U. S. DEPARTMENT OF AGRICULTURE.

WEATHER BUREAU.

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REPORT

OF THE

CHIEF OF THE WEATHER BUREAU.

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[CONCURRENT RESOLUTION—MAY 25, 1894.]

Resolved by the House of Representatives (the Senate concurring), That there be printed 5,500 copies of the Annual Report of the Chief of the Weather Bureau for the year ending December 31, 1893, of which 1,000 copies shall be for the use of the Senate, 2,000 copies for the use of the House, and 2,500 copies for the use of the Bureau.

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REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ADVERTISEMENT.

This, the second volume of meteorological data published by the Weather Bureau, contains the results of observations made during 1893, and, as a special contribution, the records in detail of temperature, pressure, and wind at Pikes Peak and Colorado Springs, Colo. (*See* Part VI.)

The detailed twice-daily meteorological observations for the year have been published on the daily weather maps. It is impracticable to reproduce them here. Other publications of the Bureau, containing the results of meteorological observations, are the Monthly Weather Review and the Weekly Weather-Crop Bulletin.

The tables throughout the volume have been prepared in the Division of Records and Meteorological Data, Mr. A. J. Henry, acting chief.

The following publications have been issued by the Weather Bureau up to and including December 31, 1893:

ANNUAL VOLUMES.

Report of the Chief of the Weather Bureau, 1891–'92. Results of meteorological observations in the United States during 1891 and 1892 and other miscellaneous reports and tables.

BULLETINS OF THE WEATHER BUREAU.

No. 1.—Notes on the climate and meteorology of Death Valley, California, by Mark W. Harrington, Chief of the Weather Bureau. June, 1892. (Octavo) 50 pp.

No. 2.—Notes on a new method for the discussion of magnetic observations, by Frank H. Bigelow, Professor of Meteorology. July, 1892. (Octavo) 41 pp.

No. 3.—A report on the relations of soil to climate, by E. W. Hilgard, Professor of Agriculture and Agricultural Chemistry, University of California. July, 1892. (Octavo) 59 pp.

No. 4.—Some physical properties of soils in their relation to moisture and crop distribution, by Milton Whitney, Professor of Geology and Soil Physics, Maryland Agricultural College; Physicist, Maryland Agricultural Experiment Station; Fellow by Courtesy, Johns Hopkins University. August, 1892. (Octavo) 90 pp.

No. 5.—Observations and experiments on the fluctuations in the level and rate of movement of ground-water on the Wisconsin Agricultural Experiment Station farm and at Whitewater, Wis., by Franklin H. King, Professor of Agricultural Physics, University of Wisconsin; Physicist, Wisconsin Agricultural Experiment Station. December, 1892. (Octavo) 75 pp.

No. 6.—The diurnal variation of barometric pressure, by Frank N. Cole, PH. D., Assistant Professor of Mathematics, University of Michigan. December, 1892. (Octavo) 32 pp.

No. 7.—Report of the first annual meeting of the American Association of State Weather Services. [Coöperating with the Weather Bureau, U. S. Department of Agriculture.] February, 1893. (Octavo) 49 pp.

No. 8.—Report on the climatology of the cotton plant, by P. H. Mell, PH. D., Professor of Geology and Botany in Alabama Polytechnic Institute; Director Alabama Weather Service. April, 1893. (Octavo) 68 pp.

No. 9.—Report on the forecasting of thunderstorms during the summer of 1892, by N. B. Conger, Inspector, Weather Bureau. May, 1893. (Octavo) 54 pp.

No. 10.—The climate of Chicago, by Henry A. Hazen, Professor of Meteorology.

No. 11.—Report of the International Meteorological Congress held at Chicago, Ill., August 21–24, 1893.

A. Summary of international meteorological observations, by H. H. C. Dunwoody, Major, Signal Corps, U. S. Army, Assigned as Assistant Chief of the Weather Bureau.

B. Currents of the Great Lakes, by Mark W. Harrington, Chief of the Weather Bureau.

MARK W. HARRINGTON,
Chief of Weather Bureau.

PART I.

LIST OF OBSERVING STATIONS.
DESCRIPTION OF INSTRUMENTS.
INSTRUMENTAL CORRECTIONS—METHODS OF REDUCTION; RESULTING ACCURACY.

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LIST OF OBSERVING STATIONS.

The following table contains the geographical coördinates of the several stations whose summaries are published in Part III, the height of the barometer cistern above mean sea level, and of other instruments above ground, the difference between local and standard time, and the date on which observations began. The standard time used by the Weather Bureau in all of its synchronous work is that of the seventy-fifth meridian (Eastern time), which standard is always understood unless otherwise expressed.

The elevations given are for January 1, 1893, except at stations established subsequent to that date. (See Table II.) Elevations preceded by the letter "B" have been determined by the barometer; all others are the results of precise levels. Changes made during 1893 are given in the second or third set of figures, as the case may be.

The significance of the bold face letter or letters following the name of station is as follows:

P=continuous records of pressure (on December 31, 1893);

T=continuous records of temperature (on December 31, 1893);

W=continuous records of wind (direction and velocity) (on December 31, 1893);

V=continuous records of wind (velocity only) (on December 31, 1893);

R=continuous records of rainfall (on December 31, 1893);

S=continuous records of sunshine (on December 31, 1893);

Stations having no letter make an observation of temperature, precipitation, direction of the wind, and the state of the weather daily at 8 p. m.

TABLE I.—LATITUDE, LONGITUDE, ELEVATION, ETC., OF WEATHER BUREAU STATIONS.

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation January 1, 1893.				Observations began.	Date of changes in elevation.
				Barometer above sea.	Thermometer above ground.	Rain gauge above ground.	Anemometer above ground.		
	° ′	° ′	h. m.	*Feet.*	*Feet.*	*Feet.*	*Feet.*		
Abilene, **P T W**	32 23	99 40	1 39 S.	1,748	64	53	70	Sept. 14, 1885	
Albany, **P T W**	42 39	73 45	05 F.	85	84	99	113	Dec. 22, 1873	
Alpena, **P T W**	45 05	83 30	34 S.	609	61	54	71	Sept. 10, 1872	
Amarillo, **T V**	35 13	101 50	1 47 S.	3,691	53	46	61	Jan. 1, 1892	
Astoria	46 57	124 00	3 15 S.	41	39	56	60	Nov. 1, 1883	
Atlanta, **P T W R**	33 45	84 23	37 S.	1,131	92	85	123	Sept. 25, 1878	
Atlantic City, **V**	39 22	74 25	03 F.	53	68	57	76	Dec. 10, 1873	
Augusta, **P T W**	33 28	81 54	27 S.	209	89	54	103	Nov. 2, 1870	
Baker City, **T V**	44 50	117 50	2 51 S.	3,430	49	38	53	July 9, 1889	
Baltimore, **P T W**	39 18	76 37	06 S.	179	87	80	100	Jan. 1, 1871	
Bismarck, **P T W R**	46 47	100 38	1 42 S.	1,698	59	52	69	Sept. 15, 1874	
Block Island, **V**	41 10	71 36	14 F.	27	39	3	48	Sept. 1, 1880	
Boston, **P T W R S**	42 21	71 04	16 F.	126	115	154	182	Nov. 1, 1870	
Buffalo, **P T W R S**	42 53	78 53	15 S.	690	103	93	108	Nov. 1, 1870	
Buford, Fort, **T V**	48 00	103 56	1 56 S.	1,899	17	2	27	Jan. 13, 1879	Closed Nov. 16, 1893.
Cairo, **V**	37 00	89 10	56 S.	359	87	78	93	June 1, 1871	
Canby, Fort, **V**	46 16	124 04	3 16 S.	179	10	2	34	Sept. 1, 1883	
Cape Henry, **V**	36 56	76 00	04 S.	.....	5	6	34	Dec. 15, 1873	
Carson City, **V**	39 08	119 47	2 59 S.	4,720	44	42	.....	Dec. 1, 1887	
Charleston, **V**	32 47	79 56	20 S.	52	60	55	72	Jan. 5, 1871	

TABLE I.—LATITUDE, LONGITUDE, ELEVATION, ETC., OF WEATHER BUREAU STATIONS—Continued.

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation January 1, 1893. Barometer above sea.	Thermometer above ground.	Rain gauge above ground.	Anemometer above ground.	Observations began.	Date of changes in elevation.
	° ′	° ′	h. m.	Feet.	Feet.	Feet.	Feet.		
Charlotte, T V	35 13	80 51	23 S.	773	†68	†59	†76	Oct. 6, 1878	
Chattanooga, V	35 04	85 15	41 S.	*772	71	60	76	Sept. 12, 1875	
				762	106	97	112	.....	July 1, 1893.
Cheboygan, V	45 39	84 29	38 S.	591	45	38	55	May 1, 1892	Closed Aug. 31, 1893.
Cheyenne, T V	41 08	104 48	1 59 S.	6,105	58	50	60	Nov. 1, 1870	
Chicago, P T W R	41 53	87 37	50 S.	824	241	238	274	....do	
Cincinnati, P T W R S	39 06	84 30	38 S.	628	153	145	157	....do	
Cleveland, P T W R S	41 30	81 42	27 S.	740	122	109	130	....do.....	
Colorado Springs, P T W	38 50	104 49	1 59 S.	6,098	49	42	56	Nov. 12, 1873	
Columbia, Mo., V	38 58	92 14	1 09 S.	789	4	2	41	Aug. 21, 1889	
Columbia, S. C	34 00	81 03	24 S.	.....	72	63	.....	June 5, 1887	
Columbus, P T W	39 58	83 00	32 S.	837	94	76	100	July 1, 1878	Feb. 1, 1893.
				868	126	120	132	.....	
Concordia, V	39 35	97 41	1 31 S.	1,410	42	34	47	May 1, 1885	
Corpus Christi, V	27 49	97 25	1 30 S.	20	42	34	50	Feb. 1, 1887	
Crete	40 38	96 59	1 28 S.	1,440	9	2	0	July 12, 1887	Closed May 31, 1893.
Davenport, P T W	41 30	90 38	1 02 S.	613	100	93	110	May 24, 1871	
Denver, P T W R S	39 45	105 00	2 00 S.	5,287	108	97	120	Nov. 19, 1871	
Des Moines, P T W	41 35	93 37	1 14 S.	869	84	75	88	July 29, 1877	
Detroit, P T W R S	42 20	83 03	32 S.	724	158	144	161	Nov. 1, 1870	
Dodge City, P T W R S	37 45	100 00	1 40 S.	2,523	44	37	55	Sept. 15, 1874	
Dubuque, V	42 30	90 44	1 03 S.	651	60	50	60	July 10, 1873	
Duluth, P T W R	46 48	92 06	1 08 S.	656	70	56	71	Nov. 1, 1870	
Eastport, P T W R S	44 54	66 59	32 F.	53	51	43	56	Apr. 1, 1873	
				76	68	63	74	.....	Oct. 14, 1893.
El Paso, P T W	31 47	106 30	2 06 S.	3,796	69	62	80	Apr. 1, 1878	
Erie, V	42 07	80 05	20 S.	714	92	82	102	May 25, 1873	
Escanaba	45 48	87 05	48 S.	.....	15	2	.....	May 24, 1871	
Eureka, V	40 48	124 11	3 17 S.	64	60	52	69	Jan. 1, 1887	
Fort Smith, V T	35 22	94 24	1 17 S.	492	73	65	81	Apr. 13, 1879	
Fresno, V	36 43	119 49	2 59 S.	338	78	66	77	Aug. 18, 1887	
Galveston, P T W R S	29 18	94 50	1 19 S.	42	85	80	96	Apr. 19, 1871	
Grand Haven, V	43 05	86 13	45 S.	628	55	48	64	May 24, 1871	
Green Bay, V	44 31	88 00	52 S.	617	49	41	57	Sept. 1, 1886	
Hannibal, V	39 41	91 20	1 05 S.	534	75	68	107	Apr. 16, 1892	
Harrisburg, V	40 16	76 52	07 S.	377	94	87	102	July 1, 1888	
Hatteras, V	35 15	75 40	02 S.	11	18	2	36	Dec. 1, 1880	
Havre, P T W	48 34	109 40	2 19 S.	2,477	15	2	33	May 16, 1892	
Helena, P T W	46 34	112 04	2 28 S.	4,118	85	75	91	Apr. 1, 1880	
Huron, P T W	44 21	98 14	1 32 S.	1,310	63	56	72	July 1, 1881	
Idaho Falls, V	43 29	112 04	2 28 S.	4,742	11	1	45	June 1, 1892	
Indianapolis, P T W R	39 46	86 10	44 S.	766	75	72	87	Feb. 10, 1871	
Jacksonville, P T W R	30 20	81 39	26 S.	43	69	56	84	Sept. 11, 1871	
Jupiter, V R	26 57	80 07	20 S.	28	13	1	30	Jan. 1, 1888	
Kansas City, T W R S	39 05	94 37	1 18 S.	963	78	81	95	Apr. 21, 1873	
Kearney, V	40 41	99 05	1 36 S.	2,206	87	82	90	Mar. 18, 1892	
Keeler, P T W	36 35	117 50	2 51 S.	3,632	19	2	36	Mar. 1, 1885	
				3,622	7	2	30	.....	Nov. 1, 1893.
Keokuk, V	40 22	91 26	1 06 S.	613	64	56	72 78	July 16, 1871	Nov. 1, 1893.
Key West, P T W R	24 34	81 49	27 S.	22	41	44	50	Nov. 1, 1870	
Kitty Hawk, V	36 00	75 42	03 S.	9	12	21	30	Jan. 15, 1875	
Knoxville, P T W	35 56	83 58	36 S.	980	80	71	88	Jan. 20, 1871	
La Crosse, V	43 49	91 15	1 05 S.	720	70	61	78	Oct 15, 1872	
Lander, T	42 50	108 45	2 15 S.	5,377	16	16	34	Aug. 1, 1891	
Leavenworth, V	39 19	94 57	1 20 S.	857	95	86	100	May 24, 1871	Closed Nov. 10, 1893.
Lexington, V	38 02	84 33	38 S.	989	75	2	122	Oct. 1, 1872	Closed Sept. 30, 1893, as a paid station.
Little Rock, V	34 45	92 06	1 08 S.	302	72	62	79	Apr. 21, 1873	
Los Angeles, V	34 03	118 15	2 53 S.	330	74	66	76	July 1, 1877	

* Redetermined; old elevation 11 feet too high.

† Redetermined.

TABLE I.—LATITUDE, LONGITUDE, ELEVATION, ETC., OF WEATHER BUREAU STATIONS—Continued.

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation January 1, 1893.				Observations began.	Date of changes in elevation.
				Barometer above sea.	Thermometer above ground.	Rain gauge above ground.	Anemometer above ground.		
	° ′	° ′	h. m.	Feet.	Feet.	Feet.	Feet.		
Louisville, V	38 15	85 45	43 S.	{ 551 / 525	100 / 114	103 / 106	116 / 136	Sept 11, 1871	May 1, 1893.
Lynchburg, P T W	37 25	79 09	16 S.	685	82	76	88	May 24, 1871	
Manchester, V	42 58	71 28	14 F.	247	76	68	81	Mar. 1, 1889	Closed Nov. 10, 1893.
Manistee, P T W	44 13	86 16	45 S.	615	43	28	46	July 1, 1888	Closed Aug. 31, 1893.
Marquette, P T W R	46 34	87 24	49 S.	734	67	58	95	May 11, 1871	
Memphis, P T W R S	35 09	90 03	1 00 S.	330	108	100	116	Feb. 28, 1871	
Meridian, V	32 21	88 40	55 S.	358	68	58	72	Sept. 1, 1889	
Micco	27 53	80 33	22 S.	.....	5	2	.....	Sept. 1, 1888	Closed Nov. 28, 1893.
Miles City, V	46 25	105 49	2 03 S.	2,374	40	34	53	Oct. 1, 1891	
Milwaukee, P T W R	43 02	87 54	51 S.	673	106	100	149	Nov. 1, 1870	
Minneapolis, V	44 59	93 18	1 13 S.	.....	99	95	192	Sept. 1, 1890	
Mobile, V	30 41	88 02	52 S.	57	87	78	96	Nov. 7, 1870	
Montgomery, T V	32 23	86 18	45 S.	257	99	92	110	Nov. 9, 1870	
Montrose, T V	38 30	107 56	2 12 S.	5,795	43	34	46	Feb. 5, 1885	Closed Oct. 20, 1893.
Morehead, P T W	46 52	96 44	1 27 S.	935	54	44	60	Jan. 1, 1881	
Nantucket, P T W	41 17	70 06	20 F.	14	43	38	54	Oct. 18, 1886	
Narragansett Pier	41 19	71 17	15 F.	22	9	2	46	Sept. 12, 1882	
Nashville, P T W	36 10	86 47	47 S.	553	98	85	107	Nov. 1, 1870	
Neah Bay	48 23	124 36	3 18 S.	.....	8	6 in.	.....	Dec. 1, 1883	
New Brunswick	40 30	74 27	02 F.	.....	4	2	.....	Oct. 1, 1890	
New Haven, P T W	41 18	72 56	08 F.	107	118	110	126	Dec. 10, 1872	
New London, V	41 21	72 05	12 F.	45	50	42	54	Jan. 10, 1871	
New Orleans, P T W R S	29 58	90 04	1 00 S.	54	112	111	120	Nov. 1, 1870	
New York City, P T W R	40 43	74 00	04 F.	185	183	155	200	.....do	
Norfolk, P T W R	36 51	76 17	05 S.	57	88	80	93	Jan. 1, 1871	
Northfield, V	44 10	72 41	09 F.	872	15	2	59	Mar. 1, 1887	
North Platte, T V	41 08	100 45	1 43 S.	2,841	45	34	52	Sept. 18, 1874	
Oklahoma City, V	35 26	97 33	1 30 S.	1,239	54	45	53	Nov. 1, 1890	
Olympia, P T W	47 03	122 53	3 11 S.	52	56	51	67	July 1, 1877	
Omaha, P T W R	41 16	95 56	1 24 S.	1,123	88	76	90	Nov. 1, 1870	
Oswego, V	43 29	76 35	06 S.	335	76	83	87	.....do	
Palestine, V	31 45	95 40	1 22 S.	511	42	43	51	Dec. 3, 1881	
Parkersburg, T V	39 16	81 36	26 S.	638	77	69	84	July 1, 1888	
Pensacola, V	30 25	87 13	49 S.	56	78	79	90	Oct. 27, 1879	
Philadelphia, P T W R S	39 57	75 09	00 S.	117	168	166	184	Jan. 1, 1871	
Pierre, V	44 24	100 17	1 41 S.	1,470	50	47	*58	July 1, 1891	
Pikes Peak, P T W	38 50	105 02	2 01 S.	14,134	9	3	25	Nov. 1, 1873	Clos'd Sept. 30, 1888; reopened Sept, 1892.
Pittsburg, P T W R	40 32	80 02	20 S.	820	115	{ 107 / 101	123	Nov. 1, 1870	Mar. 24, 1893.
Point Reyes Light, V	38 11	122 51	3 11 S.	.....	12	1	60	Mar. 1, 1889	
Port Angeles, V	48 07	123 06	3 14 S.	29	47	35	59	Nov. 1, 1883	
Port Huron, V	43 00	82 26	30 S.	639	70	63	108	July 25, 1874	
Portland, Me., V	43 39	70 15	19 F.	103	81	{ 75 / 71	{ 89 / 87	Jan. 15, 1871	May 22, 1893.
Portland, Oreg., P T W R S	45 32	122 43	3 11 S.	157	200	196	209	Nov. 1, 1870	
Pueblo, V	38 18	104 36	1 58 S.	4,734	74	65	81	July 1, 1888	
Raleigh, V	35 45	78 37	14 S.	388	70	2	80	Apr. 1, 1884	
Rapid City, T V	44 04	103 12	1 53 S.	3,280	53	46	61	Jan. 24, 1881	
Red Bluff, T V	40 10	122 15	3 09 S.	342	54	44	58	July 1, 1877	
Red Wing, V	44 34	92 38	1 10 S.	758	63	55	71	Oct. 19, 1890	Closed Aug. 31, 1893.
Rochester, P T W	43 08	77 42	11 S.	523	81	81	90	Nov. 1, 1870	
Roseburg, T V	43 13	123 20	3 13 S.	523	57	47	67	July 15, 1877	
Sacramento, V	38 35	121 30	3 06 S.	64	61	57	70	July 1, 1877	
St Louis, P T W R S	38 38	90 12	1 01 S.	571	110	100	210	Nov. 1, 1870	
St. Paul, P T W R	44 58	93 03	1 12 S.	850	114	108	120	.....do	

* Elevated 4 feet Nov. 18, 1893.

TABLE I.—LATITUDE, LONGITUDE, ELEVATION, ETC., OF WEATHER BUREAU STATIONS—Continued.

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation January 1, 1893.				Observations began.	Date of changes in elevation.
				Barometer above sea.	Thermometer above ground.	Rain gauge above ground.	Anemometer above ground.		
	° ′	° ′	h. m.	Feet.	Feet.	Feet.	Feet.		
St. Vincent, V	48 56	97 14	1 29 S.	805	8	6	24	Sept. 5, 1880	Dec. 8, 1893.
				804	16	4	31		
Salt Lake, P T W R S	40 46	111 54	2 27 S.	4,345	83	75	90	Mar. 19, 1874	
San Antonio, V	29 27	98 28	1 34 S.	679	66	60	75	Jan. 2, 1876	
San Diego, P T W R S	32 43	117 10	2 49 S.	93	73	66	85	Nov. 1, 1875	
Sandusky, V	41 25	82 40	30 S.	629	62	65	74	Aug. 2, 1877	
San Francisco, P T W R S	37 48	122 26	3 10 S.	153	161	154	167	Feb. 2, 1871	
Santa Fe, P T W S	35 41	105 57	2 04 S.	7,059	59	52	60	Nov. 20, 1871	Mar. 1, 1893.
				7,051	47	39	50		
Sault Ste. Marie, P T W	46 28	84 22	37 S.	642	56	48	65	Aug. 5, 1877	
Savannah, P T W R S	32 05	81 05	24 S.	98	63	55	86	Jan. 1, 1871	
Seattle, P T W	47 38	122 20	3 9 S.	119	100	94	108	May 1, 1893	
Shreveport, T V	32 30	93 40	1 14 S.	249	77	76	84	Sept. 3, 1871	
Sioux City, V	42 29	96 24	1 26 S.	1,165	96	92	109	Dec. 1, 1887	
Southport, V	33 35	78 01	12 S.	34	11	3	46	Sept. 27, 1875	
Spokane, P T W R	47 40	117 25	2 49 S.	1,930	90	90	107	Feb. 1, 1881	
Springfield, Ill., V	39 48	89 39	58 S.	644	82	60	85	July 1, 1879	
Springfield, Mo., V	37 12	93 18	1 13 S.	1,356	77	74	90	June 3, 1882	
Stanton, Fort, V	33 30	105 26	2 02 S.	B 6,150	17	2	27	Jan. 1, 1884	Closed Nov. 10, 1893.
Tampa, P T W R	27 57	82 27	30 S.	36	60	52	68	Mar. 13, 1890	
Tatoosh Island, V	48 23	124 44	3 19 S.	86	12	1	33	Oct. 1, 1883	
Titusville, T V	28 34	80 51	23 S.	44	15	1	72	June 10, 1887	
Toledo, P T W	41 40	83 34	34 S.	674	122	113	127	Nov. 1, 1870	
Topeka	39 03	95 41	1 23 S.	998	81	73	89	June 1, 1887	
Tucson, T P V S	32 14	110 53	2 24 S.	2,432	15	4	45	Oct. 30, 1875	
University	34 20	89 27	58 S.	463	6	6	.....	June 1, 1887	Closed Jan. 31, 1893.
Valentine, V	42 50	100 32	1 42 S.	2,613	37	26	38	Sept. 1, 1885	
Vicksburg, T V	32 22	90 53	1 03 S.	254	65	58	73	Sept. 10, 1871	
Vineyard Haven, V	41 26	70 43	17 F.	.....	20	47	55	Oct. 1, 1891	
Walla Walla, V	46 02	118 20	2 53 S.	1,018	65	56	73	Dec. 1, 1885	
Washington City, P T W R S.	38 54	77 03	08 S.	112	59	42	67	Nov. 1, 1870	
Wichita, V	37 41	97 20	1 29 S.	1,366	78	71	85	July 1, 1888	
Williston, T V	48 9	103 35	1 54 S.	1,874	15	3	28	Nov. 24, 1893	
Wilmington, P T W R	34 14	77 57	12 S.	78	82	76	88	Jan. 1, 1871	
Winnemucca, T V	40 58	117 43	2 51 S.	4,340	59	54	69	July 1, 1877	
Woods Holl, V	41 33	70 40	17 F.	22	51	39	57	Jan. 1, 1873	
Yankton, V	42 54	97 28	1 30 S.	1,232	51	43	57	Apr. 1, 1873	
Yuma, P T W	32 45	114 36	2 38 S.	141	16	2	50	Oct. 4, 1875	

TABLE II.—CHANGES IN WEATHER BUREAU STATIONS DURING 1893.

ESTABLISHED.

Stations.	Latitude.	Longitude.	Date of establishment.	Remarks.
SECOND ORDER.	° ′	° ′		
Clemson College (Fort Hill, S. C.)	34 42	82 41	Apr. 10, 1893	
Seattle, Wash.	47 38	122 20	May 1, 1893	
Williston, N. Dak	48 09	103 35	Nov. 23, 1893	By transfer from Fort Buford.
SPECIAL RIVER.				
Bagnell, Mo	38 14	92 37	Dec. 1, 1893	Observations not yet begun.
Conway, S. C	33 52	79 00	....do	
Dublin, Ga	32 30	82 51	....do	
Edisto, S. C	33 15	80 52	....do	Do.
Elwood Junction, Pa	40 52	80 22	....do	
Fair Bluff, N. C	34 22	79 00	....do	Do.
Kingstree, S. C	33 43	79 45	....do	Do.
North McGregor, Iowa	43 00	91 15	Nov. 16, 1893	
Red Wing, Minn	44 32	92 35	Oct. 8, 1893	
Reeds Landing, Minn	44 22	92 08	Nov. 16, 1893	Do.
Wittsburg, Ark	35 15	90 40	(*)	
SPECIAL RAINFALL.				
Coronaca, S. C	34 18	82 06	June 1, 1893	Do.
Clemson College, S. C.	34 42	82 41	Oct. 1, 1893	
Gaffney City, S. C.	35 04	81 45	Nov. 16, 1893	Do.
Salem, Va	37 19	80 04	Sept. 16, 1893	
Salisbury, N. C.	35 57	80 30	Nov. 16, 1893	
COTTON REGION.				
Youngs Island, S. C	32 41	80 11	Apr. 16, 1893	
Yazoo City, Miss	32 51	90 22	Sept. 1, 1893	

STATIONS DISCONTINUED.

Stations.	Latitude.	Longitude.	Date of discontinuance.	Remarks.
SECOND ORDER.	° ′	° ′		
Buford, Fort, N. Dak	48 00	103 56	Nov. 16, 1893	
Cheboygan, Mich	45 39	84 29	Aug. 31, 1893	
Clemson College, S. C	34 42	82 41	....do	
Leavenworth, Kans	39 19	94 57	Nov. 10, 1893	
Lexington, Ky	38 02	84 33	Sept. 30, 1893	
Manistee, Mich	44 13	86 16	Aug. 31, 1893	
Manchester, N. H.	42 58	71 28	Nov. 10, 1893	
Red Wing, Minn	44 34	92 38	Aug. 31, 1893	
Stanton, Fort, N. Mex.	33 30	105 26	Nov. 7, 1893	
THIRD ORDER.				
Auburn, Ala	32 40	85 30	June 30, 1893	
Crete, Nebr	40 38	96 59	May 31, 1893	
Micco, Fla	27 53	80 33	Nov. 28, 1893	
University, Miss	34 20	89 27	Jan. 31, 1893	
SPECIAL RIVER.				
Chattahoochee Landing, Fla	30 41	84 53	Aug. 31, 1893	
Cedar Rapids, Iowa	41 57	91 39	....do	
Chester, Ill	37 56	89 50	Sept. 15, 1893	
Columbia, Va	37 46	78 09	Aug. 31, 1893	
Colusa, Cal	39 15	122 03	Dec. 31, 1893	
Colbert, Ind. T	33 52	96 21	Sept. 15, 1893	
Decatur, Ala	34 36	86 56	Aug. 31, 1893	
Frankfort, Ky.	38 11	84 51	June 15, 1893	
Folsom City, Cal	38 40	121 20	Dec. 31, 1893	
Hidalgo, Tex.	26 02	98 12	Aug. 31, 1893	

* During flood season only.

TABLE II.—CHANGES IN WEATHER BUREAU STATIONS DURING 1893—Continued.

STATIONS DISCONTINUED—Continued.

Stations.	Latitude.	Longitude.	Date of discontinuance.	Remarks.
SPECIAL RIVER—continued.	° ′	° ′		
Huntingdon, Pa.	40 32	78 04	Aug. 31, 1893	
Iowa City, Iowa	41 39	91 33	....do	
Long Bridge, D. C.	38 53	77 01	Apr. 15, 1893	
Madison, Ind.	38 44	85 24	Aug. 31, 1893	
Maysville, Ky.	38 40	83 45	....do	
Manhattan, Kans.	39 14	96 36	....do	
Mount Vernon, Ga.	32 08	82 39	Nov. 30, 1893	
Mount Holly, N. C.	35 17	81 00	Aug. 31, 1893	
Marysville, Cal.	39 12	121 32	Dec. 31, 1893	
Nichols, S. C.	34 13	79 08	....do	
Oroville, Cal.	39 32	121 31	....do	
Redding, Cal.	40 35	122 22	....do	
Shawneetown, Ill.	37 40	88 09	Aug. 31, 1893	
Tazewell, Tenn.	36 26	83 33	....do	
Tillers Ferry, S. C.	34 20	80 17	Dec. 31, 1893	
Vincennes, Ind.	38 41	87 31	Aug. 31, 1893	
Wateree, S. C.	33 52	80 37	Dec. 31, 1893	
COTTON REGION.				
Green Pond, S. C.	32 40	80 37	Mar. 22, 1893	
Rolling Fork, Miss.	32 55	90 50	Sept. 15, 1893	
Youngs Island, S. C.	32 41	80 11	Nov. 24, 1893	
SPECIAL RAINFALL.				
Culbertson, Nebr.	40 15	100 46	Feb. 28, 1893	
Huntington, Ind.	40 52	85 29	Apr. 1, 1893	
Kirwin, Kans.	39 4	99 07	Feb. 28, 1893	
Lafayette, Ind.	40 25	86 53	May 15, 1893	
New Castle, Pa.	41 01	80 24	Sept. 16, 1893	
Salina, Kans.	38 48	97 37	Feb. 28, 1893	
Springer, N. Mex.	36 22	104 31	Sept. 15, 1893	
Wallace, Kans.	38 54	101 30	Feb. 28, 1893	

DESCRIPTION OF INSTRUMENTS.

By Prof. C. F. MARVIN.

The instrumental equipment of the principal stations of the Weather Bureau is set forth in the accompanying lists:

EQUIPMENT OF INSTRUMENTS, ETC., AT SECOND-ORDER STATIONS:

Two anemometers, Robinson pattern, 4-inch cups, arms 6.72 inches.
One anemometer register, single.
Two mercurial barometers (Fortin 4-inch tube).
One glass barometer case.
One set maximum and minimum thermometers, with mountings.
One extra set maximum and minimum thermometers.
Two sets wet and dry bulb mercurial thermometers.
One whirling apparatus for wet and dry bulb thermometers.
One standard instrument shelter, about 3 feet cube, with supports.
One standard anemoscope, tail 3 feet by 10 inches.
One iron anemoscope support, with anti-friction mountings, etc.
One iron anemometer support, or parts to combine with support for anemoscope.
One 8-inch brass rain gauge, with support and measuring sticks.
One 8-inch galvanized iron snow gauge, with support. Batteries, wire, etc.

ADDITIONAL INSTRUMENTS AT FIRST-ORDER STATIONS:

One double or triple register, recording wind and rain (Weather Bureau pattern).
One set electrical contacts, and box, for anemoscope.
One sunshine recorder, photographic (Jordan—Weather Bureau pattern).
One sunshine recorder, thermometric (Marvin's).
One electrically recording rain gauge (Marvin's pattern, 1888).
One electrically recording weighing rain and snow gauge (Marvin's pattern, 1892).
One aneroid barograph (Richard Bros.).
One thermograph (Richard Bros.).
One thermograph recording electrically at a distance (Richard Bros.).

In the case of the equipment of stations of the second order no variation or departure from the above list of instruments occurs, but owing to limited supplies and other circumstances the first-order stations do not in every case have all the additional instruments cited. Thus, only a portion are supplied with sunshine recorders and the electrically recording rain-gauge, and only seven electrically recording thermographs are in use. On the other hand, about 20 stations of the second order have either thermograph or barograph, or both, in use. Again, the station at Washington has a still more complete equipment than the regular first-order stations, and the instruments in many respects are of much superior pattern.

For a description of the instruments above named, except the thermometric sunshine recorder, which is described below, the reader is referred to pages 19 to 36, Report of the Chief of the Weather Bureau, 1891-'92.

THERMOMETRIC SUNSHINE RECORDER.

The record from this instrument is produced electrically and only one intensity of sunshine is recorded. The instrument begins to record for a certain intensity of sunshine, which may differ slightly with different instruments, and continues in the same manner no matter how much more brightly or with how great a variation the sun may afterwards shine, provided the intensity at any time does not fall below the critical point.

A section of the instrument is shown in Fig. 1. The principle of its operation is essentially that of the Leslie differential thermometer. The U-shaped tube construction of that instrument, however, is modified so as to place the two bulbs *c* and *d* in the same straight line. The connecting narrow-bore tube *b* is fused to the bulb *d* so that a slender prolongation of the stem extends quite to the bottom of *d*, which is there formed into a spherical portion with a constricted neck. Two platinum electrodes, *f*, *f*, are fused into the stem *b*.

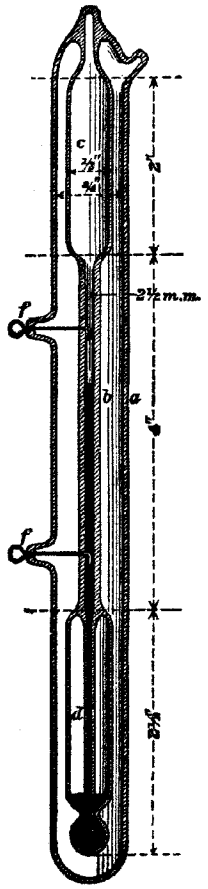

FIG. 1.—Thermometric Sunshine Recorder.

The lower bulb and a short portion of the stem above are blacked with a coating of lampblack in very thin shellac or balsam, and the whole arrangement is inclosed within an outer thin glass tube *a*, having at first an outlet at the top or one end and adapted to be perfectly exhausted and hermetically sealed.

In filling the apparatus a portion of mercury is first introduced, which being so disposed by laying the device horizontally or bottom end up as not to obstruct the passageways, the bulbs and stem are thoroughly dried internally by repeatedly exhausting and filling with artificially dried air. The walls of the glass are also heated artificially. Finally, the apparatus is cooled in a freezing mixture for the purpose of increasing the density of the contained air, and the outlet tube fused off and hermetically sealed. The vacuum within the tube *a* can be made either before or after the filling of *c* and *d*.

An improvement in the construction of the instrument, suggested recently by Mr. C. B. Tuch, of the Instrument Room, consists in adding a small quantity of alcohol with the mercury. This acts as a lubricator for the mercury in tube *b*, and its vapor plays an important part in the thermometric action of the instrument. No instruments of this kind have been used in any of the observations herein reported.

After filling, it is a simple matter, by shaking, to distribute the confined air within the bulbs, so that when in a vertical position, as shown in the figure, and when the two bulbs have been brought to sensibly the same temperature, the top of the column of mercury stands about 1 inch below the upper electrode *f*.

The instrument is exposed in an inclined position on an appropriate support. Its axis is placed approximately parallel to the axis of the earth, and in this condition the top of the column of mercury will be about 0.3 of an inch below the upper electrode as long as the temperature of the two bulbs is the same.

Under the action of sunshine the blackened bulb becomes heated, causing the mercury to ascend and pass above the upper electrode. As soon as the electric circuit is completed through the mercury column, that fact is recorded on the register, which is the so-called "Triple" register of the Weather Bureau. (*See* Annual Report, 1891–'92, p. 24, fig. 9.) The rainfall magnet *R* of this register is also made to record the sunshine, which is possible, in view of the fact that little or no rain is likely to be recorded during periods of sunshine and *vice versa*. In order that the sunshine circuit shall not be continuously closed during sunshine, a circuit maker is attached to the clock, whereby complete connection is made for a second or two only, once each minute. By this expedient sunshine is indicated on the record sheet as a succession of short lateral strokes at time intervals of one minute; cloudiness being shown by a continuous straight line. The duration

of sunshine, as indicated by this device, is thus recorded to the nearest minute. In a few instruments the record is made only each 5 minutes.

Sensitiveness.—All instruments are not strictly identical in respect to the quickness with which they respond to changes in cloudiness or sunshine. A dense cloud suddenly obscuring the sun in bright sunshine will not be recorded within three or four minutes, and *vice versa*.

The critical condition for registration to which all instruments are adjusted will be understood from the following extract from Instructions to Observers:

> The inclination of the recorder will be adjusted to such an angle that the mercury column will just close the electrical circuit during times when the disk of the sun can just be faintly seen through the clouds. If the cloudiness is such that the observer can not clearly distinguish the sun's disk, then the mercury should not rise high enough to close the electric circuit.

INSTRUMENTAL CORRECTIONS; METHODS OF REDUCTION; RESULTING ACCURACY.

For an explanation of the numerical corrections applied to the various instrumental readings and the methods of reduction employed in order to obtain the data published in this volume, the reader is referred to pp. 37–48, Report of the Chief of Weather Bureau, 1891–'92.

The method adopted in January, 1894, of tabulating the numerical values of both the thermometric and photographic sunshine recorders, not heretofore published is given below.

COMPILATION OF SUNSHINE DATA.

The automatic records of sunshine obtained from both the thermometric and the photographic recorders are tabulated in monthly forms, giving hourly amounts of sunshine, from which daily and monthly sums and percentages are calculated. The following extracts from existing instructions illustrate the manner of compensating for instrumental imperfections:

Twilight corrections.—When the sun is just above the horizon, either morning or evening, the intensity of its action is greatly diminished, even with clear skies, so that a portion of early morning and late afternoon sunshine will not generally be recorded; an allowance therefor must be made in order to ascertain more accurately the actual amount of sunshine. For convenience, this allowance will be called the "Twilight Correction." In the forenoon it will be the difference between the *time of sunrise* for the latitude of the station (as shown by table of sunrise and sunset), and the local time at which the *sunshine record commenced,* provided, the sun was not obscured by clouds or thick haze during the period. The afternoon twilight correction, similarly, will be the difference between the actual time of sunset and the time the record of sunshine stops. These corrections will be apportioned between the appropriate hours of early morning and late afternoon.

If the character of sunset is cloudy, the twilight correction will be regarded as zero, but when the observer knows that cloudiness has prevailed but a part of the time, he will employ such a value of twilight correction as will represent, in his judgment, the actual sunshine not recorded.

PART II.

HOURLY AVERAGES OF ATMOSPHERIC PRESSURE, TEMPERATURE, AND WIND FROM THE RECORDS OF SELF-RECORDING INSTRUMENTS AT TWENTY-EIGHT STATIONS.

EXPLANATION OF THE TABLES.

Pressure.—The barograph in use at the Washington station is described on page 43, Report of the Chief of the Weather Bureau, 1891–'92. The self-registers in use at the remaining stations are of the well-known manufacture of Richard Brothers, Paris.

The readings of the mercurial barometer at 8 a. m. and 8 p. m. are adopted as the standard of reference, and corrections for intermediate hours, interpolated from the known differences at 8 a. m. and 8 p. m., are applied to the curve throughout the twenty-four hours. The averages given in the tables are therefore those of the standard mercurial barometer at 8 a. m. and 8 p. m., seventy-fifth meridian time, respectively, corrected for temperature and instrumental error, and the corrected barograph readings for the remaining hours.

The corrections applied to individual hourly readings vary in magnitude. The average is about 0.02 of an inch, while in extreme cases it may be 0.06 or 0.08 of an inch, depending somewhat upon the skill of the observer in keeping the instrument in adjustment.

The hourly values are read off to the nearest hundredth of an inch, but the averages in the tables are given to thousandths of an inch, in conformity with the plan adopted in the Monthly Weather Review.

A correction for reduction to standard gravity has not been applied, but it is given at the head of each table.

The probable uncertainty in the figures here given, due to errors in reading from the barograph sheets, and any systematic error of the barograph, not wholly eliminated by the comparison at 8 a. m. and 8 p. m., is about 0.02 of an inch.

Temperature.—The mean hourly temperatures given in the tables have been deduced from thermographs of the well-known pattern manufactured by Richard Brothers, Paris, described and figured in the Report of the Chief of the Weather Bureau, 1891–'92, p. 29. These instruments are placed in the standard shelter with other thermometers, and are checked twice daily for time errors, and for agreement with the standard whirled thermometer.

In transcribing the hourly values the readings of the dry-bulb thermometer of the whirled psychrometer at 8 a. m. and 8 p. m. are adopted as the standard of reference, and these readings are given in the appropriate columns of the tables. Corrections for intermediate hours, interpolated from the known differences at 8 a. m. and 8 p. m., are applied to the curve throughout the twenty-four hours, thus making it conform as closely as practicable to the indications of the standard mercurial thermometer. The averages given in the tables are, therefore, those of the standard dry thermometer at 8 a. m. and 8 p. m., and the corrected thermograph reading for intermediate hours.

The means of the daily maxima and minima temperatures have been derived from readings of standard self-registering maximum and minimum thermometers.

In general the magnitude of the corrections applied is about 1° F., although a number of instruments accord with the standard dry thermometer within less than a degree.

As has been noted elsewhere, the greatest differences are those between the daily extremes registered by thermographs and by standard self-registering maximum and minimum thermometers, respectively.

Wind.—The arithmetical means of the hourly movements of the wind ending with the respective hours, as registered automatically by the Robinson anemometer, in conjunction with an electrical recording mechanism, described and illustrated in the Report of the Chief of the Weather Bureau, 1891–'92, p. 19, follow the temperature tables and conclude Part II of this report. No corrections have been applied to reduce the registered velocities to true velocities.

In studying the diurnal variations of wind movement, the following facts should be kept in mind. In graduating the dials of the various sizes of Robinson anemometers, it has been assumed by the makers that the centers of the cups move only one-third as fast as the wind, although numerous experiments have demonstrated that cups and arms of various proportions require different formulæ and tables of reduction even in perfectly steady motion. Prof. Marvin has further shown that for ordinary gusty winds, when the anemometer cups rapidly vary their rate of rotation, the moment of inertia of the revolving parts is a most important factor.

The instruments having the least inertia record most truly, and those having large inertia exceed these in proportion as the gusts are stronger, consequently the anemometer records are liable to be too large in the gusty winds of the daytime as compared with the more steady winds of nighttime. No correction for this inertia error has been determined, nor can be, unless we have simultaneous records with two anemometers having different moments of inertia; therefore, the apparent diurnal variations of wind velocity include a slight inertia error which is probably periodic in character between the winds of daytime and nighttime.

While we must regard the gustiness of the ordinary wind, that is, its sudden and momentary fluctuations of velocity, as highly variable, yet in practical anemometry we can not do more than make an average allowance for its effects upon an anemometer.

For the ordinary gusty winds of the free atmosphere Prof. Marvin adopts the following equation expressing the relation between the motion of the cups and the velocity of the wind at any moment:

$$\text{Log. } V = 0.509 + 0.9012 \text{ log. } v;$$

where V is velocity of wind in miles per hour and v is the linear velocity (also in miles per hour) of the cup centers. This equation applies strictly to anemometers that have 4-inch hemispherical brass cups on arms 6.72 inches long, whose revolving parts weigh about 590 grams (22 ounces) and have a moment of inertia of about 50,000 C. G. S. units.

This equation has been deduced from comparative observations in the open air of anemometers whose behavior in steady velocities on the whirling machine had been previously studied. The recognition thus given the important effects of inertia enables us to say that by applying this formula, or the following equivalent table, we partly annul the influence of the inertia of brass anemometers used by the Weather Bureau.

The following table gives the corrected velocities corresponding to observed velocities up to 90 miles per hour. The tabular values corresponding to indicated velocities greater than 60 miles per hour are uncertain, as direct experiments were not made at the higher velocity:

WIND VELOCITIES, AS INDICATED BY WEATHER BUREAU ANEMOMETER, CONVERTED TO TRUE VELOCITIES (IN MILES PER HOUR).

Indicated velocity.	0	1	2	3	4	5	6	7	8	9
0						5.1	6.0	6.9	7.8	8.7
10	9.6	10.4	11.3	12.1	12.9	13.8	14.6	15.4	16.2	17.0
20	17.8	18.6	19.4	20.2	21.0	21.8	22.6	23.4	24.2	24.9
30	25.7	26.5	27.3	28.0	28.8	29.6	30.3	31.1	31.8	32.6
40	33.3	34.1	34.8	35.6	36.3	37.1	37.8	38.5	39.3	40.0
50	40.8	41.5	42.2	43.0	43.7	44.4	45.1	45.9	46.6	47.3
60	48.0	48.7	49.4	50.2	50.9	51.6	52.3	53.0	53.8	54.5
70	55.2	55.9	56.6	57.3	58.0	58.7	59.4	60.1	60.8	61.5
80	62.2	62.9	63.6	64.3	65.0	65.8	66.4	67.1	67.8	68.5
90	69.2									

The maximum velocity in miles per hour for a five-minute period for each month is given in the column headed "Max. vel."

A summary of wind direction is given on the right of the tables of average velocity. The entries under the several headings "N.," "NE.," etc., represent the number of hours during the month that the wind blew from the points indicated at the top of the columns. In tabulating these data from the original instrumental register sheets but one direction for each hour—that which prevailed the longest—was taken off, although two or more directions may have been registered during the hour.

References: H = Height of barometer above sea level.
h_t = Height of thermometer above ground.
h_s = Height of anemometer cups above ground.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME.

BISMARCK, N. DAK.

[λ=46° 47′ N.; ϕ=100° 38′ W.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	27.177	.171	.175	.177	.179	.176	.176	.182	.189	.197	.204	.209	.197
Feb	27.234	.229	.224	.219	.211	.213	.214	.212	.219	.224	.227	.224	.219
Mar	27.195	.192	.187	.182	.179	.181	.185	.191	.194	.196	.194	.191	.183
Apr	27.100	.099	.092	.089	.085	.085	.087	.093	.096	.094	.092	.087	.075
May	27.113	.111	.106	.107	.107	.111	.116	.116	.116	.112	.107	.102	.094
June ...	27.053	.051	.048	.040	.043	.047	.053	.048	.048	.047	.048	.045	.043
July....	27.140	.136	.134	.139	.141	.150	.154	.155	.150	.148	.147	.148	.141
Aug	27.150	.151	.152	.154	.155	.159	.166	.170	.168	.164	.158	.153	.139
Sept....	27.080	.084	.084	.083	.088	.090	.099	.105	.104	.106	.102	.093	.078
Oct.....	27.118	.117	.122	.121	.125	.132	.137	.140	.146	.151	.146	.138	.123
Nov	27.158	.157	.155	.155	.154	.157	.163	.168	.171	.173	.173	.170	.156
Dec	27.203	.202	.202	.207	.207	.205	.209	.215	.217	.223	.225	.231	.222
Year ...	27.143	.142	.140	.139	.140	.142	.147	.150	.152	.153	.152	.149	.139

BOSTON, MASS.

[λ=42° 21′ N.; ϕ=71° 4′ W.]

Jan	29.764	.772	.776	.771	.772	.778	.789	.801	.805	.803	.789	.766	.751
Feb	29.936	.935	.926	.923	.920	.924	.935	.943	.939	.933	.929	.915	.898
Mar	29.890	.886	.881	.883	.882	.888	.900	.903	.904	.899	.892	.888	.877
Apr	29.915	.913	.912	.918	.923	.937	.948	.949	.949	.944	.935	.921	.913
May....	29.746	.746	.742	.745	.756	.762	.764	.764	.761	.757	.754	.745	.737
June ...	29.885	.881	.883	.887	.893	.901	.907	.906	.905	.904	.900	.896	.887
July ...	29.788	.785	.784	.788	.793	.800	.808	.809	.807	.805	.799	.791	.781
Aug	29.837	.836	.834	.838	.848	.853	.856	.853	.850	.846	.838	.831	.820
Sept....	29.892	.888	.887	.890	.897	.905	.908	.911	.906	.900	.890	.881	.863
Oct	29.960	.954	.952	.954	.959	.967	.979	.983	.980	.977	.964	.950	.939
Nov	29.955	.955	.947	.947	.948	.950	.957	.962	.957	.953	.936	.919	.908
Dec	29.926	.931	.927	.928	.935	.943	.950	.957	.962	.963	.943	.923	.909
Year ...	29.874	.874	.871	.873	.877	.884	.892	.895	.894	.890	.881	.869	.857

BUFFALO, N. Y.

[λ=42° 53′ N.; ϕ=78° 53′ W.]

Jan	29.142	.144	.148	.144	.141	.140	.151	.160	.171	.174	.172	.159	.142
Feb	29.305	.301	.300	.299	.302	.311	.320	.333	.339	.340	.342	.338	.320
Mar	29.270	.263	.252	.248	.248	.250	.259	.273	.278	.281	.279	.282	.276
Apr	29.226	.217	.213	.209	.209	.216	.225	.230	.230	.231	.229	.224	.221
May....	29.108	.103	.103	.101	.105	.112	.121	.126	.125	.124	.123	.121	.115
June ...	29.230	.228	.226	.226	.232	.243	.255	.260	.260	.258	.257	.255	.248
July....	29.225	.222	.217	.219	.225	.230	.237	.239	.238	.242	.237	.234	.225
Aug	29.257	.250	.248	.249	.253	.261	.267	.279	.283	.286	.284	.283	.276
Sept ...	29.269	.264	.266	.268	.275	.281	.285	.290	.291	.288	.284	.279	.270
Oct	29.275	.274	.268	.272	.279	.288	.299	.309	.314	.313	.312	.304	.289
Nov	29.268	.270	.271	.271	.278	.281	.287	.293	.298	.297	.289	.275	.264
Dec	29.292	.294	.298	.287	.287	.292	.300	.309	.317	.326	.322	.305	.290
Year ...	29.239	.236	.234	.233	.236	.242	.251	.258	.262	.263	.261	.255	.245

CHICAGO, ILL.

[λ = 41° 53′ N.; ϕ = 87° 37′ W.]

Jan	29.069	.068	.070	.069	.062	.058	.065	.077	.084	.089	.091	.083	.067
Feb	29.185	.184	.188	.179	.184	.186	.186	.191	.194	.194	.196	.199	.184
Mar	29.126	.126	.115	.113	.115	.115	.121	.126	.130	.134	.138	.135	.122
Apr	29.000	.994	.990	.984	.985	.993	.005	.011	.012	.018	.021	.016	.008
May....	29.042	.033	.030	.028	.031	.037	.039	.042	.049	.050	.055	.053	.047
June ...	29.094	.091	.092	.093	.098	.111	.118	.124	.126	.123	.122	.116	.108
July....	29.113	.113	.113	.114	.120	.121	.127	.133	.137	.140	.143	.141	.135
Aug	29.148	.146	.145	.145	.146	.153	.159	.163	.168	.173	.171	.167	.159
Sept....	29.123	.120	.116	.119	.122	.130	.140	.141	.147	.149	.147	.140	.128
Oct	29.115	.118	.114	.111	.116	.119	.125	.134	.139	.138	.139	.134	.123
Nov	29.134	.128	.131	.125	.123	.126	.128	.138	.142	.141	.139	.130	.111
Dec	29.175	.173	.176	.174	.165	.163	.169	.173	.176	.186	.190	.180	.164
Year ...	29.110	.108	.107	.104	.106	.109	.115	.121	.125	.128	.129	.124	.113

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME.

BISMARCK, N. DAK.

[H=1,681 ft.; gravity correction, 0; local time, 1h 42m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
.185	.174	.178	.181	.184	.191	.196	.196	.196	.196	.196	.187	.351	.016	Jan.
.210	.199	.196	.201	.207	.211	.217	.220	.221	.218	.218	.216	.348	.092	Feb.
.176	.165	.164	.166	.172	.179	.184	.189	.193	.197	.195	.185	.297	.069	Mar.
.066	.059	.051	.050	.058	.065	.078	.093	.104	.106	.104	.084	.226	.973	Apr.
.085	.080	.072	.071	.072	.075	.080	.088	.098	.103	.103	.098	.188	.005	May.
.037	.031	.026	.025	.023	.027	.031	.036	.049	.057	.060	.042	.126	.969	June.
.131	.121	.115	.109	.104	.104	.102	.110	.124	.129	.138	.132	.208	.054	July.
.127	.114	.100	.092	.088	.089	.095	.111	.126	.138	.144	.136	.228	.041	Aug.
.058	.040	.028	.019	.019	.019	.024	.041	.046	.055	.060	.067	.193	.936	Sept.
.108	.094	.092	.093	.095	.102	.110	.116	.118	.122	.123	.120	.250	.990	Oct.
.143	.132	.132	.142	.152	.166	.171	.174	.175	.175	.176	.160	.283	.050	Nov.
.205	.189	.178	.182	.184	.187	.188	.186	.185	.181	.182	.201	.362	.041	Dec.
.128	.116	.111	.111	.113	.118	.123	.130	.136	.140	.142	.136	.255	.020	Year.

BOSTON, MASS.

[H=125 ft.; gravity correction, —.01; local time, 0h 16m fast.]

.747	.752	.755	.761	.772	.776	.776	.777	.778	.781	.776	.775	.908	.618	Jan.
.890	.890	.896	.904	.914	.924	.923	.931	.934	.931	.930	.922	.129	.715	Feb.
.867	.863	.862	.868	.879	.886	.892	.896	.898	.897	.893	.886	.025	.738	Mar.
.904	.884	.886	.892	.893	.902	.918	.929	.933	.929	.931	.919	.064	.759	Apr.
.732	.727	.725	.728	.734	.743	.752	.763	.760	.762	.756	.748	.851	.644	May.
.880	.873	.868	.865	.869	.875	.878	.886	.887	.885	.882	.887	.948	.820	June.
.776	.769	.766	.764	.770	.775	.779	.788	.792	.787	.783	.787	.868	.705	July.
.810	.801	.802	.805	.812	.820	.832	.839	.842	.847	.849	.833	.917	.743	Aug.
.854	.847	.846	.851	.855	.867	.873	.879	.878	.880	.881	.850	.973	.778	Sept.
.935	.936	.938	.948	.955	.965	.975	.979	.980	.979	.980	.962	.063	.861	Oct.
.905	.911	.916	.931	.938	.942	.946	.949	.949	.950	.945	.951	.069	.819	Nov.
.901	.908	.913	.915	.930	.928	.937	.938	.940	.940	.938	.932	.115	.729	Dec.
.850	.847	.848	.853	.860	.867	.873	.880	.881	.881	.879	.870	.994	.744	Year.

BUFFALO, N. Y.

[H=690 ft.; gravity correction, 0; local time, 0h 15m slow.]

.132	.132	.134	.136	.142	.146	.148	.148	.147	.148	.147	.148	.284	.003	Jan.
.305	.295	.291	.285	.287	.294	.302	.308	.312	.313	.313	.311	.507	.077	Feb.
.265	.257	.253	.253	.257	.261	.267	.270	.265	.262	.256	.264	.395	.119	Mar.
.214	.208	.208	.217	.226	.233	.244	.252	.250	.251	.247	.226	.366	.102	Apr.
.112	.104	.100	.096	.099	.108	.105	.113	.116	.115	.117	.111	.210	.010	May.
.240	.229	.221	.219	.214	.217	.221	.229	.237	.236	.235	.237	.311	.162	June.
.215	.209	.202	.198	.198	.200	.202	.211	.216	.218	.219	.220	.293	.143	July.
.267	.257	.255	.255	.253	.257	.266	.271	.272	.271	.271	.266	.327	.192	Aug.
.262	.257	.255	.258	.261	.269	.275	.277	.276	.274	.272	.273	.354	.183	Sept.
.282	.278	.277	.280	.284	.290	.294	.295	.293	.288	.283	.289	.399	.152	Oct.
.255	.254	.254	.257	.262	.266	.268	.265	.263	.263	.263	.271	.380	.144	Nov.
.284	.284	.294	.298	.303	.310	.312	.311	.308	.310	.308	.302	.476	.117	Dec.
.236	.230	.229	.229	.232	.238	.242	.246	.246	.246	.244	.243	.330	.093	Year.

CHICAGO, ILL.

[H=824 ft.; gravity correction, —.01; local time, 50m slow.]

.050	.046	.047	.053	.059	.066	.074	.074	.075	.073	.074	.068	.199	.921	Jan.
.174	.170	.174	.176	.181	.186	.191	.181	.194	.194	.192	.186	.364	.990	Feb.
.113	.102	.095	.095	.095	.098	.098	.104	.107	.111	.107	.114	.260	.957	Mar.
.001	.994	.987	.986	.991	.995	.001	.016	.021	.021	.020	.003	.151	.845	Apr.
.040	.035	.029	.026	.025	.027	.025	.035	.041	.045	.042	.038	.124	.958	May.
.100	.088	.084	.076	.073	.077	.079	.090	.098	.100	.103	.099	.158	.031	June.
.128	.119	.108	.100	.099	.098	.094	.104	.112	.112	.115	.118	.182	.052	July.
.150	.141	.136	.130	.127	.128	.134	.135	.151	.152	.153	.150	.200	.091	Aug.
.112	.100	.096	.093	.092	.095	.104	.113	.117	.118	.117	.120	.196	.033	Sept.
.111	.105	.102	.100	.105	.114	.116	.123	.123	.122	.116	.119	.211	.021	Oct.
.102	.098	.106	.109	.120	.129	.134	.138	.141	.142	.143	.127	.236	.036	Nov.
.151	.150	.155	.161	.165	.173	.178	.183	.185	.188	.189	.173	.336	.015	Dec.
.103	.096	.093	.092	.094	.099	.102	.109	.114	.115	.114	.110	.218	.996	Year.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

CINCINNATI, OHIO.

[λ=39° 6′ N.; φ=84° 30′ W.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.338	.338	.344	.335	.325	.323	.332	.341	.348	.353	.354	.339	.315
Feb	29.451	.450	.452	.450	.453	.457	.461	.469	.478	.480	.478	.467	.444
Mar	29.394	.393	.387	.386	.391	.400	.411	.415	.421	.421	.416	.409	.393
Apr	29.288	.282	.280	.280	.277	.289	.306	.313	.313	.319	.319	.314	.302
May	29.265	.261	.263	.263	.271	.278	.285	.287	.292	.292	.290	.281	.273
June ...	29.327	.324	.323	.327	.335	.350	.357	.363	.364	.362	.360	.354	.339
July	29.347	.345	.347	.351	.359	.369	.379	.382	.383	.380	.377	.370	.356
Aug	29.331	.332	.335	.337	.345	.358	.367	.372	.375	.375	.372	.362	.347
Sept....	29.360	.358	.358	.357	.369	.378	.389	.394	.400	.401	.398	.388	.368
Oct.....	29.395	.398	.398	.400	.405	.412	.419	.428	.437	.437	.434	.425	.409
Nov	29.433	.430	.436	.434	.436	.439	.444	.450	.458	.460	.462	.450	.426
Dec	29.474	.472	.479	.481	.481	.491	.505	.511	.519	.528	.533	.520	.495
Year ...	29.367	.365	.367	.367	.371	.379	.388	.394	.399	.401	.399	.390	.372

CLEVELAND, OHIO.

[λ=41° 30′ N.; φ=81°.42′ W.]

Jan	29.129	.133	.140	.139	.137	.135	.141	.147	.152	.160	.158	.145	.124
Feb	29.286	.290	.295	.297	.304	.312	.314	.314	.318	.314	.308	.299	.279
Mar	29.233	.232	.232	.230	.230	.231	.239	.245	.251	.253	.252	.245	.233
Apr	29.163	.158	.149	.152	.155	.162	.171	.180	.176	.176	.171	.167	.163
May	29.106	.104	.104	.105	.109	.120	.130	.134	.131	.128	.125	.123	.117
June ...	29.196	.193	.191	.198	.207	.221	.233	.239	.239	.239	.236	.231	.221
July	29.206	.206	.207	.208	.214	.224	.233	.237	.239	.236	.232	.229	.218
Aug	29.214	.209	.207	.212	.217	.229	.241	.250	.254	.257	.257	.251	.244
Sept....	29.229	.228	.224	.228	.232	.242	.248	.253	.256	.258	.257	.247	.240
Oct.....	29.232	.235	.235	.240	.248	.256	.263	.276	.281	.278	.275	.268	.252
Nov	29.238	.242	.249	.251	.254	.255	.260	.267	.271	.271	.266	.249	.231
Dec	29.266	.268	.279	.283	.283	.288	.299	.303	.306	.316	.315	.297	.281
Year ...	29.208	.208	.209	.212	.216	.223	.231	.237	.240	.240	.238	.229	.217

DETROIT, MICH.

[λ=42° 20′ N.; φ=83° 3′ W.]

Jan	29.143	.147	.149	.143	.135	.132	.137	.145	.154	.160	.159	.146	.125
Feb	29.300	.299	.298	.297	.301	.306	.305	.314	.317	.317	.316	.301	.281
Mar	29.233	.232	.228	.227	.229	.235	.244	.249	.253	.255	.256	.248	.238
Apr	29.158	.150	.144	.145	.145	.151	.160	.167	.167	.168	.172	.165	.164
May	29.116	.111	.108	.108	.113	.122	.127	.131	.132	.129	.127	.125	.118
June ...	29.202	.201	.204	.205	.211	.222	.230	.239	.240	.239	.235	.230	.220
July	29.217	.213	.213	.214	.221	.226	.233	.239	.238	.236	.233	.227	.223
Aug	29.234	.231	.232	.235	.241	.251	.260	.268	.272	.271	.270	.264	.253
Sept....	29.235	.234	.229	.232	.233	.242	.249	.253	.256	.257	.253	.248	.235
Oct.....	29.237	.238	.235	.236	.239	.246	.252	.261	.265	.264	.265	.259	.246
Nov	29.239	.234	.238	.235	.236	.237	.243	.251	.254	.253	.252	.239	.226
Dec	29.270	.266	.274	.274	.268	.272	.277	.283	.288	.293	.292	.281	.266
Year ...	29.215	.213	.213	.213	.213	.220	.226	.233	.236	.237	.236	.228	.216

DODGE CITY, KANS.

[λ=37° 45′ N.; φ=100° 0′ W.]

Jan	27.407	.406	.404	.404	.398	.390	.385	.393	.408	.421	.431	.436	.418
Feb	27.416	.413	.416	.414	.412	.414	.411	.415	.424	.439	.448	.450	.443
Mar	27.349	.346	.345	.334	.328	.330	.339	.345	.356	.365	.368	.366	.355
Apr	27.265	.266	.257	.253	.254	.260	.270	.284	.298	.301	.308	.306	.290
May	27.307	.306	.308	.307	.305	.305	.319	.330	.337	.338	.339	.339	.335
June ...	27.343	.344	.343	.344	.339	.343	.349	.359	.366	.367	.363	.360	.352
July	27.391	.389	.388	.389	.389	.390	.402	.409	.417	.417	.413	.414	.408
Aug	27.433	.431	.431	.429	.425	.430	.438	.445	.453	.456	.458	.456	.443
Sept....	27.367	.365	.362	.358	.358	.360	.366	.372	.381	.387	.389	.386	.375
Oct.....	27.386	.389	.389	.381	.379	.385	.395	.402	.415	.429	.429	.429	.422
Nov	27.401	.399	.393	.398	.398	.402	.404	.414	.431	.446	.453	.453	.440
Dec	27.476	.468	.459	.459	.455	.447	.448	.453	.465	.470	.480	.487	.471
Year ...	27.378	.377	.375	.372	.370	.371	.377	.385	.396	.403	.407	.407	.396

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

CINCINNATI, OHIO.

[H=628 ft.; gravity correction, —.02; local time, 38m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
.298	.295	.303	.310	.320	.330	.339	.340	.341	.345	.346	.331	.455	.188	Jan.
.424	.416	.414	.419	.430	.443	.451	.456	.460	.465	.463	.451	.612	.258	Feb.
.369	.355	.343	.339	.343	.349	.358	.367	.373	.377	.378	.383	.506	.253	Mar.
.297	.288	.280	.278	.274	.275	.277	.294	.296	.297	.295	.293	.408	.167	Apr.
.261	.248	.240	.236	.237	.241	.244	.259	.266	.269	.268	.265	.344	.185	May.
.325	.310	.302	.297	.299	.307	.310	.320	.330	.337	.337	.332	.396	.266	June.
.340	.328	.317	.308	.304	.310	.314	.328	.338	.341	.343	.346	.398	.287	July.
.330	.316	.306	.298	.294	.301	.307	.325	.332	.336	.339	.337	.398	.273	Aug.
.348	.332	.324	.320	.320	.327	.329	.338	.343	.348	.349	.358	.427	.284	Sept.
.392	.381	.376	.376	.380	.387	.392	.399	.404	.405	.406	.404	.488	.317	Oct.
.410	.397	.395	.395	.399	.405	.407	.413	.421	.422	.425	.427	.519	.327	Nov.
.477	.469	.469	.472	.477	.487	.493	.494	.494	.495	.493	.492	.639	.329	Dec.
.356	.345	.339	.337	.340	.347	.352	.361	.366	.370	.370	.368	.466	.261	Year.

CLEVELAND, OHIO.

[H=740 ft.; gravity correction, —.01; local time, 27m slow.]

.113	.111	.115	.122	.125	.129	.135	.129	.126	.126	.128	.133	.263	.980	Jan.
.260	.249	.249	.256	.259	.268	.271	.272	.277	.283	.289	.286	.476	.068	Feb.
.214	.211	.207	.208	.210	.214	.219	.219	.220	.215	.212	.227	.355	.076	Mar.
.159	.156	.154	.154	.161	.168	.177	.173	.173	.172	.173	.165	.306	.027	Apr.
.112	.105	.101	.099	.098	.102	.107	.112	.114	.113	.111	.113	.192	.026	May.
.212	.202	.193	.186	.182	.186	.190	.195	.199	.199	.199	.208	.273	.132	June.
.207	.201	.192	.187	.183	.184	.189	.193	.200	.200	.201	.209	.273	.134	July.
.235	.226	.217	.212	.210	.210	.211	.215	.216	.216	.220	.226	.286	.149	Aug.
.227	.217	.212	.211	.214	.217	.225	.227	.228	.226	.225	.232	.306	.152	Sept.
.237	.230	.228	.230	.235	.242	.243	.242	.241	.240	.235	.248	.347	.127	Oct.
.216	.213	.218	.221	.228	.235	.237	.233	.229	.228	.227	.241	.343	.121	Nov.
.269	.262	.263	.270	.280	.290	.292	.286	.281	.276	.276	.285	.445	.102	Dec.
.205	.199	.196	.196	.199	.204	.208	.208	.209	.208	.208	.214	.322	.091	Year.

DETROIT, MICH.

[H=724 ft.; gravity correction, —.01; local time, 32m slow.]

.117	.120	.125	.129	.136	.144	.144	.146	.147	.144	.144	.141	.271	.998	Jan.
.266	.262	.266	.271	.280	.291	.298	.301	.305	.306	.305	.296	.491	.083	Feb.
.225	.216	.212	.209	.211	.215	.224	.227	.225	.219	.214	.230	.370	.068	Mar.
.160	.154	.151	.151	.154	.160	.166	.171	.177	.176	.177	.161	.313	.022	Apr.
.112	.103	.098	.099	.097	.099	.105	.114	.118	.119	.123	.115	.198	.027	May.
.210	.199	.190	.184	.182	.187	.189	.196	.202	.205	.207	.210	.280	.131	June.
.215	.205	.201	.194	.189	.191	.191	.201	.209	.213	.218	.215	.288	.142	July.
.243	.227	.221	.216	.214	.215	.218	.229	.234	.238	.241	.241	.302	.172	Aug.
.224	.213	.206	.204	.206	.212	.222	.228	.231	.231	.229	.232	.318	.147	Sept.
.238	.234	.232	.232	.236	.239	.243	.246	.248	.243	.240	.245	.347	.130	Oct.
.212	.207	.210	.213	.220	.226	.231	.233	.234	.236	.238	.233	.342	.120	Nov.
.255	.253	.253	.259	.268	.275	.282	.284	.281	.281	.282	.274	.453	.102	Dec.
.206	.199	.197	.197	.199	.204	.209	.215	.218	.218	.218	.216	.331	.095	Year.

DODGE CITY, KANS.

[H=2,523 ft.; gravity correction, —.02; local time, 1h 40m slow.]

.398	.380	.373	.378	.381	.387	.394	.401	.405	.406	.406	.400	.535	.271	Jan.
.422	.399	.385	.381	.380	.385	.393	.398	.405	.410	.414	.411	.569	.251	Feb.
.338	.316	.304	.294	.294	.303	.315	.327	.337	.344	.347	.335	.478	.196	Mar.
.271	.257	.240	.225	.220	.222	.227	.238	.252	.265	.265	.262	.380	.142	Apr.
.321	.304	.290	.276	.267	.257	.255	.266	.277	.293	.297	.303	.405	.181	May.
.339	.321	.309	.295	.285	.278	.286	.293	.313	.340	.346	.332	.406	.250	June.
.396	.377	.362	.345	.336	.332	.333	.355	.370	.385	.393	.383	.453	.310	July.
.430	.414	.399	.385	.376	.374	.381	.397	.411	.424	.430	.423	.485	.353	Aug.
.360	.339	.322	.310	.305	.305	.308	.325	.335	.343	.346	.351	.431	.270	Sept.
.398	.380	.370	.364	.363	.367	.373	.383	.389	.398	.399	.392	.493	.298	Oct.
.419	.400	.389	.389	.390	.396	.405	.411	.415	.419	.423	.412	.536	.279	Nov.
.446	.430	.423	.424	.434	.443	.452	.463	.469	.473	.475	.475	.598	.336	Dec.
.378	.360	.347	.339	.336	.337	.344	.355	.365	.375	.378	.373	.481	.261	Year.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

EASTPORT, ME.

[$\lambda = 44° 54'$ N.; $\phi = 66° 59'$ W.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.735	.741	.743	.741	.745	.752	.762	.772	.781	.787	.781	.762	.746
Feb	29.886	.888	.887	.891	.894	.893	.899	.903	.909	.905	.894	.878	.857
Mar	29.896	.883	.879	.879	.883	.889	.895	.895	.899	.895	.882	.871	.855
Apr	29.896	.893	.895	.901	.912	.918	.929	.937	.944	.946	.941	.927	.916
May	29.777	.775	.772	.773	.783	.794	.799	.802	.804	.805	.801	.795	.790
June ...	29.922	.919	.916	.917	.923	.932	.941	.944	.946	.947	.943	.939	.933
July....	29.748	.746	.741	.739	.745	.750	.754	.755	.758	.758	.752	.748	.743
Aug	29.812	.810	.810	.812	.818	.827	.838	.845	.851	.855	.854	.851	.847
Sept....	29.839	.836	.839	.842	.851	.860	.866	.872	.872	.874	.870	.861	.853
Oct.....	29.959	.960	.962	.964	.969	.975	.986	.988	.985	.982	.970	.959	.950
Nov	29.943	.940	.934	.935	.937	.942	.951	.956	.958	.952	.935	.918	.906
Dec	29.877	.880	.883	.883	.892	.910	.930	.945	.958	.951	.932	.912	.899
Year....	29.857	.856	.855	.856	.863	.870	.879	.884	.889	.888	.880	.868	.858

GALVESTON, TEX.

[$\lambda = 29° 18'$ N.; $\phi = 94° 50'$ W.]

Jan	30.106	.104	.106	.105	.101	.097	.105	.122	.135	.148	.153	.147	.125
Feb	30.083	.079	.074	.068	.064	.067	.078	.084	.094	.106	.115	.111	.099
Mar	30.065	.067	.062	.058	.059	.066	.081	.091	.103	.110	.113	.112	.095
Apr	29.957	.949	.940	.936	.934	.941	.956	.968	.981	.993	.000	.993	.982
May	29.920	.913	.905	.904	.907	.914	.922	.935	.944	.949	.952	.951	.944
June ...	29.921	.915	.910	.908	.913	.922	.932	.941	.955	.958	.961	.958	.955
July....	30.023	.020	.016	.017	.022	.028	.033	.038	.055	.059	.063	.063	.057
Aug	29.946	.946	.942	.942	.940	.946	.955	.962	.974	.983	.987	.988	.978
Sept....	29.948	.946	.942	.940	.943	.949	.957	.960	.976	.987	.990	.986	.974
Oct.....	30.039	.038	.040	.037	.042	.054	.063	.072	.085	.094	.096	.092	.072
Nov	30.073	.068	.061	.059	.059	.062	.072	.081	.094	.102	.104	.095	.073
Dec	30.189	.185	.182	.179	.180	.178	.188	.201	.212	.230	.238	.233	.215
Year....	30.022	.019	.015	.013	.014	.019	.028	.038	.051	.060	.064	.061	.047

HAVRE, MONT.

[$\lambda = 48° 34'$ N.; $\phi = 109° 40'$ W.]

Jan	27.397	.394	.391	.383	.385	.377	.372	.367	.372	.381	.395	.404	.406
Feb	27.428	.428	.420	.411	.400	.390	.388	.387	.387	.392	.405	.414	.418
Mar	27.325	.328	.325	.321	.315	.305	.305	.305	.309	.326	.347	.361	.363
Apr	27.308	.302	.296	.290	.284	.277	.281	.278	.282	.295	.309	.313	.310
May....	27.263	.264	.262	.261	.266	.269	.273	.274	.276	.272	.270	.266	.259
June ...	27.277	.277	.276	.278	.284	.291	.300	.306	.312	.313	.308	.303	.296
July ...	27.313	.321	.324	.325	.330	.333	.336	.340	.344	.343	.339	.332	.326
Aug	27.314	.317	.321	.321	.328	.332	.338	.346	.350	.354	.353	.345	.336
Sept....	27.289	.287	.288	.285	.282	.279	.280	.277	.280	.281	.283	.281	.273
Oct	27.305	.304	.307	.305	.303	.298	.302	.301	.301	.315	.323	.327	.320
Nov	27.372	.375	.373	.370	.369	.356	.351	.349	.349	.355	.359	.362	.361
Dec	27.331	.326	.318	.316	.314	.305	.299	.294	.293	.304	.317	.323	.327
Year ...	27.327	.327	.325	.322	.322	.318	.319	.319	.321	.328	.334	.336	.333

KANSAS CITY, MO.*

Jan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Feb	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mar	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Apr	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sept....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oct	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nov	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dec	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

*Barograph out of order.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

EASTPORT, ME.

[H = 76 ft.; gravity correction, 0; local time, 32m fast.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
.740	.741	.742	.743	.744	.744	.743	.746	.749	.745	.742	.751	.908	.579	Jan.
.847	.838	.836	.845	.851	.854	.853	.865	.869	.874	.875	.875	.083	.662	Feb.
.844	.834	.833	.837	.842	.854	.861	.872	.875	.876	.876	.871	.023	.736	Mar.
.904	.894	.894	.891	.892	.901	.904	.913	.915	.917	.917	.912	.101	.724	Apr.
.784	.774	.767	.764	.765	.768	.774	.782	.782	.783	.784	.783	.881	.685	May.
.927	.919	.916	.910	.910	.909	.912	.915	.918	.920	.920	.925	.988	.857	June.
.739	.733	.732	.732	.734	.737	.742	.748	.751	.749	.747	.745	.824	.667	July.
.842	.834	.829	.822	.818	.813	.810	.814	.814	.817	.819	.828	.911	.721	Aug.
.846	.845	.844	.845	846	.846	.846	.844	.839	.836	.831	.850	.943	.737	Sept.
.947	.944	.946	.950	.957	.965	.971	.976	.977	.978	.979	.967	.083	.851	Oct.
.900	.897	.900	.912	.918	.921	.924	.928	.924	.924	.923	.928	.060	.792	Nov.
.895	.895	.895	.900	.903	.901	.900	.895	.893	.885	.882	.904	.116	.652	Dec.
.851	.845	.844	.846	.848	.851	.853	.858	.859	.859	.858	.862	.993	.722	Year.

GALVESTON, TEX.

[H = 42 ft.; gravity correction, —.04; local time, 1h 19m slow.]

.099	.084	.075	.075	.077	.084	.096	.100	.106	.107	.108	.107	.189	.025	Jan.
.077	.060	.050	.048	.049	.053	.061	.069	.080	.086	.088	.077	.166	.995	Feb.
.077	.054	.039	.026	.023	.026	.028	.040	.051	.059	.061	.065	.158	.972	Mar.
.968	.954	.935	.922	.923	.922	.925	.936	.952	.957	.955	.953	.025	.883	Apr.
.935	.923	.910	.898	.892	.888	.893	.899	.911	.915	.915	.918	.971	.866	May.
.945	.933	.921	.911	.904	.901	.902	.911	.920	.928	.934	.927	.972	.881	June.
.047	.032	.020	.008	.000	.998	.000	.004	.014	.022	.024	.028	.067	.989	July.
.967	.953	.935	.926	.920	.917	.918	.932	.941	.945	.948	.950	.996	.903	Aug.
.959	.939	.926	.919	.916	.916	.919	.931	.940	.943	.942	.948	.997	.902	Sept.
.051	.033	.024	.020	.020	.029	.038	.050	.058	.058	.054	.053	.112	.994	Oct.
.048	.036	.028	.027	.032	.040	.055	.063	.072	.073	.072	.065	.145	.993	Nov.
.181	.169	.159	.159	.164	.169	.180	.187	.198	.202	.204	.191	.291	.093	Dec.
.030	.014	.002	.995	.993	.995	.001	.010	.020	.025	.025	.024	.091	.958	Year.

HAVRE, MONT.

[H=2,477 ft.; gravity correction, +.01; local time, 2h 19m slow.]

.399	.390	.383	.386	.384	.379	.377	.387	.398	.407	.413	.389	.515	.268	Jan.
.414	.399	.382	.380	.381	.378	.375	.386	.395	.400	.410	.399	.547	.276	Feb.
.359	.356	.342	.328	.321	.318	.308	.311	.319	.325	.327	.327	.438	.221	Mar.
.301	.290	.280	.276	.273	.274	.276	.281	.296	.307	.310	.291	.401	.192	Apr.
.250	.243	.235	.231	.227	.228	.227	.234	.240	.252	.256	.254	.331	.175	May.
.286	.277	.268	.262	.256	.250	.247	.252	.256	.273	.282	.280	.363	.187	June.
.317	.305	.297	.287	.277	.273	.266	.271	.278	.298	.303	.312	.381	.234	July.
.323	.314	.304	.296	.286	.283	.285	.291	.307	.321	.323	.320	.401	.231	Aug.
.261	.252	.245	.239	.233	.232	.237	.246	.256	.265	.272	.267	.381	.161	Sept.
.308	.295	.286	.281	.275	.274	.275	.283	.293	.299	.299	.299	.427	.170	Oct.
.347	.331	.320	.319	.320	.321	.328	.344	.353	.363	.372	.351	.515	.205	Nov.
.313	.300	.291	.286	.288	.293	.291	.300	.307	.313	.314	.307	.448	.175	Dec.
.323	.313	.303	.298	.293	.292	.291	.299	.308	.319	.323	.316	.429	.208	Year.

KANSAS CITY, MO.

														Jan.
														Feb.
														Mar.
														Apr.
														May.
														June.
														July.
														Aug.
														Sept.
														Oct.
														Nov.
														Dec.
														Year.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

KEY WEST, FLA.

[λ = 24° 34′ N.; φ = 81° 49′ W.]

1893.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h
Jan	30.080	.074	.067	.062	.061	.065	.077	.094	.109	.122	.117	.101	.076
Feb	30.134	.123	.114	.112	.113	.120	.133	.148	.161	.170	.167	.154	.131
Mar	30.103	.092	.081	.078	.081	.091	.102	.120	.128	.135	.136	.125	.109
Apr.....	30.080	.067	.057	.053	.054	.063	.079	.090	.095	.099	.097	.090	.097
May	29.980	.971	.966	.965	.970	.981	.995	.004	.009	.011	.011	.002	.989
June ...	29.994	.984	.977	.977	.979	.989	.003	.014	.018	.021	.021	.016	.006
July....	30.059	.048	.039	.037	.040	.046	.057	.067	.070	.074	.075	.071	.064
Aug	29.951	.943	.935	.933	.934	.941	.955	.963	.969	.974	.975	.970	.961
Sept	29.992	.982	.971	.968	.968	.975	.986	.998	.005	.010	.010	.001	.990
Oct.....	29.920	.912	.903	.899	.904	.913	.928	.940	.951	.955	.951	.936	.919
Nov	30.051	.040	.031	.029	.029	.036	.050	.065	.078	.086	.080	.064	.044
Dec	30.172	.164	.154	.148	.146	.150	.165	.180	.197	.205	.198	.182	.159
Year....	30.043	.033	.025	.022	.023	.031	.044	.057	.066	.072	.070	.059	.044

MARQUETTE, MICH.

[λ = 46° 34′ N.; φ = 87° 24′ W.]

Jan	29.078	.078	.083	.080	.075	.075	.082	.088	.091	.095	.097	.095	.085
Feb	29.186	.185	.184	.175	.173	.176	.178	.179	.183	.188	.193	.194	.193
Mar	29.155	.157	.159	.153	.155	.161	.170	.174	.172	.174	.172	.172	.165
Apr	29.060	.057	.049	.046	.045	.050	.053	.063	.065	.071	.079	.086	.086
May....	29.075	.073	.071	.071	.073	.074	.079	.085	.087	.081	.078	.081	.072
June ...	29.073	.077	.078	.076	.082	.090	.089	.093	.096	.095	.095	.091	.086
July ...	29.095	.093	.092	.095	.100	107	.111	.115	.120	.120	.115	.112	.105
Aug	29.187	.187	.187	.189	.195	.201	.208	.212	.213	.212	.211	.206	.199
Sept....	29.172	.171	.169	.169	.171	.177	.183	.184	.185	.188	.185	.181	.173
Oct	29.121	.128	.129	.130	.136	.140	.142	.145	.145	.143	.140	.135	.122
Nov	29.094	.093	.096	.090	.089	.092	.095	.098	.107	.109	.110	.105	.097
Dec	29.183	.178	.175	.173	.165	.165	.169	.172	.171	.174	.182	.184	.171
Year ...	29.123	.123	.123	.121	.122	.126	.130	.134	.136	.138	.138	.137	.130

MEMPHIS, TENN.

[λ = 35° 9′ N.; φ = 90° 3′ W.]

Jan	29.736	.738	.745	.743	.740	.738	.747	.757	.772	.782	.787	.778	.751
Feb	29.796	.797	.797	.799	.799	.804	.813	.819	.832	.842	.847	.848	.830
Mar	29.755	.755	.750	.750	.754	.760	.771	.784	.793	.804	.801	.795	.780
Apr	29.621	.622	.617	.616	.620	.625	.645	.660	.667	.672	.673	.666	.649
May	29.612	.605	.603	.603	.608	.623	.636	.646	.652	.651	.651	.645	.635
June ...	29.635	.633	.632	.634	.642	.648	.662	.674	.682	.683	.683	.678	.667
July....	29.683	.681	.681	.686	.693	.705	.715	.728	.731	.733	.734	.726	.710
Aug	29.630	.627	.627	.630	.635	.646	.658	.668	.673	.675	.675	.668	.656
Sept....	29.663	.663	.659	.660	.664	.673	.685	.694	.701	.706	.709	.704	.694
Oct.....	29.740	.741	.741	.741	.744	.754	.762	.777	.792	.798	.799	.791	.775
Nov	29.778	.770	.772	.775	.776	.783	.788	.798	.812	.818	.821	.816	.794
Dec	29.871	.869	.873	.873	.870	.875	.885	.898	.909	.923	.932	.923	.897
Year ...	29.710	.708	.708	.709	.712	.720	.731	.742	.751	.757	.759	.753	.736

NEW ORLEANS, LA.

[λ = 29° 58′ N.; φ = 90° 4′ W.]

Jan	30.066	.067	.070	.072	.069	.072	.082	.091	.108	.123	.127	.119	.096
Feb	30.067	.061	.054	.050	.047	.051	.060	.069	.077	.085	.089	.090	.076
Mar	30.050	.041	.043	.041	.045	.053	.072	.088	.099	.107	.110	.108	.092
Apr	29.992	.986	.981	.979	.981	.990	.003	.010	.019	.025	.031	.027	.019
May	29.912	.905	.902	.902	.906	.915	.931	.941	.945	.946	.945	.938	.925
June ...	29.913	.908	.902	.901	.903	.913	.923	.931	.938	.939	.942	.939	.933
July....	29.999	.993	.990	.992	.991	.008	.018	.031	.034	.036	.036	.033	.025
Aug	29.904	.899	.895	.898	.901	.912	.922	.930	.935	.938	.937	.931	.924
Sept....	29.920	.917	.912	.910	.913	.920	.931	.937	.951	.955	.953	.948	.932
Oct.....	29.985	.979	.974	.972	.978	.991	.002	.014	.030	.037	.037	.031	.010
Nov	30.062	.059	.058	.058	.063	.071	.085	.097	.103	.106	.095	.073	
Dec	30.172	.167	.164	.163	.162	.166	.174	.188	.201	.215	.217	.205	.180
Year ...	30.004	.998	.995	.995	.996	.004	.016	.026	.036	.042	.044	.039	.024

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

KEY WEST, FLA.

[H = 22 ft.; gravity correction, — .05; local time, 27m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
.060	.051	.049	.051	.055	.070	.081	.087	.092	.093	.089	.079	.140	.021	Jan.
.112	.100	.093	.093	.099	.109	.122	.132	.138	.140	.138	.127	.176	.081	Feb.
.090	.075	.061	.060	.069	.081	.096	.108	.116	.116	.114	.099	.156	.044	Mar.
.065	.046	.031	.029	.034	.049	.065	.074	.082	.085	.081	.068	.107	.024	Apr.
.975	.957	.945	.944	.947	.960	.975	.983	.992	.992	.986	.979	.021	.933	May.
.994	.979	.968	.965	.970	.983	.997	.004	.010	.012	.008	.995	.030	.956	June.
.056	.042	.027	.023	.025	.035	.047	.054	.061	.062	.061	.052	.082	.017	July.
.948	.937	.925	.920	.924	.933	.946	.958	.964	.966	.960	.949	.991	.906	Aug.
.972	.956	.943	.944	.952	.968	.988	.997	.001	.001	.997	.982	.018	.939	Sept.
.903	.894	.888	.890	.902	.911	.924	.933	.936	.936	.932	.920	.964	.879	Oct.
.026	.019	.015	.020	.029	.042	.054	.062	.067	.068	.062	.048	.094	.004	Nov.
.141	.136	.132	.136	.145	.157	.170	.178	.183	.184	.178	.165	.219	.119	Dec.
.028	.016	.006	.006	.013	.025	.039	.048	.053	.053	.050	.039	.083	.994	Year.

MARQUETTE, MICH.

[H = 734 ft.; gravity correction, 0; local time, 0h 49m slow.]

.073	.072	.077	.080	.083	.082	.084	.083	.078	.077	.078	.082	.215	.940	Jan.
.179	.175	.175	.178	.176	.179	.182	.182	.183	.186	.186	.182	.361	.977	Feb.
.154	.141	.137	.135	.131	.129	.133	.133	.134	.138	.139	.152	.304	.988	Mar.
.092	.096	.096	.099	.094	.094	.097	.101	.101	.095	.093	.028	.259	.881	Apr.
.070	.066	.066	.066	.064	.064	.065	.072	.075	.076	.074	.073	.154	.995	May.
.079	.075	.069	.067	.066	.064	.063	.066	.076	.077	.079	.079	.152	.999	June.
.100	.095	.092	.094	.091	.091	.088	.092	.099	.099	.100	.101	.177	.012	July.
.192	.186	.182	.180	.178	.177	.176	.184	.188	.188	.188	.193	.261	.108	Aug.
.166	.159	.157	.156	.160	.161	.168	.173	.176	.176	.174	.172	.271	.060	Sept.
.104	.096	.095	.099	.102	.109	.110	.112	.117	.116	.115	.122	.234	.992	Oct.
.089	.085	.092	.096	.110	.106	.106	.107	.107	.104	.105	.099	.210	.987	Nov.
.166	.166	.172	.184	.187	.193	.195	.198	.198	.200	.197	.180	.350	.012	Dec.
.122	.118	.118	.120	.119	.121	.122	.125	.128	.128	.127	.126	.162	.996	Year.

MEMPHIS, TENN.

[H = 330 ft.; gravity correction, — .03, local time, 1h 0m slow.]

.725	.712	.712	.714	.721	.729	.735	.740	.745	.748	.751	.744	.850	.630	Jan.
.804	.788	.778	.776	.775	.784	.789	.797	.803	.804	.804	.805	.927	.665	Feb.
.755	.732	.714	.712	.708	.716	.721	.730	.738	.744	.744	.753	.858	.632	Mar.
.639	.617	.604	.595	.590	.584	.589	.606	.615	.615	.620	.626	.723	.528	Apr.
.624	.608	.592	.584	.576	.577	.583	.591	.604	.607	.605	.613	.683	.539	May.
.655	.641	.632	.625	.620	.622	.625	.633	.646	.648	.646	.648	.698	.593	June.
.696	.680	.672	.664	.660	.662	.665	.672	.684	.688	.686	.693	.737	.646	July.
.640	.622	.612	.607	.605	.609	.614	.625	.635	.636	.637	.638	.684	.593	Aug.
.677	.658	.649	.642	.641	.641	.645	.653	.656	.658	.657	.669	.726	.609	Sept.
.754	.737	.729	.726	.726	.731	.737	.745	.750	.752	.753	.754	.825	.683	Oct.
.772	.758	.753	.753	.755	.764	.766	.771	.771	.772	.773	.780	.863	.688	Nov.
.875	.858	.854	.855	.856	.863	.870	.875	.880	.885	.886	.881	.000	.757	Dec.
.718	.701	.692	.688	.686	.690	.695	.703	.711	.713	.714	.717	.798	.630	Year.

NEW ORLEANS, LA.

[H = 54 ft.; gravity correction, — .04; local time 1h 0m slow.]

.074	.057	.051	.047	.050	.058	.058	.066	.072	.076	.079	.077	.162	.991	Jan.
.056	.039	.033	.029	.036	.044	.051	.060	.069	.072	.074	.060	.136	.992	Feb.
.071	.043	.031	.019	.020	.021	.029	.041	.055	.058	.054	.058	.138	.962	Mar.
.005	.988	.977	.967	.961	.960	.966	.976	.985	.987	.987	.992	.048	.932	Apr.
.916	.903	.888	.880	.876	.879	.885	.899	.909	.916	.915	.912	.964	.860	May.
.924	.913	.903	.898	.896	.902	.906	.913	.921	.926	.928	.917	.959	.875	June.
.009	.993	.981	.975	.973	.976	.982	.991	.001	.005	.002	.003	.041	.960	July.
.910	.894	.881	.875	.874	.881	.888	.900	.910	.910	.909	.907	.946	.861	Aug.
.918	.899	.890	.887	.888	.892	.899	.908	.915	.920	.918	.918	.969	.871	Sept.
.989	.978	.972	.971	.976	.982	.991	.997	.006	.008	.004	.996	.060	.935	Oct.
.046	.033	.025	.021	.025	.039	.046	.054	.063	.065	.064	.061	.133	.990	Nov.
.158	.141	.135	.136	.143	.153	.164	.174	.182	.187	.187	.172	.258	.094	Dec.
.006	.990	.981	.975	.976	.982	.989	.998	.007	.011	.010	.006	.068	.944	Year.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

NEW YORK, N. Y.

[λ = 40° 43′ N.; φ = 74° 0′ W.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.763	.764	.762	.756	.752	.756	.762	.773	.779	.782	.767	.752	.732
Feb	29.925	.921	.917	.911	.911	.913	.919	.934	.940	.941	.939	.928	.911
Mar	29.859	.855	.848	.848	.854	.860	.871	.878	.877	.878	.874	.865	.853
Apr	29.862	.860	.859	.857	.862	.874	.884	.889	.887	.885	.878	.869	.854
May	29.704	.697	.695	.694	.701	.709	.713	.717	.714	.714	.710	.705	.697
June ...	29.822	.819	.817	.819	.824	.833	.841	.844	.842	.838	.833	.828	.819
July	29.769	.767	.764	.765	.772	.780	.790	.793	.790	.788	.783	.777	.767
Aug	29.775	.772	.770	.766	.763	.763	.768	.773	.778	.778	.778	.775	.770
Sept....	29.855	.854	.852	.853	.858	.864	.865	.868	.867	.862	.855	.845	.834
Oct.....	29.906	.903	.900	.900	.905	.910	.922	.933	.933	.930	.925	.914	.900
Nov	29.914	.912	.906	.904	.907	.914	.923	.934	.937	.935	.924	.909	.894
Dec	29.916	.919	.921	.914	.911	.915	.925	.932	.935	.939	.929	.909	.890
Year....	29.839	.837	.834	.832	.835	.841	.849	.856	.857	.856	.849	.840	.827

PHILADELPHIA, PA.

[λ = 39° 57′ N.; φ = 75° 9′ W.]

Jan	29.856	.859	.860	.854	.850	.853	.865	.873	.883	.885	.875	.859	.836
Feb	30.016	.017	.009	.010	.013	.019	.032	.044	.050	.051	.050	.038	.014
Mar	29.943	.939	.936	.937	.947	.955	.967	.971	.973	.971	.962	.954	.939
Apr	29.931	.925	.930	.930	.935	.947	.959	.958	.963	.962	.953	.939	.927
May	29.772	.769	.769	.772	.781	.791	.803	.809	.808	.807	.800	.790	.780
June ...	29.890	.886	.883	.885	.891	.899	.909	.914	.915	.911	.906	.899	.888
July	29.855	.851	.852	.853	.862	.871	.880	.884	.881	.878	.871	.861	.851
Aug	29.849	.840	.834	.832	.836	.845	.856	.863	.871	.875	.873	.868	.860
Sept....	29.931	.929	.928	.929	.935	.943	.947	.952	.955	.951	.944	.936	.919
Oct	29.976	.975	.972	.975	.980	.989	.001	.017	.020	.019	.014	.998	.981
Nov	29.991	.990	.991	.992	.992	.002	.013	.029	.033	.032	.021	.003	.988
Dec	30.013	.016	.016	.009	.009	.014	.023	.029	.036	.042	.033	.007	.993
Year....	29.919	.916	.915	.915	.920	.927	.938	.945	.949	.949	.942	.929	.915

PITTSBURG, PA.

[λ = 40° 32′ N.; φ = 80° 2′ W.]

Jan	29.076	.082	.088	.089	.081	.084	.089	.095	.103	.105	.099	.080	.064
Feb	29.225	.227	.230	.230	.236	.041	.246	.246	.253	.253	.250	.242	.227
Mar	29.181	.178	.172	.170	.170	.171	.175	.183	.185	.187	.181	.176	.166
Apr	29.124	.118	.116	.114	.116	.122	.132	.133	.134	.135	.131	.113	.105
May	29.048	.047	.046	.044	.043	.050	.056	.058	.058	.053	.052	.045	.043
June ...	29.149	.151	.146	.148	.152	.157	.165	.168	.172	.172	.171	.165	.153
July	29.139	.135	.136	.142	.151	.158	.167	.171	.166	.159	.153	.146	.134
Aug	29.121	.120	.122	.126	.136	.146	.158	.168	.170	.167	.160	.150	.137
Sept....	29.166	.161	.162	.167	.174	.185	.192	.193	.197	.193	.187	.176	.162
Oct.....	29.185	.185	.187	.195	.200	.207	.216	.227	.227	.223	.216	.204	.185
Nov	29.198	.198	.204	.203	.207	.210	.217	.229	.227	.227	.221	.205	.186
Dec	29.222	.219	.218	.217	.216	.224	.230	.237	.249	.257	.259	.249	.231
Year ...	29.153	.152	.152	.154	.157	.163	.170	.176	.178	.178	.173	.163	.149

PORTLAND, OREG.

[λ = 45° 32′ N.; φ = 122° 43′ W.]

Jan	30.010	.010	.011	.013	.016	.018	.015	.011	.012	.016	.022	.033	.041
Feb	29.928	.933	.937	.937	.938	.935	.933	.932	.929	.924	.920	.933	.939
Mar	29.763	.771	.773	.776	.776	.773	.771	.772	.772	.773	.774	.775	.774
Apr	29.880	.879	.876	.874	.870	.869	.866	.865	.869	.872	.875	.880	.887
May	29.919	.919	.922	.921	.920	.922	.921	.923	.927	.931	.932	.929	.927
June ...	29.934	.937	.939	.937	.938	.938	.941	.943	.945	.947	.948	.946	.941
July	29.877	.882	.886	.880	.891	.895	.898	.903	.906	.909	.908	.908	.902
Aug	29.822	.827	.831	.837	.841	.844	.849	.855	.865	.870	.872	.869	.866
Sept....	29.796	.795	.795	.797	.793	.791	.791	.794	.801	.808	.813	.817	.817
Oct.....	29.945	.943	.943	.943	.941	.935	.935	.935	.938	.945	.955	.958	.962
Nov	29.936	.935	.933	.931	.933	.928	.929	.930	.937	.944	.954	.966	.974
Dec	30.016	.019	.020	.016	.015	.014	.005	.999	.002	.004	.008	.021	.026
Year ...	29.902	.904	.906	.906	.906	.905	.904	.905	.909	.912	.916	.920	.921

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

NEW YORK, N. Y.

[H = 185 ft.; gravity correction, — .01; local time, 0h 4m fast.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
.725	.726	.732	.739	.748	.757	.762	.767	.771	.774	.772	.757	.909	.622	Jan.
.896	.893	.894	.901	.905	.908	.912	.911	.916	.916	.914	.916	.102	.703	Feb.
.839	.831	.826	.829	.834	.841	.849	.853	.858	.858	.857	.854	.994	.716	Mar.
.841	.830	.826	.824	.827	.836	.847	.854	.861	.867	.875	.859	.991	.714	Apr.
.687	.680	.675	.670	.672	.679	.691	.704	.707	.713	.714	.698	.803	.595	May.
.811	.802	.796	.793	.794	.797	.803	.811	.816	.821	.822	.819	.882	.754	June.
.756	.748	.741	.736	.734	.738	.744	.754	.760	.765	.764	.764	.844	.688	July.
.765	.758	.755	.757	.762	.769	.780	.787	.794	.795	.793	.773	.850	.681	Aug.
.822	.815	.812	.815	.819	.831	.839	.844	.848	.851	.850	.845	.924	.761	Sept.
.891	.887	.886	.889	.895	.904	.912	.916	.920	.918	.921	.909	.005	.813	Oct.
.887	.887	.891	.896	.902	.906	.908	.908	.910	.909	.907	.909	.019	.788	Nov.
.884	.885	.892	.905	.916	.925	.928	.932	.934	.934	.932	.917	.091	.745	Dec.
.817	.812	.810	.813	.817	.824	.831	.837	.841	.843	.843	.835	.951	.715	Year.

PHILADELPHIA, PA.

[H = 117 ft.; gravity correction, — .01.]

.828	.831	.832	.840	.850	.859	.865	.868	.868	.865	.863	.857	.003	.722	Jan.
.000	.995	.994	.995	.001	.006	.010	.011	.011	.013	.010	.017	.197	.802	Feb.
.927	.916	.913	.915	.921	.926	.935	.940	.942	.940	.939	.942	.076	.810	Mar.
.912	.899	.894	.896	.899	.905	.917	.929	.936	.941	.944	.930	.059	.790	Apr.
.770	.757	.755	.750	.752	.759	.771	.785	.784	.785	.784	.779	.880	.674	May.
.877	.868	.863	.859	.862	.866	.869	.882	.890	.891	.890	.887	.952	.819	June.
.840	.828	.820	.815	.815	.819	.826	.838	.846	.847	.845	.849	.928	.771	July.
.851	.841	.835	.836	.837	.845	.855	.865	.866	.870	.866	.853	.930	.763	Aug.
.906	.896	.894	.892	.901	.909	.917	.924	.927	.927	.926	.926	.003	.841	Sept.
.973	.964	.961	.963	.969	.978	.984	.988	.988	.990	.990	.986	.079	.889	Oct.
.976	.976	.977	.980	.987	.989	.991	.993	.991	.986	.983	.996	.101	.871	Nov.
.986	.985	.993	.003	.012	.022	.030	.031	.032	.033	.029	.016	.181	.850	Dec.
.904	.896	.894	.895	.900	.907	.914	.921	.923	.924	.922	.920	.032	.800	Year.

PITTSBURG, PA.

[H = 820 ft.; gravity correction, —.01; local time, 0h 20m slow.]

.052	.051	.053	.058	.065	.070	.074	.075	.075	.073	.075	.077	.212	.929	Jan.
.205	.199	.196	.195	.202	.212	.220	.221	.223	.226	.225	.226	.408	.022	Feb.
.149	.140	.132	.131	.140	.145	.159	.163	.167	.164	.162	.164	.291	.036	Mar.
.096	.090	.086	.091	.103	.112	.131	.143	139	.140	.135	.119	.242	.000	Apr.
.033	.023	.018	.019	.023	.031	.042	.047	.051	.054	.052	.043	.127	.959	May.
.145	.132	.125	.120	.122	.129	.139	.149	.151	.152	.153	.149	.218	.083	June.
.119	.108	.100	.094	.096	.099	.108	.120	.122	.127	.128	.132	.200	.063	July.
.126	.112	.106	.103	.103	.110	.120	.123	.125	.132	.134	.132	.201	.048	Aug.
.149	.137	.136	.138	.143	.153	.161	.162	.165	.162	.162	.166	.236	.085	Sept.
.175	.171	.170	.170	.176	.183	.187	.193	.193	.188	.191	.194	.292	.079	Oct.
.174	.167	.169	.170	.177	.183	.192	.193	.191	.191	.190	.197	.300	.085	Nov.
.220	.216	.219	.225	.234	.236	.237	.236	.238	.242	.241	.232	.384	.070	Dec.
.137	.129	.126	.126	.139	.147	.147	.152	.153	.154	.154	.153	.258	.038	Year.

PORTLAND, OREG.

[H = 157 ft.; gravity correction, 0; local time, 3h 11m slow.]

.040	.030	.011	.002	.998	.996	.995	.995	.995	.996	.996	.012	.089	.984	Jan.
.940	.933	.918	.905	.899	.898	.897	.901	.907	.910	.920	.923	.030	.811	Feb.
.768	.759	.749	.739	.732	.727	.727	.732	.738	.747	.757	.759	.873	.633	Mar.
.888	.886	.881	.879	.875	.871	.869	.868	.871	.878	.886	.876	.976	.780	Apr.
.921	.914	.906	.898	.888	.883	.880	.880	.886	.893	.908	.911	.998	.817	May.
.934	.927	.923	.918	.914	.909	.903	.903	.908	.913	.924	.930	.984	.868	June.
.895	.886	.875	.864	.851	.841	.834	.835	.840	.850	.862	.879	.928	.817	July.
.856	.847	.836	.824	.813	.803	.796	.794	.797	.806	.815	.835	.892	.759	Aug.
.814	.810	.803	.796	.792	.790	.787	.790	.798	.807	.811	.800	.865	.733	Sept.
.960	.951	.944	.937	.934	.929	.926	.930	.935	.939	.943	.942	.035	.843	Oct.
.967	.954	.942	.934	.934	.931	.926	.927	.924	.924	.924	.938	.030	.838	Nov.
.020	.005	.996	.991	.994	.999	.998	.003	.010	.011	.014	.009	.112	.908	Dec.
.917	.908	.899	.891	.885	.881	.878	.880	.884	.890	.897	.901	.984	.811	Year.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

ST. LOUIS, MO.

[λ = 38° 38′ N.; φ = 90° 12′ W.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.428	.424	.428	.426	.418	.414	.422	.426	.436	.443	.450	.443	.422
Feb	29.513	.512	.514	.506	.509	.511	.512	.515	.521	.525	.533	.536	.525
Mar	29.446	.445	.436	.431	.428	.430	.442	.449	.457	.461	.464	.460	.443
Apr	29.281	.279	.269	.267	.275	.278	.294	.309	.317	.323	.326	.324	.317
May	29.307	.308	.307	.305	.310	.317	.332	.339	.338	.340	.338	.337	.327
June ...	29.354	.350	.349	.354	.357	.365	.383	.400	.407	.401	.402	.396	.387
July	29.401	.400	.396	.399	.405	.415	.427	.439	.444	.443	.443	.440	.429
Aug	29.390	.387	.387	.391	.397	.405	.421	.430	.433	.435	.437	.433	.418
Sept....	29.383	.384	.383	.382	.391	.398	.409	.418	.420	.425	.422	.416	.396
Oct.....	29.428	.431	.434	.432	.439	.450	.456	.467	.482	.486	.485	.479	.458
Nov	29.483	.480	.481	.477	.471	.470	.476	.482	.494	.501	.502	.504	.484
Dec	29.547	.545	.547	.550	.544	.541	.548	.555	.566	.572	.581	.576	.553
Year ...	29.413	.412	.411	.410	.412	.416	.427	.436	.443	.446	.449	.445	.430

ST. PAUL, MINN.

[λ = 44° 58′ N.; φ = 93° 3′ W.]

Jan	29.098	.100	.106	.111	.105	.098	.098	.100	.105	.113	.119	.117	.103
Feb	29.181	.180	.179	.173	.170	.171	.173	.174	.181	.188	.190	.190	.180
Mar	29.115	.116	.113	.110	.108	.107	.114	.118	.120	.124	.122	.118	.111
Apr	28.962	.960	.951	.952	.954	.960	.969	.973	.977	.980	.981	.976	.974
May	29.023	.018	.012	.013	.012	.018	.024	.030	.031	.030	.032	.028	.019
June ...	29.029	.028	.026	.030	.033	.040	.048	.051	.051	.049	.050	.046	.032
July	29.057	.057	.057	.055	.059	.065	.077	.084	.085	.083	.078	.076	.070
Aug	29.092	.092	.093	.096	.100	.105	.113	.118	.120	.120	.119	.114	.102
Sept....	29.052	.054	.053	.053	.055	.059	.067	.075	.078	.079	.075	.067	.051
Oct.....	29.022	.022	.022	.024	.023	.022	.024	.028	.033	.035	.030	.027	.011
Nov	29.056	.054	.059	.062	.059	.066	.071	.075	.082	.086	.089	.086	.068
Dec	29.141	.135	.134	.139	.134	.130	.128	.132	.137	.142	.151	.158	.149
Year ...	29.069	.068	.067	.068	.068	.070	.076	.080	.083	.086	.086	.084	.072

SALT LAKE CITY, UTAH.

[λ = 40° 46′ N.; φ = 111° 54′ W.]

Jan	25.678	.781	.778	.779	.778	.777	.771	.767	.772	.778	.785	.792	.795
Feb	25.680	.681	.681	.681	.678	.675	.676	.676	.677	.684	.691	.695	.698
Mar	25.574	.571	.566	.564	.559	.557	.558	.562	.575	.584	.590	.596	.600
Apr	25.572	.573	.569	.562	.560	.559	.560	.564	.573	.582	.585	.590	.588
May	25.589	.586	.581	.578	.578	.577	.581	.590	.598	.602	.602	.604	.604
June ...	25.580	.583	.584	.585	.587	.592	.599	.609	.617	.625	.626	.623	.619
July	25.584	.598	.605	.610	.615	.620	.630	.641	.651	.659	.661	.661	.656
Aug	25.636	.642	.644	.647	.650	.655	.659	.668	.679	.689	.691	.693	.688
Sept....	25.576	.580	.583	.586	.589	.594	.598	.604	.612	.616	.621	.624	.615
Oct.....	25.708	.710	.710	.712	.708	.706	.711	.714	.719	.729	.734	.738	.732
Nov	25.736	.738	.737	.736	.739	.733	.734	.736	.740	.747	.753	.763	.761
Dec	25.789	.788	.785	.786	.790	.789	.788	.793	.801	.808	.817	.827	.831
Year....	25.651	.653	.652	.652	.653	.652	.655	.660	.668	.675	.680	.684	.682

SAN DIEGO, CAL.

[λ = 32° 43′ N.; φ = 117° 10′ W.]

Jan	29.971	.971	.968	.968	.967	.962	.955	.954	.964	.973	.985	.996	.997
Feb	29.996	.996	.991	.987	.981	.976	.974	.975	.981	.991	.006	.015	.018
Mar	29.982	.981	.979	.974	.961	.954	.952	.956	.970	.981	.992	.997	.998
Apr	29.971	.969	.962	.954	.946	.940	.940	.944	.959	.970	.980	.985	.988
May	29.881	.877	.875	.866	.860	.855	.855	.863	.874	.885	.889	.888	.885
June ...	29.829	.825	.823	.815	.806	.802	.803	.809	.818	.828	.838	.839	.840
July	29.831	.831	.831	.826	.818	.812	.811	.816	.825	.838	.845	.846	.843
Aug	29.814	.815	.815	.811	.804	.801	.799	.803	.810	.820	.828	.834	.832
Sept....	29.826	.823	.818	.815	.808	.807	.810	.825	.825	.835	.842	.846	.843
Oct	29.936	.933	.932	.929	.922	.917	.917	.921	.930	.943	.953	.956	.955
Nov	30.016	.017	.010	.006	.001	.999	.998	.001	.011	.023	.036	.042	.044
Dec	30.052	.051	.047	.041	.041	.037	.032	.032	.043	.053	.061	.070	.075
Year....	29.925	.924	.921	.916	.910	.905	.904	.907	.918	.928	.938	.943	.940

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

ST. LOUIS, MO.

[H = 571 ft.; gravity correction, −.02; local time, 1h 1m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
.403	.395	.399	.404	.409	.422	.425	.429	.433	.438	.433	.424	.566	.269	Jan.
.508	.497	.502	.502	.505	.508	.513	.518	.520	.526	.526	.515	.668	.339	Feb.
.424	.405	.392	.384	.385	.384	.387	.404	.413	.418	.420	.424	.562	.295	Mar.
.307	.289	.277	.265	.265	.261	.263	.281	.284	.283	.284	.288	.432	.140	Apr.
.313	.301	.292	.285	.278	.275	.275	.284	.296	.298	.301	.308	.392	.224	May.
.378	.366	.356	.347	.339	.343	.345	.352	.360	.369	.368	.368	.432	.295	June.
.418	.405	.395	.381	.375	.372	.371	.378	.392	.401	.401	.407	.456	.353	July.
.403	.387	.375	.366	.362	.358	.361	.375	.384	.391	.396	.397	.448	.342	Aug.
.378	.357	.343	.336	.334	.337	.345	.355	.360	.364	.366	.379	.443	.305	Sept.
.441	.423	.417	.415	.413	.416	.417	.427	.431	.438	.435	.442	.523	.350	Oct.
.468	.451	.450	.456	.457	.467	.472	.479	.483	.488	.486	.478	.574	.383	Nov.
.534	.514	.509	.513	.517	.526	.532	.537	.542	.545	.547	.543	.681	.400	Dec.
.415	.399	.392	.388	.387	.389	.392	.402	.408	.413	.414	.414	.515	.308	Year.

ST. PAUL, MINN.

[H = 850 ft.; gravity correction, 0; local time, 1h 12m slow.]

.084	.080	.076	.083	.087	.095	.098	.103	.105	.106	.110	.100	.232	.952	Jan.
.160	.151	.142	.136	.140	.142	.149	.151	.156	.161	.167	.166	.344	.976	Feb.
.101	.088	.081	.075	.079	.083	.088	.091	.098	.102	.102	.103	.250	.970	Mar.
.966	.955	.951	.945	.945	.946	.954	.961	.976	.982	.980	.964	.124	.795	Apr.
.012	.004	.997	.996	.991	.992	.997	.008	.017	.019	.018	.014	.099	.922	May.
.022	.018	.007	.997	.992	.979	.986	.004	.016	.026	.029	.024	.085	.957	June.
.064	.054	.047	.041	.032	.026	.027	.039	.054	.059	.062	.059	.128	.982	July.
.091	.081	.071	.068	.062	.058	.059	.065	.073	.079	.086	.091	.159	.018	Aug.
.033	.020	.011	.005	.006	.008	.014	.022	.027	.032	.035	.043	.141	.928	Sept.
.000	.991	.988	.987	.993	.002	.009	.011	.017	.020	.024	.015	.109	.915	Oct.
.053	.043	.043	.046	.052	.057	.062	.066	.069	.073	.074	.065	.167	.958	Nov.
.139	.131	.132	.138	.142	.141	.143	.144	.144	.140	.137	.139	.299	.962	Dec.
.060	.051	.046	.043	.043	.044	.049	.055	.063	.067	.069	.065	.178	.945	Year.

SALT LAKE CITY, UTAH.

H = 4,345 ft.; gravity correction, −.01; local time, 2h 27m slow.]

.780	.766	.752	.745	.746	.746	.750	.752	.751	.749	.752	.768	.853	.671	Jan.
.695	.684	.669	.657	.651	.656	.659	.665	.671	.676	.681	.676	.787	.565	Feb.
.597	.590	.581	.677	.571	.569	.569	.571	.575	.580	.580	.576	.665	.472	Mar.
.579	.571	.566	.561	.552	.546	.542	.542	.551	.563	.567	.566	.649	.473	Apr.
.599	.591	.581	.569	.560	.555	.558	.565	.572	.584	.589	.583	.665	.492	May.
.611	.601	.591	.581	.569	.559	.551	.552	.558	.568	.576	.589	.648	.516	June.
.647	.636	.622	.609	.595	.582	.574	.572	.575	.587	.596	.616	.675	.555	July.
.679	.666	.651	.634	.623	.616	.612	.610	.618	.627	.634	.650	.704	.595	Aug.
.601	.585	.567	.557	.549	.543	.541	.546	.553	.560	.564	.582	.643	.503	Sept.
.718	.699	.687	.681	.673	.669	.673	.681	.689	.695	.701	.704	.784	.618	Oct.
.750	.735	.724	.718	.719	.721	.725	.729	.733	.737	.743	.737	.827	.644	Nov.
.815	.796	.782	.775	.772	.771	.766	.775	.778	.779	.787	.791	.875	.696	Dec.
.673	.660	.648	.639	.632	.628	.627	.630	.635	.642	.648	.653	.731	.567	Year.

SAN DIEGO, CAL.

[H = 93 ft.; gravity correction, −.03; local time, 2h 49m slow.]

.983	.955	.935	.925	.925	.926	.928	.938	.948	.954	.958	.959	.011	.912	Jan.
.011	.997	.977	.966	.963	.968	.971	.977	.984	.992	.998	.987	.041	.944	Feb.
.994	.985	.973	.966	.956	.952	.955	.959	.965	.977	.983	.973	.044	.911	Mar.
.984	.973	.966	.953	.943	.940	.938	.938	.946	.960	.968	.959	.001	.919	Apr.
.883	.878	.875	.865	.855	.850	.849	.856	.864	.870	.880	.870	.917	.826	May.
.841	.837	.829	.823	.817	.809	.804	.804	.806	.813	.819	.820	.854	.785	June.
.840	.837	.829	.822	.815	.806	.803	.805	.811	.818	.826	.824	.858	.788	July.
.825	.815	.804	.796	.786	.780	.777	.779	.785	.796	.807	.806	.842	.771	Aug.
.835	.827	.816	.806	.800	.776	.795	.798	.807	.819	.825	.818	.854	.787	Sept.
.944	.925	.910	.906	.903	.902	.906	.915	.925	.934	.940	.927	.973	.886	Oct.
.029	.007	.987	.981	.977	.978	.982	.992	.999	.008	.013	.007	.065	.953	Nov.
.067	.046	.025	.011	.012	.012	.016	.027	.039	.049	.053	.041	.101	.990	Dec.
.936	.924	.910	.902	.896	.893	.894	.899	.907	.916	.922	.916	.960	.873	Year.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

SAN FRANCISCO, CAL.

[λ=37° 48′ N.; φ=122° 26′ W.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.954	.960	.962	.961	.962	.962	.952	.949	.951	.955	.963	.971	.984
Feb	30.004	.007	.007	.006	.003	.997	.991	.992	.995	.001	.013	.020	.033
Mar	29.868	.871	.873	.870	.866	.858	.857	.860	.867	.876	.884	.894	.898
Apr	29.980	.983	.982	.979	.973	.971	.968	.972	.983	.005	.009	.011	.015
May	29.874	.872	.873	.869	.865	.863	.863	.864	.875	.887	.898	.896	.896
June ...	29.848	.851	.848	.843	.840	.837	.838	.845	.854	.867	.875	.875	.876
July	29.795	.798	.795	.793	.790	.789	.791	.797	.807	.816	.826	.829	.831
Aug	29.772	.775	.776	.774	.772	.772	.772	.776	.789	.801	.807	.810	.812
Sept....	29.802	.806	.804	.804	.800	.794	.795	.799	.808	.818	.826	.836	.838
Oct.....	29.924	.925	.926	.927	.923	.915	.915	.920	.927	.934	.947	.955	.955
Nov	30.010	.012	.012	.010	.011	.005	.002	.006	.011	.017	.032	.042	.047
Dec	30.054	.057	.053	.046	.044	.043	.037	.032	.037	.043	.051	.061	.070
Year....	29.907	.910	.909	.907	.904	.900	.898	.901	.909	.918	.928	.933	.938

SANTA FE, N. MEX.

[λ=35° 41′ N.; φ=105° 57′ W.]

Jan	23.254	.254	.251	.250	.251	.247	.243	.245	.248	.255	.262	.270	.272
Feb	23.183	.184	.182	.181	.177	.174	.176	.176	.178	.187	.194	.205	.205
Mar	23.208	.209	.208	.209	.204	.200	.200	.203	.209	.217	.223	.227	.225
Apr	23.181	.183	.183	.180	.178	.179	.180	.186	.190	.198	.200	.205	.203
May	23.238	.238	.239	.237	.235	.235	.237	.249	.255	.259	.259	.261	.259
June ...	23.310	.314	.314	.316	.316	.318	.325	.337	.346	.352	.354	.356	.348
July	23.401	.401	.401	.399	.398	.398	.404	.413	.420	.426	.429	.431	.427
Aug	23.391	.392	.392	.390	.390	.390	.392	.398	.404	.408	.411	.414	.406
Sept	23.345	.344	.344	.343	.341	.340	.343	.346	.355	.360	.364	.370	.366
Oct.....	23.345	.345	.346	.345	.341	.341	.343	.349	.355	.363	.371	.377	.374
Nov	23.280	.281	.279	.278	.276	.274	.273	.278	.282	.293	.297	.305	.301
Dec	23.333	.333	.325	.322	.320	.315	.311	.311	.313	.319	.325	.340	.339
Year....	23.289	.290	.289	.288	.286	.284	.286	.291	.296	.303	.307	.313	.310

SAVANNAH, GA.

[λ=32° 5′ N.; φ=81° 5′ W.]

Jan	29.983	.985	.988	.985	.977	.981	.992	.002	.016	.020	.010	.990	.963
Feb	30.080	.079	.073	.071	.075	.084	.095	.105	.114	.120	.116	.099	.071
Mar	30.007	.002	.993	.995	.003	.011	.024	.038	.049	.057	.052	.044	.022
Apr	29.998	.982	.978	.979	.986	.000	.018	.031	.030	.034	.029	.014	.997
May	29.884	.878	.876	.880	.886	.898	.912	.921	.922	.920	.912	.900	.886
June ...	29.901	.896	.898	.902	.911	.921	.935	.946	.946	.949	.945	.936	.924
July	29.950	.943	.936	.938	.947	.955	.967	.977	.980	.981	.976	.968	.951
Aug	29.822	.821	.825	.830	.841	.854	.868	.878	.885	.890	.889	.878	.863
Sept....	29.948	.943	.941	.943	.950	.960	.971	.979	.986	.989	.985	.974	.958
Oct	29.924	.919	.913	.913	.922	.932	.945	.959	.968	.971	.967	.955	.932
Nov	30.026	.026	.022	.020	.023	.029	.045	.059	.068	.067	.057	.038	.009
Dec	30.132	.131	.131	.130	.129	.139	.152	.161	.172	.178	.169	.148	.120
Year....	29.970	.967	.964	.966	.971	.980	.994	.005	.011	.015	.009	.995	.975

WASHINGTON, D. C.

[λ=38° 54′ N.; φ=77° 3′ W.]

Jan	29.892	.897	.900	.895	.890	.893	.903	.914	.927	.931	.920	.898	.879
Feb	30.052	.046	.044	.044	.050	.054	.063	.072	.081	.081	.082	.071	.039
Mar	29.967	.964	.961	.961	.967	.976	.986	.995	.003	.004	.998	.989	.968
Apr	29.936	.929	.925	.926	.931	.941	.955	.956	.960	.960	.958	.945	.923
May	29.803	.799	.798	.800	.808	.823	.829	.833	.834	.836	.830	.819	.808
June ...	29.899	.893	.893	.896	.902	.913	.922	.929	.927	.927	.928	.922	.910
July	29.875	.870	.865	.870	.879	.887	.895	.901	.902	.902	.898	.892	.882
Aug	29.857	.854	.854	.857	.865	.876	.889	.896	.901	.907	.904	.896	.890
Sept....	29.952	.949	.947	.947	.951	.960	.966	.974	.979	.982	.977	.970	.955
Oct.....	29.984	.982	.982	.984	.990	.000	.013	.024	.031	.032	.030	.015	.994
Nov	30.016	.015	.020	.018	.023	.028	.040	.050	.053	.056	.052	.032	.010
Dec	30.041	.041	.042	.033	.029	.037	.047	.057	.063	.072	.064	.037	.020
Year....	29.940	.937	.936	.936	.940	.949	.959	.967	.972	.974	.970	.957	.940

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

SAN FRANCISCO, CAL.

[H = 153 ft.; gravity correction, —.02; local time, 3h 10m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
.975	.955	.934	.924	.916	.915	.913	.920	.927	.932	.936	.947	.016	.883	Jan.
.034	.024	.006	.993	.986	.982	.979	.982	.988	.992	.000	.001	.070	.926	Feb.
.899	.894	.886	.874	.868	.859	.854	.854	.854	.861	.871	.872	.959	.779	Mar.
.012	.007	.999	.990	.978	.969	.961	.958	.959	.966	.976	.984	.043	.912	Apr.
.894	.887	.879	.871	.860	.851	.845	.842	.844	.852	.863	.870	.917	.825	May.
.873	.867	.860	.849	.840	.828	.821	.821	.824	.826	.838	.848	.891	.799	June.
.828	.822	.814	.802	.791	.780	.767	.769	.773	.781	.792	.799	.839	.754	July.
.806	.797	.788	.775	.761	.751	.745	.746	.752	.761	.771	.778	.816	.733	Aug.
.830	.823	.812	.801	.791	.783	.779	.780	.785	.796	.801	.805	.849	.757	Sept.
.949	.936	.920	.910	.904	.898	.896	.902	.906	.913	.921	.923	.976	.865	Oct.
.042	.026	.010	.000	.992	.989	.987	.994	.999	.004	.011	.011	.067	.957	Nov.
.067	.055	.038	.027	.021	.022	.022	.030	.036	.042	.044	.043	.108	.984	Dec.
.934	.924	.912	.901	.892	.886	.881	.883	.887	.894	.902	.907	.963	.848	Year.

SANTA FE, N. MEX.

[H = 7,051 ft.; gravity correction, —.02; local time, 2h 4m slow.]

.256	.236	.227	.222	.220	.224	.230	.233	.237	.243	.245	.245	.304	.190	Jan.
.198	.182	.166	.156	.155	.155	.163	.170	.175	.181	.187	.179	.273	.089	Feb.
.216	.198	.183	.170	.166	.162	.167	.172	.185	.200	.207	.199	.274	.131	Mar.
.195	.182	.170	.153	.140	.135	.134	.137	.149	.165	.176	.174	.239	.110	Apr.
.249	.238	.227	.216	.205	.195	.189	.193	.205	.218	.235	.232	.297	.165	May.
.339	.327	.315	.300	.287	.277	.272	.274	.282	.294	.310	.316	.360	.265	June.
.421	.407	.394	.384	.375	.365	.360	.366	.372	.386	.400	.399	.440	.350	July.
.398	.389	.377	.364	.355	.349	.347	.350	.362	.379	.389	.385	.423	.335	Aug.
.357	.345	.334	.321	.312	.307	.303	.309	.315	.324	.331	.338	.381	.294	Sept.
.364	.345	.336	.328	.325	.325	.330	.335	.343	.349	.351	.347	.408	.290	Oct.
.285	.266	.257	.251	.250	.253	.263	.269	.275	.280	.286	.276	.347	.215	Nov.
.327	.309	.300	.295	.300	.304	.310	.315	.325	.326	.331	.319	.398	.251	Dec.
.300	.285	.274	.263	.258	.254	.256	.260	.269	.279	.287	.284	.345	.224	Year.

SAVANNAH, GA.

[H = 98 ft.; gravity correction, —.03; local time, 0h 24m slow.]

.947	.940	.946	.953	.964	.975	.991	.996	.997	.998	.995	.983	.091	.875	Jan.
.049	.036	.036	.037	.046	.051	.062	.068	.073	.077	.077	.075	.161	.990	Feb.
.999	.988	.978	.978	.984	.992	.001	.011	.015	.013	.009	.011	.101	.920	Mar.
.981	.961	.950	.948	.947	.958	.977	.984	.990	.992	.993	.989	.055	.922	Apr.
.870	.853	.845	.840	.844	.857	.869	.878	.887	.889	.886	.883	.948	.813	May.
.908	.895	.888	.883	.884	.890	.899	.909	.915	.917	.913	.913	.971	.838	June.
.930	.914	.907	.910	.915	.924	.930	.941	.951	.954	.953	.946	.994	.887	July.
.848	.831	.825	.825	.827	.833	.841	.849	.851	.843	.831	.848	.916	.729	Aug.
.938	.923	.918	.918	.922	.931	.942	.949	.953	.953	.950	.951	.995	.905	Sept.
.914	.904	.901	.905	.914	.923	.934	.939	.943	.939	.935	.932	.003	.858	Oct.
.992	.984	.983	.988	.001	.010	.018	.023	.027	.024	.021	.023	.099	.946	Nov.
.105	.095	.097	.100	.111	.123	.133	.140	.145	.144	.141	.134	.221	.054	Dec.
.957	.944	.940	.940	.947	.956	.966	.974	.979	.979	.975	.974	.046	.895	Year.

WASHINGTON, D. C.

[H = 112 ft.; gravity correction, —.02; local time, 0h 8m slow.]

.867	.865	.865	.874	.882	.894	.903	.905	.907	.906	.902	.896	.039	.758	Jan.
.023	.016	.011	.018	.024	.033	.035	.037	.040	.043	.042	.046	.218	.846	Feb.
.949	.935	.926	.931	.937	.940	.952	.962	.966	.965	.962	.965	.097	.839	Mar.
.908	.898	.893	.896	.898	.905	.920	.932	.938	.940	.945	.930	.057	.800	Apr.
.797	.784	.776	.772	.771	.777	.785	.801	.810	.807	.807	.805	.902	.698	May.
.900	.887	.878	.873	.874	.880	.883	.895	.902	.903	.899	.901	.962	.833	June.
.870	.856	.843	.843	.837	.842	.851	.860	.866	.867	.868	.872	.938	.798	July.
.875	.864	.857	.854	.850	.852	.857	.866	.869	.871	.871	.872	.943	.787	Aug.
.938	.926	.919	.916	.921	.929	.937	.943	.948	.949	.949	.949	.019	.876	Sept.
.979	.972	.965	.964	.970	.977	.980	.986	.993	.994	.997	.993	.085	.891	Oct.
.998	.988	.987	.992	.996	.004	.009	.013	.014	.009	.004	.018	.121	.899	Nov.
.014	.012	.018	.024	.040	.055	.061	.066	.066	.065	.063	.044	.209	.892	Dec.
.926	.917	.911	.913	.917	.924	.931	.939	.943	.943	.942	.941	.049	.826	Year.

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AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME.

BISMARCK, N. DAK.

[λ = 46° 47′; ϕ = 100° 38′.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	6.0	5.6	4.9	4.4	4.5	4.3	4.6	4.5	3.8	3.8	5.0	6.6	8.2
Feb	1.6	1.1	0.9	1.3	1.3	1.4	1.4	0.9	0.8	1.6	3.2	5.0	6.6
Mar	13.3	12.7	12.5	11.8	11.3	10.8	10.4	10.1	10.8	12.2	15.3	17.8	20.2
Apr	33.2	32.1	31.4	30.7	30.1	29.3	29.3	29.8	31.4	34.0	36.7	38.8	40.5
May	47.8	47.0	46.0	44.8	44.0	42.8	42.4	44.9	48.5	52.1	54.7	56.7	55.2
June ...	61.0	60.3	59.7	58.7	58.1	57.8	58.5	60.4	62.9	65.8	68.0	70.5	71.7
July....	64.6	63.4	62.4	61.1	60.5	59.9	60.2	63.0	66.3	70.2	73.3	75.5	77.2
Aug	63.7	62.2	60.8	59.4	58.2	56.7	56.0	57.8	61.8	66.6	71.2	74.6	77.0
Sept....	55.0	53.6	52.4	51.5	50.1	49.1	48.0	48.2	51.0	55.5	60.2	64.0	66.6
Oct	38.1	36.7	35.9	35.0	34.4	33.6	32.7	32.5	32.7	35.9	39.8	43.3	46.0
Nov	23.4	22.9	22.3	21.2	20.9	20.5	20.0	19.7	20.1	21.4	23.6	26.8	29.5
Dec	8.4	8.4	7.7	7.2	6.8	6.3	6.4	6.2	5.3	5.5	6.7	8.2	9.8
Year....	34.7	33.8	33.1	32.3	31.7	31.0	30.8	31.5	33.0	35.4	38.1	40.6	42.4

BOSTON, MASS.

[λ = 42° 21′; ϕ = 71° 4′.]

Jan	18.4	18.1	17.8	17.5	17.2	17.2	17.2	17.7	18.6	19.8	21.8	23.2	24.7
Feb	25.0	24.5	24.1	24.0	24.0	23.9	23.7	23.9	25.1	26.6	28.1	29.9	31.0
Mar	31.3	30.8	30.7	30.4	30.3	30.2	30.8	31.9	33.6	34.6	35.4	36.2	36.9
Apr	41.1	40.6	40.0	39.6	39.2	39.1	40.1	41.8	43.4	44.5	45.7	46.6	47.7
May	52.3	51.9	51.2	50.8	50.7	51.2	52.6	55.3	57.1	58.2	59.2	59.4	59.1
June ...	60.7	60.6	60.2	60.2	59.7	60.4	61.8	63.8	65.1	66.2	66.8	66.6	67.3
July....	65.5	65.0	64.6	64.2	64.1	64.7	67.6	70.5	72.9	74.7	76.0	76.1	75.9
Aug	65.8	65.2	65.1	64.7	64.3	64.7	65.9	67.5	69.5	71.2	72.4	72.8	73.4
Sept....	56.4	55.9	55.4	54.8	54.1	53.9	55.2	57.5	59.4	61.2	63.1	64.3	65.3
Oct	51.6	51.2	50.7	50.3	50.0	49.8	50.4	52.1	53.9	55.6	57.4	58.3	59.3
Nov	39.9	39.5	39.2	38.7	38.7	38.4	38.5	39.3	40.7	42.7	45.2	46.5	47.3
Dec	29.0	28.7	28.7	28.5	28.2	28.1	28.3	28.5	29.1	30.4	31.6	32.9	33.7
Year ...	44.8	44.3	44.0	43.6	43.4	43.5	44.3	45.8	47.4	48.8	50.2	51.1	51.8

BUFFALO, N. Y.

[λ = 42° 53′; ϕ = 78° 53′.]

Jan	17.1	17.0	16.8	16.7	16.5	16.2	15.7	15.5	15.6	15.9	16.9	18.1	18.8
Feb	21.0	20.9	20.6	20.2	20.2	20.3	20.2	19.9	19.7	20.3	21.1	22.1	23.3
Mar	31.4	31.0	30.9	30.7	30.7	30.5	30.4	30.5	30.6	31.4	32.4	34.0	34.5
Apr	40.8	40.6	40.6	40.3	39.9	39.7	39.7	40.1	40.9	41.9	42.4	43.1	43.4
May	51.0	50.6	50.5	50.1	49.8	49.7	50.7	52.9	53.4	54.0	55.0	56.4	56.9
June ...	66.1	65.7	65.4	65.1	64.7	64.3	65.2	66.9	67.5	68.3	68.7	70.0	70.1
July....	67.7	67.2	66.9	66.8	66.4	66.3	67.5	69.2	70.7	71.6	72.7	73.4	74.3
Aug	65.3	64.6	64.5	64.3	64.0	63.5	64.8	67.1	69.2	71.1	72.2	73.0	74.1
Sept....	58.7	58.4	57.9	57.2	56.8	56.5	57.3	58.7	60.7	62.1	63.2	64.4	65.4
Oct.....	51.1	50.7	50.3	50.4	49.9	49.9	49.9	51.0	53.1	55.1	56.6	57.9	58.6
Nov	39.5	39.3	39.1	38.7	38.3	38.1	37.9	38.2	39.2	40.7	42.3	43.3	43.7
Dec	28.2	28.0	27.8	27.6	27.5	27.4	27.3	27.8	27.8	28.0	28.5	29.0	29.6
Year ...	44.8	44.5	44.3	44.0	43.7	43.5	43.9	44.8	45.7	46.7	47.7	48.7	49.4

CHICAGO, ILL.

[λ = 41° 53′; ϕ = 87° 37′.]

Jan	12.3	12.2	12.0	12.0	12.2	12.0	11.5	11.2	10.9	11.2	11.8	13.0	14.0
Feb	22.5	22.2	21.2	20.8	20.1	19.7	19.8	19.6	19.9	20.4	21.5	22.5	22.8
Mar	32.4	32.4	31.8	31.5	31.0	30.8	30.7	30.6	31.3	32.2	33.0	34.2	36.1
Apr	43.9	43.1	42.2	41.6	41.0	40.4	40.9	41.7	42.4	43.6	43.8	44.9	45.6
May	51.5	50.3	49.6	49.5	48.9	48.5	49.1	50.6	51.7	52.9	53.4	53.5	53.8
June ...	65.4	64.9	64.7	64.1	63.2	62.6	63.3	65.3	67.1	68.3	68.9	69.7	70.4
July....	71.6	70.6	70.0	69.0	68.5	68.3	69.5	71.5	73.7	75.2	75.5	76.5	76.7
Aug	68.8	68.0	67.2	65.8	64.8	64.6	65.4	67.7	70.3	71.8	72.8	73.5	73.9
Sept....	63.0	62.4	61.4	60.7	59.7	59.4	58.9	59.8	62.0	64.3	65.7	66.6	67.5
Oct.....	51.6	51.0	50.3	49.4	49.0	48.3	48.0	48.4	49.5	51.6	53.8	55.5	56.0
Nov	35.8	35.2	34.8	34.2	33.7	33.5	33.1	33.2	33.4	34.6	36.4	38.3	39.2
Dec	24.9	24.6	24.6	24.6	24.8	24.7	24.7	24.7	24.8	25.4	26.3	27.7	28.4
Year ...	45.3	44.7	44.2	43.6	43.1	42.7	42.9	43.7	44.8	46.0	46.9	48.0	48.6

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME.

BISMARCK, N. DAK.

[h_t = 59 ft.; local time, 1h 42m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
9.4	9.9	10.3	9.9	9.4	8.0	7.3	6.2	5.2	4.6	4.3	6.3	13.9	−2.9	Jan.
8.2	9.2	9.9	10.0	9.5	8.3	6.5	5.2	4.8	4.4	3.5	4.4	12.5	−3.8	Feb.
21.8	23.3	24.2	24.4	24.0	22.8	20.9	19.0	17.6	16.3	15.1	16.6	26.2	7.6	Mar.
42.0	42.8	43.5	44.0	43.3	42.2	41.0	38.6	37.0	35.9	34.3	36.3	46.2	26.8	Apr.
59.7	63.9	61.3	61.3	60.9	59.9	59.2	56.4	53.2	51.5	49.6	52.7	63.9	39.7	May.
73.1	74.6	75.3	75.5	75.0	74.4	73.0	69.7	66.8	64.7	62.6	66.6	77.6	54.7	June.
78.8	80.1	80.7	80.5	80.4	79.5	78.2	74.7	71.1	68.4	66.6	70.7	82.8	57.6	July.
78.5	80.4	81.4	81.6	80.6	79.4	77.2	72.6	69.3	66.9	65.2	69.1	83.3	54.5	Aug.
68.5	70.8	71.9	72.4	72.3	70.2	66.9	63.3	60.2	57.9	56.1	59.8	73.8	45.6	Sept.
48.4	50.1	51.0	51.0	50.3	47.8	45.2	43.2	41.3	40.3	39.0	41.0	54.1	30.4	Oct.
31.5	32.4	32.7	32.2	30.4	28.1	26.0	24.4	23.1	22.6	21.9	24.9	36.3	15.9	Nov.
11.0	12.3	13.4	13.5	12.8	12.2	11.6	10.6	10.5	9.8	9.8	9.2	17.3	−0.1	Dec.
44.2	45.8	46.3	46.4	45.7	44.4	42.8	40.3	38.3	36.9	35.7	38.1	49.0	27.2	Year.

BOSTON, MASS.

[h_t = 115 ft.; local time, 0h 16m fast.]

25.6	25.5	25.2	24.3	23.3	22.2	21.2	20.1	19.5	19.1	18.7	20.6	28.1	13.3	Jan.
31.6	31.4	31.0	30.0	28.7	28.0	27.6	26.9	26.4	26.0	25.8	27.0	34.6	19.0	Feb.
37.7	38.1	37.8	37.4	36.5	35.1	34.5	33.7	32.9	32.4	32.0	33.8	40.2	27.3	Mar.
47.8	47.7	47.9	48.1	47.5	46.3	45.4	44.7	43.9	42.9	42.2	43.9	51.9	36.8	Apr.
59.0	59.2	60.2	60.9	60.1	58.1	56.4	55.4	54.5	53.8	53.0	55.8	64.0	48.6	May.
67.4	67.9	67.9	67.5	66.9	65.5	63.8	62.9	62.2	61.5	61.1	63.9	71.6	57.9	June.
76.4	76.1	76.5	76.4	74.9	72.7	71.1	69.6	68.5	67.4	66.9	70.8	80.4	62.5	July.
73.5	73.3	72.7	72.6	71.5	70.2	69.4	68.5	67.7	67.0	66.3	69.0	76.7	62.4	Aug.
65.6	65.3	64.9	64.1	62.6	61.3	59.7	58.6	57.8	57.2	56.4	59.6	67.8	52.2	Sept.
59.3	59.5	58.7	58.0	56.5	55.3	54.1	53.6	52.9	52.2	51.7	54.3	61.8	47.7	Oct.
47.2	47.0	46.1	45.0	43.9	42.9	42.0	41.7	41.3	40.8	40.5	42.2	49.3	35.1	Nov.
34.1	34.2	33.9	33.7	32.5	31.6	30.5	29.7	29.1	28.6	28.4	30.5	37.6	23.1	Dec.
52.1	52.1	51.9	51.5	50.4	49.1	48.0	47.1	46.4	45.7	45.2	47.6	55.3	40.5	Year.

BUFFALO, N. Y.

[h_t = 103 ft.; local time, 0h 15m slow.]

19.5	19.7	19.7	19.5	19.5	19.4	19.2	18.6	18.2	17.5	17.4	17.7	22.1	11.5	Jan.
23.8	24.5	24.6	24.5	24.3	23.3	22.8	21.7	21.1	20.7	20.5	21.7	28.5	13.9	Feb.
34.8	35.9	36.0	36.0	35.3	34.4	33.7	33.1	32.9	32.8	32.7	32.8	37.4	23.6	Mar.
43.6	44.0	44.2	44.1	44.1	43.3	42.2	41.8	41.5	41.0	40.8	41.8	48.1	33.8	Apr.
56.2	56.2	56.7	56.5	56.1	55.5	54.3	53.9	53.5	53.0	52.4	53.5	60.8	44.6	May.
70.4	70.8	71.5	71.5	71.0	70.4	68.5	68.0	67.7	67.1	66.6	68.0	74.3	60.5	June.
74.6	74.8	75.0	74.7	74.2	73.5	72.1	71.3	70.6	69.8	68.9	70.8	77.5	62.4	July.
74.7	75.1	75.4	75.2	74.5	73.1	71.0	69.8	68.3	67.3	66.2	69.5	77.0	60.5	Aug.
65.7	66.2	66.4	66.0	64.5	62.9	61.6	60.6	59.8	59.1	58.6	61.2	67.9	52.6	Sept.
59.1	59.5	59.2	58.4	56.8	54.8	53.9	53.2	52.8	51.9	51.6	54.0	61.0	46.0	Oct.
44.1	43.9	43.3	42.4	41.6	41.1	40.5	40.0	39.4	39.4	39.3	40.6	45.8	34.5	Nov.
29.7	29.8	29.8	29.5	29.5	29.3	29.1	28.6	28.5	28.2	28.0	28.5	33.7	21.6	Dec.
49.7	50.0	50.2	49.9	49.3	48.4	47.4	46.7	46.2	45.6	45.2	46.7	52.8	38.8	Year.

CHICAGO, ILL.

[h_t = 241; local time, 0h 50m slow.]

14.3	14.6	15.1	15.1	14.7	14.3	13.9	13.5	13.2	13.0	12.8	13.0	18.8	5.3	Jan.
23.0	23.7	24.4	24.2	24.2	24.1	23.8	23.5	23.4	23.0	22.8	22.2	28.3	14.7	Feb.
35.4	35.6	35.9	36.2	36.2	35.8	35.2	34.8	34.6	34.2	33.9	33.5	39.5	27.0	Mar.
46.5	47.5	47.9	47.9	48.0	46.4	45.5	44.5	44.2	44.0	43.6	44.2	51.3	37.3	Apr.
54.7	55.4	56.0	56.2	56.0	55.0	54.4	53.7	53.0	52.9	52.4	52.6	59.2	45.7	May.
71.5	72.3	72.2	72.0	71.7	70.5	69.8	68.1	67.3	66.4	66.0	67.8	74.9	60.8	June.
76.8	77.0	77.2	77.9	78.4	76.9	76.0	74.6	74.0	73.0	72.2	73.8	80.6	66.9	July.
74.5	74.1	74.1	74.0	73.7	73.1	71.4	70.5	69.7	69.5	69.2	70.3	76.0	63.6	Aug.
68.4	68.5	69.1	68.8	68.1	67.0	66.1	64.9	64.1	63.5	63.4	64.3	71.0	57.2	Sept.
57.0	57.5	58.1	58.2	57.4	56.3	55.2	54.5	54.1	53.0	52.2	53.2	60.5	44.6	Oct.
39.9	39.7	39.7	39.4	39.1	38.1	37.3	36.6	36.2	35.6	35.0	36.3	42.5	29.4	Nov.
29.2	29.5	29.7	29.5	29.0	28.4	28.0	27.3	26.7	26.0	25.7	26.6	32.6	18.2	Dec.
49.3	49.6	50.0	50.0	49.7	48.8	48.0	47.2	46.7	46.2	45.8	46.5	52.9	39.2	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

CINCINNATI, OHIO.

[$\lambda = 39° 6'$; $\phi = 84° 30'$.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	20.3	19.9	19.6	19.3	18.8	18.5	18.2	18.2	18.6	19.4	20.5	21.6	23.1
Feb	33.3	33.0	32.2	31.6	31.2	30.9	30.8	30.5	30.8	31.4	32.2	33.4	34.8
Mar	40.3	39.9	39.1	38.7	38.2	37.8	37.4	37.6	38.3	39.7	41.5	43.3	45.3
Apr	52.5	52.0	51.4	50.9	50.5	50.0	50.0	50.5	51.4	53.1	54.4	55.8	57.1
May	58.9	57.8	56.6	55.9	55.3	55.0	54.9	57.0	58.6	60.4	61.7	63.4	64.9
June ...	69.7	69.0	67.9	67.1	66.5	66.0	67.4	69.1	70.9	72.9	74.7	76.2	77.0
July	75.3	74.4	73.4	72.8	72.1	71.7	72.3	73.6	76.4	78.8	80.5	82.5	84.1
Aug	71.7	70.6	69.4	68.5	67.5	66.7	67.0	69.1	72.3	75.3	77.5	78.7	80.3
Sept....	67.6	66.8	65.7	64.9	64.2	63.2	62.8	63.2	65.1	67.9	70.3	72.7	74.7
Oct	53.4	52.6	52.0	51.5	50.8	50.3	49.9	50.0	52.1	54.6	57.6	59.8	61.4
Nov	41.4	40.7	40.1	39.4	38.6	37.9	37.3	37.4	37.9	39.1	40.9	42.8	44.5
Dec	36.4	36.2	35.8	35.5	34.7	33.6	33.2	32.8	33.0	34.0	35.2	37.1	38.7
Year ...	51.7	51.1	50.3	49.7	49.0	48.5	48.4	49.1	50.4	52.2	53.9	55.6	57.2

CLEVELAND, OHIO.

[$\lambda = 41° 30'$; $\phi = 81° 42'$.]

Jan	16.9	16.5	16.1	15.7	15.5	15.3	15.3	15.7	15.8	16.6	17.6	18.8	19.5
Feb	25.6	25.2	24.8	24.5	24.1	23.5	23.2	23.1	23.3	24.1	25.2	25.8	26.5
Mar	33.3	33.1	32.8	32.5	32.4	32.2	32.0	32.5	33.0	34.5	35.5	36.7	37.2
Apr	45.6	44.8	44.3	44.0	43.6	43.2	43.0	44.3	45.2	46.0	46.8	47.6	48.3
May	53.2	52.5	51.5	51.1	50.8	50.5	51.4	53.8	55.3	56.8	57.2	57.0	57.0
June ...	66.4	65.7	65.3	64.5	63.6	63.6	65.0	67.6	69.4	70.5	71.4	72.4	72.5
July	68.2	67.4	66.7	66.3	65.5	65.5	66.7	70.6	73.0	75.0	76.1	76.8	77.2
Aug	65.5	64.3	63.6	62.9	62.3	61.8	63.1	66.4	70.0	72.4	72.9	73.8	73.9
Sept....	60.2	60.1	59.5	58.6	58.2	57.8	57.6	59.9	62.3	64.4	65.8	66.4	67.2
Oct	50.3	49.9	49.5	49.0	48.5	47.9	47.6	48.7	50.3	53.5	56.5	58.1	58.9
Nov	37.4	37.2	37.0	36.4	35.7	35.5	35.2	35.3	35.9	37.3	39.5	41.0	41.8
Dec	30.9	30.7	30.3	29.9	29.6	29.5	29.0	29.1	29.1	29.6	30.6	31.8	32.4
Year ...	46.1	45.6	45.1	44.6	44.2	43.9	44.1	45.6	46.9	48.4	49.6	50.5	51.0

DETROIT, MICH.

[$\lambda = 42° 20'$; $\phi = 83° 3'$.]

Jan	15.2	15.0	14.5	14.1	14.0	13.9	13.7	13.6	13.9	14.9	16.2	17.5	18.9
Feb	22.1	21.9	21.8	21.3	21.1	20.8	20.4	20.2	20.6	21.4	22.4	23.6	24.8
Mar	31.1	30.5	30.1	29.7	29.6	29.4	29.5	30.3	31.3	32.5	33.7	34.8	36.6
Apr	42.1	41.5	41.2	41.0	40.9	40.6	40.9	41.6	42.7	44.1	45.4	46.9	48.1
May	51.7	50.9	50.5	50.0	49.6	49.3	50.1	52.5	53.8	55.4	57.0	58.4	59.4
June ...	65.7	64.9	64.3	63.8	63.4	63.4	64.8	67.7	69.8	71.9	73.1	74.0	75.1
July	68.6	67.9	67.4	66.8	66.2	65.8	67.3	70.1	72.8	75.0	76.8	78.5	79.4
Aug	65.1	64.5	64.1	63.4	62.9	62.5	63.2	65.8	68.6	71.1	73.3	74.9	75.8
Sept....	57.7	56.6	56.1	55.3	54.4	53.9	54.3	56.2	58.5	61.2	63.2	65.1	67.3
Oct.....	50.3	49.8	49.4	49.0	48.2	47.7	47.4	47.5	48.8	51.1	53.4	55.5	56.8
Nov	37.4	37.0	36.6	36.2	35.6	35.4	35.1	35.2	35.8	37.2	38.6	39.7	40.5
Dec	27.1	26.7	26.5	26.1	25.5	25.2	25.5	25.6	25.9	27.0	28.2	28.9	29.7
Year....	44.5	43.9	43.5	43.1	42.6	42.3	42.7	43.9	45.2	46.9	48.4	49.8	51.0

DODGE CITY, KANS.

[$\lambda = 37° 45'$; $\phi = 100° 0'$.]

Jan	27.9	27.1	26.3	26.3	25.8	25.1	24.5	24.5	24.4	25.4	28.9	33.1	37.3
Feb	24.9	23.9	23.4	22.7	22.3	22.2	21.8	21.2	21.4	24.5	28.2	31.4	34.5
Mar	34.6	33.9	33.0	32.0	30.7	29.5	28.6	27.6	29.4	34.7	41.0	45.3	50.1
Apr	48.2	47.2	45.9	45.0	44.1	43.1	41.9	43.0	46.4	50.9	55.8	59.0	61.7
May	53.8	52.8	51.5	50.5	49.4	49.0	49.0	52.4	57.1	60.3	63.3	65.9	67.8
June ...	66.9	65.9	64.5	63.6	62.7	62.2	62.1	66.7	71.4	74.9	78.7	81.9	84.9
July	72.0	71.1	70.2	69.4	68.1	67.4	67.1	71.1	74.8	78.1	82.2	85.2	88.6
Aug	67.9	67.1	65.9	65.3	64.6	64.0	63.6	64.6	68.7	72.8	76.5	79.2	81.4
Sept....	64.3	63.5	62.7	62.0	61.2	60.8	60.1	60.1	63.7	68.4	72.6	75.9	78.4
Oct	50.0	48.8	47.7	46.9	45.6	45.0	44.3	43.0	45.1	51.3	56.9	61.5	65.2
Nov	36.8	35.5	34.3	33.3	32.1	31.3	30.6	30.0	30.3	33.7	39.0	43.4	47.3
Dec	32.0	31.8	31.1	30.6	30.0	29.8	29.1	28.5	28.8	30.3	35.3	40.1	43.6
Year....	48.3	47.4	46.4	45.6	44.7	44.1	43.6	44.4	46.8	50.4	54.9	58.5	61.7

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

CINCINNATI, OHIO.

[h_t = 153 ft.; local time, 0h 38m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
24.3	25.0	25.4	25.2	24.5	24.1	23.8	23.3	22.4	21.9	21.4	21.5	28.1	14.2	Jan.
35.9	37.2	37.6	37.9	37.5	36.8	36.0	35.1	33.9	33.2	33.2	33.8	42.0	26.1	Feb.
46.5	47.8	48.6	48.8	48.6	47.7	46.5	45.4	44.4	43.4	42.5	42.8	51.1	33.0	Mar.
57.9	58.4	58.9	59.2	58.9	58.2	56.8	55.9	54.9	54.0	53.3	54.4	61.8	45.9	Apr.
65.7	66.6	67.1	67.1	66.8	66.0	64.8	63.7	62.4	61.1	60.0	61.3	69.9	52.5	May.
77.7	79.0	79.6	79.4	78.9	78.3	76.5	74.7	73.0	71.7	70.8	73.1	81.7	64.6	June.
85.2	85.5	86.4	84.9	85.3	83.9	82.5	80.9	79.1	77.8	76.7	79.0	88.5	68.8	July.
81.5	82.3	82.8	82.7	81.8	80.9	79.0	77.2	75.7	74.1	72.7	75.2	84.5	65.0	Aug.
76.1	77.0	77.4	77.5	77.1	75.7	74.1	72.5	71.3	69.9	68.5	70.3	79.2	60.9	Sept.
62.6	63.4	63.8	63.7	63.0	61.3	58.8	57.5	56.3	54.9	53.9	56.5	65.5	47.4	Oct.
45.9	47.1	47.6	47.6	47.0	46.5	45.3	44.5	43.5	42.7	41.7	42.4	49.5	35.2	Nov.
39.9	40.9	41.3	41.1	40.6	39.7	38.8	38.3	37.7	37.2	36.6	37.0	42.9	29.9	Dec.
58.3	59.2	59.7	59.6	59.2	58.3	56.9	55.8	54.6	53.5	52.6	53.9	62.1	45.3	Year.

CLEVELAND, OHIO.

[h_t = 122 ft.; local time, 0h 27m slow.]

20.3	20.5	20.5	20.5	19.9	19.5	19.1	18.4	18.3	17.9	17.5	17.8	25.9	11.4	Jan.
27.5	28.4	28.9	28.7	28.6	28.1	27.6	27.2	26.7	26.4	25.8	26.0	33.5	19.1	Feb.
38.1	38.5	38.2	37.8	37.7	37.2	36.6	35.9	35.3	35.1	34.9	35.1	41.6	27.5	Mar.
49.1	48.7	48.8	49.7	49.2	48.3	47.8	47.1	47.2	46.8	45.8	46.5	54.2	37.9	Apr.
57.1	57.2	57.8	58.2	58.2	58.2	57.4	56.4	55.5	54.7	54.0	55.1	62.0	47.5	May.
72.5	72.8	73.0	74.2	74.3	73.7	72.7	71.3	70.1	68.7	67.7	69.5	77.0	61.6	June.
77.8	78.2	77.9	77.4	77.6	76.7	75.1	73.7	72.3	71.2	70.1	72.6	81.1	64.0	July.
74.3	74.1	73.9	73.9	73.5	72.9	71.8	70.3	68.8	67.4	66.2	69.2	76.8	61.3	Aug.
67.6	68.0	68.5	68.7	68.2	66.6	64.7	63.1	62.3	61.3	60.4	63.2	70.8	55.8	Sept.
59.4	59.4	59.6	59.4	58.7	57.2	54.8	53.8	52.8	51.8	50.9	53.6	61.4	45.4	Oct.
42.5	42.8	42.7	42.5	42.1	41.2	39.7	39.3	38.4	37.9	37.3	38.8	45.6	32.2	Nov.
33.1	33.5	34.1	33.9	33.3	32.8	32.1	31.9	31.9	31.6	31.3	31.3	37.3	24.5	Dec.
51.6	51.8	52.0	52.1	51.8	51.0	50.0	49.0	48.3	47.6	46.8	48.2	55.4	40.7	Year.

DETROIT, MICH.

[h_t = 158 ft.; local time, 0h 32m slow.]

19.6	20.0	20.0	19.4	18.6	18.3	18.0	17.5	17.0	16.6	16.3	16.5	21.5	9.2	Jan.
25.7	25.9	26.2	26.0	25.3	25.4	23.8	23.2	23.0	22.6	22.2	23.0	28.6	15.4	Feb.
37.4	37.6	37.7	37.0	36.1	35.2	34.2	33.5	33.1	32.7	32.8	33.2	40.2	25.4	Mar.
48.7	49.5	49.7	49.7	49.0	47.4	46 2	44.4	43.8	43.1	42.3	44.6	52.2	36.2	Apr.
60.3	60.7	61.1	61.0	60.6	59.9	57.9	56.5	55.5	54.0	52.9	55.4	63.9	46.3	May.
76.2	77.0	77.1	77.0	75.9	74.3	72.0	70.3	68.9	67.4	66.7	70.2	78.6	61.0	June.
79.2	78.8	79.0	78.1	77.7	76.4	74.3	72.6	71.3	70.1	69.0	72.9	82.0	63.5	July.
76.3	76.5	76.9	76.2	75.5	73.5	71.5	69.6	68.1	66.8	65.9	69.7	79.3	60.6	Aug.
68.2	69.2	69.4	68.7	67.4	64.6	62.9	61.5	60.5	59.6	58.7	61.3	70.9	52.3	Sept.
57.5	57.8	57.7	56.9	55.6	53.8	52.6	51.8	51.3	51.0	50.5	52.2	59.9	45.2	Oct.
41.5	42.0	41.8	41.2	40.3	39.6	39.3	38.8	38.3	37.6	37.0	38.2	43.6	33.1	Nov.
30.4	31.0	31.2	30.6	29.9	29.6	29.4	28.8	28.6	28.3	27.6	28.1	33.7	21.7	Dec.
51.8	52.2	52.3	51.8	51.0	49.8	48.5	47.4	46.6	45.8	45.2	47.1	54.5	39.2	Year.

DODGE CITY, KANS.

[h_t = 44 ft.; local time, 1h 40m slow.]

39.2	40.8	42.5	42.9	41.8	38.6	33.9	31.8	30.2	29.2	28.2	31.5	46.6	21.4	Jan.
37.1	38.8	40.0	40.1	40.0	38.1	34.5	32.0	29.8	28.5	26.9	29.5	43.8	18.3	Feb.
52.7	54.8	55.7	56.2	55.5	53.2	47.7	43.1	40.6	38.7	37.5	41.1	58.0	26.4	Mar.
63.5	65.3	66.6	67.3	66.9	65.6	61.0	56.9	54.5	50.9	49.4	54.2	68.2	38.8	Apr.
69.7	71.5	72.0	72.5	72.4	71.3	69.1	63.8	60.9	58.0	56.1	60.8	73.8	47.0	May.
86.6	88.1	88.5	88.5	87.7	86.1	82.9	78.5	74.7	71.4	69.3	75.4	89.3	60.6	June.
90.1	91.7	92.3	91.6	89.7	88.1	85.7	80.5	77.0	75.1	73.7	79.2	93.1	65.8	July.
82.9	84.1	84.4	84.5	83.5	81.4	78.2	74.7	72.1	70.3	68.7	73.6	85.8	61.9	Aug.
80.4	81.7	82.8	83.2	82.4	79.4	75 0	71.0	68.8	67.0	66.0	70.5	84.0	56.9	Sept.
67.7	69.6	70.6	70.9	69.2	64.4	58.8	55.8	53.9	52.0	50.8	55.6	72.1	41.4	Oct.
49.2	50.6	51.3	51.3	49.8	45.9	42.1	39.8	38.6	37.6	36.7	39.6	53.4	27.4	Nov.
46.3	47.9	48.9	49.3	47.3	43.3	39.7	37.7	36.3	34.8	33.6	36.9	51.5	25.6	Dec.
63.8	65.4	66.3	66.5	65.5	63.0	59.0	55.5	53.1	51.1	49.7	54.0	68.3	41.0	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

EASTPORT, ME.

[$\lambda = 44° 54'$; $\phi = 66° 59'$.]

1893.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.
Jan	14.6	14.3	13.9	14.0	13.8	13.6	13.3	13.4	14.3	15.4	16.3	17.4	18.3
Feb	17.3	16.9	16.6	16.4	16.1	15.7	15.5	16.2	17.0	18.4	19.5	20.9	22.2
Mar	26.1	25.6	25.3	25.0	24.9	24 9	25.6	26.5	27.7	29.2	30.6	31.5	32.1
Apr	33.5	33.2	32.5	32.2	32.0	32.6	33.8	35.3	36.2	37.4	38.6	39.5	39.9
May	43.9	43.5	42.7	42.5	42.9	44.1	46.5	47.3	48.5	49.8	50.4	51.1	52.0
June ...	49.7	49.2	49.4	49.6	49.9	51.3	53.1	54.6	56.6	57.8	59.3	60.5	61.8
July....	55.1	54.5	53.8	53.6	54.4	56.4	58.5	60.8	63.4	64.3	65.4	65.5	66.0
Aug	56.7	56.6	56.5	56.4	56.8	58.0	60.0	61.6	63.6	64.7	66.1	66.7	67.9
Sept	49.9	49.6	49.0	48.8	48.5	48.9	50.3	52.4	54.7	55.9	57.2	57.4	58.1
Oct.....	47.1	46.9	46.6	46.4	46.1	45.9	46.6	47.8	49.2	50.5	51.4	52.2	53.2
Nov	36.1	35.8	35.8	35.7	35.7	35.6	35.7	36.5	37.8	39.0	40.0	40.8	41.3
Dec.....	22.2	21.7	21.3	21.3	21.4	21.4	21.3	21.8	22.4	22.7	23.6	24.3	24.6
Year	37.7	37.3	37.0	36.8	36.9	37.4	38.4	39.5	41.0	42.1	43.2	44.0	44.8

GALVESTON, TEX.

[$\lambda = 29° 18'$; $\phi = 94° 50'$.]

Jan	52.2	51.8	51.4	51.1	50.6	50.4	50.0	50.0	50.0	51.2	52.1	53.8	54.6
Feb	57.3	57.2	57.0	56.9	56.7	56.1	55.9	55.5	55.6	56.1	57.1	57.8	58.8
Mar	60.6	60.2	59.7	59.3	58.8	58.5	58.0	58.0	58.4	59.5	61.1	62.1	62.8
Apr	69.5	69.5	69.5	69.5	69.4	69.4	69.2	69.7	70.3	70.9	71.1	71.9	72.5
May	74.4	74.2	74.1	73.9	73.5	73.3	73.4	73.8	74.6	75.2	75.7	76.4	76.9
June ...	79.2	78.7	78.7	78.5	78.1	77.8	77.8	78.5	79.2	79.6	80.8	81.4	81.7
July....	82.5	82.4	82.0	81.9	81.7	81.3	81.4	82.4	83.3	84.3	85.2	85.3	85.8
Aug	81.6	81.4	81.1	80.6	80.5	80.2	80.0	80.1	80.5	81.5	82.4	83.3	83.6
Sept....	79.2	79.0	78.8	78.4	78.2	77.8	77.7	77.9	78.7	79.8	80.7	81.5	82.5
Oct	72.1	71.1	70.5	70.1	69.6	68.9	68.5	68.9	69.7	70.8	72.2	73.5	74.2
Nov	63.5	63.2	62.8	62.1	61.9	61.2	61.0	60.9	61.2	62.1	63.3	64.7	65.6
Dec	60.1	60.0	59.7	59.5	59.2	58.6	58.1	58.1	58.3	59.2	60.4	61.1	61.6
Year ...	69.4	69.1	68.8	68.5	68.2	67.8	67.6	67.8	68.3	69.2	70.2	71.1	71.7

HAVRE, MONT.

[$\lambda = 48° 34'$; $\phi = 109° 40'$.]

Jan	17.5	16.5	16.1	15.9	15.4	15.0	15.1	15.1	14.7	14.8	15.1	16.2	17.6
Feb	4.0	3.9	3.3	3.1	2.9	2.9	2.8	2.7	2.2	2.4	3.0	5.0	6.8
Mar	15.4	14.3	13.4	12.8	11.7	11.3	11.0	10.2	9.9	10.4	12.6	15.5	18.3
Apr	32.4	31.3	30.6	29.6	28.9	28.3	27.9	28.6	30.7	33.3	36.2	38.8	41.1
May	48.8	47.3	46.0	44.5	43.7	42.9	42.4	44.5	48.2	52.4	56.1	58.7	60.7
June ...	54.7	53.1	52.0	51.3	50.4	49.5	49.3	51.6	54.6	57.6	59.8	62.6	64.6
July....	62.8	60.7	59.0	57.6	56.6	55.2	54.1	56.8	61.5	65.8	70.4	73.8	76.7
Aug	62.6	61.1	59.4	57.9	56.3	54.4	52.7	52.8	57.5	61.9	68.1	72.6	76.1
Sept....	48.9	47.5	47.4	46.2	45.5	44.6	43.6	43.4	44.4	47.7	52.5	56.2	59.8
Oct.....	37.0	36.1	35.6	35.8	36.2	36.4	35.5	36.0	35.5	36.5	39.6	42.4	43.8
Nov	23.9	23.2	23.1	22.2	22.0	21.8	21.5	22.0	21.8	23.0	24.4	26.5	28.9
Dec	22.1	21.8	21.4	21.0	20.4	20.3	20.1	19.9	20.6	21.0	21.5	23.2	24.4
Year ...	35.8	34.7	33.0	33.2	32.5	31.9	31.3	32.0	33.5	35.6	38.3	41.0	43.2

KANSAS CITY, MO.

[$\lambda = 39° 5'$; $\phi = 94° 37'$.]

Jan	21.6	20.9	20.4	20.0	19.6	19.2	18.8	18.4	18.2	18.7	19.6	21.4	22.9
Feb	26.2	25.4	24.7	23.9	23.4	23.1	22.9	22.8	22.9	23.4	25.0	26.8	28.7
Mar	37.8	36.8	36.3	35.8	35.0	34.4	34.2	34.0	35.0	36.6	39.2	41.5	43.4
Apr	52.6	51.5	50.3	49.7	49.0	48.1	47.2	47.5	49.2	51.4	53.5	55.1	56.1
May	59.3	58.3	57.5	56.5	55.5	55.2	55.0	56.0	57.5	59.5	61.7	63.2	65.2
June ...	69.5	68.8	67.9	67.0	66.4	65.8	65.7	67.4	69.7	72.2	74.4	76.4	77.3
July....	75.2	74.2	73.2	72.1	71.1	70.9	70.7	71.2	73.1	75.9	78.5	80.7	81.9
Aug	70.2	69.2	68.2	67.5	66.8	66.0	65.5	66.1	68.6	71.7	74.2	76.5	77.9
Sept....	67.7	66.7	66.0	65.1	64.3	63.5	62.9	62.7	65.0	68.7	71.7	74.6	76.4
Oct.....	55.0	53.9	53.1	52.2	51.5	50.6	49.9	49.5	51.3	55.1	59.1	62.7	65.0
Nov	39.8	38.9	37.8	36.7	35.9	35.4	34.9	34.5	34.9	37.2	39.6	42.7	45.2
Dec	33.5	33.0	32.4	31.9	31.7	31.3	30.9	30.9	30.8	31.5	33.0	35.1	36.9
Year ...	50.7	49.8	49.0	48.2	47.5	47.0	46.6	46.8	48.0	50.2	52.5	54.7	56.4

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

EASTPORT, ME.

[h_t=69 ft.; local time, 0h 32m fast.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
18.7	18.9	18.8	18.2	17.8	17.5	17.1	16.3	15.6	14.8	14.3	15.9	21.8	9.4	Jan.
23.1	23.8	23.9	23.3	22.8	21.8	21.0	20.3	19.3	18.9	18.2	19.4	26.2	12.1	Feb.
32.5	32.5	32.3	31.6	30.8	29.9	29.1	28.5	27.9	27.1	26.6	28.5	34.0	22.8	Mar.
40.3	40.2	40.1	39.4	38.6	37.4	36.6	36.0	35.3	35.0	34.5	36.2	42.7	30.8	Apr.
52.1	51.7	51.3	50.7	49.3	48.1	46.9	46.1	45.6	45.2	44.6	47.4	54.9	41.3	May.
61.0	60.5	60.1	58.6	57.3	55.0	54.1	52.6	51.6	50.8	50.5	54.8	64.5	47.4	June.
66.3	66.9	66.5	65.8	64.1	61.5	60.7	59.0	58.0	57.0	56.5	60.6	70.8	52.3	July.
67.7	67.4	66.5	66.2	63.9	61.0	59.9	58.9	58.5	57.8	57.2	61.5	70.3	54.3	Aug.
58.3	57.8	57.1	55.5	54.0	52.9	52.4	51.7	51.1	50.5	49.9	53.0	60.4	47.4	Sept.
53.7	53.5	52.6	51.5	50.7	49.7	49.3	48.6	48.2	47.5	47.0	49.3	55.0	44.7	Oct.
41.3	41.2	40.6	39.4	38.6	38.2	37.9	37.5	37.1	36.9	36.6	38.0	43.2	32.3	Nov.
25.3	25.3	25.1	24.9	24.9	24.5	24.6	24.4	24.2	23.7	22.9	23.3	29.6	15.1	Dec.
45.0	45.0	44.6	43.8	42.7	41.5	40.8	40.0	39.4	38.8	38.2	40.7	47.8	34.2	Year.

GALVESTON, TEX.

[h_t=85 ft.; local time, 1h 19m slow.]

55.7	56.5	56.8	56.9	56.2	55.5	55.1	54.2	53.7	53.4	53.1	53.2	59.4	47.4	Jan.
59.3	59.5	59.8	59.8	59.4	58.7	58.5	57.9	57.6	57.2	57.0	57.6	62.6	52.5	Feb.
63.5	64.2	64.7	64.7	64.6	64.0	63.3	63.0	62.6	62.0	61.6	61.5	67.2	56.3	Mar.
72.7	72.6	72.6	72.5	72.1	71.3	70.8	70.4	70.1	69.9	69.6	70.7	75.3	67.1	Apr.
77.2	77.5	77.6	77.7	77.3	76.6	75.9	75.6	75.5	75.1	75.1	75.4	79.8	71.6	May.
81.9	82.0	82.2	82.4	82.1	81.6	81.0	80.4	79.9	79.8	79.4	80.1	84.6	76.3	June.
85.9	85.7	86.0	85.6	85.3	84.7	83.9	83.3	83.1	82.9	82.7	83.7	88.3	79.7	July.
83.7	84.4	84.3	84.1	83.9	83.4	82.7	82.1	81.9	81.8	81.6	82.1	86.5	77.3	Aug.
82.8	83.1	83.1	82.7	82.3	81.7	80.9	80.4	80.3	79.8	79.7	80.3	85.5	76.6	Sept.
74.9	75.2	75.5	75.5	75.1	74.1	73.4	73.0	72.8	72.5	72.3	72.3	77.3	66.7	Oct.
66.2	66.7	66.7	66.4	65.8	65.8	64.1	64.1	63.9	63.6	63.4	63.7	69.3	58.1	Nov.
62.3	62.8	62.9	62.5	62.0	61.3	60.9	60.5	60.4	60.3	60.1	60.4	65.2	55.6	Dec.
72.2	72.5	72.7	72.6	72.2	71.5	70.9	70.4	70.2	69.9	69.6	70.1	75.1	65.4	Year.

HAVRE, MONT.

[h_t = 15 ft.; local time 2h 19m slow.]

19.6	20.7	21.3	21.1	20.4	18.8	18.4	17.1	16.9	16.5	15.8	17.2	24.1	9.5	Jan.
8.3	9.5	10.3	10.7	11.1	10.4	9.2	8.2	7.2	6.8	6.1	6.0	13.2	−1.2	Feb.
21.1	23.2	24.5	25.5	26.4	25.5	23.5	20.8	18.8	17.6	16.5	17.1	28.5	7.5	Mar.
42.6	43.8	44.6	44.9	44.4	43.9	42.7	40.1	36.9	35.1	33.8	36.3	47.7	26.0	Apr.
62.2	63.4	64.0	64.1	63.6	63.2	63.6	60.0	55.8	52.7	50.5	54.1	67.5	40.8	May.
66.0	67.5	68.7	68.9	69.4	69.3	68.3	66.3	63.7	60.0	56.8	59.8	72.2	46.4	June.
78.5	80.1	80.7	81.8	82.7	81.7	80.8	78.6	74.7	69.0	65.3	69.4	84.5	52.6	July.
78.3	80.4	81.2	82.0	82.3	81.5	80.0	76.1	69.7	65.7	63.8	68.1	84.3	50.5	Aug.
62.0	63.7	65.3	65.9	65.5	64.5	62.1	57.3	54.1	51.9	50.0	53.8	67.9	41.5	Sept.
45.2	46.6	47.3	48.0	47.9	46.4	43.5	40.6	38.8	37.5	36.8	40.2	51.1	30.5	Oct.
29.9	31.0	31.9	32.0	30.9	28.5	27.7	26.0	25.3	24.5	23.8	25.7	34.2	16.3	Nov.
25.9	27.4	28.4	28.5	27.8	26.6	25.5	24.7	24.6	24.3	24.1	23.6	30.2	15.7	Dec.
45.0	46.4	47.4	47.8	47.7	46.7	45.4	43.0	40.5	38.5	36.9	39.3	50.4	28.0	Year.

KANSAS, CITY, MO.

[h_t = 78 ft.; local time 1h 18m slow.]

24.2	25.6	26.5	26.7	26.0	24.9	24.0	23.4	22.9	22.2	21.7	22.0	30.6	13.5	Jan.
30.5	31.4	32.0	32.6	32.5	31.7	31.1	30.2	29.1	28.5	27.7	27.3	35.7	18.1	Feb.
45.2	46.5	47.2	47.4	47.1	45.8	43.9	42.4	41.2	40.5	39.4	40.3	49.8	30.5	Mar.
58.3	59.2	59.7	60.4	60.3	58.7	57.3	56.4	54.9	53.5	52.7	53.8	63.0	44.5	Apr.
66.5	67.8	68.5	68.3	68.0	66.8	65.4	64.6	62.9	61.9	60.7	61.7	70.8	52.3	May.
78.8	78.8	79.7	79.7	79.5	78.0	76.4	74.7	73.2	71.7	70.6	72.9	81.9	63.7	June.
83.7	84.8	85.9	85.7	85.3	84.4	82.9	80.6	79.2	77.6	76.6	78.1	87.1	68.0	July.
78.9	79.5	80.3	80.3	80.1	79.3	77.3	75.7	74.2	72.9	71.5	73.3	83.2	63.2	Aug.
78.6	79.6	80.4	80.3	79.6	78.1	74.9	73.6	71.6	70.4	69.3	71.3	82.4	60.3	Sept.
67.0	68.1	69.1	68.9	67.5	64.9	62.0	60.4	58.6	57.0	55.7	58.7	70.3	47.4	Oct.
47.1	48.1	48.5	48.3	47.4	45.6	43.6	42.4	41.3	40.0	38.8	41.0	50.7	31.3	Nov.
38.4	39.8	40.8	41.1	40.5	39.1	37.7	36.7	36.0	35.4	34.8	35.1	44.6	26.2	Dec.
58.1	59.1	59.9	60.0	59.5	58.1	56.4	55.1	53.8	52.6	51.6	53.0	62.5	43.2	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

KEY WEST, FLA.

[λ = 24° 34′; φ = 81° 49′.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	63.4	63.4	63.4	63.0	63.0	62.9	62.8	63.1	64.1	65.0	65.6	66.2	66.5
Feb	70.9	70.7	70.7	70.8	70.8	70.6	70.6	71.7	73.1	74.0	74.8	75.4	75.5
Mar	71.0	70.8	70.8	70.6	70.5	70.4	70.6	72.0	73.4	74.3	75.2	75.8	76.1
Apr	75.0	74.8	74.3	74.2	74.1	74.0	74.9	76.8	78.0	78.9	79.9	80.7	80.3
May	77.3	77.3	77.0	77.0	76.7	76.7	78.3	79.8	80.6	81.2	81.6	82.0	82.2
June ...	80.2	79.8	79.4	79.3	78.7	78.8	80.0	81.8	82.3	83.2	84.0	84.5	84.6
July ...	81.1	81.0	80.6	80.4	80.3	80.2	81.8	83.8	84.8	85.9	86.4	86.2	86.4
Aug	82.5	82.2	81.7	81.7	81.5	81.2	82.6	84.2	85.1	86.0	86.5	87.1	87.2
Sept....	80.4	80.2	80.4	80.4	80.0	80.0	80.7	82.5	83.5	84.5	85.6	86.3	86.0
Oct	78.3	78.2	78.2	78.0	77.9	77.8	77.7	78.7	79.2	80.3	81.3	81.6	81.3
Nov	73.5	73.4	73.1	73.1	72.9	72.8	72.8	73.6	74.7	75.2	76.3	76.9	77.0
Dec	69.6	69.5	69.4	69.3	69.2	69.1	68.9	69.6	70.5	71.6	72.4	73.1	73.1
Year ...	75.3	75.1	74.9	74.8	74.6	74.5	75.1	76.5	77.4	78.3	79.1	79.6	79.7

MARQUETTE, MICH.

[λ = 46° 34′; φ = 87° 24′.]

Jan	8.9	8.7	8.2	8.2	7.8	7.5	7.2	7.0	6.8	7.2	8.2	9.5	10.4
Feb	11.4	11.0	10.7	10.4	9.8	9.2	9.0	8.7	8.5	9.2	10.5	12.0	13.3
Mar	21.2	20.7	20.0	19.5	18.8	18.2	17.7	17.5	18.7	20.4	22.7	24.0	24.9
Apr	32.4	32.5	31.8	31.7	31.3	31.0	31.0	32.1	32.3	32.7	33.2	33.3	34.0
May	43.7	43.5	43.2	43.0	42.1	41.8	43.2	45.5	46.9	47.6	48.5	48.6	48.4
June ...	61.8	61.2	61.0	60.0	59.7	60.0	61.2	63.6	66.9	69.1	69.5	68.8	69.1
July ...	64.0	63.5	63.0	62.7	62.4	62.3	63.5	66.0	67.8	68.9	69.9	70.4	71.2
Aug	60.1	59.6	59.5	58.9	58.6	58.5	59.4	61.4	63.0	64.9	66.9	68.1	69.4
Sept....	53.0	52.9	52.9	52.7	51.6	51.3	51.3	52.8	54.7	56.1	57.5	59.1	59.8
Oct....	45.0	44.9	44.3	44.0	43.4	43.4	43.0	43.1	44.0	45.4	47.3	48.6	49.5
Nov	32.3	32.3	32.2	31.7	31.5	31.0	30.8	30.4	30.6	31.9	33.1	34.1	35.0
Dec	17.0	17.2	17.2	17.1	16.8	16.6	16.6	16.7	17.1	17.9	18.9	19.9	20.6
Year. ..	37.6	37.3	37.0	36.7	36.2	35.9	36.2	37.1	38.1	39.3	40.5	41.4	42.1

MEMPHIS, TENN.

[λ = 35° 9′; φ = 90° 3′.]

Jan	36.6	35.7	34.9	34.1	33.8	33.2	32.9	32.7	33.1	34.5	36.6	38.4	40.6
Feb	43.1	42.4	41.8	40.8	40.1	39.6	39.2	38.9	39.6	40.5	42.1	43.9	45.7
Mar	48.7	48.0	47.4	46.6	46.0	45.6	45.2	45.2	46.1	47.5	49.3	51.8	53.7
Apr	62.9	61.9	61.4	61.0	59.9	59.4	59.0	59.8	60.8	62.9	64.4	66.3	67.9
May	65.4	64.2	63.4	62.8	62.3	61.8	62.3	64.2	65.6	67.5	69.2	70.9	71.8
June....	73.3	72.2	71.4	70.4	69.9	69.4	70.4	73.0	75.0	77.3	79.1	80.8	82.0
July....	77.6	76.5	75.6	75.3	74.3	73.8	74.2	77.3	79.5	82.1	83.8	85.9	86.9
Aug	74.6	73.9	73.0	72.3	71.8	71.0	70.8	72.6	75.1	78.4	80.3	82.6	83.7
Sept....	69.1	68.2	67.4	66.9	66.3	65.7	65.4	66.7	68.6	71.7	73.4	75.5	77.2
Oct....	57.8	56.7	55.9	55.2	54.4	53.3	52.8	52.7	55.5	59.3	61.9	64.3	66.1
Nov	48.0	47.0	46.0	45.5	44.8	44.2	43.9	43.9	45.1	47.2	49.0	51.4	53.0
Dec....	44.0	43.7	43.2	42.4	41.8	40.9	40.6	40.4	40.9	42.1	43.9	45.9	48.0
Year....	58.4	57.5	56.8	56.1	55.4	54.8	54.7	55.6	57.1	59.2	61.1	63.1	64.7

NEW ORLEANS, LA.

[λ = 29° 58′; φ = 90° 4′.]

Jan	48.0	47.6	46.7	46.1	45.6	45.2	44.9	44.6	45.1	46.5	48.8	50.4	52.2
Feb	59.1	59.1	58.7	58.4	57.9	57.6	57.4	57.4	57.8	59.2	60.7	62.3	64.2
Mar	58.6	58.0	57.0	56.5	56.0	55.6	55.4	55.4	56.4	58.1	60.1	61.7	63.5
Apr	67.5	67.3	67.0	66.6	66.3	66.1	65.9	66.3	67.9	70.0	72.1	73.4	74.8
May	72.6	72.1	71.7	71.3	71.0	70.9	71.3	73.1	74.4	75.8	76.9	77.7	78.9
June ...	76.7	76.4	76.3	76.2	75.9	75.9	75.9	78.2	79.1	81.0	82.2	82.8	83.1
July....	79.5	79.0	78.7	78.4	78.3	78.2	78.5	81.1	82.3	83.7	84.6	84.7	85.3
Aug	78.3	77.8	77.3	76.9	76.6	76.4	76.9	78.2	79.9	81.8	83.0	83.7	83.6
Sept....	76.6	75.9	75.6	75.2	75.0	74.6	74.8	75.5	76.8	78.3	80.5	81.9	82.9
Oct....	66.7	66.0	65.0	64.6	64.3	63.7	63.3	63.9	64.6	66.6	68.8	70.6	72.0
Nov	57.8	57.3	57.1	56.9	56.5	56.1	55.7	55.6	56.7	58.4	60.6	62.2	63.6
Dec	55.9	55.6	55.3	54.9	54.0	53.7	53.5	53.3	53.7	55.4	57.7	59.9	61.4
Year....	66.4	66.0	65.5	65.2	64.8	64.5	64.5	65.2	66.2	67.9	69.7	70.9	72.1

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

KEY WEST, FLA.

[h_t=42 ft.; local time 0h 27m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
66.1	65.8	65.8	65.7	65.0	64.4	64.3	64.1	63.9	64.0	63.6	64.4	68.3	59.9	Jan.
75.8	75.5	75.2	74.9	73.6	72.7	72.2	71.9	71.6	71.5	71.3	72.7	76.8	68.4	Feb.
76.3	76.0	75.7	75.0	73.9	72.5	71.6	71.4	71.2	70.9	70.9	72.8	77.4	68.9	Mar.
80.3	80.0	79.5	79.1	77.9	76.7	76.2	76.0	75.9	75.7	75.5	77.0	81.8	73.3	Apr.
82.6	82.4	82.2	81.7	80.6	79.5	78.9	78.5	77.9	77.9	77.6	79.5	84.1	75.5	May.
84.5	84.5	84.7	83.7	83.2	81.4	80.9	80.9	80.5	80.2	80.3	81.7	86.4	76.9	June.
85.8	85.8	86.1	85.9	85.0	83.5	82.6	82.1	81.6	81.6	81.5	83.3	88.4	78.3	July.
87.9	86.7	87.1	86.5	85.8	84.2	83.8	83.0	82.5	82.5	82.5	84.3	88.6	79.2	Aug.
86.3	85.9	85.6	84.6	83.4	82.5	81.9	81.7	81.7	81.2	80.9	82.8	87.5	77.3	Sept.
81.4	80.9	80.7	80.5	79.6	79.2	79.0	78.9	79.0	78.7	78.3	79.4	82.7	75.6	Oct.
77.1	76.7	76.6	75.9	75.0	74.4	74.5	74.4	73.9	73.9	73.8	74.6	78.3	70.9	Nov.
73.2	73.3	72.7	72.1	71.4	70.9	70.8	70.6	70.4	69.9	69.6	70.8	74.4	67.3	Dec.
79.8	79.5	79.3	78.8	77.9	76.8	76.4	76.1	75.8	75.7	75.5	76.9	81.2	72.6	Year.

MARQUETTE, MICH.

[h_t=67 ft.; local time 0h 49m slow.]

11.1	11.6	11.7	11.3	10.5	9.8	9.5	9.3	9.1	9.4	9.4	9.1	15.5	2.6	Jan.
14.6	15.2	15.8	16.0	15.4	14.5	13.4	12.2	11.9	11.6	11.1	11.9	21.5	3.0	Feb.
25.5	25.8	26.2	26.2	26.1	25.6	24.5	23.8	23.1	22.9	22.3	22.4	29.6	14.5	Mar.
33.7	34.1	34.2	34.3	34.1	33.7	33.0	32.0	31.8	32.0	32.0	32.7	39.2	26.3	Apr.
48.6	48.5	49.0	48.0	47.4	47.1	46.4	45.0	44.2	43.6	43.7	45.7	52.9	38.2	May.
68.5	68.2	67.9	67.1	67.4	67.4	66.0	64.3	64.0	63.5	62.9	65.0	74.4	54.7	June.
71.5	71.2	71.3	70.8	69.9	69.5	67.9	66.1	64.4	64.1	63.7	66.9	76.2	58.1	July.
69.1	68.8	68.8	68.5	67.5	66.5	64.4	62.7	61.6	61.3	60.7	63.7	72.6	55.1	Aug.
60.4	59.9	59.8	59.3	58.5	57.1	55.1	53.9	53.4	53.2	53.1	55.4	62.9	47.8	Sept.
50.2	50.4	50.5	50.0	49.1	47.8	46.6	45.9	45.5	45.3	45.3	46.4	53.5	40.0	Oct.
35.5	35.6	35.2	34.6	33.6	32.6	32.2	31.8	31.4	31.0	30.8	32.6	39.3	26.3	Nov.
21.0	21.0	20.9	20.1	19.2	18.7	18.5	18.2	17.7	17.3	17.2	18.3	23.8	12.4	Dec.
42.5	42.5	42.6	42.2	41.6	40.9	39.8	38.8	38.2	37.9	37.7	39.2	46.8	31.6	Year.

MEMPHIS, TENN.

[h_t = 108 ft.; local time 1h 0m slow.]

42.6	44.2	45.1	44.9	44.1	42.9	41.8	40.7	39.7	39.0	38.2	38.3	47.4	30.2	Jan.
47.4	48.5	49.6	49.5	48.9	47.6	46.3	45.0	44.0	43.6	43.0	43.8	52.5	34.6	Feb.
55.1	56.3	57.0	57.3	57.0	55.9	54.2	53.2	52.1	51.4	50.6	50.9	60.4	42.5	Mar.
69.1	70.3	70.8	70.8	70.6	69.7	68.0	66.5	65.7	64.6	63.6	64.9	74.9	55.6	Apr.
73.2	74.4	74.6	74.7	74.0	72.7	71.1	69.7	68.5	67.5	66.5	68.3	77.9	59.7	May.
83.2	83.2	83.2	82.9	82.2	81.3	79.5	78.0	76.6	75.4	74.4	76.8	86.1	67.6	June.
88.0	87.8	87.4	87.3	86.4	85.5	83.8	82.3	81.0	79.8	78.7	81.3	91.9	72.1	July.
85.2	85.5	85.3	84.7	84.1	82.8	80.9	79.3	77.7	76.4	75.2	78.2	88.6	69.1	Aug.
78.5	79.5	79.5	79.4	78.6	76.9	74.6	73.2	72.0	70.9	70.1	72.3	82.4	63.7	Sept.
68.0	68.9	69.4	69.2	68.2	65.5	63.4	61.8	60.4	59.3	58.1	60.8	72.0	50.2	Oct.
54.8	55.9	56.3	56.0	55.3	53.5	52.3	51.3	50.5	49.6	48.9	49.7	58.4	41.6	Nov.
49.5	50.8	51.6	51.2	50.1	49.3	47.9	47.0	46.3	45.2	44.5	45.5	54.2	37.5	Dec.
66.2	67.1	67.5	67.3	66.6	65.3	63.6	62.3	61.2	60.2	59.3	60.9	70.6	52.0	Year.

NEW ORLEANS, LA.

[h_t = 112 ft.; local time 1h 0m slow.]

53.5	55.0	55.5	55.9	55.3	53.8	52.3	51.4	50.3	49.5	48.9	49.7	58.5	42.0	Jan.
64.9	65.2	65.3	65.1	64.7	63.5	62.0	61.5	60.8	60.1	59.5	60.9	68.9	53.4	Feb.
64.5	65.8	66.5	66.3	65.6	64.3	62.6	61.5	60.8	60.0	59.4	60.4	68.6	53.0	Mar.
75.6	75.5	76.0	75.8	75.3	74.1	71.9	71.0	70.0	69.3	68.5	70.6	79.1	64.0	Apr.
79.5	79.8	79.9	79.8	79.3	78.5	76.7	75.8	74.6	73.8	73.2	75.4	83.2	68.3	May
83.7	83.0	83.5	82.8	82.5	82.0	80.1	79.5	78.6	78.0	77.3	79.6	87.1	73.3	June.
85.6	86.2	85.8	85.3	84.2	83.4	82.2	81.8	80.9	80.6	80.0	82.0	90.3	75.9	July.
84.2	84.7	84.9	84.8	84.4	83.1	82.0	81.1	80.0	79.2	78.5	80.7	88.8	75.1	Aug.
83.2	83.3	83.6	83.6	82.8	81.8	80.1	79.2	78.4	77.7	76.9	78.9	86.9	72.6	Sept.
72.7	73.3	73.7	73.8	73.2	71.8	70.2	69.0	68.1	67.4	66.8	68.3	76.4	61.8	Oct.
64.5	65.4	65.4	65.2	64.0	62.2	60.7	60.2	59.4	58.8	58.4	59.9	67.8	52.8	Nov.
62.4	63.1	63.1	62.6	61.5	59.9	58.6	57.7	57.0	56.3	55.8	57.6	66.2	50.5	Dec.
72.9	73.4	73.6	73.4	72.7	71.5	70.0	69.1	68.2	67.6	66.9	68.7	76.8	61.9	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

NEW YORK CITY, N. Y.

[λ = 40° 43′; ϕ = 74° 0′.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	22.3	21.6	21.2	21.2	21.0	20.7	20.7	21.0	21.1	21.7	23.1	24.3	25.2
Feb	29.2	28.6	28.0	27.8	27.3	27.1	27.1	27.2	27.5	28.2	29.2	30.5	31.1
Mar	35.1	34.6	33.8	33.4	33.0	32.8	32.9	33.7	34.3	35.9	36.8	37.8	38.5
Apr	46.0	45.4	44.7	44.1	43.8	43.5	43.5	44.5	45.4	46.9	48.4	49.5	50.9
May	55.3	54.2	53.9	53.5	52.9	53.0	54.4	56.1	57.7	59.5	61.0	62.0	62.9
June ...	65.0	64.5	64.2	64.0	63.6	63.6	64.5	65.8	67.5	69.5	71.3	72.7	73.8
July....	70.0	69.4	68.9	68.3	67.9	68.0	69.2	71.2	72.9	75.4	76.9	78.9	80.2
Aug	70.1	69.6	69.1	68.7	68.4	68.2	68.9	70.4	71.8	73.4	75.5	77.3	78.5
Sept....	61.4	60.5	59.7	59.4	58.8	58.6	59.0	61.3	62.7	64.1	65.6	67.1	67.9
Oct.....	54.4	53.9	53.0	52.5	52.0	51.9	52.5	53.8	55.4	57.5	59.4	60.6	62.3
Nov	42.1	41.6	41.2	40.8	40.5	40.3	40.2	40.8	41.5	42.9	44.5	45.9	47.4
Dec	34.2	33.8	33.4	33.5	33.0	32.7	32.7	32.8	33.2	34.2	35.0	36.4	37.2
Year....	48.8	48.1	47.6	47.3	46.8	46.7	47.1	48.2	49.2	50.8	52.2	53.6	54.7

PHILADELPHIA, PA.

[λ = 39° 57′; ϕ = 75° 9′.]

Jan	21.6	21.5	21.2	21.1	20.9	20.8	20.7	21.2	21.7	23.1	24.4	25.4	26.1
Feb	30.5	30.3	29.7	29.4	28.9	28.5	28.5	29.0	29.6	30.8	31.8	32.8	33.9
Mar	36.5	36.1	35.5	35.1	34.4	34.1	34.2	35.2	36.5	37.8	38.8	40.3	41.5
Apr	46.7	46.5	46.2	45.7	45.5	45.2	45.5	46.7	47.7	49.9	51.5	53.3	54.5
May	56.1	55.5	55.1	54.6	54.0	54.4	56.0	57.8	59.6	62.0	63.5	65.0	65.7
June ...	67.0	66.4	65.8	65.5	64.9	65.6	66.9	69.1	71.1	73.3	75.5	77.1	78.3
July....	71.2	70.6	69.8	69.3	68.7	69.1	70.7	72.6	74.7	77.0	79.1	80.8	81.5
Aug	70.4	69.8	69.0	68.6	68.1	68.3	69.2	71.0	73.3	75.7	78.3	79.8	81.0
Sept....	61.9	61.4	60.8	60.6	59.7	59.3	60.0	61.4	63.3	65.7	67.6	69.3	70.4
Oct.....	54.4	53.9	53.4	53.0	52.5	52.3	52.4	53.5	55.3	57.3	59.3	61.1	62.2
Nov	42.1	41.7	41.4	41.0	40.3	40.1	39.9	40.3	41.5	43.1	44.8	46.0	47.1
Dec	34.7	34.6	34.3	34.2	34.0	33.7	33.4	33.3	33.6	34.7	35.8	36.8	37.9
Year ...	49.4	49.0	48.5	48.2	47.7	47.6	48.1	49.3	50.7	52.5	54.2	55.6	56.7

PITTSBURG, PA.

[λ=40° 32′; ϕ=80° 2′.]

Jan	21.1	20.8	20.4	20.0	19.7	19.5	19.5	19.6	19.9	20.7	21.9	23.3	24.4
Feb	31.4	31.0	30.6	30.2	29.7	29.4	28.9	29.1	29.5	30.5	31.4	32.9	34.4
Mar	37.3	36.7	36.4	36.1	35.7	35.4	35.6	36.4	37.6	39.6	41.4	43.2	44.5
Apr	49.4	48.7	48.1	47.8	47.5	47.1	47.4	48.5	49.5	51.3	53.3	55.1	56.2
May	56.5	55.9	55.0	54.2	53.6	53.7	55.0	57.9	60.5	62.5	63.8	64.5	65.2
June ...	68.0	67.0	65.9	65.1	64.4	64.3	66.1	69.1	72.0	74.0	75.5	77.1	78.1
July....	69.5	68.5	67.5	66.5	65.6	65.3	67.4	70.7	73.8	76.3	78.5	80.1	81.2
Aug	66.6	65.6	64.3	63.5	62.7	62.5	64.1	67.0	70.7	73.8	76.1	77.7	79.1
Sept....	62.5	61.7	61.1	60.4	59.5	59.0	59.1	60.6	63.2	66.0	68.5	70.4	71.9
Oct.....	51.6	50.9	50.0	49.5	48.9	48.7	48.9	50.2	52.3	55.3	58.7	61.2	62.6
Nov	39.1	38.7	38.2	37.8	37.5	37.6	38.0	38.3	39.7	41.3	43.2	44.8	46.4
Dec	36.8	36.2	36.3	36.1	35.5	35.2	35.4	54.8	34.9	35.8	36.4	37.4	38.0
Year ...	49.2	48.5	47.8	47.3	46.7	46.5	47.1	48.5	50.3	52.3	54.1	55.6	56.8

PORTLAND, OREG.

[λ=45° 32′; ϕ=122° 43′.]

Jan	34.0	33.4	32.9	32.5	32.1	31.7	31.4	31.5	31.2	31.1	30.6	30.8	31.7
Feb	35.3	34.6	34.3	34.0	34.0	33.8	34.1	34.6	34.0	33.9	34.2	35.1	35.9
Mar	43.7	42.7	42.1	41.0	40.8	40.6	40.3	40.6	39.9	39.6	40.4	41.5	43.0
Apr	44.8	44.1	43.5	42.9	42.6	42.2	42.0	41.9	41.8	42.0	42.8	44.2	45.6
May	52.7	51.6	50.4	49.9	48.5	47.9	47.3	47.0	47.1	48.5	50.1	52.5	54.0
June ...	56.0	55.0	53.9	53.2	52.4	51.8	51.4	51.1	51.3	52.2	53.5	55.1	56.5
July....	64.1	62.6	60.8	59.7	58.0	57.1	55.6	54.9	55.3	57.3	58.7	60.9	62.9
Aug	66.1	64.6	62.8	61.2	59.9	58.7	57.3	56.4	56.1	57.3	58.8	60.9	63.6
Sept....	57.8	56.8	55.6	54.8	53.9	53.3	52.6	52.4	51.8	51.8	52.7	54.6	56.8
Oct.....	49.1	48.4	47.5	46.6	45.9	45.4	45.0	44.8	44.5	44.5	45.0	45.9	47.5
Nov	45.1	44.8	44.5	44.3	44.0	43.6	43.1	43.1	42.9	42.8	42.6	43.1	44.2
Dec	43.5	43.5	43.1	42.7	42.6	42.2	42.2	42.2	42.0	41.8	42.0	42.4	42.9
Year ...	49.4	48.5	47.6	46.9	46.2	45.7	45.2	45.0	44.8	45.2	46.0	47.2	48.7

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

NEW YORK CITY, N. Y.

[$h_t = 183$ ft.; local time 0h 4m fast.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
26.4	27.0	27.0	26.5	25.7	25.1	24.4	23.8	23.6	23.4	22.6	23.4	29.3	17.3	Jan.
31.4	32.2	32.9	33.0	32.6	32.2	31.8	31.2	30.8	30.3	29.6	29.9	36.2	23.0	Feb.
39.4	39.9	40.2	39.9	39.5	38.9	38.3	37.8	37.2	36.2	35.9	36.5	42.6	29.7	Mar.
52.1	52.4	52.4	51.9	50.9	49.8	48.9	48.2	47.3	47.1	46.6	47.7	55.1	40.6	Apr.
63.8	64.5	64.4	63.7	62.8	61.6	60.4	59.6	58.4	57.2	56.4	58.7	66.4	51.5	May.
74.2	74.4	73.8	73.1	72.4	70.9	69.7	69.0	68.1	67.1	66.3	68.7	77.2	61.6	June.
80.7	80.7	80.7	80.0	79.3	77.7	75.9	74.7	73.5	72.3	70.9	74.3	83.4	66.2	July.
79.5	79.8	79.5	78.5	77.2	76.0	74.4	73.4	72.5	71.6	70.8	73.5	82.3	66.5	Aug.
68.9	69.1	69.3	68.7	67.9	66.6	65.1	64.0	63.5	62.5	61.7	63.9	71.5	57.2	Sept.
62.6	63.1	62.9	61.4	60.0	59.0	58.1	57.1	56.1	55.3	54.7	57.1	64.8	50.4	Oct.
47.9	48.2	48.3	47.4	46.9	45.6	44.7	44.2	43.9	43.3	42.8	43.9	50.3	38.0	Nov.
38.2	38.6	38.8	37.5	37.0	36.1	35.3	34.5	34.4	34.2	34.0	35.0	41.4	28.8	Dec.
55.4	55.8	55.8	55.1	54.4	53.3	52.2	51.5	50.8	50.0	49.4	51.0	5 .4	44.2	Year.

PHILADELPHIA, PA.

[$h_t = 168$ ft.]

26.8	26.7	26.8	26.2	25.3	24.8	24.4	23.8	23.3	22.8	22.3	23.5	30.2	17.9	Jan.
34.5	35.3	35.2	35.1	34.5	33.7	33.4	32.5	31.8	31.2	30.9	31.7	38.5	25.5	Feb.
42.3	42.8	43.2	43.0	42.4	41.1	40.5	39.8	39.5	38.5	37.7	38.6	46.4	31.9	Mar.
55.4	56.1	56.3	55.9	54.9	53.1	51.9	50.3	49.4	48.5	47.5	50.2	58.9	42.8	Apr.
66.9	67.6	67.4	66.8	65.5	63.5	62.0	60.1	58.7	57.7	57.1	60.5	69.6	52.3	May.
78.7	78.7	78.6	77.6	76.4	74.6	72.9	70.8	69.8	68.8	67.9	71.7	81.4	63.1	June.
82.8	83.5	83.4	82.7	81.4	79.0	77.1	74.9	73.7	72.6	71.9	75.8	86.0	67.3	July.
81.9	82.4	82.1	81.0	79.5	77.4	75.7	74.0	72.7	72.1	71.3	74.7	84.8	66.5	Aug.
71.6	71.9	71.8	70.7	68.7	67.2	66.0	64.6	63.3	62.4	61.9	65.1	73.8	57.7	Sept.
62.9	63.3	63.0	61.9	60.7	59.1	58.2	57.1	56.3	55.6	54.9	57.2	65.4	49.9	Oct.
47.5	47.8	47.3	46.4	45.7	45.1	44.8	44.1	43.6	43.2	42.8	43.7	50.2	37.7	Nov.
38.6	39.5	39.6	38.7	38.0	37.3	36.9	36.4	35.8	35.1	34.7	35.9	42.9	29.8	Dec.
57.5	58.0	57.9	57.2	56.1	54.7	53.6	52.4	51.5	50.7	50.1	52.4	60.7	45.2	Year.

PITTSBURG, PA.

[h_t=115 ft.; local time, 0h 20m slow.]

24.8	25.0	24.9	24.9	24.5	24.3	23.5	23.0	22.7	22.3	21.8	22.2	28.4	14.7	Jan.
35.0	35.7	35.5	35.4	34.7	34.1	33.7	33.3	32.8	32.5	31.6	32.2	40.6	23.0	Feb.
45.4	46.0	46.4	46.3	45.3	43.9	42.9	41.8	40.4	39.7	38.9	40.5	49.1	31.1	Mar.
57.1	57.6	57.9	57.7	57.0	56.0	54.8	53.6	52.3	51.4	50.2	52.3	60.3	42.5	Apr.
65.3	66.5	66.5	66.4	65.4	64.2	62.7	61.4	60.0	58.7	57.5	60.6	69.7	49.5	May.
78.5	78.9	79.6	78.7	77.8	76.1	74.8	72.9	71.4	70.1	69.0	72.2	81.6	62.1	June.
81.9	81.9	82.1	81.7	81.0	79.2	77.5	75.9	74.2	72.5	70.7	74.6	84.9	62.5	July.
80.2	81.0	80.7	80.3	78.7	77.1	74.9	72.9	70.9	69.5	67.8	72.0	82.5	60.4	Aug.
72.8	72.8	73.2	72.4	70.7	68.7	67.1	65.5	64.7	63.7	62.8	65.8	74.8	55.8	Sept.
63.4	63.6	63.5	62.6	61.1	58.9	57.3	55.4	54.0	53.1	57.9	55.6	65.6	45.3	Oct.
46.8	47.9	47.7	46.9	46.1	44.8	43.8	42.6	41.4	40.6	39.9	42.0	50.2	33.0	Nov.
38.3	38.7	38.7	38.2	38.1	37.9	38.4	38.0	37.4	36.9	36.9	36.9	44.3	27.6	Dec.
57.5	58.0	58.1	57.6	56.7	55.4	54.3	53.0	51.8	50.9	50.4	52.2	61.0	42.3	Year.

PORTLAND, OREG.

[h_t=200 ft.; local time, 3h 11m slow.]

33.1	34.4	35.8	36.4	37.1	37.2	36.7	35.9	35.0	34.2	33.5	33.5	39.5	28.7	Jan.
36.4	38.0	39.2	39.8	40.4	40.1	40.0	38.9	38.7	38.0	37.2	36.4	42.9	31.4	Feb.
44.9	46.0	47.0	47.5	48.1	48.0	48.1	47.1	46.0	45.4	44.5	43.7	49.9	38.9	Mar.
46.8	47.6	48.5	48.6	49.2	49.1	48.9	48.0	47.2	46.6	45.8	45.3	51.1	40.7	Apr.
56.0	57.5	58.7	59.7	60.4	60.8	60.4	58.8	57.6	55.8	54.5	53.7	62.5	46.3	May.
58.5	60.2	61.4	62.2	62.9	63.4	63.4	61.9	60.8	59.3	57.8	56.9	65.3	49.9	June.
65.0	66.8	69.0	70.5	71.9	73.0	73.6	72.7	71.7	69.0	66.8	64.1	75.1	53.9	July.
66.5	69.6	71.4	73.3	74.8	75.7	75.9	75.0	72.9	71.0	68.4	65.8	77.3	55.2	Aug.
58.4	60.0	61.3	62.5	63.2	62.9	62.5	61.4	60.3	59.2	58.0	57.3	65.2	50.6	Sept.
49.2	50.9	52.0	53.2	53.8	53.8	53.2	52.1	51.2	50.3	49.4	48.7	56.3	42.7	Oct.
45.5	46.8	47.8	48.4	48.6	48.0	47.5	46.8	46.3	46.3	45.9	45.2	51.4	39.9	Nov.
43.8	44.5	45.1	45.4	45.2	44.8	44.8	44.1	43.6	43 5	43.2	43.4	48.5	39.2	Dec.
50.3	51.9	53.1	54.0	54.6	54.7	54.6	53.6	52.6	51.6	50.4	49.5	57.1	43.1	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

ST. LOUIS, MO.

[λ=38° 38′; ϕ=90° 12′.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	22.9	22.4	21.7	21.5	21.3	21.1	21.1	21.2	21.0	21.8	23.1	24.5	26.0
Feb	30.4	29.7	29.2	28.8	28.3	28.1	28.1	28.1	28.6	29.6	30.3	31.1	32.2
Mar	41.3	40.5	39.6	39.3	38.6	38.2	37.9	38.0	39.0	40.5	42.9	45.1	46.6
Apr	55.3	54.3	53.9	52.6	51.6	50.9	50.8	51.2	52.6	54.4	56.2	58.1	59.3
May	60.7	60.0	59.1	58.3	57.6	57.2	57.7	59.2	60.9	62.7	64.7	66.5	67.1
June ...	71.7	70.6	69.7	69.2	68.7	68.5	69.5	71.1	73.2	75.1	77.1	78.7	79.4
July	76.5	75.9	74.8	74.2	73.6	73.3	74.0	75.6	78.0	79.8	81.4	82.9	84.0
Aug	73.2	72.0	71.0	70.1	69.1	68.4	68.5	69.5	72.3	75.0	77.7	80.1	81.6
Sept....	69.3	68.3	67.5	66.8	66.2	65.4	65.0	65.4	67.3	70.6	73.3	75.8	77.3
Oct.....	56.0	55.4	54.5	53.3	52.4	51.4	50.6	50.5	51.8	54.7	58.3	61.1	63.2
Nov	42.5	41.8	40.8	40.3	39.5	39.0	38.6	38.2	38.6	40.4	42.7	44.8	46.4
Dec	34.9	34.4	34.1	33.5	33.1	33.3	33.1	32.8	33.2	34.1	35.6	37.3	38.8
Year....	52.9	52.1	51.3	50.7	50.0	49.6	49.6	50.1	51.4	53.2	55.3	57.2	58.5

ST. PAUL, MINN.

[λ=44° 58′; ϕ=93° 3′.]

Jan	3.3	2.6	1.6	0.8	0.5	0.2	—0.1	0.1	0.0	0.5	1.6	3.3	5.2
Feb	9.0	8.5	8.3	7.9	7.5	6.9	6.1	5.4	5.7	5.7	7.6	9.6	11.5
Mar	21.8	21.0	20.4	19.7	19.0	18.5	17.7	17.3	17.8	19.7	21.9	23.9	25.7
Apr	37.0	36.5	35.9	35.4	35.2	34.8	34.2	34.5	35.1	36.3	37.9	39.4	40.7
May	52.1	50.7	49.4	48.5	47.7	47.4	47.7	49.1	50.9	52.6	54.5	55.8	56.9
June ...	68.2	67.0	65.8	64.8	64.0	63.5	64.0	66.7	69.0	71.4	73.5	75.0	76.8
July	69.7	68.7	67.5	66.6	65.9	65.3	65.2	67.4	70.2	73.0	75.5	77.3	79.2
Aug	65.0	63.8	63.1	62.2	61.5	60.7	60.3	61.2	64.4	67.7	71.0	73.4	75.0
Sept....	57.8	56.7	55.9	55.0	54.1	53.0	52.5	52.8	54.5	57.9	61.7	64.8	67.3
Oct.....	45.7	45.2	44.7	44.4	43.9	43.3	42.7	42.7	43.6	46.1	48.9	51.4	53.8
Nov	30.0	29.4	28.5	27.8	26.9	26.2	25.4	24.8	24.5	25.2	27.5	30.2	32.9
Dec	12.0	11.6	11.5	11.2	10.8	10.7	10.5	10.8	10.8	11.0	12.0	13.3	14.1
Year ...	39.3	38.5	37.7	37.0	36.4	35.9	35.5	36.1	37.2	38.9	41.1	43.1	44.9

SALT LAKE CITY, UTAH.

(λ=40° 46′; ϕ=111° 54′.)

Jan	25.9	25.3	25.0	24.9	24.7	24.6	24.7	24.8	24.3	23.9	24.3	26.2	29.0
Feb	27.3	26.7	26.3	26.0	26.0	26.0	25.8	25.7	25.0	25.2	26.5	28.2	30.5
Mar	38.0	37.8	37.3	36.8	36.5	36.3	35.9	35.6	35.0	35.7	37.2	38.7	40.2
Apr	45.5	44.5	43.5	43.1	42.5	42.0	41.3	41.0	41.4	43.0	46.0	47.7	49.4
May	52.7	51.6	50.9	49.9	49.3	48.1	47.9	48.8	50.9	53.5	57.2	58.6	60.1
June ...	64.2	63.1	61.3	59.3	58.3	58.1	56.8	58.7	62.2	66.3	70.1	72.7	74.4
July	72.5	70.3	69.0	67.5	67.0	65.5	65.3	65.7	67.9	71.5	76.2	79.1	81.7
Aug	71.5	69.8	68.6	67.5	66.8	66.0	64.3	64.0	65.7	69.1	73.7	77.1	79.5
Sept....	61.1	59.7	58.7	57.9	56.9	56.0	55.2	54.5	54.7	58.1	63.0	66.5	69.1
Oct.....	48.6	48.8	48.2	47.9	47.5	47.6	46.1	46.2	46.4	48.5	51.9	55.2	57.9
Nov	37.0	36.7	36.3	35.6	35.5	35.5	34.9	35.1	34.5	34.6	37.1	40.3	42.7
Dec	35.3	35.0	35.0	35.2	34.8	34.4	34.3	34.2	33.8	33.6	34.2	36.5	38.2
Year....	48.3	47.4	46.7	46.0	45.5	45.0	44.4	44.5	45.2	46.9	49.8	52.2	54.4

SAN DIEGO, CAL.

[λ=32° 43′; ϕ=117° 10′.]

Jan	53.5	53.1	52.4	52.0	51.5	51.4	50.6	50.1	50.3	50.1	52.7	56.8	61.1
Feb	52.9	52.3	51.5	50.9	50.5	49.9	49.5	49.4	49.4	49.5	52.3	55.1	58.7
Mar	52.0	52.6	52.1	52.1	51.7	51.5	51.2	51.0	50.5	51.3	54.5	55.9	57.8
Apr	55.9	55.5	54.7	54.7	54.0	53.8	53.4	52.8	53.0	55.7	58.2	60.0	61.8
May	59.5	59.0	58.2	57.9	58.0	58.0	57.6	56.7	57.8	59.8	61.9	63.5	65.3
June ...	61.8	61.2	60.5	60.5	60.1	60.0	59.7	59.8	60.4	61.7	63.3	64.7	66.2
July	65.1	64.9	64.3	64.1	64.0	64.0	63.9	63.8	64.6	65.8	67.6	69.2	70.8
Aug	68.3	68.0	67.5	67.3	67.1	66.9	66.8	66.6	67.2	68.7	70.1	71.5	73.2
Sept....	62.6	62.3	62.0	61.6	61.2	61.1	61.0	60.9	61.1	62.4	64.2	65.5	67.2
Oct.....	59.1	58.8	58.2	58.3	57.9	57.5	57.3	56.9	56.9	58.6	62.0	64.4	66.6
Nov	54.9	54.5	53.8	53.3	52.9	53.0	52.6	52.6	52.1	52.9	56.7	59.1	61.8
Dec	54.3	54.0	53.5	53.2	52.6	52.2	51.9	51.6	51.3	51.5	55.0	57.7	61.0
Year....	58.4	58.0	57.4	57.2	56.8	56.6	56.3	56.0	56.2	57.3	59.9	62.0	64.3

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

ST. LOUIS, MO.

[h=110 ft.; local time, 1h 1m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
27.6	29.0	29.7	29.7	29.0	28.1	27.5	26.8	26.1	24.9	24.1	24.7	32.5	16.4	Jan.
33.5	34.5	34.9	35.0	34.9	34.2	33.1	32.6	32.4	31.8	30.9	31.3	38.5	23.1	Feb.
48.2	49.2	50.0	50.4	50.2	48.8	47.6	46.3	45.5	44.5	43.6	43.8	52.6	35.1	Mar.
60.8	61.5	62.2	62.5	61.9	60.8	59.8	58.5	57.3	56.9	56.3	56.7	64.6	48.5	Apr.
68.1	69.1	69.7	69.7	69.4	68.4	67.4	66.0	64.7	63.2	61.9	63.7	72.5	55.4	May.
81.1	81.7	81.7	81.2	80.2	79.2	78.2	76.5	75.4	74.3	73.5	75.2	83.8	66.6	June.
85.1	86.0	86.4	86.4	86.2	85.0	83.7	81.6	80.1	78.9	78.0	80.1	88.6	71.8	July.
82.9	83.5	84.2	83.9	82.8	81.9	80.2	78.5	76.8	75.5	74.2	76.4	85.5	66.7	Aug.
78.7	79.6	80.2	80.0	79.2	77.3	75.6	74.2	72.9	71.5	70.5	72.4	81.7	63.4	Sept.
64.8	65.9	66.3	65.7	64.5	62.3	60.5	59.2	58.2	57.0	56.4	58.1	68.1	49.1	Oct.
47.9	48.7	49.5	48.8	48.0	46.9	45.8	45.0	44.0	43.2	42.5	43.5	52.4	35.8	Nov.
40.3	40.9	41.3	41.6	40.9	39.8	39.0	38.5	37.7	36.9	36.0	36.7	44.1	28.6	Dec.
59.9	60.8	61.3	61.2	60.6	59.4	58.2	57.0	55.9	54.9	54.0	55.2	63.8	46.7	Year.

ST. PAUL, MINN.

[h=114 ft.; local time, 1h 12m slow.]

6.8	7.9	8.8	9.0	8.5	7.4	6.8	6.2	5.3	4.4	3.2	3.9	11.3	—5.0	Jan.
13.1	14.2	15.2	16.0	15.7	14.6	13.4	12.2	11.6	10.8	10.5	10.3	18.2	0.0	Feb.
27.1	28.1	28.9	29.5	29.5	28.7	27.5	26.5	25.8	24.5	23.4	23.5	31.6	14.3	Mar.
41.7	42.7	43.4	44.2	44.1	43.5	41.9	40.8	39.8	38.9	37.8	38.8	46.8	31.1	Apr.
58.3	59.5	59.9	60.1	60.0	59.9	59.4	58.3	56.9	55.3	54.3	54.4	63.0	44.7	May.
77.5	78.3	78.7	78.7	78.8	78.1	76.4	74.4	72.5	71.0	69.6	71.8	81.1	61.8	June.
80.5	81.8	82.5	82.2	81.9	81.3	79.8	77.1	74.8	73.0	71.3	74.1	84.2	62.6	July.
76.0	76.9	77.4	77.3	76.5	75.9	73.8	71.9	70.0	68.2	66.6	69.2	80.1	57.8	Aug.
69.0	69.5	70.8	70.7	70.0	68.4	65.7	63.4	61.7	60.2	58.7	61.3	73.3	50.4	Sept.
55.1	55.8	56.3	56.1	54.9	52.7	50.8	49.5	48.4	47.5	46.4	48.8	58.7	39.3	Oct.
34.6	36.4	37.1	37.1	36.0	34.6	33.1	32.0	31.0	29.7	28.9	30.4	38.9	21.0	Nov.
15.3	16.0	16.6	16.5	16.2	15.6	15.3	14.8	14.4	13.8	13.2	13.2	20.5	4.2	Dec.
46.2	47.3	48.0	48.1	47.7	46.7	45.3	43.9	42.7	41.4	40.3	41.6	50.6	31.8	Year.

SALT LAKE CITY, UTAH.

[h=83 ft.; local time, 2h 27m slow.]

31.6	32.7	33.9	34.5	33.9	32.8	30.8	29.5	28.5	27.5	26.8	27.9	35.7	19.5	Jan.
31.6	32.7	33.0	33.8	33.9	33.0	31.3	30.3	29.0	28.4	28.1	28.8	35.9	21.1	Feb.
41.3	42.1	42.8	43.3	43.5	43.5	42.7	41.8	40.8	40.0	39.5	39.3	46.5	32.1	Mar.
50.1	50.2	50.7	51.4	51.6	51.7	51.0	49.9	48.4	47.0	46.3	46.6	55.0	36.8	Apr.
61.6	62.5	63.2	64.3	64.1	63.9	62.1	60.4	57.3	55.3	54.1	56.2	65.7	44.5	May.
76.0	77.3	78.1	78.6	78.7	78.9	78.2	76.1	71.5	68.5	66.7	68.9	80.0	54.1	June.
83.0	83.3	84.2	84.7	85.2	85.6	84.7	83.0	78.7	76.0	73.8	75.9	87.3	62.1	July.
81.0	82.3	83.2	83.7	83.7	82.8	81.4	79.4	76.0	74.2	72.3	74.3	85.5	61.0	Aug.
70.5	72.0	72.2	72.7	72.6	72.3	69.9	66.5	64.3	62.6	60.8	63.7	75.2	50.7	Sept.
59.3	60.2	61.1	60.4	60.0	58.5	55.1	52.9	51.6	50.5	49.7	52.5	62.2	41.9	Oct.
44.1	44.9	45.1	45.2	44.4	42.7	40.8	39.9	39.3	38.1	37.1	39.0	47.6	31.1	Nov.
39.2	40.1	40.5	40.5	39.9	38.6	37.4	36.5	36.2	35.7	35.2	36.4	42.6	30.0	Dec.
55.8	56.7	57.3	57.8	57.6	57.0	55.4	53.8	51.8	50.3	49.2	50.8	59.9	40.4	Year.

SAN DIEGO, CAL.

[h=73 ft.; local time, 2h 49m slow.]

63.9	64.8	65.1	65.0	64.4	62.4	60.6	58.7	57.1	55.0	54.1	56.5	68.8	45.9	Jan.
60.5	61.4	61.6	61.5	61.2	60.0	59.1	57.1	55.6	54.3	53.3	54.9	63.3	45.6	Feb.
58.4	59.0	59.1	59.3	59.1	58.6	57.9	56.4	55.6	54.8	54.2	54.9	61.3	47.1	Mar.
62.8	63.3	63.6	64.1	63.6	62.9	62.1	60.3	59.0	57.8	56.8	58.3	65.2	49.8	Apr.
65.9	66.2	66.3	65.7	65.1	64.5	64.0	62.5	61.4	60.6	60.4	61.5	67.9	54.1	May.
67.1	67.8	68.2	68.4	68.2	67.5	67.3	65.6	64.3	63.5	62.9	63.8	69.7	57.2	June.
71.4	72.4	72.6	72.3	72.1	71.5	70.8	69.0	67.5	66.9	66.6	67.7	73.5	61.2	July.
74.0	74.3	74.5	74.6	74.2	73.5	72.9	71.0	69.7	69.1	68.7	70.2	75.8	64.1	Aug.
68.2	68.9	69.0	69.2	68.9	67.9	66.9	65.1	64.5	63.7	63.0	64.5	70.5	58.6	Sept.
67.9	67.8	67.6	67.4	67.2	65.7	64.1	62.4	61.5	60.2	59.4	61.8	70.9	54.5	Oct.
63.1	63.1	63.5	62.9	61.7	60.6	59.0	57.5	56.4	55.2	54.9	57.0	65.5	49.7	Nov.
62.7	63.2	63.3	63.1	62.5	61.0	59.5	57.4	56.3	55.4	54.5	56.6	66.3	48.6	Dec.
65.5	66.0	66.2	66.1	65.7	64.7	63.7	61.9	60.7	59.7	59.1	60.6	68.2	53.0	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

SAN FRANCISCO, CAL.

[λ = 37° 48′; φ = 122° 26′.]

1893	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	47.5	47.0	46.2	45.8	45.5	44.9	44.5	44.1	44.1	44.2	44.4	45.3	46.5
Feb	49.4	48.9	48.8	48.2	47.9	47.5	47.2	47.0	46.6	46.3	47.1	48.3	49.0
Mar	50.5	50.5	50.2	49.9	49.6	49.4	48.7	48.4	48.3	48.1	49.0	49.9	51.0
Apr	50.3	50.0	49.9	49.8	49.4	49.1	48.9	48.8	48.5	49.5	51.0	52 6	53.9
May	52.8	52.6	52.3	51.8	51.4	51.4	51.1	51.0	50.9	52.5	54 5	56.1	58.0
June ...	52.6	52.3	52.0	51.6	51.4	51.2	50.9	50.7	51.4	53.2	55.6	57.4	59.5
July	52.8	52.7	52.8	52.4	52.0	51.9	51.6	51.5	51.4	52.9	54.8	56.9	59.0
Aug	53.1	53.1	53.0	52.8	52.7	52.5	52.4	52.3	52.3	52.7	53.9	55.2	57.0
Sept	57.1	56.7	56.5	56.3	56.0	55.9	55.7	55.8	55.6	56.0	57.2	58.6	60.3
Oct.....	54.9	54.6	54.6	54.4	54.1	53.9	53.7	53.4	53.2	53.3	54.6	56.1	58.1
Nov	54.8	54.1	54.1	53.5	53.1	52.6	52.2	52.2	52.0	52.1	53.0	54.0	55.2
Dec	52.1	51.9	51.6	51.4	51.1	50.8	50.5	50.3	50.0	49.9	50.2	51.1	52.0
Year ...	52.3	52.0	51.8	51.5	51.2	50.9	50.6	50.5	50.4	50.9	52 1	53.5	55.0

SANTA FE, N. MEX.

[λ = 35° 41′; φ = 105° 57′.]

Jan	29.9	29.3	28.3	27.5	26.8	26.3	25.5	25.2	24.8	25.8	28.6	32.2	34.8
Feb	31.8	31.1	30.7	30.1	29.6	28.6	27.7	27.0	26.5	28.0	31.0	33.3	35.7
Mar	34.5	33.3	32.6	32.2	31.1	30.4	30.2	29.6	29.7	33.3	36.1	38.3	40.8
Apr	44.7	43.6	42.2	41.0	39.8	38.9	37.0	37.7	41.5	45.1	47.1	49.4	51.3
May	50.8	49.8	48.5	47.5	46.6	45.3	44.3	47.1	51.4	54.1	55.9	58.3	60.1
June ...	64.3	63.1	61.9	60.5	59.1	57.6	56.8	59.5	64.5	67.0	69.0	71.4	73.6
July	64.0	63.1	61.9	61.2	60.4	59.5	58.5	61.0	64.8	67.0	69.0	71.2	73.5
Aug	61.7	60.9	59.8	59.2	58.8	58.1	57.1	57.8	61.1	63.0	65.6	67.7	69.8
Sept	56.4	55.9	55.1	53.8	53.2	52.8	52.1	51.5	54.7	58.5	61.0	62.9	64.0
Oct.....	45.6	44.8	43.7	43.0	42.1	41.7	40.9	40.4	41.7	46.4	49.8	52.0	54.0
Nov	35.5	34.9	34.1	33.4	32.6	32.0	31.1	30.3	29.8	32.7	37.1	39.5	41.6
Dec	31.6	31.0	30.4	29.3	28.4	27.9	27.0	26.8	26.8	28.4	31.6	34.2	36.1
Year ...	45.9	45.1	44.1	43.2	42.4	41.6	40.7	41.2	43.1	45.8	48.5	50.9	52.9

SAVANNAH, GA.

[λ = 32° 5′; φ = 81° 5′.]

Jan	40.7	40.4	39.7	39.2	38.8	38.5	38.3	38.5	40.4	43.4	45.8	48.7	50.3
Feb	53.1	52.5	51.8	51.5	51.4	50.9	50.4	51.1	53.0	56.0	58.5	61.1	63.0
Mar	53.7	53.0	52.6	52.0	51.6	51.3	51.1	52.3	54.6	57.5	59.9	61.5	62.9
Apr	64.4	64.1	63.5	63.1	62.7	62.4	63.1	65.8	69.1	72.1	74.0	75.9	76.3
May	67.6	67.1	66.8	66.1	65.6	65.3	66.9	69.8	72.6	74.9	76.9	77.7	78.8
June ...	73.5	72.8	72.6	72.3	71.9	72.1	74.0	77.0	79.4	81.1	82.6	83.5	81.3
July	76.9	76.3	76.2	75.6	75.3	75.3	76.9	80.3	83.2	85.5	88.0	89.3	89.6
Aug	74.8	74.4	74.2	73.9	73.8	73.8	74.7	76.8	79.2	81.2	82.8	83.6	84.0
Sept	73.5	73.2	72.5	72.1	71.6	71.2	71.7	73.9	76.9	79.2	81.3	83.0	84.1
Oct.....	64.4	63.6	63.0	62.5	62.0	61.5	61.5	63.3	66.2	69.5	71.8	73.2	74.5
Nov	53.6	52.9	52.6	52.4	52.3	52.0	52.1	53.1	55.4	58.6	61.1	62.6	63.8
Dec	50.6	49.8	49.0	48.3	47.6	47.4	46.7	47.2	50.2	54.3	57.6	60.0	61.5
Year ...	62.2	61.7	61.2	60.8	60.4	60.1	60.6	62.4	65.0	67.8	70.0	71.7	72.8

WASHINGTON, D. C.

[λ = 38° 54′; φ = 77° 3′.]

Jan	21.8	21.3	20.9	20.6	20.1	19.4	19.1	19.6	20.9	23.1	25.4	27.2	28.5
Feb	33.0	32.5	32.1	31.6	31.2	31.0	30.9	31.3	32.8	34.3	36.0	37.4	38.6
Mar	37.7	36.9	36.3	35.9	35.4	34.7	34.8	36.5	38.0	39.8	41.8	43.5	45.2
Apr	50.0	49.7	49.0	48.2	47.4	47.2	48.0	50.4	52.2	54.2	55.7	56.9	58.4
May	56.5	55.7	54.7	53.9	53.6	53.7	55.9	59.2	61.5	63.3	65.4	66.7	67.8
June ...	66.6	66.1	65.7	65.1	64.8	65.1	67.1	70.1	72.2	74.3	75.4	77.0	77.8
July	70.5	69.9	69.3	68.6	68.0	68.4	70.8	74.0	76.0	78.3	80.5	82.1	83.6
Aug	69.2	68.5	67.6	66.9	66.2	65.8	67.8	71.2	74.0	76.3	78.5	80.2	81.5
Sept	61.9	61.2	60.6	60.1	60.0	59.8	60.7	62.9	64.8	66.6	68.9	70.2	71.5
Oct.....	51.7	50.9	50.5	50.1	49.8	49.5	49.6	52.4	55.1	57.7	59.8	61.9	63.3
Nov	40.1	39.7	39.3	39.1	38.6	38.2	38.3	39.3	40.8	43.2	45.3	47.4	48.6
Dec	35.1	34.3	33.9	33.5	33.6	33.6	33.3	33.9	35.5	37.7	39.6	41.7	43.2
Year ...	49.5	48.9	48.3	47.8	47.4	47.2	48.0	50.1	52.0	54.1	56.0	57.7	59.0

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

SAN FRANCISCO, CAL.

[h_1=161 ft.; local time, 3h 10m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1893.
47.6	49.0	49.7	50.8	51.1	50.9	49.6	49.2	48.6	48.1	47.7	47.2	53.0	41.7	Jan.
50.6	52.2	53.6	54.3	54.5	54.3	53.4	52.2	51.1	50.6	50.4	50.0	56.2	44.4	Feb.
52.0	53.5	54.1	54.3	54.2	54.0	53.5	52.5	51.5	51.2	50.9	51.0	56.2	46.2	Mar.
54.7	55.1	55.1	55.4	55.6	54.9	53.6	52.7	51.4	51.1	50.6	51.8	57.8	47.0	Apr.
59.3	59.9	60.0	59.9	59.7	58.7	57.9	56.2	55.0	53.9	53.3	55.0	62.0	49.5	May.
60.6	60.8	61.0	60.9	60.3	59.6	58.7	57.1	55.5	54.0	53.2	55.5	63.7	49.3	June.
59.8	59.8	59.7	60.3	60 2	59.5	58.0	56.3	55.2	53.8	53.3	55.4	63.3	50.0	July.
58.6	59.4	59.7	60.1	59.0	58.3	57.1	55.5	54.5	53.8	53.6	55.1	62.2	50.9	Aug.
61.9	62.6	62.9	63.0	62.4	61.7	60.7	59.4	58.6	58.1	57.5	58.6	64.7	53.9	Sept.
59.5	61.1	61.6	61.2	60.6	59.8	58.3	56.5	55.8	55.3	54.8	56.4	63.9	51.2	Oct.
56.6	57.5	58.5	59.3	59.5	58.1	56.8	56.5	56.2	55.7	55.2	55.1	61.3	49.8	Nov.
53.1	53.9	55.0	55.4	55.7	55.3	54.4	53.7	53.2	52.9	52.3	52.4	56.9	48.0	Dec.
56.2	57.1	57.6	57.9	57.7	57.1	56.0	54.8	53.9	53.2	52.7	53.6	60.1	48.5	Year.

SANTA FE, N. MEX.

[h_1=47 ft.; local time, 2h 4m slow.]

37.3	39.2	40.7	41.8	41.7	40.1	35.3	33.1	31.9	31.2	31.1	32.0	43.6	23.5	Jan.
37.4	38.7	40.1	41.0	41.2	40.1	37.8	35.0	34.1	33.1	32.2	33.4	43.0	24.6	Feb.
42.6	44.2	45.4	46.4	46.3	45.8	43.9	41.1	38.6	37.0	36.0	37.5	48.5	28.1	Mar.
53.4	54.9	56.5	57.5	58.3	57.8	56.3	53.5	49.8	47.3	45.8	47.9	60.1	35.5	Apr.
62.3	63.3	64.1	64.4	64.6	64.0	63.3	61.1	57.1	54.2	52.4	55.4	67.5	43.1	May.
75.5	77.2	78.3	78.8	79.0	78.3	77.0	75.1	71.1	68.1	66.2	68.9	81.2	55.7	June.
74.7	75.7	74.5	74.6	75.7	74.5	72.3	70.2	68.3	66.1	64.9	67.8	79.7	57.4	July.
71.0	71.6	72.2	72.6	72.0	70.8	69.9	67.0	64.5	63.2	62.5	64.9	75.8	55.8	Aug.
65.5	66.9	67.3	67.5	67.7	66.8	64.8	60.9	59.2	57.8	56.7	59.7	70.1	49.5	Sept.
55.8	57.4	58.3	59.3	58.9	57.5	53.2	50.1	48.5	47.3	46.5	49.1	60.8	38.5	Oct.
43.6	45.3	45.9	46.4	46.3	44.2	40.1	38.0	37.0	36.3	35.9	37.7	48.2	28.5	Nov.
37.9	39.4	40.5	41.5	40.7	38.0	34.7	33.0	32.2	31.9	31.8	33.0	42.8	24.6	Dec.
54.8	56.2	57.0	57.6	57.7	56.5	54.0	51.5	49.4	47.8	46.8	48.9	60.1	38.7	Year.

SAVANNAH, GA.

[h_1=63 ft.; local time, 0h 24m slow.]

51.3	51.8	51.1	50.0	47.5	45.5	44.3	43.1	42.4	41.7	41.0	43.8	53.2	35.4	Jan.
64.4	64.8	64.1	63.0	60.5	58.2	56.4	55.4	55.0	54.5	54.1	56.5	65.9	47.8	Feb.
63.6	63.2	62.6	61.7	59 8	57.7	56.7	55.8	55.2	54.9	54.4	56.6	65.7	48.4	Mar.
76.7	76.4	75.8	74.7	72.6	70.1	68.2	67.1	66.5	65.8	65.3	69.0	79.4	60.7	Apr.
79.3	78.7	78.1	76.7	75.2	73.2	71.4	70.4	69.4	68.8	68.1	71.9	81.7	63.5	May.
84.5	84.0	82.9	81.7	80.0	78.9	77.1	76.1	75.5	75.1	74.4	77.8	86.9	70.2	June.
90.3	89.5	87.4	83.9	82.4	81.0	79.7	78.8	78.2	77.8	77.4	81.4	92.6	73.5	July.
84.0	83.2	81.8	80.8	79.1	77.8	76.8	76.5	76.1	75.9	75.5	78.1	87.1	71.5	Aug.
84.2	83.8	82.9	81.6	80.2	77.6	76.1	75.3	74.8	74.4	73.8	77.0	86.3	69.9	Sept.
75.1	75.2	74.2	72.7	70.3	68.4	67.1	66.4	65.7	64.9	64.4	67.5	76.6	59.9	Oct.
64.4	64.5	63.8	62.2	60.2	58.8	57.8	57.0	56.3	55.7	54.8	57.4	66.1	49.6	Nov.
62.2	62.7	62.2	60.4	57.3	55.8	54.6	53.5	52.8	51.9	51.1	53.9	64.1	44.9	Dec.
73.3	73.2	72.2	70.8	68.8	66.9	65.5	64.6	64.0	63.4	62.9	65.9	75.5	57.9	Year.

WASHINGTON, D. C.

[h_1=58 ft.; local time, 0h 8m slow.]

30.1	30.2	30.0	29.1	27.8	26.6	25.9	25.0	24.0	23.1	22.4	24.3	32.7	16.5	Jan.
40.1	40.6	40.8	39.7	38.9	37.9	36.6	35.6	34.6	33.7	33.4	35.2	42.8	27.4	Feb.
46.9	47.5	47.8	47.4	46.4	44.6	43.1	41.7	41.1	40.3	38.9	40.9	49.8	32.4	Mar.
59.6	59.7	59.7	59.5	58.5	57.2	55.9	54.4	53.4	51.9	50.8	53.7	63.2	44.4	Apr.
68.5	69.2	69.5	69.1	68.1	65.3	62.8	61.0	59.8	58.7	57.6	61.6	72.0	51.2	May.
78.6	79.2	79.2	78.6	77.6	75.3	73.1	70.9	69.2	68.4	67.5	71.9	81.5	63.5	June.
84.1	84.1	84.2	83.3	82.3	80.6	77.2	75.2	74.0	72.6	71.5	76.2	87.1	66.8	July.
82.5	82.5	82.4	81.5	80.6	78.2	75.7	73.8	72.0	71.1	69.8	74.3	84.9	64.4	Aug.
72.3	72.6	72.7	71.9	69.4	66.8	65.3	64.2	63.4	62.7	62.1	65.5	74.5	57.4	Sept.
64.2	64.5	64.4	63.7	61.1	58.0	56.2	55.0	54.0	53.2	52.0	56.2	65.9	47.1	Oct.
49.4	49.4	48.9	48.1	46.4	45.0	44.0	43.0	42.2	41.4	40.8	43.2	51.7	35.4	Nov.
44.0	44.6	44.4	42.8	41.0	39.4	38.6	38.0	36.9	36.1	35.3	37.9	47.0	29.6	Dec.
60.0	60.3	60.3	59.6	58.2	56.2	54.5	53.2	52.0	51.1	50.2	53.4	62.8	44.7	Year.

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WIND—VELOCITY AND FREQUENCY.

BISMARCK, N. DAK.

[λ = 46° 47′ N.; ϕ = 100° 36′ W.] [Seventy-fifth Meridian Time.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.....	6.4	6.4	7.8	8.1	8.1	8.1	7.7	8.3	9.0	8.3	8.8	10.8	11.4	12.2	12.4	12.7	12.7
Feb.....	10.0	9.8	9.5	9.5	9.1	9.1	8.4	8.3	8.9	9.0	9.7	10.9	12.4	12.9	14.7	14.4	13.1
Mar.....	7.5	7.4	7.1	7.0	7.3	7.1	7.1	6.9	7.4	8.2	8.8	11.5	13.0	13.4	13.1	13.5	13.7
Apr.....	10.0	10.6	9.8	9.5	9.8	9.5	9.4	10.9	12.0	12.1	12.7	13.8	15.0	15.8	16.8	16.6	16.6
May	9.0	8.8	8.7	7.2	6.2	6.3	6.8	8.2	10.4	12.4	13.9	14.9	15.2	15.4	15.7	15.8	15.8
June....	7.0	7.8	7.5	7.9	8.0	8.0	7.4	8.0	9.7	11.0	10.8	11.2	13.1	13.3	13.5	13.3	12.6
July	6.5	6.8	6.1	6.3	6.4	6.4	6.1	6.3	7.4	9.4	11.1	12.4	12.5	12.9	12.8	12.1	11.5
Aug	9.3	8.2	8.0	7.5	7.5	7.5	6.8	6.7	7.0	9.4	11.5	12.5	13.8	14.5	14.4	13.8	14.1
Sept	9.7	9.1	9.4	9.8	9.4	8.8	9.2	8.3	9.3	12.0	13.7	15.7	15.8	16.6	16.8	16.5	16.7
Oct.....	8.5	8.5	8.4	8.2	8.0	8.6	9.0	8.5	8.4	9.0	11.0	13.2	14.4	15.0	15.8	16.3	16.0
Nov.....	8.8	9.2	9.6	9.7	10.0	9.8	9.4	9.4	9.2	8.9	10.8	11.4	13.6	15.6	16.0	16.2	14.9
Dec.....	9.9	10.0	9.2	8.8	9.6	9.3	8.1	8.7	8.8	7.8	7.6	8.9	9.2	9.8	10.6	10.6	11.5
Year....	8.6	8.6	8.4	8.3	8.3	8.2	8.0	8.2	9.0	9.8	10.9	12.3	13.3	14.0	14.4	14.3	14.1

BOSTON, MASS.

[λ = 42° 21′ N.; ϕ = 71° 4′ W.]

Jan.....	12.0	11.6	11.1	11.0	10.6	10.2	9.9	10.0	10.5	11.0	11.2	12.2	12.3	12.3	12.5	12.9	12.6
Feb.....	13.9	13.7	13.4	13.5	14.1	14.1	14.0	14.3	15.0	15.1	15.0	14.7	14.2	14.4	14.8	14.6	14.5
Mar.....	11.5	11.2	11.2	11.1	11.6	11.3	11.4	12.4	14.0	14.7	15.4	16.0	15.7	15.7	16.2	15.6	14.8
Apr.....	10.8	11.4	10.4	10.1	9.8	10.2	10.0	11.0	11.9	13.6	13.3	13.6	14.0	13.6	14.0	14.1	13.4
May	10.6	10.7	10.6	9.9	9.3	9.4	9.6	9.9	10.1	10.7	11.8	12.9	13.4	13.7	14.2	13.3	13.5
June....	8.3	8.0	7.5	7.2	7.2	7.4	7.1	8.1	9.1	10.0	10.6	11.4	11.5	12.0	11.9	11.7	11.6
July	9.1	9.2	8.8	8.8	9.3	8.9	9.3	9.9	10.2	10.6	11.3	12.8	13.5	13.1	13.3	12.1	12.1
Aug	8.5	8.6	8.5	8.6	8.8	8.4	9.0	9.5	10.7	10.8	11.2	11.9	12.3	12.4	12.6	12.8	12.2
Sept	9.3	8.7	8.5	8.6	8.8	8.4	9.2	9.9	11.1	12.2	12.4	12.8	13.0	13.0	12.8	12.0	11.4
Oct.....	9.5	9.7	9.7	9.4	9.7	9.7	10.3	10.1	10.7	11.2	11.7	12.1	12.1	12.2	12.5	12.1	11.8
Nov.....	10.7	10.6	10.1	10.5	10.6	10.8	10.4	11.2	11.9	12.1	12.3	12.8	13.5	12.9	13.2	12.4	10.8
Dec.....	10.8	10.0	10.9	9.7	10.0	11.0	11.6	11.9	12.6	13.2	13.4	13.4	13.5	12.4	11.9	11.9	11.8
Year....	10.4	10.3	10.1	9.9	10.0	10.0	10.2	10.7	11.5	12.1	12.5	13.0	13.2	13.1	13.3	13.0	12.5

BUFFALO, N. Y.

[λ = 42° 53′ N.; ϕ = 78° 53′ W.]

Jan.....	12.3	11.9	12.0	12.6	12.2	12.2	12.9	12.0	12.6	12.8	12.7	13.7	14.4	14.5	14.0	13.6	13.4
Feb.....	11.1	11.1	11.4	11.5	11.9	12.5	12.8	12.4	13.6	14.3	14.5	14.5	15.1	15.6	16.2	17.1	17.2
Mar	12.7	12.5	13.3	12.5	12.1	12.6	13.7	13.4	12.9	12.4	12.7	13.6	15.0	15.1	14.7	14.0	13.9
Apr.....	10.8	10.8	11.5	11.5	11.6	11.2	11.9	12.4	13.5	13.2	13.9	15.1	14.9	15.5	15.9	15.2	14.3
May	9.1	9.0	8.8	8.3	8.0	8.5	8.2	9.6	10.3	10.6	11.6	11.8	11.7	11.6	12.1	11.8	11.5
June....	7.0	7.0	7.2	6.6	7.2	6.9	8.1	8.7	9.9	10.5	10.5	10.7	11.5	10.6	10.2	9.9	9.6
July	7.1	6.5	7.0	7.0	7.3	7.5	8.0	8.5	10.3	11.1	11.8	13.1	13.7	14.3	14.3	13.6	13.8
Aug	5.8	5.5	5.9	5.9	6.4	6.7	6.5	6.7	7.4	8.1	9.5	10.8	10.2	10.0	9.6	9.5	9.1
Sept	9.6	9.7	9.7	9.5	9.2	9.0	9.3	9.8	10.2	11.2	11.6	11.7	12.2	12.5	12.3	13.0	12.2
Oct.....	10.9	10.9	11.4	12.0	12.2	12.3	12.5	12.2	13.2	13.7	13.6	13.0	13.1	12.7	12.4	12.4	11.9
Nov.....	16.0	15.6	14.9	13.6	13.2	13.4	13.9	13.9	13.8	14.3	14.7	16.3	17.4	15.8	15.8	16.5	16.6
Dec.....	14.8	14.7	13.7	13.5	13.7	13.5	13.9	13.9	15.3	16.0	16.2	16.3	16.7	16.6	17.1	16.7	16.8
Year....	10.6	10.4	10.6	10.4	10.4	10.5	11.0	11.1	11.9	12.4	12.8	13.4	13.8	13.7	13.7	13.6	13.4

CLEVELAND, OHIO.

[λ = 41° 30′ N.; ϕ = 81° 42′ W.]

Jan.....	14.2	14.1	14.1	14.1	14.3	14.1	13.7	13.7	13.8	14.4	14.6	14.8	15.3	15.3	15.7	14.9	14.1
Feb.....	16.1	16.3	15.5	16.1	16.5	17.4	16.6	16.2	17.2	17.5	17.5	18.8	19.5	18.2	17.9	18.4	17.5
Mar.....	16.7	16.0	15.5	14.2	13.6	13.2	13.7	14.1	15.4	16.4	16.8	18.0	18.8	18.6	18.1	16.9	16.5
Apr.....	16.2	15.8	16.1	14.8	15.5	16.2	16.4	16.0	16.1	17.7	19.7	20.1	19.2	20.0	19.9	18.8	17.2
May	13.0	12.8	12.0	11.6	11.6	11.6	11.8	12.1	13.4	13.6	14.6	15.2	15.7	15.2	15.2	15.0	14.2
June....	10.6	10.7	11.2	10.8	11.0	11.0	10.7	11.0	11.8	12.9	13.5	13.3	14.0	14.6	14.4	14.7	13.2
July	10.5	9.6	10.3	9.6	10.3	10.4	10.5	10.6	10.8	11.5	11.5	12.4	13.5	13.4	13.6	14.1	13.6
Aug	10.1	10.1	10.0	10.0	10.1	10.4	10.5	10.8	10.5	11.1	12.2	12.5	12.8	12.4	13.1	12.8	12.4
Sept	13.8	13.6	14.1	13.7	13.4	13.0	12.8	13.0	13.9	14.8	15.7	17.1	17.7	17.9	17.7	16.4	15.2
Oct.....	14.0	13.6	14.3	14.1	14.2	14.1	14.0	14.3	14.4	13.8	14.5	13.9	14.1	14.2	13.6	14.2	13.4
Nov.....	16.3	15.9	15.6	15.4	15.8	15.7	16.5	15.9	15.8	16.2	16.4	16.4	16.9	16.6	16.7	15.5	14.5
Dec.....	16.5	16.3	16.0	16.8	16.7	17.2	17.2	17.3	17.2	17.0	17.8	17.8	18.9	18.0	18.2	18.3	16.4
Year....	14.0	13.7	13.7	13.4	13.6	13.7	13.7	13.8	14.2	14.7	15.4	15.9	16.4	16.2	16.2	15.8	14.8

WIND—VELOCITY AND FREQUENCY.

BISMARCK, N. DAK.

[h_s = 69 ft.; local time, 1h 42m S.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1893.
12.5	11.3	10.2	9.1	9.4	8.5	7.9	9.5	52	123	26	68	80	49	14	12	334	38	Jan.
13.2	12.5	11.8	11.9	10.8	9.9	10.0	10.8	47	43	19	61	85	33	7	24	368	32	Feb.
13.9	13.0	10.5	9.3	8.1	7.8	7.6	9.6	39	92	34	110	101	42	58	39	216	52	Mar.
16.9	16.7	15.4	13.9	12.5	11.4	11.4	12.9	49	123	80	88	126	44	58	24	161	16	Apr.
15.9	15.1	14.0	12.0	10.7	10.5	10.1	11.6	60	64	58	163	145	96	22	27	152	17	May.
12.0	10.2	10.4	9.1	8.3	8.2	7.9	9.8	48	70	71	56	117	64	50	38	242	12	June.
10.5	9.1	8.6	7.7	7.4	7.5	7.3	8.8	40	63	57	102	171	114	13	14	196	14	July.
14.0	13.6	11.8	10.3	10.3	9.6	9.8	10.5	41	95	56	66	123	147	41	45	167	4	Aug.
16.4	14.8	12.7	11.4	11.2	10.6	9.9	12.2	40	47	14	82	159	107	19	23	267	2	Sept.
14.9	12.5	9.2	8.5	8.3	8.1	9.1	10.7	45	54	39	76	58	75	45	65	331	1	Oct.
13.4	11.5	10.7	9.9	8.6	8.6	8.9	11.0	44	84	15	77	56	51	25	49	359	4	Nov.
11.0	10.3	10.8	10.3	9.6	9.5	10.1	9.6	56	102	18	112	136	47	29	62	236	2	Dec.
13.7	12.6	11.3	10.3	9.6	9.2	9.2	10.6	.....	960	487	1,061	1,357	869	381	422	3,029	194	Year.

BOSTON, MASS.

[h_s = 182 ft.; local time, 0h 16m F.]

12.4	12.4	12.0	12.5	12.6	12.5	12.8	11.6	52	75	28	11	29	39	66	298	198	0	Jan.
14.4	13.4	13.1	12.7	13.8	13.8	14.1	14.1	45	54	55	29	20	71	73	209	161	0	Feb.
13.9	12.7	11.8	11.9	12.3	11.9	12.0	13.2	48	72	86	86	13	50	119	188	130	0	Mar.
12.8	12.1	11.5	11.4	11.1	11.3	11.5	11.9	42	50	67	102	51	78	88	149	135	0	Apr.
13.3	12.2	11.5	12.0	11.6	10.8	10.8	11.5	48	30	64	156	29	105	132	172	56	0	May.
10.7	10.6	9.8	10.4	9.5	8.6	7.9	9.5	30	66	128	213	44	69	122	52	26	0	June.
11.2	10.9	9.7	9.9	9.7	9.5	9.5	10.5	33	19	13	63	38	51	213	226	121	0	July.
11.5	10.9	9.7	9.8	8.9	8.6	8.4	10.2	48	51	47	142	45	62	137	102	158	0	Aug.
10.4	9.9	10.1	10.5	9.9	10.2	9.7	10.5	44	62	38	27	17	95	153	168	160	0	Sept.
10.8	10.5	11.4	10.5	10.2	9.5	9.2	10.7	49	34	68	93	43	68	160	122	156	0	Oct.
10.7	11.0	10.5	10.7	10.7	10.3	10.3	11.3	39	40	51	26	49	25	212	185	132	0	Nov.
12.0	12.3	12.1	11.8	11.5	11.8	11.1	11.8	48	57	16	17	23	28	165	249	189	0	Dec.
12.0	11.6	11.1	11.2	11.0	10.7	10.6	11.4	.....	610	661	965	401	741	1,640	2,120	1,622	0	Year.

BUFFALO, N. Y.

[h_s = 108 ft.; local time, 0h 15m S.]

13.5	13.6	14.0	13.0	13.2	13.0	12.5	13.0	59	15	84	38	80	42	274	94	117	0	Jan.
16.6	16.2	15.1	14.2	13.2	12.8	11.8	13.9	60	18	94	54	58	39	212	77	106	14	Feb.
13.1	12.5	12.5	11.5	11.4	11.4	12.6	13.0	48	34	112	67	63	56	246	88	78	0	Mar.
12.4	11.4	10.3	10.3	10.7	10.9	10.7	12.5	49	18	114	87	83	32	231	80	72	0	Apr.
11.6	10.8	8.9	8.4	8.6	8.1	8.7	9.9	56	31	61	50	23	55	301	141	82	0	May.
9.3	8.1	7.1	6.6	6.6	6.8	7.0	8.5	56	50	43	48	54	84	295	55	91	0	June.
12.9	11.2	9.3	8.6	7.8	7.5	7.0	10.0	48	55	31	15	26	64	301	86	166	0	July.
8.9	7.8	7.4	7.0	7.2	6.7	6.5	7.7	42	55	94	58	44	69	170	58	191	5	Aug.
11.6	10.8	10.2	9.7	9.3	9.5	9.6	10.6	42	39	82	91	61	79	166	32	168	2	Sept.
11.7	11.5	11.4	11.9	12.3	11.7	11.5	12.2	61	37	108	66	59	80	191	32	169	2	Oct.
16.3	16.0	15.1	16.1	16.3	15.7	16.5	15.3	52	4	64	44	50	90	178	74	215	1	Nov.
17.1	16.8	17.1	16.6	15.3	14.9	14.9	15.5	58	77	24	60	56	29	165	156	177	0	Dec.
12.9	12.2	11.5	11.2	11.0	10.8	10.8	11.8	.....	433	911	678	657	719	2,733	973	1,632	24	Year.

CLEVELAND, OHIO.

[h_s = 130 ft.; local time, 0h 27m S.]

14.2	13.7	13.3	14.2	15.2	15.3	14.5	14.4	48	17	16	24	138	85	187	52	225	0	Jan.
16.9	15.5	15.3	15.4	15.9	16.2	16.8	16.9	60	11	53	19	147	49	79	56	258	0	Feb.
15.1	13.5	13.6	14.7	15.1	16.4	16.7	15.7	48	15	130	36	166	46	94	60	197	0	Mar.
15.2	14.5	14.9	14.7	14.8	14.6	15.3	16.7	50	29	166	44	139	56	126	55	105	0	Apr.
14.6	13.1	11.8	11.7	12.3	13.1	12.6	13.2	60	63	133	22	126	78	72	24	225	1	May.
12.2	10.2	9.9	9.7	10.4	10.4	10.5	11.8	42	47	88	31	145	78	83	123	125	0	June.
11.9	11.0	9.7	8.7	9.5	9.5	9.9	11.1	50	112	74	33	179	59	90	79	118	0	July.
11.9	9.8	8.3	8.3	9.4	9.3	9.8	10.8	37	120	88	60	189	43	22	57	165	0	Aug.
14.0	12.5	12.7	13.2	14.1	14.1	13.8	14.5	48	56	62	30	242	76	44	74	135	1	Sept.
12.1	12.1	11.7	12.4	12.7	13.5	14.0	13.6	52	40	30	41	297	55	116	84	72	9	Oct.
14.1	14.5	14.4	15.7	15.6	16.1	15.8	15.8	44	7	24	19	280	74	202	35	79	0	Nov.
15.8	16.2	15.6	16.3	17.3	17.1	16.8	17.0	44	41	22	14	184	170	159	56	98	0	Dec.
14.0	13.0	12.6	12.9	13.5	13.8	13.9	14.3	.....	558	886	373	2,232	869	1,274	755	1,802	11	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

CHICAGO, ILL.

[λ = 41° 53′ N.; ϕ = 87° 37′ W.] [Seventy-fifth Meridian Time.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.....	16.5	15.6	15.0	14.9	14.7	14.2	15.3	15.4	15.7	16.6	17.1	17.2	18.2	18.6	18.7	18.5	17.7
Feb.....	20.5	20.0	20.6	20.2	20.6	20.6	20.5	20.4	20.8	21.0	20.8	21.1	21.5	20.5	20.8	21.3	21.1
Mar.....	18.7	18.1	18.4	19.5	19.5	18.8	19.0	19.1	19.1	19.4	19.3	20.5	21.2	21.1	22.3	22.8	21.5
Apr.....	22.1	22.9	23.5	24.0	23.9	23.4	22.8	23.6	25.4	25.4	24.5	24.7	25.8	25.5	26.4	25.8	25.2
May	16.3	16.4	17.0	17.7	17.8	18.4	18.2	17.8	18.8	19.4	19.4	20.7	22.5	21.9	21.6	21.1	20.3
June....	15.0	14.9	15.1	14.3	13.7	13.8	13.7	13.9	13.8	14.3	15.3	16.0	17.0	16.5	15.8	15.5	15.4
July	13.4	13.5	13.5	14.1	13.5	13.2	13.6	13.4	13.3	14.4	15.0	15.5	15.9	15.6	16.1	15.9	15.8
Aug.....	16.3	14.7	14.6	14.0	13.9	14.4	14.5	13.5	13.1	12.7	13.1	14.2	15.2	15.9	17.1	18.3	17.6
Sept	19.8	19.7	19.8	19.1	18.8	18.6	18.8	18.0	17.8	17.6	18.3	18.5	18.9	19.1	19.7	19.6	19.6
Oct	19.4	17.9	17.7	16.9	17.9	17.8	16.9	16.2	17.0	17.8	18.7	19.2	20.7	20.0	20.1	20.4	20.4
Nov.....	17.1	16.5	16.9	17.1	16.6	16.5	16.4	16.0	17.4	18.1	18.7	19.3	19.3	18.6	18.5	19.5	17.6
Dec.....	21.7	21.8	21.5	21.2	22.8	22.9	23.1	22.3	22.5	22.1	22.4	22.6	23.1	21.6	20.8	21.0	20.6
Year	18.1	17.7	17.8	17.8	17.8	17.7	17.7	17.5	17.9	18.2	18.6	19.1	19.9	19.6	19.8	20.0	19.4

CINCINNATI, OHIO.

[λ = 39° 6′ N.; ϕ = 84° 30′ W.]

Jan.....	7.4	7.7	7.7	8.2	7.9	7.9	7.7	7.5	7.9	8.5	9.2	9.6	9.8	9.6	9.9	9.6	9.4
Feb.....	9.3	9.0	9.3	8.5	8.5	8.8	8.5	8.8	9.7	9.4	9.6	10.7	9.7	10.1	10.0	10.7	11.2
Mar.....	8.2	7.7	7.2	7.2	7.4	7.1	6.8	8.2	9.3	10.3	10.7	10.9	11.8	12.0	12.1	11.9	12.6
Apr.....	8.5	8.1	7.7	7.9	7.8	7.8	7.4	8.7	9.6	10.5	11.3	11.2	11.7	11.6	11.8	11.4	11.4
May	5.2	5.6	5.4	5.1	5.5	5.8	5.9	7.3	8.7	9.2	10.1	11.0	10.8	11.1	11.5	11.5	10.5
June....	3.7	4.3	4.9	4.7	4.2	4.7	4.5	5.4	7.1	7.4	7.9	9.2	9.2	9.6	9.5	9.9	9.4
July	4.4	4.5	4.4	4.0	3.5	4.0	3.9	5.0	6.3	7.0	7.7	8.1	8.6	9.2	9.5	9.5	9.9
Aug.....	4.2	4.0	4.0	3.9	3.8	3.8	4.1	4.8	5.8	6.6	7.9	8.2	8.8	8.5	8.7	8.7	8.2
Sept	5.9	5.4	5.2	4.8	4.9	4.6	4.6	5.5	6.6	7.2	7.5	8.2	9.1	9.8	9.3	9.8	9.0
Oct	5.2	5.0	4.6	4.7	4.5	4.6	4.6	4.7	5.9	7.0	7.3	8.0	8.4	8.7	8.6	8.7	8.6
Nov.....	6.3	6.3	6.1	6.7	7.0	6.8	7.5	7.4	8.2	8.8	9.4	10.1	10.1	10.5	10.1	9.8	9.0
Dec.....	9.5	8.9	8.9	8.9	9.3	8.6	8.4	8.5	8.9	9.1	9.6	9.8	10.6	10.9	11.0	11.0	10.3
Year	6.5	6.4	6.3	6.2	6.2	6.2	6.2	6.8	7.8	8.4	9.0	9.6	9.9	10.1	10.2	10.2	10.0

DETROIT, MICH.

[λ = 42° 20′ N.; ϕ = 83° 3′ W.]

Jan.....	10.9	10.8	10.4	10.2	10.4	10.9	10.8	10.6	11.0	11.5	12.1	13.3	12.8	12.1	13.0	12.3	11.9
Feb.....	11.8	11.4	11.3	12.1	11.8	12.2	12.1	12.3	13.0	13.5	14.2	15.3	15.6	15.1	16.0	15.1	15.0
Mar	12.1	11.5	11.3	11.1	11.2	11.3	11.0	11.0	12.4	12.7	13.6	13.9	14.5	14.6	15.2	14.7	13.6
Apr.....	12.8	12.8	12.7	12.9	13.8	14.7	15.2	15.1	16.5	16.6	16.8	18.0	18.5	19.1	18.6	18.0	17.1
May	9.2	8.5	8.7	8.7	8.6	9.2	8.8	9.7	10.0	10.9	12.3	12.8	13.3	14.1	14.5	14.6	13.7
June....	7.8	7.7	7.7	8.0	8.2	8.7	7.8	8.9	9.4	9.8	10.0	11.8	11.7	12.8	12.8	12.9	12.7
July	6.8	7.1	7.5	7.2	7.9	8.1	7.8	8.2	9.6	10.3	12.2	13.1	13.9	13.9	13.4	12.6	12.5
Aug	6.8	7.2	7.3	7.0	7.3	7.2	7.5	7.0	8.0	9.1	9.5	10.0	10.6	10.7	11.4	10.7	10.6
Sept	8.3	8.5	8.5	8.7	9.5	9.6	9.5	9.4	9.7	11.0	11.6	12.3	12.5	13.3	13.3	13.5	12.7
Oct.....	10.5	10.8	10.1	10.1	11.0	11.1	10.5	10.5	10.9	11.6	11.9	12.5	12.0	12.2	12.8	12.9	12.3
Nov	11.3	11.5	11.4	11.9	12.0	11.3	11.5	11.8	12.0	13.2	13.5	14.3	14.8	14.3	15.0	14.5	13.1
Dec.....	13.1	13.4	13.2	13.8	13.9	13.8	13.2	13.5	13.5	14.9	16.0	16.3	16.6	16.0	16.3	15.1	14.1
Year	10.1	10.1	10.0	10.1	10.5	10.7	10.5	10.7	11.3	12.1	12.8	13.6	13.9	14.0	14.4	13.9	13.3

DODGE CITY, KANS.

[λ = 37° 45′ N.; ϕ = 100° 0′ W.]

Jan.....	8.6	8.4	8.7	9.5	9.7	10.6	10.6	10.2	10.4	10.0	10.9	12.0	12.2	12.6	11.8	11.6	11.1
Feb.....	10.7	11.3	11.0	10.9	11.0	10.6	10.4	10.2	10.7	11.0	12.8	14.4	15.7	16.5	16.6	16.6	16.8
Mar	10.9	10.8	11.4	11.0	10.4	9.3	9.2	9.5	10.7	12.8	14.7	15.7	16.4	17.0	17.2	17.8	17.2
Apr.....	14.6	14.2	14.0	14.0	13.8	13.7	12.1	12.8	14.6	17.6	18.4	19.3	18.9	18.3	17.4	17.2	17.1
May	11.9	12.0	12.7	12.1	12.3	11.5	11.1	11.2	13.0	15.6	16.8	16.5	16.6	16.7	16.9	17.1	16.5
June....	15.2	13.8	12.3	12.3	11.5	11.5	10.2	11.1	14.2	16.0	15.6	16.4	16.8	16.8	17.3	17.6	17.5
July	13.2	11.5	11.0	10.7	9.8	9.6	10.0	10.3	13.5	15.9	16.6	16.4	14.9	14.9	15.0	15.6	16.5
Aug	8.1	7.7	7.6	7.9	8.0	8.2	7.3	7.1	9.3	11.2	12.4	13.0	13.1	13.4	13.5	13.8	13.9
Sept	10.3	9.8	10.6	9.9	9.3	9.4	9.2	8.5	10.0	13.1	15.4	15.8	15.1	14.9	14.7	14.7	14.6
Oct.....	9.9	9.5	9.9	9.6	9.1	9.4	9.0	8.9	8.4	11.2	13.3	13.5	13.6	13.8	14.8	14.8	14.7
Nov	9.3	9.0	10.5	12.1	12.4	11.1	10.5	10.6	10.3	10.6	11.8	13.2	14.9	14.9	15.3	14.6	14.3
Dec.....	9.6	10.5	9.6	9.6	8.9	8.9	9.4	8.8	8.9	9.1	10.9	12.9	13.8	14.0	15.1	15.9	15.7
Year	11.0	10.7	10.8	10.8	10.5	10.3	9.9	9.9	11.2	12.8	14.1	14.9	15.2	15.3	15.5	15.6	15.5

WIND—VELOCITY AND FREQUENCY—Continued.

CHICAGO, ILL.

[h_a = 274 ft.; local time, 0h 50m S.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1893.
17.5	17.9	17.7	18.0	17.6	16.8	16.5	16.8	49	12	12	8	98	65	122	138	287	2	Jan.
21.3	20.5	20.3	20.4	20.9	21.9	21.7	20.8	60	31	43	29	135	51	107	162	114	.....	Feb.
21.4	20.8	19.8	20.3	19.7	19.7	18.9	19.9	56	14	173	37	145	54	137	62	122	.....	Mar.
24.0	23.0	22.6	22.3	23.0	22.1	22.5	23.9	72	12	193	56	157	21	141	60	80	.....	Apr.
19.9	19.4	17.8	16.7	17.4	17.5	16.4	18.8	50	22	288	44	84	59	119	64	64	.....	May.
14.8	14.2	13.2	12.9	12.5	13.3	13.5	14.5	50	24	188	56	128	74	127	61	62	.....	June.
15.2	15.0	13.5	11.5	12.3	13.2	13.2	14.1	40	18	229	68	88	48	159	67	56	.....	July.*
17.4	17.1	16.5	16.2	15.5	14.7	15.5	15.2	50	71	202	78	182	76	57	45	33	.....	Aug.
18.8	17.8	17.3	18.3	19.0	19.9	20.5	18.9	60	45	149	43	148	59	120	63	93	.....	Sept.
19.3	18.5	19.1	19.7	19.9	19.8	20.0	18.8	60	50	30	14	99	204	168	50	129	.....	Oct.
16.7	17.3	17.2	18.1	18.0	17.4	17.0	17.6	51	13	7	18	84	133	170	124	170	1	Nov.
21.5	22.0	21.7	22.0	23.2	22.7	21.6	22.0	53	23	11	7	38	92	262	119	192	0	Dec.
19.0	18.6	18.1	18.0	18.2	18.2	18.1	18.4	.....	335	1,525	458	1,386	936	1,689	1,015	1,402	3	Year.

* Eleven hours missing.

CINCINNATI, OHIO.

[h_a = 157 ft.; local time, 0h 38m S.]

9.2	8.7	8.4	8.7	8.4	8.2	7.7	8.5	28	35	54	112	124	83	120	31	184	1	Jan.
10.8	10.0	10.1	10.0	10.3	10.4	10.1	9.7	38	32	64	66	132	43	86	42	198	9	Feb.
11.5	10.0	9.4	9.7	9.0	9.5	8.9	9.5	35	53	53	45	152	79	135	84	140	3	Mar.
10.3	9.4	8.9	8.8	8.8	8.3	8.1	9.5	34	45	69	72	160	104	112	62	95	1	Apr.
10.5	9.1	7.8	6.7	6.6	6.4	6.4	8.1	36	22	92	34	161	90	115	57	171	2	May.
9.9	7.9	6.4	5.7	4.9	4.7	3.9	6.6	40	56	107	75	175	79	105	13	110	0	June.
9.3	7.4	6.5	5.0	4.8	4.4	5.0	6.3	40	69	78	74	102	76	189	68	82	6	July.
8.7	7.4	6.3	5.7	5.4	4.8	4.0	6.1	25	112	160	100	136	53	58	23	93	9	Aug.
8.6	7.1	6.3	6.1	5.7	5.6	5.7	6.8	30	60	79	106	158	86	93	30	99	9	Sept.
7.9	6.6	5.7	5.4	5.1	5.3	5.2	6.3	36	39	31	150	190	66	66	62	121	19	Oct.
8.0	7.2	6.6	6.9	6.8	7.2	7.0	7.9	26	57	57	84	109	121	80	102	106	4	Nov.
9.3	8.8	8.6	9.1	9.7	9.2	9.4	9.4	36	12	24	41	115	134	166	63	189	0	Dec.
9.5	8.3	7.6	7.3	7.1	7.0	6.8	7.9	.....	592	868	959	1,714	1,014	1,325	637	1,588	63	Year.

DETROIT, MICH.

[h_a = 161 ft.; local time, 0h 32m S.]

11.7	11.8	11.4	10.9	10.5	10.5	10.6	11.3	48	27	74	24	26	74	311	116	92	0	Jan.
14.6	13.0	13.2	12.7	12.2	12.0	12.4	13.2	43	23	117	43	47	54	216	106	66	0	Feb.
13.8	12.1	12.0	12.5	12.1	12.5	12.4	12.6	48	19	193	46	78	19	243	55	91	0	Mar.
16.3	15.4	13.4	13.5	13.5	12.9	13.1	15.3	72	21	216	38	57	22	251	38	77	0	Apr.
13.6	11.5	9.7	9.1	9.4	10.0	10.0	10.9	74	13	196	32	30	46	197	124	105	1	May.
12.7	10.4	8.7	7.4	7.3	7.8	8.0	9.6	36	10	183	83	45	28	208	87	66	10	June.
11.5	9.7	8.3	7.3	6.9	6.7	7.8	9.6	54	63	138	94	47	52	199	67	84	0	July.
9.9	8.1	7.4	7.1	7.4	6.9	6.7	8.4	28	70	166	140	81	37	159	38	50	3	Aug.
11.8	*9.8	9.5	9.3	9.8	9.5	9.0	10.4	37	39	103	100	81	25	139	105	128	0	Sept.
10.8	10.5	10.7	11.2	11.4	11.0	10.9	11.3	48	7	17	121	117	67	209	104	100	2	Oct.
12.3	12.2	11.9	13.0	12.4	12.3	11.6	12.6	37	3	29	47	98	39	252	180	71	1	Nov.
13.4	13.0	13.3	12.8	12.6	12.3	12.3	14.0	45	45	56	35	31	13	311	170	83	0	Dec.
12.7	11.5	10.8	10.6	10.5	10.4	10.4	11.6	.....	340	1,488	803	738	476	2,695	1,190	1,013	17	Year.

DODGE CITY, KANS.

[h_a = 55 ft; local time, 1h 40m S.]

10.0	8.4	7.1	7.4	7.5	7.6	8.0	9.8	50	121	109	42	146	29	40	79	178	0	Jan.
15.3	12.4	9.1	8.8	9.7	9.9	10.0	12.2	42	92	158	8	143	108	44	30	88	1	Feb.
17.4	16.2	13.7	11.9	11.2	11.8	12.5	13.2	48	52	143	38	204	39	86	13	169	0	Mar.
16.7	16.4	14.5	11.9	12.1	13.0	13.4	15.3	58	85	182	37	176	32	42	6	158	2	Apr.
16.5	17.3	15.4	12.5	12.1	12.5	13.0	14.2	50	41	209	53	178	54	55	22	130	2	May.
18.6	18.6	18.2	16.4	14.1	15.3	16.0	15.1	48	51	132	29	347	59	38	7	57	0	June.
17.0	16.6	16.8	15.5	14.2	14.0	13.9	13.9	54	8	146	66	363	80	46	8	26	1	July.
14.1	14.2	13.6	11.6	10.3	10.5	9.5	10.8	42	37	123	80	410	39	23	1	24	7	Aug.
14.9	14.9	13.1	10.9	10.8	11.1	10.5	12.1	41	17	90	50	358	89	69	11	36	0	Sept.
15.0	11.7	9.6	9.7	9.3	9.5	10.0	11.2	46	81	75	43	216	96	57	47	119	10	Oct.
12.8	10.1	8.6	8.0	7.7	8.6	9.2	11.3	54	122	84	3	179	68	57	60	146	1	Nov.
13.9	10.6	9.8	9.6	9.3	9.5	9.7	11.0	52	96	62	6	171	39	87	69	208	6	Dec.
15.2	14.0	12.5	11.2	10.7	11.1	11.3	12.5	.....	893	1,513	455	2,891	732	644	353	1,339	30	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

EASTPORT, ME.

[λ=44° 54′ N.; ϕ=66° 59′ W. [Seventy-fifth Meridian Time.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.....	13.0	12.6	12.8	13.4	13.6	14.3	13.7	13.5	14.3	14.2	14.2	13.1	12.3	12.7	12.8	12.0	11.9
Feb.....	13.3	13.5	12.5	12.4	12.8	13.2	13.0	14.0	14.9	15.7	14.7	14.6	13.5	13.1	13.4	12.6	12.7
Mar	10.7	10.6	10.3	9.8	10.2	10.3	10.0	11.4	11.7	12.1	12.0	12.8	12.5	12.8	12.4	12.7	12.3
Apr.....	10.1	10.1	9.1	9.3	9.9	10.3	11.2	12.4	12.6	12.9	13.1	13.8	14.3	14.4	14.0	13.5	12.4
May	5.9	5.9	6.0	6.8	6.5	6.8	7.1	7.8	8.9	9.9	10.2	11.9	11.9	12.7	12.2	11.6	11.4
June....	4.8	4.7	5.0	4.9	5.2	5.0	5.2	5.4	6.0	6.5	7.4	7.7	8.2	8.8	8.7	8.9	8.4
July	5.9	5.3	5.4	5.6	4.9	5.7	5.6	5.9	6.1	7.5	8.5	8.5	8.7	8.6	8.4	8.2	8.1
Aug	5.7	6.0	6.0	6.4	6.3	5.6	5.6	6.0	6.9	7.2	7.5	8.1	8.1	9.0	9.4	9.6	9.2
Sept....	7.3	8.2	8.2	7.1	7.2	7.0	7.3	8.0	8.8	8.8	9.6	11.3	11.1	11.2	11.7	10.7	9.9
Oct.....	9.7	9.5	9.6	9.9	9.5	10.2	10.1	11.4	12.2	12.9	12.5	13.2	12.1	12.4	12.3	12.8	12.1
Nov	10.4	10.0	10.1	10.7	10.6	11.0	10.4	11.2	11.9	12.7	12.8	13.2	13.1	13.7	13.1	12.8	12.3
Dec.....	12.5	13.4	13.2	12.6	12.9	13.3	13.6	13.2	13.2	13.8	14.6	14.9	15.1	14.2	13.9	12.6	12.2
Year....	9.1	9.2	9.0	9.1	9.1	9.4	9.4	10.0	10.6	11.2	11.4	11.9	11.7	12.0	11.9	11.5	11.1

GALVESTON, TEX.

[λ=29° 18′ N.; ϕ=94° 59′ W.]

Jan.....	11.4	11.3	11.1	10.8	11.0	11.7	11.5	11.6	11.4	11.9	12.3	12.6	12.5	12.2	12.8	12.2	12.0
Feb.....	10.7	10.7	11.5	11.2	11.8	11.7	11.4	11.3	12.2	12.9	13.1	13.4	13.8	12.9	12.3	12.4	12.1
Mar	13.9	13.9	13.7	13.7	13.7	13.4	12.8	12.9	13.0	13.9	13.7	13.5	13.5	12.3	12.1	12.3	11.9
Apr.....	14.7	14.6	14.1	13.4	12.9	12.8	12.1	12.0	12.4	12.7	13.7	13.8	14.0	14.6	15.2	14.8	14.8
May	11.8	11.5	12.2	12.1	11.8	11.8	11.8	11.6	12.5	12.7	13.2	13.3	13.3	12.7	12.6	12.3	12.5
June....	10.6	10.8	10.8	10.6	10.7	10.1	9.8	9.4	10.4	10.8	10.8	11.5	11.9	11.6	12.2	12.6	12.1
July	9.5	9.3	9.2	8.6	8.1	7.6	6.8	7.0	7.9	8.3	8.3	8.4	9.2	9.7	10.6	11.1	11.7
Aug	7.9	7.8	8.3	8.5	7.7	7.5	7.0	7.5	7.6	8.5	8.4	7.9	8.5	9.4	9.1	9.3	9.5
Sept....	11.1	10.6	10.6	10.6	10.4	10.8	10.3	10.4	10.8	11.6	11.9	12.3	12.2	12.1	12.3	12.3	12.1
Oct.....	10.5	10.9	11.1	11.1	11.1	11.0	10.5	10.3	10.5	10.8	11.6	11.8	12.0	11.4	11.4	10.6	10.1
Nov	12.0	11.6	11.4	11.6	11.8	11.7	11.4	10.9	11.4	12.6	12.5	12.5	12.0	11.9	11.4	11.1	11.6
Dec.....	11.3	11.5	11.2	10.6	10.8	10.7	10.6	10.7	10.6	11.0	11.9	12.5	13.1	13.0	12.8	13.0	12.4
Year....	11.3	11.2	11.3	11.1	11.0	10.9	10.5	10.5	10.9	11.5	11.8	12.0	12.2	12.0	12.1	12.0	11.9

HAVRE, MONT.

[λ=48° 34′ N.; ϕ=109° 40′ W.]

Jan.....	10.5	10.3	10.0	10.8	10.7	10.1	10.5	11.1	10.8	11.1	10.4	10.4	11.0	11.2	11.6	12.3	11.8
Feb.....	9.7	9.6	10.3	10.1	11.4	10.7	10.9	10.7	11.0	11.0	11.1	12.2	12.3	11.9	12.3	12.7	11.9
Mar	8.1	8.2	8.2	7.9	7.8	7.3	8.3	7.4	7.5	7.5	8.4	8.7	9.5	10.2	10.4	10.6	10.3
Apr.....	6.9	7.0	7.4	7.5	7.7	7.3	7.9	8.1	8.8	10.5	11.6	12.2	13.1	14.0	14.0	15.0	15.5
May	7.1	7.5	7.4	7.8	7.5	7.7	7.1	7.5	8.3	10.2	11.3	11.8	12.4	13.1	12.4	12.5	12.6
June....	5.8	7.0	6.9	6.5	7.0	7.3	7.7	7.3	7.8	9.5	10.4	11.7	12.2	13.2	13.8	14.6	14.3
July	7.9	7.0	6.4	6.3	5.9	6.5	6.3	6.6	8.5	9.5	9.7	10.3	10.6	10.9	12.8	12.1	11.9
Aug	6.8	6.6	6.8	6.7	6.6	6.3	6.0	6.5	6.5	7.6	8.0	8.5	10.4	10.9	11.5	11.9	10.9
Sept....	7.5	6.8	7.1	8.2	8.1	7.9	6.9	6.5	6.3	7.0	8.0	9.7	10.6	10.6	10.8	10.4	11.2
Oct.....	8.8	8.8	8.1	8.4	9.5	10.0	10.1	9.4	9.5	8.6	9.5	10.1	11.5	11.8	11.5	11.6	11.9
Nov.....	9.4	8.5	9.0	8.8	8.0	9.1	9.5	9.6	9.4	9.8	11.2	11.9	12.8	13.8	14.5	14.5	13.3
Dec.....	9.6	8.9	9.0	9.1	9.1	9.2	10.0	9.9	10.4	10.6	10.5	11.2	12.0	12.4	13.2	12.6	11.5
Year....	8.2	8.0	8.0	8.2	8.3	8.3	8.4	8.4	8.7	9.4	10.0	10.7	11.5	12.0	12.4	12.6	12.3

KANSAS CITY, MO.

[λ=39° 5′ N.; ϕ=94° 37′ W.]

Jan.....	7.1	6.8	7.3	7.5	7.6	7.3	8.0	7.9	8.5	9.5	10.4	10.5	11.4	11.2	10.8	10.8	10.7
Feb.....	9.2	9.0	8.8	9.2	9.6	9.1	9.0	9.0	8.9	10.3	11.3	11.2	12.2	11.5	11.8	11.8	11.2
Mar.....	10.5	9.9	9.4	9.5	9.3	9.3	9.2	9.3	10.1	10.5	11.5	12.0	12.1	12.1	12.9	12.4	13.0
Apr.....	11.0	10.3	10.0	10.3	10.2	10.0	10.0	9.6	10.8	11.3	11.8	12.5	12.4	12.1	12.7	13.3	13.5
May	6.3	6.3	6.3	6.0	5.7	6.3	6.1	5.9	6.7	7.1	7.9	8.0	8.5	8.7	8.8	8.5	8.5
June....	6.3	5.9	5.6	5.5	5.8	5.8	5.9	5.7	6.6	7.6	8.8	9.0	8.7	8.2	8.2	8.1	8.2
July	6.3	7.2	6.8	6.7	6.4	6.0	5.9	6.9	7.4	8.6	9.6	9.4	9.8	9.6	9.5	9.5	10.3
Aug	4.7	4.2	4.7	4.8	4.8	4.1	4.5	4.1	5.5	6.1	7.1	7.5	8.2	8.1	7.9	8.1	7.8
Sept....	7.0	6.7	7.0	7.1	6.9	7.0	7.4	7.2	7.7	8.2	9.8	9.8	10.5	11.3	11.7	11.7	10.8
Oct.....	9.2	8.5	8.8	8.5	8.5	8.8	8.9	8.9	8.9	10.5	11.7	12.0	12.8	12.7	13.1	12.5	11.8
Nov.....	8.0	7.2	7.2	7.3	7.3	7.8	7.8	8.0	8.2	8.7	9.4	9.6	10.4	10.3	11.2	10.9	10.5
Dec.....	11.5	11.4	11.1	10.5	10.3	10.1	10.2	10.0	9.9	10.3	11.5	11.3	11.5	11.5	12.4	11.8	11.1
Year....	8.1	7.8	7.8	7.7	7.7	7.6	7.7	7.7	8.3	9.1	10.1	10.2	10.7	10.6	10.9	10.8	10.6

WIND—VELOCITY AND FREQUENCY—Continued.

EASTPORT, ME.

[h_s = 74 ft.; local time, 0h 32m F.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1893.
12.0	12.0	12.4	12.8	13.2	12.8	12.9	13.0	48	90	49	10	67	18	62	175	269	4	Jan.
12.2	11.6	11.6	11.5	11.9	12.2	12.5	13.1	50	91	55	18	5	30	115	144	214	0	Feb.
11.9	11.4	11.0	11.1	10.6	10.4	11.6	11.4	31	67	89	33	88	34	151	126	151	5	Mar.
11.1	9.5	8.8	8.5	9.4	9.6	9.9	11.3	41	122	63	59	35	125	82	83	141	10	Apr.
10.8	9.8	8.5	8.1	7.7	7.2	6.0	8.8	54	61	113	48	39	159	145	72	78	29	May.
7.4	7.0	7.0	6.8	5.7	5.4	5.0	6.5	36	70	160	49	30	122	219	21	33	16	June.
7.4	6.3	5.9	6.2	5.9	5.7	6.0	6.7	29	46	24	12	24	143	270	127	88	10	July.
8.2	7.3	6.5	7.1	6.9	6.5	6.2	7.1	46	74	108	19	32	66	208	116	96	25	Aug.
9.2	9.2	9.3	9.3	9.1	8.9	8.7	9.0	36	58	78	8	26	56	208	170	108	8	Sept.
11.0	10.6	10.1	9.5	9.0	9.4	10.4	10.9	42	146	72	18	44	60	215	83	105	1	Oct.
11.4	10.5	11.0	10.9	10.2	10.1	10.3	11.4	52	111	68	0	36	18	211	120	155	1	Nov.
12.7	13.2	13.0	12.3	12.5	12.3	12.3	13.2	45	96	88	15	35	16	108	171	214	1	Dec.
10.4	9.9	9.6	9.5	9.3	9.2	9.3	10.2	.....	1,032	967	289	461	847	1,994	1,408	1,652	110	Year.

GALVESTON, TEX.

[h_s = 96 ft.; local time, 1h 19m S.]

11.9	11.2	10.9	10.2	10.7	11.1	11.2	11.6	38	54	108	64	175	80	82	68	113	0	Jan.
11.6	11.4	10.9	11.5	11.3	10.9	11.4	11.8	36	68	147	38	160	114	66	20	59	0	Feb.
11.8	11.0	10.9	12.1	12.5	13.1	13.6	12.9	50	52	136	54	235	106	88	16	57	0	Mar.
14.7	13.9	13.6	14.2	14.7	14.7	15.0	13.9	54	23	37	69	296	223	54	7	11	0	Apr.
12.5	12.0	11.6	11.5	11.7	12.7	12.6	12.3	36	55	81	62	201	224	82	11	28	0	May.
11.9	11.7	11.2	10.7	10.9	10.4	10.2	11.0	30	11	82	78	158	207	120	39	25	0	June.
11.8	11.0	10.3	9.4	9.3	9.2	9.3	9.2	32	10	19	19	116	323	201	17	39	0	July.
9.1	8.6	8.2	7.7	7.6	6.9	7.6	8.2	40	36	92	56	148	189	125	41	55	2	Aug.
11.8	11.6	11.1	11.0	11.0	10.8	11.0	11.3	42	41	130	70	275	110	57	9	25	3	Sept.
8.9	7.7	8.0	8.4	8.7	9.3	10.2	10.3	34	40	191	92	172	93	75	13	61	7	Oct.
11.4	11.1	12.4	12.7	12.3	11.5	11.2	11.7	48	32	138	109	121	121	90	36	72	1	Nov.
12.2	11.8	11.9	12.2	11.6	11.8	11.0	11.7	50	67	47	95	202	111	91	14	116	1	Dec.
11.6	11.1	10.9	11.0	11.0	11.0	11.2	11.3	.....	489	1,208	806	1,259	1,901	1,131	291	661	14	Year.

HAVRE, MONT.

[h_s = 33 ft.; local time, 2h 19m S.]

10.4	9.8	9.9	10.0	9.9	10.4	10.0	10.6	52	78	131	1	0	0	241	174	84	35	Jan.
11.3	10.9	10.8	8.8	8.7	9.6	9.3	10.8	32	52	54	38	1	0	135	265	123	4	Feb.
9.7	9.7	9.1	7.9	7.7	7.4	8.2	8.6	32	50	236	106	0	14	65	140	126	7	Mar.
14.7	12.7	10.9	9.3	8.0	6.9	7.3	10.2	42	138	140	83	41	4	94	99	102	19	Apr.
13.2	11.8	11.2	10.4	9.4	8.1	6.8	9.8	48	58	79	137	51	24	128	151	98	18	May.
13.7	12.4	12.7	11.6	8.8	8.7	7.0	9.9	41	62	59	39	22	4	115	250	157	12	June.
11.8	12.1	12.5	11.4	8.9	7.2	7.9	9.2	52	63	101	86	45	26	76	186	156	5	July.
10.9	10.8	10.5	8.7	6.8	5.4	5.3	8.2	40	75	75	144	32	17	105	132	159	5	Aug.
10.7	9.9	8.6	7.5	6.0	6.9	7.2	8.4	50	87	104	48	9	24	130	176	135	7	Sept.
11.5	10.3	8.8	8.1	9.1	8.1	8.4	9.7	40	40	73	69	17	4	231	220	84	6	Oct.
11.9	11.0	10.7	10.8	9.8	9.6	9.4	10.7	36	56	54	44	0	1	227	212	110	16	Nov.
10.5	10.5	10.3	9.5	9.5	9.5	9.1	10.3	40	17	109	22	37	1	261	186	97	14	Dec.
11.7	11.0	10.5	9.5	8.6	8.2	8.0	9.7	.....	776	1,215	817	255	119	1,808	2,191	1,431	148	Year.

KANSAS CITY, MO.

[h_s = 95 ft.; local time, 1h 18m S.]

10.4	9.3	8.9	9.0	8.7	8.2	7.9	9.0	36	106	110	29	78	42	95	58	224	2	Jan.
10.5	9.3	8.6	8.9	8.6	9.4	9.2	9.9	35	85	49	51	71	96	68	109	142	1	Feb.
12.9	11.3	9.5	10.1	10.6	11.4	11.2	10.8	33	67	87	64	96	75	191	7	157	0	Mar.
13.1	12.2	10.7	9.0	9.5	9.6	10.0	11.1	34	102	171	43	140	48	101	19	95	1	Apr.
8.7	8.7	7.7	6.5	6.3	6.2	6.5	7.2	25	99	136	47	100	111	102	20	123	6	May.
7.7	7.3	6.4	5.2	4.9	5.0	5.2	6.7	27	59	67	67	252	130	38	19	75	13	June.
9.8	9.0	7.6	6.3	6.4	7.0	6.8	7.9	36	60	155	77	186	174	40	12	37	3	July.
7.4	7.0	5.6	4.8	5.2	5.3	4.5	5.9	25	119	241	75	156	85	34	13	19	2	Aug.
9.9	8.3	6.5	7.0	7.4	7.6	7.5	8.4	36	67	167	74	104	142	141	9	16	0	Sept.
10.4	8.4	7.7	8.5	8.9	9.3	9.0	9.9	28	51	96	20	110	172	168	18	102	7	Oct.
9.7	8.2	8.0	8.0	8.9	8.5	8.5	8.7	36	22	31	20	226	116	98	25	181	1	Nov.
10.5	10.3	10.4	10.8	11.4	11.6	11.9	11.0	38	50	63	28	115	178	120	30	160	.....	Dec.
10.1	9.1	8.1	7.8	8.1	8.3	8.2	8.9	.....	887	1,373	595	1,634	1,369	1,196	339	1,331	36	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

KEY WEST, FLA.

[λ = 24° 34′ N.; φ = 81° 49′ W.] [Seventy-fifth Meridian Time.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.....	11.7	12.4	11.9	12.0	11.7	11.4	11.4	11.8	12.0	12.4	12.4	12.0	12.4	13.0	13.5	13.4	12.7
Feb.....	9.7	10.0	9.8	9.4	9.6	9.6	9.0	9.3	10.5	11.4	12.3	12.5	12.7	13.2	12.8	12.3	12.2
Mar.....	11.0	10.7	11.0	10.0	10.0	9.9	10.3	11.0	11.5	11.8	12.2	12.1	11.9	12.2	11.9	11.2	11.7
Apr.....	8.3	7.9	7.9	7.3	7.3	7.0	7.5	8.6	10.1	10.8	11.3	11.1	11.4	11.3	11.7	11.1	10.7
May	7.7	7.2	6.7	5.9	6.3	6.1	6.2	6.9	8.1	8.2	8.9	8.8	8.5	8.2	7.7	7.1	7.9
June....	7.0	6.6	6.3	6.2	6.4	6.5	6.5	7.8	8.9	8.9	9.3	8.7	8.6	9.5	9.2	8.5	8.6
July	6.1	5.7	5.5	5.2	5.3	5.0	5.1	5.9	7.2	8.0	8.1	8.5	8.6	8.7	8.0	8.0	7.7
Aug	6.6	6.7	6.2	6.6	6.7	6.1	6.3	6.8	7.8	8.0	8.5	9.0	8.7	9.0	9.2	8.6	8.1
Sept	8.6	8.0	7.9	8.0	7.6	7.9	7.4	8.2	9.5	10.0	9.8	10.5	9.8	9.2	9.6	9.3	8.8
Oct.....	12.2	11.9	11.9	11.9	11.6	12.2	12.1	12.1	12.2	12.4	12.5	12.6	12.5	12.5	13.1	13.2	13.4
Nov.....	10.0	9.9	10.3	10.1	10.3	10.1	10.3	10.8	11.6	11.3	11.0	11.6	10.9	11.0	10.7	9.8	9.6
Dec.....	12.1	11.8	12.1	11.4	11.5	12.0	11.6	11.6	12.4	13.2	13.2	13.1	14.2	13.9	13.9	13.2	12.8
Year	9.2	9.1	9.0	8.7	8.7	8.6	8.6	9.2	10.2	10.5	10.8	10.9	10.8	11.0	10.9	10.5	10.4

MARQUETTE, MICH.

[λ = 46° 34′ N.; φ = 87° 24′ W.]

Jan.....	10.3	11.2	10.6	11.0	11.1	11.1	10.8	11.2	11.3	11.7	11.6	11.8	11.7	11.4	11.9	11.2	10.5
Feb.....	8.8	9.2	10.0	10.6	11.0	11.5	10.8	11.3	12.4	12.4	12.1	11.9	12.1	12.8	12.3	12.4	12.1
Mar.....	11.4	11.6	11.1	11.7	11.4	11.4	10.7	10.5	11.1	12.5	13.1	13.3	13.5	13.1	12.1	11.5	10.5
Apr.....	9.8	9.8	9.5	9.3	9.2	8.9	8.9	9.6	11.0	11.9	12.6	12.8	12.7	12.8	12.7	11.8	11.6
May	8.4	8.3	8.0	8.0	8.5	8.2	8.4	9.5	10.8	11.1	11 8	11.9	12.5	12.3	12.7	12.2	12.4
June....	9.8	10.2	9.3	8.7	8.6	7.6	7.9	8.2	8.6	10.0	10.6	11.0	10.9	10.5	10.9	10.9	10.8
July	9.1	9.1	9.3	9.4	8.7	8.2	8.6	9.3	9.5	10.6	11.4	11.0	11.0	10.2	10.1	9.9	9.5
Aug	10.2	9.9	10.1	10.1	9.9	10.4	10.0	10.1	10.8	11.1	11.4	12.2	11.8	11.7	11.4	10.4	10.3
Sept	9.6	9.8	9.7	10.1	9.7	9.2	9.5	10.6	11.5	12.1	12.7	12.6	12.6	13.3	13.2	12.2	12.0
Oct.....	11.7	12.1	12.1	12.4	12.2	11.4	11.5	11.4	11.4	12.5	13.0	14.2	14.5	15.0	15.5	14.7	14.5
Nov.....	11.4	11.2	10.7	10.3	10.4	11.0	11.1	10.8	11.4	12.0	12.5	12.8	12.8	13.4	13.1	12.0	11.0
Dec.....	11.9	12.0	11.9	11.5	11.6	12.2	11.7	11.2	10.5	10.5	11.3	11.7	12.2	11.5	11.7	11.0	11.0
Year	10.2	10.4	10.2	10.3	10.2	10.1	10.0	10.3	10.9	11.5	12.0	12.3	12.4	12.3	12.3	11.7	11.3

MEMPHIS, TENN.

[λ = 35° 9′ N.; φ = 90° 5′ W.]

Jan.....	9.1	8.3	8.4	8.5	7.9	7.3	7.6	7.6	7.7	8.9	8.5	8.4	9.4	8.5	8.6	8.8	9.0
Feb.....	10.0	8.7	8.8	9.0	9.4	9.1	9.3	9.1	9.3	10.2	10.6	9.9	10.6	10.5	10.4	9.8	10.5
Mar	9.5	9.0	8.9	8.6	8.9	9.3	9.3	9.1	9.9	10.1	9.7	9.4	10.5	10.3	10.3	10.2	10.4
Apr.....	9.6	9.4	9.2	9.0	8.8	9.2	8.7	8.2	9.5	9.6	9.9	10.4	10.2	10.5	11.0	11.1	10.7
May	6.6	6.8	6.0	6.0	6.2	6.4	7.0	7.5	8.5	8.2	8.3	8.4	9.0	8.8	8.6	8.2	7.8
June....	4.3	4.5	4.5	5.3	5.5	5.1	5.1	5.5	6.4	6.6	7.3	6.7	6.8	6.8	7.3	7.5	7.5
July	4.0	3.8	3.6	4.0	3.7	3.7	3.5	4.4	5.3	6.1	7.0	7.4	7.8	7.7	8.5	9.2	8.8
Aug	3.7	3.9	4.4	4.3	4.0	4.4	4.0	4.0	4.8	5.3	6.0	7.7	8.4	8.4	8.9	9.7	9.3
Sept	5.9	5.8	5.9	5.8	5.8	6.1	5.9	5.8	6.3	7.1	7.7	8.2	8.3	8.3	8.6	8.7	8.4
Oct.....	5.3	5.2	5.3	5.6	5.1	4.9	5.0	5.7	6.2	6.5	7.2	7.4	7.7	7.3	7.7	7.6	7.8
Nov.....	6.6	6.2	7.0	6.2	6.1	6.6	6.6	7.0	7.5	7.6	8.0	8.1	8.7	7.9	8.2	8.1	8.2
Dec.....	7.2	7.7	7.9	7.6	7.5	7.5	8.0	7.6	7.9	9.1	8.9	9.3	9.1	8.6	9.1	8.8	8.9
Year	6.8	6.6	6.7	6.7	6.6	6.6	6.7	6.8	7.4	7.9	8.3	8.4	8.9	8.6	8.9	9.0	8.9

NEW ORLEANS, LA.

[λ = 29° 58′ N.; φ = 90° 4′ W.]

Jan.....	9.0	8.6	8.8	9.0	8.9	9.1	9.0	8.4	8.8	10.0	10.8	10.8	11.5	11.3	10.8	11.1	10.8
Feb.....	9.6	8.7	8.7	8.7	8.6	9.0	9.7	9.4	9.4	10.6	12.0	12.4	13.2	12.4	13.0	13.3	12.5
Mar	10.7	10.8	10.4	10.6	10.0	11.0	10.4	9.9	10.8	11.7	12.3	13.2	13.3	12.0	12.3	12.1	11.9
Apr.....	8.8	8.7	8.2	8.0	7.4	7.6	8.0	7.5	8.9	10.7	11.1	11.8	12.8	12.7	13.0	13.3	12.5
May	8.2	8.3	7.5	7.4	6.7	6.6	6.8	7.2	9.2	10.0	10.7	10.8	10.7	11.0	10.9	10.8	11.1
June....	6.3	6.5	6.1	6.1	6.5	6.6	5.8	6.8	8.5	9.8	10.0	10.6	10.8	10.8	10.9	10.9	11.7
July	4.3	4.1	4.1	4.4	4.1	3.7	3.7	4.0	6.2	7.2	7.5	7.7	7.8	7.7	7.8	7.5	7.4
Aug	6.5	6.7	6.4	6.1	5.7	5.2	5.3	5.4	7.0	8.3	8.6	9.1	9.9	9.4	9.4	9.4	9.1
Sept	7.2	6.8	6.8	7.1	6.9	6.7	6.5	6.9	8.7	9.5	9.6	9.3	9.1	9.6	9.9	10.1	9.8
Oct.....	9.5	9.5	9.1	8.8	9.3	9.2	9.0	9.1	9.9	10.5	10.4	10.6	10.5	10.7	11.4	11.6	11.1
Nov	8.1	8.3	7.8	7.8	7.5	7.6	7.0	7.0	7.5	8.2	8.8	9.2	9.6	10.0	10.4	11.0	11.1
Dec.....	7.9	8.0	8.1	8.3	8.8	8.4	8.2	7.9	7.9	8.9	10.0	10.9	11.7	12.1	12.3	12.1	11.4
Year	8.0	7.9	7.7	7.7	7.5	7.6	7.4	7.5	8.6	9.6	10.2	10.5	10.9	10.8	11.0	11.1	10.9

WIND—VELOCITY AND FREQUENCY—Continued.

KEY WEST, FLA.

[h_a = 50 ft.; local time, 0h 27m S.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1893.
12.7	12.6	12.8	12.5	12.0	11.7	11.5	12.2	48	165	233	93	50	17	62	39	83	2	Jan.
11.3	10.6	10.2	10.7	10.1	10.3	10.1	10.8	32	70	101	259	137	42	33	2	28	0	Feb.
12.3	11.4	10.9	10.7	10.5	10.9	10.9	11.2	50	85	118	123	208	46	63	17	83	1	Mar.
10.4	9.8	10.0	9.9	9.7	9.5	9.3	9.6	24	66	74	339	164	25	20	0	28	4	Apr.
8.0	7.6	7.8	8.0	7.9	8.3	7.8	7.6	38	50	85	193	255	40	50	22	40	9	May.
8.0	7.8	7.1	6.9	6.3	6.4	7.0	7.6	29	17	31	121	288	86	106	20	44	7	June.
7.6	7.4	6.6	6.6	7.1	6.5	6.2	6.9	34	32	31	365	201	62	23	11	14	5	July.
7.8	7.5	7.2	6.5	6.7	6.2	6.5	7.4	35	35	50	122	186	70	131	96	51	3	Aug.
8.3	7.0	7.3	8.0	7.9	8.4	9.0	8.6	28	15	109	312	154	47	46	18	12	7	Sept.
13.4	13.1	13.5	13.5	13.3	13.3	12.9	12.6	32	81	343	145	58	6	49	28	31	3	Oct.
8.9	9.2	9.5	9.3	9.6	10.2	10.7	10.3	34	106	341	128	27	51	21	4	40	2	Nov.
12.1	11.6	12.0	12.5	12.5	13.3	13.1	12.5	38	52	417	121	85	20	25	1	22	1	Dec.
10.1	9.6	9.6	9.6	9.5	9.6	9.6	9.8	.....	774	1,933	2,321	1,813	512	629	258	476	44	Year.

MARQUETTE, MICH.

[h_a = 95 ft.; local time, 0h 49m S.]

9.5	9.8	9.7	9.8	9.6	9.9	10.0	10.8	42	22	5	14	43	84	59	208	309	0	Jan.
10.7	10.0	10.2	10.1	10.5	10.1	9.6	11.0	38	105	19	41	73	115	61	101	156	1	Feb.
9.7	8.6	8.0	8.1	9.3	10.4	11.2	11.1	42	170	79	20	59	69	57	114	174	2	Mar.
11.0	9.7	8.7	7.8	7.2	8.0	8.8	10.2	44	137	125	72	103	16	29	87	137	14	Apr.
11.3	9.9	8.0	7.5	7.1	7.5	8.1	9.8	44	69	68	31	53	87	41	44	347	4	May.
9.7	8.5	7.6	6.4	7.3	8.6	9.9	9.3	43	75	96	42	82	140	109	70	103	3	June.
8.1	7.1	6.2	5.7	7.3	7.3	8.2	9.0	35	98	98	22	62	101	89	100	174	0	July.
9.6	8.2	7.5	7.2	7.9	9.1	10.1	10.0	35	135	76	6	64	151	84	44	182	2	Aug.
10.9	9.1	8.4	8.1	8.2	8.5	8.9	10.5	61	68	48	17	172	80	74	132	129	0	Sept.
13.0	12.1	11.6	11.3	11.8	12.0	11.6	12.7	42	71	16	8	79	218	64	90	197	1	Oct.
10.9	11.1	11.2	12.0	11.6	11.0	11.1	11.5	34	46	17	5	60	171	96	167	156	2	Nov.
10.9	11.6	12.5	13.4	13.2	12.2	11.7	11.7	40	71	22	14	40	134	97	215	149	2	Dec.
10.4	9.6	9.1	9.0	9.2	9.6	9.9	10.6	.....	1,067	669	292	890	1,366	860	1,372	2,213	31	Year.

MEMPHIS, TENN.

[h_a = 116 ft.; local time, 1h 0m S.]

8.8	8.6	8.2	8.5	8.4	8.0	8.9	8.4	34	88	31	16	56	253	44	92	164	0	Jan.
10.3	9.6	8.4	8.9	9.1	9.1	9.1	9.6	34	186	73	33	81	90	33	101	74	1	Feb.
9.8	9.6	8.4	9.0	8.9	8.9	9.2	9.5	38	102	49	20	89	164	85	77	155	3	Mar.
10.4	9.7	8.7	8.1	8.4	9.2	10.1	9.6	43	99	102	27	84	221	70	82	35	0	Apr.
7.5	6.7	5.7	5.5	5.7	5.7	6.1	7.1	37	147	52	28	64	215	57	68	113	0	May.
7.3	6.5	4.6	4.0	3.8	4.5	4.5	5.8	31	158	114	78	123	137	33	41	23	13	June.
8.2	6.8	5.5	4.2	4.2	3.7	3.6	5.6	35	31	13	36	31	128	226	42	222	15	July.
8.3	6.7	4.6	3.8	4.2	3.7	3.8	5.7	42	214	10	13	38	39	103	11	298	18	Aug.
7.3	6.0	5.4	5.4	5.8	6.0	6.0	6.7	32	105	93	43	68	191	48	34	127	11	Sept.
6.6	5.4	5.5	5.8	6.0	5.8	5.5	6.2	28	53	62	74	174	89	33	126	121	12	Oct.
7.0	7.0	6.1	6.7	7.1	7.1	6.7	7.2	35	51	115	105	123	64	69	42	147	4	Nov.
7.8	7.4	7.9	8.2	7.8	8.1	7.7	8.1	36	26	96	57	123	136	104	52	150	0	Dec.
8.3	7.5	6.6	6.5	6.6	6.6	6.8	7.5	.....	1,260	810	530	1,054	1,727	905	768	1,629	77	Year.

NEW ORLEANS, LA.

[h_a = 120 ft.; local time, 1h 0m S.]

9.8	9.0	8.2	8.3	8.5	8.7	8.6	9.5	32	152	115	107	64	41	47	173	42	3	Jan.
12.4	12.3	10.4	10.0	9.4	9.5	9.8	10.6	30	176	148	62	87	47	56	81	15	0	Feb.
12.2	11.6	9.5	10.1	10.1	10.0	10.3	11.1	38	134	152	62	53	164	77	41	61	0	Mar.
12.5	11.8	9.4	9.0	9.2	9.0	9.4	10.1	48	52	53	33	76	387	57	46	16	0	Apr.
10.8	10.1	8.6	7.8	7.9	7.7	8.0	8.9	36	8	190	81	393	46	20	0	5	1	May.
10.6	9.3	8.2	7.4	7.0	6.8	6.3	8.4	37	51	151	73	192	84	75	45	49	0	June.
8.2	7.5	6.4	5.2	5.2	4.6	4.7	5.9	25	103	44	38	191	78	81	130	76	3	July.
9.1	8.0	6.0	6.0	6.1	6.8	6.7	7.3	36	132	115	29	89	105	107	96	71	0	Aug.
10.0	8.4	7.5	7.5	7.3	7.3	7.0	8.1	36	98	152	135	173	89	26	29	16	2	Sept.
9.9	8.1	7.9	8.9	9.3	9.2	9.3	9.7	48	220	215	39	62	51	10	40	102	5	Oct.
10.3	9.1	9.3	8.9	8.8	8.0	8.3	8.7	36	153	169	98	134	70	37	30	28	1	Nov.
9.5	8.2	8.6	8.3	8.2	8.2	7.9	9.2	48	127	118	97	139	133	40	17	69	4	Dec.
10.4	9.4	8.3	8.1	8.1	8.0	8.0	9.0	.....	1,406	1,622	854	1,653	1,295	633	728	550	19	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

NEW YORK CITY, N. Y.

[λ=40° 43′ N.; ϕ=74° 0′ W.] [Seventy-fifth Meridian Time.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan	9.4	9.9	10.2	10.1	10.1	10.8	10.4	11.3	11.7	12.5	12.9	13.1	14.1	13.3	13.7	13.6	13.7
Feb	13.2	13.4	13.8	13.6	13.6	13.5	13.1	13.5	14.0	14.3	13.0	12.9	12.8	13.4	14.4	14.4	13.9
Mar	11.5	10.8	12.0	12.2	12.0	12.1	12.1	12.3	13.4	14.2	14.3	14.2	14.3	13.8	14.3	13.7	13.2
Apr	11.3	10.7	10.4	10.2	11.1	11.5	11.4	11.2	11.5	11.8	11.7	12.4	12.3	12.1	12.4	13.3	13.8
May	10.0	10.3	9.6	8.9	8.7	9.1	9.3	9.6	10.4	11.6	12.0	12.8	13.5	14.0	14.8	15.3	15.2
June	7.3	7.3	7.0	7.6	7.8	7.3	7.8	8.7	9.2	9.4	9.7	9.9	10.1	9.8	10.1	10.6	11.2
July	8.5	8.0	8.2	7.5	7.2	7.4	7.7	8.6	9.2	9.4	10.4	10.5	11.1	11.8	11.9	11.9	11.7
Aug	9.5	8.7	8.1	9.0	8.8	9.0	9.4	9.0	9.8	10.1	9.5	10.0	10.3	11.2	11.1	10.8	10.6
Sept	7.9	7.5	7.6	7.9	8.4	8.8	8.8	9.6	10.3	10.3	11.1	11.8	12.8	12.3	11.8	11.5	11.0
Oct	9.0	8.8	9.0	9.1	8.5	9.5	9.6	10.0	10.5	10.7	10.9	11.2	11.2	11.2	11.2	11.2	10.8
Nov	10.4	10.3	10.1	9.8	9.7	9.7	9.5	9.1	10.0	11.2	12.4	12.3	12.1	11.5	11.5	11.1	11.4
Dec	10.3	9.9	10.1	10.5	10.4	10.9	10.8	11.1	11.8	11.9	11.5	12.5	12.7	13.5	13.1	13.1	13.6
Year	9.9	9.6	9.7	9.7	9.7	10.0	10.0	10.3	11.0	11.4	11.6	12.0	12.3	12.3	12.5	12.5	12.5

PHILADELPHIA, PA.

[λ=39° 57′ N.; ϕ=75° 9′ W.]

Jan	9.4	9.0	9.0	9.1	9.2	8.8	9.5	9.7	10.5	10.7	11.7	12.6	13.1	12.9	13.2	12.8	12.0
Feb	12.1	12.5	12.7	12.5	12.2	11.9	11.9	12.4	12.8	12.8	12.8	12.8	13.8	13.9	14.0	13.5	12.9
Mar	11.3	11.6	11.7	12.8	11.8	11.2	11.1	12.1	13.4	14.4	14.1	14.4	14.3	13.8	13.9	13.5	12.8
Apr	10.2	9.5	9.5	10.4	10.2	10.1	10.1	10.9	12.2	12.1	12.7	13.2	13.8	14.2	14.0	14.0	13.9
May	9.0	9.2	8.5	8.0	8.5	9.1	9.1	10.1	11.0	11.6	12.5	13.2	13.6	13.8	14.2	14.7	14.3
June	7.1	7.8	7.5	8.0	7.9	8.3	9.7	10.1	10.3	10.2	10.3	10.6	11.0	10.7	11.9	11.9	12.2
July	7.4	7.4	7.3	7.4	7.0	7.5	8.5	9.3	9.4	10.2	10.4	11.3	11.9	11.5	11.8	12.5	11.5
Aug	9.8	9.9	9.6	9.5	9.1	8.6	9.7	10.0	10.5	10.9	10.0	10.3	10.3	10.5	10.4	11.3	11.9
Sept	8.1	8.0	8.3	9.4	9.4	9.3	9.3	10.1	11.1	11.9	11.8	12.9	13.0	12.9	12.6	11.9	11.5
Oct	8.8	8.5	8.9	8.5	9.4	9.5	9.9	10.5	10.4	10.8	11.0	10.8	10.7	10.4	10.5	10.9	10.3
Nov	9.4	9.7	9.7	9.3	9.3	9.1	9.1	9.3	10.4	11.3	11.8	12.5	12.5	12.9	12.9	11.7	10.9
Dec	9.3	9.5	9.9	9.6	9.6	9.8	10.4	10.5	11.3	12.1	12.6	13.3	13.2	12.7	11.6	12.0	11.9
Year	9.3	9.4	9.4	9.5	9.5	9.4	9.9	10.4	11.1	11.6	11.8	12.3	12.6	12.5	12.6	12.6	12.2

PITTSBURG, PA.

[λ=40° 32′ N.; ϕ=80° 2′ W.]

Jan	7.6	7.4	7.3	7.4	7.9	7.6	7.2	7.5	7.5	8.0	8.6	9.1	9.8	9.5	9.6	9.6	9.1
Feb	7.9	7.0	7.4	7.1	6.7	6.7	6.9	7.2	7.0	7.5	8.1	7.9	7.8	7.6	8.0	8.3	8.2
Mar	7.9	7.0	7.2	6.9	7.0	6.8	6.7	7.4	7.5	8.6	9.6	10.0	10.1	10.0	10.2	10.7	10.2
Apr	7.3	7.0	6.8	7.4	7.9	7.9	8.5	8.9	9.4	10.6	11.1	11.2	11.5	11.0	11.7	11.6	11.3
May	5.6	5.9	5.0	5.2	5.5	5.2	5.5	6.4	7.3	7.7	8.6	8.7	9.5	8.7	8.9	8.9	9.4
June	5.1	4.8	4.5	4.4	4.2	4.4	4.8	5.3	6.0	7.2	7.6	7.9	8.5	7.9	8.4	8.4	8.8
July	3.9	3.5	3.5	3.4	3.2	3.5	3.8	4.4	5.7	6.2	7.0	6.8	8.0	8.0	8.3	8.0	8.3
Aug	3.7	3.7	3.6	3.7	3.7	3.4	3.6	3.8	5.1	5.9	6.0	6.6	7.0	6.9	7.0	7.4	7.3
Sept	5.3	4.8	5.1	5.0	5.2	5.1	4.8	5.1	6.1	7.1	8.1	8.3	8.6	8.3	8.6	8.5	8.3
Oct	5.4	5.2	5.4	4.9	5.4	5.0	5.1	5.5	5.8	6.8	7.8	7.7	8.2	8.2	8.8	8.2	8.0
Nov	6.0	5.4	5.2	5.9	6.1	6.6	6.2	6.3	6.9	7.4	8.1	9.1	9.9	8.9	9.1	9.3	8.8
Dec	7.6	7.4	7.4	7.5	7.8	8.0	8.2	8.2	8.2	8.8	9.4	10.2	9.5	9.3	9.3	8.7	8.4
Year	6.1	5.8	5.7	5.7	5.9	5.8	5.9	6.3	6.9	7.6	8.3	8.6	9.0	8.7	9.0	9.0	8.8

PORTLAND, OREG.

[λ=45° 32′ N.; ϕ=122° 43′ W.]

Jan	7.4	7.1	7.8	6.6	6.8	6.3	6.7	6.5	7.1	6.8	7.5	6.8	6.6	7.1	7.6	7.4	7.3
Feb	7.8	8.2	8.4	8.4	9.2	8.8	8.4	7.8	7.7	7.6	8.3	8.2	7.3	6.6	6.9	7.2	7.6
Mar	9.5	9.3	9.6	9.4	9.8	8.7	8.8	7.9	7.4	7.9	7.7	8.7	10.2	11.0	11.9	12.4	12.4
Apr	9.2	8.8	9.6	10.1	9.2	9.4	9.1	9.7	9.7	10.3	10.1	10.8	11.0	10.3	9.8	10.2	11.3
May	8.5	7.5	6.7	6.1	6.1	5.8	5.7	5.7	5.5	5.6	6.5	6.6	7.2	7.9	8.1	9.0	9.0
June	8.4	8.0	7.8	6.9	6.7	6.8	7.2	6.5	6.1	6.9	8.0	9.2	9.3	9.5	9.3	9.7	10.6
July	9.3	7.9	5.9	5.4	4.9	4.0	3.0	2.9	2.9	3.4	6.0	6.7	6.6	6.5	6.9	8.0	8.2
Aug	9.9	8.9	8.1	7.1	5.8	5.9	5.4	5.4	4.7	5.0	6.2	6.9	7.6	8.0	8.7	9.3	9.7
Sept	8.0	6.7	6.7	6.3	6.5	6.2	6.5	7.1	6.6	6.5	6.2	6.4	7.3	7.4	7.8	8.0	8.3
Oct	7.5	8.3	7.4	7.6	8.0	8.1	8.7	8.5	9.3	8.2	8.6	7.9	8.4	8.7	9.4	9.3	8.4
Nov	11.1	11.6	12.0	11.3	10.9	10.9	10.3	9.8	9.2	8.5	8.7	8.2	8.4	8.1	8.5	9.2	9.2
Dec	7.0	8.2	8.7	8.0	7.6	8.0	7.7	8.5	8.5	8.9	9.1	9.7	9.7	8.8	9.1	9.7	9.0
Year	8.6	8.4	8.2	7.8	7.6	7.4	7.3	7.2	7.1	7.1	7.7	8.0	8.3	8.3	8.7	9.1	9.2

WIND—VELOCITY AND FREQUENCY—Continued

NEW YORK CITY, N. Y.

[h_s = 200 ft.; local time, 0h 4m F.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1893.
13.4	13.1	12.7	12.6	11.6	10.3	9.9	11.8	48	32	109	16	48	34	196	73	236	0	Jan.
13.7	13.8	13.1	13.4	13.5	13.6	13.6	13.6	45	39	92	21	60	32	148	55	225	0	Feb.
12.2	10.7	10.6	11.2	11.1	11.8	11.7	12.5	40	60	157	10	87	34	116	53	227	0	Mar.
13.6	12.1	10.8	11.4	11.8	11.2	10.5	11.7	40	32	139	48	177	46	81	24	173	0	Apr.
14.3	13.1	11.7	10.2	10.4	9.5	9.0	11.4	45	17	108	34	140	83	199	42	121	0	May.
10.7	9.2	7.7	7.7	7.7	7.4	7.6	8.7	40	79	191	33	108	74	101	20	109	5	June.
11.4	10.5	9.4	9.3	8.7	8.8	8.9	9.5	36	23	23	7	100	163	161	46	220	1	July.
10.2	9.5	9.2	9.5	8.6	8.6	9.1	9.6	54	75	77	10	126	185	80	32	159	0	Aug.
10.1	8.9	8.8	8.9	8.4	8.2	8.2	9.6	30	58	70	42	125	66	115	53	189	2	Sept.
10.1	9.8	9.4	9.5	9.3	9.8	9.6	10.0	48	59	89	43	95	113	131	28	185	1	Oct.
11.0	11.4	11.3	11.2	10.9	10.7	10.5	10.8	41	68	88	31	62	56	230	55	129	1	Nov.
12.9	12.0	11.5	11.7	11.6	10.2	9.6	11.6	42	34	48	8	37	141	218	74	183	1	Dec.
12.0	11.2	10.5	10.6	10.3	10.0	9.8	10.9	.....	576	1,191	303	1,165	1,027	1,776	555	2,156	11	Year.

PHILADELPHIA, PA.

[h_s = 184 ft.; local time, 0h 0m.]

11.0	10.6	10.9	10.4	9.8	9.0	9.6	10.6	36	50	146	44	45	16	96	64	283	0	Jan.
12.6	11.9	11.5	11.6	11.6	11.6	11.4	12.5	46	43	135	23	42	28	123	31	247	0	Feb.
11.9	11.5	10.6	10.7	10.1	10.4	10.9	12.3	37	80	177	38	41	41	108	41	218	0	Mar.
13.2	12.8	11.8	11.1	10.7	10.0	9.9	11.7	40	38	159	61	93	63	143	14	149	0	Apr.
13.2	12.2	10.5	10.0	9.5	9.3	9.3	11.0	38	51	116	22	56	45	258	49	146	1	May.
11.6	10.7	9.3	9.7	8.5	7.5	7.8	9.6	26	71	200	57	57	15	160	37	123	0	June.
11.5	9.9	8.6	8.4	7.9	8.0	7.5	9.3	39	63	64	22	70	51	233	72	169	0	July.
10.5	9.4	8.8	8.0	8.4	8.3	9.2	9.8	55	191	69	34	64	95	142	34	115	0	Aug.
10.4	8.6	8.5	9.2	8.4	7.9	8.3	10.1	37	136	50	81	49	52	104	109	139	0	Sept.
9.7	9.1	9.5	9.6	9.3	9.4	9.2	9.8	55	113	105	100	72	48	86	76	143	1	Oct.
10.1	10.5	10.4	9.9	9.8	10.1	9.2	10.5	36	87	133	32	26	54	149	74	165	0	Nov.
11.4	11.1	11.2	10.5	10.1	10.1	9.5	11.0	43	93	56	28	20	55	212	91	189	0	Dec.
11.4	10.7	10.1	9.9	9.5	9.3	9.3	10.7	.....	1,016	1,410	542	635	563	1,814	692	2,086	2	Year.

PITTSBURG, PA.

[h_s = 123 ft.; local time, 0h 20m S.]

8.5	8.0	8.1	8.2	8.6	8.3	8.2	8.3	34	25	20	16	104	42	131	201	205	0	Jan.
8.0	7.7	7.3	6.9	7.2	6.5	7.0	7.4	36	38	47	34	124	21	90	63	255	0	Feb.
10.0	8.6	8.2	8.0	7.9	7.6	7.8	8.4	30	98	68	21	145	45	85	98	183	1	Mar.
10.4	8.8	7.8	7.8	7.6	7.1	7.5	9.1	36	72	66	29	166	16	123	94	154	0	Apr.
9.0	8.0	7.1	6.7	7.1	6.2	5.9	7.2	33	98	38	19	95	50	142	87	214	1	May.
8.7	7.6	6.7	6.3	6.1	5.7	5.4	6.4	24	134	44	71	133	23	139	64	110	2	June.
7.8	7.0	5.3	4.3	4.7	3.9	4.3	5.5	26	142	116	38	71	39	89	82	167	0	July.
7.3	6.1	5.1	4.8	4.5	4.3	4.0	5.2	24	214	162	32	80	42	57	58	99	0	Aug.
7.9	6.8	6.1	5.0	5.2	5.3	4.5	6.4	22	126	44	45	187	31	103	49	135	0	Sept.
7.4	6.8	6.6	6.1	5.6	5.5	5.1	6.4	32	90	48	77	149	46	105	98	131	0	Oct.
7.6	7.2	6.6	6.8	6.7	6.3	6.0	7.2	28	70	15	44	165	48	98	205	75	0	Nov.
7.4	6.6	6.4	6.5	7.4	7.5	7.5	8.0	26	27	8	24	100	56	203	234	92	0	Dec.
8.3	7.4	6.8	6.4	6.6	6.2	6.1	7.1	.....	1,134	676	450	1,519	459	1,365	1,333	1,820	4	Year.

PORTLAND, OREG.

[h_s = 209 ft.; local time, 3h 11m S.]

7.5	7.1	7.5	6.8	6.2	6.8	6.8	7.0	38	175	78	65	177	67	60	6	113	3	Jan.
8.2	8.8	9.1	8.4	8.4	8.2	7.9	8.0	40	66	28	22	122	134	150	20	128	2	Feb.
12.3	11.1	10.8	9.7	9.8	9.1	8.7	9.8	44	58	43	55	112	125	221	23	105	2	Mar.
10.9	10.8	9.7	9.5	8.6	7.9	8.1	9.8	44	82	4	7	66	187	233	30	109	2	Apr.
9.1	9.5	9.3	9.9	9.2	8.5	8.9	7.6	33	141	17	11	69	110	126	52	216	2	May.
10.3	10.5	9.3	10.2	10.4	9.0	8.7	8.6	38	255	18	6	44	102	126	20	148	1	June.
8.3	8.7	8.9	9.0	9.5	9.8	9 3	6.7	24	353	8	2	53	28	10	15	264	11	July.
9.7	9.7	9.8	10.3	10.3	10.6	11.5	8.1	35	232	15	2	28	47	11	18	383	8	Aug.
8.3	9.2	9.1	8.7	8.4	8.2	8.1	7.4	30	131	6	0	72	205	103	32	170	1	Sept.
8.8	8.8	7.6	7.7	7.2	7.4	7.4	8.2	36	154	20	8	67	157	116	7	210	5	Oct.
10.1	9.1	9.8	10.0	10.4	10.8	10.6	9.9	44	104	26	8	81	117	199	23	161	1	Nov.
9.5	8.9	8.8	7.6	6.8	6.5	6.5	8.4	36	95	27	8	125	186	190	17	94	2	Dec.
9.4	9.4	9.1	9.0	8.8	8.6	8.5	8.3	.....	1,846	290	194	1,016	1,465	1,545	263	2,101	40	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

ST. LOUIS, MO.

[λ=38° 38′ N.; ϕ=90° 12′ W.] [Seventy-fifth Meridian Time.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.....	13.2	13.0	13.1	12.6	12.5	12.2	11.5	11.8	12.4	12.8	13.3	14.2	14.0	14.4	13.9	14.3	13.6
Feb.....	11.7	12.0	12.6	12.3	11.0	10.6	10.4	10.0	10.7	11.2	11.7	11.5	12.2	12.5	12.5	12.4	12.5
Mar.....	13.5	13.1	13.5	13.7	13.3	14.1	13.4	13.4	14.1	15.2	14.3	15.4	15.4	15.5	16.9	16.2	15.9
Apr	13.5	13.5	14.2	14.3	12.9	12.7	12.3	13.0	13.5	13.8	13.4	13.6	14.6	14.0	15.1	15.3	15.5
May	9.9	10.4	10.8	11.3	11.0	11.0	10.8	11.4	12.2	12.5	13.6	14.4	14.4	15.4	15.5	14.5	13.8
June....	8.6	7.8	8.6	7.6	7.7	7.6	7.3	7.9	8.7	9.5	10.3	10.7	10.9	10.5	10.8	11.5	11.1
July	9.0	8.7	8.5	8.3	8.2	8.1	8.2	8.6	8.8	9.6	10.3	10.4	11.2	10.8	11.2	11.4	11.3
Aug	8.0	7.7	6.9	7.0	6.1	6.0	5.9	6.0	6.4	6.7	7.4	8.3	9.0	9.0	9.9	9.7	9.7
Sept....	10.5	9.7	9.9	9.3	9.3	8.5	8.4	8.7	8.9	10.1	10.3	10.2	10.4	10.6	11.4	11.6	12.1
Oct.....	10.4	10.3	9.9	10.5	10.2	10.4	10.2	10.6	11.3	12.9	12.6	13.5	13.8	14.2	14.2	15.2	15.7
Nov.....	10.0	10.0	10.4	10.6	10.2	10.1	9.8	9.5	9.9	10.2	10.6	11.4	12.4	12.8	13.3	13.5	12.9
Dec	14.6	14.1	13.5	12.4	13.2	13.5	13.5	13.3	13.8	13.7	14.3	14.8	14.3	14.2	14.6	14.7	15.2
Year....	11.1	10.9	11.0	10.8	10.5	10.4	10.1	10.4	10.9	11.5	11.8	12.4	12.7	12.8	13.3	13.4	13.3

ST. PAUL, MINN.

[λ=44° 58′ N.; ϕ=93° 3′ W.]

Jan.....	8.2	7.4	7.5	6.8	7.2	7.1	7.2	6.1	6.8	7.8	8.1	8.9	8.9	8.8	8.6	8.5	7.8
Feb.....	9.4	8.4	8.2	8.1	8.0	8.1	7.9	7.2	7.6	9.0	9.8	10.2	10.7	10.2	10.8	10.1	10.6
Mar.....	7.2	6.1	6.1	6.5	6.3	6.9	7.0	6.5	6.7	7.3	7.8	8.2	8.7	8.6	8.6	9.1	9.0
Apr	9.7	8.8	9.1	9.4	9.2	9.4	10.0	9.4	10.1	10.8	10.9	11.8	11.7	12.1	11.8	11.8	11.5
May	5.8	5.8	5.5	5.6	5.3	5.7	5.7	6.9	7.8	8.7	9.0	10.1	10.1	9.7	9.6	9.9	9.7
June....	4.9	4.7	4.6	5.0	5.4	5.7	5.7	6.4	7.0	8.0	8.9	10.2	9.8	10.5	10.3	10.5	10.6
July	4.1	4.0	4.1	4.0	4.3	4.3	4.3	4.4	4.7	6.5	7.7	8.4	8.7	8.5	8.8	9.2	9.6
Aug	5.6	5.2	4.7	4.3	4.4	4.1	4.2	4.5	5.6	6.6	7.7	8.9	9.3	9.7	9.4	9.7	9.8
Sept....	6.3	5.5	5.4	5.4	5.8	6.2	6.4	6.6	7.6	8.8	9.4	10.3	10.4	10.8	11.1	10.7	10.7
Oct.....	7.8	7.1	7.5	7.4	7.3	7.2	7.0	7.0	7.3	8.5	9.2	10.3	10.9	10.7	10.7	10.5	10.2
Nov.....	7.7	7.8	7.6	8.4	8.2	8.2	8.7	8.8	8.4	8.9	9.1	9.7	10.0	9.9	10.0	10.4	9.8
Dec	7.4	7.0	6.5	7.0	7.4	7.3	7.4	7.4	7.4	8.3	8.4	8.9	9.3	9.0	8.6	8.5	8.0
Year....	7.0	6.5	6.4	6.5	6.6	6.7	6.8	6.8	7.2	8.3	8.8	9.7	9.9	9.9	9.9	9.9	9.8

SALT LAKE CITY, UTAH.

[λ=40° 46′ N.; ϕ=111° 54′ W.]

Jan.....	4.5	4.2	3.4	3.6	3.4	3.9	3.7	4.3	4.0	4.4	4.2	4.0	5.4	5.7	6.8	7.3	6.8
Feb.....	4.4	4.8	4.9	4.5	4.4	5.5	5.1	4.9	4.6	4.4	4.7	5.0	6.1	7.9	8.0	7.8	7.6
Mar	4.6	4.8	4.3	4.8	4.7	5.5	4.7	4.9	5.6	5.4	5.5	7.3	8.5	9.8	10.0	9.7	9.8
Apr.....	6.5	6.4	5.8	5.6	5.3	6.0	6.4	5.9	5.6	6.2	7.8	9.8	10.3	11.8	11.1	11.1	11.2
May	5.1	4.9	4.7	4.5	5.1	4.2	4.4	4.5	4.5	5.1	6.7	8.4	11.2	11.5	11.4	11.8	11.3
June....	5.1	5.3	4.7	4.7	4.6	3.9	3.9	4.5	3.6	4.2	5.8	7.7	9.8	11.2	11.6	11.6	12.4
July	5.6	5.0	4.2	4.6	4.0	4.0	3.6	3.8	3.5	3.3	3.7	5.3	7.0	8.2	9.5	9.9	9.6
Aug	5.0	5.3	4.9	4.4	3.9	4.4	4.2	3.9	3.6	3.0	3.8	4.3	6.3	6.1	7.5	8.7	9.2
Sept....	4.8	5.0	5.2	5.7	5.8	5.7	5.7	5.2	4.8	4.7	5.1	6.6	8.3	10.0	10.5	11.1	11.3
Oct.....	4.4	4.2	4.0	4.5	4.1	4.0	3.9	4.0	3.7	3.6	3.7	4.9	6.9	7.7	8.9	8.7	8.6
Nov.....	4.7	4.1	3.9	4.1	4.7	4.8	4.3	4.3	3.9	4.2	4.1	4.4	6.1	6.5	8.0	9.0	8.6
Dec.....	4.1	3.3	3.8	4.7	4.3	5.2	5.1	5.4	4.9	4.2	4.0	4.3	4.9	4.7	5.3	6.0	5.5
Year....	4.9	4.8	4.5	4.6	4.5	4.8	4.6	4.6	4.4	4.4	4.9	6.0	7.6	8.4	9.0	9.4	9.3

SAN DIEGO, CAL.

[λ=32° 43′ N.; ϕ=117° 10′ W.]

Jan.....	3.4	3.4	2.9	3.1	3.2	3.3	2.8	3.4	2.8	2.7	3.0	2.1	2.7	3.3	4.9	6.1	6.9
Feb.....	4.1	4.4	3.8	3.8	4.3	4.1	3.6	3.8	4.5	4.2	3.9	3.3	4.1	5.5	6.8	8.1	8.9
Mar	4.7	4.5	4.5	4.4	4.7	4.6	4.5	4.5	4.6	4.6	5.3	5.2	6.6	7.9	8.9	9.9	9.9
Apr.....	3.1	3.2	3.2	3.5	3.3	3.6	3.6	3.6	3.7	3.1	3.2	4.4	6.3	7.9	9.1	9.7	9.7
May	3.1	3.0	3.3	3.6	3.8	3.7	3.6	3.5	3.0	3.1	3.7	5.0	7.1	8.0	9.2	10.6	10.3
June....	2.3	2.3	2.3	2.2	2.2	2.3	2.7	2.8	2.8	3.0	3.3	4.6	6.4	7.7	8.4	9.2	9.2
July	2.0	1.9	1.8	2.1	2.2	3.0	2.8	2.7	3.1	2.8	3.3	5.3	7.1	8.4	9.0	9.5	9.4
Aug	2.4	2.2	2.2	2.7	2.3	2.4	2.4	2.5	2.5	2.5	3.3	4.7	6.9	8.2	9.1	9.6	9.7
Sept....	2.8	2.4	2.7	2.9	2.7	3.0	3.3	3.4	3.0	3.3	3.0	4.4	6.3	8.1	9.0	9.4	9.6
Oct.....	2.3	2.8	2.7	2.8	2.7	2.7	3.0	3.6	3.3	3.2	3.0	3.6	4.7	6.3	8.4	9.4	9.5
Nov.....	3.2	2.6	3.0	3.4	2.8	3.3	3.3	3.2	3.3	3.4	3.3	3.0	4.4	5.8	6.8	8.4	8.5
Dec.....	3.2	3.3	3.4	3.7	3.9	3.7	3.5	3.7	3.9	4.0	3.6	2.9	3.5	4.2	6.2	7.1	7.4
Year....	3.0	3.0	3.0	3.2	3.2	3.3	3.3	3.4	3.4	3.3	3.5	4.0	5.5	6.8	8.0	8.9	9.1

WIND—VELOCITY AND FREQUENCY—Continued.

ST. LOUIS, MO.

[h_s = 210 ft.; local time 1h 1m S.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1893.
13.4	12.8	12.5	12.3	12.5	12.8	12.6	13.0	40	37	55	24	110	76	61	101	280	0	Jan.
11.9	10.7	10.4	10.5	11.2	11.0	12.0	11.5	48	33	69	41	141	60	62	73	193	0	Feb.
15.3	13.9	13.2	13.6	13.1	14.2	14.4	14.4	44	47	78	45	125	56	206	68	119	0	Mar.
15.7	15.0	13.8	13.2	12.7	12.2	13.4	13.8	54	70	100	46	164	71	133	46	90	0	Apr.
13.1	12.3	11.5	10.5	10.5	10.5	10.5	12.2	50	39	92	46	142	99	124	68	133	1	May.
11.4	10.2	8.1	7.9	8.0	8.1	8.3	9.1	50	60	102	68	131	114	108	32	103	2	June.
11.5	10.7	10.1	8.5	9.2	9.5	9.5	9.7	50	60	88	18	52	136	191	112	87	0	July.
9.7	8.6	7.5	7.7	8.4	8.4	8.4	7.9	35	206	152	32	70	105	51	48	77	3	Aug.
11.5	9.7	9.8	10.9	10.8	10.9	10.9	10.2	33	112	96	34	90	129	140	45	71	3	Sept.
14.0	12.3	12.0	11.7	11.7	11.2	11.6	12.1	36	25	11	14	206	237	52	81	117	1	Oct.
12.2	10.6	11.0	11.3	11.2	10.6	10.1	11.0	36	48	43	31	146	137	94	103	118	0	Nov.
14.2	13.4	13.9	14.2	14.2	14.7	14.5	14.0	42	52	28	32	115	159	109	111	138	0	Dec.
12.8	11.7	11.2	11.0	11.1	11.2	11.4	11.6	.....	789	914	431	1,492	1,379	1,331	888	1,526	10	Year.

ST. PAUL, MINN.

[h_s = 120 ft.; local time, 1h 12m S.]

7.8	7.4	6.6	7.1	7.6	8.2	8.8	7.7	36	5	32	31	148	21	108	143	245	11	Jan.
10.2	9.4	8.5	8.3	8.6	8.5	9.0	9.0	35	7	40	19	180	14	142	112	150	8	Feb.
8.7	8.4	7.9	7.3	7.0	7.1	7.6	7.5	27	18	104	26	195	18	115	68	193	7	Mar.
12.1	10.6	9.9	9.0	9.1	8.3	8.9	10.2	31	4	156	18	150	12	122	56	198	4	Apr.
9.7	9.2	7.3	5.5	5.5	5.8	5.9	7.5	38	21	139	23	138	16	106	38	242	21	May.
10.5	10.2	8.7	7.0	6.6	6.7	6.1	7.7	34	1	28	17	314	61	167	47	78	7	June.
9.3	8.7	7.6	5.6	5.0	4.9	4.8	6.3	26	11	31	18	198	42	163	79	157	45	July.
9.4	8.1	6.5	5.9	5.3	5.5	5.9	6.7	34	17	47	45	224	53	121	74	141	22	Aug.
9.9	8.3	6.6	6.3	6.4	6.5	6.9	7.8	36	17	74	41	258	38	108	60	120	4	Sept.
9.7	8.8	7.6	7.7	8.1	7.7	7.9	8.5	38	9	44	40	233	37	139	85	157	0	Oct.
8.6	7.6	7.6	7.0	7.0	7.5	7.2	8.5	29	2	10	51	208	23	130	161	128	7	Nov.
7.5	7.8	7.9	6.9	7.3	7.2	7.5	7.7	42	19	62	41	172	24	113	139	172	2	Dec.
9.4	8.7	7.7	7.0	7.0	7.0	7.2	7.9	.....	131	767	370	2,418	359	1,534	1,062	1,981	138	Year.

SALT LAKE CITY, UTAH.

[h_s = 90 ft.; local time, 2h 27m S.]

7.5	6.8	5.4	4.7	4.6	5.1	5.6	5.0	36	32	17	45	243	60	76	125	143	3	Jan.
7.7	7.6	6.6	5.5	5.2	4.8	4.4	5.7	37	46	58	83	152	43	71	87	132	0	Feb.
8.6	7.9	7.7	6.1	5.0	5.0	4.8	6.5	34	70	45	82	197	45	48	92	161	4	Mar.
11.2	9.7	8.4	7.4	7.5	7.0	7.3	8.0	60	45	48	72	182	33	92	73	174	1	Apr.
11.5	11.6	11.2	10.0	7.5	7.1	6.7	7.7	51	82	53	44	157	29	68	76	235	0	May.
12.2	11.0	9.0	7.8	6.4	6.2	5.4	7.2	35	96	55	63	193	12	33	24	244	0	June.
9.5	9.1	8.1	7.5	5.9	5.7	5.5	6.1	30	103	60	109	184	39	40	42	167	0	July.
8.6	7.8	7.2	5.8	6.0	5.5	5.8	5.6	38	73	95	120	216	41	38	51	110	0	Aug.
11.0	10.3	8.7	6.6	5.4	3.7	4.4	6.9	36	90	36	114	215	33	36	78	118	0	Sept.
7.7	6.2	4.5	3.7	4.1	4.5	4.5	5.2	28	84	48	123	184	35	37	114	108	11	Oct.
7.2	6.0	4.6	4.6	4.5	4.6	4.6	5.2	35	78	33	70	119	119	51	94	142	14	Nov.
4.5	3.3	3.2	3.1	3.7	3.6	3.9	4.4	42	31	33	74	201	105	57	74	143	26	Dec.
8.9	8.1	7.0	6.1	5.5	5.2	5.2	6.1	.....	830	581	999	2,243	594	647	930	1,877	59	Year.

SAN DIEGO, CAL.

[h_s = 85 ft.; local time, 2h 49m S.]

7.4	7.1	5.8	4.7	3.6	3.5	3.6	4.0	17	145	143	31	21	41	39	96	209	19	Jan.
8.9	8.3	7.3	5.4	4.1	3.6	3.5	5.1	22	45	59	11	30	33	80	185	213	16	Feb.
10.1	9.1	8.2	7.1	5.7	5.3	5.1	6.2	34	63	48	24	54	85	94	215	139	22	Mar.
9.7	9.1	7.8	6.8	4.9	3.2	2.6	5.3	20	39	32	8	5	8	141	315	152	20	Apr.
10.0	9.5	8.7	7.6	6.1	5.2	4.2	5.8	24	70	17	2	6	61	141	280	155	12	May.
8.8	8.2	7.4	6.5	5.6	4.5	3.4	4.9	14	10	1	2	6	66	228	306	81	20	June.
9.0	8.3	7.8	6.9	5.7	4.4	3.3	5.1	17	15	1	3	4	10	244	345	94	28	July.
9.4	8.5	7.6	6.6	5.0	3.9	2.9	5.0	16	14	0	0	0	26	113	495	73	23	Aug.
8.9	8.0	7.3	6.4	5.0	3.4	2.9	5.1	15	20	0	0	5	44	187	261	190	13	Sept.
9.3	7.9	6.5	4.5	3.2	2.4	2.5	4.6	19	89	69	33	43	70	149	159	109	23	Oct.
9.1	8.0	6.6	3.9	3.2	3.2	3.4	4.5	25	132	137	41	36	15	56	149	124	30	Nov.
7.9	7.3	5.6	4.2	3.7	3.5	3.7	4.5	27	118	197	35	46	39	50	98	138	23	Dec.
9.0	8.3	7.2	5.9	4.6	3.8	3.4	5.0	.....	760	704	190	256	498	1,522	2,904	1,677	249	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

SANTA FE, N. MEX.

[λ = 35° 41′ N.; φ = 105° 57′ W.] [Seventy-fifth Meridian Time.]

1893.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.....	5.5	6.3	5.9	6.5	7.5	6.7	6.3	7.5	7.4	7.8	9.0	9.4	9.3	10.1	10.2	9.3	9.2
Feb.....	6.4	7.1	6.5	5.8	6.4	5.9	5.5	5.5	5.1	5.4	6.5	8.8	10.5	11.6	11.4	11.2	11.4
Mar	6.3	6.2	5.6	5.4	4.9	5.9	5.9	5.6	5.5	5.3	8.2	10.0	11.1	12.1	12.4	12.4	12.6
Apr.....	6.8	6.7	6.2	5.6	4.9	4.8	4.7	4.7	4.7	6.3	9.8	11.8	12.3	12.9	13.2	14.4	15.6
May	7.0	6.7	6.4	5.8	5.5	5.2	4.8	5.3	4.9	5.8	7.9	9.4	10.1	11.2	12.7	13.5	13.3
June....	7.7	7.2	7.3	6.4	5.8	5.2	4.8	4.4	3.6	5.3	7.2	8.3	9.3	9.2	9.9	10.3	10.6
July	6.9	6.2	5.3	4.9	4.3	4.0	3.0	3.5	3.9	4.7	6.2	6.4	6.6	7.0	8.5	9.6	9.1
Aug	5.3	5.1	5.4	4.9	4.3	3.7	3.7	3.5	3.0	4.3	5.2	5.9	6.6	7.0	8.0	8.3	8.5
Sept	5.4	4.8	4.4	4.1	3.7	3.5	3.5	3.8	3.6	4.1	5.0	6.3	7.8	8.2	8.1	8.9	8.4
Oct.....	5.4	5.1	4.3	4.5	4.4	4.2	3.8	4.5	4.5	5.3	6.2	7.3	7.5	8.2	8.5	9.0	9.4
Nov.....	5.7	4.9	4.6	4.5	4.9	4.5	4.6	4.1	4.3	4.1	4.7	7.1	9.3	10.1	10.2	10.1	9.8
Dec.....	6.4	5.5	5.5	4.8	4.3	4.9	4.4	4.6	5.8	6.6	7.3	8.8	9.4	10.1	10.9	10.5	9.7
Year	6.2	6.0	5.6	5.3	5.1	4.9	4.6	4.8	4.7	5.4	6.9	8.3	9.2	9.8	10.3	10.6	10.6

SAN FRANCISCO, CAL.

[λ = 37° 48′ N.; φ = 122° 26′ W.]

Jan.....	8.0	7.7	8.5	8.5	8.7	9.0	9.2	10.1	10.5	10.6	10.9	11.3	11.8	11.4	11.8	12.0	12.0
Feb.....	8.0	7.3	6.6	7.1	6.9	7.0	7.1	7.4	7.0	6.8	6.7	8.0	8.6	8.5	8.9	9.5	10.4
Mar.....	8.5	8.3	7.5	8.0	8.3	8.1	8.0	7.4	6.5	6.8	7.4	8.8	9.7	10.4	11.4	13.2	13.5
Apr.....	11.3	10.7	9.5	9.1	8.8	7.8	7.8	8.1	7.3	7.9	9.0	11.0	11.1	12.8	14.3	17.6	18.7
May	10.4	9.1	8.6	8.1	7.7	7.3	7.0	7.4	7.1	6.9	7.8	8.4	9.1	11.3	14.3	16.9	18.7
June....	14.3	12.0	11.0	11.0	10.4	9.6	8.9	9.4	8.5	7.5	7.9	9.6	11.3	14.5	17.5	21.0	22.8
July	14.3	13.0	11.5	11.1	10.7	9.9	8.2	8.8	9.8	8.4	9.0	9.9	11.0	12.7	16.6	20.4	23.0
Aug	13.1	11.4	11.1	10.7	10.4	9.6	8.9	8.7	7.8	7.8	8.5	8.6	10.1	12.0	14.9	19.0	21.9
Sept	11.2	10.0	9.6	9.1	7.9	8.3	7.5	7.8	7.9	7.9	8.4	9.8	9.8	10.8	13.5	16.3	18.8
Oct.....	8.2	6.7	6.3	6.5	6.0	6.2	5.5	5.6	5.3	5.2	5.6	6.3	7.7	8.6	9.8	12.0	14.2
Nov.....	7.1	6.3	5.9	6.5	6.3	6.3	6.5	5.9	6.1	5.8	5.9	6.5	7.8	7.7	7.6	8.2	9.2
Dec.....	5.9	5.3	4.8	5.4	5.5	5.3	5.8	6.2	5.6	6.0	6.2	5.8	6.3	6.5	6.8	7.1	7.1
Year	10.0	9.0	8.4	8.4	8.1	7.9	7.5	7.7	7.4	7.3	7.8	8.7	9.5	10.6	12.3	14.4	15.9

SAVANNAH, GA.

[λ = 32° 5′ N.; φ = 81° 5 W.]

Jan.....	7.9	7.8	7.8	8.3	8.4	8.3	8.1	7.9	7.9	8.4	9.8	10.6	11.7	12.0	12.1	12.0	10.8
Feb.....	8.3	8.3	8.5	8.5	8.5	9.2	8.7	8.7	9.7	10.6	11.0	11.8	12.4	12.5	12.6	12.6	11.0
Mar.....	8.3	7.9	8.6	8.5	8.2	8.6	8.3	8.2	9.8	10.5	10.0	10.6	11.1	11.5	11.6	12.3	11.7
Apr.....	8.6	7.8	7.2	7.3	7.3	7.6	7.2	8.4	9.4	10.3	10.7	11.1	12.4	12.3	13.0	13.2	13.3
May	8.1	7.6	7.6	7.7	7.5	7.6	7.8	8.7	9.2	9.5	10.1	10.9	10.5	11.7	12.4	13.3	13.0
June....	6.0	5.4	5.0	5.8	5.9	6.0	6.5	7.0	7.9	8.4	9.0	9.2	9.8	10.6	11.2	11.3	11.3
July	5.1	4.7	4.6	4.7	4.6	5.1	5.1	6.1	6.3	6.3	6.5	7.0	7.3	7.8	8.9	10.2	11.5
Aug.....	5.1	4.9	6.1	6.1	6.1	6.2	6.8	7.2	7.7	8.0	8.3	8.3	8.5	9.3	10.2	10.8	10.5
Sept	5.0	4.5	4.7	4.5	4.8	5.0	5.0	5.9	6.6	7.1	7.4	7.9	7.5	7.7	8.4	8.8	8.8
Oct.....	7.6	6.7	7.4	7.7	8.3	8.8	8.4	8.8	10.1	10.5	10.5	11.4	11.0	11.6	12.3	11.8	11.5
Nov.....	7.2	7.2	7.1	7.5	7.5	7.9	8.3	8.3	8.8	9.3	9.9	9.8	9.9	9.7	9.8	9.8	8.7
Dec.....	7.1	7.1	7.5	7.8	7.9	8.5	7.5	7.9	7.9	8.6	9.2	9.8	9.9	9.9	10.1	9.3	8.4
Year	7.0	6.7	6.9	7.0	7.1	7.4	7.3	7.8	8.4	9.0	9.4	9.9	10.2	10.6	11.0	11.3	10.9

WASHINGTON, D. C.

[λ = 38° 54′ N.; φ = 77° 3′ W.]

Jan.....	5.2	5.5	5.6	5.0	5.5	6.4	6.0	6.4	6.9	7.7	8.9	10.3	11.4	11.2	11.0	10.3	8.3
Feb.....	7.5	7.1	6.2	6.1	5.9	6.4	6.4	7.0	8.1	10.0	10.9	10.9	11.5	11.3	11.5	12.1	10.9
Mar.....	6.8	6.9	6.3	6.1	6.4	6.0	6.1	5.7	7.3	8.6	9.7	10.2	10.0	10.2	10.2	10.4	9.9
Apr.....	6.6	6.0	6.2	5.9	5.5	5.3	5.0	5.8	7.8	7.9	8.7	10.4	11.2	11.2	12.0	11.8	11.6
May	5.0	4.2	4.2	4.1	4.0	4.0	4.7	6.4	7.5	7.7	8.8	9.9	10.5	9.9	10.1	10.3	9.8
June....	3.5	3.4	3.5	3.9	3.7	3.6	4.0	5.0	6.2	6.5	7.0	7.2	7.6	7.9	7.7	7.2	7.4
July	3.3	3.4	3.2	3.9	3.5	3.2	3.8	5.3	6.5	6.8	7.5	7.9	8.1	8.2	8.2	7.7	7.9
Aug.....	4.5	4.4	4.2	4.2	3.8	3.7	4.3	4.7	6.1	6.9	7.3	7.5	8.0	8.4	8.3	8.6	8.2
Sept	3.8	3.6	3.8	4.2	3.6	4.5	4.6	4.7	6.5	7.4	7.6	8.0	8.1	8.1	7.8	7.5	6.7
Oct.....	5.0	4.9	5.3	4.5	4.4	4.3	4.3	4.5	5.5	7.1	8.1	8.1	8.3	8.5	8.4	7.9	7.3
Nov.....	5.2	5.0	4.8	4.8	4.8	4.7	4.8	5.3	6.7	8.5	9.6	9.5	9.9	9.8	9.6	9.3	7.5
Dec.....	6.0	4.9	4.9	5.0	6.2	5.8	5.1	5.3	5.8	6.8	7.8	8.5	9.0	9.4	9.9	8.4	7.9
Year	5.2	4.9	4.8	4.8	4.8	4.8	4.9	5.5	6.7	7.7	8.5	9.0	9.5	9.5	9.6	9.3	8.6

WIND—VELOCITY AND FREQUENCY—Continued.

SANTA FE, N. MEX.

[h_s = 50 ft.; local time, 2h 4m S.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1893.
9.2	7.1	4.4	4.9	5.4	5.9	5.5	7.3	28	32	311	45	105	23	106	34	72	16	Jan.
11.0	10.1	8.6	7.0	6.4	6.7	7.0	7.8	46	35	152	27	71	33	175	35	123	21	Feb.
13.0	12.8	12.5	9.0	7.7	7.8	7.1	8.6	38	62	153	7	118	33	137	27	189	18	Mar.
15.6	15.6	14.2	11.4	7.4	6.6	6.8	9.3	44	51	77	12	135	36	214	24	164	7	Apr.
13.3	12.8	11.8	9.6	6.7	6.8	7.5	8.5	51	40	89	24	190	31	221	22	126	1	May.
10.3	10.5	9.9	8.9	7.9	7.2	8.6	7.7	29	22	94	29	184	35	216	3	132	5	June.
10.1	8.4	9.1	9.3	8.0	7.8	7.1	6.7	36	26	173	56	156	46	185	12	76	14	July.
8.6	8.2	7.3	7.3	7.2	7.1	6.4	6.0	27	33	114	47	177	62	150	15	111	35	Aug.
9.0	8.2	7.1	5.9	6.3	6.1	6.3	5.9	32	28	91	52	228	40	193	10	44	34	Sept.
8.9	7.5	5.5	5.3	5.5	5.4	5.3	6.1	30	58	137	22	202	18	152	16	124	15	Oct.
9.4	7.6	5.3	5.5	5.6	5.4	5.6	6.3	29	73	166	30	156	35	110	22	97	31	Nov.
8.8	7.2	4.9	5.7	5.7	6.2	6.7	6.9	38	86	211	21	127	32	90	22	119	36	Dec.
10.6	9.7	8.4	7.5	6.6	6.6	6.7	7.3	.....	546	1,768	372	1,849	424	1,949	242	1,377	233	Year.

SAN FRANCISCO, CAL.

[h_s = 167 ft.; local time, 3h 10m S.]

10.9	10.2	10.0	9.8	9.2	9.3	8.4	10.0	40	67	13	37	38	25	43	117	404	0	Jan.
11.2	11.6	10.8	9.6	9.2	8.9	7.5	8.4	38	70	42	37	84	37	173	85	137	7	Feb.
15.0	16.0	14.5	13.6	12.7	10.9	9.2	10.1	43	15	46	58	192	76	248	53	56	0	Mar.
19.9	20.3	19.4	17.7	15.7	12.8	11.2	12.4	42	4	10	12	89	32	489	46	36	2	Apr.
20.0	20.6	21.3	19.6	18.4	15.3	12.7	12.2	38	8	10	5	39	58	561	22	39	2	May.
24.4	24.7	24.8	24.2	22.4	21.3	18.7	15.3	40	2	8	12	19	29	644	0	6	0	June.
25.2	24.6	24.7	25.3	23.3	19.8	17.0	15.3	37	8	5	8	21	185	504	11	1	1	July.
24.5	24.6	25.5	23.6	20.7	17.7	15.8	14.5	42	2	2	5	14	208	508	1	4	0	Aug.
20.8	21.2	21.5	19.4	17.3	14.2	12.6	12.6	35	9	6	20	41	149	426	52	17	0	Sept.
15.7	15.9	15.8	15.5	14.0	11.0	9.6	9.3	32	42	27	35	49	69	383	78	61	0	Oct.
9.9	10.8	12.1	11.1	9.0	8.3	7.6	7.7	47	55	26	32	113	119	231	60	83	1	Nov.
6.6	6.3	6.1	6.3	6.0	5.8	6.1	6.0	25	97	70	66	86	60	131	67	162	5	Dec.
17.0	17.2	17.2	16.3	14.8	12.9	11.4	11.2	.....	379	265	327	785	1,047	4,341	592	1,006	18	Year.

SAVANNAH, GA.

[h_s = 86 ft.; local time, 0h 24m S.]

9.6	8.4	8.9	8.5	8.5	8.4	8.0	9.2	34	41	44	52	44	65	125	145	228	0	Jan.
10.0	8.2	8.1	8.4	7.6	7.8	8.2	9.6	30	31	181	33	66	85	75	81	118	2	Feb.
10.7	9.1	8.2	7.9	7.6	7.5	8.7	9.4	44	51	50	48	160	115	49	99	172	0	Mar.
12.2	10.4	9.2	9.2	9.4	8.9	8.6	9.8	32	16	60	31	76	301	81	111	43	1	Apr.
13.0	11.0	8.6	8.5	8.6	8.3	8.5	9.6	34	45	60	42	60	237	119	64	117	0	May.
11.3	9.5	7.6	6.6	6.7	6.4	6.4	8.0	36	29	116	99	228	85	55	55	51	2	June.
11.5	9.0	6.8	6.4	6.1	5.5	5.3	6.8	38	16	79	57	141	94	167	125	65	0	July.
9.8	8.3	6.9	6.2	6.7	7.1	7.0	7.6	72	58	175	71	64	126	105	76	68	1	Aug.
7.8	6.0	6.2	5.9	5.7	5.3	5.1	6.3	26	56	107	64	174	179	94	23	18	5	Sept.
10.2	8.8	8.5	8.5	8.7	7.9	8.4	9.4	40	86	244	67	97	30	56	56	104	4	Oct.
7.4	7.6	7.5	6.9	6.8	7.3	7.4	8.2	32	141	116	15	76	45	105	49	173	0	Nov.
7.5	7.4	7.2	7.4	7.8	7.5	7.3	8.2	30	87	153	35	48	95	76	88	161	1	Dec.
10.1	8.6	7.8	7.5	7.5	7.3	7.4	8.5	.....	657	1,385	614	1,234	1,457	1,107	972	1,318	16	Year.

WASHINGTON, D. C.

[h_s = 87 ft.; local time, 0h 8m S.]

7.5	6.8	7.1	7.4	6.8	6.1	5.6	7.5	36	63	65	49	41	112	39	98	270	7	Jan.
10.4	8.9	8.2	8.5	8.1	8.2	8.0	8.7	42	67	87	27	40	106	99	40	202	4	Feb.
9.5	8.0	7.3	7.5	7.1	7.1	7.2	7.9	36	62	165	30	51	92	76	74	189	5	Mar.
10.2	9.5	7.8	7.2	7.1	7.5	7.5	8.2	38	40	122	56	69	138	124	35	126	10	Apr.
9.5	7.9	6.7	6.0	5.6	5.0	4.8	6.9	34	57	102	41	24	232	62	85	127	14	May.
6.7	5.8	4.8	3.6	3.6	3.8	3.7	5.3	26	71	106	108	102	71	92	53	110	7	June.
7.4	5.8	4.2	3.9	3.6	3.5	3.5	5.4	36	95	77	43	45	205	86	76	110	7	July.
7.6	6.5	4.7	4.3	3.7	3.7	4.3	5.8	42	109	80	15	133	176	35	45	124	27	Aug.
5.4	4.2	4.1	3.8	3.8	3.4	3.2	5.3	30	120	85	97	25	83	104	72	113	21	Sept.
5.8	5.8	5.6	5.2	5.1	5.1	5.3	6.0	42	125	158	34	42	124	63	47	132	19	Oct.
6.2	5.6	6.2	6.1	5.8	5.6	5.4	6.7	28	125	102	21	30	161	52	54	167	8	Nov.
7.1	6.6	6.7	6.7	6.7	6.3	5.6	6.8	36	102	46	7	27	208	89	54	185	26	Dec.
7.8	6.8	6.1	5.8	5.6	5.4	5.3	6.7	.....	1,036	1,195	528	629	1,708	921	733	1,855	155	Year.

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PART III.

MONTHLY AND ANNUAL METEOROLOGICAL SUMMARIES FOR ONE HUNDRED AND SIXTY-ONE WEATHER BUREAU STATIONS.

1893.

EXPLANATION OF THE TABLES.

For a detailed account of the methods of reduction, etc., the reader is referred to the article on that subject, p. 37, Report of the Chief of the Weather Bureau, 1891-'92.

Pressure.—The barometer used at Weather Bureau stations for personal observations is the ordinary portable mercurial open cistern. Each instrument is compared with the substandard at Washington before being issued, and a certificate is given showing both the corrections to the attached thermometer and the so-called correction for instrumental error. The latter is not applied except when it exceeds ± .006.

The monthly means and the extremes given in the summaries have been reduced to 32° F., but not to standard gravity. The latter correction is given for each station at the head of the table. Both means and extremes have been deduced from the personal observations at 8 a. m. and 8 p. m., seventy-fifth meridian time.

Temperature.—The temperature of the air at 8 a. m. and 8 p. m., seventy-fifth meridian time, is obtained by the use of the whirled dry-bulb thermometer. The latter is a part of the whirled psychrometer and is mounted in the wooden roof thermometer shelter adopted in 1885. The means of these observations are given in the column headed 8 a. m. and 8 p. m., respectively.

The maximum thermometer used is of the mercurial Negretti and Zambra pattern, having a constriction in the bore of the tube below the scale.

The minimum temperature is obtained by the use of the ordinary Rutherford alcohol minimum thermometer. Both instruments are read and recorded twice daily, at 8 a. m. and 8 p. m., seventy-fifth meridian time. The maximum thermometer is set daily at 8 a. m., and the minimum at 8 p. m. The extremes given in the summaries are for the civil day, midnight to midnight. The monthly means have been obtained by dividing the sum of the mean maxima and mean minima temperatures by 2.

Moisture.—The monthly means of the dew point, relative humidity, and vapor pressure, are given as computed directly from the original daily observations.

In using the tables by means of which the amount of atmospheric moisture is computed from the readings of the whirled psychrometer, that one which gives the influence on the psychrometer of the prevailing pressure has been neglected except at the elevated stations of Pikes Peak and Colorado Springs. Caution should be exercised in using the published vapor pressure, dew point, and relative humidity for the remaining high stations as computed by tables appropriate for low stations. The accuracy at present attained is confessedly below the demands of special laboratory studies, the needs of climatologists, and others, but answers fairly well for the use of forecast officials in the current daily routine of weather predictions.

The rain gauges used at the regular Weather Bureau stations have a circular catchment area of about 8 inches diameter, and the snow, hail, or sleet caught within them is melted and measured as water. The rain gauge proper is set within an inclosing cylinder of 8 inches diameter and 2 feet high, which serves as an overflow attachment in the case of heavy rains and as a snow gauge in the winter season.

The sum total of the depth of rain and melted snow is measured to within 0.01 inch, not only at the end of every shower, but also at 8 a. m. and 8 p. m., standard time daily. By adding these two regular observations we obtain the total precipitation for the twenty-four hours preceding 8 p. m. of the civil day to which it is accredited.

The snow caught and retained in the gauge is melted and measured as water. No correction is applied for the snow that is lost out of the gauge by the eddying action of the wind; consequently in some cases the record is less than would be given if the observer had measured cylinders of snow cut from the spots representing the average snowfall on the ground. When it is known that the catch of the snow gauge is markedly deficient, an independent ground measurement is made and used as the official record. The loss of both rain and snow caused by high winds is undoubtedly larger at the regular telegraph stations of the Weather Bureau than is the case at the voluntary stations whose gauges are located in the open country and near the ground, but this loss does not appear to be so large as to make the monthly and annual sums derived from these two classes of gauges wholly inconsistent with each other; on the contrary, except at a few stations, the differences between the annual rainfall at city and country gauges are not larger than is plausibly due to actual differences in the geographical distribution of rain.

By the maximum precipitation in twenty-four hours, is meant the actual measurements for any twenty-four hours; it does not refer to the rate of rainfall for twenty-four hours, as deduced from short, heavy showers.

The number of days with precipitation amounting to 0.01 and 0.04 inch, respectively, relates to the rainfall from 8 p. m. to 8 p. m., and not from midnight to midnight.

The cloudiness recorded in the summaries is derived from personal observations. The proportion of sky covered with clouds is estimated by the observer at 8 a. m. and 8 p. m., seventy-fifth meridian time, on a scale of 0–10. The two simultaneous observations can not be combined into a normal daily mean in the present state of our

knowledge of the diurnal variation in cloudiness, and are therefore given separately. In order, however, to obtain a general record of the sunshine as affecting the growth of plants, the observer keeps some memoranda of the cloudiness, sufficient to enable him at the end of the day to assign a percentage representing the average condition of the sky from sunrise to sunset; the resulting average for each month is given in the column of "daylight."

The number of days that are clear, as given under "number of days, etc.," includes those on which the daylight cloudiness has been 0, 1, 2, or 3 tenths; the days partly cloudy are those on which the daylight cloudiness has been 4, 5, 6, or 7 tenths; the cloudy days are those having 8, 9, or 10 tenths of cloudiness during daylight.

Wind.—The velocity of the wind is recorded at all Weather Bureau stations; the direction and velocity are recorded at about one-half of the stations on what is known as the "double register," which is, however, now being replaced in some cases by a "triple register" in order to provide for recording the rainfall, the sunshine, or some other meteorological element. The records from 28 of the stations that are furnished with double or triple registers will be found in Part II. On some of these instruments the direction of the wind is recorded every five minutes, while on the latest pattern a record is made every minute.

The maximum velocities given are for five-minute periods.

A wind velocity of 40 miles per hour is considered as a gale.

For additional information on wind registration see p. 22.

Number of days.—The number of days with snow includes all of those on which at least 0.01 of an inch of melted snow, corresponding to about one-tenth of an inch of unmelted snow, has fallen in the twenty-four hours preceding 8 p. m.

The number of days with hail includes all of those on which at least a trace of hail fell.

No record of amounts of dew is given.

The number of days with fog includes all of those on which fog prevailed for at least an hour, and was dense enough to obscure objects 1,000 feet distant.

References and abbreviations.—H = Height of barometer cistern above mean sea level; h_t. = height of thermometer above ground; h_r. = height of rain gauge above ground; h_a. = height of anemometer above ground.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893.

ABILENE, TEX.

[λ = 32° 23′ N.; ϕ = 99° 40′ W.; gravity corr. −0.03.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.			
January	28.28	28.65	27.90	37.2	49.4	57.0	34.1	45.6	76	18	30	31	78	53	.177	.179	.51	.48	5.0	2.3	3.1
February	28.27	28.85	27.76	37.4	48.0	56.0	32.7	44.4	75	10	32	31	84	56	.196	.179	.33	.25	5.3	4.3	5.7
March	28.22	28.76	27.73	45.8	62.1	67.8	43.9	55.8	90	20	35	33	68	37	.218	.200	.66	.66	2.8	3.1	3.4
April	28.08	28.38	27.75	59.8	77.8	82.0	57.6	69.8	97	40	48	41	67	31	.372	.290	.28	.26	4.2	3.7	3.8
May	28.10	28.39	27.70	65.4	79.3	83.3	61.7	72.5	103	42	56	53	80	44	.474	.423	5.78	2.85	4.4	2.8	3.8
June	28.13	28.45	27.70	71.4	88.3	92.0	69.2	80.6	104	60	63	57	77	38	.589	.478	.98	.74	1.8	2.1	3.1
July	28.20	28.36	28.01	76.9	93.1	97.0	75.6	86.3	102	67	65	58	67	33	.614	.497	.52	.52	1.3	2.2	2.4
August	28.18	28.44	27.99	72.8	85.7	90.4	71.3	80.8	98	55	64	60	75	46	.610	.541	3.36	1.92	3.7	4.6	4.7
September	28.17	28.41	27.81	69.5	85.3	90.1	68.5	79.3	104	57	58	53	69	36	.489	.405	2.30	2.30	1.9	1.7	2.3
October	28.27	28.55	27.90	55.5	70.8	79.4	54.8	67.1	94	37	37	36	51	28	.235	.216	.03	.03	0.4	0.9	0.8
November	28.27	28.58	27.95	43.4	53.1	60.6	41.1	50.8	86	26	33	32	70	48	.198	.185	1.00	.48	3.0	1.9	3.3
December	28.35	28.70	27.95	43.0	52.9	61.3	40.7	51.0	81	21	31	31	64	46	.196	.188	.52	.42	3.5	1.7	3.3
Year	28.21	28.85	27.70	56.3	70.5	76.4	54.3	65.3	104	10	46	43	71	41	.364	.315	16.27	2.85	2.9	2.6	3.3

ALBANY, N. Y.

[λ = 42° 39′ N.; ϕ = 73° 45′ W.; gravity corr., −0.01.]

January	29.87	30.46	29.12	14.5	18.0	23.6	10.0	16.8	45	−5	11	14	85	83	.076	.086	1.31	.60	7.3	5.0	6.5
February	30.02	30.76	29.09	19.3	24.0	29.2	14.0	21.6	51	−6	16	20	86	84	.098	.113	4.63	1.48	7.8	6.0	7.7
March	29.96	30.52	29.40	28.1	32.6	38.5	24.2	31.4	52	9	23	26	81	74	.127	.141	2.00	.58	7.2	5.4	6.3
April	29.97	30.46	29.50	40.3	45.6	52.8	35.3	44.0	72	24	33	34	76	66	.192	.201	2.10	.64	6.6	5.5	6.4
May	29.78	30.20	29.20	55.4	59.1	67.5	49.2	58.4	88	40	47	49	75	70	.334	.353	5.08	2.19	5.7	6.4	5.9
June	29.91	30.22	29.54	67.6	71.4	80.2	60.8	70.5	96	51	59	62	75	72	.512	.557	2.92	1.06	5.0	5.3	4.9
July	29.84	30.12	29.53	68.8	73.0	82.8	61.2	72.0	92	51	60	61	74	67	.520	.544	1.82	.50	4.4	4.5	4.8
August	29.88	30.15	29.27	68.1	72.8	82.0	62.0	72.0	94	50	61	62	78	70	.546	.564	7.21	2.62	4.9	4.2	5.0
September	29.95	30.29	29.45	55.4	59.7	67.8	50.5	59.2	79	38	50	51	82	75	.367	.392	3.20	1.45	5.7	4.6	5.5
October	30.02	30.47	29.09	48.9	53.6	62.5	44.9	53.7	75	28	44	45	84	74	.302	.316	1.67	.72	4.7	3.6	4.9
November	30.01	30.57	29.51	35.3	39.1	46.2	31.2	38.7	58	16	31	31	84	73	.179	.176	.91	.48	5.8	5.5	6.4
December	30.03	30.82	29.34	24.2	26.9	32.7	18.7	25.7	54	−3	19	22	80	81	.115	.126	2.54	.70	7.6	6.0	7.0
Year	29.94	30.82	29.09	43.8	48.0	55.5	38.5	47.0	96	−6	38	40	80	74	.281	.297	35.39	2.62	6.1	5.2	5.9

ALPENA, MICH.

[λ = 45° 5′ N.; ϕ = 83° 30′ W.; gravity corr., 0.]

January	29.24	29.68	28.47	10.6	14.8	20.7	6.1	13.4	43	−10	7	11	86	84	.062	.075	2.20	.75	8.8	7.8	8.3
February	29.39	30.17	28.68	12.3	15.9	24.4	4.8	14.6	40	−14	9	12	83	80	.070	.077	1.46	.32	7.4	4.6	5.9
March	29.34	29.89	28.63	21.5	26.6	32.9	17.1	25.0	56	0	18	22	85	80	.106	.118	2.09	.70	5.2	4.0	4.6
April	29.28	29.82	28.63	35.0	36.1	44.6	29.0	36.8	74	16	30	30	82	80	.171	.173	3.03	1.01	7.7	6.4	7.3
May	29.23	29.68	28.73	46.8	49.1	57.0	39.4	48.2	86	31	41	41	82	76	.261	.262	3.24	1.57	5.9	6.5	6.1
June	29.30	29.52	28.87	63.4	64.7	75.0	54.3	64.6	92	41	57	57	80	78	.468	.474	2.71	1.11	3.4	4.2	4.1
July	29.29	29.57	29.02	65.3	68.3	76.5	57.1	66.8	93	47	60	60	84	77	.527	.531	1.93	.64	4.8	4.0	4.8
August	29.35	29.65	29.09	61.0	66.3	73.8	53.4	63.6	92	42	55	57	82	75	.440	.477	2.00	.63	4.5	3.6	4.4
September	29.34	29.71	28.98	53.0	56.4	64.7	47.1	55.9	79	30	48	50	85	80	.351	.375	3.75	1.72	5.0	4.7	5.1
October	29.31	29.78	28.32	45.9	48.7	55.5	42.1	48.8	71	24	42	44	88	84	.283	.302	5.57	2.78	5.7	4.6	5.1
November	29.28	29.85	28.56	32.9	35.8	41.0	30.2	35.6	59	17	29	32	87	84	.167	.183	1.95	.88	6.8	6.9	7.1
December	29.33	30.06	28.65	21.1	22.6	27.9	16.1	22.0	49	6	18	18	88	83	.105	.106	3.42	.91	8.4	6.6	7.6
Year	29.31	30.17	28.32	39.1	42.1	49.5	33.1	41.3	93	−14	34	36	84	80	.251	.263	33.35	2.78	6.1	5.3	5.8

AMARILLO, TEX.

[λ = 35° 13′ N.; ϕ = 101° 50′ W.; gravity corr., −0.02′.]

January	26.27	26.58	25.95	30.1	43.7	52.1	27.1	39.6	73	14	13	19	64	41	.102	.105	.09	.09	3.2	2.8	3.3
February	26.25	26.71	25.76	25.9	37.8	43.5	22.6	33.0	72	4	21	23	81	59	.116	.126	2.03	1.68	6.2	5.2	5.7
March	26.20	26.67	25.79	34.4	55.1	61.4	32.6	47.0	85	15	20	17	56	24	.110	.095	T	T	3.1	4.0	3.7
April	26.14	26.44	25.81	43.8	64.9	69.2	42.4	55.8	90	28	25	16	51	21	.138	.105	.16	.16	3.0	3.2	3.4
May	26.18	26.49	25.86	52.1	70.1	74.1	49.9	62.0	92	30	41	37	69	39	.265	.243	2.19	1.45	4.6	4.0	4.4
June	26.23	26.55	25.93	64.5	81.6	86.5	62.7	74.6	102	53	52	45	68	34	.404	.315	2.03	1.21	4.9	5.3	4.9
July	26.30	26.48	26.08	68.8	84.1	88.2	67.2	77.7	98	61	57	51	68	36	.466	.382	2.05	.61	5.6	4.9	5.0
August	26.31	26.50	26.12	65.2	76.5	81.7	64.4	73.0	96	54	59	59	84	57	.515	.515	2.67	.91	6.4	6.9	6.7
September	26.25	26.54	25.87	60.1	76.1	81.1	59.6	70.4	95	49	48	43	68	39	.351	.308	5.27	3.36	3.4	3.5	3.5
October	26.30	26.58	25.95	46.4	61.6	69.3	45.6	57.4	84	35	32	32	60	34	.186	.184	.03	.03	1.7	2.0	2.0
November	26.28	26.60	25.85	33.7	45.7	53.4	31.9	42.6	76	16	22	23	62	42	.121	.122	.28	.24	3.4	2.9	3.3
December	26.33	26.66	25.87	32.7	42.2	49.3	30.2	39.8	65	17	24	28	72	60	.133	.160	.43	.23	4.2	3.1	4.1
Year	26.25	26.71	25.76	46.5	61.6	67.5	44.7	56.1	102	4	35	33	67	40	.242	.222	17.23	3.36	4.1	4.0	4.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893.

ABILENE, TEX.

[H = 1,748 ft.; h_t = 64 ft.; h_r = 53 ft.; h_a = 70 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	10.1	N.	36	SW.	0	11	4	1	12	13	11	4	6	0	19	7	5	3	2	1	0	0	0	0	10	0	0
February	14.7	N.	60	SW.	5	14	7	1	6	12	8	1	7	0	6	14	8	4	2	2	0	0	3	0	14	0	0
March	15.7	S.	50	SW.	3	10	5	1	8	18	10	7	3	0	14	16	1	1	1	0	0	0	0	0	4	1	0
April	14.9	S.	44	SW.	2	6	5	3	10	16	10	3	5	2	14	12	4	2	1	0	0	1	0	8	0	6	0
May	13.7	SE.	42	N.	2	7	7	2	14	19	6	2	3	2	15	11	5	6	5	0	0	0	0	10	0	5	0
June	12.8	S.	42	N.	1	5	7	2	18	27	0	0	0	1	18	10	2	3	3	0	0	0	0	17	0	3	0
July	11.4	S.	36	NE.	0	1	4	1	18	30	2	3	1	2	21	7	3	2	1	0	0	0	0	30	0	1	0
August	9.0	SE.	37	E.	0	1	16	7	13	22	2	0	1	0	15	5	11	8	7	0	0	0	0	19	0	2	0
September	11.5	S.	38	NE.	0	0	4	11	10	29	3	0	1	2	24	2	4	1	1	0	0	0	0	23	0	2	0
October	11.3	S.	40	NW.	1	9	3	1	11	23	7	3	4	1	28	3	0	1	0	0	0	0	0	5	0	0	0
November	11.7	N.	48	NE.	1	13	5	2	10	11	7	5	7	0	18	6	6	7	5	1	0	0	0	0	4	1	0
December	12.9	S.	50	NW.	1	12	3	1	8	17	8	5	7	1	19	5	7	2	2	0	0	0	0	0	7	0	0
Year	12.5	S.	60	SW.	16	89	70	33	138	237	74	33	45	11	211	98	56	40	30	4	0	1	3	112	39	21	0

ALBANY, N. Y.

[H = 85 ft.; h_t = 84 ft.; h_r = 99 ft.; h_a = 113 ft.]

January	8.1	NW.	26	SE.	0	13	6	1	2	16	2	8	14	0	3	16	12	10	8	8	0	0	25	0	31	0	0
February	9.6	NW.	40	NW.	1	11	2	1	6	9	0	9	18	0	3	7	18	15	14	12	0	0	18	0	27	0	0
March	9.5	NW.	44	SE.	1	8	4	0	3	20	0	5	22	0	7	10	14	13	10	5	0	0	7	0	22	0	0
April	10.2	NW.	38	NW.	0	6	7	0	11	10	2	11	13	0	6	12	12	14	10	3	2	0	0	0	8	2	0
May	8.4	S.	34	SE.	0	2	2	2	9	25	7	9	6	0	9	8	14	13	13	0	0	0	0	0	0	4	0
June	6.5	S.	38	SW.	0	4	5	2	9	24	2	5	8	1	10	14	6	9	9	0	0	0	0	3	0	5	0
July	7.1	S.	32	E.	0	5	5	0	2	23	4	12	11	0	11	16	4	11	5	0	0	0	0	1	0	6	0
August	7.0	S.	44	SE.	1	8	8	1	8	16	1	9	11	0	11	14	6	9	7	0	0	0	0	5	0	4	0
September	7.0	S.	32	SE.	0	11	4	0	7	15	8	3	12	0	10	10	10	11	7	0	0	2	0	0	0	2	0
October	7.4	S.	48	SE.	1	10	7	0	5	20	2	8	10	0	12	9	10	7	5	0	1	3	0	0	2	0	0
November	7.4	S.	38	SE.	0	9	6	1	6	18	5	6	8	1	3	16	11	6	4	1	0	1	1	0	15	0	0
December	8.4	NW.	43	N.	1	11	2	1	6	19	1	10	12	0	5	9	17	15	10	9	0	1	15	0	28	0	0
Year	8.0	S.	48	SE.	5	98	58	9	74	215	34	95	145	2	90	141	134	133	102	38	3	7	66	9	133	23	0

ALPENA, MICH.

[H = 609 ft.; h_t = 61 ft.; h_r = 54 ft.; h_a = 71 ft.]

January	9.7	W.	37	SE.	0	1	0	4	3	8	3	21	21	1	2	5	24	21	12	20	0	1	27	0	31	0	1
February	10.8	W.	38	SW.	0	2	5	6	6	6	7	11	11	2	9	8	11	13	11	11	0	1	21	0	28	0	0
March	12.1	SE.	43	E.	1	10	4	6	13	2	4	12	11	0	11	14	6	10	7	7	0	0	15	0	27	0	0
April	13.3	SE.	49	NW.	2	8	4	11	13	2	3	9	9	1	2	12	16	11	8	3	3	1	2	0	20	2	0
May	9.7	N.	36	N.	0	14	0	13	12	3	0	9	11	0	8	12	11	11	10	0	0	1	0	0	1	3	2
June	8.2	SE.	30	NW.	0	3	7	4	20	1	6	5	13	1	13	13	4	8	8	0	0	2	0	1	0	3	0
July	9.0	NW.	36	W.	0	1	3	4	12	7	9	7	19	0	10	17	4	14	11	0	0	1	0	2	0	6	1
August	7.7	SE.	32	SW.	0	17	4	4	15	5	0	8	7	2	13	13	5	8	5	0	1	3	0	2	0	2	2
September	9.8	SE.	38	NW.	0	1	0	7	13	3	7	15	14	0	7	15	8	10	9	0	0	1	0	0	1	4	0
October	11.0	SE.	39	NW.	0	2	4	2	17	9	6	8	14	0	9	13	9	12	10	4	0	1	1	0	4	0	0
November	10.5	SW.	31	NW.	0	1	1	1	4	16	18	12	7	0	4	7	19	15	7	8	0	3	7	0	16	0	1
December	10.9	SW.	35	NW.	0	4	3	5	2	10	12	10	15	1	2	10	19	20	20	17	0	1	21	0	29	0	0
Year	10.2	NW.	49	NW.	3	64	35	67	130	72	75	127	152	8	90	139	136	153	118	70	4	16	94	5	157	20	7

AMARILLO, TEX.

[H = 3,691 ft.; h_t = 53 ft.; h_r = 46 ft.; h_a = 61 ft.]

January	15.5	S.	56	SW.	8	15	2	2	0	17	15	5	6	0	18	10	3	1	1	1	0	1	3	0	23	0	0
February	18.3	N.	60	SW.	10	15	6	1	3	14	11	3	3	0	8	9	11	6	4	5	0	0	6	0	25	0	0
March	20.1	S.	60	SW.	14	12	1	3	2	20	13	6	4	1	14	10	7	9	0	0	0	0	9	0	13	0	0
April	21.3	SW.	66	W.	15	13	0	5	7	9	16	5	5	0	16	12	2	1	1	1	0	1	0	1	3	0	0
May	18.6	S.	52	NW.	10	15	4	7	8	17	8	1	2	0	12	13	6	9	5	0	1	0	0	3	1	3	0
June	19.1	S.	56	S.	14	10	1	5	8	30	3	1	2	0	10	13	7	13	7	0	1	0	0	14	0	12	0
July	18.5	S.	72	W.	13	3	1	7	4	39	7	1	0	0	10	14	7	12	10	0	0	0	0	13	0	9	0
August	15.5	S.	52	S.	7	7	2	11	12	28	0	0	1	1	5	13	13	18	13	0	1	0	0	3	0	12	0
September	17.0	S.	48	S.	5	5	2	4	4	30	12	3	0	0	17	8	5	6	5	0	0	0	0	5	0	1	0
October	17.2	S.	60	N.	9	11	0	1	2	25	11	10	2	0	23	7	1	2	0	0	0	0	0	0	0	0	0
November	17.0	N.	60	N.	10	21	2	0	2	10	10	2	3	1	17	9	4	3	1	2	0	0	1	0	14	0	0
December	16.4	S.	64	SW.	6	12	4	2	1	19	12	6	5	1	15	10	6	7	3	2	0	2	2	0	20	0	0
Year	17.9	S.	72	W.	121	139	25	48	53	267	118	43	33	4	165	128	72	78	50	11	3	4	12	39	99	37	0

a By eye observations at 8 a. m and 8 p. m., when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

ASTORIA, OREG.

[λ = 46° 57′ N.; φ = 124° W.; gravity corr., −.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January						43.4	33.8	38.6	53	16							3.00	.67			
February						44.7	35.2	40.0	51	22							12.42	2.60			
March						50.6	39.5	45.0	60	33							8.55	.87			
April						50.6	40.8	45.7	58	34							13.39	3.40			
May						58.2	46.8	52.5	67	41							5.44	1.10			
June						61.9	48.9	55.4	85	44							5.11	1.00			
July						68.0	53.5	60.8	78	47							.50	.22			
August						70.2	54.6	62.4	82	50							.63	.32			
September						63.2	51.6	57.4	76	45							5.03	1.32			
October						55.5	45.1	50.3	63	34							7.65	2.05			
November						50.5	40.4	45.4	56	31							17.41	2.65			
December						49.2	41.3	45.2	55	35							12.55	2.13			
Year						55.5	44.3	49.9	85	16							91.68	3.40			

ATLANTA, GA.

[λ = 33° 45′ N.; φ = 84° 23′ W.; gravity corr., −0.03]

January	28.87	29.18	28.38	31.0	38.9	43.6	28.4	36.0	65	8	25	26	77	59	.154	.155	3.02	1.15	4.3	3.5	4.7
February	28.97	29.42	28.62	43.0	48.3	53.2	39.1	46.2	70	30	37	37	81	68	.243	.238	5.45	1.80	4.3	5.4	6.7
March	28.91	29.19	28.41	44.4	55.1	60.5	42.2	51.4	79	18	35	35	71	50	.223	.220	2.43	.86	5.6	4.4	5.0
April	28.89	29.06	28.36	59.0	67.8	73.8	54.6	64.2	84	39	48	48	70	51	.363	.358	2.48	1.29	4.6	3.2	3.7
May	28.82	29.19	28.48	63.4	70.1	76.2	58.2	67.2	90	47	54	53	73	58	.434	.418	4.46	2.32	5.3	3.6	4.3
June	28.87	29.09	28.59	70.9	74.8	82.9	65.4	74.2	88	57	63	62	79	68	.591	.574	4.65	1.38	5.5	5.7	4.9
July	28.90	29.08	28.72	76.0	82.1	90.7	70.6	80.6	96	66	68	66	76	60	.678	.645	2.13	.73	3.4	5.8	4.6
August	28.83	28.98	28.35	72.1	77.4	85.7	68.3	77.0	91	62	66	66	83	70	.649	.637	4.07	1.25	5.7	6.1	6.0
September	28.89	29.06	28.67	67.7	74.4	81.7	64.4	73.0	90	55	61	62	82	68	.554	.562	3.06	.75	4.6	3.3	4.5
October	28.91	29.26	28.36	55.6	63.6	71.3	51.9	61.6	84	34	49	47	79	58	.370	.354	.39	.23	2.5	1.6	2.9
November	28.96	29.32	28.64	44.8	53.0	59.0	42.6	50.8	74	21	38	40	77	63	.246	.263	1.11	.47	5.5	3.2	4.9
December	29.05	29.43	28.64	41.5	48.5	55.0	38.2	46.6	67	21	35	37	78	66	.221	.235	3.18	1.41	5.2	3.6	5.2
Year	28.91	29.43	28.35	55.8	62.8	69.5	52.0	60.7	96	8	48	48	77	62	.394	.389	36.43	2.32	4.7	4.1	4.8

ATLANTIC CITY, N. J.

[λ = 39° 22′ N.; φ = 74° 25′ W.; gravity corr., −0.01.]

January	29.94	30.38	29.26	29.8	23.7	29.8	16.0	22.9	51	− 4	18	20	86	84	.106	.117	2.67	.93	5.0	4.0	5.2
February	30.09	30.76	29.22	30.1	34.0	38.1	26.0	32.0	60	9	24	28	77	79	.139	.161	3.43	.72	5.8	6.0	6.2
March	30.02	30.54	29.26	35.1	37.5	42.4	30.6	36.5	61	11	29	33	79	84	.169	.193	4.21	1.20	5.5	4.4	5.7
April	30.01	30.46	29.57	45.7	46.5	53.2	41.3	47.2	67	36	42	44	87	90	.267	.288	4.92	1.58	5.6	5.1	6.1
May	29.87	30.34	29.29	56.4	55.0	62.7	50.1	56.4	78	44	50	51	91	88	.374	.381	3.52	1.16	3.6	4.2	4.3
June	29.96	30.25	29.51	66.7	65.5	72.4	61.2	66.8	90	51	62	63	86	91	.561	.579	1.57	.49	4.4	5.0	5.0
July	29.93	30.20	29.66	72.1	72.1	78.8	66.2	72.5	93	58	64	67	77	84	.611	.667	3.28	1.36	2.5	4.2	3.4
August	29.93	30.16	29.51	71.3	72.3	77.4	66.5	72.0	86	56	66	67	84	84	.648	.667	3.55	1.23	4.1	3.2	3.6
September	30.00	30.26	29.63	63.2	64.8	70.7	58.6	64.6	84	44	55	58	76	79	.456	.494	3.61	1.16	4.0	3.2	4.5
October	30.07	30.47	29.33	55.4	57.2	62.8	50.5	56.6	75	30	49	50	80	79	.371	.384	1.74	.84	4.1	3.4	4.8
November	30.08	30.61	29.70	43.8	45.4	51.4	38.7	45.0	65	20	38	40	81	80	.242	.256	2.19	.79	6.0	4.7	6.4
December	30.10	30.85	29.46	36.4	38.3	44.4	31.2	37.8	59	15	32	33	84	89	.190	.195	2.44	.69	5.5	3.9	5.5
Year	30.00	30.85	29.22	49.8	51.0	57.0	44.7	50.9	93	− 4	44	46	82	84	.344	.365	37.13	1.58	4.7	4.3	5.1

AUGUSTA, GA.

[λ = 33° 28′ N.; φ = 81° 54′ W.; gravity corr., −0.03.]

January	29.88	30.25	29.37	32.6	41.3	47.9	29.6	38.8	68	12	28	30	82	65	.169	.183	2.92	1.94	4.2	3.9	3.7
February	29.99	30.44	29.53	45.3	52.8	59.4	42.2	50.8	74	31	40	42	88	71	.264	.288	5.26	1.27	5.4	6.8	6.5
March	29.91	30.22	29.42	47.2	57.9	64.4	44.2	54.3	81	23	41	40	81	55	.282	.276	2.81	1.11	4.4	4.3	4.9
April	29.87	30.07	29.37	62.1	72.5	80.2	57.6	68.9	91	42	54	50	75	47	.431	.374	.97	.80	3.6	3.5	2.9
May	29.78	30.17	29.44	66.6	73.1	81.6	59.8	70.7	94	49	58	55	75	57	.497	.458	3.22	1.48	4.2	4.5	3.9
June	29.83	30.04	29.52	73.8	77.5	86.4	67.8	77.1	98	59	68	66	82	70	.686	.647	7.71	2.14	5.4	6.8	5.0
July	29.84	30.05	29.70	77.6	81.8	92.8	71.8	82.4	98	67	71	70	81	69	.767	.731	3.51	1.05	3.3	6.1	3.7
Auguust	29.77	29.93	28.73	74.4	79.1	86.9	70.2	78.6	92	64	70	70	87	74	.740	.728	8.18	4.17	6.1	6.1	5.9
September	29.86	30.05	29.72	70.2	76.3	85.0	66.5	75.8	95	55	66	67	86	74	.642	.666	4.29	2.29	4.7	4.1	4.0
October	29.88	30.27	29.16	58.8	66.2	74.8	55.1	65.0	87	33	53	55	82	68	.421	.457	4.56	2.70	2.9	3.9	3.3
November	29.95	30.41	29.64	46.2	54.9	63.5	43.4	53.4	78	28	41	44	84	68	.277	.309	1.98	.93	4.1	3.6	4.4
December	30.05	30.51	29.63	42.2	52.3	61.1	39.5	50.3	74	25	38	40	85	65	.247	.264	3.50	1.21	3.7	3.7	3.5
Year	29.88	30.51	28.73	58.1	65.5	73.7	54.0	63.8	98	12	52	52	82	65	.452	.448	48.91	4.17	4.3	4.8	4.3

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

ASTORIA, OREG.

[H = — ft.; h_t = 39 ft.; h_r = 56 ft.; h_a = 60 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January		E.				0	4	20	0	0	4	1	2	0	6	5	20	13	11	7	0	3	2	0	9	0	0
February		E.				0	3	8	2	1	7	5	2	0	0	7	21	25	24	3	0	0	0	0	4	0	0
March		W.				0	1	7	0	3	8	11	1	0	1	8	22	24	22	0	0	0	0	0	0	0	0
April		W.				1	1	2	0	0	11	12	3	0	0	7	23	29	22	20	0	0	0	0	0	0	0
May		W.				0	0	1	0	0	12	14	4	0	4	10	17	22	15	0	0	0	0	0	0	0	0
June		SW.				0	0	2	0	0	10	9	9	0	7	5	18	16	13	0	0	0	0	0	0	0	0
July		NW.				0	0	0	0	0	3	11	17	0	15	10	6	9	4	0	0	0	0	0	1	0	0
August		W.				0	0	0	0	0	7	12	11	1	10	14	7	7	3	0	0	4	0	0	0	0	0
September		SW.				1	0	0	1	2	12	11	3	0	8	5	17	15	11	0	0	1	0	0	0	0	0
October		SW.				0	3	1	1	3	14	5	4	0	7	7	17	20	17	0	0	2	0	0	1	0	0
November		NE.				2	8	6	3	3	5	1	2	0	7	4	19	22	19	0	1	0	0	0	1	0	0
December		SW.				0	3	6	3	2	13	0	4	0	6	4	21	27	24	0	2	3	0	0	0	1	0
Year		SW.				4	23	53	10	14	106	92	62	1	71	86	208	229	185	10	3	13	2	0	14	3	0

ATLANTA, GA.

[H = 1,131 ft.; h_t = 92 ft.; h_r = 85 ft.; h_a = 123 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
January	11.7	NW.	42	SW.	1	0	3	7	5	2	11	12	22	0	13	9	9	7	7	3	0	2	7	0	18	0	0
February	11.6	NW.	34	NW.	0	1	13	5	6	5	6	5	15	0	5	8	15	15	10	0	0	3	0	0	4	1	0
March	10.6	NW.	44	NW.	1	4	4	3	10	5	8	7	21	0	11	10	10	10	7	0	0	0	1	0	6	2	0
April	11.7	SW.	44	SW.	2	1	5	5	9	5	21	3	11	0	18	7	5	11	8	0	0	0	0	0	4	0	0
May	10.5	NW.	49	NW.	1	3	6	6	4	6	11	12	14	0	15	9	7	12	11	0	0	0	0	1	0	7	0
June	8.2	NE.	48	NW.	1	6	9	10	12	3	6	5	9	0	10	12	8	15	11	0	0	0	0	0	0	4	0
July	7.5	NW.	36	NW.	0	5	6	5	6	9	7	13	11	0	11	14	6	9	5	0	0	0	0	21	0	4	0
August	6.9	NE.	40	NW.	1	3	14	10	8	3	7	7	9	1	9	7	15	12	12	0	0	0	0	4	0	5	0
September	7.5	SE.	26	NE.	0	4	8	12	10	4	8	5	8	1	14	7	9	10	9	0	0	0	0	0	0	2	0
October	10.1	NW.	38	W.	0	2	18	8	7	1	1	4	21	0	20	6	5	3	2	0	0	0	0	0	0	0	0
November	10.4	NE.	36	SE.	0	5	14	5	6	5	9	5	11	0	15	3	12	7	6	0	0	1	0	0	5	0	0
December	10.6	NW.	48	SW.	1	2	3	9	5	7	11	6	19	0	14	7	10	4	4	0	0	1	0	0	7	0	0
Year	9.8	NW.	49	NW.	8	36	103	85	88	55	106	84	171	2	155	99	111	115	92	3	0	11	8	26	40	29	0

ATLANTIC CITY, N. J.

[H = 53 ft.; h_t = 68 ft.; h_r = 57 ft.; h_a = 76 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
January	11.9	NW.	47	NW.	1	9	4	4	2	3	6	14	18	2	9	15	7	9	8	6	0	2	18	0	29	0	0
February	14.3	NW.	54	NW.	6	10	4	5	2	4	10	8	13	0	8	7	13	14	10	4	0	2	5	0	22	0	0
March	13.7	NE.	48	NE.	2	4	12	6	8	5	9	7	11	0	9	9	13	14	10	3	0	1	2	0	14	2	0
April	12.8	SW.	41	NE.	1	4	8	8	7	8	14	2	9	0	7	13	10	15	10	0	0	2	0	0	0	3	0
May	11.1	SW.	47	W.	1	6	6	6	3	11	16	10	4	0	14	11	6	11	8	0	0	2	0	0	0	3	0
June	10.4	SW.	36	NE.	0	7	13	9	5	4	17	4	1	0	10	14	6	10	6	0	0	2	0	0	0	3	0
July	9.2	SW.	32	N.	0	9	5	4	10	5	20	6	3	0	15	15	1	9	7	0	0	1	0	1	0	8	0
August	10.5	SW.	52	NE.	3	11	8	6	4	7	17	3	6	0	19	8	4	10	8	0	0	1	0	0	0	1	0
September	10.7	SW.	32	W.	0	12	1	9	5	6	12	6	8	1	13	11	6	10	9	0	0	0	0	0	0	3	0
October	10.7	E.	44	SE.	2	8	3	13	8	5	6	8	11	0	12	11	8	9	6	0	0	0	0	0	1	0	0
November	12.5	NW.	40	SE.	1	8	8	7	2	3	11	7	14	0	7	8	15	8	8	0	0	0	0	0	0	0	0
December	13.0	SW.	43	NW.	1	6	4	2	2	5	16	12	13	0	11	10	10	11	8	1	0	0	2	0	17	0	0
Year	11.7	SW.	54	NW.	18	96	76	79	58	66	154	87	111	3	134	132	99	130	98	14	0	13	27	1	90	20	0

AUGUSTA, GA.

[H = 209 ft.; h_t = 89 ft.; h_r = 54 ft.; h_a = 103 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
January	6.8	W.	36	NW.	0	3	5	4	5	4	7	16	6	12	16	8	7	8	7	3	0	1	3	0	20	0	0
February	7.4	NE.	33	NW.	0	7	12	4	3	8	3	8	3	8	6	9	13	13	11	0	0	4	0	0	3	0	0
March	7.3	NW.	44	NW.	1	4	8	3	6	12	6	6	13	4	13	7	11	10	8	0	0	2	0	0	4	2	0
April	7.4	S.	40	SW.	2	2	4	3	10	12	7	10	5	7	10	9	2	3	3	0	0	0	0	0	1	2	0
May	6.7	NW.	44	SW.	1	2	5	5	9	12	6	7	10	6	17	7	7	11	9	0	0	0	0	0	5	6	0
June	5.6	SE.	36	NW.	0	10	8	9	11	9	2	3	5	3	11	12	7	15	12	0	0	0	0	0	7	9	0
July	4.8	SE.	30	N.	0	1	5	4	12	12	6	4	11	7	15	14	2	11	8	0	0	0	0	0	0	0	0
August	5.5	SE.	52	NE.	2	5	14	8	13	9	2	2	5	4	8	11	12	13	12	0	0	1	0	25	0	14	0
September	4.1	Calm SE.	18	SE.	0	5	9	4	8	11	0	3	3	17	16	8	6	6	4	0	0	0	0	5	0	4	0
October	5.4	NE.	27	W.	0	9	17	2	4	4	1	2	12	11	18	7	6	5	4	0	0	0	6	0	1	0	0
November	5.7	NE.	24	NW.	0	8	14	3	2	2	9	4	10	8	13	11	6	5	4	0	0	0	2	0	0	0	0
December	6.0	NW.	25	W.	0	8	7	4	4	6	1	9	12	11	16	9	6	7	6	0	0	1	0	0	3	0	0
Year	6.1	NW.	52	NE.	6	64	108	57	87	101	50	74	95	98	168	112	85	107	88	3	0	16	3	49	36	39	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

BAKER CITY, OREG.

[λ = 44° 50′ N.; φ = 117° 50′ W.; gravity corr., 0.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.				Extremes.			Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly Mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	26.54	26.87	25.75	19.0	27.6	33.9	16.1	25.0	45	1	12	17	74	61	.075	.094	0.82	0.46	3.9	5.1	4.5
February	26.45	26.84	25.90	20.6	28.5	32.7	15.6	24.2	44	−17	15	19	78	66	.089	.104	1.62	.37	6.4	7.4	7.0
March	26.34	26.72	25.90	25.6	37.1	40.6	23.6	32.1	59	3	19	26	74	64	.107	.141	1.50	.38	6.1	6.8	6.4
April	26.37	26.70	25.74	34.3	46.2	49.7	32.9	41.3	60	21	28	30	76	56	.155	.172	1.85	.60	5.7	7.3	6.5
May	26.42	26.74	26.16	39.4	57.9	61.5	38.1	49.8	80	28	32	40	76	54	.185	.253	1.54	.66	4.3	5.3	4.8
June	26.44	26.63	26.11	42.1	66.5	70.0	40.4	55.2	82	33	33	35	70	33	.187	.204	.04	.02	2.6	4.1	3.6
July	26.44	26.58	26.27	50.5	77.5	80.9	49.1	65.0	100	37	38	41	63	29	.232	.261	.40	.31	2.1	3.4	3.1
August	26.44	26.66	26.10	50.7	80.3	82.9	48.9	65.9	99	38	34	40	53	25	.196	.248	T.	T.	.9	1.6	1.3
September	26.37	26.64	26.11	44.8	63.0	67.3	42.9	55.1	93	28	37	41	76	48	.224	.264	1.82	1.10	4.9	5.7	5.2
October	26.48	26.78	26.10	36.7	48.6	54.4	34.5	44.4	68	26	32	36	82	65	.180	.218	2.52	1.06	5.9	6.3	6.1
November	26.51	26.92	25.96	30.2	36.1	41.6	27.2	34.5	53	4	24	28	75	71	.136	.156	2.56	.57	5.3	6.6	6.0
December	26.55	27.01	26.15	28.5	34.0	38.7	26.7	32.7	51	11	23	26	79	70	.126	.140	.97	.48	5.6	6.0	5.7
Year	26.45	27.01	25.74	35.2	50.3	54.5	33.0	43.8	100	−17	27	32	73	54	.158	.188	15.83	1.10	4.5	5.5	5.0

BALTIMORE, MD.

[λ=39° 18′ N.; φ=76° 37′ W.; gravity corr.,—0.01.]

January	29.81	30.23	29.02	21.0	25.4	30.6	18.5	24.6	52	1	15	18	78	74	.092	.109	1.78	.91	5.8	4.0	5.0
February	29.96	30.60	29.08	30.3	35.4	40.9	27.2	34.0	61	11	24	25	76	67	.141	.142	4.43	1.21	5.6	5.2	5.9
March	29.88	30.42	29.23	35.9	42.4	47.6	33.0	40.3	62	16	28	30	72	62	.159	.175	1.38	.53	4.5	4.3	5.1
April	29.85	30.27	29.31	49.4	54.0	60.6	44.6	52.6	81	36	41	41	73	66	.264	.276	3.52	1.03	5.5	5.1	5.7
May	29.72	30.19	29.22	59.0	62.8	70.1	52.7	61.4	89	45	50	50	72	64	.367	.366	3.78	2.30	4.0	6.3	4.8
June	29.82	30.12	29.44	70.3	73.8	80.8	64.1	72.4	98	57	63	62	78	69	.583	.563	2.26	.64	5.6	5.4	5.4
July	29.79	30.06	29.52	73.9	78.0	86.3	67.6	77.0	96	58	63	64	70	63	.593	.598	1.88	1.10	4.2	5.0	4.0
August	29.79	30.03	29.35	72.0	76.6	83.6	65.7	74.6	90	57	61	64	68	66	.543	.607	1.81	1.02	4.0	3.3	3.9
September	29.87	30.15	29.50	62.7	66.9	74.3	58.8	66.6	88	44	54	55	74	66	.435	.448	1.80	.65	5.4	4.9	5.2
October	29.92	30.33	28.97	53.3	57.7	64.8	49.2	57.0	84	31	46	49	77	73	.327	.364	3.44	1.60	3.5	4.2	3.9
November	29.94	30.49	29.56	40.1	44.7	50.3	36.8	43.6	62	22	33	36	74	71	.191	.218	3.78	1.60	5.8	3.4	4.8
December	29.96	30.67	29.39	34.7	38.9	45.9	31.2	38.6	67	18	28	29	75	67	.159	.169	2.29	.65	5.5	3.0	4.9
Year	29.86	30.67	28.97	50.2	54.7	61.3	45.8	53.[illegible]		1	42	44	74	67	.321	.336	32.15	2.30	5.0	4.5	4.9

BISMARCK, N. DAK.

[λ = 46° 47′ N.; φ = 100° 38′ W.; gravity corr., 0.]

January	28.19	28.59	27.69	4.6	7.3	13.9	−2.9	5.5	42	−32	0	3	79	80	.051	.061	0.73	.21	6.6	5.8	6.2
February	28.22	28.89	27.80	1.0	6.5	12.5	−3.8	4.4	37	−41	−3	2	82	79	.047	.054	.20	.09	5.3	5.0	5.0
March	28.19	28.78	27.59	10.2	20.9	26.2	7.6	16.9	54	−20	7	15	84	77	.070	.096	1.52	.72	5.1	5.6	6.1
April	28.09	28.48	27.35	29.8	40.9	46.2	26.8	36.5	65	6	24	28	80	63	.134	.155	.69	.24	6.2	7.3	6.6
May	28.10	28.42	27.14	44.9	59.1	63.9	39.7	51.8	92	29	37	39	74	50	.227	.249	1.26	.48	4.7	4.6	4.8
June	28.04	28.31	27.68	60.5	73.0	77.6	54.7	66.2	93	42	52	55	77	55	.400	.448	4.33	1.27	4.6	4.2	4.4
July	28.13	28.42	27.75	63.1	78.3	82.8	57.6	70.2	98	50	55	56	76	49	.438	.468	1.48	.60	3.4	2.6	3.1
August	28.13	28.49	27.73	57.8	77.1	83.3	54.5	68.9	103	37	48	46	70	36	.342	.329	.67	.53	2.5	3.2	3.2
September	28.07	28.54	27.54	48.2	66.9	73.8	45.6	59.7	96	19	38	36	69	35	.254	.230	.18	.09	3.9	3.0	3.5
October	28.12	28.64	27.75	32.5	45.2	54.1	30.4	42.2	74	10	27	30	80	57	.154	.171	.95	.66	5.6	4.5	5.2
November	28.17	28.58	27.53	19.7	26.0	36.3	15.9	26.1	67	−15	15	17	79	68	.093	.106	.24	.05	6.6	4.6	5.4
December	28.20	28.78	27.68	6.1	11.6	17.3	−0.1	8.6	44	−29	1	6	78	76	.050	.063	1.49	.52	5.5	4.9	5.4
Year	28.14	28.89	27.14	31.5	42.7	49.0	27.2	38.1	103	−41	25	28	77	60	.188	.202	13.74	1.27	5.0	4.6	4.9

BOSTON, MASS.

[λ=42° 21′ N.; φ=71° .04′ W.; gravity corr., — 0.01.]

January	29.79	30.44	28.97	17.7	21.2	28.1	13.3	20.7	53	−4	11	12	75	67	.079	.082	2.56	1.00	5.6	4.5	5.3
February	29.93	30.65	28.76	23.9	27.6	34.6	19.0	26.8	53	−1	17	20	74	72	.106	.114	6.22	1.41	5.9	5.9	6.1
March	29.90	30.43	29.31	31.9	34.6	40.2	27.3	33.8	58	13	24	26	71	70	.137	.149	2.80	1.26	4.9	4.5	5.5
April	29.93	30.48	29.34	41.8	45.4	51.9	36.8	44.4	68	26	32	35	69	69	.184	.213	3.13	.88	6.6	6.2	5.9
May	29.76	30.16	29.17	55.3	56.3	64.0	48.6	56.3	88	38	46	46	73	73	.314	.319	5.23	2.81	5.6	5.4	5.8
June	29.89	30.19	29.60	63.9	63.8	71.6	57.9	64.8	94	52	58	59	82	84	.486	.504	2.20	1.16	6.2	6.4	5.6
July	29.79	30.05	29.49	70.6	71.1	80.4	62.5	71.4	91	54	58	59	65	67	.482	.507	1.72	1.07	2.7	5.1	4.7
August	29.84	30.14	29.53	67.5	69.4	76.7	62.4	69.6	93	53	59	60	77	73	.516	.524	6.46	2.23	4.5	5.3	5.5
September	29.89	30.26	29.50	57.5	59.8	67.8	52.2	60.0	80	43	51	52	78	76	.381	.398	1.59	.54	4.4	5.1	4.8
October	29.98	30.46	29.33	52.1	54.2	61.8	47.7	54.8	79	30	44	44	74	71	.305	.309	2.94	1.35	4.0	4.2	3.9
November	29.95	30.50	29.36	39.3	42.1	49.3	35.1	42.2	68	20	31	31	71	66	.181	.185	1.83	.66	5.4	4.3	5.3
December	29.95	30.74	29.23	28.6	30.5	37.6	23.1	30.4	57	Zero.	21	23	73	74	.125	.134	5.16	1.38	6.0	4.4	6.3
Year	29.89	30.74	28.76	45.8	48.0	55.3	40.5	47.9	94	−4	38	39	74	72	.275	.286	41.84	2.81	5.2	5.1	5.4

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

BAKER CITY, OREG.

[H = 3,430 ft.; h_t = 49 ft.; h_r = 38 ft.; h_a = 53 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	4.8	SE.	30	SE.	0	0	0	0	33	5	2	0	9	13	12	11	8	5	4	5	0	0	13	0	31	0	0
February	5.3	SE.	20	SE.	0	0	0	1	26	5	2	0	12	10	4	8	16	11	10	11	0	0	10	0	28	0	0
March	5.1	SE.	24	SE.	0	2	0	0	30	7	3	2	12	6	4	15	12	12	9	8	0	0	1	0	25	0	0
April	5.6	SE.	24	NW.	0	2	2	1	19	8	8	0	13	7	5	11	14	9	8	6	0	0	0	0	12	0	0
May	5.4	SE.	24	NW.	0	4	2	0	21	5	3	0	18	9	10	13	8	8	6	0	0	0	0	0	3	0	0
June	5.5	N.	22	SW.	0	22	1	0	7	20	2	1	7	0	16	11	3	3	0	0	0	0	0	0	0	0	0
July	4.5	NW.	18	N.	0	8	0	0	10	19	0	0	23	2	19	7	5	4	3	0	0	0	0	5	0	0	0
August	5.0	NW.	20	SW.	0	2	0	0	5	22	8	0	23	2	26	4	1	0	0	0	0	0	0	2	2	1	0
September	5.0	S.	28	SW.	0	4	1	0	10	20	7	0	16	2	10	7	13	10	8	0	0	0	0	2	2	1	0
October	4.2	Calm / S.	20	S.	0	2	0	0	12	14	5	0	13	16	8	10	13	10	8	1	0	0	0	0	10	0	0
November	5.7	SE.	27	SW.	0	0	0	0	26	5	9	0	9	11	8	9	13	16	10	6	0	0	2	0	22	0	0
December	4.2	SE.	24	NW.	0	0	1	0	30	6	7	0	6	12	7	15	9	7	6	5	0	0	3	0	25	0	0
Year	5.0	SE.	30	SE.	0	46	7	2	229	136	56	3	161	90	129	121	115	95	72	42	0	0	29	13	158	3	0

BALTIMORE, MD.

[H=179 ft.; h_t=87 ft.; h_r=80 ft.; h_a=100 ft.]

January	8.8	NW.	39	NW.	0	2	5	5	5	1	5	14	19	6	13	10	8	8	6	7	0	1	19	0	26	0	0
February	9.9	NW.	45	NW.	3	6	6	7	5	1	9	7	13	2	9	10	9	14	8	8	0	0	6	0	18	1	1
March	9.3	NW.	36	NW.	0	7	11	5	5	6	7	9	8	4	11	11	9	11	9	2	0	0	1	0	12	1	0
April	9.2	SE.	42	NW.	1	5	8	9	10	7	6	6	8	1	9	11	10	15	11	0	0	1	0	0	0	0	0
May	8.9	W.	43	W.	2	7	5	7	11	4	8	12	7	1	14	8	9	14	10	0	0	0	0	0	0	4	0
June	6.8	E.	28	NW.	0	7	8	14	5	1	10	5	8	2	9	11	10	14	9	0	0	0	4	0	0	6	0
July	6.7	SW.	42	NW.	1	8	7	7	8	6	14	4	7	1	13	14	4	11	5	0	1	0	0	8	0	5	0
August	7.0	SE.	42	SE.	1	10	7	1	12	7	8	1	10	6	19	6	6	6	5	0	0	0	0	0	0	1	0
September	7.0	W.	36	NW.	0	7	7	6	3	3	8	14	5	7	12	9	9	8	6	0	0	0	0	0	0	2	0
October	7.2	NW.	40	SE.	1	5	10	7	7	4	4	8	12	5	18	4	9	9	7	0	0	1	0	0	1	0	0
November	7.5	N.	32	SE.	0	12	6	5	5	5	7	10	9	1	15	6	9	11	9	1	0	1	0	0	8	0	0
December	7.8	SW.	33	NW.	0	7	4	3	3	3	17	8	10	7	13	12	6	11	3	2	0	5	2	0	17	0	0
Year	8.0	NW.	45	NW.	9	83	84	76	79	48	103	98	116	43	155	112	98	132	93	20	1	9	28	12	82	20	1

BISMARCK, N. DAK.

[H = 1,698 ft.; h_t = 59 ft.; h_r = 52 ft.; h_a = 69 ft.]

January	9.5	NW.	52	N.	3	9	1	7	6	4	1	2	24	8	7	12	12	12	7	12	0	0	24	0	31	0	2
February	10.8	NW.	47	NW.	2	3	1	5	5	3	1	2	30	6	9	12	7	7	1	7	0	0	24	0	28	0	2
March	9.6	NW.	39	NW.	0	6	5	9	7	3	2	2	18	10	7	14	10	9	7	9	0	1	21	0	30	0	0
April	12.9	NW.	49	NW.	6	9	9	6	12	3	3	2	15	1	2	16	12	9	5	4	0	0	2	0	24	0	0
May	11.6	E.	60	NW.	3	7	4	14	9	9	1	2	13	3	13	9	9	10	6	0	0	0	0	1	5	4	1
June	9.8	NW.	48	NW.	1	5	3	5	8	6	3	3	23	4	13	12	5	9	9	0	2	2	0	4	0	12	0
July	8.8	NW.	40	NW.	1	6	5	7	13	10	0	0	17	4	18	10	3	9	6	0	2	0	0	7	0	9	2
August	10.5	NW.	41	NW.	2	9	5	4	9	10	4	4	15	2	19	7	5	5	3	0	0	1	0	6	0	3	4
September	12.2	NW.	40	NW.	1	6	1	8	12	8	0	1	20	4	17	10	3	4	2	0	0	0	0	6	5	5	2
October	10.7	NW.	45	NW.	3	6	1	6	5	5	3	6	28	2	10	14	7	7	4	0	0	0	0	15	0	1	1
November	11.0	NW.	44	NW.	1	7	4	8	4	3	2	2	29	1	7	15	8	8	3	6	0	0	13	0	26	0	2
December	9.6	NW.	56	NW.	2	10	0	10	12	2	2	2	22	2	13	8	10	13	8	12	0	0	26	0	31	0	0
Year	10.6	NW.	60	NW.	25	83	39	89	102	66	22	28	254	47	135	139	91	102	61	50	4	4	110	24	195	33	16

BOSTON, MASS.

[H = 126 ft.; h_t = 115 ft.; h_r = 154 ft.; h_a = 182 ft.]

January	11.6	W.	52	S.	2	9	1	1	3	1	7	23	17	0	12	7	12	12	9	11	0	1	20	0	30	0	0
February	14.1	W.	45	W.	2	5	4	4	0	8	6	17	12	0	9	6	13	16	15	11	0	0	7	0	26	0	1
March	13.2	W.	48	NE.	1	5	5	6	1	6	10	14	15	0	11	8	12	9	8	3	0	1	4	0	21	1	0
April	11.9	NW.	42	W.	2	6	9	6	6	3	11	9	10	0	10	4	16	14	11	2	0	1	0	0	4	1	0
May	11.5	W.	48	E.	1	4	7	8	1	14	9	14	5	0	8	12	11	14	9	0	0	0	0	0	1	1	0
June	9.5	E.	30	E.	0	5	11	16	2	6	13	3	4	0	8	13	9	10	9	0	0	0	0	2	0	1	0
July	10.5	W.	33	NW.	0	3	2	1	4	6	16	15	15	0	11	15	5	11	6	0	0	0	0	2	0	5	0
August	10.2	NW.	48	S.	2	5	3	8	6	6	12	8	14	0	9	14	8	13	8	0	0	2	0	2	0	2	0
September	10.5	W.	44	NW.	1	5	6	0	3	8	12	13	13	0	14	5	11	12	5	0	0	1	0	0	0	1	1
October	10.7	SW.	49	S.	1	4	4	6	3	5	15	10	14	1	16	10	5	5	4	0	0	1	0	1	0	1	3
November	11.3	SW.	39	SE.	0	6	4	1	5	3	13	17	11	0	8	13	9	6	5	2	0	1	1	0	9	0	2
December	11.8	W.	48	W.	1	5	3	2	1	1	14	20	16	0	8	9	14	16	13	8	0	2	11	0	24	0	0
Year	11.4	W.	52	S.	13	62	59	59	35	67	138	163	146	1	124	116	125	138	102	37	0	10	43	6	115	12	7

a By eye observations at 8 a. m. and 8 p. m., when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

BLOCK ISLAND, R. I.

[λ = 41° 10′ N.; ϕ = 71° 36′ W.; gravity corr., −0.01.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In*			
January	29.91	30.51	29.12	23.3	25.1	29.4	18.0	23.7	52	2	16	18	73	75	.098	.111	2.65	.99	5.5	4.2	5.3
February	30.06	30.75	29.06	28.0	30.2	34.2	22.9	28.6	47	6	22	24	76	76	.129	.137	6.06	1.96	5.8	5.3	5.9
March	30.02	30.52	29.33	32.5	34.6	38.7	28.8	33.8	51	15	27	29	80	80	.153	.163	5.73	2.03	4.7	4.0	5.7
April	30.05	30.56	29.47	41.1	42.0	47.3	36.9	42.1	57	30	36	38	82	86	.213	.230	5.45	1.88	5.0	4.0	6.3
May	29.88	30.27	29.27	51.9	51.5	57.6	46.5	52.0	71	39	46	47	83	86	.320	.324	4.92	1.62	4.0	4.1	5.2
June	29.99	30.31	29.61	61.0	60.1	65.8	55.6	60.7	86	47	58	57	90	90	.484	.470	1.61	.46	4.8	4.1	5.9
July	29.92	30.18	29.57	67.1	66.7	74.9	61.7	68.3	81	55	60	62	79	86	.523	.559	.97	.34	3.1	3.1	4.3
August	29.95	30.22	29.48	66.5	67.4	72.7	62.6	67.6	79	56	62	64	87	90	.570	.604	5.41	2.99	3.9	2.4	4.5
September	30.01	30.37	29.69	60.6	61.8	66.0	56.4	61.2	73	48	54	55	80	78	.429	.441	2.58	.59	4.5	3.5	4.7
October	30.09	30.55	29.43	54.2	54.9	59.2	50.2	54.7	68	35	49	50	83	83	.363	.370	2.75	1.31	3.5	4.2	4.7
November	30.08	30.62	29.51	44.1	45.6	50.1	39.4	44.8	62	27	38	38	78	76	.240	.244	2.16	.85	4.8	4.5	5.0
December	30.08	30.87	29.40	35.8	36.4	41.4	29.1	35.2	58	9	30	30	78	76	.178	.177	4.55	1.28	5.9	4.1	5.2
Year	30.00	30.87	29.06	47.2	48.0	53.1	42.3	47.7	86	2	42	43	81	82	.308	.319	44.84	2.99	4.6	4.0	5.2

BUFFALO, N. Y.

[λ = 42° 53′ N.; ϕ = 78° 53′ W.; gravity corr., 0.01.]

January	29.15	29.61	28.30	15.5	16.1	22.1	11.5	16.8	48	−5	12	13	85	74	.078	.081	2.33	.79	9.2	8.7	8.3
February	29.32	30.05	28.51	20.5	23.2	28.5	13.9	21.2	47	−4	16	17	82	78	.097	.098	4.21	.74	8.5	6.5	7.4
March	29.27	29.78	28.80	28.8	32.0	37.4	23.6	30.5	59	9	23	24	79	73	.132	.137	2.62	.89	7.5	7.4	6.1
April	29.24	29.65	28.61	40.1	42.2	48.1	33.8	41.0	63	24	33	32	76	68	.191	.181	4.49	1.56	7.7	7.0	6.6
May	29.12	29.56	28.46	52.9	54.3	60.8	44.6	52.7	80	38	43	45	72	73	.287	.304	4.76	1.91	6.5	6.5	6.3
June	29.24	29.54	28.85	66.9	68.5	74.3	60.5	67.4	85	53	58	60	75	75	.495	.521	1.65	.61	5.0	4.8	5.0
July	29.22	29.47	28.99	69.3	72.0	77.5	62.4	70.0	85	49	60	59	74	66	.538	.521	1.44	.54	4.3	5.7	4.9
August	29.27	29.51	28.77	67.2	71.0	77.0	60.5	68.8	90	49	59	59	77	67	.510	.504	4.91	4.25	3.9	4.6	4.8
September	29.28	29.53	28.98	58.7	61.6	67.9	52.6	60.2	81	40	52	54	78	77	.399	.433	2.71	.95	6.1	4.0	6.1
October	29.30	29.74	28.16	51.0	53.9	61.0	46.0	53.5	81	31	43	44	74	70	.287	.303	2.53	.93	7.0	4.3	6.1
November	29.28	29.87	28.75	38.3	40.5	45.8	34.5	40.2	66	21	29	32	70	70	.168	.180	2.63	.85	6.4	6.8	7.2
December	29.31	30.00	28.62	27.9	29.1	33.7	21.6	27.6	55	8	22	23	78	76	.128	.131	4.36	.99	9.0	7.2	8.6
Year	29.25	30.05	28.16	44.8	47.3	52.8	38.8	45.8	90	−5	38	38	77	72	.276	.283	38.64	4.25	6.8	6.1	6.4

CAIRO, ILL.

[λ = 37° 0′ N.; ϕ = 89° 10′ W.; gravity corr., −0.02.]

January	29.69	30.10	29.16	25.1	32.8	38.2	20.7	29.4	62	Zero.	20	27	82	77	.118	.159	1.26	.73	4.7	4.3	4.8
February	29.77	30.50	29.26	33.0	39.6	44.9	27.9	36.4	64	6	29	33	86	78	.173	.198	3.93	1.06	6.2	5.5	5.9
March	29.69	30.13	29.10	42.1	50.5	55.5	39.0	47.2	77	10	35	37	76	62	.221	.235	2.09	1.35	5.0	4.4	4.9
April	29.56	29.90	28.86	55.9	64.2	68.6	51.8	60.2	83	33	48	50	77	61	.354	.373	6.91	2.06	6.2	5.9	6.6
May	29.56	29.86	29.17	60.8	68.0	72.6	57.3	65.0	85	48	55	56	81	66	.435	.453	6.70	1.34	5.1	4.7	5.2
June	29.61	29.90	29.21	71.1	77.1	82.6	67.0	74.8	89	60	63	65	77	68	.585	.630	7.59	3.03	4.5	3.7	5.7
July	29.65	29.78	29.50	75.8	82.8	88.3	71.9	80.1	94	67	68	69	78	64	.688	.707	1.23	.90	3.8	2.8	5.2
August	29.62	29.80	29.49	70.1	78.9	85.9	67.1	76.5	93	58	62	64	76	60	.560	.594	1.64	.61	3.6	2.6	4.2
September	29.63	29.96	29.34	65.3	72.8	80.1	62.3	71.2	92	44	58	63	79	72	.502	.585	6.83	2.70	4.5	3.4	4.2
October	29.71	30.13	29.38	51.2	59.5	67.0	48.8	57.9	84	33	47	51	85	72	.339	.386	6.26	2.67	2.1	1.9	2.2
November	29.73	30.12	29.18	40.2	48.3	54.1	38.1	46.1	74	19	33	39	76	71	.204	.251	2.75	1.49	3.7	3.5	4.0
December	29.81	30.31	29.24	35.0	42.5	47.1	32.8	40.0	67	14	28	35	74	75	.162	.212	1.60	.89	4.2	4.3	4.8
Year	29.67	30.50	28.86	52.1	59.8	65.4	48.7	57.1	94	Zero.	46	49	79	69	.362	.399	48.79	3.03	4.5	3.9	4.8

FORT CANBY, WASH.

[λ = 46° 16′ N.; ϕ = 124° 4′ W.; gravity corr., 0.]

January	29.91	30.24	29.21	39.1	40.4	43.3	34.9	39.1	60	16	36	37	88	89	.216	.230	3.69	.80	4.9	5.8	7.5
February	29.79	30.25	29.14	39.6	41.7	44.0	35.6	39.8	52	18	37	39	91	91	.222	.240	11.66	1.98	7.2	8.6	8.5
March	29.65	30.10	29.11	42.5	46.0	48.6	39.2	43.9	61	32	37	39	82	79	.219	.241	7.79	.94	7.6	7.5	8.0
April	29.79	30.16	29.20	42.8	45.9	49.3	40.4	44.8	56	36	40	41	91	83	.251	.257	10.89	2.74	9.4	8.9	8.2
May	29.86	30.25	29.53	47.9	50.7	54.6	46.2	50.4	65	42	44	46	88	84	.293	.308	3.66	.63	8.0	8.3	7.5
June	29.89	30.06	29.48	51.0	55.3	58.1	49.0	53.6	81	45	46	47	86	77	.316	.326	3.30	.80	8.2	6.0	6.2
July	29.88	30.02	29.54	55.0	59.7	64.0	53.7	58.8	69	50	52	54	90	81	.389	.416	.13	.04	7.1	4.3	3.4
August	29.82	30.01	29.60	55.7	59.3	64.4	53.5	59.0	82	48	53	54	92	83	.406	.415	.81	.88	5.3	3.6	5.3
September	29.74	30.09	29.40	53.0	55.7	59.5	50.5	55.0	77	46	50	51	91	86	356	.377	4.61	.97	5.7	5.5	6.4
October	29.86	30.26	29.33	48.1	51.2	54.4	45.8	50.1	65	38	45	46	89	83	303	.311	6.46	2.45	5.6	5.6	5.2
November	29.82	30.27	29.06	44.5	46.9	49.5	41.4	45.4	59	35	41	42	89	84	266	.269	12.91	1.83	5.1	6.5	6.9
December	29.89	30.31	29.20	44.0	44.9	47.0	41.3	44.2	52	36	42	42	92	90	.265	.268	9.49	1.53	6.9	6.2	7.2
Year	29.82	30.31	29.06	46.9	49.8	53.1	44.3	48.7	82	16	44	45	89	84	.293	.305	75.40	2.74	6.8	6.4	6.7

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

BLOCK ISLAND, R. I.

[H = 27 ft.; h_t = 39 ft.; h_r = 3 ft.; h_a = 48 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation 0.01 inch and over.	Precipitation 0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Maximum temp. Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	18.1	NW.	70	NE.	4	1	15	3	2	1	5	6	27	2	10	14	7	13	11	9	5	0	1	6	0	25	0	2
February	19.8	NW.	69	NW.	12	2	7	4	5	0	9	7	22	0	7	11	10	11	9	5	0	1	6	0	25	0	2
March	18.9	NW.	60	NE.	7	2	16	2	4	1	11	5	21	0	10	12	9	13	10	8	0	2	4	0	20	1	0
April	14.4	SW.	63	SE.	6	1	4	5	7	4	20	4	13	2	9	9	12	12	10	2	1	6	0	0	3	0	0
May	15.3	SW.	48	SW.	2	1	6	4	9	3	18	11	9	1	12	10	9	13	11	0	0	2	0	0	0	0	0
June	13.7	SW.	46	NE.	3	3	11	9	14	1	14	3	5	0	6	13	11	6	5	0	0	7	0	0	0	0	0
July	12.9	SW.	48	SW.	1	1	5	2	2	0	22	11	16	3	14	16	1	9	5	0	0	4	0	0	0	3	0
August	12.7	SW.	72	NE.	3	3	9	5	9	3	16	8	9	0	16	8	7	8	6	0	0	6	0	0	0	1	0
September	13.2	NW.	46	NE.	4	2	12	4	5	4	9	9	12	2	11	12	7	13	10	0	0	1	0	0	0	1	0
October	12.3	NE.	48	SW.	2	4	12	4	10	3	8	4	10	7	12	15	4	5	5	0	0	5	0	0	0	0	0
November	17.5	NW.	50	NE.	6	2	9	7	5	0	10	7	20	0	9	15	6	6	6	0	0	0	0	0	5	0	0
December	18.8	NW.	52	NE.	8	4	11	0	2	2	13	9	21	0	12	11	8	16	13	2	0	1	4	0	18	0	0
Year	15.6	NW.	72	NE.	58	27	117	49	74	22	155	84	185	17	128	146	91	125	101	21	1	35	31	0	101	6	2

BUFFALO, N. Y.

[H = 690 ft.; h_t = 103 ft.; h_r = 93 ft.; h_a = 108 ft.]

January	13.0	SW.	59	SW.	2	0	8	2	10	4	18	8	12	0	0	8	23	21	13	17	0	1	26	0	31	0	0
February	13.9	SW.	60	SW.	4	2	4	7	5	4	15	13	5	1	1	13	14	19	17	14	0	2	16	0	28	0	0
March	13.0	SW.	48	SW.	5	1	10	8	3	6	20	6	8	0	4	16	11	18	13	10	0	1	10	0	26	1	0
April	12.5	SW.	49	W.	2	2	11	7	9	2	14	9	6	0	1	20	9	16	13	3	1	0	0	0	9	1	0
May	9.9	SW.	56	SW.	1	2	6	5	2	8	23	12	4	0	5	15	11	16	13	0	0	0	0	0	0	4	0
June	8.5	SW.	56	SW.	1	6	4	4	2	8	23	9	4	0	8	19	3	11	7	0	0	0	0	0	0	6	0
July	10.0	SW.	48	W.	1	2	3	1	2	3	23	8	19	1	5	24	2	9	8	0	0	1	0	0	0	7	1
August	7.7	NW.	42	SW.	1	7	15	2	1	3	16	4	14	0	11	18	2	5	4	0	0	0	0	0	0	1	0
September	10.6	NW.	42	NW.	1	3	6	8	7	8	13	1	14	0	3	22	5	11	8	0	0	0	0	0	0	2	0
October	12.2	SW.	61	SW.	4	2	9	8	8	10	8	7	10	0	8	14	9	8	7	0	0	0	0	0	1	0	0
November	15.3	NW.	52	SW.	6	0	3	6	7	6	14	4	20	0	3	13	14	16	11	6	0	0	2	0	10	0	0
December	15.5	W.	58	W.	6	7	1	3	4	3	14	13	17	0	0	8	23	24	20	17	0	1	16	0	25	0	0
Year	11.8	SW.	61	SW.	34	34	80	61	60	65	201	94	133	2	49	190	126	174	134	67	1	6	70	0	130	22	1

CAIRO, ILL.

[H = 359 ft.; h_t = 87 ft.; h_r = 78 ft.; h_a = 93 ft.]

January	9.3	NW.	36	NW.	0	11	2	1	9	12	4	5	18	0	12	13	6	6	4	6	0	0	9	0	27	0	0
February	11.1	NW.	36	SW.	0	8	3	3	11	5	2	9	12	3	10	5	13	12	10	4	0	1	3	0	18	1	0
March	11.3	S.	39	NW.	0	12	2	2	10	16	5	11	4	0	13	8	10	7	3	2	0	0	1	0	9	1	0
April	12.2	SE.	47	S.	6	5	6	6	14	12	5	6	6	0	6	9	15	13	12	1	1	0	0	0	0	8	0
May	8.7	S.	50	S.	1	14	4	3	9	18	6	3	5	0	11	8	12	11	11	0	0	0	0	0	0	9	0
June	6.4	S.	36	SW.	0	9	9	11	6	14	2	5	4	0	10	9	11	12	9	0	0	0	0	0	0	5	0
July	6.2	S.	40	NW.	1	8	5	1	3	14	14	9	7	1	11	11	9	5	4	0	0	0	0	12	0	0	0
August	6.3	N.	25	NE.	0	16	9	2	5	3	10	5	10	2	14	12	5	4	3	0	0	0	0	7	0	2	0
September	6.8	S.	28	NW.	0	11	6	4	1	26	4	0	3	5	16	5	9	9	8	0	0	0	0	3	0	3	0
October	6.8	S.	29	W.	0	4	2	4	8	15	4	9	10	6	24	2	5	7	6	0	0	0	2	0	0	4	0
November	9.0	NW.	38	NW.	0	7	6	3	9	8	5	4	18	0	16	6	8	7	6	0	0	2	2	0	6	1	0
December	10.7	S.	35	S.	0	7	5	2	5	24	3	5	11	0	13	8	10	8	6	0	0	2	2	0	17	1	0
Year	8.7	S.	50	S.	8	112	59	42	90	167	64	71	108	17	156	96	113	101	82	13	1	5	17	22	77	43	0

FORT CANBY, WASH.

[H = 179 ft.; h_t = 10 ft.; h_r = 2 ft.; h_a = 34 ft.]

January	11.9	SE.	68	SE.	6	6	6	4	32	2	0	3	7	2	5	7	19	14	9	4	0	8	2	0	6	0	0
February	18.5	SE.	80	SE.	13	4	0	2	23	8	1	5	13	0	3	4	21	25	25	5	0	6	0	0	4	0	0
March	18.8	SE.	72	S.	16	3	2	6	18	15	2	10	6	0	4	6	21	23	21	0	2	1	0	0	1	0	0
April	14.6	W.	72	S.	11	4	1	6	7	14	4	16	8	0	2	7	21	25	23	0	1	0	0	0	0	1	0
May	12.0	NW.	55	S.	5	9	2	4	5	13	4	16	13	2	3	10	18	18	15	0	0	3	0	0	0	0	0
June	12.3	W.	60	S.	4	12	1	2	1	7	13	12	10	3	10	8	12	14	9	0	0	0	0	0	0	0	0
July	8.7	N.	30	N.	0	30	0	0	6	2	2	9	11	2	19	9	3	7	1	0	0	1	0	0	0	0	0
August	8.9	N.	34	S.	0	26	5	1	3	15	2	3	6	1	15	5	11	6	4	0	0	0	0	0	0	1	0
September	11.5	N.	64	SE.	3	16	3	3	9	11	1	10	5	2	10	3	17	13	10	0	0	7	0	0	0	0	0
October	12.3	N.	90	S.	6	12	2	2	6	11	8	8	9	4	13	5	13	17	17	0	1	4	0	0	0	0	0
November	16.8	NE.	89	SE.	15	4	13	7	10	11	3	5	5	2	9	2	19	19	18	0	0	3	0	0	0	1	0
December	15.8	E.	84	S.	9	2	3	12	11	9	9	11	4	1	6	5	20	26	22	1	0	10	0	0	0	0	0
Year	13.5	S. E.	90	S.	88	128	38	49	131	118	48	102	97	19	99	71	195	207	174	10	4	52	2	0	11	3	0

a By eye observations at 8 a. m. and 8 p. m., when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

CAPE HENRY, VA.

[λ = 36° 56′ N.; φ = 76° 00′ W.; gravity corr., —.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.				Extremes.			Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January						37.0	21.9	29.4	63	6							1.65	.78			
February						52.5	35.0	43.8	67	22							3.47	1.06			
March						52.0	37.0	44.5	78	24							3.44	1.56			
April						68.6	49.9	59.2	88	40							1.19	.44			
May						73.4	56.2	64.8	93	45							6.07	1.26			
June						80.7	66.5	73.6	94	58							7.62	3.97			
July						85.6	70.4	78.0	99	63							5.69	2.70			
August						82.9	69.6	76.2	95	62							3.77	.87			
September						78.3	64.4	71.4	90	52							4.58	1.92			
October						67.0	55.8	61.4	78	43							2.10	1.22			
November						57.2	44.4	50.8	75	30							7.43	4.60			
December						56.0	40.3	48.2	72	27							3.76	1.41			
Year						65.9	51.0	58.4	99	6							50.77	4.60			

CARSON CITY, NEV.

[λ = 39° 8′ N.; φ = 119° 47′ W.; gravity corr., —0.02.]

January	25.37	25.67	24.74	30.9	41.6	46.6	25.8	36.2	60	18	21	23	68	49	.113	.128	4.24	1.52	3.0	5.0	5.4
February	25.30	25.63	24.94	30.2	41.4	46.7	24.7	35.7	64	12	20	21	67	43	.111	.110	2.33	.70	4.6	3.9	4.6
March	25.17	25.50	24.79	34.7	47.3	50.6	31.5	41.0	70	16	23	22	62	38	.121	.118	1.42	.72	5.9	6.2	6.4
April	25.25	25.52	24.77	37.2	50.9	55.5	33.0	44.2	67	19	21	21	52	32	.112	.112	.89	.60	4.3	5.3	5.1
May	25.27	25.54	25.09	42.1	61.9	65.3	39.2	52.2	80	28	27	26	56	27	.148	.146	.27	.18	2.1	3.2	2.4
June	25.28	25.45	25.08	49.0	73.8	75.6	45.6	60.6	83	40	29	26	46	17	.160	.143	.00	.00	0.3	0.4	0.3
July	25.29	25.42	25.17	55.2	80.0	82.8	51.0	66.9	93	42	36	32	48	18	.214	.185	T.	T.	0.6	1.3	0.8
August	25.29	25.46	25.15	54.9	80.8	83.5	50.7	67.1	92	44	38	34	54	20	.231	.203	.10	.07	0.6	2.0	0.9
September	25.23	25.35	25.09	46.8	65.6	69.1	42.4	55.8	84	30	33	31	59	29	.192	.179	.91	.58	2.5	3.8	2.6
October	25.33	25.58	24.97	38.9	58.3	63.8	35.0	49.4	75	24	25	25	58	28	.133	.135	.08	.05	1.1	2.2	1.2
November	25.38	25.73	24.99	34.1	47.6	53.9	29.3	41.6	63	8	21	20	58	34	.117	.120	1.67	.81	3.4	4.4	3.4
December	25.41	25.79	25.05	31.6	44.3	50.7	27.2	39.0	63	12	20	23	62	43	.109	.126	.19	.10	2.7	4.4	2.7
Year	25.30	25.79	24.74	40.5	57.8	62.0	36.3	49.1	93	8	26	25	58	32	.147	.142	12.10	1.52	2.6	3.5	3.0

CHARLESTON, S. C.

[λ = 32° 47′ N.; φ = 79° 56′ W.; gravity corr., —0.03.]

January	30.04	30.41	29.52	38.2	43.6	51.2	35.6	43.4	69	20	29	31	68	64	.178	.194	3.22	1.00	4.4	3.8	4.1
February	30.14	30.55	29.74	50.5	55.3	63.3	48.1	55.7	78	38	43	48	77	79	.297	.355	2.97	1.03	5.4	5.0	5.6
March	30.07	30.35	29.45	52.0	55.4	63.0	48.4	55.7	76	26	44	46	75	73	.316	.342	3.07	.94	5.3	4.6	5.0
April	30.06	30.28	29.72	65.7	66.4	76.0	60.4	68.2	87	50	55	57	71	74	.460	.487	1.16	.97	4.5	3.8	4.3
May	29.95	30.29	29.61	70.8	70.7	79.7	64.9	72.3	88	54	60	61	69	74	.532	.560	3.36	.91	4.6	4.6	4.6
June	29.99	30.21	29.53	77.0	77.2	84.3	71.4	77.8	94	66	68	70	76	78	.697	.727	16.50	4.40	5.3	5.7	5.8
July	30.00	30.20	29.88	80.9	80.4	90.2	75.5	82.8	99	68	72	72	73	77	.772	.793	4.65	2.83	5.0	6.4	5.3
August	29.92	30.06	29.28	77.4	77.8	85.4	73.2	79.3	92	69	72	73	84	85	.782	.808	15.53	3.80	6.7	6.9	6.8
September	30.02	30.18	29.84	75.2	77.0	84.1	71.9	78.0	94	59	68	71	80	81	.709	.759	7.10	2.59	5.0	4.8	5.0
October	30.00	30.40	28.86	63.0	67.4	75.1	61.3	68.2	83	43	56	59	80	75	.481	.525	7.51	4.52	4.2	3.2	3.8
November	30.09	30.55	29.75	53.0	57.7	65.1	50.5	57.8	78	33	46	50	78	76	.334	.383	1.36	.57	4.7	4.0	4.6
December	30.20	30.65	29.79	48.3	53.3	61.1	46.0	53.6	73	33	43	47	83	81	.296	.339	4.56	1.71	4.4	2.9	4.1
Year	30.04	30.65	28.86	62.7	65.2	73.2	58.9	66.1	99	20	55	57	76	76	.488	.523	70.99	4.52	5.0	4.6	4.9

CHARLOTTE, N. C.

[λ = 35° 13′ N.; φ = 80° 51′ W.; gravity corr., —0.02.]

January	29.20	29.54	28.64	26.9	35.0	41.6	23.5	32.6	67	5	19	20	72	55	.120	.128	2.43	.66	4.1	3.0	4.3
February	29.33	29.81	28.79	40.5	45.8	52.6	36.7	44.6	67	26	33	34	75	68	.209	.216	7.46	1.46	4.7	5.2	5.6
March	29.25	29.62	28.68	43.1	52.5	59.6	39.6	49.6	77	18	36	36	75	56	.227	.234	1.74	.44	4.5	2.9	4.9
April	29.23	29.50	28.74	56.7	66.1	73.9	52.0	63.0	89	36	46	44	70	48	.328	.303	1.64	.98	3.2	3.4	4.5
May	29.14	29.54	28.79	62.5	68.5	77.3	56.2	66.8	90	44	52	51	71	58	.407	.391	4.23	1.94	4.5	4.4	5.0
June	29.22	29.45	28.94	70.4	73.5	83.9	64.4	74.2	90	58	63	62	79	70	.580	.565	5.48	1.56	4.4	6.1	5.4
July	29.23	29.46	29.03	75.8	81.0	92.0	69.3	80.6	100	64	67	65	74	60	.656	.621	4.22	2.32	2.8	5.5	4.3
August	29.17	29.35	28.33	71.6	75.9	84.1	66.5	75.3	93	58	66	66	83	73	.639	.643	9.81	4.54	4.9	5.8	5.6
September	29.26	29.44	29.08	66.1	71.6	80.4	61.9	71.2	91	47	61	62	85	74	.558	.578	6.99	2.33	5.5	4.3	4.6
October	29.27	29.68	28.37	54.9	60.6	69.5	51.2	60.4	85	32	50	50	83	70	.375	.384	8.27	4.57	3.7	3.5	4.4
November	29.31	29.79	28.97	42.4	50.2	57.7	40.1	48.9	74	21	36	37	78	64	.227	.246	2.44	1.13	4.0	2.5	4.5
December	29.38	29.94	28.92	39.0	46.6	54.7	36.2	45.4	68	25	32	33	77	61	.198	.206	1.62	.68	4.4	3.2	4.0
Year	29.25	29.94	28.33	54.2	60.6	68.9	49.8	59.4	100	5	47	47	77	63	.377	.376	56.33	4.64	4.2	4.2	4.8

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

CAPE HENRY, VA.

[H = — ft.; h_t = 5 ft.; h_r = 6 ft.; h_a = 34 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	12.5	NW.				2	2	1	5	2	5	3	8	3	15	8	8	9	5	5	0	3	14	0	27	0	0
February	14.6	SW.				2	5	1	6	1	8	2	3	0	12	4	12	14	11	0	0	10	1	0	10	0	0
March	14.8	SE.				7	2	1	9	3	4	0	4	1	12	9	10	11	11	2	0	3	0	0	5	0	0
April	14.9	SE.				2	3	3	11	3	6	0	2	0	9	11	10	11	6	0	0	3	0	0	0	1	0
May	12.7	SE.				1	4	5	10	5	4	1	1	0	12	10	9	12	11	0	0	0	0	5	0	3	0
June	11.9	SE.				0	5	4	7	4	5	2	3	0	17	7	6	8	8	0	0	2	0	6	0	4	0
July	9.8	S.				1	4	6	6	9	2	0	3	0	17	10	4	10	9	0	0	0	0	8	0	4	0
August	12.5	SE.				2	8	4	9	2	3	0	3	0	14	5	12	11	10	0	0	0	0	5	0	2	0
September	13.6	SE.				2	2	2	8	4	7	1	4	0	16	6	8	11	9	0	0	1	0	2	0	2	0
October	15.0	NE.				4	9	4	4	1	4	3	2	0	18	6	7	7	6	0	0	1	0	0	0	0	0
November	15.8	NW.				5	5	1	4	4	3	1	7	0	11	5	14	8	7	0	0	0	0	0	3	0	0
December	14.3	SW.				4	0	1	0	7	10	3	6	0	16	7	8	10	9	0	0	3	0	0	6	0	0
Year	13.5	SE.				32	49	33	79	45	61	16	46	4	169	88	108	122	102	7	0	26	15	26	51	16	0

CARSON CITY, NEV.

[H = 4,720 ft.; h_t = 44 ft.; h_r = 42 ft.; h_a = — ft.]

January															14	4	13	10	6	3	0	4	1	0	28	0	0
February															12	8	8	7	7	7	0	0	0	0	25	0	0
March															9	5	17	6	6	5	0	0	0	0	20	0	0
April															13	8	9	6	4	5	0	0	0	0	15	0	0
May															28	2	1	4	2	1	0	0	0	0	4	1	0
June															30	0	0	0	0	0	0	0	0	0	0	0	0
July															29	1	1	0	0	0	0	0	0	0	0	0	0
August															30	0	1	2	1	0	0	0	0	1	0	1	0
September															23	4	3	6	3	0	1	0	0	0	1	3	0
October															30	1	0	2	1	0	0	0	0	0	15	0	0
November															19	4	7	6	4	1	1	0	0	0	18	0	0
December															22	4	5	2	2	2	0	0	0	0	22	0	0
Year															259	41	65	51	38	24	2	4	1	4	148	8	0

CHARLESTON, S. C.

[H = 52 ft.; h_t = 60 ft.; h_r = 55 ft.; h_a = 72 ft.]

January	8.8	W.	35	S.	0	5	7	7	2	1	12	14	14	0	12	14	5	8	6	1	2	2	0	0	13	1	0
February	10.0	W.	44	NE.	1	4	12	8	4	4	7	13	4	0	5	16	7	14	11	0	0	4	0	0	0	1	0
March	9.3	SW.	44	W.	1	8	6	4	8	5	17	6	8	0	10	15	6	12	10	0	0	2	0	0	1	3	0
April	10.5	SW.	66	S.	1	3	3	5	3	7	27	8	4	0	9	18	3	5	3	0	0	1	0	0	0	3	0
May	10.0	SW.	34	S.	0	6	6	8	1	4	24	10	3	0	11	16	4	10	7	0	0	1	0	0	0	8	0
June	9.3	SE.	54	E.	1	4	8	13	17	4	11	2	1	0	2	21	7	13	12	0	0	1	0	3	0	15	0
July	7.2	SW.	38	NE.	0	3	7	8	7	3	25	8	1	0	5	23	3	9	6	0	0	0	0	17	0	21	0
August	9.8	NE.	96	E.	2	4	15	9	7	8	12	6	1	0	3	16	12	19	17	0	0	0	0	2	0	16	0
September	7.3	S.	28	S.	0	5	7	6	11	15	12	1	3	0	10	14	6	9	8	0	0	2	0	3	0	2	0
October	10.0	NE.	60	NE.	2	10	25	8	4	2	3	6	4	0	14	13	4	7	5	0	0	8	0	0	0	1	0
November	8.2	N.	28	SE.	0	14	12	4	4	5	7	8	6	0	10	15	5	5	4	0	0	4	0	0	0	1	0
December	8.0	N.	35	SW.	0	16	11	3	4	4	14	7	3	0	13	14	4	6	6	0	0	2	0	0	0	1	0
Year	9.0	SW.	96	E.	8	82	119	83	72	62	171	89	52	0	104	195	66	117	95	1	2	27	0	25	14	73	0

CHARLOTTE, N. C.

[H = 773 ft.; h_t = 68 ft.; h_r = 59 ft.; h_a = 76 ft.]

January	6.9	SW.	48	SW.	1	1	9	2	6	11	15	5	12		14	11	6	8	8	5	0	5	9	0	22	0	0
February	8.2	NE.	30	NW.	0	2	16	8	3	7	12	1	7	0	11	3	14	16	16	1	0	6	0	0	6	1	0
March	8.3	SW.	37	SW.	0	5	7	8	9	10	13	5	5	0	14	4	13	9	8	3	0	3	0	0	6	2	0
April	9.8	SW.	42	SW.	2	6	14	3	2	9	17	7	2	0	13	12	5	6	4	0	0	1	0	0	0	3	0
May	7.3	SW.	36	W.	0	1	10	4	5	10	21	3	7	1	14	6	11	10	8	0	0	0	0	0	0	6	0
June	5.9	SW.	24	N.	0	8	10	8	8	6	10	4	5	1	10	11	9	16	11	0	0	0	0	1	0	12	0
July	5.4	S.	42	W.	1	2	4	10	3	16	11	9	6	1	12	16	3	9	7	0	1	0	0	23	0	9	0
August	6.1	E.	42	SE.	1	1	12	14	9	10	8	2	3	3	12	6	13	10	9	0	0	1	0	2	0	4	0
September	5.1	SW.	26	SW.	0	1	6	12	9	10	15	2	2	3	15	4	11	8	7	0	0	0	0	2	0	3	0
October	6.5	NE.	32	SW.	0	5	24	14	4	5	4	3	2	1	16	7	8	10	8	0	0	1	0	0	1	0	0
November	7.1	SW.	24	S.	0	1	15	7	2	9	16	1	5	4	14	7	9	8	5	0	0	2	0	0	5	0	0
December	7.8	SW.	38	SW.	0	5	10	7	5	6	22	4	1	2	16	8	7	10	5	0	0	2	0	0	11	1	0
Year	7.0	SW.	48	SW.	5	38	137	97	65	109	164	46	57	17	161	95	109	120	96	9	1	21	9	28	51	41	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1892—Continued.

CHATTANOOGA, TENN.

[λ = 35° 4′ N.; φ = 85° 15′ W.; gravity corr.,—0.03.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.27	29.61	28.67	37.4	37.6	43.3	24.4	33.8	69	5	26	32	95	83	.157	.198	2.39	0.68	6.0	4.5	5.5
February	29.37	29.93	28.96	41.7	47.5	53.6	38.7	46.2	70	22	41	44	96	89	.268	.299	8.02	2.49	8.2	6.6	6.7
March	29.30	29.64	28.78	42.6	54.4	61.2	40.1	50.6	80	15	40	44	90	69	.265	.297	2.55	.80	6.2	4.7	5.0
April	29.24	29.47	28.68	57.2	66.6	74.1	53.6	63.8	86	37	53	56	87	71	.423	.463	5.38	2.77	6.4	3.9	5.9
May	29.18	29.55	28.90	61.4	66.6	76.9	56.6	66.8	92	46	59	62	93	80	.508	.570	8.35	2.52	6.1	4.4	5.0
June	29.24	29.43	28.97	70.4	76.3	84.4	64.8	74.6	91	58	68	72	93	86	.698	.783	6.31	3.04	4.4	5.4	5.0
July	29.27	29.45	29.09	75.3	81.9	90.5	70.5	80.5	98	65	68	68	79	65	.694	.699	1.24	.28	3.2	5.6	5.0
August	29.21	29.34	28.81	71.5	78.1	86.5	67.5	77.0	92	62	66	66	82	68	.634	.638	4.18	1.56	4.8	4.7	4.9
September	29.27	29.48	29.03	65.5	73.6	82.2	61.3	71.8	95	48	60	62	84	69	.536	.569	2.19	.72	4.0	3.8	4.5
October	29.32	29.68	28.82	51.6	61.9	72.0	48.4	60.2	84	27	48	51	88	69	.352	.399	.98	.33	2.9	1.4	3.2
November	29.35	29.73	28.99	43.6	52.6	60.5	40.8	50.6	76	22	39	41	83	65	.249	.270	1.91	.97	5.3	4.7	5.2
December	29.44	29.78	28.89	38.4	45.8	53.7	35.3	44.5	67	22	33	38	81	74	.199	.236	3.46	1.26	6.4	4.1	5.7
Year	29.29	29.93	28.67	53.9	62.2	69.9	50.2	60.0	98	5	50	53	88	74	.415	.452	47.46	3.04	5.3	4.5	5.1

CHEBOYGAN, MICH.

[λ = 45° 39′ N.; φ = 84° 29′ W.; gravity corr., 0.]

January	29.24	29.74	28.50	7.9	12.0	16.8	3.6	10.2	30	−17	4	9	84	85	.054	.064	1.31	.34	7.1	6.8	7.2
February	29.39	30.19	28.66	8.5	13.8	21.5	1.4	11.4	41	−15	5	11	85	87	.062	.076	.61	.10	6.4	4.2	5.6
March	29.34	29.90	28.60	19.7	25.2	31.1	15.7	23.4	50	−3	16	21	83	83	.095	.117	.85	.57	5.9	4.8	5.2
April	29.28	29.81	28.58	33.3	34.6	42.3	27.9	35.1	69	14	28	29	79	79	.156	.160	1.80	.72	7.6	7.4	6.9
May	29.24	29.70	28.76	46.5	48.1	56.6	38.5	47.6	79	30	39	40	78	76	.248	.253	1.52	.60	5.3	5.8	5.4
June	29.30	29.51	28.92	63.5	64.6	73.6	53.3	63.4	89	41	55	55	74	74	.439	.443	1.91	1.10	4.4	3.6	4.2
July	29.29	29.56	28.99	64.5	67.1	75.6	56.9	66.2	87	47	57	59	78	76	.480	.502	3.72	.77	4.9	4.3	4.4
August	29.36	29.66	29.09	62.0	65.7	73.6	54.3	64.0	93	42	54	55	78	70	.433	.441	1.44	.58	3.5	4.4	3.4
September																					
October																					
November																					
December																					
Year																					

CHEYENNE, WYO.

[λ = 41° 8′ N.; φ = 104° 48′ W.; gravity corr., −0.01.]

January	23.92	24.26	23.46	26.6	32.2	42.7	21.2	32.0	54	0	16	14	63	47	.090	.079	.08	.05	2.5	2.3	2.8
February	23.88	24.27	23.47	20.7	27.5	35.6	14.7	25.2	53	−4	13	14	71	56	.078	.080	.87	.42	4.3	4.4	4.1
March	23.86	24.26	23.46	25.4	36.2	42.3	21.5	31.9	71	6	15	19	65	50	.084	.101	.78	.29	4.4	4.8	4.9
April	23.88	24.10	23.44	31.0	44.3	49.3	27.9	38.6	71	18	21	24	64	49	.110	.129	1.36	.45	4.6	5.4	5.2
May	23.94	24.30	23.44	40.2	55.3	60.5	36.1	48.3	82	20	26	29	59	43	.140	.160	1.64	.42	3.8	5.4	5.4
June	24.02	24.23	23.75	53.2	72.4	77.7	46.6	62.2	91	32	30	37	43	31	.164	.228	1.33	.87	1.8	4.8	4.2
July	24.09	24.32	23.82	57.4	76.2	83.1	53.6	68.4	91	46	42	37	57	28	.271	.240	.69	.46	2.6	4.5	4.2
August	24.11	24.33	23.93	58.3	71.6	77.9	50.4	64.2	88	38	43	47	69	44	.284	.330	1.14	.36	3.5	4.4	4.4
September	24.01	24.35	23.57	46.5	66.9	72.7	43.6	58.2	84	26	32	34	56	32	.184	.198	.29	.29	.7	2.7	2.5
October	24.02	24.31	23.71	38.3	49.3	59.3	34.2	46.8	76	16	27	30	64	49	.147	.165	.22	.09	3.4	3.7	4.1
November	23.96	24.25	23.59	31.5	35.1	45.6	24.1	34.8	62	3	20	20	61	52	.112	.108	.29	.13	4.1	3.1	3.9
December	23.96	24.30	23.64	29.5	32.5	41.7	23.8	32.8	57	9	20	19	64	57	.102	.102	.53	.26	4.4	3.7	4.5
Year	23.97	24.35	23.44	37.8	50.0	57.4	33.1	45.3	91	−4	25	27	61	45	.147	.160	9.22	.87	3.3	4.1	4.2

CHICAGO, ILL.

[λ = 41° 53′ N.; φ = 87° 37′ W.; gravity corr., −0.01.]

January	29.08	29.40	28.50	11.1	13.9	18.8	5.3	12.0	46	−16	9	11	88	87	.069	.079	2.08	.60	7.0	5.3	6.9
February	29.19	29.96	28.53	19.5	23.7	28.3	14.7	21.5	46	−9	15	20	82	85	.094	.114	2.44	.87	6.5	5.2	6.1
March	29.11	29.63	28.35	30.7	35.2	39.5	27.0	33.2	69	9	25	30	78	81	.149	.176	1.69	.55	6.3	5.0	6.9
April	29.01	29.34	28.08	41.7	45.5	51.3	37.3	44.3	84	27	34	38	77	77	.204	.234	4.16	1.32	6.9	7.7	6.9
May	29.03	29.39	28.58	50.7	54.4	59.2	45.7	52.4	83	37	42	45	74	73	.275	.317	1.93	.91	6.6	5.2	5.5
June	29.10	29.38	28.72	65.3	69.9	74.9	60.8	67.8	85	48	57	60	76	72	.468	.524	3.50	1.46	4.1	4.4	4.6
July	29.11	29.36	28.88	71.6	76.1	80.6	66.9	73.8	94	60	62	66	72	71	.558	.633	3.08	1.14	5.1	3.1	3.1
August	29.15	29.37	28.89	67.6	71.4	76.0	65.6	69.8	95	54	54	59	64	67	.429	.513	.18	.16	3.4	3.5	3.1
September	29.12	29.48	28.78	59.9	66.1	71.0	57.2	64.1	95	39	48	52	67	65	.367	.412	1.98	.95	4.7	3.8	4.4
October	29.13	29.57	28.50	48.4	55.2	60.5	44.6	52.6	81	26	40	44	74	67	.271	.305	1.75	.80	4.3	2.0	4.1
November	29.14	29.57	28.46	33.2	37.2	42.5	29.4	36.0	67	4	26	30	76	75	.154	.175	2.45	.91	4.5	3.8	5.2
December	29.18	29.84	28.60	24.7	27.9	32.6	18.2	25.4	58	−6	21	23	86	80	.129	.136	2.14	.81	6.4	5.8	6.1
Year	29.11	29.96	28.08	43.7	48.0	52.9	39.2	46.1	95	−16	36	40	76	75	.263	.302	27.47	1.46	5.5	4.6	5.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

CHATTANOOGA, TENN.

[H = 762 ft.; h_t = 106 ft.; h_r = 97 ft.; h_a = 112 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.(a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	5.7	NW.	32	NW.	0	5	9	2	1	7	4	12	15	7	9	14	8	10	8	5	0	4	9	0	23	0	0
February	7.3	NW.	30	SW.	0	5	11	0	8	11	1	4	14	2	3	13	12	15	13	0	0	3	0	0	4	4	0
March	7.0	NW.	32	NW.	0	10	7	2	1	8	7	9	16	2	11	14	6	9	8	1	0	0	1	0	6	2	0
April	7.3	SW.	36	SW.	0	5	3	2	4	14	15	7	10	0	5	18	7	17	13	0	0	0	0	0	0	11	0
May	5.6	W.	26	NW.	0	3	5	2	5	11	9	16	11	0	12	11	8	14	12	0	0	0	0	1	0	8	0
June	4.4	W.	27	W.	0	5	11	4	8	9	5	12	6	0	9	17	4	12	11	0	1	1	0	2	0	11	0
July	5.7	SW.	28	W.	0	6	4	5	5	8	16	11	6	1	7	22	2	16	9	0	0	0	0	17	0	17	0
August	5.5	NE.	34	NW.	0	8	11	3	11	7	10	5	7	0	10	16	5	11	7	0	0	2	0	2	0	16	0
September	5.4	NE.	31	SE.	0	7	11	3	9	11	5	5	6	3	14	8	8	12	8	0	0	4	0	1	0	3	0
October	5.6	S.	30	NW.	0	7	9	5	5	11	4	10	7	4	20	7	4	8	5	0	0	7	0	0	1	0	0
November	6.8	S.	26	SW.	0	3	9	1	10	11	6	8	10	2	9	14	7	5	3	0	0	6	0	0	6	0	0
December	7.0	S.	34	S.	0	8	10	2	6	12	10	5	7	2	9	10	12	10	9	1	0	8	1	0	13	0	0
Year	6.1	S.	38	W.	0	72	100	31	73	120	92	104	115	23	118	164	83	139	106	7	1	35	11	23	53	66	0

CHEBOYGAN, MICH.

[H = 591 ft.; h_t = 45 ft.; h_r = 38 ft.; h_a = 55 ft.]

January	8.8	SW.	36	NW.	0	4	4	2	11	9	15	4	13	0	2	13	16	16	7	16	0	0	31	0	31	0	0
February	9.8	SW.	40	SW.	1	2	5	4	10	8	19	4	4	0	8	11	9	11	3	10	0	0	23	0	28	0	0
March	11.1	NW.	37	SW.	0	4	9	5	8	9	10	7	10	0	10	10	11	7	4	3	0	0	15	0	28	0	0
April	12.1	NE.	50	NE.	1	6	15	8	6	3	10	4	7	1	3	12	15	12	8	4	0	0	2	0	23	3	0
May	9.3	NW.	37	SW.	0	4	5	4	4	4	9	10	22	0	12	8	11	10	8	0	0	0	0	0	2	1	0
June	7.7	SW.	35	NW.	0	8	8	0	8	8	14	6	8	0	16	7	7	10	8	0	1	0	0	0	0	2	0
July	7.8	NW.	33	NW.	0	4	6	1	6	10	10	6	19	0	13	11	7	14	14	0	0	1	0	0	0	5	0
August	8.1	NW.	25	S.	0	6	1	3	13	8	9	6	16	0	18	9	4	5	4	0	0	1	0	1	0	1	2
September																											
October																											
November																											
December																											
Year																											

CHEYENNE, WYO.

[H = 6,105 ft.; h_t = 58 ft.; h_r = 50 ft.; h_a = 60 ft.]

January	13.0	NW.	54	W.	4	6	0	2	0	1	5	10	34	4	18	12	1	2	1	2	0	0	4	0	24	0	0
February	11.0	NW.	48	NW.	3	6	0	0	0	8	6	4	27	5	11	13	4	6	6	6	0	0	10	0	28	0	0
March	13.0	NW.	48	W.	3	8	1	1	1	7	5	13	23	3	8	19	4	9	6	9	0	1	5	0	28	0	0
April	12.3	W.	50	W.	4	3	4	1	0	5	5	20	14	8	8	16	6	11	6	10	0	0	4	0	21	0	0
May	10.1	NW.	60	W.	4	9	1	5	3	4	6	11	14	9	8	16	7	14	11	3	0	0	0	0	7	1	0
June	8.2	S.	30	S.	0	8	0	3	2	15	3	5	13	11	14	14	2	6	5	0	1	0	0	1	0	1	0
July	8.9	NW.	36	S.	0	1	2	5	9	8	3	5	18	11	10	20	1	5	5	0	0	0	0	1	0	2	0
August	7.3	NW.	36	S.	0	6	4	7	3	10	3	4	17	8	11	17	3	10	8	0	0	0	0	0	0	2	0
September	7.6	NW.	38	NW.	0	1	2	1	4	16	2	3	21	10	22	7	1	1	1	0	0	1	0	0	2	0	0
October	10.8	NW.	44	NW.	2	1	3	1	2	4	9	17	24	1	12	17	2	4	3	3	0	0	0	0	11	0	0
November	11.8	NW.	50	NE.	6	5	2	0	0	2	6	20	22	3	14	12	4	5	2	5	0	0	4	0	22	0	0
December	13.1	NW.	50	W.	3	8	1	1	1	4	4	18	20	5	13	14	4	4	2	4	0	1	5	0	27	0	0
Year	10.6	NW.	60	W.	29	62	20	27	25	84	57	130	247	78	149	177	39	77	56	42	1	3	32	2	170	6	0

CHICAGO, ILL.

[H = 824 ft.; h_t = 241 ft.; h_r = 238 ft.; h_a = 274 ft.]

January	16.8	NW.	49	SW.	4	2	1	0	9	4	14	11	21	0	5	10	16	13	10	10	0	1	28	0	31	0	0
February	20.6	W.	60	SW.	6	2	4	2	12	5	11	9	11	0	7	8	13	14	8	9	0	1	17	0	27	0	0
March	19.9	NE.	56	SW.	10	2	14	4	10	3	13	6	10	0	5	11	15	15	10	4	1	3	8	0	22	0	0
April	23.9	NE.	72	NE.	14	2	14	3	15	2	13	8	3	0	5	10	15	16	14	2	0	1	1	0	4	5	0
May	18.8	NE.	50	S.	8	1	27	4	7	5	5	9	4	0	8	18	5	10	5	0	1	1	0	0	0	2	0
June	14.5	NE.	50	NE.	3	5	15	4	8	11	7	5	5	0	12	12	6	9	8	0	1	4	0	0	0	4	0
July	14.1	NE.	40	S.	1	2	17	4	7	5	14	5	8	0	17	13	1	6	5	0	0	0	0	0	6	5	1
August	15.2	NE.	50	NE.	3	7	15	5	13	7	7	3	5	0	18	10	3	2	1	0	0	0	0	1	0	0	2
September	18.9	SE.	60	SE.	5	5	10	6	11	5	8	9	6	0	13	10	7	9	7	0	0	2	0	2	0	1	0
October	18.8	S.	60	SW.	7	1	5	2	11	14	13	4	12	0	17	7	7	7	6	0	0	3	0	0	3	1	0
November	17.6	SW.	51	SW.	7	2	0	1	13	9	11	11	13	0	13	7	10	7	5	4	0	6	6	0	18	0	0
December	22.0	SW.	53	SW.	11	4	1	1	2	9	19	15	11	0	10	8	13	14	8	3	0	4	16	0	26	0	0
Year	18.4	SW.	72	NE.	79	35	122	36	118	79	135	95	109	0	130	124	111	122	88	37	3	26	76	9	131	18	3

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

CINCINNATI, OHIO.

[λ = 39° 6′ N.; φ = 84° 30′ W.; gravity corr., −0.02.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.34	29.72	28.64	18.1	23.8	28.1	14.2	21.2	58	−11	15	19	86	80	.096	.114	2.87	1.35	6.8	5.5	6.5
February	29.46	30.20	28.95	30.4	36.0	42.0	26.1	34.0	59	8	26	30	83	80	.149	.175	4.84	1.43	7.8	6.3	6.6
March	29.39	29.87	28.84	37.6	46.6	51.1	33.0	42.0	78	13	31	34	77	64	.191	.215	1.93	.47	4.9	5.9	5.5
April	29.30	29.56	28.55	50.6	56.8	61.8	45.9	53.8	82	33	43	43	76	64	.292	.298	7.10	1.37	6.3	7.2	6.6
May	29.27	29.64	28.96	57.1	64.8	69.9	52.5	61.2	85	42	50	52	78	64	.373	.398	6.40	2.43	5.0	6.1	6.0
June	29.34	29.63	29.05	69.1	76.6	81.7	64.6	73.2	92	56	61	60	77	59	.350	.534	4.45	1.48	3.6	4.3	4.5
July	29.35	29.50	29.13	73.6	82.5	88.5	68.8	78.6	95	63	64	63	73	54	.607	.591	3.79	1.90	3.0	3.1	3.8
August	29.34	29.55	29.00	69.1	79.1	84.5	65.0	74.8	91	56	58	56	70	47	.500	.472	.86	.26	2.9	2.7	3.4
September	29.36	29.66	29.17	63.3	74.1	79.2	60.9	70.0	93	44	54	55	72	55	.436	.461	3.90	1.60	4.3	4.1	4.3
October	29.41	29.80	28.82	50.0	58.9	65.5	47.4	56.4	84	31	45	48	83	69	.311	.362	3.17	1.44	3.6	2.8	4.1
November	29.43	29.88	28.91	37.4	45.3	49.5	35.2	42.4	69	13	29	36	73	69	.172	.220	2.04	.83	4.6	3.7	6.8
December	29.50	30.07	28.94	32.8	38.8	42.9	29.9	36.4	66	16	27	30	77	69	.155	.172	2.65	1.45	6.7	5.7	6.3
Year	29.37	30.20	28.55	49.1	56.9	62.1	45.3	53.7	95	−11	42	44	77	64	.319	.334	44.00	2.43	5.0	4.8	5.4

CLEVELAND, OHIO.

[λ = 41° 30′ N.; φ = 81° 42′ W.; gravity corr., −0.01.]

January	29.14	29.54	28.40	15.7	19.1	23.9	11.4	17.6	52	−6	11	11	80	70	.080	.082	1.81	.49	7.5	7.4	7.9
February	29.29	30.06	28.58	23.1	27.6	33.5	19.1	26.3	52	1	18	23	80	81	.109	.129	3.76	.81	8.1	6.3	7.5
March	29.23	29.73	28.75	32.5	36.6	41.6	27.5	34.6	74	12	26	29	78	73	.152	.165	1.95	1.14	6.9	6.1	6.2
April	29.18	29.51	28.53	44.3	47.8	54.2	37.9	46.0	83	28	38	40	80	74	.238	.252	3.08	.66	7.6	7.3	6.6
May	29.12	29.52	28.67	53.8	57.4	62.0	47.5	54.8	83	40	48	48	80	71	.335	.337	7.41	2.07	5.0	5.1	4.9
June	29.21	29.50	28.86	67.7	72.7	77.0	61.6	69.3	90	51	60	61	77	67	.525	.538	.89	.50	3.5	3.9	3.8
July	29.21	29.43	29.02	70.6	75.1	81.1	64.0	72.6	94	53	60	60	71	62	.531	.534	1.42	.52	3.7	4.4	4.5
August	29.23	29.45	28.95	66.5	71.7	76.8	61.3	69.0	91	48	56	56	71	60	.461	.463	3.15	1.91	4.2	4.3	4.5
September	29.24	29.51	29.01	59.9	64.7	70.8	55.8	63.3	90	38	52	52	75	65	.399	.411	.53	.28	5.1	4.2	5.1
October	29.26	29.70	28.42	48.7	54.9	61.4	45.4	53.4	85	28	42	45	77	70	.273	.311	5.07	2.44	5.1	3.8	5.0
November	29.25	29.78	28.67	35.3	39.8	45.6	32.2	38.9	65	14	28	32	75	74	.156	.189	1.85	.46	6.0	4.7	6.1
December	29.30	29.95	28.71	29.1	32.2	37.3	24.5	30.9	63	9	24	26	82	79	.138	.152	2.96	.70	8.9	7.6	7.7
Year	29.22	30.06	28.40	45.6	50.0	55.4	40.7	48.1	94	−6	39	40	77	70	.283	.297	33.88	2.44	6.0	5.4	5.8

COLORADO SPRINGS, COLO.

[λ = 38° 50′ N.; φ = 104° 49′ W.; gravity corr., −0.01.]

January	23.98	24.33	23.45	23.2	36.4	47.5	22.3	34.9	66	6	10	13	48	40	.083	.085	.01	.01	2.2	1.9	3.2
February	23.92	24.35	23.47	21.4	32.8	40.1	17.7	28.9	59	−3	10	12	63	42	.077	.081	.08	.02	3.8	4.1	5.3
March	23.89	24.33	23.45	26.6	42.5	49.9	23.0	36.4	75	6	13	15	58	36	.086	.093	.03	.02	3.5	5.1	4.9
April	23.90	24.16	23.44	33.6	50.1	55.0	30.4	42.7	72	6	18	15	54	31	.108	.088	.54	.33	3.2	5.3	4.8
May	23.96	24.35	23.52	43.5	59.5	64.4	38.8	51.6	82	25	30	27	63	35	.167	.153	1.34	.90	3.5	5.3	5.3
June	24.02	24.30	23.74	54.9	74.2	79.3	48.9	64.1	93	34	38	33	56	26	.231	.196	.40	.20	1.8	5.4	3.7
July	24.10	24.34	23.82	59.2	74.3	81.6	55.3	68.4	93	47	44	44	60	40	.297	.302	2.51	.86	3.4	5.9	5.0
August	24.12	24.28	23.97	56.0	68.8	75.5	52.7	64.1	86	42	46	48	71	51	.315	.341	3.06	.80	3.5	6.1	5.0
September	24.03	24.37	23.52	50.3	66.6	73.9	46.4	60.0	84	35	30	32	49	32	.175	.190	.21	.16	2.0	2.9	2.2
October	24.04	24.33	23.71	38.2	53.5	62.7	34.0	48.4	76	14	25	26	59	38	.136	.143	.24	.14	3.3	2.5	3.2
November	23.99	24.31	23.60	29.7	38.4	49.3	22.6	36.0	67	2	14	14	54	39	.081	.082	.14	.08	3.0	2.9	3.2
December	24.01	24.33	23.70	29.2	35.3	46.3	21.5	33.9	58	2	13	14	52	43	.077	.080	.03	.03	3.8	2.2	3.9
Year	24.00	24.37	23.44	39.3	52.7	60.5	34.4	47.4	93	−3	24	24	57	38	.153	.153	8.59	.90	3.1	4.1	4.1

COLUMBIA, MO.

[λ = 38° 58′ N.; φ = 92° 14′ W.; gravity —corr., 0.02.]

January	(a)	29.52	28.89	.....	22.8	34.7	10.7	22.7	60	−5	....	16	....	73	.....	.095	0.39	.12	.....	3.1	4.8
February	(a)	30.03	28.79	.....	29.0	40.2	16.5	28.4	58	−6	....	20	....	68	.....	.116	1.97	.46	.....	4.5	5.2
March	(a)	29.74	28.54	.....	43.2	54.0	29.8	41.9	84	8	....	37	....	77	.....	.241	2.82	1.43	.....	3.9	4.9
April	(a)	29.31	28.29	.....	56.2	66.3	44.1	55.2	89	26	....	45	....	69	.....	.322	11.30	2.39	.....	5.8	5.4
May	(a)	29.48	28.62	.....	64.6	74.1	51.2	62.6	89	34	....	53	....	68	.....	.415	6.00	2.22	.....	3.9	4.1
June	(a)	29.36	28.87	.....	74.9	84.1	61.8	73.0	93	49	....	68	....	70	.....	.688	6.83	2.02	.....	4.6	4.1
July	(a)	29.29	28.97	.....	79.2	88.8	65.6	77.2	94	60	....	72	....	70	.....	.784	6.63	1.55	.....	2.5	3.1
August	(a)	29.33	28.98	.....	73.1	87.4	59.7	73.6	96	44	....	65	....	77	.....	.633	.94	.70	.....	2.4	2.8
September	(a)	29.46	28.76	.....	71.3	87.0	56.4	71.7	104	33	....	58	....	66	.....	.510	3.45	1.33	.....	3.8	2.9
October	(a)	29.56	28.71	.....	58.1	74.1	44.4	59.2	93	29	....	46	....	65	.....	.333	.59	.38	.....	1.5	1.8
November	(a)	29.49	28.82	.....	41.6	55.4	29.5	42.4	76	6	....	30	....	65	.....	.181	1.16	.58	.....	3.1	3.9
December	(a)	29.79	28.84	.....	36.0	46.6	24.5	35.6	70	2	....	29	....	74	.....	.177	.55	.19	.....	3.5	4.9
Year	.....	30.03	28.29	.....	54.2	66.1	41.2	53.6	104	−6	....	45	....	72	.....	.375	42.63	2.39	.....	3.6	4.0

a But one observation daily at 8 p. m., seventy-fifth meridian time.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

CINCINNATI, OHIO.

[H = 628 ft.; h_t = 153 ft.; h_r = 145 ft.; h_a = 157 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles		Mi.																								
January	8.5	NW.	28	NW.	0	2	4	8	16	3	10	3	15	1	10	6	15	18	12	14	0	1	20	0	28	1	0
February	9.7	NW.	38	W.	0	2	8	5	12	2	6	4	17	0	6	7	15	16	13	5	0	0	5	0	21	1	0
March	9.5	SW.	35	W.	0	6	3	3	15	8	7	5	15	0	9	11	11	12	8	4	0	0	2	0	15	2	0
April	9.5	SE.	34	S.	0	5	6	9	12	4	13	5	6	0	7	7	16	19	15	2	0	0	0	0	0	8	0
May	8.1	NW.	36	SW.	0	3	7	4	15	6	6	10	11	0	6	15	10	15	10	0	2	0	0	0	0	5	0
June	6.6	SE.	40	NW.	1	4	10	8	14	6	9	2	7	0	14	13	3	11	10	0	0	0	0	1	0	9	0
July	6.3	SW.	40	W.	1	2	12	7	9	2	18	7	5	0	15	14	2	9	8	0	1	0	0	14	0	6	0
August	6.1	NE.	25	NW.	0	5	18	9	10	5	1	2	12	0	18	10	3	6	4	0	0	0	0	4	0	2	0
September	6.8	SE.	30	NW.	0	1	12	4	14	7	7	3	10	2	15	10	5	9	8	0	0	0	0	5	0	3	0
October	6.3	SE.	36	W.	0	3	4	12	18	2	7	4	9	3	17	8	6	10	6	0	0	5	0	0	2	1	0
November	7.9	SE.	26	S.	0	2	5	6	13	5	10	8	10	1	3	16	11	6	5	0	0	7	2	0	8	0	0
December	9.4	NW.	36	W.	0	1	5	2	12	11	10	8	13	0	9	7	15	10	7	4	0	1	6	0	21	0	0
Year	7.9	SE.	40	W.	2	36	94	77	160	61	104	61	130	7	129	124	112	141	106	29	3	14	35	24	95	38	0

CLEVELAND, OHIO.

[H = 740 ft.; h_t = 122 ft.; h_r = 109 ft.; h_a = 120 ft.]

January	14.4	NW.	48	NW.	4	0	0	2	14	6	15	10	15	0	2	8	21	20	12	19	0	0	22	0	31	0	0
February	16.9	NW.	60	NW.	7	1	5	1	14	3	7	7	18	0	5	4	19	20	16	13	0	0	12	0	25	0	0
March	15.7	NW.	48	SW.	5	1	8	5	13	7	7	6	15	0	8	11	12	12	9	6	0	1	7	0	21	0	0
April	16.7	NE.	50	SE.	8	1	13	4	13	3	10	7	9	0	3	12	15	16	15	2	0	0	0	0	3	3	0
May	13.2	NW.	60	SW.	3	4	10	3	11	6	6	4	17	1	15	5	11	14	11	0	0	0	0	1	0	5	0
June	11.8	SE.	42	W.	1	0	5	6	13	8	6	12	10	0	14	13	3	6	4	0	0	0	0	0	3	0	0
July	11.1	SE.	50	NW.	3	4	10	3	18	5	12	3	8	0	12	14	5	12	6	0	0	0	0	3	0	6	0
August	10.8	SE.	37	NW.	0	3	16	3	19	3	3	4	11	0	14	14	3	10	8	0	0	0	0	1	0	2	0
September	14.5	SE.	48	NW.	4	3	6	5	23	6	6	3	8	0	8	15	7	7	5	0	1	0	0	0	0	1	0
October	13.6	SE.	52	NW.	4	3	4	3	28	3	10	6	4	1	14	4	13	11	7	1	0	1	0	0	2	0	0
November	15.8	SE.	44	NW.	5	0	2	2	25	6	19	1	5	0	7	9	14	12	9	4	0	1	4	0	12	0	0
December	17.0	SE.	44	NW.	6	3	2	1	17	14	13	3	9	0	2	9	20	19	15	12	0	0	11	0	25	0	0
Year	14.3	SE.	60	SW. NW.	50	23	81	38	208	70	113	66	129	2	104	118	143	159	117	57	1	3	56	5	119	20	0

COLORADO SPRINGS, COLO.

[H = 6,098 ft.; h_t = 49 ft.; h_r = 42 ft.; h_a = 56 ft.]

January	11.2	N.	58	SW.	8	29	10	3	4	1	4	6	5	0	19	10	2	1	0	1	0	0	3	0	27	0	0
February	11.9	N.	54	W.	7	20	7	2	11	4	1	6	5	0	8	11	9	5	0	5	0	0	6	0	26	0	0
March	12.6	N.	57	NW.	10	24	5	5	2	6	4	3	13	0	11	15	7	2	0	2	0	0	2	0	27	1	0
April	13.0	N.	58	SW.	8	22	2	4	7	7	5	2	11	0	12	10	8	6	4	6	0	0	2	0	18	0	0
May	11.7	N.	55	NW.	6	20	5	7	7	8	5	2	8	0	11	10	10	7	5	4	0	1	0	0	6	3	0
June	9.8	N.	60	NW.	1	28	3	3	8	8	3	3	4	0	14	13	3	7	4	0	1	0	0	1	0	4	0
July	8.7	N.	39	NW.	0	25	4	1	11	7	6	4	4	0	9	14	8	13	8	0	2	0	0	1	0	14	0
August	7.6	N.	38	NW.	0	24	5	4	9	10	0	3	7	0	7	17	7	15	11	0	1	0	0	0	0	12	0
September	9.0	N.	46	N.	1	26	3	4	6	15	3	2	1	0	21	7	2	2	2	0	0	0	0	0	0	0	0
October	9.2	N.	55	NW.	3	32	2	1	3	11	4	3	6	0	19	11	1	4	2	2	0	0	0	0	9	0	0
November	11.1	N.	65	NW.	7	24	4	2	9	3	2	6	10	0	19	6	5	4	1	5	0	0	4	0	26	0	0
December	9.2	N.	52	NW.	3	23	9	2	5	7	1	4	11	0	16	9	6	1	0	1	0	1	1	0	30	0	0
Year	10.4	N.	65	NW.	54	297	59	38	82	87	38	44	85	0	166	131	68	67	37	26	4	2	18	2	169	34	0

COLUMBIA, MO.

[H = 789 ft.; h_t = 4 ft.; h_r = 2 ft.; h_a = 41 ft.]

January	8.7	NW.	33	SW.	0	3	2	4	4	1	1	2	14	0	12	12	7	7	4	6	0	2	13	0	31	1	0
February	9.2	NW.	32	NW.	0	0	2	3	5	2	2	4	10	0	10	9	9	6	5	3	0	0	5	0	25	0	0
March	10.2	NW.	36	S.	0	0	2	6	6	3	4	3	7	0	11	15	5	11	7	5	0	0	1	0	20	2	0
April	10.8	SE.	44	E.	2	3	3	5	6	3	2	3	5	0	10	9	11	16	13	0	2	0	0	0	3	14	0
May	7.7	SE.	40	SE.	1	2	5	0	7	2	4	4	7	0	15	11	5	14	13	0	0	0	0	0	0	5	0
June	5.2	SE.	32	S.	0	1	2	3	11	6	1	0	6	0	13	12	5	13	10	0	0	0	0	0	0	11	0
July	3.9	SE.	27	S.	0	4	2	2	7	6	1	0	3	6	19	7	5	10	9	0	0	0	0	0	0	6	0
August	3.5	NW.	26	SW.	0	3	5	1	4	1	2	1	7	7	19	10	2	4	4	0	0	0	0	0	7	1	0
September	5.9	SE.	30	S.	0	0	4	5	7	4	5	0	5	0	20	6	4	6	6	0	0	0	0	0	12	4	0
October	8.1	SE.	36	S.	0	0	0	0	0	12	5	3	3	7	1	23	7	1	4	3	0	0	0	0	2	5	3	0
November	7.5	NW.	28	SW.	0	0	0	0	2	8	4	3	4	9	0	17	8	7	4	4	0	0	1	0	17	0	0
December	9.8	NW.	32	SW.	0	0	1	0	6	6	3	2	13	0	12	11	8	8	5	2	0	0	4	0	25	0	0
Year	7.5	NW.	44	E.	3	16	28	31	83	43	31	26	93	14	181	115	69	103	83	16	2	2	24	40	126	47	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1898—Continued.

COLUMBIA, S. C.

[λ = 34° 00′ N.; φ = 81° 3′ W.; gravity corr., —.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew Point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January						46.7	29.4	38.0	65	11							1.36	1.02			
February						60.1	41.4	50.8	74	30							4.83	1.18			
March						65.2	43.7	54.4	82	20							1.20	.34			
April						81.1	57.0	69.0	91	40							.47	.41			
May						82.7	59.8	71.2	95	48							3.79	1.38			
June						87.4	67.6	77.5	95	62							8.53	2.60			
July						95.1	71.6	83.4	102	65							2.95	.97			
August						87.8	68.5	78.2	93	60							8.64	4.60			
September						85.2	66.0	75.6	94	53							2.79	1.73			
October						74.1	55.0	64.6	89	33							2.48	1.34			
November						63.0	44.0	53.5	80	25							1.72	.82			
December						60.0	39.8	49.9	74	26							2.91	1.36			
Year						74.0	53.6	63.8	102	11							41.67	4.60			

COLUMBUS, OHIO.

[λ = 39° 58′ N.; φ = 83° 00′ W.; gravity corr., —0.01.]

January	29.05	29.43	28.23	16.2	20.8	24.7	13.0	18.8	52	−12	13	16	87	80	.090	.097	2.25	.72	8.4	7.4	8.4
February	29.18	29.92	28.47	27.6	32.2	37.9	23.8	30.8	53	4	25	26	89	79	.142	.150	7.65	2.05	8.1	7.2	8.2
March	29.11	29.63	28.59	34.9	42.0	48.2	30.8	39.5	76	12	31	30	85	65	.183	.179	1.92	.52	6.5	6.5	7.5
April	29.03	29.32	28.28	47.9	53.6	59.6	43.5	51.6	85	31	41	40	79	63	.270	.256	7.08	1.37	7.8	6.4	7.8
May	29.00	29.41	28.64	55.3	62.1	69.2	49.5	59.4	85	40	49	49	79	64	.357	.359	4.81	2.07	5.9	6.6	7.0
June	29.09	29.37	28.79	67.8	74.3	80.9	61.8	71.4	92	52	60	60	75	63	.517	.527	2.89	1.06	4.7	4.9	5.9
July	29.09	29.27	28.88	71.3	79.7	87.2	65.6	76.4	95	58	61	60	71	52	.552	.523	1.27	.52	3.9	4.4	4.6
August	29.10	29.30	28.72	66.3	74.8	82.5	61.0	71.8	91	51	57	55	74	52	.480	.447	1.65	.74	3.7	3.7	4.1
September	29.12	29.41	28.90	59.8	69.4	77.5	55.9	66.7	94	33	52	50	76	53	.406	.388	1.14	.44	5.0	3.8	4.8
October	29.16	29.57	28.49	48.5	57.9	65.0	45.2	55.1	84	29	42	45	79	64	.277	.318	3.33	1.42	4.1	4.0	4.8
November	29.17	29.63	28.58	35.3	42.1	47.2	32.7	40.0	66	14	30	32	80	68	.169	.192	2.16	1.31	5.5	4.8	5.9
December	29.22	29.78	28.66	30.1	34.9	39.6	26.5	33.0	64	12	27	28	86	77	.152	.164	1.97	.53	8.5	5.7	6.7
Year	29.11	29.92	28.23	46.8	53.6	60.0	42.4	51.2	95	−12	41	41	80	65	.300	.300	38.12	2.07	6.0	5.4	6.3

CONCORDIA, KANS.

[λ = 39° 35′ N.; φ = 97° 41′ W.; gravity corr., — 0.01.]

January	28.57	28.97	27.98	20.2	27.5	37.8	16.1	27.0	60	1	18	17	89	64	.103	.097	.05	.03	3.8	2.2	3.2
February	28.61	29.28	28.07	17.9	29.5	39.0	15.7	27.4	63	−11	13	18	80	61	.087	.106	.34	.16	4.1	2.2	3.4
March	28.51	29.11	27.88	29.8	41.7	49.7	27.9	38.8	88	4	23	25	77	55	.133	.141	.74	.40	4.1	3.5	4.2
April	28.39	28.77	27.74	44.0	59.1	66.6	40.7	53.6	97	25	36	37	72	48	.223	.236	.86	.63	4.5	2.5	3.3
May	28.43	28.74	27.93	52.7	67.6	73.2	48.5	60.8	91	30	44	46	75	50	.298	.325	3.27	1.33	3.6	2.5	4.7
June	28.47	28.78	28.19	67.0	79.7	85.4	62.7	74.0	100	50	59	58	76	51	.512	.506	6.44	2.18	3.2	2.3	3.1
July	28.51	28.75	28.20	71.4	83.6	89.9	67.3	78.6	103	58	64	64	77	53	.589	.600	4.47	1.40	2.6	2.3	3.3
August	28.55	28.80	28.24	68.7	79.4	86.2	60.5	73.4	97	44	59	60	84	52	.501	.533	1.60	.68	2.7	2.0	2.2
September	28.47	28.89	27.94	60.0	75.4	83.7	57.0	70.4	99	36	48	51	68	46	.349	.391	2.08	1.98	2.2	2.2	2.5
October	28.51	28.96	28.13	46.1	59.3	70.9	43.6	57.2	91	26	38	40	75	52	.240	.250	.14	.13	1.7	2.0	1.9
November	28.57	28.92	28.08	30.6	40.8	51.0	27.7	39.4	75	11	25	27	79	58	.138	.151	1.01	.84	2.9	1.3	2.6
December	28.60	29.12	28.20	27.2	36.3	46.4	24.8	35.6	65	4	23	24	82	62	.130	.139	.41	.26	3.1	1.4	3.6
Year	28.52	28.28	27.74	44.2	56.7	65.0	41.0	53.0	103	−11	38	39	78	54	.275	.290	21.50	2.18	3.2	2.2	3.2

CORPUS CHRISTI, TEX.

[λ = 27° 49′ N.; φ = 97° 25′ W.; gravity corr., — 0.04.]

January	30.12	30.41	29.82	50.8	58.4	62.7	48.5	55.6	81	34	45	50	81	75	.324	.377	5.91	2.51	3.4	4.0	5.3
February	30.07	30.58	29.60	55.4	60.5	65.1	51.8	58.4	88	33	51	54	87	81	.396	.436	6.27	5.80	7.1	5.4	6.8
March	30.05	30.52	29.60	58.8	67.0	71.2	56.5	63.8	88	41	53	58	82	75	.430	.507	.12	.05	3.9	3.9	4.8
April	29.90	30.17	29.56	72.4	74.2	77.7	69.9	73.8	92	56	68	68	87	83	.706	.705	.42	.20	7.4	5.3	7.3
May	29.88	30.07	29.65	74.4	77.7	80.1	71.6	75.8	88	57	70	71	86	81	.742	.773	3.22	1.75	6.0	4.3	6.5
June	29.90	30.10	29.61	79.1	82.3	84.8	75.3	80.0	92	70	74	74	86	78	.851	.858	1.27	.68	2.9	3.6	6.2
July	30.00	30.12	29.88	80.6	83.6	86.4	77.2	81.8	95	73	76	76	87	77	.905	.888	.49	.36	1.8	2.3	4.7
August	29.93	30.08	29.81	78.9	83.3	86.9	76.7	81.8	92	69	74	76	86	78	.854	.884	.66	.06	2.5	3.3	4.7
September	29.92	30.11	29.66	77.6	82.4	86.5	75.7	81.1	95	70	74	75	88	79	.835	.876	1.14	.57	2.4	3.6	4.9
October	30.05	30.31	29.87	67.0	75.9	79.1	65.9	72.5	87	53	60	64	80	69	.555	.622	.25	.15	1.4	0.6	2.4
November	30.06	30.51	29.83	58.2	64.4	69.8	56.0	62.9	86	40	55	58	89	80	.460	.503	1.28	.80	4.0	4.2	5.1
December	30.18	30.52	29.73	57.7	63.3	68.3	55.7	62.0	78	36	54	57	88	83	.454	.501	.97	.07	4.3	2.8	5.8
Year	30.00	30.58	29.56	67.6	72.8	76.6	65.1	70.8	95	33	63	65	86	78	.626	.661	20.50	5.80	4.0	3.6	5.4

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

COLUMBIA, S. C.

[H = — ft.; h_t = 73 ft.; h_r = 63 ft.; h_a = — ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Wind. By self-registers. Prevailing direction. (a)	Wind. By self-registers. Maximum velocity.	Wind. By self-registers. Direction at time of maximum velocity.	Wind. By self-registers. Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	Precipitation. 0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Maximum temp. Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Electricity. Aurorus.
	Miles.		*Mi.*																								
January	.....	SW.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*17*	*4*	*10*	*6*	*4*	*2*	*0*	*0*	*3*	*0*	*19*	*0*	*0*
February	.....	NE.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9	7	12	15	13	0	0	0	0	0	3	1	0
March	.....	W.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*12*	*8*	*11*	*10*	*7*	*0*	*1*	*0*	*0*	*0*	*5*	*1*	*0*
April	.....	SW.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9	17	4	4	2	0	0	0	0	3	0	1	0
May	.....	W.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	9	11	10	7	0	1	0	0	6	0	4	0
June	.....	S.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	13	9	14	8	0	2	0	0	9	0	7	0
July	.....	S.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	21	5	11	9	0	0	0	0	26	0	8	0
August	.....	SE.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	9	14	12	10	0	0	0	0	8	0	8	0
September	.....	SE.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	10	9	6	5	0	0	0	0	6	0	1	0
October	.....	NE.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*16*	*9*	*6*	*9*	*5*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
November	.....	N.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	9	8	8	7	0	0	1	0	0	4	0	0
December	.....	W.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14	10	7	8	6	1	1	0	0	0	6	2	0
Year	.....	W.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	133	126	106	113	83	3	5	1	3	58	37	33	0

COLUMBUS, OHIO.

[H = 868 ft.; h_t = 126 ft.; h_r = 120 ft.; h_a = 132 ft.]

January	8.7	SW.	28	S.	*0*	*1*	*6*	*1*	*13*	*8*	*16*	*15*	*2*	0	0	9	22	17	11	14	0	0	21	0	29	1	0
February	13.2	NW.	56	NW.	3	9	3	3	6	6	4	9	16	0	0	6	22	21	18	10	0	0	8	0	21	0	0
March	12.1	NW.	54	W.	2	5	5	8	7	4	6	10	17	0	4	10	17	16	9	5	0	0	3	0	16	0	0
April	13.4	E.	51	W.	5	3	6	9	6	7	9	10	10	0	3	6	21	20	17	2	0	0	0	0	2	5	0
May	9.8	NW.	46	W.	1	7	5	8	2	12	3	9	16	0	2	16	13	15	7	0	0	0	0	0	0	3	0
June	8.4	E.	36	NW.	0	7	7	11	6	10	6	5	7	1	7	11	12	15	13	0	0	0	0	1	0	13	0
July	8.5	W.	59	NW.	2	8	9	9	6	6	8	10	5	1	12	17	2	11	7	0	0	0	0	9	0	7	0
August	7.5	E.	36	SW.	0	8	13	13	*9*	4	4	2	*6*	3	*14*	*14*	3	*9*	*6*	0	0	0	0	2	0	3	0
September	9.0	NW.	31	SE.	0	7	2	12	5	9	5	6	11	3	13	10	7	10	7	0	0	0	0	2	0	2	0
October	9.1	SE.	48	W.	2	5	*4*	4	13	13	5	6	10	2	13	9	9	9	7	0	0	0	0	0	2	2	0
November	10.9	NW.	45	W.	2	5	6	4	10	8	8	9	10	0	8	12	10	10	5	1	0	3	4	0	11	0	0
December	12.5	SW.	45	NW.	2	4	1	3	6	12	17	5	14	0	3	13	15	17	11	9	0	0	10	0	23	0	0
Year	10.3	NW.	59	NW.	19	69	67	85	89	99	91	96	124	10	79	133	153	170	118	41	0	3	46	14	104	36	0

CONCORDIA, KANS.

[H = 1,410 ft.; h_t = 42 ft.; h_r = 34 ft.; h_a = 47 ft.]

January	7.5	N.	32	N.	0	*16*	3	7	5	*11*	5	7	7	1	18	11	2	3	0	3	0	1	10	0	29	0	0
February	9.5	S.	35	N.	0	14	2	2	4	15	4	7	7	1	18	5	5	7	2	5	0	0	8	0	26	0	0
March	9.9	S.	40	S.	1	10	4	11	3	12	3	4	12	3	17	5	9	7	4	3	0	3	5	0	17	1	0
April	11.4	NW.	48	S.	1	10	5	2	10	4	6	7	14	2	20	5	5	6	5	0	1	0	0	1	6	2	0
May	9.1	SE.	44	S.	2	10	9	5	11	7	3	11	6	0	12	11	8	10	7	0	1	1	0	2	1	3	0
June	8.8	S.	44	NW.	2	9	0	4	9	25	1	0	5	1	17	10	3	8	7	0	2	0	0	9	0	8	0
July	8.2	S.	58	NW.	1	4	5	15	11	21	2	3	1	0	18	10	3	8	7	0	0	0	0	15	0	9	0
August	5.4	S.	24	S.	0	9	5	11	10	14	*6*	1	3	3	24	*4*	3	7	5	0	0	0	0	*12*	0	6	0
September	7.7	S.	29	S.	0	7	6	5	11	20	7	3	1	0	21	3	6	4	2	0	0	0	0	10	0	1	0
October	8.4	S.	30	S.	0	11	0	3	5	18	11	3	8	3	24	6	1	3	2	0	0	0	0	1	4	1	0
November	7.6	S.	32	S.	0	12	2	1	2	18	12	8	4	1	20	8	2	3	2	1	0	1	4	0	20	0	0
December	7.5	SW.	29	S.	0	6	4	3	4	10	16	12	7	0	17	11	3	3	2	2	0	1	4	0	25	0	0
Year	8.4	S.	58	NW.	7	118	51	69	85	175	76	66	75	15	226	89	50	69	45	14	4	8	51	50	128	31	0

CORPUS CHRISTI, TEX.

[H = 20 ft.; h_t = 42 ft.; h_r = 34 ft.; h_a = 50 ft.]

January	9.8	NE.	30	NW.	*0*	*14*	*16*	*8*	*5*	*5*	*4*	*3*	*6*	*1*	*13*	*6*	*12*	*6*	*6*	0	0	*2*	0	0	*0*	0	0
February	11.8	N.	40	N.	1	19	6	5	15	0	1	2	8	0	5	6	17	12	7	0	0	1	0	0	0	1	0
March	12.4	SE.	42	N.	2	19	3	8	27	2	0	1	2	0	15	5	11	5	1	0	0	3	0	0	0	0	0
April	17.6	SE.	36	SE.	0	8	4	5	43	3	0	0	2	0	2	10	18	3	3	0	0	0	0	1	0	0	0
May	14.6	SE.	36	SE.	0	15	0	6	41	0	0	0	0	0	5	12	14	9	7	0	0	0	0	0	0	1	0
June	13.2	SE.	36	SE.	0	8	3	7	28	1	1	0	2	0	1	24	5	7	5	0	0	1	0	0	1	1	0
July	12.8	SE.	27	SE.	0	0	0	2	53	1	4	1	0	1	6	23	2	4	3	0	0	0	0	1	0	1	0
August	11.2	SE.	36	N.	0	4	0	3	42	2	4	1	5	1	12	12	7	1	1	0	0	0	0	2	0	1	0
September	12.4	SE.	31	SE.	0	8	4	6	35	1	2	1	2	1	10	13	7	8	6	0	0	0	0	5	0	0	0
October	10.0	SE.	36	N.	0	11	7	11	18	1	3	1	8	2	22	8	1	2	2	0	0	0	0	0	0	0	0
November	10.7	SE.	34	NW.	0	9	1	6	20	4	0	6	12	2	13	5	12	9	6	0	0	3	0	0	0	1	0
December	10.1	SE.	36	NW.	0	9	5	4	27	4	1	0	10	2	8	10	13	1	1	0	0	6	0	0	0	0	0
Year	12.2	SE.	42	N.	3	119	49	71	364	24	20	16	57	10	112	134	119	67	48	0	1	15	0	10	0	6	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

DAVENPORT, IOWA.

[λ = 41° 30′ N.; φ = 90° 38′ W.; gravity corr., −0.01.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.39	29.70	28.89	6.0	11.4	16.6	1.6	9.1	39	−15	1	7	78	80	.049	.064	1.14	.30	6.2	4.8	6.2
February	29.43	30.20	28.77	13.5	21.2	25.2	9.5	17.4	42	−14	9	15	80	75	.072	.096	1.69	.46	5.4	5.6	6.2
March	29.33	29.85	28.46	29.2	36.9	41.6	26.9	34.2	74	6	24	26	78	66	.137	.154	2.25	.90	7.1	5.9	6.8
April	29.20	29.58	28.13	42.0	49.3	55.2	39.0	47.1	86	27	34	36	75	62	.208	.218	4.50	2.21	6.3	7.1	7.4
May	29.23	29.59	28.72	52.8	62.2	67.0	48.2	57.6	83	37	43	46	70	57	.283	.312	2.67	.84	5.3	5.5	5.6
June	29.29	29.59	28.89	67.7	75.4	81.0	62.9	72.0	93	51	60	62	78	66	.531	.576	3.82	1.11	4.2	5.7	5.1
July	29.30	29.53	29.02	71.3	82.2	87.3	66.4	76.8	94	59	62	63	74	53	.570	.585	1.75	1.28	4.5	2.5	3.8
August	29.36	29.63	29.16	64.3	76.5	83.9	60.4	72.2	94	46	54	53	70	46	.421	.418	1.12	.78	3.7	3.3	4.0
September	29.36	29.69	28.97	58.2	69.3	77.8	55.0	66.4	96	37	48	50	70	54	.351	.384	3.36	1.84	4.0	3.6	4.5
October	29.34	29.85	28.70	47.0	57.2	64.3	45.1	54.7	82	24	40	42	78	60	.271	.292	.80	.45	4.9	3.2	4.6
November	29.39	29.76	28.74	30.5	37.8	44.5	27.9	36.2	71	4	24	24	77	58	.138	.143	2.56	.98	3.6	3.7	5.0
December	29.44	30.12	28.92	22.5	26.3	31.8	16.8	24.3	59	−8	18	21	82	79	.116	.130	1.67	.48	6.4	6.7	6.8
Year	29.34	30.20	28.13	42.1	50.5	56.4	38.3	47.3	96	−15	35	37	76	63	.262	.281	27.33	2.21	5.1	4.8	5.5

DENVER, COLO.

[λ = 39° 45′ N.; φ = 105° 0′ W.; gravity corr., −0.01.]

January	24.69	25.07	24.12	31.5	41.5	50.3	26.3	38.3	64	13	9	16	41	37	.066	.092	.05	.04	3.1	2.8	3.0
February	24.65	25.06	24.21	23.5	35.0	42.5	20.2	31.4	60	−2	11	17	58	49	.070	.092	.83	.46	4.2	3.3	4.4
March	24.63	25.04	24.24	29.7	43.1	49.6	26.5	38.0	80	13	16	22	56	47	.087	.121	.23	.16	4.2	3.5	4.4
April	24.63	24.89	24.18	35.6	51.8	57.3	32.9	45.1	77	13	19	20	52	33	.103	.107	.87	.41	3.9	4.6	4.5
May	24.68	25.10	24.15	45.0	61.5	67.1	41.5	54.3	87	28	20	32	57	40	.164	.189	3.09	1.41	3.9	4.1	4.6
June	24.73	25.01	24.46	57.2	78.2	83.4	53.7	68.6	94	38	35	39	46	29	.206	.245	.13	.08	1.9	4.2	3.7
July	24.81	25.07	24.51	62.5	81.2	87.9	58.9	73.4	96	54	46	47	56	33	.313	.331	1.14	.44	2.5	4.2	4.4
August	24.83	25.02	24.68	59.4	76.7	83.3	56.7	70.0	92	50	44	46	58	37	.292	.320	.35	.24	3.1	3.9	4.1
September	24.74	25.11	24.27	50.5	74.5	78.7	48.0	63.4	89	35	28	32	45	24	.162	.187	.05	.03	1.3	1.8	2.3
October	24.77	25.09	24.44	41.4	59.2	65.8	37.1	51.4	81	23	22	22	48	27	.120	.121	.84	.51	2.8	2.8	4.1
November	24.74	25.06	24.37	31.7	43.5	51.7	26.4	39.0	71	8	12	19	43	42	.072	.104	.55	.16	3.1	3.5	4.1
December	24.75	25.09	24.43	32.6	42.0	49.2	27.1	38.2	65	8	12	18	44	42	.078	.101	.35	.12	4.3	3.2	4.5
Year	24.72	25.11	24.12	41.7	57.4	69.3	37.9	50.9	96	−2	24	28	50	37	.144	.168	8.48	1.41	3.2	3.5	4.0

DES MOINES, IOWA.

[λ = 41° 35′ N.; φ = 93° 37′ W.; gravity corr., −0.01.]

January	29.12	29.48	28.64	6.7	12.8	18.8	1.7	10.2	42	−14	3	7	83	76	.051	.063	.56	.17	5.8	4.6	5.3
February	29.17	29.93	28.47	12.3	21.1	26.9	8.0	17.4	45	−16	9	15	85	75	.074	.091	1.28	.58	4.2	4.9	5.5
March	29.07	29.70	28.36	27.6	36.2	42.4	24.4	33.4	74	1	23	28	82	72	.132	.161	1.15	.49	6.1	6.3	5.6
April	28.94	29.32	28.28	41.0	49.7	54.5	37.4	46.0	80	22	34	36	78	63	.208	.225	5.61	1.91	5.3	7.1	6.5
May	28.99	29.32	28.55	51.9	62.5	66.9	46.9	56.9	83	33	45	47	79	59	.309	.328	2.84	.96	4.3	6.5	5.9
June	29.03	29.30	28.74	66.7	76.7	81.0	61.7	71.4	90	47	61	62	81	62	.536	.561	4.69	1.81	4.9	4.9	4.9
July	29.07	29.30	28.78	69.5	81.7	86.8	64.2	75.5	95	56	62	62	77	53	.552	.565	3.55	1.15	3.1	4.7	3.7
August	29.10	29.36	28.88	62.1	75.3	81.7	58.4	70.0	94	42	55	57	79	55	.449	.484	1.60	.67	3.1	3.6	3.8
September	29.04	29.41	28.61	56.3	71.2	79.2	53.2	66.2	95	33	48	48	74	45	.359	.359	1.33	1.13	3.1	3.0	3.6
October	29.05	29.62	28.53	46.2	56.7	66.5	43.2	54.8	86	22	38	38	72	51	.241	.248	.22	.12	4.4	2.8	3.5
November	29.12	29.47	28.45	28.4	37.9	45.6	26.0	35.8	72	1	23	22	78	54	.128	.126	1.51	.80	3.9	3.6	4.1
December	29.15	29.78	28.57	19.9	26.0	31.8	14.1	23.0	59	−8	17	20	86	78	.107	.125	1.30	.64	5.4	5.0	6.1
Year	29.07	29.93	28.28	40.7	50.6	56.8	36.6	46.7	95	−16	35	37	80	62	.262	.278	25.64	1.91	4.5	4.8	4.9

DETROIT, MICH.

[λ = 42° 20′ N.; φ = 83° 03′ W.; gravity corr., −0.01.]

January	29.14	29.56	28.41	13.6	18.0	21.5	9.2	15.4	46	−10	10	14	84	82	.074	.086	1.77	.51	8.5	7.7	7.7
February	29.31	30.06	28.53	20.4	23.9	28.6	15.4	22.0	42	−6	17	19	85	80	.101	.109	4.05	.89	7.1	5.8	6.2
March	29.24	29.75	28.70	30.3	34.3	40.2	25.4	32.8	66	9	25	29	80	80	.144	.168	1.36	.75	5.9	6.1	5.6
April	29.17	29.56	28.52	41.5	46.2	52.2	36.2	44.2	76	26	36	39	83	76	.222	.246	3.61	.58	7.5	6.6	6.8
May	29.12	29.52	28.50	52.5	57.9	63.9	48.3	55.1	85	37	46	45	79	65	.315	.309	1.50	.28	4.3	5.1	5.7
June	29.21	29.52	28.85	67.6	72.0	78.6	61.0	69.8	89	51	59	59	75	64	.508	.503	4.66	2.36	4.2	3.8	3.8
July	29.21	29.46	28.99	70.2	74.2	82.0	63.5	72.8	93	55	59	59	70	60	.515	.510	2.50	.87	3.4	4.4	4.3
August	29.24	29.47	29.04	65.8	71.4	79.3	60.6	70.0	92	52	56	54	72	57	.463	.436	1.78	.82	2.6	2.9	3.3
September	29.24	29.55	28.99	50.2	63.0	70.9	52.3	61.6	87	34	49	49	77	62	.370	.365	1.37	.61	4.2	4.4	4.7
October	29.25	29.69	28.31	47.6	52.7	59.9	45.2	52.6	81	26	42	42	83	70	.289	.287	4.77	2.58	5.1	3.5	4.7
November	29.24	29.77	28.60	35.2	39.4	43.6	33.1	38.4	62	16	28	31	75	72	.162	.185	3.68	1.73	7.5	6.0	6.3
December	29.28	29.97	28.68	25.6	29.4	33.7	21.7	27.7	60	6	21	25	83	81	.124	.142	3.13	.92	8.4	6.9	7.6
Year	29.22	30.06	28.31	43.9	48.5	54.5	39.2	46.9	93	−10	37	39	79	71	.274	.279	34.18	2.58	5.7	5.3	5.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

DAVENPORT, IOWA.

[H = 613 ft.; h_t = 100 ft.; h_r = 93 ft.; h_a = 110 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.(a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	10.5	W.	38	NW.	0	2	2	7	2	1	6	28	13	1	7	10	14	14	11	12	0	0	28	0	31	0	0
February	13.0	W.	44	SW.	2	1	3	9	7	5	2	27	2	0	8	7	13	11	7	7	0	0	19	0	27	0	0
March	12.7	W.	44	NE.	2	4	8	12	4	4	7	15	7	1	6	9	16	12	9	6	0	0	7	0	21	1	0
April	16.1	E.	50	SW.	8	1	3	18	5	3	5	15	9	1	4	11	15	12	11	3	0	0	0	0	8	4	0
May	10.5	NE.	42	SW.	1	2	16	7	8	0	10	8	11	0	8	12	11	12	10	0	2	0	0	0	0	3	0
June	7.6	E.	36	SW.	0	1	8	14	6	7	11	3	10	0	10	11	9	12	11	0	0	0	0	0	2	9	0
July	7.1	SW.	38	W.	0	2	6	8	3	10	14	8	10	1	15	14	2	4	4	0	0	0	0	0	7	5	0
August	5.9	NW.	28	NW.	0	7	8	9	4	8	9	4	11	2	13	13	5	4	3	0	0	0	0	0	5	1	0
September	8.5	SW.	35	SW.	0	2	9	12	4	5	16	7	5	0	13	9	8	8	7	0	0	0	0	0	3	1	0
October	10.0	S.	48	W.	1	2	3	6	12	13	9	12	5	0	13	11	7	7	3	0	0	0	0	0	3	4	0
November	9.5	SW.	37	SW.	0	2	2	12	4	6	14	12	7	1	11	11	8	7	7	3	0	3	5	0	19	1	0
December	11.3	W.	52	SW.	1	1	2	6	2	11	13	19	8	0	4	13	14	15	8	8	0	0	14	0	26	1	0
Year	10.2	W.	52	SW.	15	27	70	120	61	73	116	158	98	7	112	131	122	118	91	39	2	3	73	20	135	30	0

DENVER, COLO.

[H = 5,287 ft.; h_t = 108 ft.; h_r = 97 ft.; h_a = 120 ft.]

January	10.0	S.	48	NW.	3	2	8	5	5	12	7	8	15	0	18	13	0	2	1	1	0	0	1	0	21	0	0
February	8.4	S.	40	NW.	1	5	10	7	4	11	7	4	8	0	12	12	4	8	7	8	0	0	5	0	26	0	0
March	8.4	NW.	48	NW.	2	5	10	5	2	11	7	4	18	0	9	21	1	4	2	4	0	0	1	0	27	0	0
April	10.0	NW.	36	NE.	0	6	8	3	6	6	11	4	16	0	13	12	5	5	5	5	1	0	2	0	15	1	0
May	8.7	SW.	56	NW.	3	4	10	4	6	9	10	5	13	1	13	10	8	9	6	2	0	0	0	0	4	2	0
June	7.3	S.	45	NW.	1	3	8	6	11	9	14	2	6	1	16	10	4	2	2	0	1	0	0	11	0	6	0
July	6.7	S.	36	SE.	0	5	5	2	12	18	8	2	9	1	8	21	2	8	5	0	0	0	0	10	0	9	0
August	7.0	S.	30	SW.	0	7	5	0	8	12	12	2	15	1	14	15	2	6	2	0	0	1	0	3	0	4	0
September	6.4	S.	30	NE.	0	7	11	5	4	17	5	4	6	1	26	2	2	2	0	0	0	1	0	0	0	0	0
October	7.2	S.	36	NE.	0	5	7	6	4	20	4	8	8	0	14	15	2	4	2	3	0	0	0	0	8	0	0
November	8.0	S.	37	NW.	0	3	9	1	2	18	13	7	7	0	13	13	4	6	6	6	0	0	4	0	20	0	0
December	8.7	S.	48	NW.	2	7	8	0	3	11	11	11	11	0	13	13	5	7	4	7	0	0	2	0	23	0	0
Year	8.1	S.	56	NW.	12	59	99	44	67	154	109	61	132	5	169	157	39	63	42	36	2	2	15	24	144	22	0

DES MOINES, IOWA.

[H = 869 ft.; h_t = 84 ft.; h_r = 75 ft.; h_a = 88 ft.]

January	8.3	NW.	37	NW.	0	5	8	3	2	4	4	11	23	2	12	8	11	10	5	10	0	0	26	0	31	0	1
February	9.4	NW.	34	S.	0	1	5	10	7	4	3	7	19	0	9	13	6	10	7	8	0	0	15	0	28	1	0
March	10.4	NW.	38	SW.	0	4	8	13	6	9	7	8	15	1	7	16	8	7	6	2	0	0	7	0	22	0	0
April	12.2	NW.	41	SE.	1	6	9	8	11	1	6	5	14	0	6	11	13	12	10	2	1	1	0	0	9	4	0
May	9.3	NW.	35	SW.	0	12	10	11	6	3	3	7	9	1	5	18	8	13	11	0	1	0	0	0	0	5	0
June	6.6	SE.	33	S.	0	4	7	4	16	8	6	1	8	6	12	7	11	13	10	0	0	0	0	0	0	10	0
July	6.7	SW.	32	SE.	0	8	9	4	5	6	17	5	4	4	16	13	2	10	7	0	0	0	0	8	0	12	1
August	5.9	N.	63	SW.	1	10	2	9	8	9	9	2	7	6	15	15	1	8	5	0	1	0	0	2	0	7	2
September	7.3	SW.	35	SW.	0	2	3	10	10	4	11	4	9	7	20	7	3	4	2	0	0	0	0	6	0	2	0
October	8.9	NW.	36	SW.	0	6	3	5	7	12	4	6	14	5	18	13	0	5	2	0	0	0	0	0	7	4	0
November	7.7	NW.	34	SW.	0	5	0	5	9	9	4	7	15	6	15	11	4	4	4	2	0	0	6	0	20	0	0
December	8.6	NW.	30	W.	0	4	1	10	2	7	6	15	17	0	9	9	13	12	8	7	0	3	15	0	28	1	0
Year	8.4	NW.	63	SW.	2	67	65	92	89	67	80	78	154	38	144	141	80	108	77	31	3	4	69	16	145	46	4

DETROIT, MICH.

[H = 724 ft.; h_t = 158 ft.; h_r = 144 ft.; h_a = 161 ft.]

January	11.3	SW.	48	SW.	1	0	7	3	2	3	29	10	8	0	3	8	20	18	9	16	0	0	28	0	31	1	0
February	13.2	SW.	43	SW.	3	3	9	2	8	3	15	9	7	0	8	8	12	17	14	11	0	2	16	0	28	0	0
March	12.6	SW.	48	SW.	1	1	17	5	9	1	18	5	6	0	11	9	11	14	6	5	0	1	6	0	22	0	0
April	15.3	SW.	72	NE.	9	1	18	2	7	3	16	9	4	0	5	9	16	17	13	3	2	0	0	0	5	5	0
May	10.9	SW.	74	SW.	1	1	17	2	3	6	17	7	8	1	10	11	10	11	9	0	0	1	0	0	0	2	0
June	9.6	SW.	36	SW.	0	1	19	5	4	3	17	7	4	0	13	13	4	10	8	0	0	0	0	0	0	5	0
July	9.6	SW.	54	NW.	1	7	14	6	4	8	13	6	4	0	16	11	4	10	8	0	1	0	0	2	0	6	1
August	8.4	NE.	28	SW.	0	4	13	10	11	2	13	3	5	1	16	13	2	6	6	0	0	1	0	1	0	3	2
September	10.4	NW.	37	W.	0	2	8	8	8	1	12	7	14	0	11	11	8	11	7	0	0	1	0	0	0	2	0
October	11.3	SW.	48	NW.	2	1	1	8	14	4	14	11	8	1	14	6	11	10	8	0	0	6	0	0	2	0	0
November	12.6	SW.	37	SW.	0	0	3	3	9	3	19	16	7	0	9	7	14	10	7	5	0	3	4	0	14	0	0
December	14.0	SW.	45	W.	2	1	7	3	3	2	27	9	10	0	3	9	19	20	13	13	0	2	16	0	27	0	0
Year	11.6	SW.	74	SW.	20	22	133	57	82	39	210	99	85	3	119	115	131	154	108	54	3	17	70	3	129	24	3

a By eye observations at 8 a. m. and 8 p. m., when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

DODGE CITY, KANS.

[λ = 37° 45′ N.; φ = 100° 0′ W.; gravity corr., −0.02.]

Month.	Pressure.			Temperature.							Moisture.										Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.						
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.			8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*					
January	27.39	27.74	26.86	24.5	33.9	46.6	21.4	34.0	72	2	18	20	77	56	.101	.109	.02	.02			2.8	3.2	3.8
February	27.40	28.00	26.81	21.1	34.4	43.8	18.3	31.0	61	−7	16	21	80	57	.097	.117	.34	.15			5.2	3.9	4.6
March	27.33	27.85	26.76	27.7	47.8	58.0	26.4	42.2	89	2	19	20	69	35	.108	.114	T.	T.			3.4	3.6	3.9
April	27.26	27.58	26.80	43.1	60.9	68.2	38.8	53.5	93	28	27	23	54	29	.154	.133	.04	.03			3.5	3.7	3.9
May	27.29	27.61	26.84	52.3	69.0	73.8	47.0	60.4	96	24	41	38	68	39	.269	.242	1.31	.84			4.3	4.2	4.1
June	27.32	27.65	27.00	66.8	82.9	89.3	60.6	75.0	106	45	57	52	72	37	.474	.402	.76	.48			3.4	4.1	3.2
July	27.37	27.60	27.09	71.1	85.6	93.1	65.8	79.4	103	57	60	57	71	41	.528	.475	3.32	2.05			3.7	4.1	3.0
August	27.41	27.64	27.15	64.6	78.1	85.8	61.9	73.8	98	50	58	57	81	51	.500	.488	1.82	.86			4.0	4.3	3.9
September	27.34	27.70	26.88	60.0	74.9	84.0	56.9	70.4	98	40	48	47	67	42	.354	.336	1.74	1.70			2.8	2.1	2.8
October	27.39	27.78	27.03	42.9	58.8	72.1	41.4	56.8	91	31	32	32	67	38	.187	.190	.25	.25			1.4	1.6	1.9
November	27.41	27.75	26.94	30.1	42.0	53.4	27.4	40.4	80	11	20	21	64	46	.108	.122	.42	.34			3.7	2.7	3.7
December	27.45	27.83	26.98	28.5	39.8	51.5	25.6	38.6	74	9	22	25	74	55	.121	.142	.10	.06			4.4	3.2	4.0
Year	27.36	28.00	26.76	44.4	59.0	68.3	41.0	54.6	106	−7	35	34	70	44	.250	.239	10.12	2.05			3.6	3.4	3.6

DUBUQUE, IOWA.

[λ = 42° 30′ N.; φ = 90° 44′ W.; gravity corr., −0.01.]

January	29.31	29.68	28.83	2.6	9.9	14.5	−1.3	6.6	32	−23	−2	4	78	76	.040	.055	1.60	.44			5.1	4.6	5.7
February	29.39	30.16	28.70	10.8	19.3	23.6	6.4	15.0	40	−21	6	14	78	77	.065	.092	1.30	.61			4.2	5.4	5.1
March	29.30	29.84	28.49	26.1	35.6	39.8	24.2	32.0	65	5	22	29	82	78	.125	.173	2.52	1.09			4.4	5.4	6.0
April	29.17	29.56	28.23	40.0	47.5	53.1	37.3	45.2	80	26	34	41	80	78	.204	.268	4.32	1.56			6.3	7.4	7.6
May	29.20	29.59	28.72	51.3	61.3	66.4	47.2	56.8	82	34	45	51	79	71	.305	.380	3.06	.56			5.4	5.4	6.0
June	29.26	29.52	28.93	68.1	75.6	80.7	62.9	71.8	92	52	61	64	78	69	.542	.603	5.49	2.81			3.6	4.6	5.1
July	29.28	29.53	29.01	70.7	81.6	87.0	65.7	76.3	96	56	62	68	76	64	.569	.691	3.57	.95			3.4	3.2	3.5
August	29.31	29.57	29.10	63.5	75.5	82.4	59.4	70.9	95	44	54	61	72	62	.427	.536	.58	.46			3.3	3.0	3.1
September	29.28	29.68	28.94	55.1	68.3	75.8	52.0	63.9	94	32	47	50	75	54	.341	.383	3.31	1.92			3.6	3.6	3.8
October	29.27	29.79	28.53	45.2	55.4	63.0	43.4	53.2	82	22	40	40	84	70	.266	.323	1.66	.56			5.2	3.0	5.3
November	29.32	29.70	28.69	28.9	35.2	43.1	26.0	34.6	72	−1	24	27	79	77	.136	.166	2.03	.48			4.3	3.7	5.0
December	29.37	30.08	28.82	19.1	23.1	29.6	14.7	22.2	58	−11	13	17	76	76	.088	.108	1.33	.57			5.7	6.4	6.2
Year	29.29	30.16	28.23	40.1	49.0	54.9	36.5	45.7	96	−23	34	39	78	71	.250	.315	30.77	2.84			4.5	4.6	5.2

DULUTH, MINN.

[λ = 46° 48′ N.; φ = 92° 6′ W.; gravity corr., 0.]

January	29.26	29.72	28.59	.2	7.2	11.7	−2.2	4.8	37	−22	−1	−4	71	57	.033	.038	1.06	.28			6.5	4.2	5.9
February	29.34	30.12	28.64	3.9	11.9	16.5	−0.1	8.2	36	−28	−4	0	67	57	.042	.047	1.64	.64			5.2	4.4	5.3
March	29.30	29.90	28.59	16.4	27.5	31.2	14.4	22.8	51	−6	10	16	72	60	.075	.095	2.28	.73			4.8	4.0	5.0
April	29.20	29.62	28.28	30.8	34.8	38.3	28.6	33.4	54	18	26	27	80	73	.137	.145	3.64	1.74			6.8	5.8	7.1
May	29.23	29.66	28.74	43.9	50.4	54.4	39.7	47.0	73	32	35	35	71	57	.206	.203	2.31	1.17			4.9	4.2	5.5
June	29.19	29.41	28.90	56.9	63.7	68.3	52.5	60.4	92	42	49	52	75	68	.355	.391	1.59	.91			2.7	3.3	3.9
July	29.20	29.52	28.85	63.0	70.8	75.7	56.9	66.3	93	48	56	55	77	60	.446	.432	3.76	1.18			3.2	3.4	3.7
August	29.25	29.57	28.92	60.7	67.9	72.1	57.3	64.7	91	49	52	52	74	58	.398	.392	1.51	.82			3.4	3.7	3.5
September	29.24	29.71	28.81	52.5	58.2	63.7	49.1	56.4	85	30	45	45	76	64	.317	.323	1.04	.82			4.1	3.6	4.1
October	29.20	29.75	28.70	41.6	46.5	50.9	38.9	44.9	70	18	36	38	78	75	.214	.240	1.84	.97			6.1	3.8	5.3
November	29.22	29.74	28.64	25.7	30.1	33.8	23.4	28.6	61	−7	19	22	76	71	.116	.131	0.76	.46			4.8	5.2	6.5
December	29.31	30.04	28.51	8.3	13.5	18.9	3.6	11.2	43	−19	4	9	82	80	.058	.071	1.91	.58			6.1	6.1	6.4
Year	29.24	30.12	28.28	33.7	40.2	44.6	30.2	37.4	93	−28	27	29	75	65	.200	.209	23.34	1.74			4.9	4.3	5.2

EAST CLALLAM, WASH.

[λ = 48° 14′ N.; φ = 124° 13′ W.; gravity corr., −]

January						42.1	32.8	37.4	53	6							5.90	1.45					
February (a)						40.7	28.0	34.4	57	9							14.60	2.70					
March						47.8	33.8	40.8	54	28							12.47	1.96					
April						49.7	36.7	43.2	57	30							11.16	2.65					
May (b)						57.7	43.5	50.6	74	38							3.53	.67					
June						60.3	45.7	53.0	82	39							5.93	1.26					
July						62.9	48.5	55.7	73	41							.24	.07					
August (c)						67.2	47.4	57.3	91	42							.19	.18					
September																							
October						53.5	40.9	47.2	65	28							8.27	2.75					
November (b)						45.5	35.7	40.6	56	26							d14.85	2.32					
December (b)						48.3	38.7	43.5	55	31							e11.59	1.98					
Year																							

a For 21 days. b For 23 days. c For 19 days. d For 30 days. e For 31 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

DODGE CITY, KANS.

[H = 2,523 ft.; h_t = 44 ft.; h_r = 37 ft.; h_a = 55 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.(a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	9.8	NW.	59	NW.	2	11	9	5	11	3	1	9	13	0	18	9	4	1	0	1	0	3	4	0	27	0	0
February	12.2	NE.	42	SE.	2	9	10	1	8	11	6	3	8	0	9	13	6	5	3	4	1	0	5	0	26	0	0
March	13.2	SE.	48	SW.	2	5	14	1	15	7	3	3	14	0	16	12	3	0	0	0	0	0	1	0	20	0	0
April	15.3	NE.	58	SW.	5	11	11	2	14	5	2	1	13	1	15	12	3	2	0	0	0	0	0	1	6	0	0
May	14.2	NE.	50	SE.	6	7	15	5	14	8	0	5	8	0	17	7	7	9	6	0	0	0	0	2	2	5	0
June	15.1	SE.	48	NW.	4	8	8	2	29	6	2	0	4	1	19	9	2	7	5	0	0	0	0	14	0	3	0
July	13.9	SE.	54	NW.	6	1	12	8	27	10	0	0	3	1	19	12	0	14	8	0	0	0	0	22	0	11	0
August	10.8	SE.	42	SE.	1	5	8	7	33	4	3	0	2	0	14	16	1	9	7	0	0	1	0	9	0	10	0
September	12.1	SE.	41	SE.	1	0	9	6	24	11	3	2	4	1	21	4	5	5	2	0	0	1	0	11	0	1	0
October	11.2	SE.	46	NW.	2	7	6	5	13	8	5	7	10	1	27	4	0	1	1	0	0	0	0	1	2	0	0
November	11.3	SE.	54	SE.	3	11	6	0	16	6	2	6	13	0	20	5	5	4	3	3	0	1	3	0	22	0	0
December	11.0	NW.	52	SW.	1	7	4	0	11	9	6	7	18	0	13	15	3	2	2	0	0	0	2	0	25	0	0
Year	12.5	SE.	58	SW.	35	82	112	42	215	88	33	43	110	5	208	118	39	59	37	8	1	6	15	60	130	30	0

DUBUQUE, IOWA.

[H = 651 ft.; h_t = 60 ft.; h_r = 50 ft; h_a = 60 ft.]

January	5.4	NW.	26	NW.	0	8	1	1	10	4	3	11	24	0	8	11	12	11	10	10	0	0	30	0	31	0	0
February	6.9	W.	25	W.	0	1	3	5	11	7	1	16	12	0	11	7	10	7	6	5	0	0	22	0	28	0	0
March	6.6	SE.	26	E.	0	5	5	6	16	6	5	10	8	1	9	10	12	9	7	4	0	2	6	0	22	0	0
April	9.3	W.	36	SW.	0	3	3	11	11	3	3	16	9	1	2	10	18	16	13	2	0	0	6	0	8	3	0
May	6.5	W.	31	W.	0	3	6	10	10	3	3	14	13	0	8	10	13	14	12	0	1	0	0	0	0	3	0
June	4.5	SE.	25	W.	0	2	4	7	21	5	9	6	6	0	9	12	9	6	6	0	0	0	0	2	0	4	0
July	4.6	NW.	36	NW.	0	6	3	2	6	10	11	6	17	1	19	10	2	10	7	0	0	0	0	8	0	7	0
August	4.1	NW.	24	NW.	0	2	1	6	14	9	7	3	16	4	16	13	2	3	2	0	0	1	0	3	0	1	2
September	4.9	SE.	30	SW.	0	4	6	6	15	6	4	3	14	2	16	7	7	5	5	0	0	0	0	3	0	2	0
October	5.9	NW.	26	NW.	0	1	2	4	14	12	3	7	17	2	10	8	13	8	6	0	0	2	0	0	4	2	0
November	5.7	NW.	24	NW.	0	0	1	1	14	9	5	10	18	2	12	8	10	8	6	4	0	2	8	0	19	0	0
December	6.1	NW.	30	NW.	0	2	0	2	12	12	3	12	18	1	9	7	15	12	7	7	0	1	16	0	29	1	0
Year	5.9	NW.	36	SW. NW.	0	37	35	61	154	86	57	114	172	14	129	113	123	109	87	32	1	8	82	16	141	23	2

DULUTH, MINN.

[H = 656 ft.; h_t = 70 ft.; h_r = 56 ft.; h_a = 71 ft.]

January	6.6	NW.	34	E.	0	10	3	3	5	3	6	7	23	2	8	11	12	13	10	13	0	0	29	0	31	0	0
February	6.7	W.	35	NW.	0	6	6	4	2	0	7	15	9	7	11	11	6	15	5	15	0	0	26	0	28	0	2
March	8.1	NE.	34	NE.	0	10	15	9	1	1	5	10	5	6	16	4	11	8	6	7	0	0	18	0	27	0	0
April	9.6	NE.	34	NE.	0	5	27	10	1	1	1	3	8	4	5	9	16	13	10	11	0	1	3	0	24	1	0
May	5.4	NE.	30	W.	0	6	23	14	0	0	0	9	6	4	12	8	11	11	10	0	0	1	0	0	0	1	0
June	5.7	E.	24	W.	0	0	11	19	0	0	0	10	12	8	19	7	4	9	6	0	1	5	0	1	0	5	0
July	5.7	NW.	20	NW.	0	5	10	10	1	0	2	12	19	3	17	10	4	10	8	0	0	2	0	1	0	8	2
August	6.6	E.	23	SW.	0	7	14	13	2	0	2	7	14	3	20	7	4	6	6	0	0	0	0	2	0	3	1
September	7.1	E.	26	N.	0	7	13	13	2	0	5	2	16	2	16	11	3	5	4	0	0	1	0	0	1	2	0
October	5.0	NE.	23	NE.	0	5	16	4	2	2	2	13	10	8	10	12	9	10	7	0	0	0	0	0	4	1	0
November	5.1	NW.	30	NW.	0	5	3	6	3	2	4	13	15	9	8	6	16	4	3	4	0	2	14	0	20	0	0
December	6.8	N.	36	NW.	0	13	3	3	5	2	8	12	13	3	6	11	14	12	10	12	0	0	27	0	31	0	0
Year	6.6	NW.	36	NW.	0	79	144	108	24	11	42	113	150	59	148	107	110	116	85	62	1	12	117	4	166	21	5

EAST CLALLAM, WASH.

[H = — ft.; h_t = — ft.; h_r = 1 ft.; h_a = — ft.]

January	.....	SE.	....	.....	....	....	....	....	....	....	....	....	....	....	3	5	23	18	12	5	0	0	6	0	11	0	0
February (a)	.....	S.	....	.....	....	....	....	....	....	....	....	....	....	....	3	0	21	22	17	7	0	0	4	0	14	0	0
March	.....	SE.	....	.....	....	....	....	....	....	....	....	....	....	....	1	3	27	20	18	0	0	0	0	0	10	0	0
April	.....	W.	....	.....	....	....	....	....	....	....	....	....	....	....	0	2	28	22	20	0	1	0	0	0	3	1	0
May (b)	.....	W.	....	.....	....	....	....	....	....	....	....	....	....	....	5	3	23	23	18	0	0	0	0	0	0	0	0
June	.....	W.	....	.....	....	....	....	....	....	....	....	....	....	....	6	5	19	17	15	0	1	0	0	0	0	0	0
July	.....	W.	....	.....	....	....	....	....	....	....	....	....	....	....	15	2	14	6	3	0	0	2	0	0	0	0	0
August (c)	.....	W.	....	.....	....	....	....	....	....	....	....	....	....	....	13	2	4	2	1	0	0	3	0	1	0	0	0
September	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
October	.....	SE.	....	.....	....	....	....	....	....	....	....	....	....	....	9	5	17	12	10	0	0	2	0	0	1	0	0
November (b)	.....	SE.	....	.....	....	....	....	....	....	....	....	....	....	....	4	4	21	18	17	1	0	0	0	0	7	0	0
December (b)	.....	SE.	....	.....	....	....	....	....	....	....	....	....	....	....	1	2	26	24	21	3	1	1	0	0	2	0	0
Year	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

EASTPORT, ME.

[λ = 44° 54′ N.; φ = 66° 59′ W.; gravity corr., 0.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.76	30.50	28.95	13.4	17.0	21.8	9.4	15.6	50	—6	5	8	67	64	.067	.072	2.08	.73	6.1	4.6	6.4
February	29.88	30.56	28.85	16.2	21.1	26.2	12.1	19.2	47	—7	8	11	68	63	.073	.079	3.26	.74	4.8	3.4	5.9
March	29.88	30.56	29.22	26.5	29.1	34.0	22.8	28.4	51	6	18	20	70	66	.109	.113	1.35	.74	4.7	3.0	6.0
April	29.92	30.60	29.22	35.3	36.6	42.7	30.8	36.8	56	15	25	27	67	70	.141	.151	1.94	.42	5.4	4.3	6.4
May	29.79	30.17	29.30	47.3	46.9	54.9	41.3	48.1	72	36	39	40	74	78	.237	.247	1.91	.70	5.3	4.0	6.9
June	29.93	30.21	29.67	54.6	54.2	64.5	47.4	56.0	83	42	49	49	83	84	.350	.346	1.85	1.00	4.1	4.0	6.1
July	29.75	29.95	29.34	60.8	60.6	70.8	52.3	61.6	87	47	53	54	78	79	.411	.414	2.61	.75	4.3	3.9	6.3
August	29.83	30.15	29.37	61.5	59.9	70.3	54.3	62.3	90	51	55	54	80	83	.438	.427	4.04	2.51	4.8	2.5	6.3
September	29.86	30.26	29.49	52.4	52.5	60.4	47.4	53.9	73	41	46	47	79	84	.314	.327	1.93	.78	5.0	5.5	6.5
October	29.98	30.51	29.39	47.9	49.3	55.0	44.7	49.8	65	32	42	44	80	82	.271	.296	1.83	.56	4.4	3.2	6.4
November	29.94	30.49	29.17	36.5	37.8	43.2	32.3	37.8	60	12	28	30	70	74	.166	.181	.99	.49	5.3	3.6	5.7
December	29.92	30.62	29.28	21.8	24.6	29.6	15.1	22.4	52	—11	15	17	72	73	.097	.117	6.08	1.85	7.7	6.2	7.5
Year	29.87	30.62	28.83	39.5	40.8	47.8	34.2	41.0	90	—11	32	33	74	75	.223	.231	29.87	2.51	5.2	4.0	6.4

EL PASO, TEX.

[λ = 31° 47′ N.; φ = 106° 30′ W.; gravity corr., —0.03.]

January	26.25	26.55	25.98	35.3	54.7	60.5	32.2	46.4	73	18	15	10	45	18	.086	.072	.02	.02	1.5	2.8	2.3
February	26.20	26.50	25.83	41.1	56.1	60.9	38.3	49.6	74	25	21	17	49	27	.118	.103	.52	.41	3.4	4.2	4.5
March	26.19	26.52	25.88	43.3	64.1	67.6	41.5	54.6	86	28	18	8	38	14	.102	.072	.31	.30	2.8	2.7	2.8
April	26.11	26.32	25.90	53.7	77.2	79.8	52.4	66.1	91	39	8	—8	15	4	.061	.034	0	0	1.6	2.5	2.1
May	26.11	26.38	25.92	59.5	81.6	84.3	57.3	70.8	93	43	26	6	34	12	.165	.093	2.28	1.65	1.9	2.1	2.1
June	26.12	26.32	25.87	70.2	93.7	97.1	68.6	82.8	104	61	35	24	30	10	.225	.148	T.	T.	0.9	2.2	1.5
July	26.19	26.34	26.01	70.9	86.8	92.7	69.5	81.1	102	65	54	48	57	30	.425	.343	2.08	1.02	5.1	6.5	5.3
August	26.19	26.40	26.05	69.0	83.5	88.0	67.8	77.9	97	59	58	54	70	49	.492	.431	3.15	1.73	4.7	5.9	4.6
September	26.18	26.37	25.93	63.1	81.4	86.4	62.1	74.2	94	53	46	43	59	31	.340	.305	2.08	1.03	3.9	3.2	3.7
October	26.26	26.46	26.02	49.0	70.8	78.0	47.8	62.9	87	36	32	29	54	22	.186	.158	T.	T.	1.0	1.3	1.5
November	26.25	26.54	26.01	39.3	58.1	65.4	37.1	51.2	80	25	21	18	48	22	.109	.098	.02	.02	1.5	1.0	1.6
December	26.32	26.60	26.03	37.1	54.6	61.8	34.4	48.1	74	20	18	16	46	25	.108	.104	.42	.34	1.5	2.1	2.8
Year	26.20	26.60	25.83	52.6	71.9	76.9	50.8	63.8	104	18	29	22	45	21	.201	.163	10.88	1.73	2.5	3.0	2.9

ERIE, PA.

[λ = 42° 7′ N.; φ = 80° 5′ W.; gravity corr., —0.01.]

January	29.15	29.57	28.30	16.3	19.0	23.5	12.0	17.8	51	—5	13	15	87	82	.086	.090	2.40	.34	9.2	7.9	8.0
February	29.31	30.04	28.56	22.1	25.1	32.2	16.8	24.5	50	—2	18	21	84	84	.109	.121	5.85	1.14	8.6	6.6	7.2
March	29.25	29.74	28.80	30.9	33.0	41.0	25.1	33.0	70	11	26	26	82	76	.150	.144	1.89	.39	7.1	5.4	6.1
April	29.21	29.56	28.64	42.5	43.5	52.8	35.6	44.2	76	25	35	35	76	74	.208	.208	3.67	.70	7.5	6.2	6.7
May	29.12	29.55	28.56	53.9	55.3	61.8	46.1	54.0	85	38	45	46	73	73	.302	.318	7.99	4.71	6.1	6.4	6.0
June	29.23	29.52	28.86	67.6	69.6	75.3	61.3	68.3	89	51	59	60	75	72	.505	.521	3.20	1.40	4.7	5.7	5.6
July	29.22	29.45	29.02	70.8	72.2	78.5	63.2	70.8	90	53	59	59	67	64	.511	.507	1.79	.71	4.9	5.6	5.1
August	29.25	29.49	28.92	68.0	70.2	75.6	60.9	68.2	88	50	56	56	67	63	.459	.461	3.61	2.41	5.3	4.2	4.9
September	29.26	29.52	29.04	60.1	62.3	68.3	55.0	61.6	86	42	51	52	72	69	.388	.401	1.13	.51	6.5	3.5	5.7
October	29.28	29.72	28.29	50.9	54.2	61.9	46.1	54.0	84	30	41	44	70	70	.267	.296	3.84	1.82	5.5	4.0	5.1
November	29.26	29.83	28.71	38.2	40.1	47.0	33.9	40.4	65	19	29	31	68	71	.159	.178	1.97	.47	6.7	6.8	6.2
December	29.30	29.96	28.70	29.9	32.5	37.3	25.4	31.4	62	14	24	26	79	77	.140	.150	2.65	.54	9.3	7.9	8.4
Year	29.24	30.04	28.29	45.9	48.1	54.6	40.1	47.4	90	—5	38	39	75	73	.274	.283	39.99	4.71	6.8	5.8	6.2

ESCANABA, MICH.

[λ = 45° 48′ N.; φ = 87° 5′ W.; gravity corr., — —.]

January						15.5	.5	8.0	31	—15							1.90	.40			
February						21.2	—1.2	10.0	36	—21							2.94	.49			
March						30.9	9.6	20.3	43	—10							2.06	.71			
April						42.0	26.9	34.4	50	16							2.98	1.38			
May						55.9	37.7	46.8	77	30							3.26	1.04			
June						72.0	52.0	62.0	83	40							1.23	.95			
July						77.1	55.8	66.4	87	44							2.83	.65			
August						73.5	51.6	62.6	81	37							1.54	.58			
September						64.8	43.8	54.3	75	24							1.08	.20			
October						53.5	38.1	45.8	63	19							2.68	.89			
November						40.1	25.6	32.8	57	5							1.40	.53			
December						26.0	9.2	17.6	38	—5							2.28	.44			
Year						47.7	29.1	38.4	87	—21							26.26	1.38			

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

EASTPORT, ME.

[H = 76 ft.; h_t = 69 ft.; h_r = 63 ft.; h_a = 74 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	13.0	NW.	48	SE.	2	6	5	0	6	2	4	12	25	2	6	15	10	14	10	11	0	0	25	0	30	0	2
February	13.1	NW.	50	NE.	3	8	3	4	1	3	9	9	19	0	8	10	10	14	13	12	0	0	19	0	28	0	4
March	11.4	NW.	31	E.	0	6	10	3	5	3	13	8	13	1	9	9	13	10	6	5	0	0	12	0	27	1	0
April	11.3	NW.	41	E.	1	7	7	3	4	10	8	6	13	2	7	11	12	17	11	7	1	0	3	0	16	0	4
May	6.8	S.	54	NE.	3	5	7	4	3	10	15	6	9	3	3	14	14	12	10	0	0	5	0	0	0	1	1
June	6.5	SW.	36	E.	0	5	16	5	0	9	22	1	1	1	7	12	11	8	5	0	0	14	0	0	0	1	0
July	6.7	SW.	29	E.	0	6	3	1	1	2	31	11	6	1	4	19	8	11	8	0	0	8	0	0	0	5	1
August	7.1	SW.	46	NE.	1	9	7	3	0	4	17	12	4	6	7	13	11	14	9	0	0	8	0	0	0	1	1
September	9.0	SW.	36	SE.	0	5	6	1	2	4	17	15	10	0	6	13	11	16	11	0	0	0	0	0	0	0	3
October	10.9	SW.	42	SE.	2	12	4	3	2	5	18	8	10	0	7	11	13	9	6	0	0	0	0	0	0	1	1
November	11.4	SW.	52	SE.	2	11	4	0	3	2	17	9	14	0	9	14	7	8	3	0	0	0	3	0	14	0	4
December	13.2	NW.	45	NE.	3	6	8	0	6	0	9	16	17	0	1	13	17	20	18	14	0	1	17	0	26	0	0
Year	10.2	SW.	54	NE.	17	86	80	27	33	54	180	113	141	16	74	154	137	153	110	49	1	36	79	0	141	10	21

EL PASO, TEX.

[H = 3,796 ft.; h_t = 69 ft.; h_r = 62 ft.; h_a = 80 ft.]

January	7.8	NW.	34	NW.	0	2	13	8	2	0	0	10	22	5	20	9	2	1	0	0	0	0	0	0	17	0	0
February	12.2	NW.	56	NW.	4	4	5	10	0	1	1	14	19	2	11	9	8	4	2	3	0	0	1	0	6	0	0
March	12.9	W.	48	NW.	5	2	4	10	0	0	1	22	23	0	19	10	2	2	1	0	0	0	0	0	3	0	0
April	13.6	W.	50	NW.	5	0	2	5	0	0	3	21	29	0	23	4	3	0	0	0	0	0	1	0	0	0	0
May	10.8	W.	48	NW.	4	2	1	12	3	0	1	23	17	3	23	6	2	3	3	0	0	0	0	0	2	0	0
June	7.6	E.	37	NE.	0	3	1	21	11	0	3	6	13	2	25	5	0	0	0	0	0	0	27	0	2	0	0
July	8.2	E.	39	NW.	0	2	6	15	10	2	2	9	13	3	7	16	8	8	5	0	0	0	23	0	10	0	0
August	7.2	NW.	34	NW.	0	6	7	17	9	0	0	2	21	0	12	14	5	11	8	0	0	0	15	0	10	0	0
September	7.2	SE.	38	SE.	0	0	1	9	17	2	2	16	11	2	16	7	7	8	6	0	0	0	12	0	4	0	0
October	7.1	E.	42	NW.	1	7	5	23	0	1	0	6	11	9	25	5	1	0	0	0	0	0	0	0	0	0	0
November	9.2	NW.	45	N.	2	0	7	9	7	0	1	12	22	2	25	5	0	1	0	0	0	0	0	0	6	0	0
December	8.6	NW.	41	NE.	2	7	4	9	5	2	2	5	24	4	21	8	2	3	2	0	0	1	0	0	12	0	0
Year	9.4	NW.	56	NW.	23	35	56	148	64	8	16	146	225	32	227	98	40	41	27	3	0	1	1	87	44	28	0

ERIE, PA.

[H = 714 ft.; h_t = 92 ft.; h_r = 82 ft.; h_a = 102 ft.]

January	12.0	SW.	48	SW.	1	1	3	3	4	17	19	8	7	0	2	8	21	22	16	20	0	0	23	0	31	0	0
February	13.2	W.	45	SE.	4	1	4	5	4	7	9	21	5	0	3	9	16	22	17	19	0	0	15	0	27	0	0
March	12.8	W.	48	SE.	2	2	13	0	8	7	10	16	6	0	7	12	12	18	13	7	0	0	7	0	25	0	0
April	14.5	NE.	59	SE.	4	1	14	5	7	4	13	11	5	0	4	14	12	18	16	2	0	0	0	0	5	2	1
May	9.9	W.	36	W.	0	2	7	4	3	13	3	23	7	0	7	11	13	14	11	0	0	0	0	0	0	3	0
June	8.9	W.	31	W.	0	3	8	2	8	11	10	13	5	0	7	14	9	14	9	0	2	0	0	0	0	5	0
July	8.6	SW.	30	S.	0	2	8	1	2	11	15	12	11	0	8	16	7	11	9	0	0	0	0	0	0	6	0
August	8.4	NE.	36	NW.	0	4	14	4	4	12	10	4	10	0	8	18	5	8	8	0	0	0	0	0	0	6	0
September	12.1	SW.	36	NW.	0	1	7	3	9	10	16	5	9	0	5	16	9	7	6	0	0	0	0	0	0	3	0
October	13.0	S.	42	SW.	1	1	5	4	13	19	7	6	7	0	12	7	12	10	9	2	0	0	0	0	2	0	0
November	14.9	SW.	40	SE.	1	0	2	4	7	16	19	7	5	0	6	13	11	15	14	7	0	0	2	0	10	1	0
December	15.0	SW.	36	S.	0	3	2	0	3	13	23	7	11	0	0	9	22	23	18	15	0	0	10	0	23	0	0
Year	11.9	SW.	59	SE.	13	21	87	35	72	140	154	133	88	0	69	147	149	182	146	72	2	0	57	0	123	26	1

ESCANABA, MICH.

[H = — ft.; h_t = 15 ft.; h_r = 2 ft.; h_a = — ft.]

January		NW.													7	8	16	17	13	17	0	0	31	0	31	0	0
February		SW.													9	8	11	14	12	12	0	1	24	0	28	0	0
March		S.													15	3	13	7	6	5	0	0	14	0	29	2	0
April		N.													6	8	16	12	11	4	0	0	1	0	25	2	0
May		N.													12	10	9	11	10	0	0	0	0	0	2	3	0
June		SW.													13	14	3	6	4	0	0	0	0	0	0	0	0
July		SW.													13	14	4	15	14	0	0	0	0	0	0	8	0
August		SW.													16	11	4	9	9	0	0	0	0	0	0	2	0
September		SW.													14	4	12	10	10	0	0	0	0	0	7	0	0
October		NW.													8	6	17	12	9	0	0	0	0	0	9	0	0
November		NW.													11	2	17	7	6	4	0	0	7	0	20	0	0
December		NW.													2	3	26	17	15	15	0	0	23	0	31	0	0
Year		SW.													126	91	148	137	119	57	0	1	100	0	182	17	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

EUREKA, CAL.

[λ = 40° 48′ N.; ϕ = 124° 11′ W.; gravity corr., − 0.01.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.				Extremes.			Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.			
January	30.03	30.30	29.19	41.4	47.6	50.3	39.1	44.7	59	33	40	44	97	89	.254	.293	3.65	.98	3.7	4.4	6.5
February	30.10	30.40	29.64	41.0	48.8	51.2	39.1	45.2	57	29	40	43	95	81	.245	.280	6.27	1.57	5.2	7.1	6.5
March	29.90	30.38	29.39	44.5	50.7	53.7	42.0	47.8	65	33	42	44	93	79	.272	.293	10.59	2.06	6.8	7.5	7.2
April	30.08	30.35	29.40	45.0	50.6	53.1	42.4	47.8	63	33	44	44	96	79	.288	.291	7.16	1.18	6.8	6.7	6.8
May	30.03	30.36	29.81	48.4	53.8	56.3	46.6	51.4	69	41	47	48	96	82	.326	.337	2.43	.68	5.9	4.4	5.8
June	30.04	30.22	29.67	50.0	56.4	58.5	48.9	53.7	69	43	49	50	96	78	.343	.359	.33	.22	5.3	3.0	4.6
July	29.99	30.14	29.85	52.6	57.8	60.0	51.8	55.9	64	47	52	52	97	83	.382	.390	.00	.00	4.8	2.1	5.1
August	29.92	30.05	29.81	51.9	56.5	59.7	50.7	55.2	64	47	51	54	98	90	.379	.410	.00	.00	2.3	1.6	5.6
September	29.92	30.13	29.72	52.6	58.7	61.5	50.4	56.0	69	40	51	54	94	85	.375	.418	2.39	.81	6.3	5.2	5.7
October	30.05	30.27	29.65	47.7	53.2	57.3	45.5	51.4	68	38	47	50	98	90	.326	.365	4.33	2.12	3.9	4.7	6.0
November	30.07	30.29	29.69	47.2	52.6	57.0	44.8	50.9	66	34	46	50	96	91	.310	.364	9.87	3.70	5.7	5.6	5.9
December	30.14	30.42	29.69	43.4	49.4	53.3	41.5	47.4	61	34	43	47	97	91	.277	.322	6.69	2.46	5.4	4.8	6.1
Year	30.02	30.42	29.19	47.1	53.0	56.0	45.2	50.6	69	29	46	48	96	85	.315	.344	53.71	3.70	5.2	4.8	6.0

FORT SMITH, ARK.

[λ = 35° 22′ N.; ϕ = 94° 21′ W.; gravity corr., − 0.03.]

January	29.59	30.07	29.10	27.7	41.2	48.9	24.4	36.6	70	6	23	28	82	61	.130	.164	1.09	1.01	3.9	2.5	3.3
February	29.63	30.31	29.11	36.0	43.5	51.4	29.0	40.2	66	13	30	30	78	61	.172	.170	3.11	.78	5.8	4.6	4.7
March	29.55	30.10	29.00	41.9	54.7	60.9	38.4	49.6	81	14	34	36	73	50	.208	.224	2.28	1.69	4.5	3.5	3.8
April	29.40	29.73	28.83	58.3	68.1	75.2	52.8	64.0	94	35	49	51	72	57	.363	.393	7.89	4.98	4.8	4.8	4.3
May	29.42	29.66	29.07	61.6	71.2	76.7	56.6	66.6	87	46	55	58	80	65	.446	.489	7.61	2.66	4.2	3.7	3.9
June	29.46	29.79	29.20	70.9	79.6	86.1	65.8	76.0	95	55	64	66	81	66	.612	.654	4.62	1.42	3.9	3.8	3.8
July	29.53	29.64	29.40	75.0	84.2	90.5	69.3	79.9	98	65	69	69	82	62	.711	.717	2.68	.78	3.5	2.9	3.7
August	29.50	29.70	29.36	70.5	81.1	87.7	66.1	76.9	94	54	65	66	83	60	.624	.641	3.87	2.40	4.1	3.9	3.6
September	29.48	29.82	29.13	65.8	79.7	87.0	61.4	74.2	101	44	58	58	78	51	.498	.499	5.28	2.50	2.6	2.5	3.6
October	29.57	29.96	29.20	51.2	65.5	74.8	47.3	61.0	88	34	44	47	78	52	.309	.336	1.57	.82	1.8	1.5	2.6
November	29.60	30.04	29.19	40.8	50.8	58.5	36.6	47.6	76	20	33	36	74	59	.200	.223	3.61	1.90	5.0	3.4	4.8
December	29.69	30.11	29.14	40.0	49.1	55.2	36.3	45.8	71	16	32	34	72	57	.198	.213	1.09	.67	5.5	4.4	5.5
Year	29.54	30.31	28.83	53.3	64.1	71.1	48.7	59.9	101	6	46	48	78	58	.373	.394	44.70	4.98	4.1	3.5	4.0

FRESNO, CAL.

[λ = 36° 43′ N.; ϕ = 119° 49′ W.; gravity corr., − 0.02.]

January	29.74	30.00	29.24	38.9	46.8	49.2	36.5	42.8	60	29	37	42	94	84	.228	.267	1.04	.39	2.5	4.2	8.2
February	29.76	29.99	29.46	41.7	55.0	58.2	38.7	48.4	70	28	38	43	86	66	.231	.286	2.21	1.48	2.8	4.9	4.5
March	29.66	30.01	29.29	45.7	57.8	61.5	42.8	52.2	84	32	41	43	86	60	.266	.285	4.22	1.22	3.8	6.2	5.9
April	29.70	29.89	29.43	44.9	65.7	68.7	43.1	55.9	82	36	41	38	86	38	.258	.236	.34	.32	2.4	1.8	2.9
May	29.57	29.85	29.37	52.3	79.5	82.6	51.2	66.9	94	42	43	37	72	24	.281	.227	T.	T.	.8	1.8	1.6
June	29.53	29.70	29.28	57.1	88.6	90.5	56.0	73.2	103	49	43	36	61	16	.284	.215	.00	.00	.1	.0	.2
July	29.48	29.63	29.32	64.8	96.4	98.1	63.6	80.8	108	54	46	40	51	15	.307	.252	T.	T.	.5	.2	.7
August	29.45	29.60	29.32	66.4	97.6	99.3	64.6	82.0	109	56	44	39	46	14	.290	.243	.00	.00	.5	.5	.7
September	29.51	29.70	29.33	55.6	81.6	83.3	53.4	68.4	99	47	45	40	69	24	.304	.256	.01	.01	1.1	1.0	1.5
October	29.66	29.89	29.42	49.2	72.4	75.2	46.3	60.8	88	36	38	40	68	33	.235	.248	.02	.02	.9	1.9	2.3
November	29.77	29.96	29.41	43.6	62.4	65.9	40.1	52.8	74	29	35	38	73	44	.211	.240	.16	.15	2.4	2.9	3.4
December	29.82	30.08	29.48	42.4	54.5	57.8	38.7	48.2	69	30	39	43	88	68	.241	.283	1.40	.55	2.1	4.7	6.4
Year	29.64	30.08	29.24	50.2	71.5	74.2	47.9	61.0	109	28	41	40	73	40	.261	.253	9.40	1.48	1.7	2.5	3.2

GALVESTON, TEX.

[λ = 29° 18′ N.; ϕ = 94° 50′ W.; gravity corr.—0.04.]

January	30.11	30.44	29.77	50.0	55.0	59.4	47.4	53.4	70	37	44	47	82	76	.308	.341	.54	.29	3.1	3.7	3.8
February	30.07	30.54	29.71	55.5	58.5	62.6	52.5	57.6	72	37	53	55	92	89	.415	.442	1.99	.85	6.7	5.5	6.2
March	30.06	30.48	29.68	58.1	63.3	67.2	56.3	61.8	78	39	53	57	84	82	.421	.484	.88	.72	4.3	5.6	5.3
April	29.95	30.21	29.60	69.7	70.9	75.3	67.1	71.2	80	53	67	67	90	88	.671	.677	5.79	4.31	7.0	5.7	4.9
May	29.91	30.10	29.65	73.8	75.9	79.8	71.6	75.7	86	59	69	70	85	82	.723	.735	2.98	1.04	5.6	5.3	4.2
June	29.92	30.12	29.68	78.6	81.0	84.6	76.3	80.4	90	70	74	74	86	80	.837	.842	7.45	2.09	5.8	5.0	3.8
July	30.02	30.13	29.89	82.5	83.9	88.3	79.7	84.0	92	71	75	75	79	76	.873	.872	2.96	1.49	3.5	4.3	3.0
August	29.94	30.05	29.83	80.2	82.8	86.5	77.3	81.9	91	70	74	73	82	73	.851	.814	5.02	1.61	5.4	5.0	4.5
September	29.94	30.13	29.70	78.0	80.9	85.5	76.6	81.0	92	66	73	72	85	75	.813	.785	1.72	.97	4.6	4.0	3.0
October	30.05	30.32	29.69	68.9	73.3	77.3	66.7	72.0	86	59	58	62	70	69	.509	.577	.55	.55	1.9	1.6	2.3
November	30.07	30.44	29.73	60.9	64.1	69.3	58.1	63.7	79	43	55	58	83	83	.460	.500	3.92	1.68	5.3	3.6	3.9
December	30.19	30.47	29.70	58.(	61.0	65.2	55.6	60.4	74	37	54	56	86	86	.433	.473	1.72	.48	5.0	3.5	5.0
Year	30.02	30.54	29.60	67.8	70.9	75.1	65.4	70.3	92	37	62	64	84	80	.610	.628	35.43	4.31	4.8	4.4	4.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

EUREKA, CAL.

[H = 64 ft.; h_t = 60 ft.; h_r = 52 ft.; h_a = 69 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
January	4.5	SE.	35	N.	0	15	2	2	19	3	10	5	3	3	3	15	13	9	9	0	0	17	0	0	0	0	0
February	7.6	N.	38	N.	0	17	1	3	15	9	4	2	3	2	6	9	13	17	15	1	0	2	0	0	2	0	0
March	6.7	SE.	34	N.	0	7	2	0	14	13	9	4	8	5	6	9	16	21	18	1	0	0	0	0	0	0	0
April	8.0	N.	39	N.	0	15	0	3	8	9	7	5	8	5	5	7	18	18	16	0	1	0	0	0	0	0	0
May	9.1	NW.	38	N.	0	17	0	0	6	8	4	4	19	4	8	12	11	11	8	0	0	5	0	0	0	0	0
June	8.5	NW.	34	NW.	0	12	1	0	2	3	4	5	23	5	11	11	8	3	2	0	0	4	0	0	0	0	0
July	6.0	NW.	27	N.	0	9	0	0	1	2	8	13	26	3	11	11	9	0	0	0	0	12	0	0	0	0	1
August	4.9	NW.	27	NW.	0	10	0	0	4	1	4	4	33	6	10	9	12	0	0	0	0	18	0	0	0	0	0
September	6.3	NW.	36	NW.	0	11	1	0	10	6	5	3	16	8	8	11	11	8	7	0	0	2	0	0	0	0	0
October	4.9	N.	36	NW.	0	16	1	1	7	5	9	4	9	10	10	8	13	13	13	0	0	7	0	0	0	0	0
November	5.2	S.	37	N.	0	12	2	1	10	16	8	1	1	9	11	5	14	13	12	0	1	3	0	0	0	1	0
December	4.0	SE.	25	SE.	0	14	0	0	17	9	3	4	6	9	7	11	13	9	6	0	0	5	0	0	0	0	0
Year	6.3	NW.	39	N.	0	155	10	10	113	84	75	54	160	69	96	118	151	122	106	2	2	75	0	0	2	1	1

FORT SMITH, ARK.

[H = 492 ft.; h_t = 73 ft.; h_r = 65 ft.; h_a = 81 ft.]

January	6.7	E.	30	N.	0	5	1	20	5	5	9	5	12	0	21	4	6	4	3	2	0	0	2	0	27	0	0
February	7.7	E.	30	W.	0	5	5	17	3	4	3	8	11	0	12	9	7	10	8	2	0	0	3	0	17	4	0
March	8.6	E.	36	W.	0	3	3	29	4	4	4	6	9	0	18	8	5	6	5	0	0	0	0	0	10	2	0
April	8.9	E.	40	NW.	1	5	5	22	7	10	2	5	4	0	14	10	6	11	8	0	0	2	0	0	1	3	0
May	6.7	E.	48	W.	1	9	5	21	7	6	6	5	3	0	15	10	6	12	10	0	0	0	0	0	0	3	0
June	5.7	E.	30	SW.	0	3	3	31	9	8	4	2	0	0	16	10	4	12	10	0	0	0	0	0	7	8	0
July	4.9	E.	24	W.	0	2	8	19	11	13	2	5	1	1	19	8	4	8	7	0	0	0	0	0	18	2	0
August	4.4	E.	24	E.	0	4	14	21	7	3	5	1	2	5	21	6	4	8	4	0	0	1	0	0	11	4	0
September	6.0	E.	32	E.	0	4	7	28	1	16	2	0	0	2	18	6	6	8	7	0	0	0	0	0	14	4	0
October	7.4	E.	36	W.	0	4	6	25	7	3	3	5	7	2	24	2	5	6	6	0	0	1	0	0	0	3	0
November	7.2	E.	32	SW.	0	5	8	18	5	3	5	6	5	5	11	12	7	7	7	0	0	2	0	0	9	0	0
December	8.0	E.	36	S.	0	6	4	26	5	4	3	6	6	2	11	7	13	6	4	1	0	1	1	0	10	0	0
Year	6.8	E.	48	W.	2	55	69	277	71	79	48	54	60	17	200	92	73	98	79	5	2	5	6	51	73	33	0

FRESNO, CAL.

[H = 338 ft.; h_t = 78 ft.; h_r = 66 ft.; h_a = 77 ft.]

January	3.7	NW.	24	NW.	0	3	0	6	11	9	1	3	23	6	2	8	21	5	4	0	0	22	0	0	2	0	0
February	5.1	NW.	25	NW.	0	2	0	13	9	1	0	3	25	3	16	5	7	5	4	0	1	3	0	0	2	1	0
March	5.7	NW.	25	SE.	0	1	0	13	13	4	5	1	23	2	6	13	12	12	11	0	2	0	0	0	1	0	0
April	8.0	NW.	24	NW.	0	1	0	4	2	0	0	3	48	2	17	13	0	2	1	0	0	0	0	0	0	0	0
May	8.5	NW.	28	NW.	0	2	1	1	4	0	0	0	54	0	28	2	1	0	0	0	0	0	0	0	4	0	0
June	9.6	NW.	24	NW.	0	0	0	1	0	0	0	0	59	0	30	0	0	0	0	0	0	0	0	19	0	0	0
July	7.9	NW.	24	NW.	0	1	0	0	0	2	1	0	58	0	30	1	0	0	0	0	0	0	0	29	0	0	0
August	6.9	NW.	22	NW.	0	0	0	0	2	1	0	1	58	0	30	1	0	0	0	0	0	0	0	31	0	0	0
September	7.2	NW.	24	NW.	0	0	3	1	2	0	0	5	49	0	26	3	1	1	0	0	0	0	0	5	0	1	0
October	5.2	NW.	24	NW.	0	0	1	10	7	7	0	1	36	0	24	5	2	1	0	0	0	1	0	0	0	0	0
November	4.2	NW.	22	SE.	0	1	0	14	10	2	0	4	28	1	17	10	3	2	1	0	0	6	0	0	2	0	0
December	3.6	NW.	24	NW.	0	6	1	12	8	8	1	7	19	0	3	14	14	8	7	0	1	17	0	0	1	0	0
Year	6.3	NW.	28	NW.	0	17	6	75	68	34	8	28	480	14	229	75	61	36	28	0	4	49	0	88	8	2	0

GALVESTON, TEX.

[H = 42 ft.; h_t = 85 ft.; h_r = 80 ft.; h_a = 96 ft.]

January	11.6	SE.	38	NW.	0	3	9	6	17	4	8	3	11	1	19	5	7	7	3	0	0	5	0	0	0	0	0
February	11.8	SE.	36	NE.	0	4	14	1	14	8	5	1	9	0	9	6	13	14	7	0	0	6	0	0	0	2	0
March	12.9	SE.	50	NW.	2	3	13	4	18	9	7	2	6	0	15	5	11	6	3	0	0	5	0	0	0	1	0
April	13.9	SE.	54	NW.	3	1	3	6	30	13	4	1	2	0	11	10	9	7	6	0	0	1	0	0	0	5	0
May	12.3	S.	36	N.	0	5	7	3	20	15	8	1	3	0	14	12	5	9	7	0	0	0	0	0	0	4	0
June	11.0	S.	30	E.	0	1	6	8	13	12	12	3	5	0	17	9	4	8	7	0	1	0	0	0	0	3	0
July	9.2	S.	32	NE.	0	1	1	0	11	21	20	3	5	0	23	7	1	8	5	0	0	0	0	0	0	6	0
August	8.2	S.	40	NW.	1	1	12	2	10	16	12	2	6	1	17	6	6	11	8	0	0	0	0	2	0	0	0
September	11.3	SE.	42	NE.	1	2	15	3	21	10	6	0	2	1	23	4	3	3	3	0	0	0	0	3	0	1	0
October	10.3	NE.	34	N.	0	7	17	8	14	8	5	2	1	0	28	3	0	1	1	0	0	0	0	0	0	0	0
November	11.7	NE.	48	NE.	1	2	12	8	8	9	10	4	7	0	19	4	7	13	9	0	0	2	0	0	0	1	0
December	11.7	SE.	50	N.	2	2	4	8	20	9	5	1	12	1	14	8	9	7	7	0	0	7	0	0	0	2	0
Year	11.3	SE.	54	NW.	10	32	113	57	196	134	102	23	69	4	209	79	77	94	66	0	1	26	0	6	0	36	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

GRAND HAVEN, MICH.

[λ=43° 5′ N.; φ=86° 13′ W.; gravity corr., 0.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.			
January	29.24	29.65	28.61	16.0	17.4	23.3	10.6	17.0	48	0	14	16	94	94	.084	.091	4.13	.88	9.7	8.7	9.5
February	29.38	30.16	28.73	18.3	21.0	28.1	13.1	20.6	44	— 2	16	18	90	87	.092	.100	2.17	.45	8.3	7.6	8.1
March	29.31	29.85	28.70	28.3	32.4	38.5	24.4	31.4	64	9	24	26	85	77	.136	.149	2.47	.85	6.7	6.6	6.9
April	29.22	29.63	28.35	38.4	42.7	48.6	34.4	41.5	68	24	32	34	77	73	.180	.204	4.53	1.23	8.4	7.4	7.5
May	29.22	29.63	28.62	49.0	52.9	59.8	42.3	51.0	78	34	41	40	76	66	.260	.254	2.57	1.39	5.0	5.5	5.2
June	29.29	29.55	28.95	64.2	68.1	74.7	57.2	66.0	88	45	56	55	78	66	.458	.439	3.12	1.65	2.8	4.4	4.2
July	29.36	29.55	29.07	67.6	72.2	77.7	60.9	69.3	87	51	59	57	75	62	.509	.483	3.10	1.81	3.8	3.6	3.7
August	29.34	29.59	29.12	63.0	68.6	75.1	55.7	65.4	89	42	54	52	75	58	.427	.400	.57	.38	2.7	3.3	3.3
September	29.32	29.68	28.98	55.9	61.8	69.5	51.0	60.2	85	33	49	48	79	64	.371	.361	3.50	1.36	3.2	3.7	3.9
October	29.31	29.73	28.66	46.8	52.0	59.1	43.8	51.4	79	29	41	42	82	70	.273	.287	2.53	.85	5.4	4.3	4.8
November	29.31	29.78	28.59	34.3	37.2	42.9	30.3	36.6	61	13	28	30	78	74	.161	.171	2.65	1.01	6.2	5.5	6.7
December	29.34	30.02	28.74	26.8	28.8	33.5	21.4	27.4	56	10	24	25	87	85	.133	.142	3.63	1.09	9.1	8.3	8.7
Year	29.30	30.16	28.35	42.4	46.3	52.6	37.1	44.8	89	— 2	36	37	81	73	.257	.257	34.97	1.81	5.9	5.7	6.0

GREEN BAY, WIS.

[λ=44° 31′ N.; φ=88° 0′ W.; gravity corr., 0.]

January	29.30	29.71	28.73	3.6	9.2	14.6	0.5	7.6	31	—22	—2	4	73	75	.040	.052	1.73	.53	6.5	6.8	7.2
February	29.39	30.20	28.68	10.4	16.1	22.1	3.8	13.0	41	—21	5	11	76	77	.062	.077	1.82	.46	7.1	5.5	6.4
March	29.35	29.88	28.64	19.9	28.1	33.4	17.1	25.2	51	— 2	13	22	74	77	.090	.123	2.63	.77	5.5	6.3	6.5
April	29.24	29.72	28.43	36.3	41.5	47.5	33.3	40.4	78	23	29	32	74	70	.160	.184	3.80	.88	8.0	7.8	7.8
May	29.25	29.70	28.83	48.5	54.8	61.5	42.7	52.1	74	32	38	41	69	62	.237	.265	3.54	1.28	6.4	6.4	6.3
June	29.30	29.52	28.99	55.0	71.7	78.4	58.3	68.4	90	43	54	57	69	62	.431	.479	2.48	1.22	4.5	5.6	5.5
July	29.31	29.58	29.06	67.3	74.4	81.9	60.7	71.3	96	53	58	59	74	59	.496	.501	4.12	1.86	5.5	5.1	5.9
August	29.36	29.63	29.09	61.6	69.7	78.1	55.6	66.8	92	43	54	54	76	58	.420	.420	1.52	.64	4.4	6.1	5.5
September	29.34	29.76	28.85	52.6	60.8	69.4	49.2	59.3	88	30	46	47	80	62	.334	.345	3.51	1.90	4.4	5.2	5.6
October	29.30	29.80	28.70	44.1	50.4	57.4	41.0	49.2	79	20	37	41	76	71	.232	.269	1.37	.56	6.4	5.3	6.5
November	29.31	29.78	28.61	29.7	33.4	41.3	25.3	33.3	65	— 4	24	26	78	72	.141	.147	2.27	.82	6.2	6.1	7.0
December	29.36	30.10	28.74	15.6	18.0	24.5	8.6	16.6	42	—15	11	13	80	80	.083	.086	4.20	1.20	7.6	6.2	7.5
Year	29.32	30.20	28.43	37.9	44.0	50.8	33.0	41.9	96	—22	31	34	75	69	.227	.246	32.99	1.90	6.0	6.0	6.5

HANNIBAL, MO.

[λ=39° 41′ N.; φ=91° 20′ W.; gravity corr. —.0.01.]

January	29.47	29.83	28.95	15.3	20.8	26.9	9.8	18.4	48	—7	12	14	86	72	.077	.087	.54	.20	6.4	5.0	6.4
February	29.55	30.32	28.89	20.1	29.1	33.3	15.8	24.6	54	—9	18	22	90	75	.105	.130	2.12	.52	5.6	4.6	5.4
March	29.44	29.97	28.72	33.4	43.0	47.5	30.3	38.9	82	8	29	31	84	63	.167	.186	2.84	1.13	7.0	6.3	7.1
April	29.30	29.71	28.41	47.0	55.3	60.2	43.9	52.0	86	28	39	40	74	61	.248	.267	6.06	1.35	6.6	6.9	7.0
May	29.33	29.62	28.94	56.3	65.7	70.2	51.7	61.0	87	38	50	52	79	62	.365	.396	7.04	4.08	5.6	4.6	5.4
June	29.39	29.72	28.95	68.4	77.1	82.4	63.2	73.8	92	50	62	62	82	61	.571	.564	5.19	1.36	5.3	4.5	4.7
July	29.43	29.60	29.21	72.4	82.8	87.2	68.2	77.7	93	59	65	66	78	58	.615	.647	1.50	.53	4.9	3.1	3.8
August	29.44	29.69	29.26	65.4	77.9	83.8	60.6	72.2	94	47	58	58	77	52	.485	.504	.54	.31	2.5	3.6	3.0
September	29.41	29.78	29.02	60.8	75.0	81.7	57.5	69.6	96	34	52	53	73	50	.398	.424	1.47	.43	4.6	4.1	4.2
October	29.44	29.95	28.95	48.0	61.2	68.9	45.1	57.0	90	25	41	42	78	59	.282	.284	.50	.26	2.7	3.0	3.1
November	29.49	29.85	28.84	33.4	43.2	50.6	30.1	40.4	75	9	28	28	80	55	.162	.161	1.25	.58	4.3	4.0	4.5
December	29.55	30.17	29.08	29.2	34.1	40.5	23.5	32.0	68	—1	23	26	78	72	.143	.157	.37	.19	5.5	4.2	5.7
Year	29.44	30.32	28.41	45.8	55.4	61.1	41.6	51.4	96	—9	40	41	80	61	.302	.317	29.22	4.08	5.1	4.5	5.0

HARRISBURG, PA.

[λ=40° 16′ N.; φ=76° 52′ W.; gravity corr.— 0.01.]

January	29.58	30.01	28.80	18.1	22.5	26.9	15.0	21.0	45	—4	11	16	74	76	.083	.090	2.05	1.00	7.0	4.5	5.7
February	29.74	30.37	28.82	26.8	30.9	35.6	22.9	29.2	52	7	20	24	75	77	.119	.136	4.66	1.15	6.9	6.1	6.5
March	29.67	30.20	29.09	33.3	39.0	43.1	29.6	36.4	65	11	28	31	79	72	.155	.177	1.97	.77	6.7	4.5	5.5
April	29.64	30.03	29.16	45.1	51.8	56.1	41.1	48.6	71	33	39	42	81	73	.248	.283	3.67	.89	5.9	6.0	6.0
May	29.51	29.98	28.95	56.1	61.8	67.6	50.5	59.0	86	41	48	52	77	73	.347	.404	5.32	2.32	5.4	6.2	5.8
June	29.62	29.92	29.18	68.4	73.2	79.7	62.4	71.0	96	54	61	63	78	73	.538	.586	2.46	1.50	5.7	5.2	5.5
July	29.58	29.85	29.30	70.5	77.2	84.7	65.0	74.8	93	55	61	63	73	64	.551	.595	1.92	.51	4.5	4.6	4.5
August	29.59	29.82	28.99	69.0	75.5	83.3	62.9	73.1	95	54	60	61	74	62	.531	.546	3.69	1.33	4.5	4.9	4.7
September	29.66	29.96	29.31	59.0	64.3	71.3	55.4	63.4	86	41	53	56	82	75	.420	.463	1.74	.59	6.8	4.6	5.6
October	29.71	30.10	28.85	50.9	56.7	63.0	46.9	55.0	82	28	46	50	84	80	.324	.377	3.25	1.30	5.6	4.1	4.9
November	29.72	30.25	29.36	36.8	42.0	46.9	34.0	40.4	59	22	31	36	79	79	.180	.218	2.54	1.32	5.8	4.5	5.2
December	29.74	30.41	29.15	30.8	34.2	40.0	27.0	33.5	63	16	26	28	80	78	.145	.159	1.91	.76	7.2	4.3	5.7
Year	29.65	30.41	28.80	47.1	52.4	58.2	42.7	50.4	96	—4	40	44	78	74	.303	.337	35.18	2.32	6.0	5.0	5.5

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

GRAND HAVEN, MICH.

[H = 628 ft.; h_t = 55 ft.; h_r = 48 ft.; h_a = 64 feet.]

Month.	Wind.														Number of days.												
	By self-registers.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	10.1	SE.	44	SW.	1	8	3	9	15	1	5	7	14	0	0	2	29	28	21	27	0	1	28	0	31	0	1
February	12.1	W.	48	W.	2	4	3	12	10	2	5	12	8	0	2	7	19	18	15	14	0	1	20	0	28	0	2
March	11.4	W.	36	E.	0	8	3	10	8	4	9	10	10	0	6	6	19	12	10	5	0	0	9	0	26	0	0
April	13.8	E.	42	E.	2	5	2	18	6	4	5	14	6	0	3	11	16	16	12	2	0	1	0	0	7	5	0
May	10.3	NW.	35	NW.	0	4	2	11	4	6	9	13	13	0	8	16	7	11	7	0	0	2	0	0	0	1	0
June	8.5	SW.	28	SE.	0	1	3	5	10	3	15	13	10	0	14	12	4	10	7	0	0	4	0	0	0	4	0
July	8.1	NW.	28	W.	0	3	3	8	5	5	13	10	15	0	15	13	3	12	7	0	1	0	0	0	0	2	1
August	7.2	NW.	26	NW.	0	4	4	8	7	5	8	7	19	0	16	13	2	3	2	0	0	2	0	0	0	1	0
September	9.7	SE.	35	NW.	0	2	2	11	17	0	8	7	12	1	14	9	7	9	6	0	0	1	0	0	0	2	0
October	11.3	SE.	50	NW.	2	2	1	4	21	11	3	4	16	0	11	10	10	10	7	0	0	0	0	0	5	1	0
November	12.8	NW.	42	W.	1	0	2	5	13	6	8	11	15	0	8	6	16	12	10	8	0	5	5	0	17	0	1
December	14.1	SW.	42	NW.	1	7	3	7	8	1	18	7	11	0	4	2	25	24	19	19	0	4	16	0	27	0	0
Year	10.8	NW.	50	NW.	9	48	31	108	124	48	106	115	149	1	101	107	157	165	123	75	1	21	78	0	141	16	5

GREEN BAY, WIS.

[H = 617 ft.; h_t = 49 ft.; h_r = 41 ft.; h_a = 57 ft.]

January	8.3	SW.	36	N.	0	18	0	0	0	7	20	8	9	0	4	11	16	18	11	18	0	0	31	0	31	0	0
February	9.8	SW.	45	SW.	2	12	4	1	2	12	14	10	1	0	4	15	9	14	8	12	0	1	23	0	28	0	1
March	9.6	N.	45	N.	1	19	8	3	3	14	9	2	4	0	7	9	15	12	10	10	0	0	14	0	26	1	0
April	11.0	NE.	42	W.	2	3	18	7	11	4	4	6	7	0	1	10	19	14	12	2	0	0	0	0	10	4	0
May	9.1	N.	42	SW.	2	19	8	1	10	6	9	3	6	0	7	13	11	15	14	0	1	0	0	0	0	2	0
June	7.8	S.	36	SW.	0	5	5	0	12	18	8	5	6	1	8	16	6	6	6	0	0	1	0	0	0	3	0
July	7.4	S.	34	SW.	0	7	4	1	8	19	12	9	2	0	6	16	9	9	9	0	0	0	0	3	0	6	2
August	7.0	S.	28	N.	0	13	1	3	12	15	10	8	3	2	7	17	7	5	5	0	0	1	0	2	0	3	0
September	8.2	SW.	52	NW.	1	5	9	2	10	8	15	5	6	0	11	12	7	10	8	0	0	2	0	0	2	3	0
October	9.3	S.	45	NW.	1	2	4	2	9	17	12	5	11	0	7	9	15	8	7	0	0	0	0	0	5	0	0
November	8.9	S.	30	NW.	0	1	3	0	5	16	15	14	6	0	3	12	15	10	7	7	0	3	8	0	20	0	0
December	9.2	SW.	36	N.	0	10	7	1	2	11	17	4	9	1	2	10	19	21	16	19	0	0	21	0	30	0	0
Year	8.8	S.	52	NW.	9	114	71	21	84	147	145	74	70	4	67	150	148	142	113	68	1	8	97	5	152	22	3

HANNIBAL, MO.

[H = 534 ft.; h_t = 75 ft.; h_r = 68 ft.; h_a = 107 ft.]

January	9.6	NW.	36	W.	0	7	3	4	6	5	5	13	18	1	4	14	13	6	4	5	0	0	19	0	31	0	0
February	10.3	W.	40	W.	1	6	5	8	3	6	6	12	9	1	11	8	9	7	7	5	0	0	10	0	26	0	0
March	11.9	W.	42	W.	1	5	2	13	4	8	9	14	6	1	5	10	16	7	7	1	0	0	6	0	19	1	0
April	13.1	E.	60	SW.	5	9	5	13	6	9	4	8	6	0	4	8	18	18	13	1	5	0	0	0	5	10	0
May	10.4	N.	40	SE.	1	11	7	8	7	8	8	5	8	0	10	10	11	14	10	0	0	0	0	0	0	4	0
June	7.5	S.	48	W.	3	6	4	6	9	12	11	4	8	0	8	18	4	11	11	0	0	0	0	1	0	9	0
July	7.6	SW.	39	W.	0	11	5	3	4	4	20	6	9	0	16	11	4	6	6	0	0	0	0	9	0	5	0
August	6.1	N.	24	W.	0	17	9	8	6	5	3	6	7	1	21	8	2	3	2	0	0	0	0	4	0	1	0
September	8.8	SW.	38	SW.	0	12	8	3	7	3	14	6	6	1	15	9	6	8	7	0	0	1	0	8	0	0	0
October	10.2	S.	36	SW.	0	4	1	2	8	16	6	13	11	1	21	7	3	3	3	0	0	1	0	1	5	1	0
November	8.7	SW.	36	SW.	0	5	3	4	4	9	16	13	5	1	13	11	6	5	4	0	0	1	2	0	15	0	0
December	11.9	NW.	37	SW.	0	5	2	3	5	13	12	8	14	0	7	14	10	8	4	4	0	0	10	0	25	0	0
Year	9.7	SW.	60	SW.	11	98	54	75	69	98	114	108	107	7	135	128	102	96	78	16	5	3	47	23	126	31	0

HARRISBURG, PA.

[H = 377 ft.; h_t = 94 ft.; h_r = 87 ft.; h_a = 102 ft.]

January	8.8	NW.	41	NW.	2	2	5	8	4	3	5	12	20	3	6	14	11	8	5	7	0	2	20	0	30	0	0
February	10.1	NW.	48	NW.	2	9	4	7	5	1	5	11	13	1	6	8	14	13	10	9	0	0	9	0	25	0	0
March	8.8	NW.	36	NW.	0	9	5	13	6	2	3	11	13	0	10	9	12	10	9	1	0	2	4	0	17	0	0
April	8.9	E.	48	NW.	3	9	6	15	5	6	4	7	7	1	8	10	12	14	13	0	0	2	0	0	0	2	0
May	8.1	W.	36	W.	0	3	7	6	8	8	4	21	5	0	10	6	15	16	14	0	0	2	0	0	0	4	0
June	6.0	E.	24	W.	0	6	3	17	3	6	8	10	7	0	10	7	13	12	8	0	0	0	0	2	0	5	0
July	6.0	E.	32	W.	0	7	7	12	3	4	7	11	11	0	12	10	8	12	8	0	0	0	0	6	0	4	0
August	6.2	E.	40	W.	1	9	8	11	7	3	3	9	11	1	13	8	10	9	8	0	0	0	0	5	0	3	0
September	6.6	W.	33	W.	0	5	10	11	4	1	6	13	9	1	9	9	12	10	7	0	0	0	0	0	0	5	0
October	7.1	W.	48	S.	2	11	7	9	8	4	3	13	6	1	13	7	11	9	9	0	0	0	0	0	2	0	0
November	6.7	W.	36	W.	0	7	5	13	2	3	2	19	7	2	10	9	11	10	8	1	0	2	0	0	11	0	0
December	7.5	W.	38	NW.	0	4	5	12	3	6	9	12	9	2	7	14	10	12	8	5	0	3	6	0	24	0	0
Year	7.6	W.	48	NW.	10	81	72	134	58	47	59	149	118	12	115	111	139	135	107	23	0	13	39	13	109	23	0

a By eye observations at 8 a. m. and 8 p. m., when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31 1893—Continued.

HATTERAS, N. C.

[λ=35° 15′ N.; ϕ=75° 40′ W.; gravity corr., −0.03.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	30.04	30.43	29.38	34.3	36.5	43.4	29.6	36.5	68	16	29	30	80	78	.177	.183	3.43	1.45	4.5	2.2	5.0
February	30.19	30.71	29.63	45.2	47.7	54.5	40.6	47.6	65	30	39	43	80	84	.253	.292	2.49	.79	4.9	4.1	5.6
March	30.09	30.50	29.22	47.4	47.7	53.5	42.6	48.0	68	28	42	43	82	85	.286	.295	4.51	1.59	4.5	4.9	5.5
April	30.10	30.34	29.71	59.7	58.2	65.1	53.4	59.2	73	43	54	53	83	84	.433	.417	3.14	1.28	4.4	2.5	4.1
May	29.96	30.37	29.54	66.0	64.9	70.9	60.4	65.7	79	51	59	60	79	84	.517	.528	4.51	1.75	2.8	2.9	3.7
June	30.03	30.22	29.50	73.2	71.6	78.2	68.4	73.3	86	62	68	68	84	87	.686	.679	5.23	2.56	4.1	4.2	4.4
July	30.02	30.27	29.86	78.7	77.3	83.3	73.4	78.3	88	66	72	72	80	83	.783	.785	3.66	2.18	3.6	4.1	4.0
August *a*	29.98	30.14	29.70	77.2	76.0	81.2	72.6	76.9	85	64	72	71	84	84	.779	.757	*b* 7.36	*b* 3.76	5.8	5.4	6.4
September	30.06	30.18	29.85	73.8	72.7	78.3	69.7	74.0	83	58	67	66	80	79	.683	.647	4.63	1.91	5.0	3.0	5.6
October	30.07	30.46	29.50	64.6	64.5	68.9	61.2	65.0	78	48	58	58	81	81	.508	.506	7.16	2.48	5.1	4.6	5.8
November	30.19	30.62	29.55	55.4	56.5	60.6	51.0	55.8	71	33	51	51	84	84	.392	.405	8.32	6.16	5.9	5.2	5.9
December	30.20	30.78	29.67	50.0	50.9	55.6	44.1	49.8	72	36	45	46	84	82	.318	.322	3.86	1.63	4.2	3.7	5.0
Year	30.07	30.78	29.22	60.5	60.4	66.1	55.6	60.8	88	16	55	55	82	83	.485	.485	58.30	6.16	4.6	3.9	5.1

a Six 8 a. m. and six 8 p. m. observations missed. *b* For 31 days.

HAVRE, MONT.

[λ=48° 34′ N.; ϕ=109° 40′ W.; gravity corr., +0.01.]

January	27.37	27.75	27.00	15.1	18.4	24.1	9.5	16.8	51	−43	10	12	82	78	.092	.103	1.23	.40	5.4	6.1	6.1
February	27.38	27.86	26.96	2.7	9.3	13.2	−1.2	6.0	44	−45	0	5	86	81	.061	.076	.34	.20	4.1	5.7	5.7
March	27.31	27.86	26.86	10.3	23.6	28.5	7.5	18.0	62	−18	7	18	87	80	.072	.107	.42	20	5.7	4.9	5.4
April	27.28	27.56	26.74	28.7	42.8	47.7	26.0	36.8	69	16	24	26	83	55	.129	.142	1.14	.35	6.1	6.8	6.4
May	27.25	27.60	26.90	44.5	62.5	67.5	40.8	54.2	87	25	38	39	80	46	.236	.247	1.80	.69	4.2	5.8	5.2
June	27.28	27.60	26.94	51.7	68.3	72.2	46.4	59.3	89	36	43	40	74	40	.279	.257	1.20	.32	5.2	5.4	5.3
July	27.30	27.59	27.05	56.8	80.8	84.5	52.6	68.6	102	37	48	50	74	36	.342	.360	1.77	.84	2.9	3.7	3.5
August	27.32	27.69	26.99	52.8	80.1	84.3	50.5	67.4	103	34	42	41	67	28	.268	.265	1.16	.85	3.4	3.3	3.6
September	27.26	27.73	26.86	43.4	62.0	67.9	41.5	54.7	93	25	36	39	76	48	.217	.239	1.67	.91	5.3	5.3	5.7
October	27.29	27.70	26.81	36.0	43.4	51.1	30.5	40.8	70	13	29	30	77	62	.159	.170	1.40	.33	6.4	5.4	6.4
November	27.34	27.93	26.90	22.0	27.7	34.2	16.3	25.2	64	−16	15	16	75	66	.099	.102	.80	.37	5.5	5.0	6.4
December	27.29	27.70	26.86	19.9	25.5	30.2	15.7	23.0	52	−20	16	20	83	79	.101	.120	.38	.24	4.7	5.4	6.0
Year	27.31	27.93	26.74	32.0	45.4	50.4	28.0	39.2	103	−45	26	28	79	58	.171	.182	13.31	.91	4.9	5.2	5.5

HELENA, MONT.

[λ=46° 34′ N.; ϕ=112° 04′ W.; gravity corr., 0.]

January	25.82	26.20	25.38	19.3	22.4	27.8	16.0	21.9	59	−42	7	7	60	54	.073	.071	1.72	0.62	6.1	6.2	6.5
February	25.75	26.13	25.19	8.4	16.2	19.9	4.6	12.2	43	−41	4	8	79	70	.076	.084	0.58	0.21	4.1	7.3	6.1
March	25.68	26.06	25.26	23.4	34.7	38.3	22.6	30.4	72	6	17	20	75	54	.101	.106	0.14	0.09	4.0	6.0	5.7
April	25.70	25.99	25.12	31.4	43.4	48.1	29.5	38.8	67	16	24	23	72	47	.130	.125	2.31	0.80	4.5	6.6	6.7
May	25.74	26.12	25.45	43.7	57.9	61.6	40.8	51.2	87	32	37	33	77	42	.221	.189	3.04	1.50	4.2	6.0	5.7
June	25.77	26.02	25.40	49.4	65.2	68.5	45.2	56.8	92	36	42	39	75	42	.266	.242	0.82	0.34	3.0	5.4	4.7
July	25.80	26.05	25.60	59.1	79.0	82.5	56.5	69.5	102	47	46	41	64	28	.319	.262	0.86	0.55	2.5	4.0	3.5
August	25.83	26.14	25.54	53.3	77.1	80.8	52.0	66.4	98	42	43	37	71	26	.284	.230	0.46	0.46	2.3	3.8	3.3
September	25.75	26.18	25.40	45.4	60.0	65.1	43.8	54.4	90	30	38	37	78	46	.234	.221	2.09	1.63	5.7	6.0	6.1
October	25.79	26.22	25.40	35.9	44.3	50.3	34.2	42.2	67	20	31	30	82	59	.173	.168	0.84	0.28	4.8	6.6	5.9
November	25.79	26.31	25.38	27.2	33.5	39.0	23.1	31.0	63	−12	20	21	73	62	.114	.118	1.44	0.53	5.6	6.1	6.0
December	25.79	26.20	25.32	29.0	32.5	37.9	24.4	31.2	51	−1	20	22	68	63	.108	.115	0.18	0.46	4.8	4.9	5.2
Year	25.77	26.31	25.12	35.5	47.2	51.6	32.7	42.2	102	−42	27	26	73	49	.175	.161	15.48	1.63	4.3	5.7	5.4

HURON, S. DAK.

[λ=44° 21′ N.; ϕ=98° 14′ W.; gravity corr., 0.]

January	28.63	29.10	28.06	5.5	10.5	19.4	−1.7	8.8	42	−28	3	6	88	82	.053	.064	0.85	0.17	6.7	5.1	5.9
February	28.66	29.37	28.20	3.1	12.9	19.9	−1.8	9.0	40	−33	1	8	90	80	.052	.071	0.59	0.24	6.1	4.2	5.0
March	28.60	29.26	27.88	16.2	27.0	33.4	13.0	23.2	59	−17	13	21	85	76	.068	.119	1.58	0.47	6.9	5.7	6.7
April	28.48	28.87	27.63	32.7	44.2	51.1	29.8	40.4	73	14	29	30	85	61	.159	.171	4.68	1.56	6.4	6.5	6.6
May	28.53	28.88	27.91	46.1	61.5	67.0	41.0	54.0	88	26	38	41	76	50	.240	.259	2.49	1.21	4.5	5.2	5.1
June	28.48	28.79	28.24	62.6	77.7	84.4	55.9	70.2	97	44	55	56	76	48	.437	.447	0.67	0.37	3.7	3.6	3.8
July	28.55	28.82	28.25	63.6	80.7	86.8	57.6	72.2	102	48	57	60	80	50	.476	.516	2.34	2.62	3.5	2.3	3.0
August	28.57	28.90	28.15	57.9	77.5	84.5	53.1	68.8	99	34	51	56	79	40	.391	.379	0.59	0.18	3.1	1.8	2.8
September	28.50	28.97	28.08	49.7	69.6	79.2	45.9	62.6	102	18	40	40	71	36	.277	.273	0.23	0.22	3.8	2.5	3.1
October	28.54	29.09	28.19	34.5	50.0	60.6	30.8	45.7	81	12	27	33	74	54	.161	.189	0.19	0.12	4.5	3.3	4.4
November	28.59	29.00	28.05	20.1	32.3	42.7	15.9	29.3	77	−8	15	19	80	60	.094	.112	0.72	0.30	6.0	4.1	5.3
December	28.64	29.27	28.22	11.4	16.0	25.0	3.0	14.0	55	−20	9	11	89	81	.071	.079	1.01	0.50	6.1	4.9	5.9
Year	28.56	29.37	27.63	33.6	46.7	54.5	28.5	41.5	102	−33	28	31	81	60	.208	.223	16.94	2.62	5.1	4.1	4.8

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

HATTERAS, N. C.

[H = 11 ft.; h_t = 18 ft.; h_r = 2 ft.; h_a = 36 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	14.5	N.	49	S.	4	23	4	2	3	7	5	12	6	0	13	8	10	10	9	0	0	0	6	0	19	1	0
February	15.8	N.	44	W.	1	15	5	4	4	10	5	6	6	1	9	10	9	11	10	0	0	4	0	0	2	0	0
March	15.9	N.	56	NW.	3	20	5	4	3	16	2	7	5	0	12	7	12	10	8	0	0	2	0	0	1	2	0
April	14.2	S.	36	N.	0	5	11	7	5	23	4	3	2	0	14	12	4	11	9	0	0	2	0	0	0	3	0
May	14.0	S.	48	S.	2	4	10	5	3	20	8	11	1	0	19	7	5	11	10	0	0	0	0	0	0	3	0
June	11.7	NE.	42	W.	2	6	16	3	5	9	9	9	3	0	13	10	7	9	6	0	0	0	0	0	0	3	0
July	10.7	SW.	60	NW.	1	2	10	6	2	9	19	12	2	0	12	16	3	6	4	0	0	0	0	0	0	6	0
August	12.3	NE.	60	N.	1	2	11	8	4	7	8	6	3	1	5	10	10	13	12	0	0	0	0	0	0	1	0
September	10.5	SW.	36	W.	0	5	10	11	3	5	13	11	1	1	11	10	9	12	12	0	0	0	0	0	0	0	0
October	14.3	N.	60	SE.	4	19	12	13	3	3	2	3	6	1	9	12	10	9	8	0	0	0	0	0	0	0	0
November	15.4	NE.	49	NW.	2	13	15	1	4	2	8	6	11	0	11	8	11	12	10	0	0	0	0	0	0	6	0
December	15.5	W.	56	NW.	3	6	11	1	1	6	11	13	13	0	14	9	8	9	8	0	0	0	0	0	0	2	0
Year	13.7	N.	60	N., SE., NW.	23	120	120	65	40	117	94	99	59	4	142	119	98	123	106	0	0	8	6	0	22	22	0

HAVRE, MONT.

[H = 2,477 ft.; h_t = 15 ft.; h_r = 2 ft.; h_a = 33 ft.]

January	10.6	SW.	52	SW.	1	6	13	0	0	0	22	11	9	1	6	15	10	11	9	10	0	1	14	0	25	0	3
February	10.8	W.	32	E.	0	3	5	3	0	0	15	19	11	0	8	9	11	9	2	9	0	0	20	0	28	0	3
March	8.6	NE.	32	W.	0	7	21	10	0	1	6	9	8	0	7	18	6	5	2	5	0	0	20	0	29	0	3
April	10.2	NE.	42	NW.	2	14	11	6	3	0	7	8	9	2	3	18	9	6	5	6	0	0	3	0	24	0	0
May	9.8	W.	48	NW.	2	4	4	15	5	0	12	10	9	3	5	23	3	11	7	0	0	0	0	0	3	3	0
June	9.9	W.	41	SW.	1	7	3	4	2	0	10	21	12	1	8	19	3	12	9	0	1	0	0	0	0	6	0
July	9.2	W.	52	NW.	4	6	7	8	5	2	4	19	11	0	16	12	3	9	9	0	1	0	9	8	0	8	1
August	8.2	NW.	40	W.	1	6	7	11	4	1	8	7	15	3	12	17	2	5	5	0	0	0	0	11	0	4	1
September	8.4	W.	50	NW.	1	4	9	5	0	2	11	13	14	2	6	13	11	7	4	2	0	0	0	4	6	1	1
October	9.7	SW.	40	SW.	1	4	7	5	2	0	21	18	5	0	4	14	13	14	8	6	0	0	3	0	19	0	4
November	10.7	SW.	36	W.	0	7	5	3	0	0	20	15	9	1	3	17	10	9	6	9	0	0	13	0	24	0	3
December	10.3	SW.	40	SW.	1	0	11	1	4	0	20	13	13	0	5	16	10	8	1	6	0	2	13	0	26	0	1
Year	9.7	W.	52	SW., NW.	14	68	103	71	25	6	156	163	125	13	83	191	91	106	67	53	2	3	86	23	184	22	20

HELENA, MONT.

[H = 4,118 ft.; h_t = 85 ft.; h_r = 75 ft.; h_a = 91 ft.]

January	7.3	SW.	48	W.	2	5	1	2	1	0	25	18	8	2	8	8	15	8	6	8	0	0	12	0	22	0	0
February	6.1	SW.	35	SW.	0	1	1	3	1	0	24	19	15	1	5	13	10	8	4	8	0	0	17	0	25	0	0
March	7.1	SW.	34	SW.	0	3	1	4	5	2	32	9	6	0	7	13	11	3	3	3	0	0	9	0	26	0	0
April	8.0	SW.	37	SW.	0	9	3	1	1	2	27	10	5	2	6	8	16	14	7	11	0	0	0	0	19	0	0
May	9.5	SW.	48	SW.	3	3	1	2	1	1	43	8	3	0	8	12	11	13	9	2	0	0	0	0	0	1	0
June	8.9	SW.	45	SW.	1	6	1	2	1	1	37	8	4	0	11	13	6	8	4	0	0	0	0	1	0	2	0
July	8.5	SW.	40	SW.	1	0	0	4	1	2	34	16	5	0	14	16	1	7	3	0	2	0	0	5	0	8	2
August	7.8	SW.	46	SW.	4	4	3	3	2	14	23	9	2	2	17	9	5	1	1	0	0	0	0	4	0	5	4
September	7.0	SW.	38	SW.	0	2	0	4	1	0	41	6	5	1	8	6	16	13	10	2	1	0	0	2	0	3	1
October	7.9	SW.	48	SW.	1	4	1	1	2	1	41	6	3	3	7	10	14	13	6	4	0	0	1	0	8	0	0
November	7.3	SW.	40	SW.	1	3	0	1	1	2	27	20	2	4	10	5	15	11	7	9	0	0	8	0	22	0	1
December	8.5	SW.	42	SW.	2	1	0	0	0	2	34	18	2	5	13	4	14	6	3	2	0	0	8	0	21	0	0
Year	7.8	SW.	48	W., SW.	15	41	12	27	17	27	388	138	60	20	114	117	134	105	63	49	3	0	55	10	145	19	8

HURON, S. DAK.

[H = 1,310 ft.; h_t = 63 ft.; h_r = 56 ft.; h_a = 72 ft.]

January	12.8	NW.	60	W.	2	15	0	2	15	2	0	8	20	0	9	11	11	12	9	12	0	0	21	0	31	0	0
February	13.3	NW.	36	NW.	0	6	2	2	13	0	0	10	21	2	11	11	6	10	4	10	0	0	19	0	28	0	2
March	12.7	NW.	46	NW.	3	11	1	5	14	5	1	1	21	3	6	11	14	13	8	10	0	0	16	0	29	0	0
April	15.9	NW.	60	NW.	6	13	10	2	14	1	4	4	12	0	5	11	14	14	12	5	1	0	2	0	22	2	0
May	13.9	SE.	56	SE.	4	15	6	5	20	0	2	5	9	0	12	9	10	9	7	1	0	0	0	0	3	3	0
June	15.9	SE.	59	S.	10	4	1	0	26	6	5	6	11	1	14	14	2	4	3	0	0	0	0	10	0	4	0
July	12.1	SE.	48	SE.	1	5	4	6	21	6	1	2	17	0	20	11	0	7	6	0	0	0	0	7	0	9	2
August	13.5	SE.	50	SE.	5	10	2	1	27	7	2	1	12	0	21	10	0	10	6	0	0	0	0	5	0	5	2
September	14.4	SE.	49	SE.	5	5	2	4	24	3	0	0	15	1	21	6	3	2	1	0	0	0	0	9	6	0	0
October	13.3	NW.	51	W.	2	7	1	3	15	4	2	12	17	1	15	10	6	5	2	1	0	0	0	0	15	0	0
November	13.0	NW.	40	SE.	1	6	0	0	17	3	4	7	23	0	11	13	6	6	4	6	0	0	10	0	28	0	0
December	12.8	NW.	44	NW.	1	7	6	2	17	5	1	4	20	0	9	9	13	11	6	11	0	0	21	0	31	0	0
Year	13.6	SE.	60	W., NW.	40	104	35	32	223	42	22	66	198	8	154	126	85	103	68	56	1	0	89	31	193	23	6

a By eye observations at 8 a. m. and 8 p. m., when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

IDAHO FALLS, IDAHO.

[λ=43° 29′ N.; ϕ=112° 4′ W.; gravity corr., 0]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	25.32	25.65	24.55	10.6	21.0	27.0	5.4	16.2	42	−10	8	17	88	83	.065	.093	0.93	0.48	4.8	7.0	7.7
February	25.22	25.59	24.80	10.0	21.2	24.7	4.2	14.4	40	−22	8	18	92	88	.067	.100	1.78	0.38	7.0	8.2	8.9
March	25.15	25.59	24.68	19.2	32.0	34.5	15.2	24.8	51	−15	16	26	89	78	.106	.141	1.38	0.35	7.4	7.6	8.5
April	25.13	25.36	24.66	32.1	46.6	49.7	29.5	39.6	64	20	28	25	83	46	.150	.141	0.44	0.18	7.3	8.8	8.6
May	25.16	25.52	24.90	38.1	59.4	63.2	35.5	49.4	84	26	30	29	76	35	.171	.162	0.42	0.22	5.4	6.9	7.6
June	25.19	25.45	24.83	46.2	74.4	76.3	42.1	59.2	89	34	32	23	59	16	.180	.126	0.06	0.06	3.1	4.6	4.5
July	25.23	25.43	25.05	52.5	84.5	86.2	49.1	67.6	99	32	36	27	55	13	.214	.159	T.	T.	2.8	4.4	4.0
August	25.25	25.45	25.06	51.2	81.6	85.1	48.5	66.8	96	33	36	29	60	17	.218	.174	0.36	0.16	1.9	4.4	5.2
September	25.18	25.48	24.84	43.3	68.0	70.5	40.9	55.7	87	23	34	29	71	27	.197	.163	1.25	0.61	4.8	5.3	6.0
October	25.25	25.57	24.88	35.7	52.8	58.2	32.5	45.4	73	19	27	26	73	38	.149	.147	0.14	0.08	5.2	6.7	7.0
November	25.26	25.65	24.89	24.8	36.0	40.9	20.2	30.6	59	1	21	27	84	71	.119	.147	1.29	0.64	4.8	6.6	7.6
December	25.30	25.77	24.91	25.2	32.5	36.1	20.5	28.3	50	6	22	27	85	81	.117	.149	0.59	0.16	5.6	7.3	8.2
Year	25.22	25.77	24.55	32.4	50.8	54.4	28.6	41.5	99	−22	25	25	76	49	.146	.142	8.64	0.64	5.0	6.5	7.0

INDIANAPOLIS, IND.

[λ=39° 46′ N.; ϕ=86° 10′ W.; gravity corr., −0.01.]

January	29.17	29.53	28.58	14.8	19.8	25.1	10.7	17.9	53	−15	12	14	87	76	.083	.091	2.77	1.09	7.4	6.8	7.2
February	29.29	30.03	28.79	26.2	31.5	37.9	22.0	30.0	54	0	20	26	77	78	.117	.144	6.16	1.39	8.0	6.4	7.1
March	29.21	29.71	28.60	35.5	43.0	48.9	31.6	40.2	75	12	30	29	79	58	.174	.171	2.69	.84	6.4	6.1	6.4
April	29.11	29.41	28.29	48.3	54.1	60.2	42.8	52.0	81	30	39	42	72	65	.253	.279	8.60	1.60	7.1	7.8	7.5
May	29.11	29.46	28.75	56.4	62.3	69.3	50.5	59.9	88	40	48	47	74	60	.344	.343	3.15	.72	5.5	5.8	6.1
June	29.18	29.49	28.85	69.1	76.1	83.0	62.6	72.8	93	54	59	58	70	56	.499	.491	3.02	1.32	4.4	4.6	4.8
July	29.20	29.36	29.04	73.2	82.9	90.4	67.8	79.1	97	56	61	60	67	47	.553	.531	0.83	.29	3.8	4.1	4.7
August	29.20	29.41	28.96	66.6	78.6	85.5	61.3	73.4	95	47	54	54	65	45	.426	.432	0.61	.31	2.5	4.2	3.6
September	29.20	29.51	28.96	62.0	72.2	79.4	58.5	69.0	94	38	51	52	68	52	.397	.410	3.03	1.50	4.7	4.7	4.6
October	29.24	29.64	28.77	48.6	57.4	65.6	45.8	55.7	84	26	44	42	84	57	.307	.290	3.01	1.57	3.9	2.9	3.3
November	29.26	29.67	28.66	35.7	43.3	49.0	32.9	41.0	69	8	29	33	76	67	.166	.196	3.25	1.48	5.7	4.2	5.4
December	29.31	29.92	28.74	29.7	35.6	40.1	25.5	32.8	66	6	24	28	77	74	.139	.165	2.23	1.16	6.8	6.1	7.0
Year	29.21	30.03	28.29	47.2	54.7	61.2	42.8	52.0	97	−15	39	40	75	61	.288	.295	39.35	1.60	5.5	5.3	5.6

JACKSONVILLE, FLA.

[λ=30° 20′ N.; ϕ=81° 39′ W.; gravity corr., — 0.04.]

January	30.06	30.43	29.64	41.8	49.4	59.4	39.1	49.2	72	24	34	35	74	58	.220	.222	0.98	0.32	4.3	3.1	4.5
February	30.13	30.45	29.87	55.9	61.4	70.5	52.8	61.6	82	41	51	53	85	75	.387	.417	6.87	2.00	5.0	4.9	5.9
March	30.07	30.38	29.69	55.6	60.4	70.5	50.7	60.6	84	28	48	48	78	67	.364	.370	8.90	2.31	4.7	4.3	5.0
April	30.06	30.29	29.72	67.7	70.9	82.8	62.4	72.6	90	53	59	60	75	60	.517	.519	2.67	2.54	2.5	3.4	4.1
May	29.96	30.19	29.67	71.8	73.3	84.5	66.1	75.3	93	57	64	62	77	70	.611	.572	4.18	2.00	4.8	5.0	5.4
June	29.97	30.18	29.53	78.0	78.1	88.0	72.1	80.0	95	68	71	70	78	77	.748	.735	4.66	1.51	5.9	6.8	6.9
July	30.02	30.15	29.91	80.1	81.4	93.6	73.6	83.6	100	68	72	71	76	71	.786	.756	4.54	1.81	3.6	6.4	5.8
August	29.91	30.09	29.04	78.5	79.1	89.6	73.2	81.4	95	69	72	72	81	80	.782	.792	10.02	3.62	6.3	7.7	7.4
September	30.00	30.12	29.85	75.3	76.5	87.1	70.7	78.9	96	61	70	70	84	80	.742	.720	6.09	2.13	3.7	3.7	5.0
October	29.97	30.26	29.22	66.7	69.9	79.5	62.3	70.9	88	45	60	61	80	76	.539	.560	4.48	2.99	4.6	3.8	4.9
November	30.08	30.39	29.82	57.7	61.5	70.7	53.3	62.0	84	32	52	55	83	80	.421	.455	1.76	0.94	5.4	4.7	6.0
December	30.20	30.48	29.81	52.8	58.6	67.7	50.0	58.8	77	35	48	50	86	76	.358	.383	3.08	2.19	4.0	4.0	4.9
Year	30.04	30.48	29.04	65.2	68.4	78.7	60.5	69.6	100	24	58	59	80	73	.540	.542	58.23	3.62	4.6	4.8	5.5

JUPITER, FLA.

[λ=26° 57′ N.; ϕ=80° 7′ W.; gravity corr., — 0.05.]

January	30.06	30.33	29.74	57.0	61.0	68.5	51.5	60.0	77	35	52	54	83	78	.406	.430	2.58	1.00	3.2	4.2	4.0
February	30.13	30.33	29.92	68.7	70.6	76.6	63.7	70.2	87	45	63	65	84	82	.598	.621	3.06	2.65	3.1	2.8	4.3
March	30.08	30.32	29.85	67.4	68.4	76.6	59.7	68.2	86	40	61	60	79	76	.550	.540	4.90	3.45	2.8	2.8	3.1
April	30.08	30.29	29.89	74.5	74.3	80.1	67.8	74.0	88	55	68	67	80	79	.677	.669	3.55	2.20	3.2	2.8	3.3
May	29.98	30.15	29.73	77.9	75.9	83.2	69.5	76.4	93	56	71	70	81	83	.769	.740	3.18	1.20	3.8	4.9	4.2
June	30.00	30.16	29.82	81.3	78.9	86.5	72.9	79.7	94	69	75	74	81	85	.858	.841	8.40	3.30	3.7	5.0	5.5
July	30.05	30.13	29.95	83.3	81.3	88.2	74.4	81.3	91	69	76	75	79	82	.900	.878	5.95	2.20	3.0	3.6	3.3
August	29.93	30.08	29.40	82.0	81.4	88.6	73.9	81.2	93	70	76	76	83	84	.897	.897	7.38	4.47	4.3	4.2	6.0
September	30.00	30.09	29.90	80.3	79.4	85.8	73.9	79.8	88	69	74	74	82	84	.850	.842	5.30	1.65	4.9	4.4	4.9
October	29.91	30.16	29.18	76.3	76.9	82.6	72.0	77.3	90	64	72	72	85	84	.773	.778	11.72	4.35	6.1	5.2	6.0
November	30.05	30.28	29.88	69.6	71.4	78.0	67.0	72.5	85	51	66	67	89	86	.648	.665	5.01	3.60	5.0	3.1	3.9
December	30.18	30.37	29.90	65.2	67.4	73.8	62.2	68.0	81	44	60	61	84	80	.538	.554	1.85	0.50	5.4	5.3	4.2
Year	30.04	30.37	29.18	73.6	73.9	80.7	67.4	74.0	94	35	68	68	82	82	.705	.705	60.88	4.47	4.0	4.0	4.4

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

IDAHO FALLS, IDAHO.

[H = 4,742 ft.; h_t = 11 ft.; h_r = 1 ft.; h_a = 45 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.1	NW.	60	SW.	3	12	4	0	1	11	5	3	26	0	1	10	20	7	4	7	0	0	25	0	30	0	0
February	7.7	S.	40	SW.	1	6	4	3	3	14	6	6	14	0	1	3	24	12	10	13	0	0	24	0	28	0	0
March	7.9	S.	36	S.	0	10	3	2	3	15	15	1	13	0	2	4	25	12	8	12	0	1	9	0	31	0	0
April	13.2	SW.	48	SW.	2	9	1	2	3	15	21	4	5	0	1	5	24	6	4	3	2	0	0	0	22	0	0
May	11.8	SW.	48	SW.	1	6	5	3	2	12	19	5	10	0	6	8	17	8	5	0	0	0	0	0	9	0	0
June	12.0	SW.	46	SW.	1	4	3	1	1	14	26	2	9	0	14	13	3	1	1	0	0	0	0	0	0	0	0
July	9.0	SW.	38	SW.	0	8	0	2	1	19	19	3	10	0	20	4	7	0	0	0	0	0	0	10	0	0	0
August	8.2	SW.	40	S.	1	11	5	2	4	10	14	3	13	0	9	14	8	4	3	0	0	0	0	6	0	3	0
September	9.3	SW.	38	S.	0	7	4	1	2	13	22	2	9	0	10	8	12	5	5	1	0	0	0	0	5	1	0
October	10.3	S.	40	S.	1	9	1	0	1	25	14	1	11	0	4	7	20	3	2	0	0	0	0	0	15	0	0
November	8.6	S.	38	SW.	0	3	1	0	3	18	17	0	17	1	3	12	15	8	7	4	0	0	4	0	21	0	0
December	7.5	S.	36	S.	0	5	3	1	4	22	14	4	8	1	3	4	24	8	8	7	0	0	7	0	28	0	0
Year	9.5	SW.	60	SW.	10	90	34	17	28	188	192	34	145	2	74	92	199	74	57	47	2	1	69	16	189	4	0

INDIANAPOLIS, IND.

[H = 766 ft.; h_t = 75 ft.; h_r = 72 ft.; h_a = 87 ft.]

January	7.4	NW.	26	NW.	0	3	0	1	15	2	10	12	18	1	5	7	19	21	12	16	0	3	21	0	30	1	0
February	8.6	W.	28	NW.	0	0	7	3	11	4	5	13	13	0	4	10	14	15	12	6	0	0	8	0	26	1	0
March	8.5	SW.	30	S.	0	3	8	4	9	9	9	9	11	0	9	6	16	11	10	3	0	1	3	0	17	3	0
April	8.9	SW.	34	SE.	0	2	5	7	13	6	10	10	7	0	3	9	18	22	18	3	2	0	0	0	2	8	0
May	7.1	NW.	26	SW.	0	4	5	4	9	3	12	7	18	0	7	14	10	11	10	0	0	0	0	0	0	5	0
June	5.8	SE.	22	SW.	0	6	5	7	14	6	10	2	9	1	9	14	7	12	9	0	0	0	0	1	0	5	0
July	6.0	SW.	23	NW.	0	10	11	3	6	4	15	4	9	0	9	17	5	6	5	0	0	0	0	16	0	3	0
August	5.2	NE.	22	NW.	0	10	13	8	6	3	7	4	10	1	17	8	6	5	3	0	0	0	0	6	0	1	0
September	6.0	NE.	22	NW.	0	1	11	4	10	11	5	3	15	0	15	7	8	12	11	0	0	0	0	5	0	2	0
October	6.1	SE.	31	NW.	0	2	1	5	19	8	6	7	12	1	21	2	8	8	7	0	0	1	0	0	2	2	0
November	6.7	SE.	26	W.	0	6	3	3	13	5	7	11	11	1	11	6	13	10	6	0	0	2	3	0	13	0	0
December	7.7	NW.	27	W.	0	3	0	2	11	12	12	8	13	1	3	15	13	11	8	5	0	0	9	0	24	0	0
Year	7.0	NW.	34	SE.	0	50	69	51	136	74	108	90	146	6	113	115	137	144	111	33	2	7	44	28	114	31	0

JACKSONVILLE, FLA.

[H = 43 ft.; h_t = 69 ft.; h_r = 56 ft.; h_a = 84 ft.]

January	7.9	NW.	34	SW.	0	11	6	2	9	4	9	8	12	1	14	7	10	9	5	0	0	2	0	0	7	1	0
February	8.0	SW.	42	SE.	1	10	11	4	4	2	14	6	4	1	7	11	10	10	8	0	0	1	0	0	0	3	0
March	8.1	NW.	48	SW.	1	7	7	6	3	10	11	6	12	0	12	9	10	15	11	0	0	0	0	0	1	3	0
April	8.0	SE.	45	SW.	1	3	1	4	24	8	9	7	4	0	13	15	2	3	3	0	0	0	0	0	0	5	0
May	8.4	SW.	38	SW.	0	5	6	4	16	5	13	10	3	0	8	15	8	11	8	0	0	0	0	4	0	8	0
June	8.0	SE.	44	SW.	1	6	12	2	16	7	12	4	1	0	3	12	15	13	13	0	0	0	0	11	0	10	0
July	6.3	SW.	36	SE.	0	5	3	5	8	9	17	12	3	0	7	16	8	12	10	0	0	0	0	26	0	17	0
August	7.6	S.	48	SW.	1	5	10	5	12	10	10	2	8	0	2	13	16	19	17	0	0	0	0	14	0	18	0
September	6.2	NE.	26	E.	0	8	11	11	12	8	4	1	3	2	14	7	9	11	8	0	0	0	0	10	0	5	0
October	8.7	NE.	39	NW.	0	24	12	3	4	2	5	4	8	0	12	9	10	10	8	0	0	0	0	0	0	1	0
November	6.7	N.	31	SE.	0	25	7	5	2	8	2	1	9	1	9	8	13	7	4	0	0	0	0	0	0	1	0
December	7.2	NE.	33	W.	0	17	15	0	3	6	5	8	7	1	12	8	11	6	6	0	0	1	0	0	0	0	0
Year	7.6	NE.	48	SW.	5	126	101	51	113	79	111	69	74	6	113	130	122	126	101	0	0	4	0	65	8	72	0

JUPITER, FLA.

[H = 28 ft.; h_t = 13 ft.; h_r = 1 ft.; h_a = 30 ft.]

January	10.3	NW.	33	S.	0	6	4	5	3	3	9	7	25	0	17	8	6	9	7	0	0	0	0	0	0	3	0
February	10.9	S.	29	NE.	0	2	3	13	8	16	3	3	8	0	13	11	4	8	7	0	0	0	0	0	0	2	0
March	10.6	NW.	34	NW.	0	9	2	6	5	13	7	6	14	0	22	7	2	6	6	0	0	0	0	0	0	3	0
April	9.5	SE.	30	N.	0	3	2	14	21	9	4	1	6	0	18	11	1	5	5	0	0	0	0	0	0	4	0
May	8.9	SE.	36	NE.	0	5	4	9	16	13	11	3	1	0	16	12	3	9	9	0	0	0	0	2	0	4	0
June	8.4	SE.	30	SW.	0	1	2	9	21	13	6	6	2	0	12	6	10	14	14	0	0	0	0	5	0	7	0
July	6.8	SE.	29	SE.	0	0	2	7	19	13	12	7	2	0	23	6	2	5	5	0	0	0	0	5	0	8	0
August	8.2	S.	38	W.	0	5	4	3	9	12	12	7	10	0	2	22	7	13	12	0	0	0	0	7	0	7	0
September	8.9	E.	32	S.	0	5	7	17	5	15	3	3	5	0	11	14	5	10	10	0	0	0	0	0	0	0	0
October	13.9	NE.	72	W.	2	10	18	11	1	4	6	3	9	0	8	11	12	15	14	0	0	0	0	0	0	4	0
November	10.4	NW.	33	SE.	0	6	15	8	6	3	5	2	15	0	15	14	1	7	7	0	0	0	0	0	0	1	0
December	11.7	NW.	35	E.	0	3	13	13	5	7	1	3	17	0	15	15	1	8	8	0	0	0	0	0	0	1	0
Year	9.9	S.	72	W.	2	55	76	115	119	121	79	51	114	0	172	139	54	109	104	0	0	0	0	19	0	44	0

a By eye observations at 8 a. m. and 8 p. m., when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

KANSAS CITY, MO.

[λ = 39° 5′ N.; φ = 94° 37′ W.; gravity corr., —0.01.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.04	29.45	28.48	18.5	24.0	30.6	13.5	22.0	49	—2	12	18	73	77	.080	.104	.27	.08	5.0	4.2	5.0
February	29.09	29.82	28.42	22.8	31.1	35.7	18.1	26.9	58	—8	17	22	76	68	.105	.129	1.73	.63	5.8	4.0	5.2
March	28.99	29.56	28.36	33.9	43.9	49.8	30.5	40.2	80	9	27	31	76	62	.159	.184	2.75	1.06	5.5	4.6	4.6
April	28.85	29.22	28.25	47.5	57.3	63.0	44.5	53.8	90	27	38	41	71	58	.249	.280	4.28	1.09	5.3	5.5	5.5
May	28.90	29.15	28.43	56.1	65.4	70.8	52.3	61.6	86	39	48	50	76	62	.346	.380	6.67	2.46	4.8	5.4	5.2
June	28.95	29.24	28.62	67.5	76.4	81.9	63.7	72.8	91	55	61	63	81	66	.548	.592	5.06	1.24	4.8	4.5	5.3
July	28.99	29.21	28.75	71.2	82.9	87.1	68.0	77.6	97	63	64	66	81	58	.611	.648	4.24	1.28	4.3	3.3	4.0
August	29.00	29.26	28.78	66.1	77.3	83.2	63.2	73.2	94	48	59	60	80	55	.515	.521	1.78	.56	3.4	2.7	3.4
September	28.95	29.32	28.49	62.7	75.0	82.4	60.3	71.4	101	42	52	54	68	52	.400	.441	3.48	1.44	3.8	3.4	3.6
October	28.99	29.47	28.54	49.5	62.1	70.3	47.4	58.8	90	32	40	40	70	46	.262	.267	.16	.15	2.5	1.1	2.6
November	29.05	29.36	28.47	34.6	43.7	50.7	31.3	41.0	75	14	25	31	67	62	.144	.182	1.28	.55	3.7	3.0	4.0
December	29.10	29.61	28.58	30.9	37.7	44.6	26.2	35.4	66	2	24	27	76	66	.151	.165	.43	.33	5.2	3.4	5.0
Year	28.99	29.82	28.25	46.8	56.4	62.5	43.2	52.9	101	—8	39	42	75	61	.298	.324	32.13	2.46	4.5	3.8	4.4

KEARNEY, NEBR.

[λ = 40° 41′ N.; φ = 99° 5′ W.; gravity corr., —0.01.]

January	27.69	28.07	27.00	17.9	27.6	36.1	13.5	24.8	56	— 4	12	16	77	61	.079	.091	.16	.06	5.3	4.7	5.7
February	27.72	28.33	27.25	13.5	27.4	35.1	10.6	22.8	58	—18	9	15	83	60	.076	.092	1.10	.40	4.1	4.7	4.7
March	27.65	28.16	27.09	24.6	37.1	44.2	22.0	33.1	85	—5	19	25	79	64	.110	.137	1.37	.69	5.3	6.2	6.3
April	27.57	27.91	26.78	38.2	54.7	60.3	35.2	47.8	80	20	28	26	68	40	.156	.153	.40	.17	5.3	5.2	5.2
May	27.61	27.93	27.06	50.0	65.0	69.3	44.6	57.0	92	32	39	37	70	40	.246	.228	7.49	3.72	4.5	4.3	4.5
June	27.64	27.96	27.39	64.2	77.3	82.9	59.7	71.3	96	48	56	55	76	49	.456	.446	4.99	1.39	3.5	4.3	4.0
July	27.69	27.95	27.36	68.1	80.5	86.4	63.5	75.0	99	56	60	60	76	52	.524	.534	2.89	1.02	4.0	2.8	3.5
August	27.73	27.97	27.47	62.4	76.5	82.5	58.9	70.7	93	46	56	56	80	52	.455	.470	1.37	.44	3.8	3.0	3.3
September	27.65	28.06	27.18	55.4	72.9	80.2	52.8	66.5	97	34	46	45	73	40	.333	.314	1.46	1.46	1.6	2.5	2.6
October	27.69	28.13	27.30	41.1	54.9	65.4	37.5	51.4	86	24	32	35	70	50	.181	.214	.42	.36	2.5	2.8	3.3
November	27.71	28.05	27.27	26.5	39.8	49.7	23.8	36.8	77	4	19	23	72	53	.108	.130	.04	.02	3.7	2.9	3.5
December	27.74	28.22	27.36	22.0	32.2	42.0	18.7	30.4	61	0	17	21	78	63	.093	.116	1.17	.90	5.5	2.9	4.6
Year	27.67	28.33	26.78	40.3	53.8	61.2	36.7	49.0	99	—18	33	34	75	52	.235	.244	22.86	3.72	4.1	3.9	4.3

KEELER, CAL.

[λ = 36° 35′ N.; φ = 117° 50′ W.; gravity corr., — 0.02.]

January	26.39	26.65	25.93	38.6	47.5	52.7	33.5	43.1	58	20	23	22	53	37	.124	.119	.71	.52	2.0	4.0	3.7
February	26.32	26.58	25.96	38.3	50.1	53.6	35.0	44.3	64	26	25	20	58	33	.132	.116	.73	.68	2.9	5.9	5.0
March	26.24	26.58	25.85	42.2	53.3	57.1	38.8	48.0	77	28	28	26	58	37	.152	.144	.84	.73	3.1	6.7	5.4
April	26.24	26.52	25.99	46.2	63.7	66.3	43.8	55.0	76	32	23	19	40	18	.126	.109	.00	.00	2.0	3.0	2.9
May	26.21	26.56	25.89	55.4	75.0	77.8	52.6	65.2	87	42	26	25	32	18	.144	.150	.00	.00	1.3	2.5	2.1
June	26.20	26.38	25.96	64.4	87.0	89.2	62.0	75.6	94	51	29	30	26	14	.160	.173	.00	.00	.1	.4	.4
July	26.24	26.39	26.07	69.4	89.2	91.8	67.2	79.5	101	59	42	42	38	22	.279	.287	.41	.35	.9	2.2	2.0
August	26.25	26.44	26.11	71.9	89.7	92.5	70.0	81.2	97	62	43	45	37	23	.290	.314	.00	.00	1.7	3.8	3.2
September	26.19	26.39	25.90	60.7	77.4	80.4	57.8	69.1	88	46	31	33	34	21	.182	.201	.00	.00	1.8	2.6	2.5
October	26.32	26.53	26.01	52.2	67.2	71.5	48.4	60.0	81	41	26	30	37	26	.143	.167	.00	.00	.7	2.3	2.1
November	26.39	26.68	26.01	42.1	54.1	59.1	38.5	48.8	73	24	22	24	43	32	.115	.134	.12	.10	1.6	1.8	2.2
December	26.44	26.76	26.11	39.1	47.7	54.5	34.6	44.6	72	23	22	24	50	42	.118	.130	.78	.78	2.1	2.9	4.1
Year	26.29	26.76	25.85	51.7	66.8	70.5	48.5	59.5	101	23	28	28	42	27	.164	.170	3.59	.78	1.7	3.2	3.0

KEOKUK, IOWA.

[λ = 40° 22′ N.; φ = 91° 23′ W.; gravity corr., — 0.01.]

January	29.38	29.73	28.90	10.9	16.7	22.5	5.9	14.2	45	—12	7	12	82	79	.063	.080	.92	.36	6.4	5.0	6.1
February	29.47	30.20	28.76	15.6	25.4	30.2	12.4	21.3	49	—12	10	19	77	75	.075	.112	1.76	.62	3.9	5.4	5.0
March	29.35	29.92	28.66	31.5	40.3	44.8	28.5	36.6	78	6	25	31	76	70	.146	.186	2.66	1.35	5.7	5.3	5.6
April	29.22	29.61	28.26	44.7	53.0	58.2	41.6	49.9	85	27	37	42	75	69	.231	.279	5.41	1.60	5.3	6.4	5.9
May	29.25	29.57	28.80	54.3	63.6	69.2	50.5	59.8	85	39	46	48	75	60	.322	.346	4.36	2.14	4.6	4.6	4.9
June	29.31	29.63	28.88	68.8	76.5	82.1	64.5	73.3	92	54	61	64	76	66	.543	.594	2.37	.87	3.9	4.3	4.3
July	29.35	29.55	29.09	72.8	83.0	88.4	68.1	78.2	93	61	64	64	73	54	.591	.610	2.60	1.24	3.5	2.2	3.1
August	29.36	29.62	29.18	65.9	77.1	83.7	60.8	72.2	94	49	56	56	70	52	.459	.471	1.16	.66	1.7	2.4	2.4
September	29.32	29.68	28.93	60.3	71.8	80.3	56.9	68.6	97	37	50	52	69	53	.370	.407	3.18	1.12	3.6	3.0	3.5
October	29.35	29.88	28.86	48.4	59.9	67.7	45.5	56.6	90	27	41	43	74	56	.274	.293	.33	.23	2.2	2.6	2.4
November	29.40	29.76	28.73	31.7	41.3	48.9	28.9	38.9	74	7	25	27	74	58	.143	.153	2.29	1.06	2.4	3.7	3.2
December	29.45	30.08	28.96	25.3	30.6	37.6	20.5	29.0	66	—6	19	24	76	75	.125	.144	.90	.38	4.5	4.8	5.4
Year	29.35	30.20	28.26	44.2	53.3	59.5	40.3	49.9	97	—12	37	40	75	64	.278	.306	27.94	2.14	4.0	4.1	4.3

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

KANSAS CITY, MO.

[H = 963 ft.; h_t = 78 ft.; h_r = 81 ft.; h_a = 95 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	9.0	NW.	36	NW.	0	11	10	2	8	4	8	3	16	0	10	11	10	7	4	5	0	0	15	0	31	0	0
February	9.9	NW.	35	NW.	0	5	4	5	5	8	5	13	11	0	9	9	10	9	5	7	1	0	7	0	25	1	0
March	10.8	SW.	33	SW.	0	6	7	7	4	9	14	1	13	1	13	10	8	9	7	3	0	1	6	0	13	2	0
April	11.1	NE.	34	SW.	0	4	16	3	11	6	9	1	10	0	8	12	10	14	11	0	4	0	0	0	2	12	0
May	7.2	NE.	25	SW.	0	7	10	5	9	8	11	0	11	1	9	13	9	14	11	0	1	1	0	0	0	10	0
June	6.7	SE.	27	S.	0	4	4	8	20	10	3	3	5	3	6	19	5	14	10	0	0	0	0	1	0	14	0
July	7.9	S.	36	NW.	0	5	18	5	15	14	3	1	1	0	13	13	5	12	10	0	1	2	0	9	0	17	0
August	5.9	NE.	25	N.	0	9	22	7	12	6	3	2	1	0	18	9	4	8	7	0	0	2	0	6	0	10	0
September	8.4	NE.	36	SW.	0	7	12	6	10	15	8	0	1	1	16	7	7	8	7	0	0	0	0	10	0	5	0
October	9.9	SW.	28	NW.	0	2	7	3	13	13	9	2	12	1	21	9	1	2	1	0	0	0	0	0	1	0	0
November	8.7	SE.	36	SW.	0	4	2	1	20	12	5	2	14	0	15	10	5	3	3	1	0	3	2	0	17	0	0
December	11.0	S.	38	SW.	0	7	5	3	10	14	10	4	9	0	11	11	9	6	3	2	0	0	5	0	23	0	0
Year	8.9	SE.	38	SW.	0	71	117	55	137	119	88	32	104	7	149	133	83	106	79	18	7	9	35	26	112	71	0

KEARNEY, NEBR.

[H = 2,206 ft.; h_t = 87 ft.; h_r = 82 ft.; h_a = 90 ft.]

January	14.0	NW.	54	NW.	5	6	7	2	11	2	8	5	21	0	9	12	10	5	2	5	0	1	12	0	30	0	0
February	15.1	NW.	60	NW.	6	5	7	3	7	6	3	9	16	0	11	9	8	6	5	6	0	3	9	0	27	0	0
March	14.4	NW.	60	NW.	6	7	14	2	8	2	5	5	19	0	6	11	14	7	4	3	0	4	8	0	25	0	0
April	17.4	NW.	60	N.	12	11	10	3	7	4	4	5	16	0	12	10	8	4	3	1	0	0	0	0	12	1	0
May	14.2	NE.	72	N.	5	7	18	4	14	2	3	8	6	0	11	12	8	10	7	0	2	1	0	1	1	4	0
June	12.0	SE.	44	SE.	3	4	10	3	21	7	6	3	5	1	13	12	5	9	8	0	1	1	0	4	0	12	0
July	9.6	SE.	80	SW.	1	6	11	3	19	9	8	1	4	1	19	7	5	10	8	0	2	0	0	9	0	6	1
August	9.2	S.	56	S.	2	6	6	3	11	17	11	5	1	2	18	9	4	9	8	0	0	0	0	3	0	6	1
September	11.4	S.	36	N.	0	6	10	3	10	18	7	3	3	0	20	7	3	2	2	0	0	1	0	6	0	0	0
October	12.5	W.	48	N.	1	8	3	1	6	10	7	14	13	0	20	6	5	2	2	1	0	0	0	0	7	0	0
November	13.4	NW.	48	N.	3	10	6	0	9	4	7	11	13	0	16	11	3	2	0	2	0	0	4	0	22	0	0
December	12.2	NW.	42	NW.	1	4	3	1	7	5	6	15	20	1	14	10	7	6	4	5	0	3	4	0	30	0	0
Year	13.0	NW.	80	SW.	45	80	105	28	130	86	75	84	137	5	169	116	80	72	53	23	5	14	37	23	154	29	2

KEELER, CAL.

[H = 3,622 ft.; h_t = 7 ft.; h_r = 2 ft.; h_a = 30 ft.]

January	5.6	SW.	45	SW.	2	1	4	10	11	2	14	4	7	9	16	7	8	5	5	0	0	0	0	0	10	0	0
February	8.3	NW.	61	SW.	3	4	2	9	11	3	8	1	12	6	11	5	12	4	2	1	0	1	0	0	8	0	0
March	7.6	SW.	51	SE.	3	8	5	7	7	5	16	6	5	3	10	11	10	6	3	3	0	0	0	0	7	0	0
April	10.4	NW.	50	SE.	3	4	5	7	3	5	12	7	15	2	20	3	7	0	0	0	0	0	0	0	1	0	0
May	9.9	SW.	52	NW.	6	8	7	7	4	2	11	9	13	1	22	5	4	0	0	0	0	0	0	0	0	0	0
June	7.1	SW.	41	SW.	1	5	6	8	4	4	12	14	7	0	29	1	0	0	0	0	0	0	0	17	0	0	0
July	6.5	SW.	37	E.	0	8	12	6	1	5	17	8	5	0	24	3	4	2	2	0	0	0	0	24	0	1	0
August	7.0	SW.	46	NE.	2	9	5	12	3	3	14	6	4	6	17	9	5	0	0	0	0	0	0	25	0	2	0
September	9.1	SW.	59	SW.	3	6	6	9	7	3	12	6	8	3	21	3	6	0	0	0	0	0	0	0	0	0	0
October	5.9	SW.	40	SW.	1	4	5	5	16	3	7	3	5	14	23	4	4	0	0	0	0	0	0	0	0	0	0
November	6.5	NE.	60	NE.	2	4	18	6	2	2	10	7	7	4	23	6	1	2	1	1	0	0	0	0	5	0	0
December	5.1	SE.	36	SW.	0	7	10	9	10	2	11	4	7	2	15	10	6	2	2	2	0	0	0	0	7	0	0
Year	7.4	SW.	61	SW.	26	68	85	95	79	39	144	75	95	50	231	67	67	21	15	7	0	1	0	66	38	3	0

KEOKUK, IOWA.

[H = 613 ft.; h_t = 64 ft.; h_r = 56 ft.; h_a = 78 ft.]

January	7.6	NW.	25	NW.	0	3	6	2	4	4	5	7	30	1	5	16	10	10	5	9	0	0	21	0	31	0	0
February	8.6	W.	35	W.	0	3	1	7	10	3	5	14	13	0	10	8	10	9	7	5	0	0	13	0	27	0	0
March	8.7	W.	34	W.	0	2	6	7	11	2	9	12	11	2	7	14	10	6	5	1	0	2	5	0	20	2	0
April	10.2	SE.	38	NW.	0	4	10	5	13	6	1	9	12	0	11	5	14	16	12	2	1	0	0	0	5	8	0
May	7.6	NW.	36	W.	0	2	8	10	6	6	7	8	15	0	12	12	7	12	11	0	1	0	0	0	0	8	0
June	5.4	NW.	36	NW.	0	5	2	7	12	8	11	2	12	1	12	12	6	10	7	0	0	1	0	0	1	6	0
July	4.9	SW.	36	W.	0	8	1	1	4	14	16	5	10	3	18	12	1	9	7	0	0	0	0	12	0	7	1
August	4.4	N.	22	W.	0	11	10	5	7	4	9	4	9	3	21	9	1	4	4	0	0	0	0	5	0	2	1
September	5.7	SW.	36	W.	0	8	6	6	8	3	12	5	11	1	15	8	7	7	7	0	0	1	0	10	0	3	0
October	7.2	NW.	36	W.	0	2	1	2	15	12	8	4	17	1	21	7	3	4	3	0	0	1	0	0	4	4	0
November	7.7	NW.	32	W.	0	3	0	5	12	6	10	7	14	3	18	7	5	6	6	3	0	3	2	0	9	0	0
December	9.6	NW.	36	NW.	0	4	2	4	4	13	14	7	14	0	7	13	11	10	6	5	0	1	12	0	25	1	0
Year	7.3	NW.	38	NW.	0	55	53	61	106	81	107	84	168	15	157	123	85	103	80	25	2	8	53	28	131	41	2

a By eye observations at 8 a. m. and 8 p. m., when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

KEY WEST, FLA.

[λ = 24° 34′ N.; φ = 81° 49′ W.; gravity corr., −0.05.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	30.09	30.33	29.90	63.1	64.2	68.3	59.9	64.1	78	52	56	57	79	79	.467	.480	2.86	1.17	4.7	3.8	4.9
February	30.14	30.30	29.98	71.6	72.2	76.8	68.4	72.6	82	59	65	65	81	78	.633	.622	.94	.26	5.0	3.0	4.5
March	30.11	30.31	29.87	72.0	71.7	77.4	68.9	73.2	83	56	62	62	73	72	.583	.573	T.	T.	3.7	2.5	3.5
April	30.08	30.24	29.89	76.8	76.1	81.8	73.3	77.6	85	65	68	67	73	75	.674	.673	.56	.54	3.8	2.2	3.8
May	29.99	30.12	29.79	79.7	78.9	84.1	75.5	79.8	89	70	70	71	74	76	.749	.752	2.28	1.48	5.2	4.3	5.3
June	30.01	30.15	29.85	81.9	80.9	86.4	76.9	81.6	89	71	73	73	75	77	.816	.805	2.69	.67	6.8	6.8	6.5
July	30.06	30.12	29.95	83.7	82.7	88.4	78.3	83.4	91	73	73	73	71	73	.812	.813	3.09	1.06	6.3	5.3	5.6
August	29.96	30.10	29.70	84.2	83.7	88.6	79.2	83.9	91	71	74	74	71	72	.829	.825	1.94	.62	6.0	5.7	5.4
September	29.99	30.07	29.92	82.5	82.0	87.5	77.3	82.4	90	69	73	73	74	74	.812	.813	2.23	.49	5.4	3.9	5.1
October	29.93	30.11	29.68	78.7	79.1	82.7	75.6	79.2	88	68	72	72	79	78	.776	.774	3.75	2.15	6.2	4.4	5.3
November	30.06	30.23	29.90	73.7	74.4	78.3	70.9	74.6	83	64	68	68	82	80	.679	.677	.48	.25	5.0	3.2	4.7
December	30.17	30.30	29.93	69.6	70.7	74.4	67.3	70.8	82	56	64	63	81	78	.599	.588	1.18	.59	5.1	3.2	4.8
Year	30.05	30.33	29.68	76.5	76.4	81.2	72.6	76.9	91	52	68	68	76	76	.702	.700	22.00	2.15	5.3	4.0	5.0

KITTY HAWK, N. C.

[λ = 36° 0′ N.; φ = 75° 42′ W.; gravity corr., −0.02.]

January	30.00	30.40	29.34	29.8	32.8	39.0	25.2	32.1	64	9	26	28	85	83	.153	.165	2.62	.73	4.9	2.5	3.8
February	30.15	30.70	29.55	42.2	45.7	52.0	36.2	44.1	74	24	38	42	85	86	.240	.280	2.14	.58	5.2	4.8	6.3
March	30.06	30.47	29.22	43.8	45.4	51.0	38.2	44.6	74	25	39	40	83	82	.252	.263	3.51	1.40	4.8	3.8	5.3
April	30.06	30.35	29.63	56.6	56.6	65.9	49.2	57.6	83	41	50	51	81	82	.383	.387	.96	.46	4.6	3.5	4.3
May	29.93	30.35	29.45	64.1	64.7	72.4	58.3	65.4	88	49	56	57	75	78	.456	.484	5.92	3.02	2.9	3.0	3.1
June	29.99	30.19	29.53	71.6	72.4	77.7	67.0	72.4	92	62	64	66	79	81	.607	.641	2.63	1.10	3.6	3.5	3.6
July	29.98	30.24	29.79	77.6	77.3	84.6	72.5	78.6	95	65	69	69	75	77	.710	.720	1.67	.76	2.5	4.3	2.9
August	29.95	30.12	29.59	75.8	75.8	80.8	71.6	76.2	90	64	70	70	82	82	.735	.734	3.54	1.62	5.1	5.3	5.9
September	30.03	30.18	29.81	71.3	72.1	77.9	67.5	72.7	88	55	65	64	80	77	.628	.623	1.27	.50	4.0	3.0	3.9
October	30.06	30.45	29.36	62.6	63.3	66.9	58.9	62.9	78	47	56	56	79	78	.466	.470	1.01	.38	4.3	3.4	3.9
November	30.08	30.62	29.56	51.7	53.7	58.2	47.7	53.0	72	28	46	47	82	79	.335	.351	2.46	1.71	5.2	4.8	5.4
December	30.18	30.81	29.57	45.3	48.2	54.9	40.2	47.6	70	30	40	40	81	75	.258	.262	1.79	.72	3.4	3.7	3.7
Year	30.04	30.81	29.22	57.7	59.0	65.1	52.7	58.9	95	9	52	52	81	80	.435	.448	29.52	3.02	4.2	3.8	4.3

KNOXVILLE, TENN.

[λ = 35° 56′ N.; φ = 83° 58′ W.; gravity corr., −0.02.]

January	29.01	29.37	28.37	23.8	32.6	38.6	20.7	29.6	65	−10	19	24	83	71	.119	.140	1.56	.51	6.2	4.7	5.5
February	29.12	29.71	28.66	39.5	46.4	51.3	36.6	44.0	70	18	34	33	83	64	.220	.215	7.96	2.11	6.5	5.4	5.9
March	29.06	29.39	28.52	41.3	52.2	58.6	38.0	48.3	79	17	34	35	76	56	.208	.215	2.49	.76	4.2	4.4	4.3
April	29.00	29.22	28.38	56.0	65.9	73.2	51.8	62.5	86	34	46	45	70	51	.325	.327	5.46	2.24	4.4	4.5	4.7
May	28.95	29.34	28.67	59.8	67.8	74.6	54.5	64.6	88	41	52	53	77	62	.399	.418	6.71	1.73	5.0	3.6	4.6
June	29.01	29.21	28.74	69.4	75.6	83.2	63.6	73.4	88	59	62	63	79	66	.570	.580	4.92	1.98	3.1	4.6	4.2
July	29.03	29.22	28.85	73.2	79.6	88.8	68.7	78.8	94	61	68	68	83	68	.681	.678	5.25	1.50	2.9	3.5	3.7
August	28.97	29.11	28.49	69.6	77.2	84.9	65.5	75.2	92	57	64	65	84	67	.611	.620	2.08	.86	3.9	4.5	4.1
September	29.03	29.23	28.83	63.4	72.0	81.1	59.8	70.4	91	46	59	60	85	67	.508	.531	1.45	.56	4.1	3.9	4.3
October	29.07	29.44	28.43	51.2	60.6	70.2	47.5	58.8	84	28	47	49	85	66	.335	.371	1.73	.92	2.7	2.0	2.9
November	29.10	29.47	28.73	41.4	50.7	57.6	38.4	48.0	73	18	36	37	80	60	.222	.238	1.52	.57	5.2	4.7	4.9
December	29.18	29.53	28.63	37.0	43.6	50.7	33.2	42.0	66	21	31	33	78	66	.182	.194	2.49	1.11	5.8	3.3	5.3
Year	29.04	29.71	28.37	52.1	60.4	67.7	48.2	58.0	94	−10	46	47	80	64	.365	.377	43.42	2.24	4.5	4.1	4.5

LA CROSSE, WIS.

[λ = 43° 49′ N.; φ = 91° 15′ W.; gravity corr., 0.]

January	29.23	29.65	28.66	1.6	8.6	14.1	−2.4	5.8	32	−26	−3	2	80	73	.041	.051	1.10	.32	7.3	5.3	6.7
February	29.30	30.07	28.55	8.9	17.9	23.7	4.1	13.9	43	−26	4	12	80	76	.063	.084	1.74	.89	6.1	6.0	6.1
March	29.22	29.77	28.55	21.5	32.3	38.1	19.3	28.7	60	−3	17	25	80	74	.113	.142	1.80	.50	5.9	4.6	5.8
April	29.10	29.47	28.33	37.4	45.2	51.4	35.2	43.3	76	25	30	35	76	69	.171	.206	3.80	.81	7.5	7.6	7.4
May	29.15	29.55	28.93	50.5	60.1	66.6	45.5	56.0	83	33	41	43	70	56	.262	.282	3.14	1.24	5.7	5.4	5.2
June	29.19	29.43	28.91	66.1	75.6	81.9	61.6	71.8	93	54	59	61	78	62	.504	.553	2.31	.85	4.2	3.8	4.2
July	29.21	29.48	28.87	67.5	79.1	85.5	63.5	74.5	96	53	59	62	76	58	.514	.576	3.19	1.12	4.0	2.6	3.3
August	29.25	29.54	29.02	62.1	73.4	82.0	57.5	69.8	96	40	54	57	76	58	.429	.471	1.30	.80	3.0	3.1	3.7
September	29.21	29.62	28.86	53.0	66.6	75.5	49.7	62.6	92	30	47	49	80	54	.345	.370	1.26	.81	3.3	2.3	3.2
October	29.19	29.72	28.42	45.1	53.4	62.5	41.9	52.2	84	19	38	39	76	61	.240	.254	1.60	.70	7.1	4.2	5.7
November	29.23	29.62	28.54	28.1	35.0	43.0	24.5	33.8	72	−5	22	25	76	67	.125	.149	1.37	.52	5.9	3.9	5.8
December	29.28	30.00	28.66	16.0	19.7	26.7	10.2	18.4	52	−15	12	15	81	81	.090	.098	2.03	.49	7.2	6.1	6.6
Year	29.21	30.07	28.33	38.2	47.2	54.2	34.2	44.2	96	−26	32	35	77	66	.241	.270	24.84	1.24	5.6	4.6	5.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

KEY WEST, FLA.

[H = 22 ft.; h_t = 42 ft.; h_r = 44 ft.; h_a = 50 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds. 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	12.2	NE.	48	N.	2	18	14	11	2	2	2	4	7	2	12	13	6	6	4	0	0	4	0	0	0	2	0
February	10.8	E.	32	NW.	0	5	7	24	10	3	3	0	4	0	11	14	3	9	6	0	0	0	0	0	0	2	0
March	11.2	SE.	50	SW.	2	8	7	17	13	5	4	1	6	1	19	9	3	0	0	0	0	0	0	0	0	2	0
April	9.6	E.	24	E.	0	7	4	31	12	2	0	1	3	0	16	12	2	2	1	0	0	0	0	0	0	2	0
May	7.6	SE.	38	NE.	0	5	5	16	22	2	5	1	5	1	7	19	5	8	8	0	0	0	0	0	0	1	0
June	7.6	SE.	29	SW.	0	2	2	16	20	5	8	3	4	0	5	17	8	18	11	0	0	0	0	0	0	4	0
July	6.9	E.	34	E.	0	1	3	33	18	4	0	0	2	1	6	20	5	8	8	0	0	0	0	2	0	13	0
August	7.4	SE.	35	NW.	0	2	3	14	17	4	12	5	4	1	7	18	6	13	11	0	0	0	0	3	0	12	0
September	8.6	E.	28	NE.	0	4	5	31	14	2	2	0	1	1	10	15	5	13	9	0	0	0	0	0	0	5	0
October	12.6	NE.	32	NW.	0	8	28	11	5	0	4	2	4	0	10	13	8	13	9	0	0	0	0	0	0	0	0
November	10.3	NE.	34	NW.	0	9	26	14	2	3	1	0	5	0	12	12	6	7	5	0	0	0	0	0	0	1	0
December	12.5	NE.	38	NW.	0	7	36	8	5	2	0	3	1	0	13	13	5	7	5	0	0	0	0	0	0	2	0
Year	9.8	E.	50	SW.	4	76	140	226	140	34	41	20	46	7	128	175	62	104	77	0	0	4	0	5	0	46	0

KITTY HAWK, N. C.

[H = 9 ft.; h_t = 12 ft.; h_r = 21 ft.; h_a = 30 ft.]

January	13.1	NW.	52	NE.	4	8	5	1	4	6	10	7	20	1	18	6	7	13	9	3	0	0	11	0	23	1	0
February	16.2	SW.	56	SW.	7	8	10	4	3	7	12	4	8	0	9	3	16	14	9	0	0	0	6	0	5	0	0
March	16.7	N.	60	N.	8	18	10	0	6	12	8	3	5	0	14	4	13	13	8	1	0	4	0	0	4	2	0
April	16.9	SW.	42	NE.	2	3	12	4	12	6	20	1	2	0	14	9	7	9	6	0	0	1	0	0	0	5	0
May	15.1	SW.	52	S.	1	2	12	5	7	6	15	10	5	0	20	5	6	9	7	0	0	0	0	0	0	4	0
June	13.0	NE.	40	NW.	1	8	16	6	5	1	13	8	3	0	20	4	6	5	5	0	0	0	1	0	0	7	0
July	11.3	SW.	34	SW.	0	3	8	10	5	5	14	10	7	0	22	4	5	7	5	0	0	0	0	6	0	11	0
August	14.2	NE.	70	NE.	3	5	15	8	9	4	13	4	4	0	9	7	15	12	10	0	0	0	0	0	0	3	0
September	14.9	SW.	42	NW.	1	6	8	11	3	3	19	2	8	0	18	3	9	11	8	0	0	0	0	0	0	1	0
October	17.5	NE.	58	SE.	6	5	23	8	8	5	3	1	8	1	17	7	7	6	5	0	0	0	0	0	0	0	0
November	17.5	NE.	58	NE.	5	10	16	3	4	3	14	1	9	0	13	4	13	11	7	0	0	2	0	0	1	0	0
December	15.7	SW.	60	N.	5	7	10	3	1	2	19	11	9	0	19	4	8	9	7	0	0	1	0	0	2	0	0
Year	15.2	SW.	70	NE.	43	83	145	63	67	60	160	62	88	2	193	60	112	119	86	4	0	14	11	7	35	34	0

KNOXVILLE, TENN.

[H = 980 ft.; h_t = 80 ft.; h_r = 71 ft.; h_a = 88 ft.]

January	5.1	W.	30	W.	0	4	10	10	0	2	1	17	9	9	11	8	12	9	6	6	0	1	11	0	24	0	0
February	6.7	W.	33	W.	0	11	9	6	0	3	5	16	4	2	7	11	10	17	13	0	0	0	0	0	9	3	0
March	6.1	W.	28	N.	0	8	7	9	0	3	12	13	4	6	14	8	9	10	6	0	0	0	1	0	7	0	0
April	8.0	SW.	38	SW.	0	8	5	7	1	1	17	17	1	3	10	14	6	15	14	0	0	0	0	0	0	4	0
May	5.3	SW.	32	W.	0	6	6	8	3	2	16	16	4	1	13	11	7	15	13	0	0	0	0	0	0	2	0
June	4.1	E.	31	SW.	0	6	7	22	2	5	9	9	0	0	14	9	7	13	11	0	0	0	0	0	0	7	0
July	3.9	SW.	36	W.	0	3	9	10	0	2	22	13	2	1	14	14	3	14	13	0	1	0	0	15	0	8	0
August	4.3	NE.	24	N.	0	10	20	12	1	6	8	3	1	1	14	11	6	9	5	0	0	1	0	2	0	0	0
September	4.2	E.	18	E.	0	15	6	20	0	2	10	1	0	0	14	7	9	10	8	0	0	1	0	1	0	1	0
October	4.1	NE.	23	NW.	0	13	16	10	1	2	0	7	3	10	21	5	5	7	7	0	0	3	0	0	2	1	0
November	4.9	NE.	32	SW.	0	8	16	4	1	1	9	6	4	11	12	7	11	9	7	0	0	0	0	0	9	0	0
December	5.5	NE.	31	SW.	0	7	20	1	0	2	13	10	1	8	13	4	14	10	8	0	0	1	0	0	13	1	0
Year	5.2	SW.	38	SW.	0	99	131	119	9	31	122	128	33	58	157	109	99	138	111	6	1	7	12	18	64	27	0

LA CROSSE, WIS.

[H = 720 ft.; h_t = 70 ft.; h_r = 61 ft.; h_a = 78 ft.]

January	6.3	N.	36	N.	0	15	1	0	2	14	5	12	10	3	7	9	15	12	7	13	0	0	30	0	31	0	0
February	7.6	W.	32	W.	0	3	4	2	7	10	4	17	7	2	8	9	11	9	7	8	0	0	22	0	28	0	0
March	7.4	S.	36	N.	0	10	6	2	5	12	6	7	11	3	9	12	10	11	8	6	1	0	7	0	26	2	0
April	10.1	NW.	33	NE.	0	4	8	5	7	6	3	11	12	4	4	9	17	18	15	3	0	0	0	0	11	4	0
May	8.0	N.	36	NE.	0	12	4	2	8	8	3	11	11	3	8	15	8	11	11	1	1	0	0	0	1	0	0
June	6.7	S.	28	S.	0	4	2	3	8	22	5	7	6	3	12	14	4	7	6	0	0	1	0	3	0	5	0
July	5.8	S.	26	NW.	0	3	1	2	5	17	4	10	13	7	18	11	2	10	6	0	0	1	0	4	0	6	1
August	6.0	S.	22	W.	0	9	2	4	6	23	5	6	7	0	13	17	1	5	5	0	0	0	0	3	0	1	3
September	6.9	S.	40	W.	1	8	3	4	12	15	2	6	6	4	19	7	4	4	4	0	0	1	0	1	3	1	0
October	8.8	SE.	36	NW.	0	4	0	0	17	12	2	10	15	2	9	11	11	6	6	0	0	1	0	0	6	3	0
November	8.2	SE.	27	NW.	0	4	0	0	17	11	4	13	9	2	8	12	10	7	4	6	0	1	8	0	19	0	1
December	7.5	N.	42	W.	1	11	2	5	10	11	1	11	9	2	6	11	14	10	9	10	0	0	19	0	30	0	0
Year	7.4	S.	42	W.	2	87	33	29	104	161	44	121	116	35	121	137	107	110	88	47	2	5	86	11	154	23	5

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

LANDER, WYO.

[λ=42° 50′ N.; φ=108° 45′ W.; gravity corr., —0.01.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	3 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	24.58	25.00	23.92	18.6	28.9	40.3	12.5	26.4	55	—5	9	14	65	54	.066	.082	.02	.02	1.8	3.9	2.9
February	24.53	24.92	24.16	10.4	24.9	33.3	5.0	19.2	48	—19	2	11	68	56	.051	.077	1.64	.70	3.7	5.0	4.2
March	24.50	24.90	24.05	18.1	35.5	42.0	15.5	28.8	70	—6	11	17	72	50	.075	.095	1.34	.69	4.8	4.7	4.7
April	24.51	24.72	24.09	28.1	44.0	49.6	24.5	37.0	66	2	19	18	69	40	.104	.106	2.14	.74	5.5	5.2	5.1
May	24.56	24.97	24.17	40.2	58.4	63.1	34.9	49.0	83	26	29	22	66	32	.158	.126	1.57	.67	3.3	4.8	4.0
June	24.60	24.84	24.26	51.1	74.0	77.2	43.0	60.1	88	32	36	28	59	21	.215	.155	1.05	.92	2.0	2.3	2.2
July	24.67	24.89	24.42	56.1	80.7	85.2	48.7	67.0	95	38	40	36	56	21	.254	.219	.12	.10	2.1	4.1	2.8
August	24.69	24.96	24.52	50.5	75.5	81.8	45.8	63.8	91	33	38	39	64	30	.234	.237	.92	.75	2.2	4.5	3.5
September	24.60	25.00	24.19	40.9	65.4	72.7	37.1	54.9	84	21	29	30	64	29	.161	.179	.29	.29	2.2	3.1	2.5
October	24.63	24.98	24.28	31.6	48.3	59.5	27.5	43.5	74	16	20	24	63	40	.107	.127	.56	.41	3.0	3.3	3.0
November	24.61	25.04	24.22	20.9	32.0	44.9	14.2	29.6	63	—5	13	18	72	56	.085	.097	.57	.33	3.8	3.3	3.6
December	24.61	24.99	24.27	18.7	27.4	40.3	13.4	26.8	56	—8	12	16	71	62	.079	.096	.76	.54	2.4	2.5	2.6
Year	24.59	25.04	23.92	32.1	49.6	57.5	26.8	42.2	95	—19	22	23	66	41	.132	.132	10.98	.92	3.1	3.9	3.4

LEAVENWORTH, KANS.

[λ=39° 19′ N.; φ=94° 57′ W.; gravity corr., —0.01.]

January	29.17	29.60	28.69	17.3	23.2	30.5	13.1	21.8	50	—2	13	16	81	72	.082	.093	.10	.04	7.1	3.3	5.9
February	29.22	29.97	28.59	24.5	29.6	35.5	17.8	26.6	58	—8	16	20	80	67	.101	.116	1.69	1.02	6.3	4.0	6.0
March	29.11	29.71	28.44	33.0	43.0	49.6	30.0	39.8	79	10	27	31	78	62	.159	.183	2.67	.88	5.9	5.7	6.0
April	28.97	29.30	28.37	46.4	57.1	62.8	43.9	53.4	91	28	39	40	77	56	.254	.272	3.85	1.65	6.1	6.2	6.7
May	29.01	29.26	28.52	54.7	65.8	70.9	51.3	61.1	87	37	47	48	77	56	.335	.347	5.82	2.73	5.3	5.6	6.1
June	29.06	29.36	28.75	66.6	77.2	82.8	63.6	73.2	92	52	60	64	78	64	.516	.596	5.64	1.41	5.1	5.1	5.9
July	29.10	29.34	28.84	71.0	82.8	87.9	68.0	78.0	96	62	63	66	77	59	.579	.649	6.92	1.75	4.5	3.9	5.0
August	29.12	29.39	28.89	65.0	77.4	83.1	62.5	72.8	94	46	58	62	78	59	.489	.563	3.01	.98	4.4	3.9	5.1
September	29.07	29.45	28.62	61.5	74.1	82.0	59.0	70.5	100	40	53	54	74	54	.416	.447	4.62	2.31	4.3	3.9	4.5
October	29.11	29.60	28.68	48.6	60.7	70.2	46.2	58.2	90	30	40	40	72	47	.265	.261	.48	.35	2.5	1.9	3.3
November																					
December																					
Year																					

LEXINGTON, KY.

[λ=38° 2′ N.; φ=84° 33′ W.; gravity corr., —0.02.]

January	28.92	29.29	28.20	19.0	25.6	31.2	15.0	23.1	62	—11	15	18	83	72	.102	.117	2.10	.76	6.9	5.9	6.4
February	29.04	29.71	28.60	33.1	38.9	45.4	27.6	36.5	67	9	27	29	78	68	.163	.174	4.44	1.21	8.1	6.4	6.8
March	28.98	29.41	28.47	38.9	46.8	52.4	34.0	43.2	77	10	31	32	74	58	.191	.197	3.30	1.18	6.8	5.5	5.7
April	28.90	29.16	28.22	53.9	58.7	64.8	48.6	56.7	84	32	43	44	69	61	.298	.313	5.81	1.12	7.1	6.5	6.9
May	28.89	29.24	28.64	58.7	63.7	69.3	52.9	61.1	84	42	50	51	73	65	.370	.387	3.88	.83	5.6	5.4	5.9
June	28.96	29.21	28.71	71.1	74.1	80.8	63.9	72.4	88	57	62	62	75	67	.569	.562	4.24	1.17	4.7	5.1	5.7
July	28.98	29.12	28.78	75.9	78.9	88.3	68.8	78.6	95	60	66	65	72	63	.643	.615	3.11	1.13	3.7	6.0	5.0
August	28.95	29.13	28.60	69.6	76.1	84.3	63.6	74.0	91	56	60	60	74	59	.536	.528	1.86	.82	4.2	4.5	4.2
September	28.98	29.23	28.76	63.9	70.5	80.2	60.3	70.2	91	43	54	53	71	57	.436	.437	2.25	.69	5.7	4.0	5.3
October	29.02	29.38	28.41	51.1	58.7	66.9	47.7	57.3	85	27	45	44	80	60	.315	.311	5.59	2.32	3.9	2.7	4.0
November	29.03	29.44	28.51	37.6	44.2	50.7	34.8	42.8	70	14	32	34	79	68	.191	.213	3.36	1.04	5.9	5.5	4.6
December	29.10	29.60	28.57	32.9	38.2	45.1	29.0	37.0	66	14	28	29	81	70	.163	.168	2.61	1.30	7.2	5.7	5.9
Year	28.98	29.71	28.20	50.5	56.2	63.3	45.5	54.4	95	—11	43	43	76	64	.331	.335	42.55	2.32	5.8	5.3	5.5

LITTLE ROCK, ARK.

[λ=34° 45′ N.; φ=92° 6′ W.; gravity corr., —0.03.]

January	29.78	30.20	29.38	32.2	43.2	49.0	30.2	39.6	70	11	25	31	75	62	.145	.185	.83	.78	3.9	3.0	3.6
February	29.82	30.50	29.41	38.4	45.4	51.8	33.3	42.6	71	19	32	33	77	66	.195	.197	5.48	2.47	6.0	6.6	6.5
March	29.76	30.22	29.22	44.8	55.6	59.8	41.4	50.6	80	16	35	36	69	51	.222	.233	4.47	1.96	4.3	5.1	5.1
April	29.62	29.96	29.09	59.7	69.7	74.7	55.6	65.2	87	36	51	52	75	56	.406	.421	5.83	1.95	5.7	4.9	5.5
May	29.62	29.90	29.22	63.6	72.8	77.1	59.5	68.3	90	50	56	58	77	61	.464	.491	13.25	4.03	4.4	4.8	4.7
June	29.66	29.94	29.37	72.3	79.4	85.0	68.0	76.5	94	59	66	67	80	68	.638	.675	4.76	1.96	5.2	3.8	5.2
July	29.71	29.84	29.57	75.8	83.5	90.0	72.0	81.0	97	66	70	70	83	65	.739	.740	2.32	1.18	3.4	3.6	4.8
August	29.66	29.85	29.54	71.9	81.0	86.9	69.0	78.0	94	60	65	64	79	58	.626	.610	2.32	.75	3.7	4.1	4.3
September	29.67	29.98	29.34	67.3	76.8	84.6	64.2	74.4	98	42	60	61	78	60	.534	.546	2.18	.82	3.4	3.1	3.9
October	29.77	30.18	29.35	52.0	65.3	73.0	48.3	60.6	87	37	46	47	80	52	.326	.338	1.58	.73	1.6	1.1	1.7
November	29.79	30.16	29.37	42.7	53.2	59.6	40.5	50.0	78	24	38	38	82	57	.238	.242	3.79	1.92	4.0	2.5	4.9
December	29.90	30.33	29.32	40.5	49.2	54.9	37.6	46.2	69	18	32	34	72	58	.199	.215	1.67	1.34	5.4	3.2	5.5
Year	29.73	30.50	29.09	55.1	64.6	70.5	51.6	61.1	98	11	48	49	77	60	.394	.406	48.48	4.03	4.2	3.8	4.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

LANDER, WYO.

[H = 5,377 ft.; h_t = 16 ft.; h_r = 16 ft.; h_a = 34 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	5.3	SW.	48	SW.	2	3	4	6	3	9	18	8	7	4	16	15	0	1	0	0	0	0	9	0	31	0	0
February	4.8	SW.	55	SW.	2	4	4	7	0	2	17	15	3	4	12	11	5	8	3	8	0	0	13	0	28	0	0
March	4.6	SW.	38	W.	0	4	1	8	3	11	22	10	2	1	11	14	6	5	5	5	0	0	5	0	29	0	0
April	6.3	SW.	48	SW.	1	3	4	4	4	4	23	10	8	0	12	9	9	9	6	9	0	0	0	0	26	0	0
May	6.0	W.	33	W.	0	3	2	7	6	5	10	18	6	5	17	8	6	9	6	3	0	0	0	0	10	0	0
June	6.1	W.	30	S.	0	3	1	6	1	6	14	16	10	3	21	4	2	3	3	0	0	0	0	0	0	0	0
July	4.9	W.	39	SW.	0	9	3	5	0	7	13	13	8	4	20	10	1	2	1	0	0	0	5	0	0	2	0
August	4.3	SW.	37	W.	0	13	2	5	5	2	17	9	9	0	17	12	2	5	4	0	0	0	3	0	1	1	1
September	5.8	SW.	48	SW.	1	3	4	2	5	6	22	10	8	0	23	6	1	1	1	0	0	0	8	0	8	1	0
October	5.2	SW.	39	W.	0	4	4	6	4	4	25	10	5	0	17	14	0	3	3	2	0	0	0	0	27	0	0
November	4.7	W.	50	W.	3	6	2	5	2	8	13	14	9	1	14	16	0	4	4	4	0	0	5	0	30	0	1
December	4.6	SW.	42	SW.	1	4	1	5	4	10	20	12	6	0	25	4	2	3	3	2	0	0	5	0	31	0	0
Year	5.2	SW.	55	SW.	10	59	32	66	37	74	214	145	81	22	208	123	34	53	39	33	0	0	37	8	220	4	2

LEAVENWORTH, KANS.

[H = 857 ft.; h_t = 95 ft.; h_r = 86 ft.; h_a = 100 ft.]

January	9.9	NW.	42	NW.	3	13	2	8	1	8	7	2	21	0	7	14	10	4	0	4	0	0	15	0	30	0	0
February	11.0	NW.	39	NW.	0	3	3	5	12	3	5	4	20	1	6	11	11	7	5	5	0	0	8	0	24	0	0
March	12.0	S.	42	NW.	3	6	5	10	3	17	3	5	13	0	10	9	12	9	5	3	0	1	5	0	16	1	0
April	13.9	NW.	50	NW.	5	8	9	9	7	8	4	4	11	0	6	9	15	12	10	0	0	0	1	2	7	0	0
May	10.2	E.	45	NW.	1	8	3	13	9	8	5	8	8	0	6	12	13	9	8	0	0	0	0	0	6	0	0
June	7.5	SE.	45	SW.	2	6	4	8	20	16	2	0	4	0	8	13	9	13	11	0	0	0	2	0	7	0	0
July	7.9	E.	48	SW.	3	5	9	17	8	17	4	1	1	0	14	7	10	10	10	0	0	2	0	11	0	10	0
August	5.3	E.	30	SW.	0	9	7	18	14	2	7	1	3	1	12	14	5	6	5	0	0	1	0	5	0	6	0
September	7.8	S.	45	S.	2	8	6	11	9	12	11	1	2	0	15	6	9	9	7	0	0	0	0	9	0	1	0
October	10.6	S.	36	NW.	0	3	2	1	8	21	4	6	16	1	16	13	2	2	2	0	0	1	0	0	2	0	0
November																											
December																											
Year																											

LEXINGTON, KY.

[H = 980 ft.; h_t = 75 ft.; h_r = 2 ft.; h_a = 122 ft.]

January	13.9	NW.	49	NW.	3	0	5	2	8	9	13	7	18	0	8	10	13	14	9	12	1	0	19	0	28	0	0
February	16.1	NW.	60	W.	8	1	9	5	7	5	9	7	13	0	7	6	15	16	13	4	0	0	4	0	18	2	0
March	15.1	SW.	48	SW.	6	4	3	3	7	12	16	6	11	0	9	9	13	11	11	4	0	0	2	0	12	1	0
April	15.5	SW.	60	W.	9	3	6	3	7	10	14	9	8	0	6	10	14	18	16	0	1	0	0	0	0	8	0
May	12.0	SW.	48	SW.	2	0	7	4	8	2	27	2	12	0	7	15	9	17	13	0	0	0	0	0	0	5	0
June	9.7	SW.	46	SW.	1	1	13	1	8	2	24	1	9	1	7	16	7	13	9	0	0	0	0	0	0	9	0
July	9.6	SW.	44	NW.	1	1	11	2	6	2	28	1	11	0	9	18	4	6	7	0	0	0	0	13	0	12	1
August	9.5	NE.	36	SE.	0	2	21	5	7	1	17	0	8	1	15	14	2	7	7	0	0	0	0	2	0	5	0
September	10.8	SW.	34	SE.	0	0	13	1	9	1	27	0	9	0	12	8	10	12	7	0	0	0	0	3	0	5	0
October	10.3	SE.	48	NW.	3	2	9	2	17	4	15	4	9	0	17	9	5	8	5	0	0	0	0	0	2	2	0
November	13.3	SW.	56	SW.	2	0	13	2	9	5	19	1	11	0	15	7	8	10	8	0	0	0	2	0	8	1	0
December	15.2	SW.	50	SW.	4	1	5	2	6	4	25	1	18	0	13	5	13	11	7	2	0	0	2	0	23	0	0
Year	12.6	SW.	60	W.	39	15	115	32	99	57	234	30	137	2	125	127	113	146	112	22	2	0	29	18	91	50	1

LITTLE ROCK, ARK.

[H = 302 ft.; h_t = 72 ft.; h_r = 62 ft.; h_a = 79 ft.]

January	8.3	SW.	36	NW.	0	11	1	4	5	6	14	12	6	3	18	7	6	3	3	2	0	0	3	0	17	0	0
February	9.4	N.	33	W.	0	12	8	6	5	5	5	11	3	1	7	7	14	13	11	2	1	1	2	0	10	5	0
March	9.1	E.	37	S. W.	0	2	3	12	12	9	7	7	9	1	12	7	12	9	7	0	0	2	0	0	5	3	0
April	9.0	S.	44	S.	1	0	6	5	12	21	7	7	1	1	11	7	12	10	7	0	2	1	0	0	0	7	0
May	7.4	SE.	50	NE.	2	3	7	6	14	11	5	11	5	0	13	8	10	14	13	0	1	0	0	0	0	8	0
June	5.8	NE.	54	N.	2	6	11	8	9	7	8	4	7	0	10	12	8	10	8	0	0	0	0	4	0	8	0
July	5.4	SW.	40	NE.	1	1	5	12	10	9	16	4	5	0	11	13	7	7	6	0	0	0	0	16	0	11	0
August	5.5	NW.	34	NE.	0	4	10	5	5	5	9	6	16	2	16	10	5	11	9	0	0	1	0	7	0	6	0
September	7.1	SE.	28	NW.	0	10	6	6	14	6	7	2	9	0	17	5	8	9	8	0	0	1	0	10	0	5	0
October	6.2	W.	35	NW.	0	2	8	2	13	7	4	14	10	2	26	3	2	4	4	0	0	0	0	0	0	3	0
November	7.2	NW.	28	SE.	0	7	2	8	4	7	7	4	21	0	11	12	7	7	6	0	0	3	0	0	4	0	0
December	7.8	NW.	40	NW.	1	4	8	3	9	10	8	7	13	0	12	8	11	9	4	0	0	0	0	0	5	1	0
Year	7.4	SE.	54	N.	7	62	75	77	112	103	97	89	105	10	164	99	102	106	86	4	4	9	5	37	41	57	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

LOS ANGELES, CAL.

[λ = 34° 3′ N.; ϕ = 118° 15′ W.; gravity corr., —0.03.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.69	29.87	29.49	49.2	59.1	69.6	44.9	57.2	84	35	38	48	68	70	.233	.341	6.29	3.29	2.9	2.6	3.7
February	29.71	29.89	29.40	48.6	58.2	65.5	44.6	55.0	79	38	40	48	75	71	.257	.342	2.27	1.33	3.3	3.3	4.2
March	29.68	29.94	29.33	47.7	56.7	62.6	44.4	53.5	88	31	43	48	84	74	.279	.339	8.52	2.51	4.4	4.9	5.6
April	29.67	29.85	29.53	49.4	62.1	68.7	47.0	57.8	84	39	43	48	80	62	.283	.332	.19	.19	2.7	1.5	2.7
May	29.59	29.74	29.39	54.1	65.3	73.0	52.2	62.6	90	45	49	52	85	64	.352	.386	.06	.06	5.5	2.7	4.5
June	29.54	29.68	29.35	55.3	70.3	78.5	53.7	66.1	90	48	52	55	89	60	.389	.441	.03	.03	2.1	.1	2.6
July	29.55	29.68	29.39	58.6	72.7	81.9	57.2	69.6	89	50	56	58	92	61	.453	.484	.00	.00	1.8	.7	3.5
August	29.54	29.66	29.44	61.5	73.4	83.1	59.8	71.4	92	54	58	59	91	63	.490	.508	.00	.00	4.4	.2	3.2
September	29.55	29.66	29.43	57.4	67.9	77.5	54.7	66.1	90	48	53	57	86	68	.409	.402	T.	T.	4.9	.7	3.3
October	29.66	29.83	29.51	54.6	64.0	75.4	51.5	63.4	91	46	47	52	78	68	.329	.395	.75	.39	4.1	1.5	3.5
November	29.73	29.91	29.43	49.9	58.0	68.9	45.7	57.3	86	39	41	48	76	72	.269	.337	.20	.14	3.2	2.3	3.9
December	29.77	29.98	29.54	51.8	59.5	69.2	46.6	57.9	88	37	37	44	63	63	.232	.300	3.65	1.82	3.1	3.2	3.8
Year	29.64	29.98	29.33	53.2	63.9	72.8	50.2	61.5	92	31	46	51	81	66	.331	.389	21.96	3.29	3.5	2.0	3.7

LOUISVILLE, KY.

[λ = 38° 15′ N.; ϕ = 85° 45′ W.; gravity corr., —0.02.]

January	29.47	29.84	28.73	29.2	27.6	33.4	16.4	24.9	64	—10	14	20	75	71	.093	.122	2.57	1.58	6 8	5.4	6.4
February	29.58	30.28	29.07	32.2	38.7	45.2	27.3	36.2	60	3	26	29	75	68	.152	.172	4.58	1.02	7.6	4.9	6.6
March	29.50	29.98	28.91	39.9	48.5	54.4	35.9	45.2	78	14	33	35	74	61	.203	.218	2.38	.73	5.9	4.5	6.1
April	29.40	29.69	28.58	53.2	59.6	66.7	48.0	57.4	83	33	44	46	71	64	.306	.336	7.09	1.43	7.2	5.4	7.1
May	29.38	29.71	29.11	59.2	66.3	72.5	54.1	63.3	88	43	49	51	70	60	.358	.386	4.19	1.56	5.6	5.4	6.0
June	29.44	29.73	29.14	70.3	77.2	84.3	64.8	74.6	94	56	60	61	70	59	.520	.541	4.56	1.35	4.8	4.3	5.0
July	29.46	29.60	29.24	75.8	84.1	91.1	70.4	80.8	97	64	62	64	64	51	.572	.592	1.52	.65	3.1	4.2	4.6
August	29.43	29.62	29.14	69.3	80.0	87.8	65.5	76.6	95	57	55	56	62	46	.447	.466	1.68	1.50	2.4	3.1	3.2
September	29.47	29.77	29.23	64.3	73.6	82.0	61.5	71.8	95	44	51	54	64	54	.404	.445	4.00	1.12	5.1	4.0	4.8
October	26.52	29.91	28.99	50.4	60.7	68.7	47.8	58.2	86	28	43	46	76	59	.298	.332	5.10	2.63	2.9	2.8	3.2
November	29.54	29.96	28.98	38.8	47.1	52.5	36.4	44.4	72	12	30	34	69	61	.175	.211	3.22	1.14	5.1	3.6	5.3
December	29.62	30.17	29.05	34.0	41.3	45.7	31.5	38.6	68	13	24	28	65	59	.142	.162	2.44	1.28	6.9	5.2	5.9
Year	29.48	30.28	28.58	50.6	58.7	65.4	46.6	56.0	97	—10	41	44	70	59	.306	.332	43.93	2.63	5.3	4.4	5.4

LYNCHBURG, VA.

[λ = 37° 25′ N.; ϕ = 79° 9′ W.; gravity corr. —0.02.]

January	29.28	29.65	28.59	29.1	28.6	35.9	17.4	26.6	64	— 6	14	22	76	77	.092	.136	1.99	1.18	5.8	2.9	4.9
February	29.43	30.00	28.72	35.0	40.7	47.3	31.4	39.4	68	18	29	35	79	81	.168	.215	5.43	1.92	6.4	5.2	6.2
March	29.34	29.81	28.75	39.3	48.2	55.4	35.4	45.4	77	24	32	38	74	70	.184	.245	1.03	0.71	5.5	4.4	5.3
April	29.32	29.64	28.64	53.2	60 1	67.7	47.1	57.4	87	33	43	47	69	63	.292	.336	3.42	1.03	5.6	4.5	5.7
May	29.22	29.66	28.80	61.2	66.4	75.3	53.9	64.6	89	46	53	55	75	70	.408	.448	5.15	2.36	4.9	6.2	5.9
June	29.32	29.58	28.98	70.9	73.6	83.0	64.1	73.6	92	57	63	65	76	76	.575	.616	3.81	0.59	5.2	5.7	5.8
July	29.30	29.53	29.10	75.4	80.1	90.4	67.3	78.8	97	58	66	67	74	67	.657	.674	4.81	2.45	3.1	4.4	4.1
August	29.28	29.47	28.63	70.0	74.6	83.6	65.0	74.3	93	53	65	69	85	82	.623	.705	8.65	2.89	4.7	5.1	5.3
September	29.36	29.60	29.09	62.6	67.5	76.7	58.1	67.4	89	41	58	63	87	85	.503	.588	8.61	2.85	5.6	5.0	5.2
October	29.39	29.80	28.17	51.0	56.5	66.2	47.2	56.7	84	28	48	51	89	84	.346	.398	8.17	2.41	4.4	3.8	4.4
November	29.42	29.96	29.05	38.8	45.6	55.2	35.3	45.2	75	16	33	36	80	70	.198	.224	1.41	0.78	5.4	3.9	5.0
December	29.46	30.09	28.94	35.6	42.3	52.1	31.5	41.8	70	20	28	32	73	67	.161	.186	2.12	0.90	5.1	3.6	5.0
Year	29.34	30.09	28.17	51.1	57.0	65.7	46.1	55.9	97	— 6	44	48	78	74	.351	.398	54.60	2.89	5.1	4.6	5.2

MANCHESTER, N. H.

[λ = 42° 58′ N.; ϕ = 71° 28′ W; gravity corr., 0.]

January	29.65	30.31	28.80	12.2	16.1	24.0	6.9	15.4	52	—9	7	8	77	70	.063	.067	2.30	1.10	5.4	4.0	5.0
February	29.78	30.49	28.56	19.0	22.8	29.5	12.8	21.2	51	—6	12	14	75	68	.085	.086	5.18	1.20	5.5	5.0	5.6
March	29.75	30.32	29.19	28.1	31.8	38.5	21.6	30.0	52	6	18	21	65	62	.105	.117	2.46	1.20	5.3	4.3	5.0
April	29.70	30.33	29.18	39.0	42.0	50.1	31.6	40.8	66	17	25	27	59	58	.139	.153	1.79	.52	6.0	5.9	5.9
May	29.61	30.02	29.09	54.2	56.0	65.9	44.7	55.3	92	33	41	41	65	61	.266	.265	4.46	1.35	5.6	5.4	5.7
June	29.75	30.03	29.50	64.9	64.9	76.3	55.6	66.0	92	46	54	56	70	74	.429	.462	1.61	.63	5.3	5.8	5.5
July	29.64	29.90	29.33	69.0	69.4	81.2	57.1	69.2	91	48	55	56	61	64	.433	.462	1.61	.50	2.9	4.5	3.7
August	29.70	30.00	29.21	66.3	67.4	78.3	58.5	68.4	96	48	58	59	75	76	.485	.516	3.99	.90	4.1	4.1	4.6
September	29.75	30.11	29.36	54.6	56.5	66.9	46.2	56.6	79	35	46	48	72	74	.318	.346	2.25	1.04	3.6	4.2	4.4
October	29.84	30.34	29.15	48.9	50.7	63.0	41.8	52.4	78	23	41	41	75	70	.273	.273	3.22	1.55	3.4	3.8	3.8
November																					
December																					
Year																					

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

LOS ANGELES, CAL.

[H = 330 ft.; h_t = 74 ft.; h_r = 66 ft.; h_a = 76 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.(a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 80°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	3.2	NW.	23	E.	0	7	17	4	0	1	2	10	19	2	17	7	7	7	4	0	0	2	0	0	0	0	0
February	4.0	NE.	28	N.	0	5	18	5	2	0	2	16	8	0	13	10	5	5	4	0	0	2	0	0	0	0	0
March	4.2	NE.	24	E.	0	2	18	7	0	4	5	17	8	1	8	13	10	12	11	0	0	2	0	0	1	0	0
April	4.2	W.	28	N.	0	4	14	5	2	1	4	26	2	2	19	9	2	1	1	0	0	0	0	0	0	0	0
May	4.1	W.	14	W.	0	1	10	4	10	2	9	22	3	1	10	14	7	1	1	0	0	3	0	1	0	1	0
June	3.7	W.	14	W.	0	1	12	1	8	1	8	26	3	0	16	14	0	1	0	0	0	8	0	0	0	0	0
July	3.7	W.	14	W.	0	2	7	6	2	1	9	25	4	6	13	18	0	0	0	0	0	11	0	0	0	0	0
August	3.6	W.	16	W.	0	1	8	4	5	0	7	28	5	4	10	21	0	0	0	0	0	7	0	4	0	0	0
September	3.7	W.	13	W.	0	0	16	3	6	2	1	31	1	0	12	17	1	0	0	0	0	2	0	1	0	0	0
October	3.5	W.	17	E.	0	4	13	10	1	3	0	24	6	1	15	12	4	4	4	0	0	2	0	2	0	0	0
November	3.3	W.	18	E.	0	4	18	1	4	5	0	19	8	1	12	15	3	3	2	0	0	6	0	0	0	0	0
December	3.6	NE.	25	E.	0	6	22	4	1	0	4	12	13	0	16	10	5	6	6	0	0	1	0	0	0	1	0
Year	3.7	W.	28	N.	0	37	173	54	41	20	51	256	80	18	161	160	44	40	33	0	0	46	0	8	1	2	0

LOUISVILLE, KY.

[H = 525 ft.; h_t = 114 ft.; h_r = 106 ft.; h_a = 136 ft.]

January	9.1	W.	36	NW.	0	4	4	3	11	6	12	12	9	1	6	11	14	14	8	11	0	0	13	0	28	0	0
February	10.4	W.	48	W.	2	6	9	3	8	5	5	15	5	0	8	8	12	14	12	1	0	0	1	0	20	1	0
March	10.2	S.	44	W.	1	5	9	0	11	11	11	8	7	0	8	11	12	10	8	3	0	0	2	0	13	3	0
April	9.4	SW.	48	W.	2	3	7	3	13	10	13	6	5	0	5	10	15	21	17	0	2	0	0	0	0	10	0
May	8.4	SW.	42	SW.	1	3	8	2	5	10	17	6	11	0	9	11	11	13	12	0	0	0	0	0	1	0	0
June	6.3	SW.	32	SW.	0	7	11	3	8	8	13	1	8	1	10	14	6	9	9	0	0	0	0	0	0	9	0
July	6.4	SW.	46	NW.	1	8	9	1	4	7	19	9	4	1	12	16	3	8	7	0	0	0	6	18	0	0	0
August	6.4	N.	23	NW.	0	22	11	2	6	8	7	1	5	0	23	8	0	4	3	0	0	0	0	16	0	2	0
September	6.0	S.	26	N.	0	7	8	3	9	13	7	2	8	3	15	6	9	9	7	0	0	0	0	9	0	5	0
October	6.7	S.	32	SW.	0	10	6	6	8	11	8	5	7	1	20	6	5	7	5	0	1	2	0	0	3	1	0
November	8.7	SW.	32	SW.	0	11	4	4	7	6	12	10	5	1	10	10	10	6	4	0	0	2	1	0	8	0	0
December	9.9	S.	37	W.	0	3	4	2	8	18	7	7	13	0	12	6	13	9	6	3	0	0	3	0	21	0	0
Year	8.2	SW.	48	W.	7	89	90	32	98	113	131	82	87	8	138	117	110	124	98	18	3	4	20	38	93	38	0

LYNCHBURG, VA.

[H = 685 ft.; h_t = 83 ft.; h_r = 76 ft.; h_a = 88 feet.]

January	4.7	NW.	25	NW.	0	2	0	1	2	4	16	11	23	3	11	13	7	10	7	8	0	0	14	0	28	0	0
February	5.4	NW.	36	NW.	0	1	7	12	2	2	10	4	18	0	8	8	12	15	13	6	0	1	1	0	15	0	0
March	5.4	NW.	40	NW.	1	5	13	5	7	5	10	4	12	1	11	8	12	10	3	2	0	0	0	0	13	0	0
April	5.6	SW.	30	NW.	0	3	6	9	5	4	14	7	10	2	8	14	8	15	11	0	0	0	0	0	0	4	0
May	5.1	NW.	28	NW.	0	2	7	4	12	7	9	6	12	3	8	13	10	16	11	0	0	0	0	3	0	8	0
June	3.7	SW.	35	NW.	0	4	9	12	8	3	11	0	10	3	8	13	9	17	11	0	0	0	0	18	0	9	0
July	3.5	NW.	28	NW.	0	4	10	10	4	6	9	8	8	3	11	18	2	11	8	0	0	0	0	18	0	9	0
August	3.5	E.	30	SE.	0	2	14	19	5	4	1	4	10	3	11	12	8	14	9	0	0	0	0	3	0	4	0
September	3.3	NE.	20	NW.	0	1	10	6	3	0	15	3	4	9	12	8	10	12	10	0	0	0	0	0	0	2	0
October	3.8	NE.	23	NE.	0	4	10	4	4	0	8	2	9	12	18	3	10	12	9	0	0	1	0	0	2	1	0
November	4.5	NE.	25	NW.	0	1	16	2	2	7	8	11	10	3	14	7	9	8	5	1	0	3	0	0	12	0	0
December	4.5	SW.	36	NW.	0	1	11	5	2	2	17	11	9	4	13	9	9	9	7	1	0	0	0	0	18	0	0
Year	4.4	SW.	40	NW.	1	30	131	89	56	44	128	71	135	46	133	126	106	149	104	18	0	5	15	24	88	31	0

MANCHESTER, N. H.

[H = 247 ft.; h_t = 76 ft.; h_r = 68 ft.; h_a = 81 ft.]

January	6.2	NW.	28	NW.	0	7	2	2	1	3	3	7	33	4	13	8	10	13	8	12	0	0	24	0	30	0	1
February	8.0	NW.	42	NW.	1	11	4	0	6	4	4	6	21	0	8	9	11	16	14	15	0	0	18	0	27	0	3
March	6.7	NW.	33	NW.	0	4	8	2	5	6	3	6	24	4	11	10	10	10	6	5	0	0	5	0	26	0	0
April	7.0	NW.	31	NW.	0	9	5	5	9	8	1	5	18	0	8	9	13	13	9	3	0	0	0	0	16	0	0
May	6.3	NW.	34	SW.	0	2	9	9	9	6	7	6	14	0	9	10	12	14	12	0	0	0	0	1	0	1	0
June	4.6	SE.	19	W.	0	4	10	6	14	11	3	2	9	1	11	8	11	11	7	0	0	0	0	2	0	2	0
July	5.2	NW.	26	W.	0	5	0	0	9	8	8	9	22	1	18	11	2	9	8	0	0	0	0	2	0	5	0
August	5.0	NW.	31	SE.	0	5	5	3	14	2	10	1	22	0	14	7	10	13	12	0	0	0	0	2	0	5	0
September	4.9	NW.	24	NW.	0	9	0	1	9	11	9	4	16	1	14	10	6	10	9	0	1	2	0	0	0	1	0
October	5.5	NW.	30	SE.	0	6	1	5	10	10	3	5	22	0	18	9	4	7	7	0	0	0	0	0	4	0	0
November	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
December	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

MANISTEE, MICH.

[λ = 44° 13′ N.; φ = 86° 16′ W.; gravity corr., 0.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew Point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.24	29.70	28.60	14.6	17.0	20.8	10.8	15.8	37	−4	12	15	89	90	.075	.085	2.51	.32	9.7	9.5	9.3
February	29.38	30.16	28.75	15.6	19.1	25.1	10.5	17.8	40	−3	13	16	89	84	.082	.090	1.85	.48	8.0	5.6	7.4
March	29.32	29.86	28.68	25.0	30.4	34.9	21.3	28.1	60	0	22	27	88	85	.123	.154	1.69	.38	6.0	5.4	5.8
April	29.22	29.70	28.49	36.0	40.3	46.3	33.1	39.7	76	20	32	36	87	83	.186	.212	3.71	.86	8.0	6.3	7.1
May	29.23	29.66	28.77	46.3	49.0	56.0	40.1	48.0	75	34	39	40	78	73	.243	.254	2.55	1.01	5.8	4.6	5.5
June	29.28	29.51	28.94	62.0	65.7	72.3	54.5	63.4	85	43	54	55	78	71	.429	.443	1.90	.89	3.2	4.6	3.9
July	29.27	29.54	29.00	64.8	70.3	74.7	59.2	67.0	88	50	58	58	79	66	.486	.489	3.27	1.13	4.9	4.5	4.2
August	29.36	29.62	29.10	61.4	66.1	72.2	55.9	64.0	90	43	53	54	76	66	.413	.415	1.07	.77	3.4	3.0	3.8
September																					
October																					
November																					
December																					
Year																					

MARQUETTE, MICH.

[λ = 46° 34′ N; φ = 87° 24′ W; gravity corr., 0.]

January	29.09	29.56	28.45	7.1	9.4	15.5	2.6	9.0	35	−15	6	7	93	89	.055	.062	2.27	.48	7.6	7.1	7.1
February	29.18	29.98	28.28	8.7	13.4	21.5	3.0	12.2	42	−19	7	9	92	89	.064	.069	1.93	.45	6.9	5.3	6.2
March	29.15	29.66	28.44	17.6	24.5	29.6	14.5	22.0	47	−4	14	18	86	78	.088	.106	3.00	1.16	4.8	5.2	5.9
April	29.08	29.60	28.36	32.2	33.0	39.2	26.3	32.8	60	16	27	28	80	82	.146	.153	2.31	.68	8.2	6.3	7.3
May	29.08	29.53	28.61	45.6	46.5	52.9	38.2	45.6	73	30	36	35	73	69	.217	.209	3.89	1.36	5.6	6.1	6.1
June	29.08	29.30	28.74	63.6	66.1	74.4	54.7	64.6	95	36	53	53	70	66	.413	.412	1.38	.94	3.5	4.3	5.0
July	29.10	29.39	28.78	66.1	67.8	76.2	58.1	67.2	91	48	55	56	69	68	.444	.464	5.22	2.22	4.9	4.6	5.3
August	29.19	29.47	28.92	61.4	64.4	72.6	55.1	63.8	92	45	52	54	72	71	.393	.423	2.56	1.57	3.9	4.4	5.0
September	29.18	29.61	28.69	52.8	55.0	62.9	47.8	55.4	81	35	47	47	80	76	.335	.345	.53	.16	6.4	5.5	6.1
October	29.13	29.59	28.60	43.1	46.7	53.5	40.0	46.8	69	23	38	40	82	78	.236	.254	2.92	.65	7.9	7.0	7.6
November	29.10	29.59	28.58	30.5	32.2	39.3	26.3	32.8	65	8	26	25	84	75	.149	.146	3.96	1.70	7.7	6.1	7.4
December	29.18	29.88	28.47	16.7	18.6	23.8	12.4	18.1	46	2	14	15	89	85	.089	.088	5.89	1.22	8.6	8.7	8.3
Year	29.13	29.98	28.28	37.1	39.8	46.8	31.6	39.2	95	−19	31	32	81	76	.219	.228	35.86	2.22	6.3	5.9	6.4

MEMPHIS, TENN.

[λ = 35° 9′ N.; φ = 90° 3′ W.; gravity corr., −0.03.]

January	29.75	30.12	29.34	32.8	41.7	47.4	30.2	38.8	68	13	27	31	78	66	.159	.187	1.42	.79	3.9	3.6	3.9
February	29.80	30.48	29.38	39.0	46.3	52.5	34.6	43.6	71	16	33	34	81	67	.200	.216	6.33	2.81	6.1	5.4	5.8
March	29.75	30.15	29.14	45.2	54.2	60.4	42.5	51.4	81	16	36	38	70	57	.230	.248	1.95	.79	4.5	5.6	4.3
April	29.62	29.95	28.97	59.8	68.0	74.9	55.6	65.2	90	38	52	53	76	61	.410	.422	5.48	1.76	5.5	5.0	4.7
May	29.61	29.91	29.21	64.1	71.2	77.9	59.7	68.8	90	52	57	58	80	65	.480	.493	13.34	4.27	4.3	4.9	3.9
June	29.65	29.91	29.34	73.0	79.5	86.1	67.6	76.8	95	59	65	66	78	65	.632	.650	2.39	.80	4.4	4.6	3.2
July	29.70	29.83	29.55	77.2	83.8	91.9	72.1	82.0	97	68	69	70	77	64	.716	.730	.73	.19	3.1	3.8	2.1
August	29.64	29.80	29.50	72.7	80.9	88.6	69.1	78.8	96	60	64	65	76	59	.617	.619	.62	.27	2.6	3.7	2.5
September	29.67	29.96	29.25	66.7	74.6	82.4	63.7	73.0	94	46	60	62	79	67	.532	.581	5.46	2.55	4.4	3.2	4.2
October	29.76	30.15	29.40	52.7	63.4	72.0	50.2	61.1	87	34	46	49	79	60	.335	.369	.84	0.24	2.6	1.1	1.4
November	29.78	30.16	29.34	43.9	52.3	58.4	41.6	50.0	76	24	38	40	80	65	.237	.260	3.48	1.48	5.0	3.1	4.1
December	29.88	30.27	29.31	40.5	47.9	54.2	37.5	45.8	73	18	34	38	77	69	.209	.246	2.61	1.67	4.8	3.2	4.5
Year	29.72	30.48	28.97	55.6	63.6	70.6	52.0	61.3	97	13	48	50	78	64	.396	.418	44.45	4.27	4.3	3.9	3.7

MERIDIAN, MISS.

[λ = 32° 21′ N.; φ = 88° 40′ W.; gravity corr., −0.03.]

January	29.72	30.10	29.29	33.9	45.3	53.0	30.8	41.9	75	14	28	34	78	66	.165	.216	1.74	.86	3.9	1.9	2.9
February	29.75	30.26	29.37	48.5	55.1	61.4	44.8	53.1	76	27	43	47	84	76	.306	.337	8.43	2.27	7.1	6.4	6.5
March	29.72	30.10	29.24	46.8	58.1	64.6	43.6	54.1	83	24	40	47	78	69	.267	.347	5.03	2.10	4.1	2.8	4.4
April	29.64	29.90	29.08	61.9	72.7	79.1	57.4	68.2	87	37	55	59	78	64	.458	.527	1.14	.53	5.1	2.5	4.5
May	29.59	29.92	29.33	66.8	73.1	81.4	61.6	71.0	92	45	61	64	82	74	.546	.603	10.24	2.73	5.9	4.0	5.7
June	29.61	29.81	29.36	73.3	78.8	87.3	67.0	77.2	95	58	68	68	83	71	.685	.693	5.59	1.46	4.5	5.7	6.1
July	29.68	29.82	29.52	76.2	80.7	91.7	69.5	80.6	97	66	71	72	84	75	.759	.772	2.75	1.16	3.3	5.4	6.1
August	29.59	29.69	29.40	72.5	79.1	89.8	66.7	78.2	95	55	68	67	85	69	.685	.676	2.77	1.58	3.6	5.3	5.4
September	29.63	29.83	29.18	66.8	73.9	84.7	62.2	73.4	94	52	63	66	88	78	.588	.656	5.28	3.42	4.5	3.3	3.9
October	29.71	30.02	29.30	52.8	61.5	74.4	48.0	61.2	88	33	48	53	86	74	.368	.423	1.68	.69	2.5	2.3	2.5
November	29.75	30.11	29.41	46.6	54.3	63.1	42.1	52.6	78	23	42	45	84	72	.290	.323	4.46	2.27	5.2	3.9	4.8
December	29.84	30.14	29.40	42.7	51.4	60.4	38.2	49.3	74	20	40	44	88	77	.265	.314	7.21	3.27	4.5	2.4	4.0
Year	29.69	30.26	29.08	57.4	65.3	74.2	52.7	63.4	97	14	52	56	83	72	.448	.491	56.32	3.42	4.5	3.8	4.7

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

MANISTEE, MICH.

[H = 615 ft.; h_t = 43 ft.; h_r = 28 ft.; h_a = 46 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	9.5	NW.	38	NW.	0	1	6	17	6	1	4	9	18	0	0	3	28	27	18	27	0	0	28	0	31	0	0
February	9.7	NW.	46	SW.	2	6	10	9	4	2	7	4	12	2	5	6	17	20	12	19	0	3	21	0	28	0	0
March	10.1	N.	38	SW.	0	19	5	3	6	5	9	9	6	0	11	4	16	16	13	10	0	1	14	0	26	0	0
April	10.5	NE.	36	NE.	0	8	17	6	7	3	8	4	6	1	2	11	17	12	10	2	0	1	1	0	10	3	0
May	7.7	NW.	27	SE.	0	17	7	5	9	3	10	0	11	0	11	11	9	9	7	0	0	6	0	0	0	2	0
June	7.0	SW.	28	S.	0	8	5	5	5	12	13	4	8	0	14	12	4	9	7	0	0	6	0	0	0	3	1
July	6.5	SW.	30	SW.	0	13	6	6	7	4	17	2	6	1	15	10	6	9	6	0	0	0	0	0	0	6	2
August	6.3	N.	25	NE.	0	15	15	6	7	8	8	0	2	1	16	9	6	5	3	0	0	1	0	1	0	3	2
September	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
October	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
November	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
December	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

MARQUETTE, MICH.

[H = 734 ft.; h_t = 67 ft.; h_r = 58 ft.; h_a = 95 ft.]

January	10.8	NW.	42	NW.	1	2	1	0	5	5	6	18	24	1	6	7	18	22	15	22	0	0	30	0	31	0	2
February	11.0	NW.	38	NW.	0	9	1	2	7	9	5	7	16	0	10	3	15	15	12	15	0	0	24	0	28	0	1
March	11.1	N.	42	SW.	1	10	6	3	3	6	5	10	17	2	8	12	11	15	8	13	0	1	18	0	28	0	0
April	10.2	NW.	44	W.	2	9	10	3	13	3	3	6	12	1	3	10	17	16	13	14	0	1	2	0	27	0	0
May	9.8	NW.	44	SE.	2	2	6	3	5	7	3	5	31	0	9	9	13	14	11	5	1	3	0	0	4	1	3
June	9.3	S.	43	S.	1	4	7	8	7	8	10	6	10	0	9	16	5	9	5	0	1	2	0	3	0	6	1
July	9.0	NW.	35	S.	0	7	8	2	6	7	7	9	15	1	8	16	7	15	11	0	0	1	0	1	0	7	2
August	10.0	NW.	35	S.	0	10	6	0	10	13	4	2	16	1	12	12	7	11	8	0	0	1	0	2	0	4	3
September	10.5	SE.	61	S.	1	3	3	0	15	9	4	13	12	1	6	15	9	12	5	0	0	0	0	0	0	4	0
October	12.7	S.	42	NW.	3	5	1	2	5	15	10	6	18	0	1	13	17	14	12	2	0	0	1	0	4	3	0
November	11.5	S.	34	SW.	0	4	2	0	4	16	5	16	13	0	4	9	17	14	8	13	0	0	9	0	21	1	1
December	11.7	W.	40	S.	1	7	1	2	2	10	8	25	7	0	0	11	20	22	16	21	0	0	23	0	30	0	0
Year	10.8	NW.	61	S.	12	72	52	25	82	108	70	123	191	7	76	133	156	179	124	105	2	9	107	6	173	26	13

MEMPHIS, TENN.

[H = 330 ft.; h_t = 108 ft.; h_r = 100 ft.; h_a = 116 ft.]

January	8.4	S.	34	NW.	0	7	2	2	7	19	3	10	12	0	18	5	8	3	2	1	0	0	4	0	17	0	0
February	9.6	N.	34	E.	0	16	7	2	7	6	3	9	6	0	10	5	13	13	11	2	0	0	2	0	7	1	0
March	9.5	S.	38	NW.	0	10	2	1	7	14	8	6	11	3	15	7	9	8	6	2	0	2	0	0	5	1	0
April	9.6	S.	43	NW.	2	10	7	4	6	19	3	7	2	2	14	8	8	11	11	0	2	0	0	0	0	5	0
May	7.1	S.	37	SE.	0	11	4	2	8	17	4	5	10	1	16	7	8	12	10	0	1	0	0	0	0	5	0
June	5.8	N.	31	E.	0	13	9	7	11	11	3	4	2	0	18	8	4	7	6	0	1	0	0	4	0	5	0
July	5.6	NW.	35	NW.	0	3	1	4	3	9	18	4	18	2	25	4	2	9	5	0	0	0	0	21	0	2	0
August	5.7	NW.	42	SE.	1	16	0	1	4	3	7	1	27	3	22	8	1	4	3	0	0	1	0	14	0	1	0
September	6.7	S.	32	SE.	0	10	7	3	5	16	4	3	8	4	16	3	11	8	8	0	0	2	0	6	0	1	0
October	6.2	SE.	28	NW.	0	5	5	5	15	6	1	13	9	3	26	4	1	4	4	0	0	2	0	0	0	0	0
November	7.2	NW.	35	SE.	0	6	12	10	11	6	4	1	10	0	16	6	8	6	6	0	0	1	0	0	3	0	0
December	8.1	NW.	36	NW.	0	5	8	4	9	12	9	4	11	0	15	6	10	7	6	1	0	0	0	0	10	1	0
Year	7.5	S.	43	NW.	3	112	64	45	93	138	67	67	126	18	211	71	83	92	78	6	4	8	6	45	42	22	0

MERIDIAN, MISS.

[H = 358 ft.; h_t = 68 ft.; h_r = 58 ft.; h_a = 72 ft.]

January	6.4	SW.	30	SE.	0	9	8	3	4	6	13	4	6	9	20	6	5	6	4	2	0	2	0	0	19	2	0
February	7.3	S.	30	SW.	0	11	8	8	6	11	5	3	3	1	8	6	14	12	11	0	0	0	0	0	1	3	0
March	7.5	N.	36	S.	0	13	8	5	7	10	5	2	5	7	15	8	8	11	10	0	1	2	0	0	4	3	0
April	8.8	S.	33	SW.	0	6	7	2	4	28	8	2	0	3	10	17	3	4	3	0	0	0	0	0	0	2	0
May	5.8	S.	48	NW.	1	10	8	6	3	12	12	2	3	6	10	10	11	14	14	0	0	0	0	1	0	5	0
June	4.9	E.	34	NE.	0	8	13	13	7	5	4	3	4	3	5	17	8	13	11	0	0	0	0	10	0	10	0
July	4.0	SW.	28	N.	0	6	5	2	6	8	17	3	5	10	3	23	5	15	10	0	0	0	0	19	0	13	0
August	4.1	SW.	24	SW.	0	5	8	3	5	5	15	3	11	7	6	21	4	7	7	0	0	0	0	17	0	10	0
September	5.0	NE.	24	NE.	0	4	18	1	8	1	12	0	1	15	15	7	8	9	7	0	0	0	0	7	0	2	0
October	4.6	Calm. NE.	28	N.	0	12	13	6	5	1	4	1	6	14	21	5	5	4	4	0	0	2	0	0	0	1	0
November	5.6	NE.	32	S.	0	12	14	2	5	6	8	0	4	9	12	8	10	9	7	0	0	2	0	0	4	1	0
December	6.1	NW.	48	S.	1	11	11	6	4	9	4	0	12	5	14	12	5	9	9	0	0	3	0	0	8	2	0
Year	5.9	NE.	48	NW. S.	2	107	121	57	64	102	107	23	60	89	139	140	86	112	97	2	1	11	0	54	36	54	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

MILES CITY, MONT.

[λ = 46° 25′ N.; φ = 105° 49′ W.; gravity corr., 0.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	27.48	27.87	27.06	15.5	19.8	27.0	10.5	18.8	54	—35	10	12	78	72	.085	.095	0.57	0.14	6.6	6.6	6.5
February	27.50	28.04	27.07	3.3	13.3	18.7	—0.5	9.1	48	—45	—2	6	76	70	.055	.076	.44	.31	5.9	3.6	6.9
March	27.43	27.99	26.89	14.9	30.6	36.7	13.0	24.8	76	—12	12	21	80	68	.081	.121	.47	.17	5.3	5.2	5.3
April	27.38	27.67	26.60	32.4	47.6	51.5	29.1	40.3	76	16	26	25	78	46	.137	.134	1.45	.72	6.4	7.4	6.4
May	27.37	27.67	26.86	47.1	63.1	68.0	42.1	55.0	98	28	38	34	72	40	.230	.204	4.07	1.30	4.1	5.9	5.3
June	27.37	27.67	26.95	56.6	73.8	78.4	51.9	65.2	97	43	46	41	68	34	.311	.262	1.67	.58	5.0	4.1	4.6
July	27.41	27.71	27.08	63.8	83.3	87.8	59.4	73.6	107	49	50	45	62	29	.367	.308	1.25	.44	2.3	2.9	2.3
August	27.42	27.75	27.05	59.4	82.7	87.2	55.9	71.6	106	39	41	34	52	19	.263	.205	.05	.05	3.2	3.2	2.6
September	27.36	27.82	26.90	48.8	68.0	74.6	46.7	60.6	99	23	35	33	62	31	.211	.191	1.89	1.32	3.6	5.3	4.1
October	27.42	27.82	27.07	36.4	47.6	55.4	33.4	44.4	76	24	30	32	79	57	.168	.184	1.25	.34	5.4	5.6	6.6
November	27.46	27.94	26.97	22.9	30.0	36.4	18.8	27.6	67	—14	18	21	82	71	.105	.122	.50	.20	4.4	5.9	6.6
December	27.44	27.88	26.94	19.6	26.1	31.8	13.8	22.8	49	—17	16	20	86	79	.095	.114	.55	.18	5.6	4.9	6.0
Year	27.42	28.04	26.60	35.1	48.8	54.5	31.2	42.8	107	—45	27	27	74	51	.176	.168	14.16	1.32	4.8	5.1	5.3

MILWAUKEE, WIS.

[λ = 43° 2′ N.; φ = 87° 54′ W.; gravity corr., 0.]

January	29.23	29.58	28.66	9.3	11.8	16.8	3.9	10.4	34	—14	4	6	79	76	.058	.063	1.80	.72	7.0	5.8	6.8
February	29.34	30.13	28.78	14.9	20.7	25.4	10.4	17.9	39	—16	10	14	80	74	.076	.093	1.51	.46	6.2	5.1	6.0
March	29.26	29.80	28.55	26.7	32.7	36.5	23.9	30.2	61	5	21	25	79	72	.122	.143	3.29	1.47	5.5	5.8	6.3
April	29.16	29.58	28.22	38.7	42.4	48.4	35.0	41.7	82	26	32	34	76	73	.179	.198	5.69	1.98	7.6	6.9	7.5
May	29.19	29.60	28.66	49.0	51.9	59.6	43.3	51.4	80	35	39	39	70	63	.244	.241	1.79	.48	6.6	5.0	5.8
June	29.26	29.51	28.91	63.4	68.4	74.3	57.0	65.6	84	43	55	56	74	68	.435	.468	5.46	2.14	5.1	3.9	4.8
July(a)	29.27	29.54	29.01	68.8	72.8	78.9	62.8	70.8	92	55	59	60	72	66	.509	.531	3.67	1.18	4.5	3.0	4.0
August	29.31	29.56	29.06	64.7	70.1	76.8	59.7	68.2	94	50	51	55	70	60	.425	.435	1.01	.55	4.2	3.0	3.9
September	29.28	29.66	28.89	57.1	62.9	70.1	53.8	62.0	91	36	48	51	74	68	.366	.402	3.24	2.42	5.6	3.8	5.0
October	29.27	29.74	28.56	45.1	52.0	58.4	42.5	50.4	78	24	40	41	82	66	.261	.266	1.62	.48	4.2	3.8	4.9
November	29.29	29.74	28.57	31.5	35.3	42.6	27.6	35.1	69	3	25	26	75	67	.146	.151	1.20	.36	4.3	4.1	4.7
December	29.32	30.04	28.74	22.0	24.9	29.7	14.6	22.2	57	—9	17	18	81	75	.110	.115	2.39	1.29	7.1	6.4	6.7
Year	29.26	30.13	28.22	40.9	45.5	51.5	36.2	43.8	94	—16	34	35	76	69	.244	.259	32.87	2.42	5.7	4.7	5.5

a One 8 p. m. observation taken late.

MINNEAPOLIS, MINN.

[λ = 44° 59′ N.; φ = 93° 18′ W.; gravity corr., —.]

January						18.4	—3.8	7.3	40	—20							.87	.24			
February						22.7	1.2	12.0	38	—27							1.58	.55			
March						34.2	15.6	24.9	52	— 7							2.09	.94			
April						48.8	31.5	40.2	73	21							5.01	1.26			
May						64.2	44.4	54.3	79	32							2.50	.91			
June						81.8	62.0	71.9	92	46							1.83	.81			
July						84.8	63.2	74.0	97	55							1.66	.90			
August						81.7	57.1	69.4	95	46							6.30	4.08			
September						75.0	50.6	62.8	94	32							2.86	1.23			
October						61.0	39.6	50.3	82	18							1.67	.53			
November						42.9	22.4	33.6	73	—10							1.15	.52			
December						23.1	4.7	13.9	42	—15							2.41	.75			
Year						53.2	32.4	42.8	97	—27							29.93	4.08			

MOBILE, ALA.

[λ = 30° 41′ N.; φ = 88° 2′ W.; gravity corr., —0.04.]

January	30.05	30.41	29.68	48.4	48.2	55.8	36.9	46.4	69	22	35	41	86	77	.213	.271	3.17	1.81	3.9	3.2	4.2
February	30.07	30.52	29.74	53.9	58.1	65.2	51.1	58.2	72	36	50	52	87	81	.377	.405	3.65	1.39	4.9	5.4	6.9
March	30.05	30.42	29.66	52.0	59.1	65.8	48.8	57.3	78	27	46	48	79	71	.338	.368	3.97	1.64	4.2	3.9	4.7
April	29.99	30.18	29.49	66.1	70.1	76.1	62.4	69.2	82	49	61	63	83	78	.559	.590	3.72	2.77	6.1	5.3	4.7
May	29.91	30.20	29.70	71.7	74.4	81.3	66.0	73.6	87	54	66	67	82	79	.645	.677	6.64	2.70	4.5	5.5	5.0
June	29.92	30.12	29.64	77.0	79.5	86.9	71.0	79.0	95	65	71	72	82	78	.758	.774	6.63	3.66	5.1	6.8	5.8
July	29.98	30.11	29.84	79.4	81.7	90.5	73.8	82.2	96	68	73	74	82	77	.811	.828	2.84	0.74	3.9	6.8	5.6
August	29.88	30.00	29.67	76.6	80.0	89.4	72.5	81.0	94	67	71	72	83	79	.762	.796	7.33	2.01	4.5	6.0	5.4
September	29.92	30.09	29.51	73.0	78.5	86.4	69.6	78.0	95	64	69	71	89	77	.721	.751	11.53	5.01	3.6	3.5	4.8
October	29.99	30.31	29.10	59.1	67.6	76.4	56.2	66.3	88	42	55	58	86	72	.455	.507	8.56	5.37	2.5	2.3	3.1
November	30.07	30.40	29.81	51.7	58.1	66.6	48.8	57.7	77	32	48	52	88	81	.359	.410	3.54	2.33	5.1	3.7	5.5
December	30.19	30.44	29.72	49.1	55.8	65.1	45.9	55.5	74	26	46	49	89	80	.341	.377	1.84	0.67	5.4	3.6	5.4
Year	30.00	30.52	29.10	62.3	67.6	75.5	58.6	67.0	96	22	58	60	85	78	.528	.563	63.42	5.37	4.5	4.7	5.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

MILES CITY, MONT.

[H = 2,374 ft.; h_t = 40 ft.; h_r = 34 ft.; h_a = 53 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	6.4	NW.	36	W.	0	6	5	1	7	8	9	11	14	1	9	6	16	10	6	9	0	1	12	0	30	0	0
February	6.3	W.	27	NE.	0	5	6	0	4	9	11	11	9	1	5	9	14	7	2	9	0	0	18	0	27	0	0
March	6.0	NW.	27	W.	0	8	9	9	9	3	1	6	13	4	13	9	9	8	6	9	0	0	14	0	28	0	0
April	7.8	NW.	47	W.	1	6	3	5	13	1	5	5	17	5	2	18	10	7	6	7	0	0	2	0	19	0	0
May	8.0	E.	36	N.	0	4	6	15	12	1	2	8	10	4	11	8	12	10	10	0	0	0	0	2	0	1	0
June	7.0	NW.	42	W.	1	5	4	3	9	3	3	9	15	9	13	9	8	10	9	0	0	0	0	12	0	0	1
July	6.4	SE.	36	W.	0	7	6	5	13	1	2	11	9	8	23	6	2	12	8	0	0	0	0	11	0	0	1
August	3.1	Calm. NW.	26	NW.	0	1	4	3	7	0	2	5	12	28	20	9	2	2	0	0	0	0	0	0	0	0	0
September	3.8	Calm. NW.	22	NW.	0	2	2	4	6	1	3	5	11	26	11	17	2	5	4	0	0	0	0	6	2	0	2
October	4.2	Calm. NW.	17	S.	0	4	2	1	8	6	5	6	12	18	7	9	15	11	8	4	0	0	0	0	14	0	0
November	4.7	NW.	26	W.	0	2	4	0	9	9	7	7	13	9	10	4	16	10	3	11	0	0	12	0	25	0	1
December	4.6	W.	24	W.	0	2	9	3	9	8	7	13	2	9	8	10	13	9	4	6	1	0	10	0	31	1	0
Year	5.7	NW.	47	W.	2	52	60	49	106	50	57	97	137	122	132	114	119	101	66	55	1	1	68	32	178	2	5

MILWAUKEE, WIS.

[H = 673 ft.; h_t = 106 ft.; h_r = 100 ft.; h_a = 149 ft.]

January	11.6	NW.	38	SE.	0	2	2	1	3	7	5	16	25	1	6	10	15	15	9	15	0	0	29	0	31	0	0
February	13.2	NW.	46	SW.	2	2	3	2	7	7	9	7	19	0	7	12	9	12	9	9	0	1	21	0	27	0	1
March	11.7	NW.	35	E.	0	11	5	7	7	2	11	8	11	0	7	10	14	13	7	6	0	4	9	0	25	0	0
April	14.0	NE.	48	E.	3	2	14	9	10	6	3	7	9	0	3	12	15	18	15	3	0	1	1	0	5	4	0
May	9.9	NE.	36	W.	0	2	24	7	5	2	7	4	10	1	5	19	7	10	6	1	0	2	0	0	0	4	2
June	8.4	SE.	29	SW.	0	4	11	4	13	2	10	7	9	0	10	13	7	8	7	0	0	4	0	0	0	3	0
July	8.1	SE.	32	N.	0	3	9	9	10	7	9	8	6	1	13	16	2	9	7	0	0	1	0	0	4	0	2
August	8.4	NE.	37	NW.	0	5	13	6	4	13	6	8	6	1	14	14	3	3	3	0	0	2	0	2	0	11	2
September	11.2	SE.	42	SE.	1	2	12	4	11	5	8	8	10	0	12	10	8	7	5	0	0	0	0	2	0	2	4
October	10.8	SW.	41	NW.	1	1	3	1	7	14	13	9	14	0	11	10	10	10	8	0	0	3	0	0	0	2	0
November	10.8	NW.	38	NW.	0	3	1	1	4	12	11	16	12	0	11	12	7	9	5	5	0	5	5	0	18	0	0
December	12.1	NW.	36	NE.	0	4	3	2	4	11	8	9	21	0	5	14	12	17	9	12	0	1	18	0	28	0	0
Year	10.8	NW.	48	E.	7	41	100	53	85	88	100	107	152	4	104	152	109	131	90	51	1	24	83	8	138	28	9

MINNEAPOLIS, MINN.

[H = — ft.; h_t = 99 ft.; h_r = 95 ft.; h_a = 192 ft.]

January	9.1	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	9	6	16	12	8	12	0	0	27	0	31	0	0
February	10.8	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	8	10	10	9	7	9	0	0	21	0	28	0	0
March	9.0	S.	....	.....	....	....	....	....	....	....	....	....	....	....	10	9	12	8	7	5	0	0	13	0	26	2	0
April	12.1	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	3	10	17	12	11	4	1	0	0	0	13	2	0
May	9.4	NE.	....	.....	....	....	....	....	....	....	....	....	....	....	5	16	10	11	7	1	0	0	0	0	0	2	0
June	9.3	S.	....	.....	....	....	....	....	....	....	....	....	....	....	9	17	4	8	5	0	0	0	0	0	0	2	0
July	9.1	W.	....	.....	....	....	....	....	....	....	....	....	....	....	14	13	4	8	5	0	0	0	0	6	0	2	2
August	8.9	SE.	....	.....	....	....	....	....	....	....	....	....	....	....	11	16	4	10	8	0	0	0	0	3	0	2	3
September	10.2	NE.	....	.....	....	....	....	....	....	....	....	....	....	....	16	12	2	6	5	0	1	0	0	3	0	4	0
October	10.5	SE.	....	.....	....	....	....	....	....	....	....	....	....	....	10	12	9	14	6	0	0	0	0	0	0	3	0
November	10.5	S.	....	.....	....	....	....	....	....	....	....	....	....	....	7	14	9	6	5	4	0	0	8	0	22	0	1
December	9.4	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	8	7	16	13	5	12	0	0	22	0	31	0	0
Year	9.9	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	110	142	113	117	79	47	5	0	91	12	157	23	6

MOBILE, ALA.

[H = 57 ft.; h_t = 87 ft.; h_r = 78 ft.; h_a = 96 ft.]

January	7.5	N.	33	S.	0	14	5	2	2	9	7	5	13	5	15	10	6	9	5	1	0	3	0	0	7	1	0
February	8.7	N.	30	W.	0	15	4	3	7	15	1	3	8	0	5	9	14	15	12	0	0	6	0	0	1	3	0
March	8.9	N.	44	NW.	1	15	5	4	8	8	7	3	12	0	14	8	9	12	11	0	1	2	0	0	1	4	0
April	10.0	S.	36	SE.	0	7	0	2	14	21	9	2	4	1	8	19	3	8	5	0	0	1	0	0	0	5	0
May	8.2	S.	36	N.	0	10	6	1	3	22	10	3	6	1	7	18	6	12	11	0	0	1	0	0	0	8	0
June	7.8	N.	30	SW.	0	14	3	2	10	12	5	3	11	0	5	18	7	20	13	0	1	0	0	6	0	9	0
July	6.0	NW.	36	SE.	0	9	5	3	3	4	12	9	17	0	5	22	4	19	10	0	0	0	0	0	0	12	0
August	6.1	N.	30	SE.	0	14	4	2	2	5	11	9	14	1	8	13	10	17	17	0	0	0	0	14	0	14	0
September	7.1	N.	36	NE.	0	23	3	5	4	9	9	2	5	0	14	9	7	8	7	0	0	0	0	6	0	5	0
October	8.3	N.	72	SE.	1	29	4	1	0	4	5	2	17	0	19	7	5	5	4	0	0	0	2	0	0	0	0
November	7.4	N.	37	SE.	0	17	5	2	6	8	4	2	13	3	8	10	12	7	6	0	0	4	0	0	0	1	0
December	7.8	N.	30	N.	0	21	0	7	4	7	6	3	13	1	12	8	11	12	6	0	0	4	0	0	3	1	0
Year	7.8	N.	72	SE.	2	183	44	34	63	124	86	46	133	12	120	151	94	145	107	1	2	22	0	42	11	65	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

MONTGOMERY, ALA.

[λ = 32° 23′ N.; φ = 86° 18′ W.; gravity corr., −0.03.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.82	30.21	29.35	34.2	47.1	53.2	32.3	42.8	72	17	29	31	80	55	.174	.194	3.18	1.31	3.4	3.5	5.1
February	29.87	30.34	29.58	49.0	56.2	63.0	46.2	54.6	79	34	42	44	80	66	.295	.307	4.92	1.45	7.8	5.5	7.6
March	29.83	30.20	29.28	48.5	60.0	66.5	45.7	56.1	84	24	41	38	76	48	.282	.260	2.89	.93	5.9	3.8	5.0
April	29.77	29.99	29.30	62.0	72.8	80.4	57.7	69.0	88	44	53	52	75	51	.433	.419	4.13	2.58	5.8	4.4	5.4
May	29.70	30.04	29.45	67.5	74.6	82.0	62.2	72.1	93	51	60	59	78	60	.535	.508	6.93	2.23	5.5	4.7	5.4
June	29.72	29.95	29.44	73.8	79.6	88.4	68.8	78.6	94	62	67	66	80	66	.673	.648	3.68	2.59	5.4	5.5	5.7
July	29.78	29.92	29.60	77.3	84.3	94.4	72.7	83.6	99	68	71	70	82	64	.762	.740	6.19	2.80	1.9	4.8	4.2
August	29.69	29.82	29.39	74.5	80.1	89.7	71.2	80.4	95	64	69	70	84	73	.726	.741	5.72	1.32	4.1	4.6	4.5
September	29.74	29.94	29.46	69.6	78.0	87.3	66.6	77.0	96	58	66	66	87	68	.641	.647	3.69	1.44	4.1	3.6	4.4
October	29.79	30.12	29.35	56.4	67.3	75.6	54.0	64.8	86	35	51	52	81	60	.393	.418	1.21	1.02	2.7	2.0	3.3
November	29.86	30.21	29.45	47.8	58.0	65.9	45.4	55.6	78	27	44	45	87	63	.306	.317	2.65	1.13	5.5	2.9	5.3
December	29.97	30.27	29.49	44.8	54.0	62.4	41.5	52.0	72	24	41	43	86	68	.272	.301	2.29	.83	5.8	3.2	5.5
Year	29.80	30.34	29.28	58.8	67.7	75.7	55.4	65.6	99	17	53	53	81	62	.458	.458	47.48	2.80	4.8	4.0	5.1

MONTROSE, COLO.

[λ = 38° 30′ N.; φ = 107° 56′ W.; gravity corr., −0.02.]

January	24.33	24.65	23.81	17.8	28.1	39.7	14.9	27.3	32	Zero.	10	16	72	59	.072	.088	1.06	1.00	2.5	3.7	4.1
February	24.24	24.56	23.76	19.3	28.2	36.1	16.2	26.2	50	−2	14	17	80	62	.088	.092	2.36	0.64	6.2	6.1	6.8
March	24.21	24.61	23.72	29.3	41.8	47.1	25.6	36.4	72	1	19	20	67	45	.108	.111	0.72	0.30	6.1	6.0	6.1
April	24.17	24.42	23.83	37.9	54.2	57.4	35.5	46.4	71	17	22	15	53	27	.118	.109	0.57	0.24	5.8	5.8	5.4
May	24.21	24.54	23.94	45.2	65.4	69.7	42.2	56.0	82	29	29	22	54	24	.159	.128	0.18	0.05	3.7	5.0	4.4
June	24.26	24.46	24.03	57.5	80.4	83.9	52.7	68.3	91	35	30	21	37	12	.170	.116	0.06	0.06	1.5	2.6	2.1
July	24.33	24.50	24.15	60.3	79.8	87.1	57.5	72.3	92	50	38	36	45	29	.235	.251	0.48	0.22	3.2	5.9	5.0
August	24.34	24.46	24.24	56.5	75.8	81.8	54.8	68.3	90	48	46	46	68	40	.318	.335	2.17	0.60	3.9	5.1	5.2
September	24.27	24.53	23.92	49.6	68.9	76.0	48.1	62.0	86	32	33	30	55	28	.193	.183	0.98	0.69	1.9	3.7	3.6
October (*a*)	24.34	24.55	23.99	38.0	57.8	65.0	36.4	50.7	76	26	23	17	54	22	.121	.098	0.18	0.18	3.0	4.3	4.0
November																					
December																					
Year																					

a Data for 20 days.

MOORHEAD, MINN.

[λ = 46°-52′ N.; φ = 96° 44′ W.; gravity corr., 0.]

January	29.04	29.48	28.47	−4.9	−3.1	4.9	−12.0	−3.6	35	−31	−8	−9	83	74	.092	.032	1.44	.26	6.4	5.1	5.9
February	29.07	29.84	28.57	−4.9	1.4	6.8	−10.2	−1.7	33	−39	−10	−5	78	71	.031	.040	1.29	.55	6.7	3.0	5.9
March	29.02	29.68	28.37	6.0	17.5	22.4	2.9	12.6	41	−24	2	12	80	77	.059	.062	1.12	.46	5.6	4.6	5.2
April	28.89	29.27	27.82	29.0	34.9	38.5	26.5	32.5	58	10	25	30	84	82	.138	.168	3.61	1.62	6.4	6.8	7.2
May	28.91	29.26	28.16	46.4	58.0	62.5	41.7	52.1	82	33	41	44	82	63	.262	.296	1.06	.63	6.2	5.4	5.5
June	28.83	29.07	28.80	63.5	75.3	81.2	57.3	69.2	101	46	57	58	80	58	.473	.491	4.07	1.02	4.4	3.6	5.1
July	28.91	29.20	28.59	62.3	75.6	80.5	56.4	68.4	94	46	58	63	85	66	.482	.568	2.98	.82	1.9	2.0	3.9
August	28.93	29.26	28.43	57.2	71.4	78.5	52.6	65.6	93	36	52	56	83	61	.402	.465	3.07	1.37	3.1	3.3	3.8
September	28.89	26.38	28.49	48.2	61.9	70.1	44.5	57.3	89	21	43	48	83	62	.301	.360	1.03	.66	3.9	3.3	4.0
October	28.90	29.46	28.51	34.5	44.9	52.3	32.5	42.4	72	12	31	37	86	75	.181	.228	1.18	.60	5.1	5.0	6.0
November	28.95	29.34	28.35	17.4	24.3	31.9	13.4	22.6	67	−20	14	20	85	81	.098	.123	1.11	1.05	6.5	6.1	6.9
December	29.04	29.74	28.41	0.4	4.0	11.5	−7.6	2.0	38	−29	−2	0	86	82	.041	.047	1.62	1.20	6.9	5.0	6.7
Year	28.95	29.84	27.82	29.6	38.8	45.1	24.8	35.0	101	−39	25	30	83	71	.208	.243	23.58	1.62	5.3	4.4	5.5

NANTUCKET, MASS.

[λ = 41° 17′ N.; φ = 70° 6′ W.; gravity corr., −0.01.]

January	29.91	30.53	29.10	23.3	25.4	29.1	18.4	23.8	44	4	17	19	76	76	.107	.114	2.06	.48	6.5	4.5	6.3
February	30.06	30.74	29.12	26.4	29.8	34.6	23.3	29.0	48	6	23	25	80	81	.135	.143	3.90	1.00	5.8	5.2	6.4
March	30.01	30.54	29.32	33.3	34.2	38.1	28.5	33.3	51	8	28	30	82	82	.165	.168	4.35	1.22	4.7	4.4	6.4
April	30.06	30.61	29.52	41.9	42.2	46.5	36.9	41.7	53	28	38	37	86	83	.231	.223	4.73	1.20	7.1	4.6	6.0
May	29.89	30.30	29.37	52.8	50.9	57.7	46.1	51.9	72	40	46	44	80	79	.316	.293	2.68	1.14	5.8	4.2	5.0
June	30.00	30.31	29.66	61.7	58.4	65.9	53.5	59.7	87	46	57	53	86	82	.469	.404	2.26	.79	6.3	5.0	6.0
July	29.93	30.16	29.60	68.5	67.4	73.3	60.5	66.9	80	49	59	57	73	69	.509	.465	1.45	.50	3.1	4.4	4.8
August	29.97	30.25	29.73	69.2	67.5	73.5	62.8	68.2	81	60	62	58	80	72	.571	.480	4.40	2.86	5.6	3.9	5.2
September	30.02	30.38	29.71	61.3	59.9	64.6	55.3	60.0	72	46	52	53	73	73	.399	.406	2.24	.61	4.5	3.2	5.1
October	30.11	30.57	29.60	54.4	53.2	58.8	49.5	54.2	69	39	48	47	81	81	.353	.339	2.17	.97	5.0	3.0	5.0
November	30.08	30.62	29.55	44.3	44.0	48.3	39.0	43.6	64	27	37	36	75	73	.220	.222	1.31	.44	5.8	4.5	6.2
December	30.07	30.81	29.42	36.0	36.7	42.4	29.5	36.0	57	7	31	30	82	78	.185	.187	4.21	1.11	6.5	3.4	5.8
Year	30.01	30.81	29.10	47.9	47.5	52.7	41.9	47.4	87	4	42	41	80	78	.306	.287	35.76	2.86	5.6	4.2	5.7

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

MONTGOMERY, ALA.

[H = 257 ft.; h_t = 99 ft.; h_r = 92 ft.; h_a = 110 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.1	W.	32	NW.	0	2	4	6	6	7	5	15	9	8	13	5	13	6	5	2	0	2	0	0	18	0	0
February	8.3	E.	30	W.	0	9	7	12	5	7	4	7	4	1	4	3	21	11	10	0	0	0	0	0	0	2	0
March	7.3	NW.	41	NW.	2	10	4	7	8	7	8	4	10	4	13	3	15	8	8	0	0	0	0	0	3	2	0
April	6.9	S.	30	W.	0	7	1	2	8	26	8	3	5	0	10	9	11	8	6	0	0	0	0	0	0	5	0
May	6.2	S.	30	NW.	0	6	5	6	7	14	8	4	11	1	9	11	11	11	11	0	0	0	0	0	3	6	0
June	5.7	E.	30	S.	0	8	12	15	8	3	3	8	3	0	10	8	12	13	7	0	0	0	0	11	0	9	0
July	5.1	SW.	30	W.	0	5	5	5	1	7	18	16	4	1	13	17	1	12	9	0	0	1	0	28	0	12	0
August	4.7	E.	25	W.	0	9	12	12	5	9	3	5	6	1	14	9	8	11	10	0	0	0	0	16	0	6	0
September	5.4	N.	28	E.	0	12	9	10	12	5	2	2	6	2	14	10	6	8	7	0	0	0	0	11	0	3	0
October	6.0	N.	36	E.	0	18	10	7	3	2	0	10	10	2	20	5	6	4	3	0	0	2	0	0	0	1	0
November	6.0	NE.	36	NE.	0	6	15	7	7	6	2	7	8	2	11	7	12	11	8	0	0	1	0	0	3	1	0
December	6.3	NW.	38	W.	0	8	9	7	4	8	6	5	13	2	7	15	9	9	4	0	0	0	0	0	5	2	0
Year	6.2	S.	41	NW.	2	100	93	96	74	101	67	86	89	24	138	102	125	112	88	2	0	6	0	69	29	49	0

MONTROSE, COLO.

[H = 5,795 ft.; h_t = 43 ft.; h_r = 34 ft.; h_a = 46 ft.]

January	5.5	SE.	46	SW.	2	1	1	4	36	10	3	4	1	2	18	7	6	3	2	2	0	0	6	0	28	0	0
February	5.4	SE.	24	NE.	0	5	1	9	27	5	1	4	4	0	7	7	14	12	9	12	0	0	6	0	27	0	0
March	6.5	SE.	32	S.	0	4	3	7	25	13	2	3	5	0	8	9	14	9	5	6	1	0	0	0	24	0	0
April	8.7	SE.	48	SW.	2	10	1	3	17	7	9	6	7	0	9	12	9	6	6	4	0	0	0	0	9	0	0
May	8.1	SE.	44	W.	2	9	3	4	24	8	6	3	5	0	15	9	7	7	3	1	2	0	0	0	1	2	0
June	8.2	SE.	38	SE.	0	2	1	1	20	13	4	9	10	0	25	4	1	1	1	0	0	0	3	0	2	0	
July	7.1	SE.	36	SE.	0	3	0	1	22	16	11	1	8	0	11	8	12	6	4	0	0	0	6	0	10	0	
August	5.9	SE.	30	SE.	0	5	3	0	26	18	1	0	9	0	14	5	12	11	9	0	0	0	1	0	6	0	
September	7.4	S.	32	NE.	0	4	2	1	13	18	8	9	5	0	18	7	5	4	4	1	0	0	0	0	0	0	
October	6.3	S.	40	SW.	1	1	2	1	8	15	7	2	3	1	9	7	4	1	1	0	1	0	0	0	7	0	
November																											
December																											
Year																											

MOORHEAD, MINN.

[H = 935 ft.; h_t = 54 ft.; h_r = 44 ft.; h_a = 60 ft.]

January	10.4	NW.	52	NW.	1	17	0	3	7	9	1	2	22	1	10	8	13	16	15	16	0	0	29	0	31	0	0
February	10.2	NW.	37	NW.	0	10	1	0	6	10	1	11	15	2	9	7	12	14	10	14	0	1	27	0	28	0	0
March	10.9	NW.	38	NW.	0	14	3	2	8	14	1	4	14	2	11	9	11	8	5	10	0	0	22	0	30	0	0
April	13.2	N.	40	SE.	1	21	6	4	9	7	1	0	11	1	4	12	14	15	13	13	0	1	6	0	22	0	0
May	11.9	N.	54	SE.	5	18	10	3	9	10	3	2	5	2	7	10	14	14	7	0	0	0	0	0	0	1	0
June	13.2	S.	46	SW.	3	7	0	2	18	11	4	7	9	2	8	15	7	14	11	0	0	1	0	5	0	5	0
July	9.2	S.	38	E.	0	11	1	3	5	19	0	3	17	3	12	19	0	12	9	0	1	0	0	3	0	7	0
August	10.7	S.	39	SE.	0	12	0	4	14	16	1	6	7	2	12	17	2	7	5	0	0	0	0	2	0	4	0
September	12.9	SE.	44	SE.	1	10	1	3	15	10	3	5	13	0	15	12	3	6	3	0	0	1	0	0	7	2	0
October	11.1	S.	34	NW.	0	18	0	1	4	16	0	12	10	1	7	14	10	7	6	1	0	0	1	0	13	0	0
November	11.1	NW.	36	SE.	0	9	0	1	5	12	2	9	21	1	4	12	14	3	2	3	0	1	14	0	27	0	0
December	11.1	N.	40	SE.	1	16	0	4	4	16	0	3	16	3	4	14	13	10	5	9	0	0	28	0	31	0	0
Year	11.3	N.	54	SE.	12	163	22	30	104	150	17	64	160	20	103	149	113	126	91	66	1	5	127	10	189	19	0

NANTUCKET, MASS.

[H = 14 ft.; h_t = 43 ft.; h_r = 38 ft.; h_a = 54 ft.]

January	12.7	NW.	48	NE.	3	7	14	6	4	2	4	1	24	0	13	2	16	13	10	9	0	2	18	0	29	0	0
February	15.4	NW.	50	SE.	5	8	4	0	7	1	9	2	25	0	8	6	14	11	11	4	0	1	9	0	27	2	1
March	13.9	NW.	48	SE.	1	10	12	5	7	4	7	4	13	0	11	4	16	12	11	2	0	2	5	0	19	0	0
April	12.1	SW.	54	SE.	2	4	12	3	9	1	15	7	9	0	10	7	13	12	10	0	0	0	4	0	1	2	0
May	10.9	W.	38	SE.	0	7	4	3	8	4	10	14	12	0	14	10	7	11	10	0	0	0	4	0	0	1	1
June	10.7	SW.	35	SE.	0	3	7	7	5	18	13	7	2	0	8	9	13	9	8	0	0	10	0	0	0	0	0
July	8.8	W.	26	NE.	0	7	8	0	2	0	16	18	11	0	12	13	6	7	6	0	0	3	0	0	0	4	0
August	9.3	SW.	52	NE.	1	9	6	0	2	9	15	11	10	0	10	10	11	7	6	0	0	3	0	0	0	0	0
September	11.5	SW.	36	NE.	0	6	15	3	4	3	16	6	7	0	16	1	13	10	10	0	0	0	0	0	0	1	0
October	11.5	E.	36	NE.	0	9	7	11	4	6	9	10	6	0	12	12	7	10	8	0	0	2	0	0	0	0	0
November	12.1	NW.	40	NE.	1	11	6	7	6	2	8	7	13	0	11	7	12	8	7	0	0	0	0	0	3	0	1
December	13.0	NW.	52	NE.	2	18	6	2	5	4	7	5	15	0	11	8	12	15	13	1	0	1	5	0	17	1	0
Year	11.8	NW.	54	SE.	15	99	101	47	63	52	129	92	147	0	136	89	140	125	110	16	0	32	37	0	96	11	3

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893.—Continued.

NARRAGANSETT PIER, R. I.

[λ = 41° 19′ N.; φ = 71° 17′ W.; gravity corr., —.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January						28.4	11.1	19.8	50	—4							2.97	1.07			
February						35.3	19.0	27.2	47	0							6.61	1.23			
March						40.6	25.0	32.8	65	9							4.22	1.41			
April						50.2	34.8	42.5	62	25							4.85	1.59			
May						61.9	46.7	54.3	74	37							5.31	1.60			
June						71.1	56.2	63.6	92	44							2.57	1.50			
July						77.0	60.0	69.0	84	50							.82	.40			
August						75.6	60.6	68.1	83	48							4.85	2.40			
September						67.6	49.5	58.6	76	40							3.42	1.05			
October						60.3	44.9	52.6	70	27							2.80	1.20			
November						49.2	33.5	41.4	63	17							2.72	1.02			
December						42.1	22.6	32.4	58	0							5.08	1.17			
Year						55.0	38.7	46.9	92	—4							46.22	2.40			

NASHVILLE, TENN.

[λ = 36° 10′ N.; φ = 86° 47′ W.; gravity corr., —0.02.]

January	29.47	29.80	28.86	36.6	35.7	42.4	23.1	32.8	66	3	21	24	77	63	.128	.150	1.27	.71	6.0	4.5	5.5
February	29.56	30.23	29.13	38.2	44.7	49.8	33.6	41.7	70	13	34	34	84	68	.205	.208	4.88	1.55	8.2	6.7	7.6
March	29.50	29.88	28.98	42.1	52.3	58.3	38.3	48.3	77	12	34	34	74	52	.215	.215	3.37	1.46	5.2	4.2	5.6
April	29.39	29.67	28.84	56.3	65.8	73.2	51.9	62.6	87	34	48	50	75	60	.359	.377	4.11	1.95	6.0	5.3	6.9
May	29.37	29.72	29.14	61.1	69.7	76.4	56.0	66.2	89	46	56	59	82	71	.449	.511	7.31	1.40	5.0	4.8	5.1
June	29.42	29.64	29.10	70.9	78.5	84.5	65.3	74.9	89	58	64	66	80	68	.600	.655	4.74	4.39	4.8	3.8	5.7
July	29.44	29.60	29.27	76.5	84.3	90.9	71.0	81.0	96	62	69	70	78	64	.713	.737	2.12	.84	3.9	3.0	5.0
August	29.39	29.53	29.17	70.8	80.6	87.7	67.2	77.4	93	59	64	67	80	65	.611	.669	1.92	.92	4.2	2.7	4.5
September	29.44	29.70	29.16	64.1	75.2	81.7	61.0	71.4	96	46	58	62	82	66	.504	.575	6.43	1.91	5.3	3.8	5.0
October	29.50	29.86	29.01	50.0	62.2	70.0	47.5	58.8	85	28	47	51	90	68	.341	.404	3.68	1.84	2.5	1.7	3.1
November	29.53	29.91	29.04	42.1	49.8	55.3	39.7	47.5	73	20	38	42	85	74	.238	.278	2.97	1.01	6.3	4.3	6.3
December	29.62	30.03	29.16	37.0	44.8	51.1	33.3	42.2	70	21	31	36	80	71	.186	.219	3.50	1.90	6.6	3.8	5.8
Year	29.47	30.23	28.84	53.0	62.0	68.4	49.0	58.7	96	3	47	50	81	66	.379	.416	46.30	4.39	5.3	4.0	5.5

NEAH BAY, WASH.

[λ = 48° 23′ N.; φ = 124° 36′ W.; gravity corr., —.]

January						44.5	34.3	39.4	55	8							11.33	2.63			
February						44.1	30.5	37.3	56	5							11.83	1.80			
March						50.3	35.8	43.0	58	27							14.83	2.68			
April						53.8	37.5	45.6	60	32							14.02	3.33			
May						58.8	44.0	51.4	67	40							6.73	.98			
June						63.7	45.9	54.8	77	37							7.99	1.48			
July						67.5	50.4	59.0	71	43							1.67	.75			
August (a)						68.4	49.7	59.0	76	42							1.06	.61			
September						62.3	46.7	54.5	72	38							5.69	1.76			
October						54.6	41.4	48.0	60	27							11.44	2.05			
November						48.3	36.0	42.2	56	26							14.83	2.06			
December						50.9	39.0	45.0	59	30							17.46	2.00			
Year						55.6	40.9	48.3	77	5							118.88	3.33			

NEW BRUNSWICK, N. J.

[λ = 40° 30′ N.; φ = 74° 27′ W.; gravity corr., —.]

January						28.3	12.7	20.5	52	—10							2.53	1.20			
February						35.7	21.5	28.6	54	6							5.73	1.37			
March						43.4	28.4	35.9	60	11							3.22	1.17			
April						58.4	39.6	49.0	77	29							4.89	1.43			
May						70.7	48.9	59.8	92	38							3.60	1.50			
June						81.4	58.7	70.0	98	48							3.05	1.06			
July						86.7	62.3	74.5	97	51							2.02	.76			
August						84.3	62.5	73.4	95	50							9.91	2.60			
September						72.2	52.1	62.2	82	38							3.10	1.19			
October						64.4	44.5	54.4	78	24							4.15	1.90			
November						49.6	32.3	41.0	61	19							3.93	1.74			
December						41.2	25.2	33.2	61	9							3.12	1.24			
Year						59.7	40.7	50.2	98	—10							49.31	3.60			

a For 28 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

NARRAGANSETT PIER, R. I.

[H = — ft.; h_t = 9 ft.; h_r = 2 ft.; h_a = —.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	.....	NW.	....	.....	....	2	3	1	2	0	10	1	12	0	18	3	10	14	12	5	0	0	18	0	30	0	0
February	.....	SW.	....	.....	....	2	5	0	0	0	11	5	5	0	7	6	15	14	11	4	0	0	5	0	26	1	0
March	.....	NW.	....	.....	....	3	7	0	1	3	6	1	10	0	17	2	12	11	9	3	0	0	5	0	22	1	0
April	.....	SW.	....	.....	....	0	6	1	4	1	13	0	5	0	10	1	19	15	12	2	0	0	0	0	8	1	0
May	.....	SW.	....	.....	....	0	5	0	3	3	15	0	5	0	13	6	12	15	11	0	0	0	0	0	0	0	0
June	.....	NE.	....	.....	....	2	12	0	5	1	9	0	1	0	13	4	13	12	8	0	0	1	0	1	0	1	0
July	.....	SW.	....	.....	....	0	2	0	1	3	22	1	2	0	15	5	11	9	6	0	0	1	0	0	0	3	0
August	.....	SW.	....	.....	....	1	4	0	3	1	20	2	0	0	12	4	15	8	7	0	0	0	0	0	0	1	0
September	.....	SW.	....	.....	....	0	2	0	5	1	17	4	1	0	16	4	10	10	9	0	0	0	0	0	0	1	0
October	.....	SW.	....	.....	....	1	5	3	3	1	12	2	4	0	16	3	12	4	4	0	0	0	0	0	2	0	0
November	.....	SW.	....	.....	....	1	4	0	3	0	10	3	9	0	18	2	10	6	5	0	0	0	0	0	14	0	0
December	.....	NW.	....	.....	....	1	4	0	2	0	9	2	13	0	18	3	10	13	13	4	0	0	4	0	26	0	0
Year	.....	SW.	....	.....	....	13	59	5	32	14	154	21	67	0	173	43	149	131	107	18	0	2	32	1	128	9	0

NASHVILLE, TENN.

[H = 553 ft.; h_t = 98 ft.; h_r = 85 ft.; h_a = 107 ft.]

January	6.6	NW.	30	NW.	0	6	0	1	6	14	6	5	19	5	12	7	12	11	5	2	0	0	10	0	21	0	0
February	7.8	S.	30	S.	0	15	1	5	1	14	4	3	11	2	5	3	20	12	10	2	0	1	1	0	10	2	1
March	7.8	S.	42	SW.	1	8	6	0	6	18	8	5	9	2	11	7	13	10	6	2	2	0	1	0	8	3	0
April	8.3	SW.	36	SE.	0	6	9	3	13	9	14	2	3	1	7	6	17	11	10	0	0	0	0	0	0	10	0
May	6.1	NW.	30	NW.	0	5	8	4	5	12	9	4	15	0	13	6	12	14	12	0	0	0	0	0	0	9	0
June	5.0	NW.	31	SE.	0	7	12	2	7	11	4	2	14	1	10	8	12	10	6	0	0	0	0	0	0	11	0
July	4.0	NW.	36	SW.	0	7	8	2	2	1	17	8	16	1	13	8	10	10	8	0	0	0	0	18	0	12	0
August	4.4	NE.	24	NW.	0	8	13	10	9	3	5	2	6	6	13	8	10	8	6	0	0	3	0	8	0	5	0
September	4.1	Calm. SW.	26	SE.	0	14	1	4	10	11	9	2	3	6	14	4	12	10	10	0	0	0	0	0	5	0	0
October	3.9	Calm. NW.	24	NW.	0	9	1	6	9	5	3	5	14	10	22	3	6	6	6	0	0	6	0	0	2	1	0
November	5.4	NW.	29	SE.	0	2	9	7	10	5	5	2	16	4	7	9	14	5	4	0	0	1	0	0	7	0	0
December	6.7	NW.	26	S.	0	4	6	3	16	9	6	1	14	3	10	4	17	9	6	3	0	0	0	0	16	0	0
Year	5.8	NW.	42	SW.	1	91	74	47	94	112	90	41	140	41	137	73	155	116	89	9	2	11	12	31	64	58	1

NEAH BAY, WASH.

[H = — ft.; h_t = 0.5 ft.; h_r = 0.5 ft.; h_a = — ft.]

January	.....	E.	....	.....	....	0	1	19	7	1	2	1	0	0	5	5	21	15	14	4	0	0	3	0	10	0	0
February	.....	E.	....	.....	....	0	0	12	7	0	6	3	0	0	2	3	23	20	20	6	0	0	2	0	11	0	0
March	.....	SE.	....	.....	....	0	0	8	9	1	8	4	0	1	1	4	26	16	16	0	0	0	0	0	5	0	0
April	.....	SW.	....	.....	....	0	0	0	6	1	17	5	0	1	2	2	26	22	22	1	1	0	0	0	0	0	0
May	.....	SW.	....	.....	....	0	0	0	8	1	15	6	0	1	5	4	22	18	18	0	0	0	0	0	0	0	0
June	.....	SW.	....	.....	....	0	0	1	3	0	18	7	0	1	5	8	17	14	14	0	0	0	0	0	0	0	0
July	.....	SW.	....	.....	....	0	0	0	1	2	18	6	0	4	8	8	15	5	5	0	0	0	0	0	0	0	0
August	.....	SW.	....	.....	....	0	0	6	0	1	17	4	0	0	16	6	6	2	2	0	0	1	0	0	0	0	0
September	.....	SW.	....	.....	....	0	0	2	3	4	17	4	0	0	7	7	16	9	9	0	0	1	0	0	0	0	0
October	.....	E.	....	.....	....	0	0	9	5	1	6	7	0	3	9	2	20	17	17	0	0	0	0	0	2	0	0
November	.....	E.	....	.....	....	0	0	12	7	2	2	4	0	3	6	6	18	19	19	1	0	0	0	0	8	0	0
December	.....	SW.	....	.....	....	0	0	3	10	1	12	4	0	1	0	2	29	25	25	2	0	0	0	0	3	0	0
Year	.....	SW.	....	.....	....	0	1	72	66	15	138	55	0	15	66	57	239	182	181	14	1	2	5	0	39	0	0

NEW BRUNSWICK, N. J.

[H = — ft.; h_t = 4 ft.; h_r = 2 ft.; h_a = — ft.]

January	.....	NW.	....	.....	....	0	5	4	1	0	3	9	9	0	4	13	14	9	7	6	0	0	18	0	30	0	0
February	.....	NW.	....	.....	....	0	2	4	2	0	7	3	10	0	1	10	17	12	11	7	0	1	8	0	25	0	0
March	.....	NW.	....	.....	....	1	3	5	3	0	6	6	7	0	2	16	13	13	11	2	0	1	4	0	19	1	0
April	.....	E.	....	.....	....	0	2	7	5	0	6	5	5	0	0	19	11	14	10	1	0	1	0	0	1	2	1
May	.....	SW.	....	.....	....	0	1	6	5	1	10	3	5	0	4	15	12	10	8	0	0	0	1	0	3	0	0
June	.....	E.	....	.....	....	4	7	9	2	0	6	0	2	0	3	15	12	9	8	0	0	0	0	0	4	0	0
July	.....	SW.	....	.....	....	3	3	2	1	4	7	5	6	0	6	24	1	9	6	0	0	0	0	0	0	0	0
August	.....	SW.	....	.....	....	0	3	5	0	5	7	4	7	0	5	21	5	12	9	0	1	0	0	0	5	0	0
September	.....	W.	....	.....	....	1	2	5	1	2	6	12	1	0	4	17	9	8	7	0	0	0	0	0	0	3	0
October	.....	NW.	....	.....	....	0	3	8	3	0	3	4	10	0	9	12	10	7	6	0	0	0	4	0	3	1	0
November	.....	W.	....	.....	....	1	4	3	1	3	5	7	6	0	4	12	14	9	9	0	0	1	0	0	15	0	1
December	.....	NW.	....	.....	....	1	3	2	3	1	7	7	7	0	2	18	11	14	9	6	0	4	4	0	23	0	0
Year	.....	NW.	....	.....	....	11	36	60	27	16	73	65	75	0	44	192	129	12	101	22	1	12	34	22	116	27	2

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

NEW HAVEN, CONN.

[λ = 41° 18′ N; φ = 72° 56′ W; gravity corr., — 0.01.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.82	30.40	29.03	16.6	20.9	27.6	12.9	20.2	53	—3	10	15	73	77	.075	.098	3.47	1.06	5.4	4.0	5.2
February	29.97	30.67	28.92	22.7	27.9	32.8	19.0	25.9	51	2	17	23	77	81	.104	.133	6.23	1.44	5.5	5.3	6.0
March	29.92	30.45	29.26	30.6	34.3	40.1	27.3	33.7	52	13	24	30	74	83	.131	.169	4.50	1.32	5.4	4.1	5.0
April	29.94	30.44	29.34	41.4	45.5	52.9	37.4	45.2	66	29	36	41	82	85	.215	.263	3.84	1.40	6.3	4.9	6.2
May	29.76	30.16	29.10	54.9	56.8	65.1	48.6	56.8	87	41	47	51	77	82	.329	.383	7.08	3.10	4.6	5.5	5.1
June	29.89	30.19	29.52	64.5	66.6	74.5	58.2	66.4	96	48	58	61	82	84	.496	.549	2.07	.89	5.8	6.0	5.6
July	29.82	30.09	29.48	70.3	71.4	80.3	61.5	70.9	92	51	60	64	70	77	.523	.593	1.89	.64	2.9	4.9	4.0
August	29.84	30.11	29.38	68.5	71.2	79.4	61.9	70.6	89	52	61	64	77	78	.541	.604	4.86	1.31	4.1	3.8	4.1
September	29.91	30.27	29.53	57.5	60.9	69.2	51.0	60.1	80	41	50	55	76	81	.373	.446	2.24	.65	5.3	4.0	4.6
October	29.99	30.46	29.23	51.6	55.4	62.2	46.3	54.2	76	28	42	46	71	72	.286	.328	4.75	2.07	4.1	4.8	4.7
November	29.98	30.52	29.50	38.1	42.1	48.3	33.8	41.0	59	19	29	36	69	78	.167	.219	2.56	1.03	4.8	4.4	5.4
December	29.99	30.76	29.27	28.4	31.7	37.8	24.1	31.0	57	6	20	24	71	75	.121	.147	3.22	.66	5.1	4.1	5.6
Year	29.90	30.76	28.92	45.4	48.7	55.8	40.2	48.0	96	—3	38	42	75	79	.280	.328	46.71	3.10	4.9	4.6	5.1

NEW LONDON, CONN.

[λ = 41° 21′ N.; φ = 72° 05′ W.; gravity corr., — 0.01.]

January	29.88	30.47	29.09	17.2	21.9	28.4	13.5	21.0	50	—4	11	14	74	71	.077	.090	2.46	.62	5.1	3.2	5.4
February	30.04	30.74	28.90	25.3	28.4	34.9	20.2	27.6	48	3	19	22	75	75	.114	.126	5.93	1.36	5.4	5.5	6.3
March	29.99	30.50	29.33	32.3	34.2	39.9	27.4	33.6	54	13	24	26	72	71	.138	.145	5.38	2.46	5.5	4.2	5.7
April	30.01	30.50	29.44	41.7	43.3	50.9	37.4	44.2	62	29	34	36	76	78	.201	.219	3.12	.72	5.9	5.6	5.9
May	29.84	30.24	29.24	54.5	54.6	62.0	48.0	55.0	83	38	47	47	77	78	.326	.325	5.02	2.05	5.3	5.0	5.3
June	29.96	30.27	29.60	63.5	62.6	71.4	57.1	64.2	95	49	58	58	85	86	.497	.490	3.60	2.25	6.7	5.3	5.9
July	29.89	30.15	29.53	70.2	69.2	77.7	61.5	69.6	89	52	60	61	71	76	.532	.540	1.51	.59	3.4	4.3	3.6
August	29.92	30.17	29.53	68.0	68.9	76.6	61.8	69.2	85	52	62	63	81	82	.558	.580	3.69	1.41	4.0	3.7	4.4
September	29.98	30.34	29.62	58.2	60.4	67.8	51.2	59.5	77	40	51	52	78	76	.390	.411	2.29	.66	5.2	4.0	4.5
October	30.06	30.53	29.36	51.9	54.6	61.5	46.6	54.0	71	31	46	47	79	76	.326	.325	2.20	1.18	4.1	3.7	4.5
November	30.07	30.61	29.56	39.4	42.7	48.7	34.8	41.8	64	21	33	35	79	72	.201	.209	2.42	1.02	4.6	4.1	5.3
December	30.07	30.68	29.38	30.7	32.9	39.9	24.7	32.3	58	5	24	26	77	73	.145	.151	4.10	.77	6.4	3.7	5.8
Year	29.98	30.74	28.90	46.1	47.8	55.0	40.4	47.7	95	—4	39	41	77	76	.292	.302	41.72	2.46	5.1	4.4	5.2

NEW ORLEANS, LA.

[λ = 29° 58′ N.; φ = 90° 4′ W.; gravity corr., — 0.04.]

January	30.07	30.43	29.75	44.6	52.2	58.5	42.0	50.2	72	29	38	38	79	82	.248	.256	2.50	1.53	3.6	2.6	3.7
February	30.06	30.50	29.74	57.3	62.0	68.9	53.4	61.2	79	39	52	52	84	73	.411	.413	4.92	2.72	4.8	6.3	4.8
March	30.06	30.44	29.72	55.4	62.6	68.6	53.0	60.8	79	31	47	50	74	66	.355	.395	3.49	1.21	5.1	4.2	4.3
April	29.99	30.20	29.51	66.3	71.9	79.1	64.0	71.6	84	55	62	62	97	71	.579	.564	3.70	2.88	5.7	4.7	5.0
May	29.91	30.16	29.70	73.1	76.7	83.2	68.3	75.8	90	60	67	66	82	72	.673	.662	2.66	1.04	3.8	4.9	4.5
June	29.92	30.11	29.67	78.3	80.1	87.1	73.3	80.2	94	69	73	71	84	75	.810	.758	5.30	3.02	5.0	6.2	4.8
July	30.00	30.12	29.87	81.0	82.1	90.3	75.9	83.1	94	73	74	73	80	74	.830	.803	3.72	1.04	3.7	6.5	4.7
August	29.91	30.03	29.74	78.2	82.0	88.8	75.1	82.0	93	72	71	71	78	79	.758	.752	4.56	1.06	3.3	6.4	4.9
September	29.92	30.07	29.47	75.5	80.2	86.9	72.6	79.8	95	66	69	70	81	73	.717	.737	4.38	1.98	3.6	3.9	3.9
October	30.00	30.29	29.43	63.9	70.2	76.4	61.8	69.1	86	48	56	58	75	67	.468	.501	4.24	2.75	2.6	1.6	2.1
November	30.07	30.38	29.81	55.5	60.6	67.8	52.8	60.3	80	36	52	53	88	77	.410	.422	6.24	3.35	4.8	3.1	4.1
December	30.18	30.41	29.73	53.2	58.7	66.2	50.5	58.4	79	33	50	48	87	70	.382	.366	2.31	1.08	3.3	2.6	3.6
Year	30.01	30.50	29.47	65.2	69.9	76.8	61.9	69.4	95	29	59	59	82	71	.553	.552	48.02	3.35	4.1	4.4	4.2

NEW YORK CITY, N. Y.

[λ = 40° 43′ N.; φ = 74° 0′ W.; gravity corr., —0.01.]

January	29.77	30.30	29.02	21.1	24.4	29.3	17.3	23.3	52	1	15	16	74	68	.089	.096	3.56	1.12	5.5	4.5	6.0
February	29.92	30.59	28.86	27.2	31.8	36.2	23.0	29.6	54	4	19	22	71	68	.116	.126	7.81	1.93	5.5	6.1	6.6
March	29.86	30.38	29.20	33.7	38.4	42.6	29.7	36.2	53	14	25	28	71	68	.143	.162	4.47	1.87	4.5	5.9	5.9
April	29.87	30.36	29.34	44.4	49.0	55.1	40.6	47.8	70	32	36	39	72	70	.217	.244	6.86	2.23	5.3	5.2	5.9
May	29.70	30.14	28.93	56.1	60.3	66.4	51.5	59.0	86	42	45	47	69	65	.309	.334	5.06	3.04	3.9	5.7	5.4
June	29.82	30.12	29.44	65.8	69.8	77.2	61.6	69.4	96	53	59	60	79	72	.500	.519	2.56	1.03	5.3	5.8	5.9
July	29.77	30.04	29.42	71.2	75.9	83.4	66.2	74.8	93	58	61	63	74	70	.558	.592	7.18	3.83	4.4	4.2	4.7
August	29.78	30.03	29.09	70.5	74.4	82.3	66.5	74.4	93	56	59	60	66	60	.512	.537	1.26	.51	3.8	4.9	4.4
September	29.85	30.17	29.46	61.3	65.2	71.5	57.2	64.4	84	45	52	55	72	71	.404	.450	2.27	1.04	4.9	4.5	4.2
October	29.92	30.35	29.09	53.8	58.1	64.8	50.4	57.6	78	34	47	48	78	72	.339	.361	5.28	2.56	3.3	3.5	3.7
November	29.92	30.46	29.49	40.8	44.8	50.3	38.0	44.2	62	26	33	36	74	71	.196	.216	3.73	1.50	4.2	4.9	5.4
December	29.93	30.68	29.24	32.8	35.3	41.4	28.8	35.1	63	13	27	27	77	72	.153	.157	3.49	1.00	6.4	2.9	6.3
Year	29.84	30.68	28.86	48.2	52.3	58.4	44.2	51.3	96	1	40	42	73	69	.295	.316	53.01	3.83	4.8	4.7	5.4

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

NEW HAVEN, CONN.

[H=107 ft.; h_t=118 ft.; h_r=110 ft.; h_a=126 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.01 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	9.2	N.	37	SE.	0	10	14	0	1	2	9	15	11	0	12	9	10	17	13	15	0	2	21	0	30	0	0
February	10.5	NW.	46	NW.	1	16	11	0	4	1	7	7	10	0	8	7	13	17	14	11	0	1	12	0	26	1	2
March	10.2	N.	44	NE.	1	16	14	1	1	7	9	5	9	0	13	9	9	13	10	3	0	2	5	0	22	1	0
April	9.4	S.	38	NW.	0	11	15	2	9	6	7	6	4	0	7	9	14	14	8	2	0	4	0	0	3	2	0
May	8.8	SW.	35	SW.	0	11	6	4	8	11	13	3	6	0	14	6	11	14	13	0	0	0	0	0	0	2	0
June	7.3	NE.	25	SW.	0	10	14	6	9	7	7	1	5	1	9	9	12	14	8	0	0	0	0	1	0	5	0
July	7.2	SW.	31	NW.	0	7	11	0	2	4	19	7	12	0	15	15	1	11	8	0	0	0	0	2	0	6	0
August	8.2	S.	57	S.	2	15	8	3	9	8	10	3	6	0	16	7	8	13	10	0	0	1	0	0	0	6	1
September	7.9	N.	29	NW.	0	19	10	1	4	5	6	8	7	0	13	8	9	12	10	0	1	0	0	0	0	4	0
October	8.6	N.	50	SE.	1	15	8	4	6	4	12	5	8	0	10	15	6	6	6	0	0	1	0	0	2	0	0
November	9.1	SW.	45	SE.	1	16	8	2	1	2	12	12	7	0	9	13	8	9	5	0	0	0	0	0	13	0	1
December	9.0	SW.	34	N.	0	11	9	0	2	0	16	11	13	0	11	9	11	18	14	8	0	1	8	0	23	0	0
Year	8.8	N.	57	S.	6	157	128	23	56	57	127	83	98	1	137	116	112	158	119	39	1	12	46	3	119	27	0

NEW LONDON, CONN.

[H=45 ft.; h_t=50 ft.; h_r=42 ft.; h_a=54 ft.]

January	7.2	NW.	50	SE.	2	8	10	0	1	2	2	13	25	1	11	10	10	16	12	11	0	2	19	0	30	0	0
February	8.9	NW.	42	S.	1	6	4	5	2	4	4	7	24	0	7	11	10	17	14	10	0	2	7	0	26	0	4
March	8.5	NW.	30	NW.	0	9	7	2	3	3	8	6	24	0	9	11	11	13	12	3	0	3	4	0	22	1	0
April	8.4	NW.	38	E.	0	6	4	5	13	3	11	4	14	0	10	7	13	15	10	2	0	6	0	0	5	2	0
May	8.1	SW.	44	E.	2	4	1	9	11	4	17	9	7	0	14	7	10	15	12	0	0	0	0	0	0	2	0
June	6.2	SE.	24	SE.	0	8	4	5	19	5	7	5	7	0	9	9	12	12	9	0	0	2	0	1	0	1	0
July	5.0	W.	24	NW.	0	3	1	0	6	7	14	16	15	0	19	10	2	8	7	0	0	1	0	0	0	5	0
August	7.0	NW.	57	SE.	2	3	2	5	9	7	6	7	22	1	16	8	7	10	10	0	0	7	0	0	0	1	2
September	6.9	NW.	34	S.	0	10	2	1	4	3	7	6	27	0	13	9	8	12	10	0	0	2	0	0	0	3	1
October	8.0	NW.	63	SE.	2	5	8	6	7	4	5	7	20	0	13	14	4	5	4	0	0	4	0	0	1	0	0
November	8.2	W.	46	SE.	1	11	4	1	3	6	4	16	14	1	11	11	8	7	7	0	0	0	0	0	11	0	1
December	8.2	NW.	34	S.	0	9	2	2	1	4	11	12	21	0	9	10	12	17	15	7	0	2	7	0	23	0	0
Year	7.6	NW.	63	SE.	10	82	49	41	79	52	96	108	220	3	141	117	107	147	122	33	0	31	37	1	118	15	8

NEW ORLEANS, LA.

[H=54 ft.; h_t=112 ft.; h_r=111 ft.; h_a=120 ft.]

January	9.5	N.	32	NW.	0	12	11	11	3	3	5	13	3	1	19	6	6	7	6	0	0	4	0	0	2	1	0
February	10.6	N.	30	NE.	0	16	13	6	6	6	4	3	1	1	11	9	8	10	9	0	0	0	0	0	0	2	0
March	11.1	S.	38	W.	0	12	11	6	6	14	5	4	4	0	14	9	8	9	7	0	0	0	0	0	1	2	0
April	10.1	S.	48	N.	1	4	4	3	4	37	4	3	1	0	12	8	10	2	2	0	0	0	0	0	0	1	0
May	8.9	SE.	36	S.	0	3	13	4	30	6	2	3	1	0	12	15	4	7	4	0	0	0	0	0	0	1	0
June	8.4	SE.	37	N.	0	3	11	4	15	9	8	5	5	0	13	10	7	13	11	0	0	0	0	6	0	5	0
July	5.9	SE.	25	N.	0	6	4	3	17	7	9	11	4	1	11	15	5	12	11	0	0	0	0	0	0	12	0
August	7.3	N.	36	N.	0	7	10	4	7	10	9	6	9	0	11	11	9	12	12	0	0	0	0	10	0	7	0
September	8.1	SE.	36	NE.	0	9	11	9	16	10	2	1	1	1	19	5	6	11	10	0	0	0	0	6	0	3	0
October	9.7	N.	48	NE.	3	15	22	3	4	4	0	1	12	1	23	5	3	6	6	0	0	0	0	0	0	1	0
November	8.7	NE.	36	SE.	0	6	15	11	12	6	3	2	5	0	14	10	6	9	7	0	0	1	0	0	0	2	0
December	9.2	SE.	48	N.	1	10	9	10	14	8	3	2	5	1	17	10	4	4	4	0	0	6	0	0	0	1	0
Year	9.0	NE.	48	N. NE.	5	103	134	74	134	120	54	54	51	6	176	113	76	102	89	0	0	11	0	40	3	38	0

NEW YORK CITY, N. Y.

[H=185 ft.; h_t=183 ft.; h_r=155 ft.; h_a=200 ft.]

January	11.8	NW.	48	SE.	1	5	10	1	3	4	13	7	19	0	6	14	11	12	10	9	0	3	19	0	30	0	0
February	13.6	NW.	45	NW.	6	4	6	3	5	4	9	1	24	0	5	10	13	13	13	8	0	6	7	0	25	0	0
March	12.5	NW.	40	NW.	1	5	12	0	9	3	7	5	21	0	7	14	10	15	13	5	0	8	2	0	20	2	0
April	11.7	SE.	40	NE.	1	4	11	5	16	1	6	4	13	0	8	9	13	15	9	1	0	7	0	0	0	3	0
May	11.4	SW.	45	NE.	1	1	11	1	11	12	13	2	11	0	12	8	11	11	8	0	0	3	0	0	0	0	0
June	8.7	NE.	40	SW.	1	5	15	7	6	6	6	4	11	0	6	16	8	8	7	0	0	3	0	4	0	1	0
July	9.5	NW.	36	SW.	0	1	3	2	14	8	12	4	18	0	9	19	3	9	7	0	0	0	0	3	0	7	0
August	9.6	S.	54	SE.	2	5	5	0	16	14	5	2	15	0	11	13	7	11	9	0	0	1	0	1	0	4	0
September	9.6	NW.	30	NW.	0	5	5	3	12	5	12	5	13	0	15	8	7	12	9	0	0	0	0	1	0	2	0
October	10.0	NW.	48	SE.	2	4	10	3	9	7	10	1	17	1	17	7	7	8	6	0	0	1	0	0	0	0	0
November	10.8	SW.	41	SE.	1	5	7	3	4	6	18	8	9	0	9	12	9	9	8	0	0	2	0	0	7	0	0
December	11.6	SW.	42	NW.	1	1	6	1	2	14	18	4	15	1	5	15	11	15	11	6	0	6	5	0	20	0	0
Year	10.9	NW.	54	SE.	17	45	101	29	107	84	129	47	186	2	110	145	110	138	110	29	0	40	33	8	102	19	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

NORFOLK, VA.

[λ = 36° 51′ N.; φ = 76° 17′ W.; gravity corr., −0.02.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.97	30.40	29.28	26.2	31.2	38.7	22.2	30.4	67	6	22	24	83	75	.127	.142	2.55	.98	4.6	3.4	5.2
February	30.11	30.72	29.44	38.5	43.3	49.6	34.2	41.9	70	23	35	39	87	85	.218	.252	4.04	1.50	5.1	5.5	5.5
March	30.03	30.50	29.25	42.6	45.8	53.1	38.2	45.6	78	24	39	42	87	85	.250	.278	3.32	.97	4.5	4.7	5.5
April	30.01	30.37	29.49	57.6	58.4	69.1	50.2	59.6	87	40	51	52	80	80	.394	.403	2.07	.90	5.7	3.2	4.9
May	29.88	30.33	29.38	64.6	65.9	75.3	57.2	66.2	90	49	58	60	79	82	.489	.526	6.79	2.14	3.3	5.4	4.3
June	29.96	30.21	29.56	72.2	73.2	81.7	66.1	73.9	93	59	67	68	83	83	.658	.682	8.36	5.97	3.8	5.3	4.8
July	29.95	30.21	29.75	76.6	77.4	87.7	70.3	79.0	95	62	70	70	80	78	.725	.735	6.11	3.60	3.8	4.7	4.0
August	29.93	30.11	29.62	75.2	75.1	83.3	70.0	76.6	91	62	69	70	82	83	.723	.726	5.71	1.97	5.5	4.6	5.6
September	30.00	30.20	29.72	67.8	70.1	78.1	63.7	70.9	89	51	63	63	84	79	.581	.586	6.29	3.02	4.3	4.1	4.8
October	30.04	30.46	29.22	59.6	60.7	68.3	55.4	61.8	83	40	54	53	82	78	.434	.426	2.86	1.78	3.5	3.0	4.2
November	30.07	30.62	29.67	47.1	51.1	56.8	43.8	50.3	74	25	42	44	84	79	.285	.310	6.75	5.48	5.5	4.1	5.6
December	30.14	30.79	29.56	41.2	46.3	53.7	37.1	45.4	73	28	36	39	82	77	.225	.252	3.05	1.16	3.5	3.4	4.6
Year	30.01	30.79	29.22	55.8	58.2	66.3	50.7	58.5	95	6	50	52	83	80	.426	.443	57.90	5.97	4.4	4.3	4.9

NORTHFIELD, VT.

[λ = 44° 10′ N.; φ = 72° 41′ W.; gravity corr., 0.]

January	28.95	29.57	28.13	2.2	8.9	15.6	−4.2	5.7	45	−26	−4	3	72	76	.047	.059	1.78	1.02	6.4	4.9	6.5
February	29.09	29.82	28.21	9.6	15.4	23.9	3.5	13.7	48	−20	5	11	80	81	.064	.076	2.47	.75	6.4	6.6	6.9
March	29.06	29.58	28.59	20.5	26.2	34.1	14.4	24.2	53	−10	16	20	80	74	.097	.112	1.21	.58	7.0	4.0	6.0
April	29.09	29.58	28.51	36.2	37.6	46.0	26.9	36.4	62	11	25	27	72	68	.138	.152	1.63	.62	6.7	5.3	6.6
May	28.94	29.34	28.37	51.4	53.6	63.7	41.4	52.6	89	28	42	45	73	74	.273	.301	3.97	1.35	6.2	5.5	6.1
June	29.09	29.33	28.78	64.1	65.3	76.7	53.3	65.0	89	43	55	58	74	77	.441	.480	2.07	.67	5.6	5.5	5.7
July	28.99	29.23	28.68	64.3	64.0	75.9	51.6	63.8	86	41	56	57	75	79	.447	.469	3.74	.81	6.0	5.2	5.7
August	29.06	29.34	28.43	63.0	63.9	75.3	54.0	64.6	91	36	58	58	83	84	.486	.500	6.14	1.56	5.4	5.2	5.7
September	29.08	29.42	28.63	49.3	51.7	62.8	40.9	51.8	76	27	45	47	86	84	.312	.332	1.91	.60	5.1	5.7	6.0
October	29.15	29.60	28.29	43.0	48.0	58.3	36.9	47.6	76	14	39	41	85	77	.250	.269	1.54	.50	5.2	4.9	5.6
November	29.10	29.63	28.54	29.8	35.0	42.1	23.5	32.8	60	2	25	26	81	74	.139	.145	1.98	1.06	7.3	6.0	6.7
December	29.09	29.83	28.41	13.0	19.3	26.7	6.1	16.4	54	−27	6	14	74	78	.085	.100	2.92	.90	6.7	6.1	6.7
Year	29.06	29.83	28.13	37.2	40.7	50.1	29.0	39.6	91	−27	31	34	78	77	.232	.250	30.36	1.56	6.2	5.4	6.2

NORTH PLATTE, NEBR.

[λ = 41° 8′ N.; φ = 100° 45′ W.; gravity corr., −0.01.]

January	27.05	27.41	26.42	19.8	28.6	39.1	15.7	27.4	60	−5	14	19	76	66	.085	.107	.03	.01	4.6	4.6	5.1
February	27.08	27.60	26.62	13.1	26.3	37.0	10.0	23.5	60	−16	7	16	74	64	.068	.099	.62	.26	5.0	4.3	4.9
March	27.02	27.49	26.48	22.9	37.4	44.5	21.6	33.0	85	−8	16	25	73	61	.093	.149	1.29	.89	5.4	5.7	5.5
April	26.97	27.28	26.41	34.7	52.5	58.0	32.3	45.2	80	19	24	27	64	40	.128	.152	.15	.12	4.7	5.6	5.6
May	27.01	27.30	26.39	46.9	63.8	68.8	42.4	55.6	88	26	38	39	72	44	.234	.244	1.83	.88	3.9	4.7	4.7
June	27.02	27.33	26.74	61.4	77.2	82.3	57.3	69.8	96	41	53	53	75	47	.407	.412	4.11	1.64	3.4	4.7	4.2
July	27.08	27.35	26.77	64.6	81.2	86.0	61.3	73.6	96	51	58	59	80	49	.485	.504	1.13	.44	4.1	4.1	4.5
August	27.11	27.36	26.86	58.7	76.0	81.0	56.7	68.8	92	40	53	54	82	49	.415	.437	3.62	1.74	4.2	3.7	4.2
September	27.04	27.42	26.57	51.3	71.5	79.3	49.4	64.4	96	27	41	43	70	40	.272	.290	.32	.32	2.3	2.3	2.5
October	27.07	27.43	26.74	35.3	54.6	65.5	33.5	49.5	89	19	27	32	71	44	.151	.183	.05	.04	3.2	3.8	3.9
November	27.07	27.39	26.62	22.4	37.7	50.0	20.0	35.0	74	1	15	22	70	53	.085	.121	.11	.08	4.3	3.6	4.4
December	27.10	27.46	26.73	21.9	31.2	41.7	17.3	29.5	62	−2	15	20	75	60	.088	.105	.40	.36	5.0	3.4	4.5
Year	27.05	27.60	26.39	37.8	53.2	61.1	34.8	47.9	96	−16	30	34	74	51	.209	.233	13.16	1.74	4.2	4.2	4.5

OKLAHOMA CITY, OKLA.

[λ = 35° 26′ N.; φ = 97° 33′ W.; gravity corr., −0.02.]

January	28.79	29.22	28.29	29.0	37.9	49.8	25.5	37.6	78	−2	24	30	82	72	.138	.174	.43	.39	3.1	1.9	3.9
February	28.81	29.51	28.23	28.0	40.3	47.2	24.5	35.8	74	6	23	29	80	66	.132	.168	.09	.20	6.0	5.0	5.2
March	28.71	29.31	28.12	39.3	55.6	62.7	37.6	50.2	84	9	32	37	75	52	.198	.224	1.25	.77	4.5	2.5	2.6
April	28.58	28.88	28.19	53.4	67.1	74.6	50.3	62.4	95	34	44	45	73	49	.329	.325	3.12	1.13	4.9	3.0	3.3
May	28.62	28.89	28.13	58.7	70.3	75.5	55.4	65.4	88	38	52	54	81	59	.406	.430	1.53	.85	4.9	3.1	3.1
June	28.65	29.00	28.44	66.8	81.4	87.0	65.4	76.2	101	52	63	63	83	54	.591	.581	1.80	1.27	4.0	3.3	3.1
July	28.71	28.88	28.54	73.7	84.7	91.5	70.8	81.2	97	64	66	67	78	56	.644	.658	3.80	1.59	4.1	2.2	2.3
August	28.72	28.96	28.53	68.0	78.9	84.7	65.8	75.2	95	50	64	65	86	64	.605	.627	5.65	2.17	4.2	2.5	4.2
September	28.68	29.00	28.27	64.4	78.3	86.5	62.4	74.4	101	45	55	57	73	51	.442	.474	3.20	1.66	2.6	2.1	1.9
October	28.76	29.12	28.33	49.4	64.6	75.9	47.5	61.7	88	32	40	44	69	48	.250	.300	.96	.90	1.1	0.5	0.5
November	28.79	29.10	28.36	37.4	46.7	56.8	34.1	45.4	82	18	30	34	76	62	.178	.203	1.26	.82	3.1	3.0	2.2
December	28.86	29.28	28.29	36.8	45.2	53.8	33.6	43.7	73	14	32	36	82	70	.200	.223	1.69	.90	3.5	3.2	3.9
Year	28.72	29.51	28.12	50.6	62.6	70.5	47.7	59.1	101	−2	44	47	78	58	.343	.366	24.28	2.17	3.8	2.7	3.0

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

NORFOLK, VA.

[H = 57 ft.; h_t = 88 ft.; h_r = 80 ft.; h_a = 93 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.4	NW.	36	NW.	0	11	4	1	3	7	7	4	24	1	12	9	10	11	10	7	0	1	14	0	26	0	0
February	11.1	NE.	42	NW.	1	4	15	3	6	4	10	8	6	0	10	7	11	11	10	0	0	1	1	0	11	0	0
March	10.1	NE.	45	NW.	1	10	16	2	9	4	10	3	8	0	13	5	13	13	9	2	1	1	0	0	7	1	0
April	11.5	SW.	38	S.	0	6	8	11	7	9	14	2	3	0	11	14	5	11	7	0	0	0	0	0	0	3	0
May	9.3	SW.	32	NW.	0	3	7	8	10	9	10	0	7	2	15	10	6	11	10	0	0	0	0	0	0	5	0
June	8.2	NE.	32	NW.	0	0	19	6	6	3	15	2	8	1	10	16	4	8	7	0	0	0	0	1	0	5	0
July	7.2	SW.	40	NW.	1	2	13	5	10	5	11	8	8	0	16	13	2	11	11	0	0	0	0	10	0	8	0
August	8.2	NE.	45	SE.	2	9	16	8	9	8	6	3	3	0	8	13	10	13	9	0	0	0	0	2	0	3	0
September	7.7	SW.	28	NW.	0	7	14	8	8	3	16	0	4	0	14	8	8	9	7	0	0	0	0	0	0	1	0
October	8.1	NE.	48	SE.	1	10	18	10	5	5	4	3	4	3	17	6	8	8	6	0	0	1	0	0	0	0	0
November	9.6	NE.	34	NE.	0	12	14	4	4	9	6	6	4	1	10	10	10	11	9	1	0	2	0	0	4	0	0
December	9.5	SW.	41	W.	1	10	7	1	5	6	16	8	9	0	16	6	9	9	6	1	0	3	0	0	7	0	0
Year	9.1	NE.	48	SE.	7	84	151	67	82	72	125	53	88	8	152	117	96	126	101	11	1	9	15	13	55	26	0

NORTHFIELD, VT.

[H = 372 ft.; h_t = 15 ft.; h_r = 2 ft.; h_a = 59 ft.]

January	7.5	S.	42	SW.	1	21	4	2	0	26	4	4	1	0	3	13	15	8	7	7	0	0	27	0	31	0	1
February	10.6	W.	52	N.	2	21	2	1	1	20	3	5	0	3	6	10	12	16	10	14	0	0	22	0	28	0	3
March	10.8	S.	36	N.	0	23	4	0	0	25	4	3	1	2	3	20	8	10	6	6	0	0	10	0	29	0	0
April	12.3	S.	44	S.	6	14	3	1	0	33	3	2	3	1	2	16	12	15	8	7	0	0	3	0	21	2	0
May	9.1	S.	44	SW.	3	10	9	0	0	30	10	3	0	0	8	11	12	18	12	0	0	0	0	0	2	2	1
June	7.3	S.	33	N.	0	9	10	2	0	29	9	0	1	0	5	18	7	10	7	0	0	0	0	0	0	5	0
July	7.9	S.	40	SW.	1	11	11	1	1	20	12	1	4	1	3	21	7	14	13	0	0	0	0	0	0	7	0
August	7.4	S.	33	W.	0	10	12	1	0	24	9	2	1	3	10	11	10	17	11	0	0	0	0	1	0	4	1
September	8.0	S.	36	N.	0	12	6	1	1	27	8	4	1	0	7	12	11	13	12	0	0	0	0	0	4	2	0
October	9.9	S.	60	S.	3	9	6	0	0	29	13	2	2	1	8	13	10	10	7	1	0	2	0	0	9	0	1
November	8.6	S.	36	N.	0	7	2	0	0	36	9	4	1	1	4	9	17	10	6	3	0	0	5	0	24	0	1
December	9.0	S.	36	SW.	0	21	3	0	0	26	5	7	0	0	4	13	14	16	11	11	0	1	15	0	29	0	0
Year	9.0	S.	60	S.	16	168	72	9	3	325	89	37	15	12	63	167	135	157	110	49	0	3	82	1	177	22	8

NORTH PLATTE, NEBR.

[H = 2,841 ft.; h_t = 45 ft.; h_r = 34 ft.; h_a = 52 ft.]

January	10.4	NW.	40	NW.	1	5	1	1	11	7	8	13	16	0	6	19	6	3	0	3	0	0	10	0	29	0	0
February	10.6	NW.	48	W.	2	6	1	2	8	6	11	7	15	0	8	14	6	6	4	6	0	0	9	0	28	0	0
March	11.2	NW.	42	NW.	1	6	3	9	9	2	4	7	22	0	7	16	8	7	6	3	0	0	10	0	25	0	0
April	14.4	NW.	54	W.	6	6	5	2	7	2	4	12	22	0	7	16	7	4	1	1	1	0	0	0	14	0	0
May	11.5	NW.	44	SE.	2	5	5	5	14	4	5	9	15	0	8	19	4	7	6	0	0	0	0	0	2	2	0
June	11.3	S.	38	S.	0	8	2	5	11	20	4	5	5	0	12	16	2	12	10	0	1	0	0	5	0	9	0
July	9.7	SE.	43	S.	1	6	5	13	20	8	3	3	4	0	12	17	2	9	6	0	0	0	0	6	0	9	0
August	8.9	SE.	30	NE.	0	6	1	3	19	17	5	5	7	0	14	10	7	5	4	0	0	0	0	3	0	5	0
September	8.9	SE.	32	S.	0	6	1	4	20	9	7	5	8	0	22	6	2	2	2	0	0	0	0	7	0	0	0
October	9.6	NW.	36	N.	0	6	2	3	8	8	9	12	14	0	11	17	3	2	1	0	0	0	0	0	13	0	0
November	8.9	NW.	42	NW.	1	3	0	1	8	4	13	14	17	0	10	18	2	3	1	3	0	0	4	0	28	0	0
December	9.0	W.	36	NW.	0	3	0	1	9	1	15	20	11	2	9	19	3	3	1	3	0	0	7	0	30	0	0
Year	10.4	NW.	54	W.	14	66	26	48	144	88	88	112	156	2	126	187	52	63	42	19	2	0	40	21	169	25	0

OKLAHOMA CITY, OKLA.

[H = 1,239 ft.; h_t = 54 ft.; h_r = 45 ft.; h_a = 53 ft.]

January	9.3	N.	44	N.	1	16	5	1	6	9	15	1	8	1	22	6	3	4	2	2	0	2	3	0	22	0	4
February	11.4	N.	32	N.	0	13	10	0	7	10	4	0	10	2	12	5	11	8	7	4	0	0	6	0	18	0	0
March	12.6	S.	42	SW.	1	11	4	1	6	23	9	1	5	2	23	7	1	2	2	0	0	0	6	0	8	1	0
April	12.9	SE.	36	NW.	0	13	6	1	14	12	4	2	6	2	20	5	5	8	7	0	1	0	0	5	0	0	0
May	11.0	SE.	35	S.	0	11	0	2	19	10	5	3	6	0	19	8	4	9	7	0	1	0	0	0	0	2	0
June	9.7	SE.	45	SE.	2	2	6	5	31	7	5	1	2	1	20	6	4	5	4	0	0	0	0	9	0	3	0
July	9.1	SE.	36	SE.	0	2	5	1	33	15	5	0	1	0	22	8	1	9	7	0	0	0	0	18	0	6	0
August	6.3	SE.	32	SE.	0	11	9	3	18	10	2	2	3	4	14	10	7	12	11	0	0	1	0	2	0	6	0
September	8.5	S.	28	SE.	0	3	7	4	15	19	5	1	5	1	23	4	3	6	5	0	0	0	0	12	0	1	0
October	10.3	S.	36	N.	0	10	0	2	13	20	7	2	8	0	30	1	0	1	1	0	0	0	0	0	0	0	0
November	9.4	N.	44	N.	1	15	4	3	10	7	11	1	7	2	21	2	7	6	4	0	0	0	0	0	11	0	0
December	9.7	S.	36	NW.	0	9	6	1	8	16	10	4	6	2	16	7	8	9	7	0	0	0	1	0	15	0	0
Year	10.0	SE.	45	SE.	5	116	68	24	180	158	82	18	67	17	242	69	54	79	64	6	2	3	10	46	74	19	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893.—Continued.

OLYMPIA, WASH.

[λ = 47° 3′ N.; ϕ = 122° 53′ W.; gravity corr., 0.]

Month.	Pressure.			Temperature.							Moisture.									Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.					
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.		8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*				
January	30.07	30.37	29.41	34.1	39.0	41.6	31.1	36.4	54	6	32	32	90	78	.182	.190	2.21	1.17		5.7	6.5	6.5
February	29.96	30.39	29.27	35.3	39.5	42.1	32.0	37.0	52	10	34	37	95	92	.198	.229	8.51	1.48		7.6	7.9	7.6
March	29.82	30.31	29.30	37.9	47.2	49.5	35.5	42.5	60	26	35	38	89	73	.205	.230	5.71	.88		7.1	7.5	7.1
April	29.94	30.26	29.34	40.8	48.4	50.7	39.0	44.8	67	32	38	40	92	75	.235	.250	10.18	1.95		8.1	8.5	7.5
May	29.99	30.36	29.56	46.0	59.3	61.0	44.4	52.7	76	36	43	45	90	61	.280	.302	3.58	.64		7.1	6.6	6.3
June	30.02	30.19	29.65	47.0	62.3	64.7	45.0	54.8	84	38	44	47	90	60	.292	.326	2.43	.76		6.1	6.5	6.0
July	29.99	30.13	29.74	49.6	72.1	74.2	47.8	61.0	86	41	47	53	93	52	.329	.401	.19	.10		4.6	5.2	4.5
August	29.96	30.16	29.68	50.5	73.9	75.5	48.3	61.9	94	42	49	53	94	50	.346	.409	.47	.33		4.4	3.0	3.8
September	29.90	30.20	29.57	48.4	62.0	64.6	46.2	55.4	75	34	46	51	93	68	.319	.375	2.21	.69		4.3	5.6	5.6
October	30.02	30.39	29.43	43.4	51.2	54.1	40.0	47.0	65	24	42	45	94	80	.269	.299	5.59	1.72		5.1	6.4	6.3
November	30.00	30.51	29.20	39.3	44.4	47.0	34.8	40.9	56	23	38	40	95	85	.236	.251	12.86	2.45		6.3	7.7	7.9
December	30.06	30.49	29.42	41.9	44.8	47.6	38.1	42.8	56	26	40	41	92	88	.248	.263	7.68	1.49		6.8	7.5	8.3
Year	29.98	30.51	29.20	42.8	53.7	56.0	40.2	48.1	94	6	41	44	92	72	.262	.294	61.62	2.45		6.1	6.6	6.4

OMAHA, NEBR.

[λ = 41° 16′ N.; ϕ = 95° 56′ W.; gravity corr., −0.01.]

January	28.88	29.27	28.33	12.8	18.2	24.3	7.8	16.0	47	−9	8	11	79	72	.067	.078	.28	.14		5.9	4.8	4.6
February	28.92	29.65	28.43	14.3	22.4	28.2	10.8	19.5	52	−16	9	14	79	70	.075	.092	.97	.34		5.1	3.4	4.5
March	28.82	29.44	28.18	27.3	35.9	41.9	25.2	33.6	73	4	22	25	81	66	.129	.141	1.29	.38		6.3	5.1	5.2
April	28.70	29.07	27.93	41.7	52.9	58.0	38.7	48.4	82	25	34	33	75	51	.203	.195	3.12	1.60		5.6	4.9	4.7
May	28.74	29.06	28.25	52.7	63.9	68.7	49.3	59.0	86	36	44	44	73	52	.293	.295	3.84	1.66		4.0	5.0	4.1
June	28.77	29.07	28.53	67.4	77.7	82.1	64.1	73.1	90	53	60	61	77	58	.520	.552	7.11	3.55		3.5	3.2	3.0
July	28.81	29.05	28.50	70.4	81.7	86.7	66.6	76.6	97	60	62	63	74	53	.552	.577	3.03	1.39		3.1	3.0	3.3
August	28.85	29.12	28.61	64.0	76.1	81.4	61.5	71.4	94	45	55	60	74	59	.446	.530	3.62	2.34		2.6	2.7	2.5
September	28.78	29.17	28.31	59.0	72.6	80.1	56.9	68.5	93	34	48	51	67	49	.351	.409	1.72	1.64		2.0	1.8	1.8
October	28.80	29.32	28.38	46.3	58.1	66.8	44.0	55.4	89	24	36	37	67	47	.222	.228	.12	.05		2.8	2.5	3.4
November	28.87	29.24	28.25	30.0	38.7	46.4	27.2	36.8	72	0	22	22	73	54	.124	.129	.43	.32		3.8	2.0	3.9
December	28.90	29.50	28.45	22.3	29.5	35.5	18.0	26.8	60	−5	19	23	86	74	.114	.135	1.13	.49		5.2	3.7	5.7
Year	28.82	29.65	27.93	42.4	52.3	58.3	39.2	48.8	97	−16	35	37	75	59	.258	.280	26.66	3.55		4.2	3.5	3.9

OSWEGO, N. Y.

[λ = 43° 29′ N.; ϕ = 76° 35′ W.; gravity corr., 0.]

January	29.55	30.10	28.74	14.8	17.1	20.8	10.5	15.6	45	−6	12	12	87	82	.077	.078	2.06	.83		9.2	9.4	8.8
February	29.71	30.47	28.73	19.0	22.5	26.5	13.1	19.8	43	−6	15	16	82	76	.090	.095	2.11	.73		9.1	7.8	8.2
March	29.66	30.21	29.17	27.7	31.0	34.3	23.5	28.9	53	8	22	21	76	66	.120	.121	1.23	.30		7.1	6.1	6.7
April	29.65	30.14	29.00	38.4	39.3	46.3	33.5	39.9	71	21	30	31	72	72	.170	.172	3.17	.69		6.8	7.5	6.6
May	29.49	29.94	28.85	52.5	51.8	60.2	44.5	52.4	88	37	43	42	73	72	.289	.274	4.53	1.31		6.2	7.1	6.9
June	29.62	29.91	29.22	66.5	66.2	74.6	58.0	66.3	84	46	58	56	75	72	.492	.467	2.20	.93		4.9	6.2	5.1
July	29.57	29.83	29.30	67.3	66.9	76.2	61.2	68.7	90	54	59	58	75	70	.508	.492	1.16	.41		5.6	5.6	4.7
August	29.61	29.85	28.81	67.1	68.9	75.1	60.2	67.6	92	52	59	58	76	69	.504	.482	6.47	3.76		4.2	5.0	4.3
September	29.65	29.92	29.24	55.6	56.4	64.5	49.9	57.2	77	40	48	48	78	71	.350	.353	2.81	.83		5.8	3.4	5.4
October	29.69	30.10	28.57	49.3	51.9	59.4	44.7	52.0	78	26	42	43	77	73	.280	.291	2.26	.84		5.6	3.8	5.1
November	29.67	30.29	29.18	36.2	38.6	44.3	32.1	38.2	65	14	28	29	73	70	.160	.164	2.94	.88		7.3	5.7	6.7
December	29.69	30.40	29.02	24.6	26.9	31.6	19.3	25.4	58	−2	21	22	85	82	.121	.128	3.84	.52		9.6	7.5	9.4
Year	29.63	30.47	28.57	43.2	45.1	51.2	37.5	44.3	92	−6	36	36	77	73	.263	.260	34.78	3.76		6.8	6.3	6.4

PALESTINE, TEX.

[λ = 31° 45′ N.; ϕ = 95° 40′ W.; gravity corr., −0.03.]

January	29.58	29.96	29.22	40.1	51.8	58.9	37.5	48.2	76	22	36	36	85	58	.226	.223	1.14	.75		4.5	2.9	4.9
February	29.57	30.12	29.17	44.4	52.3	60.5	40.4	50.4	78	24	39	39	84	64	.260	.247	1.25	.40		6.6	6.9	7.2
March	29.54	29.99	29.16	48.9	61.6	68.6	47.5	58.0	85	25	41	39	76	47	.287	.266	2.67	1.62		4.2	3.5	3.5
April	29.41	29.71	29.04	62.3	72.9	81.0	59.3	70.2	92	42	58	50	85	47	.496	.367	3.37	2.42		7.9	3.9	5.8
May	29.40	29.60	29.11	65.6	74.1	81.5	62.7	72.1	92	48	61	53	86	51	.557	.418	4.96	2.00		6.3	2.8	5.1
June	29.40	29.65	29.11	71.5	80.6	89.0	68.8	78.9	96	60	68	58	88	48	.680	.433	5.35	1.66		5.6	3.3	4.8
July	29.49	29.64	29.35	76.3	86.4	94.5	72.5	83.5	100	70	71	66	84	52	.759	.652	.09	.00		2.6	2.0	3.0
August	29.44	29.62	29.34	73.5	81.7	90.8	70.5	80.6	97	60	69	68	86	66	.719	.710	3.55	1.01		4.6	4.0	5.0
September	29.45	29.69	29.14	68.9	82.9	91.5	66.2	78.8	100	57	64	62	83	51	.600	.557	1.32	1.32		3.2	2.1	2.6
October	29.55	29.84	29.16	56.1	71.5	81.5	53.3	67.4	97	40	48	47	76	44	.368	.347	.17	.11		3.1	1.9	2.9
November	29.56	29.89	29.28	47.0	58.2	65.8	44.8	55.3	84	28	42	45	84	64	.283	.314	4.94	1.92		5.4	3.4	4.8
December	29.67	30.00	29.16	46.9	57.5	64.1	44.7	54.4	80	26	42	43	84	61	.291	.306	1.77	1.27		5.1	4.1	5.4
Year	29.50	30.12	29.04	58.5	69.3	77.3	55.7	66.5	100	22	53	50	83	54	.460	.408	30.58	2.42		4.9	3.4	4.5

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

OLYMPIA, WASH.

[H = 52 ft.; h_t = 56 ft.; h_r = 51 ft.; h_a = 67 ft.]

Month.	Wind.														Number of days.													
	By self-registers.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	4.2	S.	23	SW.	0	3	7	0	4	22	5	2	4	15	2	17	12	7	5	5	0	5	4	0	16	0	0
February	4.8	S.	36	S.	0	4	1	1	0	19	10	7	2	12	0	14	14	21	21	8	0	3	2	0	10	0	0
March	4.9	S.	28	S.	0	4	4	0	2	23	5	2	3	19	1	16	14	21	18	0	2	2	0	0	9	0	0
April	5.0	S.	23	SE.	0	3	1	1	2	17	9	5	6	16	0	14	16	24	21	1	2	3	0	0	1	0	0
May	4.8	S.	25	W.	0	1	1	0	0	18	9	11	9	13	3	17	11	22	14	0	0	1	0	0	0	0	0
June	4.3	Calm / S.	24	SW.	0	7	1	0	2	10	17	9	3	11	3	23	4	14	11	0	0	1	0	0	0	0	0
July	2.9	Calm / NW.	21	NW.	0	10	4	0	0	2	5	14	8	19	10	21	0	4	2	0	0	1	0	0	0	1	0
August	2.7	Calm / NW.	22	SW.	0	11	7	0	1	4	5	6	10	18	15	14	2	4	3	0	0	3	0	1	0	1	0
September	3.2	Calm / S.	28	SW.	0	4	9	1	1	14	8	9	10	4	6	18	6	10	10	0	0	10	0	0	0	1	0
October	4.6	S.	33	S.	0	1	9	0	2	24	2	4	6	14	4	18	9	15	13	0	0	8	0	0	3	0	0
November	4.7	S.	34	S.	0	5	7	0	0	22	6	1	3	16	2	8	20	19	16	2	0	3	0	0	12	0	0
December	6.0	S.	28	S.	0	1	3	1	0	41	7	0	1	8	2	6	23	20	17	3	0	3	0	0	3	0	0
Year	4.3	S.	36	S.	0	54	54	4	14	216	88	70	65	165	48	186	131	181	151	19	4	43	6	1	54	3	0

OMAHA, NEBR.

[H = 1,123 ft.; h_t = 92 ft.; h_r = 86 ft.; h_a = 97 ft.]

January	8.5	NW.	35	NW.	0	15	4	3	9	6	3	7	15	0	12	13	6	7	2	7	0	0	20	0	31	0	0
February	9.9	N.	35	NW.	0	14	1	5	5	12	1	5	13	0	11	12	5	9	6	8	0	0	12	0	27	1	0
March	9.7	NW.	34	NW.	0	11	2	8	6	12	1	2	17	3	12	11	8	13	7	9	0	2	8	0	20	1	0
April	11.7	NW.	48	NW.	1	14	6	7	8	5	3	2	14	1	14	7	9	11	5	0	1	0	0	0	6	2	0
May	8.6	NE.	36	NE.	0	5	16	4	9	4	5	3	14	2	18	5	8	8	8	0	0	0	0	0	0	3	0
June	7.4	SE.	30	S.	0	11	6	3	19	15	0	2	4	0	18	10	2	8	8	0	0	0	0	0	0	5	0
July	6.7	SE.	36	NW.	0	8	4	4	17	15	4	3	7	0	15	12	4	7	6	0	0	0	0	9	0	8	0
August	5.9	SE.	34	SW.	0	10	1	2	25	9	0	3	6	6	21	8	2	7	5	0	0	0	0	3	0	5	0
September	7.0	SE.	25	NW.	0	6	4	2	18	13	0	3	7	7	23	5	2	3	2	0	0	0	0	4	0	0	0
October	8.4	NW.	33	N.	0	5	1	0	11	12	7	8	17	1	20	7	4	3	2	1	0	0	0	0	4	0	0
November	7.9	NW.	30	NW.	0	4	0	0	10	19	2	8	16	1	16	9	5	5	3	3	0	0	6	0	20	0	0
December	8.0	NW.	24	W.	0	5	2	4	12	13	2	9	15	0	10	9	12	8	3	4	0	1	13	0	27	1	0
Year	8.3	SE.	48	NW.	1	108	47	42	149	135	28	55	145	21	190	108	67	89	57	32	1	3	59	16	135	26	0

OSWEGO, N. Y.

[Ht = 335 ft.; h_t = 76 ft.; h_r = 83 ft.; h_a = 87 ft.]

January	13.5	S.	36	W.	0	4	4	3	14	14	5	5	13	0	2	5	24	24	13	25	0	0	24	0	31	0	0
February	14.8	SE.	48	W.	4	5	4	3	12	7	8	8	9	0	4	1	23	20	14	16	0	0	20	0	28	0	5
March	14.1	W.	36	NW.	0	10	4	0	12	11	2	15	8	0	8	9	14	8	6	5	0	0	13	0	25	1	0
April	13.3	W.	54	SE.	3	8	6	2	10	10	3	16	5	0	5	11	14	18	12	5	0	0	2	0	10	1	0
May	9.7	W.	34	SE.	0	2	6	1	14	6	10	18	5	0	9	8	14	15	11	0	0	3	0	0	0	1	4
June	7.7	S.	24	NW.	0	3	5	1	10	16	9	11	3	2	12	7	11	8	5	0	0	1	0	0	0	7	1
July	8.5	W.	27	NW.	0	5	2	1	7	11	11	19	6	0	13	10	8	9	8	0	0	0	0	1	0	7	3
August	8.1	S.	51	N.	1	5	4	4	7	15	6	10	10	1	16	6	9	10	8	0	0	0	0	1	0	5	4
September	10.3	SE.	33	W.	0	7	2	2	16	13	6	8	5	1	9	10	11	13	11	0	0	3	0	0	0	3	0
October	11.8	SE.	56	SE.	1	3	2	1	20	19	6	6	5	0	12	6	13	10	9	1	1	0	0	0	2	1	0
November	13.8	SE.	39	W.	0	0	1	1	20	9	12	7	10	0	7	5	18	16	13	6	0	0	1	0	14	1	0
December	13.0	SE.	38	NW.	0	5	2	1	15	11	10	9	9	0	0	2	29	26	20	18	0	0	16	0	27	0	0
Year	11.6	SE.	56	SE.	9	57	42	20	157	142	88	132	88	4	97	80	188	177	130	76	1	7	76	2	137	27	17

PALESTINE, TEX.

[Ht = 511 ft.; h_t = 42 ft.; h_r = 43 ft.; h_a = 51 feet.]

January	6.4	SW.	29	NW.	0	12	9	2	2	3	14	13	7	0	20	3	8	9	4	1	0	0	0	0	7	0	0
February	7.9	NE.	25	S.	0	8	17	5	3	6	7	3	7	0	5	6	17	12	8	0	0	1	0	0	4	0	0
March	8.5	N.	34	SW.	0	14	8	6	5	13	7	6	3	0	19	4	8	8	6	0	0	0	0	0	3	3	0
April	9.2	S.	45	NW.	1	2	10	0	6	31	4	3	4	0	8	11	11	4	4	0	0	0	0	1	0	4	0
May	6.4	S.	36	W.	0	9	11	1	7	21	6	5	2	0	9	14	8	12	11	0	0	0	0	1	0	4	0
June	4.1	S.	23	SW.	0	4	16	4	5	16	10	3	2	0	11	12	7	9	9	0	0	0	0	14	0	6	0
July	4.9	S.	20	SE.	0	2	1	3	8	20	20	5	2	1	21	10	0	1	1	0	0	0	0	31	0	6	0
August	4.3	NE.	26	SE.	0	7	16	10	8	5	11	3	0	2	10	15	6	8	6	0	0	1	0	19	0	9	0
September	6.1	S.	25	SE.	0	6	13	4	13	13	6	0	3	2	21	7	2	2	1	0	0	1	0	20	0	0	0
October	5.6	NE.	22	NW.	0	11	15	2	6	11	6	1	7	3	20	10	1	2	2	0	0	0	0	5	0	1	0
November	6.7	NE.	24	SW.	0	9	16	8	1	6	5	7	8	0	15	6	9	12	8	0	0	0	0	2	4	0	0
December	6.9	NW.	26	W.	0	8	9	4	10	7	7	6	11	0	11	9	11	4	3	0	1	1	0	0	3	2	0
Year	6.4	S.	45	NW.	1	92	141	49	74	152	103	55	56	8	170	107	88	83	63	1	1	4	0	91	19	39	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

PARKERSBURG, W. VA.

[λ=39° 16′ N.; ϕ=81° 36′ W.; gravity corr., —0.01.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.33	29.72	28.73	19.0	23.4	30.6	13.8	22.2	57	—11	12	15	71	67	.090	.097	4.09	.76	9.2	6.4	6.9
February	29.46	30.19	28.83	31.4	37.4	44.3	27.0	35.6	63	8	25	30	76	74	.154	.173	5.92	1.22	8.5	5.8	7.3
March	29.39	29.88	28.94	36.9	45.4	51.3	32.1	41.7	80	13	30	37	77	73	.182	.240	2.00	.59	6.4	4.2	5.9
April	29.33	29.60	28.61	50.8	57.5	64.0	45.4	54.7	90	30	43	44	75	64	.289	.306	4.59	1.15	7.2	6.4	6.4
May	29.27	29.69	28.92	58.2	63.5	70.3	50.2	60.2	87	40	50	54	75	72	.368	.424	4.15	1.30	6.1	6.1	5.6
June	29.35	29.62	29.07	69.7	74.7	82.4	61.9	72.2	93	51	62	65	78	72	.570	.616	3.47	.89	4.6	4.7	4.1
July	29.35	29.54	29.14	73.5	79.2	87.0	65.2	76.1	96	56	64	65	72	64	.600	.631	2.22	.57	3.8	4.7	2.9
August	29.34	29.55	28.80	68.3	75.1	83.5	60.9	72.2	94	53	61	62	79	66	.546	.576	4.77	3.22	3.5	4.2	3.0
September	29.39	29.68	29.16	62.0	68.6	77.5	56.7	67.1	90	35	55	59	80	72	.458	.512	2.57	1.80	5.0	2.9	3.7
October	29.43	29.84	28.51	49.5	56.4	66.5	44.7	55.6	86	26	44	50	83	80	.305	.381	5.82	3.08	4.2	3.1	4.5
November	29.44	29.92	28.94	37.8	43.8	50.4	33.1	41.8	69	15	32	37	79	78	.187	.230	2.05	.77	5.6	4.5	6.2
December	29.50	30.08	28.95	35.1	38.7	44.5	29.4	37.0	66	16	28	30	76	70	.166	.177	2.57	.92	7.5	4.2	5.5
Year	29.38	30.19	28.51	49.4	55.3	62.7	43.4	53.0	96	—11	42	46	77	71	.326	.364	44.22	3.22	6.0	4.8	5.2

PENSACOLA, FLA.

[λ=30° 25′ N.; ϕ=87° 13′ W.; gravity corr., —0.04.]

January	30.06	30.41	29.70	42.5	50.2	56.3	38.9	47.6	69	23	35	40	76	70	.221	.276	2.26	1.02	3.4	2.7	3.6
February	30.08	30.50	29.77	56.1	59.5	66.0	52.4	59.2	71	39	52	54	87	84	.412	.432	3.63	1.55	5.3	5.0	6.3
March	30.05	30.41	29.67	54.2	59.4	65.8	50.9	58.4	80	28	47	50	78	74	.359	.389	3.88	1.35	4.5	4.0	4.5
April	30.00	30.18	29.56	67.8	69.8	75.4	64.0	69.7	80	50	61	64	80	82	.566	.608	2.54	2.33	4.8	4.3	4.2
May	29.92	30.19	29.74	73.4	75.2	80.7	67.9	74.3	85	56	66	66	78	75	.654	.663	3.07	1.25	3.7	4.4	4.2
June	29.92	30.15	29.62	79.5	79.6	86.1	72.8	79.4	94	66	74	72	83	79	.831	.786	4.16	1.96	3.8	6.1	4.8
July	29.98	30.10	29.85	81.1	83.3	89.5	74.5	82.0	97	67	73	74	77	75	.811	.853	4.12	1.00	3.2	4.6	4.5
August	29.86	29.98	29.64	79.3	82.0	88.2	73.9	81.0	95	68	71	72	77	74	.769	.803	6.34	2.70	4.1	5.3	5.2
September	29.92	30.08	29.57	76.2	80.1	86.3	71.1	78.7	94	61	70	70	81	72	.729	.737	6.48	2.12	3.7	3.4	3.9
October	29.98	30.28	29.41	63.3	69.4	77.5	59.0	68.2	88	44	54	57	73	67	.447	.501	4.67	2.51	2.7	2.5	2.8
November	30.06	30.37	29.79	54.4	60.6	68.1	51.0	59.6	78	32	48	51	79	73	.360	.408	2.53	1.67	4.5	3.4	4.3
December	30.17	30.42	29.72	52.1	58.0	64.9	48.8	56.8	76	26	46	48	81	71	.347	.389	1.25	.86	4.5	4.0	5.1
Year	30.00	30.50	29.41	65.0	68.9	75.4	60.4	67.9	97	23	58	60	79	75	.542	.569	44.93	2.70	4.0	4.1	4.4

PHILADELPHIA, PA.

[λ=39° 57′ N.; ϕ=75° 9′ W.; gravity corr., —0.01.]

January	29.87	30.34	29.14	21.3	24.3	30.2	17.9	24.0	53	0	17	18	82	77	.098	.108	2.58	.93	6.9	4.7	5.6
February	30.03	30.68	29.17	29.0	33.5	38.5	25.5	32.0	55	9	23	24	77	69	.133	.137	4.85	1.20	6.4	6.3	6.6
March	29.95	30.49	29.27	35.3	40.5	46.4	31.9	39.2	60	13	27	29	72	65	.153	.171	2.57	1.01	5.2	4.7	5.9
April	29.94	30.38	29.45	46.8	51.9	58.9	42.8	50.8	75	34	38	40	73	67	.241	.268	4.47	1.12	6.0	6.2	6.8
May	29.79	30.26	29.24	57.9	62.1	69.6	52.3	61.0	89	43	47	48	70	61	.335	.343	2.92	1.23	4.7	5.6	5.4
June	29.89	30.19	29.44	69.0	73.0	81.4	63.1	72.2	93	55	59	61	72	68	.512	.548	3.07	1.76	6.0	6.5	6.6
July	29.86	30.13	29.56	72.7	77.1	86.0	67.3	76.6	94	58	61	61	68	60	.552	.553	2.04	.52	4.8	5.3	4.9
August	29.86	30.10	29.35	71.1	75.7	84.8	66.5	75.6	93	58	61	62	72	63	.558	.563	2.43	1.37	5.2	4.5	5.2
September	29.93	30.21	29.52	61.4	66.1	73.8	57.7	65.8	87	44	53	54	74	66	.416	.435	3.76	2.04	5.7	5.0	5.5
October	30.00	30.41	29.19	53.5	58.2	65.4	49.9	57.6	80	33	46	47	77	69	.329	.352	3.82	1.26	4.3	3.6	4.5
November	30.01	30.53	29.61	40.3	44.8	50.2	37.7	44.0	62	24	32	35	73	68	.190	.211	2.51	.64	6.0	3.9	5.6
December	30.03	30.76	29.38	33.4	37.0	42.9	29.8	36.4	62	17	27	28	77	70	.154	.165	3.13	1.03	5.6	4.1	5.7
Year	29.93	30.76	29.14	49.3	53.7	60.7	45.2	52.9	98	0	41	42	74	67	.306	.321	37.65	2.04	5.6	5.0	5.7

PIERRE, S. DAK.

[λ=44° 24′ N.; ϕ=100° 17′ W.; gravity corr., 0.]

January	28.47	28.89	27.96	12.0	17.8	24.5	6.7	15.6	47	—20	9	13	88	82	.073	.091	.77	.26	6.2	6.1	6.5
February	28.50	29.21	27.99	6.0	16.3	23.3	3.6	13.4	49	—26	3	11	84	79	.063	.085	.46	.23	5.8	4.5	4.8
March	28.44	29.05	27.73	18.5	30.2	35.8	15.5	25.6	64	—12	16	24	88	77	.099	.132	1.46	.36	6.7	6.6	6.3
April	28.34	28.75	27.75	35.3	47.1	52.4	31.9	42.2	74	18	29	30	79	57	.162	.167	2.19	.60	6.2	6.4	5.9
May	28.35	28.69	27.68	48.2	61.8	66.2	43.5	54.8	87	32	41	41	76	49	.257	.260	1.94	1.30	4.8	5.1	5.2
June	28.29	28.63	27.98	65.1	79.1	84.2	61.2	72.7	103	45	54	56	70	48	.435	.451	1.73	.48	3.7	4.3	3.5
July	28.36	28.68	28.01	61.8	83.5	88.2	63.9	76.0	102	54	58	58	70	45	.481	.495	2.29	.61	3.8	3.8	2.9
August	28.39	28.75	28.00	63.3	80.7	87.4	59.8	73.6	99	39	50	49	65	36	.381	.372	.84	.14	3.3	3.5	3.0
September	28.33	28.79	27.90	54.5	73.4	79.7	50.8	65.2	99	27	40	41	61	36	.271	.274	.78	.78	2.6	3.0	2.4
October	28.39	28.87	27.95	38.5	50.7	61.3	35.9	48.6	82	20	32	36	79	59	.188	.213	1.57	.86	4.1	2.7	3.5
November	28.43	28.84	27.83	24.8	34.1	43.4	22.1	32.8	73	—4	19	23	80	64	.109	.129	.40	.18	5.4	4.5	5.4
December	28.46	29.07	28.09	16.6	21.4	29.4	11.1	20.2	56	—11	12	16	82	76	.082	.094	.63	.25	6.0	4.5	5.4
Year	28.40	29.21	27.68	37.0	49.6	56.3	33.8	45.1	103	—26	30	33	77	59	.217	.230	14.56	1.30	4.8	4.6	4.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

PARKERSBURG, W. VA.

[H = 638 ft.; h_t = 77 ft.; h_r = 69 ft.; h_a = 84 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a.m. and 8 p.m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	Precipitation. 0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Maximum temp. Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	6.6	W.	30	NW.	0	4	7	2	7	12	6	17	7	0	5	13	13	18	15	12	0	0	18	0	29	0	0
February	8.9	W.	41	W.	1	5	5	3	4	8	4	14	12	1	3	12	13	17	16	3	0	1	4	0	18	1	0
March	7.6	S.	36	NW.	0	12	2	6	4	15	4	9	9	1	7	14	10	14	8	4	0	0	3	0	16	0	0
April	7.5	E.	35	SW.	0	6	4	10	7	10	6	8	8	1	7	9	14	17	15	0	2	0	0	1	1	5	0
May	6.4	W.	42	W.	1	4	2	4	11	11	6	12	11	1	12	6	13	14	11	0	2	0	0	0	0	6	0
June	4.5	SE.	36	W.	0	3	5	5	18	9	6	3	7	4	17	8	5	13	9	0	0	2	0	1	0	4	0
July	4.6	S.	36	W.	0	10	6	5	11	12	3	11	3	1	20	10	1	9	7	0	0	0	0	10	0	6	0
August	4.5	N.	33	W.	0	22	4	2	15	5	0	6	4	4	20	10	1	9	6	0	0	1	0	7	0	3	0
September	5.3	SE.	30	N.	0	9	4	6	20	8	2	5	3	3	17	9	4	7	5	0	0	2	0	1	0	0	0
October	5.1	SE.	30	W.	0	8	1	4	19	7	4	8	3	8	12	15	4	9	9	0	1	5	0	0	2	1	0
November	6.1	SE.	30	W.	0	5	2	3	13	10	10	7	4	6	6	12	12	11	7	0	0	5	2	0	12	1	0
December	7.4	W.	37	W.	0	3	2	2	8	14	12	14	1	6	11	8	12	14	9	6	0	1	5	0	20	0	0
Year	6.2	SE.	42	W.	2	91	44	52	137	121	63	114	72	36	137	126	102	152	117	25	5	17	32	20	98	27	0

PENSACOLA, FLA.

[H = 56 ft.; h_t = 78 ft.; h_r = 79 ft.; h_a = 90 ft.]

January	10.5	N.	44	W.	2	16	6	6	3	5	8	7	11	0	17	8	6	9	8	0	0	1	0	0	4	1	0
February	10.4	N.	40	SW.	1	10	7	7	9	6	5	3	8	1	6	10	12	12	10	0	1	6	0	0	0	2	0
March	11.1	N.	41	NW.	1	15	7	4	10	5	6	8	7	0	16	6	9	11	10	0	0	4	0	0	1	3	0
April	10.1	S.	57	W.	1	3	3	1	8	24	11	5	4	1	12	13	5	5	4	0	0	1	0	0	0	3	0
May	10.6	S.	43	SW.	1	8	6	3	1	22	12	4	6	0	13	13	5	9	8	0	0	0	0	0	0	5	0
June	9.7	S.	36	NW.	0	3	9	4	9	14	12	2	6	1	10	13	7	11	7	0	0	0	0	3	0	7	0
July	7.5	NW.	37	E.	0	2	4	1	6	10	15	6	16	2	13	15	3	14	11	0	0	0	0	9	0	18	0
August	8.2	SW.	42	S.	1	10	1	4	4	7	15	9	11	1	9	15	7	17	11	0	0	0	0	11	0	5	0
September	9.3	S.	48	NW.	1	7	3	6	4	14	13	1	2	0	18	4	8	9	8	0	0	0	0	4	0	3	0
October	10.2	N.	66	SW.	1	20	15	4	3	3	6	3	7	1	21	5	5	6	5	0	0	0	0	0	0	0	0
November	9.1	NE.	56	SE.	1	12	17	4	7	5	11	1	3	0	15	7	8	7	4	0	0	1	0	0	0	1	0
December	9.0	N.	46	NW.	1	14	13	4	11	4	8	1	6	1	12	6	13	8	5	0	0	3	0	0	2	0	0
Year	9.6	SW.	66	SW.	11	120	101	48	75	119	122	50	87	8	162	115	88	118	91	0	1	16	0	27	7	48	0

PHILADELPHIA, PA.

[H = 117 ft.; h_t = 168 ft.; h_r = 166 ft.; h_a = 184 ft.]

January	10.6	NW.	36	SE.	0	2	14	4	5	0	7	4	25	1	10	10	11	13	9	11	0	1	18	0	28	0	0
February	12.5	NW.	46	W.	2	5	9	5	3	2	9	5	18	0	6	8	14	14	11	8	0	1	7	0	23	0	0
March	12.3	NW.	37	N.	0	5	15	5	5	3	11	4	14	0	8	10	13	12	12	2	0	1	1	0	14	1	0
April	11.7	NE.	40	NE.	1	5	10	7	10	11	7	4	6	0	6	10	14	15	10	0	0	1	0	0	0	2	0
May	11.0	SW.	38	SW.	0	6	5	6	7	4	19	7	8	0	12	6	13	8	7	0	0	0	0	0	0	1	0
June	9.6	NE.	26	NW.	0	7	14	10	5	1	13	2	8	0	6	6	18	8	7	0	0	0	0	6	0	4	0
July	9.3	SW.	39	W.	0	8	6	1	6	8	10	12	11	0	10	12	9	14	10	0	1	2	0	7	0	8	0
August	9.8	N.	55	NE.	3	14	7	4	6	7	12	6	6	0	10	12	9	9	8	0	0	2	0	5	0	4	0
September	10.1	NW.	37	SW.	0	10	7	7	3	6	6	10	11	0	10	9	11	10	7	0	0	0	0	0	0	5	0
October	9.8	NW.	55	SE.	2	10	9	5	8	5	7	9	9	0	13	10	8	9	7	0	0	4	0	0	0	0	0
November	10.5	NW.	36	SE.	0	11	6	5	3	5	11	9	10	0	8	14	8	8	8	0	0	2	0	0	6	0	0
December	11.0	SW.	43	NW.	1	10	5	3	2	6	15	12	9	0	8	15	8	13	9	3	0	4	2	0	21	0	0
Year	10.7	NW.	55	NE. SE.	9	93	107	62	63	58	127	84	135	1	107	122	136	133	105	24	1	18	28	18	92	25	0

PIERRE, S. DAK.

[H = 1,470 ft.; h_t = 50 ft.; h_r = 47 ft.; h_a = 58 ft.]

January	9.0	NW.	42	NW.	2	9	4	12	4	0	5	8	16	4	6	12	13	10	6	10	0	0	20	0	31	0	0
February	9.9	E.	34	NW.	0	6	1	15	3	0	3	11	14	3	12	6	10	8	3	8	0	0	18	0	28	0	4
March	9.8	E.	40	E.	1	5	4	17	9	2	0	9	13	3	7	13	11	11	10	11	0	0	15	0	28	0	0
April	11.8	NW.	60	W.	3	8	2	12	12	1	0	7	17	1	9	11	10	10	8	1	1	0	1	0	15	0	0
May	10.3	E.	50	W.	5	8	4	12	11	1	3	8	10	5	11	10	10	9	8	0	0	0	0	0	0	4	0
June	10.6	SE.	43	S.	3	5	1	9	16	10	0	7	8	4	10	11	3	10	8	0	0	0	0	9	0	9	0
July	9.1	SE.	50	W.	3	9	5	12	13	11	1	3	7	1	18	13	0	12	8	0	1	0	0	12	0	11	2
August	9.4	SE.	36	SE.	0	7	2	10	12	10	3	8	6	4	18	10	3	6	4	0	0	0	0	11	0	2	2
September	9.9	SE.	38	SE.	0	7	4	11	15	2	3	8	7	3	21	7	2	1	1	0	0	0	0	12	2	2	3
October	7.7	NW.	36	NW.	0	4	1	13	5	2	3	12	20	2	16	11	4	6	5	0	0	0	0	0	10	0	0
November	8.5	NW.	35	NW.	0	4	1	8	7	4	4	8	18	6	7	14	9	6	4	2	0	1	7	0	26	0	0
December	8.4	SE.	36	NW.	0	8	4	9	15	2	4	4	14	2	10	10	11	10	7	7	0	0	18	0	30	0	0
Year	9.5	NW.	60	W.	17	80	33	140	122	45	29	93	150	38	151	128	86	99	72	39	2	1	79	44	170	28	11

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

PIKES PEAK, COLO.

[λ = 38° 50′ N.; ϕ = 105° 2′ W.; gravity corr., −0.01.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	17.58	17.87	17.24	5.8	7.4	10.9	2.2	6.6	28	−12	−8	−3	58	64	.030	.035	3.00	1.42	3.6	2.5	4.2
February	17.46	17.77	17.05	−0.6	1.4	5.0	−4.1	.4	18	−21	−10	−4	68	78	.027	.035	3.48	1.22	3.9	3.6	5.9
March	17.50	17.99	17.10	3.5	6.4	10.5	0.1	5.3	30	−15	−4	2	73	83	.036	.046	2.01	1.00	2.5	4.7	5.7
April	17.56	17.87	17.14	7.1	13.2	16.7	5.5	11.1	29	−12	2	6	80	74	.045	.053	1.43	.39	1.8	4.9	5.4
May	17.73	18.04	17.49	17.0	23.3	27.4	14.4	20.9	40	−2	9	16	72	74	.067	.090	1.85	.70	2.6	5.0	4.9
June	17.96	18.13	17.69	31.3	38.0	42.8	28.1	35.4	53	9	19	26	59	66	.102	.143	.67	.42	1.1	4.6	4.0
July	18.06	18.19	17.92	36.1	40.8	46.0	33.1	39.6	56	29	28	32	72	73	.150	.184	1.49	.33	1.8	6.2	5.7
August	18.03	18.12	17.93	32.7	36.2	41.1	30.8	36.0	49	25	28	33	82	88	.153	.185	2.65	.40	1.9	5.5	6.4
September	17.91	18.16	17.52	27.6	33.4	38.5	26.2	32.4	47	18	21	27	76	77	.111	.144	.56	.38	1.1	2.4	2.9
October	17.80	18.09	17.48	18.5	22.2	27.0	15.5	21.2	40	−2	9	13	66	66	.066	.077	.95	.30	2.6	2.4	3.3
November	17.62	17.95	17.34	9.1	10.9	14.8	6.0	10.4	28	−14	1	2	72	68	.044	.045	1.61	.75	2.2	2.6	5.7
December	17.60	17.94	17.29	5.8	7.2	11.0	2.1	6.6	21	−18	−2	0	72	73	.038	.040	2.04	.74	4.1	2.8	5.3
Year	17.73	18.19	17.05	16.2	20.0	24.3	13.3	18.8	56	−21	8	12	71	74	.072	.090	21.74	1.42	2.4	3.9	5.0

PITTSBURG, PA.

[λ = 40° 32′ N.; ϕ = 80° 2′ W.; gravity corr., −0.01.]

January	29.08	29.50	28.33	19.6	23.5	28.4	14.7	21.6	57	−3	16	17	85	76	.100	.106	2.36	.52	7.8	6.8	8.1
February	29.23	29.93	28.54	29.1	33.8	40.6	23.0	31.8	59	2	26	23	85	82	.154	.168	4.74	.78	8.4	5.4	7.7
March	29.17	29.63	28.70	36.4	43.0	49.1	31.1	40.1	73	13	32	34	83	72	.190	.206	1.17	.22	6.9	4.8	6.0
April	29.13	29.41	28.62	48.6	54.7	60.3	42.5	51.4	80	32	42	44	80	69	.273	.290	4.94	.83	8.0	6.6	6.6
May	29.05	29.48	28.58	57.9	62.7	69.7	49.5	59.6	85	38	50	53	76	72	.373	.411	4.50	1.28	5.4	6.1	6.0
June	29.15	29.43	28.81	69.1	74.8	81.6	62.1	71.8	91	52	60	60	74	62	.524	.536	2.87	1.08	4.3	3.9	5.4
July	29.14	29.36	28.93	70.6	77.4	84.9	62.5	73.7	95	53	60	60	70	57	.526	.532	5.08	1.29	3.4	4.3	3.8
August	29.14	29.35	28.72	67.1	74.8	82.5	60.4	71.4	92	50	58	57	74	56	.495	.477	2.94	2.16	3.9	3.6	4.3
September	29.18	29.43	28.95	60.6	67.1	74.8	55.8	65.3	88	35	53	52	76	59	.411	.401	1.80	.72	4.9	2.9	4.1
October	29.21	29.63	28.30	50.2	57.2	65.6	45.3	55.4	86	29	44	45	81	64	.306	.311	3.22	1.27	4.8	3.6	4.3
November	29.21	29.74	28.69	38.3	43.8	50.2	33.0	41.6	68	16	32	34	79	69	.186	.204	1.46	.64	5.1	3.7	5.2
December	29.24	29.87	28.69	34.8	38.4	44.3	27.6	36.0	64	15	30	30	82	70	.176	.170	2.70	.95	8.5	5.6	7.1
Year	29.16	29.93	28.30	48.5	54.3	61.0	42.3	51.6	95	−3	42	43	79	67	.310	.318	37.84	2.16	5.9	4.8	5.7

POINT REYES LIGHT, CAL.

[λ = 38° 11′ N.; ϕ = 122° 51′ W.; gravity corr., −.]

January						54.5	43.4	49.0	65	37							3.21	1.23			
February						51.5	42.5	47.0	58	37							2.58	.72			
March						53.6	44.4	49.0	74	39							8.09	2.15			
April						53.3	44.4	48.8	64	39							1.83	1.27			
May						56.6	45.9	51.2	62	40							.91	.55			
June						58.8	46.9	52.8	82	40							.08	.08			
July						60.4	47.1	53.8	68	42							.02	.02			
August						60.1	48.3	54.2	68	46							.00	.00			
September						63.3	50.2	56.8	70	48							.69	.31			
October						61.4	47.2	54.3	70	44							.54	.22			
November						59.1	46.7	52.9	70	42							5.43	1.25			
December						57.4	45.9	51.6	70	38							3.49	1.20			
Year						57.5	46.1	51.8	82	37							26.87	2.15			

PORT ANGELES, WASH.

[λ = 48° 7′ N.; ϕ = 123° 6′ W.; gravity corr., +0.01.]

January	30.09	30.37	29.48	35.1	37.7	41.1	30.8	36.0	54	−1	31	33	84	84	.180	.199	4.82	1.13	7.3	6.9	6.4
February	29.95	30.40	29.31	32.4	37.4	40.6	28.7	34.6	48	7	29	32	88	81	.162	.184	5.23	1.88	7.9	8.4	7.4
March	29.81	30.31	29.24	36.5	45.3	47.0	33.8	40.4	52	28	32	36	83	71	.180	.212	2.57	1.35	7.2	7.4	6.8
April	29.92	30.23	29.39	38.7	46.3	48.3	37.4	42.8	58	30	35	39	88	75	.208	.235	3.70	.84	7.6	6.5	7.6
May	29.99	30.36	29.59	46.2	53.0	54.6	43.9	49.2	65	39	43	46	89	77	.279	.309	1.85	.52	7.3	6.8	6.4
June	30.03	30.20	29.57	49.7	55.6	58.2	46.8	52.5	71	40	44	48	82	76	.292	.335	1.51	.80	6.7	6.5	6.1
July	30.02	30.14	29.81	52.2	60.5	62.5	49.2	55.8	76	42	48	50	86	70	.333	.367	.24	.14	4.9	5.2	4.5
August	29.98	30.16	29.75	51.7	62.4	64.6	48.8	56.7	81	42	47	52	86	69	.329	.382	.05	.04	3.8	3.2	3.5
September	29.90	30.23	29.52	49.0	56.5	59.5	45.4	52.4	77	38	46	50	89	78	.311	.350	.35	0.1	4.9	5.1	
October	30.01	30.41	29.39	43.8	49.3	52.2	39.6	45.9	59	23	40	42	86	78	.249	.274	3.61	1.02	6.9	5.9	6.0
November	30.00	30.56	29.11	38.3	41.1	44.6	34.6	39.6	52	26	34	37	86	85	.202	.221	7.52	1.66	7.3	7.5	6.9
December	30.03	30.48	29.32	39.3	42.8	47.4	35.6	41.5	61	28	36	39	89	87	.214	.241	4.45	1.11	7.4	7.3	6.7
Year	29.98	30.56	29.11	42.7	49.0	51.7	39.6	45.6	81	−1	39	42	86	78	.245	.276	36.40	1.88	6.7	6.5	6.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

PIKES PEAK, COLO.

[H=14,134 ft.; h_t=9 ft.; h_r=3 ft.; h_a=25 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction (a).	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	30.5	NE.	98	W.	21	5	24	0	1	1	7	11	13	0	16	9	6	6	6	7	0	7	31	0	31	0	0
Feburary	32.7	SW.	98	W.	26	7	8	0	0	1	15	17	8	0	8	9	11	11	9	11	0	13	28	0	28	0	0
March	33.4	W.	92	W.	27	9	2	0	0	1	16	20	14	0	7	14	10	10	10	10	0	12	31	0	31	0	0
April	31.3	SW.	82	W.	25	2	4	0	1	2	22	22	7	0	8	13	9	10	8	11	0	10	30	0	30	0	0
May	26.0	W.	89	W.	24	3	5	7	1	6	13	20	7	6	12	9	10	13	7	13	0	11	24	0	31	2	0
June	18.6	SW.	86	SW.	13	4	4	3	4	8	13	17	7	0	13	15	2	6	4	6	0	3	3	0	22	5	0
July	13.6	W.	64	W.	9	6	11	4	4	2	9	16	10	0	8	17	6	11	10	7	4	7	0	0	9	10	0
August	14.9	W.	59	W.	5	7	10	2	0	4	7	21	11	0	4	14	13	20	17	13	10	15	1	0	21	10	0
September	22.7	SW.	84	W.	16	3	3	5	2	7	25	11	4	0	21	6	3	4	2	4	0	5	2	0	27	0	0
October	28.7	W.	90	W.	25	7	5	0	0	1	19	23	7	0	17	13	1	6	6	6	0	3	23	0	31	0	0
November	26.2	SW.	104	SW.	16	6	8	1	0	1	20	15	9	0	9	7	14	14	9	15	0	11	30	0	30	0	0
December	32.5	W.	106	SW.	27	17	6	0	0	3	12	17	7	0	11	9	11	11	9	11	0	13	31	0	31	0	0
Year	25.8	W.	106	SW.	234	76	90	22	13	37	178	210	104	0	134	135	96	122	97	114	14	110	234	0	322	27	0

PITTSBURG, PA.

[H=820 ft.; h_t=116 ft.; h_r=101 ft.; h_a=123 ft.]

January	8.3	NW.	34	W.	0	1	4	4	8	1	13	19	12	0	0	10	21	16	8	12	0	5	19	0	29	0	0
February	7.4	NW.	36	NW.	0	4	4	6	7	1	7	10	17	0	1	12	15	19	17	9	0	2	5	0	23	0	0
March	8.4	NW.	30	SW.	0	10	4	2	12	3	7	14	10	0	6	14	11	12	8	3	0	0	3	0	15	0	0
April	9.1	SE.	36	SE.	0	6	5	7	9	2	13	8	10	0	7	6	17	20	18	1	3	0	0	0	2	3	0
May	7.2	NW.	33	NW.	0	6	3	4	7	6	11	8	17	0	7	11	13	18	11	0	1	2	0	0	0	3	0
June	6.4	N.	24	SE.	0	13	6	5	8	4	9	8	7	0	10	13	7	10	9	0	0	1	0	2	0	6	0
July	5.5	NW.	26	NE.	0	10	12	4	7	3	6	9	11	0	15	14	2	12	11	0	0	4	0	4	0	8	0
August	5.2	N.	24	N.	0	15	19	2	7	4	6	3	6	0	15	12	4	7	6	0	0	0	0	7	0	1	0
September	6.4	SE.	22	NW.	0	14	4	4	17	2	7	5	7	0	15	10	5	8	5	0	1	2	0	0	0	1	0
October	6.4	SE.	32	NW.	0	9	5	5	17	3	7	9	7	0	17	4	10	10	8	0	0	7	0	0	1	1	0
November	7.2	W.	28	W.	0	5	1	3	16	6	3	18	8	0	12	10	8	8	7	2	0	5	2	0	11	1	0
December	8.0	W.	26	SW.	0	3	1	2	9	8	16	16	7	0	3	11	17	18	10	7	0	0	4	0	24	0	0
Year	7.1	NW.	36	{NW. SE.}	0	96	68	48	124	43	105	127	119	0	108	127	130	158	118	34	5	28	33	13	105	24	0

POINT REYES LIGHT, CAL.

[H=— ft.; h_t=12 ft.; h_r=1 ft.; h_a=60 ft.]

January	b11.1	SE.	....	.....	....	....	....	....	....	....	....	....	....	....	5	15	11	8	8	0	0	8	0	0	0	0	0
February	19.3	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	4	7	17	8	8	0	0	2	0	0	0	0	0
March	17.9	SE.	....	.....	....	....	....	....	....	....	....	....	....	....	2	6	23	19	15	0	0	0	0	0	0	0	0
April	24.3	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	11	9	10	6	5	0	0	0	0	0	0	0	0
May	21.2	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	15	4	12	3	3	0	0	9	0	0	0	0	0
June	32.4	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	25	1	4	1	1	0	0	5	0	0	0	0	0
July	24.0	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	15	0	16	1	0	0	0	16	0	0	0	0	0
August	16.9	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	9	0	22	0	0	0	0	23	0	0	0	0	0
September	19.4	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	15	2	13	4	3	0	0	5	0	0	0	0	0
October	15.1	N.	....	.....	....	....	....	....	....	....	....	....	....	....	13	2	16	6	3	0	0	5	0	0	0	0	0
November	12.6	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	9	2	19	15	14	0	0	6	0	0	0	0	0
December	12.9	SE.	....	.....	....	....	....	....	....	....	....	....	....	....	14	3	14	9	8	0	0	1	0	0	0	0	0
Year	18.8	NW.	....	.....	....	....	....	....	....	....	....	....	....	....	137	51	177	80	68	0	0	80	0	0	0	0	0

b For 29½ days.

PORT ANGELES, WASH.

[H=29 ft.; h_t=47 ft.; h_r=35 ft.; h_a=59 ft.]

January	5.5	S.	34	E.	0	4	5	5	10	25	10	2	1	0	4	16	11	14	12	5	0	1	6	0	16	0	0
February	5.7	S.	44	N.	1	5	3	8	5	23	7	4	1	0	2	12	14	16	15	7	0	0	4	0	16	0	0
March	5.3	S.	35	W.	0	4	7	5	6	22	9	8	1	0	2	16	13	17	11	0	0	0	0	0	10	0	0
April	5.6	W.	28	W.	0	2	1	1	3	19	8	20	6	0	1	11	18	17	12	0	0	0	0	0	4	0	0
May	6.3	W.	34	SW.	0	1	4	1	2	13	8	21	12	0	5	12	14	13	10	0	0	0	0	0	0	0	0
June	6.5	W.	21	W.	0	1	3	2	6	12	8	24	4	0	9	9	12	11	7	0	0	0	0	0	0	0	0
July	7.3	W.	24	W.	0	1	0	5	6	9	8	31	2	0	11	16	4	5	2	0	0	0	0	0	0	1	0
August	6.3	W.	24	W.	0	0	0	7	4	15	8	27	1	0	19	7	5	2	1	0	0	1	0	0	0	0	0
September	4.5	W.	20	W.	0	1	0	10	4	16	4	19	6	0	9	13	8	9	5	0	0	1	0	0	0	0	0
October	5.1	S.	26	W.	0	0	4	10	6	16	9	12	3	2	7	11	13	13	9	1	0	1	0	0	2	2	0
November	5.4	S.	30	NE.	0	2	4	2	12	27	9	4	0	0	6	8	16	21	17	4	0	0	0	0	10	0	0
December	4.7	S.	34	W.	0	0	0	1	9	34	9	6	3	0	2	15	14	18	15	4	0	0	0	0	6	0	0
Year	5.7	S.	44	N.	1	21	31	57	73	231	97	178	40	2	77	146	142	156	116	21	0	4	10	0	64	3	0

(a) By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

PORT HURON, MICH.

[λ = 43° 0′ N.; φ = 82° 26′ W.; gravity corr., 0.]

Month.	Pressure.			Temperature.							Moisture.									Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.					
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.		8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*				
January	29.25	29.69	28.51	11.4	16.0	20.5	7.7	14.1	44	−11	7	12	81	81	.064	.078	2.24	.54		7.2	6.3	6.5
February	29.41	30.17	28.71	17.7	21.1	27.5	12.1	20.3	41	−6	14	17	83	81	.090	.095	3.57	.70		6.8	4.9	5.9
March	29.34	29.86	28.77	27.1	31.1	37.8	23.0	30.4	62	6	22	25	82	78	.128	.142	1.47	.48		5.0	5.5	5.4
April	29.28	29.70	28.67	39.8	42.8	49.8	34.6	42.2	74	22	33	35	77	74	.193	.208	3.71	.68		6.6	6.2	6.5
May	29.23	29.64	28.70	50.1	54.0	61.1	43.2	52.2	84	34	42	43	74	68	.269	.282	2.50	.73		5.3	4.2	5.3
June	29.32	29.59	28.92	65.4	68.6	76.0	58.0	67.0	92	45	58	59	77	73	.483	.512	4.43	1.11		2.5	2.9	3.2
July	29.32	29.57	29.08	68.0	71.4	79.9	60.4	70.2	92	50	58	60	73	68	.502	.525	2.04	.58		2.0	3.2	3.4
August	29.35	29.60	29.13	63.5	69.6	77.3	57.5	67.4	92	45	56	57	78	65	.401	.466	2.16	.55		2.9	2.8	3.1
September	29.33	29.64	29.05	54.6	61.5	69.5	50.2	59.8	84	33	48	50	80	67	.360	.379	.90	.36		4.3	4.8	4.8
October	29.34	29.76	28.29	46.4	52.0	60.0	43.7	51.8	82	24	41	42	79	70	.273	.281	5.25	2.27		4.1	4.0	4.5
November	29.32	29.87	28.70	34.3	38.2	43.5	31.7	37.6	63	16	29	32	81	76	.166	.186	3.00	1.50		6.9	6.1	6.6
December	29.36	30.05	28.72	24.5	27.3	31.9	19.5	25.7	58	5	20	22	81	80	.117	.127	3.53	1.24		7.7	7.4	7.6
Year	29.32	30.17	28.29	41.9	46.2	52.9	36.9	44.9	92	−11	36	38	79	73	.259	.273	34.80	2.27		5.1	4.9	5.2

PORTLAND, ME.

[λ = 43° 39′ N.; φ = 70° 15′ W.; gravity corr., 0.]

January	29.78	30.53	28.89	11.8	16.9	22.3	8.1	15.2	48	−5	7	9	80	69	.063	.068	2.19	.82		6.2	4.4	5.8
February	29.91	30.62	28.66	17.4	22.8	28.4	12.0	20.2	53	−6	11	14	76	68	.082	.087	4.51	.92		4.6	6.1	5.4
March	29.89	30.52	29.25	27.4	31.3	36.4	22.4	29.4	52	8	18	22	68	69	.111	.125	3.58	1.44		5.3	4.3	5.1
April	29.93	30.52	29.28	38.1	40.1	46.3	31.6	39.0	61	19	28	29	67	67	.154	.166	3.71	1.44		6.7	5.0	6.2
May	29.76	30.16	29.25	52.7	52.3	59.5	44.7	52.1	83	37	43	42	74	71	.284	.270	7.59	3.00		6.4	5.6	6.4
June	29.90	30.17	29.66	61.8	59.1	67.2	53.8	60.5	88	46	55	54	80	85	.436	.424	3.62	1.71		5.8	4.3	5.9
July	29.76	30.00	29.42	69.0	67.2	77.7	58.9	68.3	93	53	56	56	66	68	.462	.448	.96	.28		3.3	3.8	4.1
August	29.83	30.14	29.37	65.9	66.2	74.1	59.4	66.8	90	53	59	58	79	76	.503	.483	2.74	.96		3.7	4.2	5.2
September	29.87	30.24	29.50	54.6	55.8	63.7	47.8	55.8	74	39	50	51	83	84	.361	.376	2.33	.80		4.8	5.0	5.5
October	29.97	30.51	29.34	49.1	50.6	57.2	44.4	50.8	75	30	45	46	86	85	.312	.325	5.13	3.19		2.8	4.5	4.8
November	29.94	30.50	29.34	35.9	39.2	45.6	31.4	38.5	58	15	29	31	75	72	.168	.181	1.83	1.02		4.6	3.5	4.7
December	29.93	30.69	29.26	21.1	23.7	28.5	15.6	22.0	46	−9	15	16	78	73	.095	.103	5.42	1.45		7.4	4.1	6.3
Year	29.87	30.69	28.66	42.1	43.8	50.6	35.8	43.2	93	−9	35	36	76	74	.253	.255	43.61	3.19		5.1	4.6	5.4

PORTLAND, OREG.

[λ = 45° 32′ N.; φ = 122° 43′ W.; gravity corr., 0.]

January	30.00	30.36	29.36	31.4	36.8	39.5	28.7	34.1	56	12	30	31	95	81	.170	.177	2.12	.75		4.8	5.6	6.4
February	29.92	30.33	29.36	34.6	40.0	42.9	31.4	37.2	53	8	33	35	96	84	.197	.210	5.19	.86		7.6	8.0	8.5
March	29.75	30.19	29.22	40.5	48.1	49.9	38.9	44.4	62	32	38	37	90	69	.228	.225	3.48	.85		7.5	7.4	7.1
April	29.87	30.19	29.22	41.9	48.9	51.1	40.7	45.9	62	32	40	40	92	75	.246	.257	4.89	.77		8.9	8.3	7.9
May	29.90	30.27	29.49	47.0	60.4	62.5	46.3	54.4	78	40	44	42	88	54	.285	.274	2.30	.54		7.0	6.5	6.3
June	29.92	30.11	29.59	51.1	63.4	65.3	49.9	57.6	81	44	44	45	79	53	.290	.300	.99	.30		7.3	6.8	6.1
July	29.87	30.02	29.62	54.9	73.6	75.1	53.9	64.5	92	48	50	50	84	45	.364	.358	.14	.07		4.6	3.7	5.9
August	29.83	30.07	29.52	56.4	76.0	77.3	55.2	66.2	94	46	52	50	86	42	.391	.367	T.	T.		2.7	2.1	3.7
September	29.79	30.10	29.55	52.4	62.4	65.2	50.6	57.9	77	43	49	50	90	67	.354	.370	2.56	.68		6.0	5.8	6.7
October	29.93	30.29	29.50	44.9	53.2	56.3	42.7	49.5	67	33	43	44	92	74	.276	.295	5.01	2.03		5.7	6.1	6.4
November	29.93	30.36	29.24	43.1	47.5	51.4	39.9	45.6	62	28	40	41	89	78	.257	.260	7.74	1.85		4.8	6.7	6.7
December	30.00	30.41	29.43	42.2	44.8	48.5	39.2	43.8	58	28	40	40	91	85	.247	.255	4.61	1.42		6.7	7.6	8.2
Year	29.89	30.41	29.22	45.0	54.6	57.1	43.1	50.1	94	8	42	42	89	67	.275	.279	39.03	20.3		6.1	6.1	6.5

PUEBLO, COLO.

[λ = 38° 18′ N.; φ = 104° 36′ W.; gravity corr., −0.02.]

January	25.22	25.60	24.69	27.2	41.5	50.8	22.3	36.6	66	10	12	13	56	35	.073	.079	.10	.09		3.1	2.2	3.3
February	25.18	25.62	24.67	21.5	39.4	45.5	18.3	31.9	63	−2	12	17	66	42	.072	.093	.11	.06		4.0	3.6	4.1
March	25.14	25.60	24.62	27.0	50.2	56.6	24.3	40.4	82	10	14	13	57	25	.079	.080	.01	.01		3.1	5.1	4.8
April	25.13	25.44	24.69	35.2	58.3	62.4	32.8	47.6	79	15	16	8	47	21	.091	.074	.29	.13		3.3	5.9	4.8
May	25.17	25.60	24.70	45.7	67.9	72.0	42.2	57.1	90	24	29	18	57	22	.164	.124	.39	.38		3.9	5.1	4.6
June	25.21	25.55	24.89	59.3	82.6	87.3	55.0	71.2	101	40	37	25	48	17	.233	.157	.57	.49		1.5	5.5	3.3
July	25.29	25.55	25.00	63.8	81.3	88.3	60.3	74.3	98	54	48	42	61	31	.353	.286	2.87	1.51		3.0	6.1	4.1
August	25.31	25.53	25.13	60.7	76.1	83.4	58.8	71.1	93	50	51	47	71	41	.378	.339	1.87	.80		4.6	6.2	5.2
September	25.22	25.59	24.79	51.8	74.1	80.2	49.8	65.0	91	42	32	28	51	24	.192	.171	.10	.10		2.2	2.9	2.7
October	25.27	25.59	24.88	39.3	60.6	69.4	36.5	53.0	85	23	22	19	51	22	.116	.105	.18	.08		3.3	2.9	3.5
November	25.25	25.57	24.82	27.6	45.2	55.3	23.4	39.4	72	9	12	12	51	29	.074	.077	.06	.06		3.7	3.3	3.6
December	25.27	25.63	24.94	27.7	41.1	51.0	22.3	36.6	64	8	14	16	59	38	.081	.090	.29	.15		5.0	3.5	4.5
Year	25.22	25.63	24.62	40.6	59.9	66.8	37.2	52.0	101	−2	25	22	56	29	.159	.140	6.84	1.51		3.4	4.4	4.0

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

PORT HURON, MICH.

[H = 639 ft.; h_t = 70 ft.; h_r = 63 ft.; h_s = 108 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Maximum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	10.0	SW.	46	W.	1	0	5	2	7	10	16	7	15	0	9	7	15	19	12	17	0	0	27	0	31	1	0
February	12.7	SW.	47	NW.	4	3	8	0	6	9	12	5	11	2	6	16	6	17	13	14	0	2	18	0	28	0	0
March	12.3	SW.	42	SW.	1	10	8	4	10	7	14	4	5	0	11	7	13	17	9	8	1	1	10	0	25	1	0
April	13.8	NE.	60	SW.	6	6	11	4	10	6	8	6	9	0	4	11	15	19	13	1	0	0	0	0	9	4	0
May	11.4	N.	54	SW.	1	17	6	2	5	14	7	5	6	0	10	11	10	11	9	0	1	1	0	0	0	2	0
June	9.3	NE.	35	NE.	0	3	18	4	7	7	14	3	4	0	20	5	5	11	10	0	0	0	0	1	0	6	0
July	9.3	NE.	36	NW.	0	6	16	2	5	10	13	6	4	0	16	12	3	14	9	0	0	0	0	3	0	5	0
August	9.8	S.	40	SW.	1	11	10	4	5	17	5	3	5	2	19	9	3	9	7	0	0	1	0	0	0	3	0
September	11.2	SW.	38	NW.	0	3	6	7	10	5	10	9	10	0	11	11	8	11	7	0	0	1	0	6	0	0	0
October	11.1	S.	40	NW.	1	1	3	4	10	19	9	7	9	0	15	6	10	13	7	0	0	4	0	0	4	0	0
November	12.8	SW.	42	SW.	1	1	1	1	8	9	18	13	9	0	6	8	16	9	9	5	0	3	3	0	15	0	0
December	14.3	SW.	39	SW.	0	6	1	3	3	6	22	9	12	0	2	11	18	23	16	16	0	0	19	0	28	0	0
Year	11.5	SW.	60	SW.	16	67	93	37	86	119	148	77	99	4	129	114	122	173	121	61	3	12	77	6	140	22	0

PORTLAND, ME.

[H = 103 ft.; h_t = 81 ft.; h_r = 75 ft.; h_s = 89 ft.]

January	7.8	N.	26	NW.	0	23	0	1	0	2	5	16	14	1	8	10	13	12	10	11	0	1	26	0	30	0	0
February	9.3	N.	38	S.	0	14	1	0	2	5	10	13	11	0	9	10	9	14	11	13	0	0	16	0	26	0	0
March	9.0	NW.	30	SE.	0	5	10	1	4	5	11	8	16	0	14	7	10	9	7	3	0	0	8	0	28	0	0
April	9.0	NW.	36	NW.	0	5	4	6	7	7	9	8	13	1	8	8	14	16	9	4	0	1	0	0	14	2	0
May	8.6	S.	43	E.	1	2	8	7	4	14	8	6	12	1	8	5	18	14	10	0	0	3	0	0	0	0	0
June	7.2	S.	22	SW.	0	6	9	9	8	13	5	4	5	1	9	8	13	10	9	0	0	4	0	0	0	2	0
July	7.5	SW.	32	W.	0	4	3	3	3	10	17	12	9	1	17	6	8	8	7	0	0	1	0	1	0	3	0
August	7.6	NW.	40	SE.	1	2	9	4	7	10	9	8	11	2	9	12	10	13	8	0	0	4	0	0	0	1	0
September	7.7	NW.	31	SE.	0	3	1	0	12	10	7	13	13	1	8	12	10	15	13	0	0	0	0	0	0	2	0
October	7.6	S.	36	W.	0	4	2	4	5	12	11	7	15	2	10	14	7	10	8	0	0	5	0	0	2	1	0
November	7.6	S.	36	E.	0	5	0	1	4	18	6	14	8	4	10	12	8	6	6	1	0	1	2	0	11	0	0
December	7.6	NW.	30	W.	0	8	2	0	0	0	18	13	17	4	6	11	14	19	17	13	0	0	19	0	28	0	0
Year	8.0	NW.	43	E.	2	81	49	36	56	106	116	122	146	18	116	115	134	146	115	45	0	20	71	1	139	11	0

PORTLAND, OREG.

[H = 157 ft.; h_t = 200 ft.; h_r = 196 ft.; h_s = 209 ft.]

January	7.0	SE.	38	NE.	0	20	5	5	11	7	3	1	9	1	7	9	15	8	8	6	0	10	3	0	24	0	0
February	8.0	SW.	40	E.	1	2	3	0	13	13	9	0	16	0	0	5	23	23	18	8	0	2	2	0	11	0	0
March	9.8	SW.	44	E.	1	3	2	4	10	13	16	3	11	0	3	11	17	22	18	1	0	1	0	0	0	0	0
April	9.8	SW.	44	SW.	1	7	0	1	6	14	17	5	10	0	9	12	18	24	19	0	1	0	0	0	0	0	0
May	7.6	NW.	33	SE.	0	11	0	2	7	11	5	8	17	0	7	14	10	17	13	0	1	0	0	0	0	0	0
June	8.6	N.	38	SW.	0	24	2	0	4	8	6	4	11	1	7	7	16	8	7	0	0	0	0	0	0	0	0
July	6.7	N.	24	NW.	0	31	0	0	2	3	3	3	18	2	14	13	4	5	2	0	0	0	0	0	2	0	1
August	8.1	NW.	35	SW.	0	19	3	0	1	7	0	1	30	1	16	11	4	0	0	0	0	4	0	1	0	0	0
September	7.4	S.	30	SW.	0	11	1	0	4	18	10	3	13	0	7	5	18	12	8	0	0	6	0	0	0	0	0
October	8.2	NW.	36	SW.	0	15	1	2	6	15	7	1	14	1	7	10	14	18	14	0	0	6	0	0	0	0	0
November	9.9	SW.	44	SW.	1	5	1	2	6	15	13	3	15	0	7	6	17	17	16	0	0	8	0	0	5	0	0
December	8.4	SW.	36	SW.	0	9	2	2	11	12	15	5	5	1	2	5	24	18	15	0	0	9	0	0	2	0	0
Year	8.3	NW.	44	E.,SW.	4	157	20	19	81	136	104	37	169	7	77	108	180	172	138	15	2	45	5	3	42	0	1

PUEBLO, COLO.

[H = 4,734 ft.; h_t = 74 ft.; h_r = 65 ft.; h_s = 81 ft.]

January	9.0	W.	48	E.	4	12	3	7	5	1	2	17	14	1	15	15	1	2	1	2	0	0	3	0	28	0	0
February	8.6	NW.	48	N.	4	6	5	5	9	3	3	8	17	0	11	14	3	5	1	5	0	0	3	0	25	0	0
March	9.5	NW.	48	W.	3	8	3	8	5	0	5	15	16	2	9	21	1	1	0	1	0	0	0	0	26	0	0
April	10.2	NW.	52	SW.	4	6	8	9	4	0	4	13	16	0	10	13	7	5	4	5	0	0	0	0	18	0	0
May	9.6	NW.	48	SW.	3	9	2	10	7	5	4	5	17	3	10	15	6	3	2	1	0	0	0	0	4	1	0
June	8.2	E.	54	NW.	2	9	6	15	5	1	2	8	14	0	14	14	2	3	2	0	1	0	0	15	0	3	0
July	7.7	W.	60	NE.	2	4	3	8	10	2	2	19	12	2	14	11	6	9	7	0	1	0	0	13	0	14	0
August	6.7	E.	36	N.	0	12	3	17	6	2	5	6	9	2	7	17	7	9	7	0	1	0	0	5	0	12	0
September	6.5	NW.	42	SW.	1	4	3	13	11	2	5	5	15	2	19	8	3	1	1	0	0	0	1	2	0	0	0
October	7.2	NW.	42	N.	1	7	4	11	4	2	3	10	17	4	17	12	2	4	3	1	0	0	0	0	9	0	0
November	7.9	W.	43	N.	2	8	8	10	5	2	3	14	10	0	16	10	4	1	1	1	0	0	1	0	26	0	0
December	7.6	W.	42	W.	1	4	2	8	6	4	3	21	13	1	11	16	4	5	2	5	0	1	0	0	29	0	0
Year	8.3	NW.	60	NE.	27	89	50	121	77	24	41	141	170	17	153	166	46	48	31	20	3	2	7	35	165	30	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

PORT CRESCENT, WASH.

[$\lambda = 48°\ 10'$ N.; $\phi = 123°\ 44'$ W.; gravity corr., —.]

Month.	Pressure.			Temperature.							Moisture.									Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.					
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.		8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*				
January						39.7	29.5	34.6	49	9							4.14	.63				
February						a37.2	20.3	31.8	46	8							7.90	1.87				
March						b45.4	31.8	38.6	50	26							5.01	1.47				
April						49.7	35.3	42.5	56	29							5.70	.93				
May						b56.4	43.1	49.8	67	36							2.33	.60				
June						60.8	44.0	52.4	76	38							1.83	.33				
July						66.6	45.9	56.2	80	41							.17	.08				
August						68.6	44.1	56.4	82	26							.00	.00				
September						62.4	34.4	48.4	72	22							1.50	.52				
October						52.9	37.6	45.2	60	27							3.94	1.10				
November						44.0	33.0	38.5	55	25							9.38	1.93				
December						45.5	34.5	40.0	59	29							6.89	1.16				
Year						52.4	36.6	44.5	82	8							48.79	1.93				

a For 23 days. *b* For 30 days.

RALEIGH, N. C.

[$\lambda = 35°\ 45'$ N.; $\phi = 78°\ 37'$ W.; gravity corr., —0.02.]

January	29.62	30.02	29.01	26.3	35.0	40.4	21.1	30.8	65	2	20	27	75	73	.125	.164	3.70	1.15	5.3	3.4	5.2
February	29.76	30.30	29.18	40.6	47.2	52.2	35.5	43.8	72	21	36	41	82	79	.226	.267	6.17	2.00	5.6	5.5	6.1
March	29.67	30.08	28.97	44.0	51.9	57.7	38.7	48.2	78	21	38	43	81	74	.254	.298	1.59	.46	4.7	4.9	5.7
April	29.65	29.94	29.13	57.9	66.3	73.0	51.5	62.2	91	37	48	52	73	62	.363	.409	1.40	.77	5.0	3.6	5.9
May	29.54	29.96	29.02	62.8	69.0	76.6	55.6	66.1	90	45	56	58	78	70	.455	.488	5.80	1.38	4.2	4.8	4.7
June	29.62	29.85	29.31	71.3	75.2	83.0	65.3	74.2	91	57	64	65	80	73	.613	.631	4.15	1.06	5.5	6.4	5.9
July	29.62	29.87	29.43	76.4	79.1	90.7	69.0	79.8	100	62	68	68	74	69	.676	.672	3.79	1.25	4.4	5.4	4.5
August	29.58	29.74	29.06	72.8	75.8	84.1	67.9	76.0	93	61	68	68	84	78	.684	.680	7.80	2.78	5.5	6.1	5.9
September	29.66	29.84	29.45	66.4	71.0	79.8	61.5	70.6	92	44	60	63	82	76	.543	.584	3.20	1.16	4.4	4.7	4.9
October	29.69	30.05	28.26	55.0	60.9	68.5	50.6	59.6	84	31	50	52	85	75	.387	.417	5.57	2.44	3.9	3.1	3.5
November	29.72	30.25	29.35	43.4	50.3	57.6	39.9	48.8	74	20	38	40	81	68	.244	.265	1.97	.81	5.4	5.2	5.3
December	29.80	30.40	29.28	38.8	46.0	54.1	35.2	44.6	74	21	33	34	80	65	.203	.211	4.38	2.12	3.6	3.9	3.9
Year	29.66	30.40	28.26	54.6	60.6	68.1	49.3	58.7	100	2	48	51	80	72	.398	.424	49.52	2.78	4.8	4.8	5.1

RAPID CITY, S. DAK.

[$\lambda = 44°\ 4'$ N.; $\phi = 103°\ 12'$ W.; gravity corr., 0.]

January	26.57	26.91	26.11	22.0	25.3	36.2	15.4	25.8	63	—21	11	14	65	62	.082	.089	.30	.07	6.1	4.5	5.3
February	26.58	27.05	26.16	12.9	18.8	27.5	6.6	17.0	58	—26	3	9	65	65	.062	.075	.45	.12	4.9	5.0	5.4
March	26.55	27.04	25.97	22.6	33.0	40.6	18.9	29.8	78	— 2	14	22	70	65	.088	.120	.92	.38	5.9	6.1	5.9
April	26.52	26.80	25.89	34.8	44.9	50.6	29.6	40.1	77	22	23	26	64	53	.124	.142	1.05	.39	6.2	6.9	7.0
May	26.54	26.82	25.81	45.3	59.6	64.0	39.8	51.9	90	26	33	36	64	46	.188	.212	1.73	.57	4.7	6.4	5.8
June	26.53	26.81	26.24	61.1	75.6	80.9	55.1	68.0	103	42	46	42	59	36	.316	.289	1.21	.43	4.3	5.6	5.0
July	26.61	26.88	26.33	64.7	80.2	86.2	59.0	72.6	98	46	52	48	65	37	.395	.353	1.51	.71	3.4	5.8	4.6
August	26.62	26.91	26.33	60.0	77.9	84.1	56.2	70.2	101	43	44	42	57	31	.300	.278	.63	.24	3.5	4.3	4.2
September	26.55	26.96	26.12	51.3	69.3	76.7	48.8	62.8	96	25	34	34	53	32	.203	.204	.06	.05	3.3	3.9	3.7
October	26.59	26.96	26.20	38.3	48.8	59.2	34.4	46.8	84	20	28	30	68	51	.153	.168	1.01	.49	4.1	4.5	4.8
November	26.59	26.97	26.13	30.6	32.9	44.1	23.2	33.6	69	— 6	17	21	59	62	.097	.117	.35	.15	5.4	5.2	6.4
December	26.58	26.96	26.23	26.0	28.6	38.1	18.1	28.1	61	— 7	18	19	69	68	.101	.106	.39	.14	5.8	4.4	6.0
Year	26.57	27.05	25.81	39.1	49.6	57.4	33.8	45.6	103	—26	27	29	63	51	.176	.179	9.61	.71	4.8	5.2	5.3

RED BLUFF, CAL.

[$\lambda = 40°\ 10'$ N.; $\phi = 122°\ 15'$ W.; gravity corr., —0.01.]

January	29.76	30.02	29.11	37.8	48.0	51.1	35.3	43.2	65	28	36	42	96	82	.216	.268	3.82	1.89	2.3	2.8	5.2
February	29.78	30.02	29.38	41.2	53.2	55.3	38.2	46.8	70	27	36	39	82	64	.213	.243	3.22	1.40	3.3	5.4	4.5
March	29.63	30.00	29.08	44.8	55.3	57.8	41.9	49.8	76	33	42	44	92	70	.277	.292	6.08	1.20	6.2	6.3	5.8
April	29.71	30.00	29.23	46.7	62.6	64.8	44.3	54.6	78	37	41	49	83	47	.265	.261	1.42	.65	4.2	5.5	5.3
May	29.61	29.99	29.34	55.4	76.6	77.9	53.6	65.8	96	41	42	42	65	33	.277	.280	.61	.26	3.5	2.9	3.4
June	29.57	29.76	29.38	60.5	86.9	87.7	59.1	73.4	101	51	43	40	55	20	.286	.248	.00	.00	.1	.6	.2
July	29.51	29.68	29.35	67.0	95.0	95.6	65.1	80.4	105	56	46	44	48	18	.314	.290	.08	.03	.2	.8	.5
August	29.48	29.62	29.31	67.7	95.9	96.5	65.5	81.0	106	57	48	46	51	19	.340	.319	.00	.00	.1	.0	.0
September	29.54	29.71	29.36	58.4	77.3	79.0	56.0	67.5	91	46	49	47	74	38	.357	.332	1.23	.81	2.5	2.8	2.4
October	29.68	29.89	29.37	52.0	71.3	73.5	49.2	61.4	84	40	42	44	70	39	.266	.285	1.09	.96	1.3	2.1	1.3
November	29.78	29.98	29.42	46.4	60.4	63.3	43.7	53.5	79	32	38	40	76	54	.247	.267	4.22	1.85	3.8	3.9	4.3
December	29.83	30.10	29.43	44.6	54.7	58.1	42.4	50.2	76	32	41	44	89	71	.263	.294	2.64	.85	3.7	4.5	4.6
Year	29.66	30.10	29.08	51.9	69.8	71.7	49.5	60.6	106	27	42	43	73	46	.277	.282	24.36	1.89	2.6	3.1	3.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

PORT CRESCENT, WASH.

[H = — ft.; h_t = — ft.; h_r = 1 ft.; h_a = — ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	.....	NE.	....	.....	....	0	9	6	3	0	8	5	0	0	0	13	18	13	12	5	0	0	6	0	19	0	0
February(b)	.....	W.	....	.....	....	0	6	3	1	0	6	12	0	0	2	1	25	19	19	7	0	0	4	0	22	0	0
March(c)	.....	SE.	....	.....	....	0	0	6	10	1	7	7	0	0	9	2	20	14	14	0	0	0	0	0	15	0	0
April	.....	SW.	....	.....	....	0	0	3	2	0	15	10	0	0	8	6	16	18	18	0	0	0	0	0	5	0	0
May(c)	.....	W.	....	.....	....	0	0	1	2	2	8	18	0	0	9	10	12	14	12	0	0	0	0	0	0	0	0
June	.....	SW.	....	.....	....	0	0	2	0	1	14	11	1	1	11	2	17	11	9	0	0	0	0	0	0	0	0
July	.....	W.	....	.....	....	0	0	3	0	2	9	16	0	1	25	4	2	3	3	0	0	0	0	0	0	1	0
August	.....	W.	....	.....	....	0	0	7	0	0	6	17	0	1	28	1	2	0	0	0	0	0	0	0	3	0	0
September	.....	W.	....	.....	....	0	2	2	5	0	8	13	0	0	17	5	8	11	10	0	0	0	0	0	10	0	0
October	.....	SW.	....	.....	....	0	0	9	2	0	12	8	0	0	10	7	14	10	10	1	0	0	0	0	4	0	0
November	.....	E.	....	.....	....	0	3	8	7	1	6	5	0	0	10	3	17	18	18	2	0	0	0	0	10	0	0
December	.....	SW.	....	.....	....	0	0	2	6	1	16	4	0	2	3	7	21	16	16	3	0	0	0	0	7	0	0
Year	.....	W.	....	.....	....	0	20	52	38	8	115	126	1	5	132	61	172	147	141	18	0	0	10	0	95	1	0

b For 23 days. c For 30 days.

RALEIGH, N. C.

[H = 388 ft.; h_t = 70 ft.; h_r = 2 ft.; h_a = 80 ft.]

January	.....	6.2	NW.	28	NW.	0	10	3	2	2	11	13	4	15	2	13	6	12	9	9	7	0	2	11	0	23	0	0
February	.....	7.7	SW.	34	NW.	0	10	10	1	2	3	14	3	13	0	12	2	14	13	11	0	0	2	0	0	10	0	0
March	.....	7.3	N.	34	NW.	0	17	9	1	3	14	9	2	6	1	11	7	13	13	10	4	0	2	0	0	9	1	0
April	.....	7.2	SW.	32	SW.	0	5	14	1	5	12	16	2	5	0	9	8	13	9	6	0	0	1	0	1	0	1	0
May	.....	5.8	S.	30	NW.	0	4	3	5	5	17	13	4	10	1	13	9	9	13	12	0	0	0	0	0	0	7	0
June	.....	5.2	SW.	30	NW.	0	6	8	10	2	7	11	4	9	3	8	11	11	11	11	0	0	0	0	1	0	7	0
July	.....	4.9	SW.	34	NW.	0	7	8	7	2	7	14	7	6	4	11	17	3	9	7	0	1	0	0	18	0	9	0
August	.....	5.2	NE.	28	N.	0	9	16	9	2	10	10	1	2	3	9	8	14	10	9	0	0	1	0	3	0	4	0
September	....	4.8	SW.	24	NW.	0	13	10	5	3	4	14	5	6	0	13	7	10	10	7	0	0	3	0	2	0	2	0
October	.....	6.3	N.	36	E.	0	21	12	3	3	3	6	2	9	3	20	5	6	9	8	0	0	4	0	0	2	1	0
November	....	7.3	N.	28	N.	0	18	8	0	1	8	13	5	7	0	12	6	12	11	9	0	0	3	0	0	6	0	0
December	....	7.1	SW.	25	NW.	0	12	5	0	1	6	22	7	8	1	17	3	11	7	6	1	0	2	1	0	11	0	0
Year	.....	6.2	SW.	36	E.	0	132	106	44	31	102	155	46	96	18	148	89	128	124	105	12	1	20	12	25	61	32	0

RAPID CITY, S. DAK.

[H = 3,280 ft.; h_t = 53 ft.; h_r = 46 ft.; h_a = 61 ft.]

January	.....	10.6	NW.	48	NW.	2	11	4	2	5	3	8	10	17	2	12	10	9	10	3	8	0	1	11	0	30	0	0
February	.....	9.4	N.	37	S.	0	12	4	1	6	3	10	8	11	1	7	14	7	10	5	11	0	0	15	0	27	0	0
March	.....	9.8	NW.	48	NW.	1	12	3	3	5	11	10	5	12	1	7	13	11	10	7	8	0	0	11	0	27	0	0
April	.....	12.2	NW.	63	SW.	1	8	1	4	10	3	5	8	21	0	6	8	16	11	6	11	0	0	0	0	20	1	0
May	.....	9.3	SE.	48	W.	2	7	2	6	13	3	6	10	12	3	8	12	11	11	8	1	1	0	0	0	4	4	9
June	.....	10.2	N.	38	SE.	0	15	4	0	5	10	3	15	7	1	11	13	6	10	6	0	0	0	0	7	0	10	0
July	.....	8.9	W.	36	NW.	0	10	2	8	10	10	3	13	4	2	11	15	5	8	6	0	0	0	0	9	0	17	2
August	.....	9.7	N.	36	S.	0	12	3	7	10	9	4	9	8	0	9	20	2	7	5	0	0	0	0	9	0	6	2
September	....	10.6	W.	42	NW.	1	11	2	1	12	5	4	15	10	0	16	10	4	2	1	0	0	0	0	7	2	1	1
October	.....	9.0	W.	36	NW.	0	7	2	2	5	5	8	20	11	2	13	10	8	6	3	1	0	0	1	0	11	0	0
November	....	9.7	W.	40	NW.	1	11	0	0	2	4	6	27	9	1	8	9	13	7	2	6	0	0	6	0	24	0	2
December	....	8.5	W.	37	NW.	0	4	3	5	6	2	4	24	12	2	8	9	14	11	3	6	0	1	8	0	29	0	0
Year	.....	9.8	W.	63	SW.	8	120	30	39	89	68	71	164	134	15	116	143	106	103	55	52	1	2	52	32	174	39	7

RED BLUFF, CAL.

[H = 342 ft.; h_t = 54 ft.; h_r = 44 ft.; h_a = 58 ft.]

January	.....	4.3	SE.	36	NW.	0	0	1	3	23	2	0	4	18	11	5	18	8	6	6	0	0	17	0	0	6	0	0
February	.....	8.1	NW.	36	NW.	0	5	0	0	11	5	1	4	30	0	13	8	7	8	6	0	1	2	0	0	3	0	0
March	.....	8.1	SE.	40	SE.	2	3	1	2	27	13	1	1	14	0	7	13	11	22	18	0	0	0	0	0	0	0	0
April	.....	8.3	NW.	32	SE.	0	5	0	1	13	13	2	2	18	1	7	13	7	9	6	0	2	0	0	0	0	1	0
May	.....	9.1	NW.	34	NW.	0	1	1	0	15	5	2	4	34	0	19	8	4	6	4	0	0	0	0	3	0	0	0
June	.....	7.4	NW.	30	NW.	0	6	4	3	17	3	0	2	22	3	30	0	0	0	0	0	0	0	0	11	0	0	0
July	.....	5.8	NW.	26	NW.	0	7	0	1	20	4	3	3	23	1	31	0	0	1	0	0	0	0	0	26	0	1	0
August	.....	4.6	SE.	24	NW.	0	1	0	5	23	5	3	0	22	3	31	0	0	0	0	0	0	0	0	28	0	0	0
September	....	6.8	NW.	36	NW.	0	2	1	4	18	8	1	2	22	2	20	8	2	9	4	0	0	0	0	1	0	1	0
October	.....	6.2	NW.	26	SE.	0	5	2	1	14	3	0	0	36	1	27	3	1	5	2	0	0	0	0	0	0	0	0
November	.....	7.3	NW.	30	SE.	0	4	0	2	21	1	0	2	27	3	17	3	10	10	10	0	0	1	0	0	1	0	0
December	.....	5.8	NW.	22	NW.	0	2	0	0	16	4	0	3	32	5	14	10	7	10	8	0	0	5	0	0	0	0	0
Year	.....	6.8	NW.	40	SE.	2	41	10	22	218	66	13	27	298	30	221	84	57	86	64	0	3	25	0	89	10	3	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

RED WING, MINN.

[λ=44° 34′ N.; ϕ=92° 38′ W.; gravity corr. 0.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.			
January	29.20	29.62	28.58	—0.6	6.6	11.8	—5.5	3.2	34	—26	—10	—1	65	68	.032	.045	.92	.26	6.2	5.2	6.0
February	29.26	30.04	28.54	5.5	14.9	19.8	0.3	10.0	39	—26	—3	6	66	65	.049	.063	2.84	2.17	6.3	5.2	5.5
March	29.19	29.80	28.52	17.2	28.0	31.9	13.1	22.5	52	—14	11	19	75	68	.086	.113	2.31	1.06	6.5	4.5	5.5
April	29.05	29.41	28.26	36.0	42.8	47.0	32.1	39.6	72	23	29	32	76	68	.162	.185	4.14	1.04	7.3	7.0	7.3
May	29.09	29.48	28.63	50.1	59.5	64.2	43.4	53.8	81	33	40	40	70	52	.252	.255	2.17	.61	5.0	5.3	5.6
June	29.11	29.32	28.88	67.5	76.0	81.0	61.6	71.3	94	48	57	60	71	58	.480	.520	2.28	.68	3.5	4.1	4.0
July	29.14	29.41	28.78	68.5	79.2	84.4	62.1	73.2	98	53	60	59	74	52	.513	.514	2.63	1.51	3.5	2.7	3.6
August	29.18	29.47	28.94	62.0	73.3	79.9	57.5	68.7	97	38	53	55	73	54	.409	.442	2.18	.95	3.0	3.5	4.2
September																					
October																					
November																					
December																					
Year																					

ROCHESTER, N. Y.

[λ=43° 8′ N.; =77° 42′ W.; gravity corr., 0.]

January	29.37	29.88	28.52	15.5	18.4	22.6	11.5	17.0	48	—6	12	14	82	83	.078	.088	1.50	.59	8.7	8.1	8.6
February	29.54	30.28	28.57	20.9	23.3	28.2	14.5	21.4	44	—1	16	18	82	80	.098	.103	3.31	.60	8.5	6.2	8.1
March	29.47	30.02	29.03	29.9	32.1	37.5	25.0	31.2	63	10	25	26	81	78	.140	.147	1.81	.70	6.7	5.3	6.6
April	29.47	29.92	28.83	41.0	42.1	50.3	34.5	42.4	76	25	32	35	72	76	.188	.205	3.97	1.56	6.8	5.0	6.3
May	29.32	29.79	28.66	54.7	55.4	65.5	46.6	56.0	90	38	45	48	73	77	.313	.341	5.69	2.58	6.3	5.6	6.6
June	29.46	29.73	29.07	69.8	70.1	80.7	60.4	70.6	92	51	58	59	68	68	.498	.499	.94	.38	4.1	3.9	4.7
July	29.42	29.68	29.16	67.9	71.4	81.6	61.0	71.3	95	50	58	60	72	68	.496	.526	2.87	.74	5.6	3.4	4.5
August	29.46	29.69	28.76	66.5	69.4	78.7	59.1	68.9	97	48	57	59	74	70	.478	.502	5.61	4.19	3.5	3.7	4.5
September	29.48	29.73	29.12	56.3	58.5	67.7	51.2	59.4	79	38	49	52	78	79	.363	.396	2.20	.82	5.8	3.0	4.8
October	29.52	29.94	28.36	49.3	52.0	61.5	43.9	52.7	84	28	43	46	78	81	.285	.326	1.83	.99	4.9	2.6	5.0
November	29.50	30.10	29.00	36.3	38.9	45.7	33.0	39.4	66	22	30	32	77	76	.165	.182	1.93	.57	6.4	5.7	6.6
December	29.52	30.21	28.90	26.6	27.6	34.1	20.7	27.4	62	5	22	24	84	85	.132	.135	3.84	.89	9.2	8.0	7.6
Year	29.46	30.28	28.36	44.6	46.6	54.5	38.4	46.5	97	—6	37	39	77	77	.270	.288	35.50	4.19	6.4	5.0	6.2

ROSEBURG, OREG.

[λ=43° 13′ N.; ϕ=123° 20′ W.; gravity corr., 0.]

January	29.57	29.89	28.76	32.5	39.1	40.2	31.0	35.6	53	23	31	35	96	87	.176	.206	3.14	1.13	3.9	5.7	4.8
February	29.55	29.95	29.05	36.8	45.8	47.3	34.8	41.0	58	20	34	36	90	72	.197	.219	7.01	1.33	8.0	9.6	8.8
March	29.36	29.84	28.72	39.3	52.0	54.8	37.9	46.4	75	26	36	38	88	60	.219	.234	2.02	.41	7.6	8.4	8.0
April	29.52	29.88	28.94	42.0	51.3	53.8	40.9	47.4	70	33	39	39	89	64	.238	.238	4.11	.91	8.9	8.9	8.9
May	29.52	29.87	29.16	45.4	63.1	65.5	44.5	55.0	78	37	42	42	90	49	.273	.270	2.41	.81	6.2	5.7	5.9
June	29.53	29.70	29.19	47.3	67.6	69.8	46.4	58.1	92	36	44	44	90	46	.294	.296	.69	.40	5.7	4.7	5.2
July	29.47	29.65	29.26	51.1	76.9	78.7	50.8	64.8	96	43	48	48	90	38	.337	.338	.05	.05	3.8	2.5	3.1
August	29.43	29.64	29.25	52.5	79.0	80.5	51.6	66.0	93	45	49	49	89	36	.352	.348	.01	.01	2.5	1.4	2.0
September	29.42	29.71	29.20	50.5	63.1	65.4	49.4	57.4	79	41	48	50	94	63	.343	.362	3.80	.83	6.3	6.2	6.2
October	29.57	29.90	29.24	44.9	54.6	56.8	43.1	50.0	65	36	43	46	95	75	.282	.318	5.00	1.36	4.7	6.3	5.5
November	29.58	29.92	29.02	42.2	48.6	51.4	39.9	45.6	65	23	39	42	91	80	.247	.275	6.08	1.75	5.5	7.0	6.3
December	29.65	30.01	29.15	39.4	45.6	48.5	37.6	43.0	62	27	38	40	95	83	.234	.258	3.54	.98	5.9	7.2	6.6
Year	29.51	30.01	28.72	43.7	57.2	59.4	42.3	50.9	96	20	41	42	91	63	.266	.280	37.86	1.75	5.8	6.1	5.9

SACRAMENTO, CAL.

[λ=38° 35′ N.; ϕ=121° 30′ W.; gravity corr.,—0.02.]

January	30.05	30.32	29.36	39.5	44.1	46.1	38.1	42.1	56	34	38	39	93	83	.228	.238	2.27	1.06	3.2	4.1	3.2
February	30.06	30.31	29.75	43.2	52.9	55.4	41.2	48.3	67	30	40	42	88	68	.248	.269	2.06	.92	3.2	4.5	5.2
March	29.93	30.34	29.52	46.9	58.1	58.9	45.0	52.0	74	35	44	47	90	72	.292	.322	3.51	1.18	5.8	5.9	6.4
April	30.01	30.22	29.58	47.2	62.4	65.4	46.0	55.7	77	38	43	43	86	51	.279	.284	1.08	.80	3.1	3.4	3.3
May	29.89	30.23	29.64	53.9	72.4	75.2	52.2	63.7	89	45	48	50	81	47	.335	.371	1.05	.78	2.0	2.5	2.1
June	29.85	30.03	29.59	55.2	79.3	82.8	54.2	68.5	95	48	49	55	82	44	.354	.436	0	0	.2	.2	0.3
July	29.79	29.95	29.64	59.3	86.4	89.7	58.3	74.0	102	50	52	58	77	39	.383	.478	0	0	.2	.2	0.3
August	29.77	29.91	29.60	58.5	86.0	90.3	57.9	74.1	102	54	51	58	78	39	.380	.478	0	0	.2	.2	0.3
September	29.82	30.00	29.64	53.9	74.3	78.2	52.7	65.4	89	44	49	49	84	43	.347	.357	.22	.16	1.6	2.1	1.8
October	29.96	30.16	29.70	49.6	68.4	72.7	47.7	60.2	81	38	42	45	77	44	.275	.301	.12	.12	1.0	1.9	2.5
November	30.07	30.26	29.78	45.9	59.8	63.9	43.4	53.6	72	32	39	42	79	56	.261	.278	2.92	1.04	3.4	3.7	4.4
December	30.12	30.38	29.65	43.1	52.6	56.3	40.9	48.6	69	28	41	45	92	76	.261	.289	1.76	.76	3.1	4.9	4.8
Year	29.94	30.38	29.36	49.7	66.2	69.6	48.1	58.8	103	28	45	48	84	55	.303	.343	16.59	1.18	2.3	2.8	3.3

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

RED WING, MINN.

[H = 758 ft.; h_t = 63 ft.; h_r = 55 ft.; h_a = 71 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.8	W.	42	W.	2	1	1	11	4	2	3	27	9	4	10	7	14	13	7	13	0	0	30	0	31	0	0
February	10.5	W.	47	W.	1	2	0	11	5	4	2	23	5	4	8	11	9	8	6	8	0	0	24	0	28	0	3
March	8.0	W.	40	W.	1	5	1	15	3	4	6	18	6	4	13	8	10	11	8	7	0	2	16	0	25	2	0
April	12.3	E.	50	SW.	4	3	5	19	5	3	4	11	10	0	5	7	18	12	12	4	1	2	1	0	12	2	0
May	9.2	E.	56	W.	3	12	6	13	7	2	3	9	8	2	8	14	9	11	9	0	1	0	0	0	0	1	0
June	8.9	S.	50	W.	1	2	2	7	9	14	10	9	6	1	14	14	2	7	6	0	0	0	0	2	0	5	0
July	7.4	W.	42	S.	1	0	3	6	5	13	6	21	6	2	19	10	2	8	5	0	0	0	0	5	0	5	1
August	7.3	E.	35	S.	0	2	2	15	7	12	4	14	6	0	15	13	3	10	6	0	0	1	0	3	0	5	2
September																											
October																											
November																											
December																											
Year																											

ROCHESTER, N. Y.

[H = 523 ft.; h_t = 81 ft.; h_r = 81 ft.; h_a = 90 ft.]

January	9.8	SW.	40	SW.	1	0	3	5	4	5	31	7	7	0	1	5	25	24	12	21	0	0	25	0	31	0	0
February	10.9	SW.	38	SW.	0	1	3	1	7	2	29	7	6	0	2	6	20	20	15	15	0	0	17	0	28	0	0
March	10.2	SW.	36	SW.	0	4	8	4	9	1	19	10	7	0	9	5	17	21	12	13	1	0	8	0	25	1	0
April	10.0	SW.	48	SW.	3	0	10	6	10	6	11	8	9	0	6	13	11	13	12	4	1	0	2	0	10	2	0
May	8.2	SW.	48	SW.	1	0	7	6	6	2	20	9	10	2	7	7	17	16	10	0	0	0	0	0	0	2	0
June	6.8	SW.	24	SW.	0	0	7	1	8	5	24	5	9	1	15	4	11	8	7	0	0	0	0	2	0	2	0
July	7.5	SW.	32	SW.	0	4	4	1	2	5	20	9	16	1	15	8	8	12	7	0	0	0	0	2	0	7	1
August	6.6	SW.	48	NE.	1	1	10	2	3	5	21	6	11	3	11	8	9	9	7	0	0	0	0	3	0	4	0
September	7.4	SW.	30	SW.	0	2	4	7	8	5	25	3	4	2	12	12	6	14	9	0	0	0	0	0	0	2	0
October	7.5	SW.	39	SW.	0	0	1	5	12	10	25	3	4	2	11	9	11	13	6	2	0	1	0	0	2	0	0
November	9.1	SW.	33	SW.	0	0	2	4	8	11	27	3	4	1	7	8	15	17	13	8	0	0	3	0	12	1	0
December	9.7	SW.	38	SW.	0	0	5	2	3	8	30	8	6	0	2	8	21	27	17	19	0	0	15	0	27	0	0
Year	8.6	SW.	48	NE. SW.	6	12	64	44	80	65	282	78	93	12	101	93	171	194	127	82	2	1	70	7	135	21	1

ROSEBURG, OREG.

[H = 523 ft.; h_t = 57 ft.; h_r = 47 ft.; h_a = 67 ft.]

January	2.5	NW.	14	SW.	0	6	6	8	4	4	4	12	9	9	13	9	9	10	9	5	0	15	1	0	21	0	0
February	3.3	S.	24	SW.	0	1	1	3	11	11	8	5	5	11	0	6	22	17	15	4	0	0	0	0	7	0	0
March	4.2	SW.	24	SW.	0	4	1	4	11	5	17	7	7	6	3	7	21	18	13	0	a0	0	0	0	4	0	0
April	4.6	SW.	24	SW.	0	0	3	4	9	4	21	7	9	3	0	5	25	23	19	0	2	0	0	0	0	0	0
May	4.2	NW.	24	SW.	0	6	4	3	4	4	6	4	19	12	8	12	11	12	10	0	0	0	0	0	0	0	0
June	4.2	NW.	24	SW.	0	10	17	4	1	0	5	1	18	4	9	11	10	4	3	0	0	0	0	1	0	1	0
July	4.3	NW.	18	W.	0	9	19	1	1	1	3	3	21	4	19	8	4	2	1	0	0	0	0	2	0	0	0
August	3.8	NW.	18	NW.	0	15	13	3	0	0	3	2	18	8	22	8	1	1	0	0	1	0	0	1	0	1	0
September	3.1	NW.	17	SW.	0	4	3	6	5	3	10	3	20	6	8	8	14	15	13	0	0	7	0	0	0	0	0
October	2.5	Calm. NW.	18	SE.	0	3	8	4	7	6	4	8	11	11	9	13	9	14	11	0	0	13	0	0	0	1	0
November	3.0	Calm. S.	17	SE.	0	9	3	3	6	11	7	8	4	9	9	6	15	16	15	0	0	10	0	0	7	0	0
December	2.7	E.	21	S.	0	0	3	15	8	8	8	2	6	12	5	13	13	15	10	0	0	12	0	0	7	0	0
Year	3.5	NW.	24	SW.	0	67	81	58	67	57	96	62	147	95	105	106	154	147	119	9	3	57	1	4	46	3	0

SACRAMENTO CAL.

[H = 64 ft.; h_t = 61 ft.; h_r = 57 ft.; h_a = 70 ft.]

January	5.1	SE.	40	SE.	1	9	7	4	16	10	3	1	10	2	5	2	24	5	4	0	0	21	0	0	0	0	0
February	8.6	NW.	36	NW.	0	13	2	1	9	8	9	0	13	1	10	7	11	7	6	0	1	2	0	0	1	0	0
March	7.9	SE.	40	S.	1	5	1	0	19	15	14	2	5	1	7	10	14	13	9	0	1	0	0	0	0	0	0
April	8.5	SW.	33	SW.	0	4	1	0	10	14	21	0	8	2	18	7	5	4	4	0	0	0	0	0	0	0	0
May	8.1	SW.	36	NW.	0	9	0	2	11	7	17	2	13	1	23	6	2	4	3	0	0	0	0	0	0	1	0
June	7.6	SW.	29	SW.	0	1	1	0	20	10	20	1	5	2	30	0	0	0	0	0	0	0	0	5	0	0	0
July	6.9	S.	22	SW.	0	2	1	1	13	21	17	0	5	2	29	2	0	0	0	0	0	0	0	14	0	0	0
August	6.6	S.	21	SW.	0	2	0	0	7	39	11	1	2	0	31	0	0	0	0	0	0	0	0	16	0	0	0
September	7.3	S.	28	NW.	0	2	0	1	9	19	14	0	12	3	22	8	0	2	2	0	0	0	0	0	0	0	0
October	5.7	SE.	30	SW.	0	8	1	0	17	7	11	0	15	3	20	10	1	1	1	0	0	0	0	0	0	0	0
November	6.5	S.	45	N.	1	8	2	0	12	15	5	0	9	9	13	6	11	7	7	0	0	0	0	0	1	0	0
December	5.1	SE.	30	NW.	0	7	2	1	23	9	4	1	11	4	14	6	11	6	6	0	0	8	0	0	2	0	0
Year	7.0	S.	45	N.	3	70	18	10	166	174	146	8	108	30	222	64	79	49	42	0	2	31	0	35	4	1	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

ST. LOUIS, MO.

[λ = 38° 38′ N.; φ = 90° 12′ W.; gravity corr., −0.02.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.42	29.79	28.86	21.2	27.4	33.2	16.4	24.8	60	−2	16	19	78	68	.094	.109	.33	.10	5.5	4.4	4.7
February	29.51	30.27	28.90	28.0	33.2	38.5	23.1	30.8	58	−1	23	25	81	71	.133	.138	2.98	.91	5.4	4.2	4.6
March	29.42	29.91	28.68	38.0	47.6	52.6	35.1	43.8	82	10	31	37	76	68	.189	.239	5.10	1.97	5.8	5.1	5.5
April	29.29	29.67	28.50	51.2	59.8	64.6	48.5	56.6	88	33	44	46	76	62	.296	.330	10.84	2.86	6.4	6.2	6.5
May	29.31	29.62	28.87	59.2	67.5	72.5	55.4	64.0	89	43	51	52	76	60	.381	.408	5.42	3.26	4.8	4.4	4.6
June	29.37	29.71	28.94	71.1	78.2	83.8	66.6	75.2	93	58	64	63	79	62	.599	.568	3.49	.68	3.2	4.6	3.5
July	29.40	29.57	29.24	75.6	83.7	88.6	71.8	80.2	94	67	67	66	75	57	.664	.650	2.49	1.03	3.8	3.5	3.4
August	29.40	29.62	29.25	69.6	80.1	85.5	66.7	76.1	93	57	60	59	71	50	.515	.516	.65	.42	2.9	3.5	2.8
September	29.38	29.73	29.02	65.4	75.7	81.7	63.4	72.6	93	44	56	57	73	56	.437	.489	3.69	1.34	4.3	3.3	3.9
October	29.44	29.91	29.05	50.6	60.6	68.1	49.1	58.6	88	33	43	47	75	62	.294	.346	1.66	1.43	1.9	1.6	1.8
November	29.48	29.83	28.82	38.2	45.9	52.4	35.8	44.1	73	15	30	32	72	60	.179	.194	1.36	1.05	3.7	4.3	4.1
December	29.54	30.12	29.00	32.8	39.9	44.1	28.6	36.4	66	8	25	29	72	66	.149	.170	1.32	.58	5.8	2.7	5.2
Year	29.41	30.27	28.50	50.1	58.2	63.8	46.7	55.3	99	−2	42	44	75	62	.329	.348	39.33	3.26	4.5	4.0	4.2

SAINT PAUL, MINN.

[λ = 44° 58′ N.; φ = 93° 03′ W.; gravity corr., 0.]

January	29.10	29.53	28.47	0.1	6.8	11.3	−5.0	3.2	33	−23	−5	0	76	73	.034	.047	.73	.22	6.3	5.0	6.1
February	29.16	29.96	28.55	5.4	13.4	18.2	0	9.1	37	−26	0	6	76	71	.051	.062	1.87	1.12	7.0	5.4	6.1
March	29.10	29.74	28.41	17.4	27.5	31.6	14.3	23.0	51	−9	13	18	81	68	.090	.109	1.98	.89	6.4	4.5	5.8
April	28.96	29.34	28.06	34.6	41.9	46.8	31.1	39.0	72	19	30	31	83	66	.168	.173	5.30	1.63	7.8	6.7	7.3
May	29.01	29.39	28.61	49.2	59.4	63.0	44.7	53.8	79	32	39	38	70	49	.242	.238	2.66	.98	5.5	4.9	5.5
June	29.02	29.25	28.79	66.7	76.4	81.1	61.8	71.4	91	47	58	58	74	55	.489	.503	2.00	.81	3.6	4.5	4.5
July	29.06	29.35	28.69	67.4	79.8	84.2	62.6	73.4	98	56	58	58	72	48	.487	.491	1.68	1.08	3.5	2.7	3.9
August	29.09	29.36	28.81	61.2	73.8	80.1	57.8	69.0	97	43	53	54	74	52	.405	.430	2.40	1.50	3.2	3.2	3.7
September	29.04	29.49	28.52	52.9	65.6	73.3	50.4	61.8	94	31	45	47	77	52	.326	.349	2.70	1.06	3.6	2.0	2.9
October	29.02	29.61	28.55	42.7	50.8	58.7	39.3	49.0	82	18	36	38	78	63	.222	.243	1.49	1.05	5.5	3.9	5.3
November	29.07	29.48	28.44	24.9	33.0	38.9	21.0	30.0	74	−10	19	19	76	58	.112	.119	.81	.56	5.5	5.3	5.6
December	29.14	29.85	28.50	10.8	15.2	20.5	4.2	12.4	40	−16	6	10	81	76	.067	.074	2.35	1.27	6.2	4.8	6.2
Year	29.06	29.96	28.06	36.1	45.3	50.6	31.8	41.3	98	−26	29	31	76	61	.224	.236	25.95	1.63	5.3	4.4	5.2

ST. VINCENT, MINN.

[λ = 48° 56′ N.; φ = 97° 14′ W.; gravity corr., +0.01.]

January	29.19	29.62	28.68	−7.4	−5.1	6.8	−15.3	−4.2	38	−38	−12	−9	79	81	.030	.035	1.50	.60	5.1	4.5	5.2
February	29.21	29.99	28.79	−11.1	−2.8	6.6	−15.9	−4.6	30	−42	−15	−5	83	90	.025	.036	1.00	.40	5.0	3.9	4.8
March	29.20	29.92	28.60	3.1	13.5	22.5	−1.7	10.4	46	−26	1	12	91	91	.057	.082	.45	.20	5.5	3.5	4.2
April	29.08	29.44	28.31	23.9	30.9	36.2	19.5	27.8	50	−3	22	28	90	89	.119	.157	2.56	.98	6.7	6.8	7.2
May	29.06	29.41	28.15	45.3	57.0	63.0	39.5	51.2	83	31	38	41	78	58	.238	.269	2.00	1.80	3.7	2.9	4.1
June	28.95	29.19	28.60	60.5	69.4	77.2	53.8	65.5	96	42	55	59	85	70	.428	.512	5.20	1.90	4.5	2.9	3.3
July	29.04	29.34	28.72	60.8	70.8	78.6	54.3	66.4	90	42	57	62	89	74	.479	.584	2.16	.96	2.9	3.5	3.9
August	29.05	29.41	28.50	54.7	68.4	78.3	49.3	63.8	96	34	51	58	87	70	.385	.508	2.48	1.28	3.1	2.1	3.2
September	29.02	29.53	28.52	45.6	57.4	68.5	42.2	55.4	87	18	42	49	88	74	.301	.372	1.30	.44	3.6	3.9	4.9
October	29.06	29.69	28.56	31.3	39.6	51.6	28.6	40.1	64	10	30	36	93	86	.168	.217	.76	.48	6.6	4.3	6.6
November	29.09	29.50	28.11	15.0	19.8	30.0	9.7	19.8	58	−24	13	18	91	92	.098	.114	.52	.30	5.8	6.0	6.7
December	29.20	29.90	28.55	−7.6	−1.5	8.2	−13.6	−2.7	42	−34	−10	−4	87	90	.029	.041	.30	.10	3.4	3.5	4.0
Year	29.10	29.99	28.11	26.2	34.8	44.0	20.9	32.4	96	−42	23	29	87	80	.196	.244	20.23	1.90	4.7	4.0	4.8

SALT LAKE CITY, UTAH.

[λ = 40° 46′ N.; φ = 111° 54′ W.; gravity corr., − 0.01.]

January	25.76	26.07	25.08	24.8	30.9	35.7	19.5	27.6	48	4	20	24	81	74	.109	.126	.82	.48	4.2	3.9	4.3
February	25.67	25.99	25.23	25.7	31.3	35.9	21.1	28.5	49	5	21	23	81	69	.114	.120	1.64	.27	7.0	5.9	6.5
March	25.57	25.97	25.06	35.6	42.7	46.5	32.1	39.3	73	23	28	27	74	55	.151	.146	2.66	.73	7.6	5.3	6.3
April	25.55	25.84	25.17	40.9	51.0	55.0	36.8	45.9	72	26	27	24	59	38	.149	.133	2.72	.82	6.3	6.5	5.6
May	25.57	25.89	25.25	48.8	62.2	65.7	44.5	55.1	86	34	33	33	58	37	.193	.190	1.68	.80	3.8	4.5	3.7
June	25.58	25.81	25.18	58.9	78.2	80.0	54.1	67.0	92	42	35	38	43	25	.207	.238	.04	.04	.8	1.7	1.0
July	25.61	25.78	25.40	65.9	84.7	87.3	62.1	74.7	99	52	43	40	45	22	.288	.283	1.19	.77	2.1	2.3	2.2
August	25.64	25.79	25.52	64.2	81.4	85.5	61.0	73.2	96	52	44	40	49	26	.206	.261	.71	.34	2.8	4.0	3.5
September	25.57	25.83	25.29	54.7	69.9	75.2	50.7	63.0	86	33	34	31	47	27	.198	.182	1.30	.80	1.4	3.2	2.5
October	25.69	25.97	25.35	46.2	55.1	62.2	41.9	52.0	77	30	30	33	56	44	.171	.190	1.02	.37	4.7	3.8	3.9
November	25.73	26.08	25.35	35.1	40.7	47.6	31.1	39.4	64	13	26	27	70	58	.145	.150	1.18	.62	4.9	6.1	5.4
December	25.78	26.25	25.42	34.3	37.4	42.6	30.0	36.3	57	18	27	28	75	69	.149	.154	2.87	.87	6.4	5.9	6.2
Year	25.64	26.25	25.06	44.6	55.5	59.9	40.4	50.2	99	4	31	31	62	45	.181	.179	17.35	.87	4.3	4.4	4.3

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued

ST. LOUIS, MO.

[H = 571 ft.; h_t = 110 ft.; h_r = 100 ft.; h_a = 210 ft.]

Month.	Wind.														Number of days.												
	By self-registers.				Number of winds, 8 a. m. and 8 p. m.													Precipitation.					Maximum temp.		Minimum temperature below 32°.	Electricity.	
	Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.		Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	13.0	NW.	40	NW.	1	3	4	4	7	9	3	11	21	0	14	8	9	7	3	4	0	0	13	0	29	0	0
February	11.5	NW.	48	W.	2	4	6	5	9	6	3	8	13	2	14	4	10	9	7	5	0	0	7	0	22	3	0
March	14.4	SW.	44	SW.	2	7	8	4	9	8	11	6	9	0	8	13	10	7	6	2	0	0	2	0	13	2	0
April	13.8	SE.	54	SW.	4	7	8	8	12	7	6	6	6	0	5	10	15	15	14	0	1	0	0	0	0	9	0
May	12.2	SE.	50	SW.	3	8	5	7	11	8	9	8	5	1	11	12	8	8	7	0	0	0	0	0	0	5	0
June	9.1	S.	50	NW.	1	4	8	6	10	11	7	0	10	4	15	11	4	13	12	0	0	0	0	2	0	10	0
July	9.7	S.	50	NW.	2	6	6	1	4	12	16	8	9	0	16	12	3	10	5	0	0	0	0	12	0	8	0
August	7.9	N.	35	NW.	0	17	10	3	9	10	1	3	7	2	20	9	2	5	3	0	0	0	0	6	0	1	0
September	10.2	SW.	33	S.	0	10	7	4	9	14	8	2	4	2	16	7	7	9	8	0	0	0	0	10	0	2	0
October	12.1	S.	36	W.	0	2	1	2	19	17	3	8	10	0	24	4	3	5	5	0	0	0	0	0	0	1	0
November	11.0	SE.	36	NW.	0	4	2	4	12	10	8	8	10	2	16	5	9	4	4	0	0	0	2	0	10	0	0
December	14.0	S.	42	W.	1	7	1	6	12	11	9	8	8	0	11	9	11	7	6	1	0	0	7	0	21	0	0
Year	11.6	S.	54	SW.	16	79	66	54	123	123	84	76	112	13	170	104	91	99	80	12	1	0	31	30	95	41	0

SAINT PAUL, MINN.

[H = 850 ft.; h_t = 114 ft.; h_r = 108 ft.; h_a = 124 ft.]

January	7.7	NW.	36	NW.	0	0	2	6	9	2	11	13	16	3	9	9	13	13	7	13	0	0	30	0	31	0	0
February	9.0	SE.	35	NW.	0	0	2	2	15	2	10	16	9	0	7	9	12	10	6	10	0	0	25	0	28	0	1
March	7.5	NW.	27	NW.	0	2	10	4	10	3	10	8	14	1	12	3	16	12	8	8	0	1	16	0	26	2	0
April	10.2	NW.	31	NW.	0	0	12	2	14	1	9	8	13	1	4	9	17	11	9	4	1	1	2	0	17	2	0
May	7.5	NW.	38	NE.	0	4	12	6	8	1	9	7	14	1	11	9	11	11	7	1	1	0	0	0	0	2	0
June	7.7	SE.	34	SE.	0	0	3	1	25	9	6	10	6	0	13	8	9	6	5	0	1	0	0	2	0	3	0
July	6.3	SE.	26	W.	0	2	2	0	16	5	17	5	11	4	16	11	4	8	4	0	0	0	0	7	0	4	2
August	6.7	SE.	34	SW.	0	2	3	3	23	6	7	5	10	3	19	7	5	8	5	0	0	0	0	3	0	6	3
September	7.8	SE.	36	NW.	0	1	6	7	21	2	6	6	10	1	20	8	2	5	5	0	1	0	0	3	3	3	0
October	8.5	SE.	38	NW.	0	2	5	3	20	3	13	8	8	0	10	11	10	11	5	0	0	2	0	0	6	1	0
November	8.5	SE.	29	NW.	0	1	1	4	17	1	11	14	10	1	8	12	10	6	5	4	0	1	12	0	23	0	0
December	7.7	SE.	42	NW.	1	5	4	3	12	3	8	10	16	1	8	8	15	12	6	11	0	0	22	0	31	0	0
Year	7.9	SE.	42	NW.	1	19	62	41	190	38	117	110	137	16	137	104	124	113	72	51	4	5	107	15	165	23	6

ST. VINCENT, MINN.

[H = 804 ft.; h_t = 16 ft.; h_r = 4 ft.; h_a = 31 ft.]

January	12.1	N.	48	NW.	3	26	2	1	7	10	3	6	7	0	12	6	13	7	7	7	0	0	27	0	31	0	0
February	10.5	W.	34	NW.	0	10	2	5	6	5	6	14	8	0	14	5	9	5	5	5	0	0	28	0	28	0	2
March	11.0	NW.	42	N.	2	10	3	1	8	14	5	6	15	0	18	4	9	4	2	2	0	0	23	0	31	0	0
April	13.5	N.	50	N.	3	14	3	11	12	8	0	3	9	0	6	5	19	8	8	7	0	0	6	0	28	0	0
May	12.1	E.	72	S.	5	14	1	16	10	8	1	3	9	0	14	7	10	4	4	0	0	0	0	0	2	1	0
June	9.8	N.	36	NW.	0	12	4	6	11	7	0	11	9	0	17	7	6	16	15	0	0	0	0	3	0	8	0
July	8.9	NW.	36	W.	0	9	2	6	8	11	5	5	16	0	17	5	9	9	9	0	0	0	0	1	0	4	0
August	10.0	SE.	34	SW.	0	7	2	9	13	10	2	9	10	0	20	8	3	5	5	0	0	0	0	3	0	3	7
September	10.9	W.	30	SE.	0	8	0	9	13	8	0	14	8	0	13	7	10	7	7	1	0	0	0	0	7	2	3
October	10.6	NW.	36	NW.	0	12	3	5	7	8	4	9	14	0	7	10	14	6	5	0	0	0	2	0	22	0	0
November	10.0	N.	31	E.	0	17	3	7	6	6	4	7	10	0	5	10	15	7	5	7	0	0	17	0	28	0	0
December	9.3	N.	38	N.	0	30	0	8	3	13	1	4	3	0	17	5	9	3	3	3	0	0	29	0	31	0	0
Year	10.7	N.	72	S.	13	169	25	84	104	108	31	91	118	0	160	79	126	81	75	32	0	0	132	7	208	18	12

SALT LAKE CITY, UTAH.

[H = 4,345 ft.; h_t = 83 ft.; h_r = 75 ft.; h_a = 90 ft.]

January	5.0	SE.	36	SW.	0	3	0	6	19	4	2	12	14	2	17	7	7	3	3	3	0	2	13	0	30	0	0
February	5.7	SE.	37	NW.	0	3	4	3	8	5	5	9	14	0	8	5	15	17	11	17	1	0	8	0	26	1	0
March	6.5	SE.	34	SW.	0	9	1	9	10	7	4	10	10	2	8	8	15	13	12	12	0	0	0	0	16	1	0
April	8.0	SE.	60	SW.	2	4	4	4	13	7	7	7	14	0	6	15	9	12	8	6	1	0	0	0	10	2	0
May	7.7	NW.	51	NW.	1	9	4	6	9	6	4	10	14	0	15	9	7	9	6	0	4	0	0	0	0	0	0
June	7.2	NW.	35	S.	0	10	4	7	17	3	1	4	14	0	28	2	0	1	1	0	0	0	0	2	0	0	0
July	6.1	SE.	30	SW.	0	2	9	11	13	4	2	3	17	1	21	8	2	2	2	0	2	0	0	10	0	4	1
August	5.6	SE.	38	NE.	0	8	4	12	18	5	2	6	11	1	16	12	3	7	4	0	0	0	0	8	0	1	0
September	6.9	SE.	36	NW.	0	10	1	5	19	0	1	12	11	1	22	5	3	3	3	1	0	0	0	0	0	2	0
October	5.2	SE.	28	NW.	0	5	4	10	13	0	0	9	14	7	14	11	6	7	5	0	0	0	0	0	2	1	0
November	5.2	NW.	35	NW.	0	4	1	9	12	6	2	10	8	8	10	9	11	10	9	2	1	0	0	0	16	0	0
December	4.4	SE.	42	NW.	1	2	4	6	14	3	3	5	14	11	6	12	13	12	9	6	0	0	0	0	20	0	0
Year	6.1	SE.	60	SW.	4	64	40	93	165	50	33	97	155	33	171	103	91	96	73	47	9	2	21	20	120	12	1

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

SAN ANTONIO, TEX.

[λ = 29° 27′ N.; φ = 98° 28′ W.; gravity corr., — 0.04.]

Month.	Pressure.			Temperature.							Moisture.									
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor Pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.44	29.75	29.15	43.7	57.7	64.4	41.7	53.0	78	26	32	36	64	47	.205	.238	.11	.10	4.0	3.2	3.7
February	29.40	29.90	29.02	47.8	59.0	65.6	45.5	55.6	84	26	35	42	62	54	.227	.310	1.11	.70	6.2	5.5	6.5
March	29.37	29.86	28.89	53.0	68.5	73.9	50.6	62.2	86	35	38	44	58	43	.256	.311	2.14	1.76	3.7	3.0	3.7
April	29.20	29.50	28.87	66.6	78.6	85.3	63.3	74.3	97	46	62	61	86	58	.588	.577	2.18	1.00	7.8	4.6	5.4
May	29.21	29.42	28.93	69.0	79.3	84.4	66.0	75.2	95	51	61	63	76	59	.553	.584	3.36	2.10	7.5	3.8	4.9
June	29.23	29.50	28.88	74.8	85.4	90.8	71.1	81.0	97	65	66	65	76	52	.651	.677	1.90	1.23	5.7	3.2	4.1
July	29.31	29.44	29.18	77.7	90.2	96.0	74.4	85.2	99	72	68	64	74	44	.694	.609	.96	.96	5.1	3.4	3.9
August	29.26	29.47	29.12	76.1	88.3	94.9	72.7	83.8	102	59	67	64	73	47	.682	.613	.92	.30	3.6	3.8	3.9
September	29.27	29.49	28.97	73.1	87.5	93.6	70.0	81.8	103	61	64	62	73	45	.600	.574	.10	.09	4.5	2.7	3.6
October	29.39	29.66	28.97	59.5	77.9	85.2	56.9	71.0	97	45	44	47	58	34	.320	.339	.08	.08	1.8	1.0	1.2
November	29.40	29.79	29.14	50.1	63.0	69.8	47.9	58.8	85	33	42	44	74	52	.276	.296	4.62	2.32	4.2	2.5	3.9
December	29.51	29.80	29.10	50.7	62.3	68.6	48.9	58.8	83	29	40	42	68	49	.286	.295	.76	.31	4.6	3.5	4.4
Year	29.33	29.90	28.87	61.8	74.8	81.0	59.1	70.1	103	26	52	53	70	49	.443	.448	18.24	2.32	4.9	3.4	4.1

SAN DIEGO, CAL.

[λ = 32° 43′ N.; φ = 117° 10′ W.; gravity corr., — 0.03.]

January	29.94	30.10	29.77	50.1	60.6	68.8	45.9	57.4	80	38	37	46	65	66	.234	.331	.78	.45	1.9	4.0	3.7
February	29.97	30.15	29.72	49.4	59.1	63.3	45.6	54.4	75	40	41	45	75	63	.205	.307	.47	.43	2.7	5.1	4.3
March	29.95	30.21	29.64	51.0	58.0	61.3	47.1	54.2	75	40	46	49	84	73	.314	.350	5.50	2.00	5.1	5.7	5.8
April	29.94	30.10	29.81	52.7	62.1	65.2	49.8	57.5	78	43	46	48	79	62	.315	.343	.22	.22	5.6	2.4	3.2
May	29.86	29.99	29.67	57.0	64.0	67.9	54.1	61.0	88	49	51	53	81	70	.375	.410	.39	.22	7.1	3.4	3.5
June	29.81	29.95	29.65	59.8	67.4	69.7	57.2	63.4	75	53	56	58	88	71	.452	.474	T	T	8.3	3.1	3.0
July	29.81	29.93	29.65	63.8	70.9	73.5	61.2	67.4	79	57	60	60	87	70	.513	.529	T	T	8.7	1.5	2.8
August	29.79	29.90	29.70	66.6	72.9	75.8	64.1	70.0	81	59	62	62	86	70	.557	.567	0	0	7.4	1.0	2.1
September	29.80	29.91	29.70	60.8	67.0	70.5	58.6	64.6	77	53	56	58	85	74	.456	.485	0	0	8.1	1.9	2.5
October	29.91	30.08	29.75	56.8	64.2	70.9	54.5	62.7	88	50	48	54	76	71	.347	.420	.11	.11	4.8	1.9	2.6
November	29.99	30.15	29.64	52.6	58.9	65.5	49.7	57.6	83	40	43	48	76	72	.298	.346	.91	.81	5.2	1.7	2.9
December	30.02	30.22	29.82	51.6	59.5	66.3	48.6	57.4	82	38	44	50	76	73	.287	.369	1.91	.74	4.3	3.5	3.6
Year	29.90	30.22	29.64	56.0	63.7	68.2	53.0	60.6	88	38	49	53	80	70	.368	.411	10.29	2.00	5.8	2.9	3.3

SANDUSKY, OHIO.

[λ = 41° 25′ N.; φ = 82° 40′ W.; gravity corr., — 0.01.]

January	29.28	29.66	28.62	15.0	18.7	22.6	10.9	16.8	49	—9	11	15	85	85	.079	.090	1.94	.74	8.2	8.4	9.4
February	29.44	30.22	28.74	22.9	26.7	33.4	18.8	26.1	49	—2	18	22	82	80	.109	.122	3.12	.88	8.0	5.6	8.0
March	29.36	29.85	28.86	32.8	36.9	42.6	28.3	35.4	73	10	25	28	73	70	.144	.164	1.66	.60	6.0	6.0	7.4
April	29.29	29.61	28.56	44.3	47.4	54.0	39.6	46.8	82	29	36	38	75	71	.224	.237	4.95	.85	7.4	7.4	8.1
May	29.24	29.62	28.73	54.2	57.0	63.0	48.4	55.7	84	41	45	47	74	69	.311	.325	2.96	.60	6.4	5.8	6.8
June	29.33	29.60	28.97	63.4	72.5	78.7	62.6	70.6	91	54	59	60	73	67	.503	.534	.91	.26	4.5	4.5	4.7
July	29.33	29.53	29.13	71.6	75.6	83.1	66.0	74.6	94	58	60	61	68	63	.530	.554	3.45	1.42	4.0	4.5	4.4
August	29.34	29.56	29.09	67.7	71.9	79.1	63.1	71.1	94	52	56	58	68	63	.461	.495	1.13	.53	4.3	2.3	3.3
September	29.35	29.64	29.12	60.8	65.9	72.8	57.2	65.0	90	38	50	51	69	61	.380	.398	.93	.36	4.7	3.3	6.0
October	29.38	29.80	28.56	49.2	54.5	61.2	46.4	53.8	84	26	41	46	74	73	.270	.324	3.27	1.38	5.2	3.5	5.2
November	29.38	29.89	28.77	36.0	40.8	46.1	33.3	39.7	67	14	29	32	75	71	.163	.190	2.16	93	6.6	5.1	6.8
December	29.42	30.07	28.83	28.4	32.5	37.6	23.8	30.7	65	7	23	26	81	77	.134	.151	2.52	75	7.8	6.4	8.4
Year	29.34	30.22	28.56	45.9	50.0	56.2	41.5	48.9	94	—9	38	40	75	71	.276	.299	29.00	1.42	6.1	5.2	6.5

SAN FRANCISCO, CAL.

[λ = 37° 48′ N.; φ = 122° 26′ W.; gravity corr., — 0.02]

January	29.93	30.17	29.25	44.1	49.7	53.0	41.7	47.4	60	36	40	41	87	74	.253	.262	3.05	1.39	3.8	3.3	4.2
February	29.98	30.22	29.68	47.1	53.5	56.2	44.4	50.3	69	39	40	40	77	62	.253	.249	2.75	1.06	3.3	4.4	4.7
March	29.86	30.27	29.48	48.4	53.6	56.2	46.2	51.2	78	40	44	46	86	77	.294	.311	4.08	.98	5.7	6.0	6.6
April	29.97	30.15	29.53	48.9	53.7	57.8	47.0	52.4	72	40	44	46	83	76	.288	.308	1.09	.71	4.6	4.0	4.3
May	29.86	30.17	29.66	51.2	58.0	62.0	49.5	55.8	74	46	46	46	84	67	.315	.314	.15	.14	5.5	3.0	3.9
June	29.83	30.00	29.56	50.8	58.7	63.7	49.3	56.5	90	47	46	48	85	67	.310	.330	.93	.93	2.2	.5	.6
July	29.78	29.92	29.67	51.5	58.1	63.3	50.0	56.6	74	47	48	50	89	74	.336	.357	.02	.02	2.9	1.0	2.0
August	29.76	29.89	29.63	52.3	57.1	62.2	50.9	56.6	72	47	50	51	92	81	.360	.378	.00	.00	3.8	2.6	4.5
September	29.79	29.94	29.63	55.8	60.7	64.7	53.9	59.3	72	50	51	51	85	72	.382	.378	.21	.12	4.4	2.8	3.5
October	29.91	30.10	29.64	53.3	58.3	63.9	51.2	57.6	79	47	48	48	84	70	.339	.335	.16	.10	2.7	2.8	3.3
November	30.00	30.16	29.75	52.2	56.8	61.3	49.8	55.6	74	44	48	49	86	78	.327	.353	4.16	1.69	4.8	4.0	5.5
December	30.03	30.27	29.62	50.3	54.5	56.9	48.0	52.4	72	37	46	46	86	76	.315	.315	2.25	.97	4.2	5.0	5.5
Year	29.89	30.27	29.25	50.5	56.1	60.1	48.5	54.3	90	36	46	47	85	73	.315	.324	17.91	1.69	3.9	3.2	4.0

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued

SAN ANTONIO, TEX.

[H = 679 ft.; h_t = 66 ft.; h_r = 60 ft.; h_a = 75 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
January	*Miles.* 6.1	Calm / E.	*Mi.* 24	NW.	0	7	8	10	5	2	8	4	7	11	18	4	9	3	1	0	0	1	0	0	4	0	0
February	7.9	N.	30	N.	0	12	12	10	5	4	3	1	2	7	7	7	14	10	5	0	0	3	0	0	2	1	0
March	8.3	SE.	37	NW.	0	6	12	11	15	3	5	3	2	5	14	13	4	8	4	0	0	3	0	0	0	2	0
April	9.2	SE.	48	W.	1	4	7	11	27	6	3	0	1	1	6	18	6	5	4	0	0	0	0	7	0	3	0
May	7.8	SE.	24	E.	0	10	3	11	26	4	4	0	0	4	10	13	8	5	3	0	0	0	0	7	0	5	0
June	7.4	SE.	35	NE.	0	2	7	16	19	6	4	0	0	6	9	20	1	9	7	0	0	1	0	18	0	4	0
July	7.4	SE.	24	E.	0	1	0	3	31	15	3	2	0	7	13	17	1	1	1	0	0	0	0	31	0	1	0
August	5.8	SE.	24	SW.	0	2	4	14	25	4	0	0	0	13	11	18	2	7	6	0	0	0	0	28	0	1	0
September	6.5	E.	24	S.	0	1	10	20	19	4	1	0	0	5	11	17	2	2	1	0	0	0	0	26	0	0	0
October	6.0	E.	24	N.	0	9	13	15	11	2	4	2	1	5	27	4	0	2	1	0	0	0	0	7	0	0	0
November	7.1	N.	32	N.	0	15	9	9	7	3	5	6	3	3	14	9	7	8	8	0	0	4	0	0	0	1	0
December	7.3	SE.	35	NW.	0	11	8	6	12	7	5	5	5	3	14	7	10	8	5	0	0	4	0	0	2	1	0
Year	7.2	SE.	48	W.	1	80	93	136	202	60	45	23	21	70	154	147	64	68	46	0	0	16	0	124	8	19	0

SAN DIEGO, CAL.

[H = 93 ft.; h_t = 73 ft.; h_r = 66 ft.; h_a = 85 ft.]

January	4.0	NW.	17	S.	0	8	7	3	2	3	5	7	18	9	19	6	6	3	3	0	0	2	0	0	0	0	0
February	5.1	NW.	22	NW.	0	2	5	0	2	3	4	15	18	7	14	10	4	4	2	0	0	1	0	0	0	0	0
March	6.2	W.	24	S.	0	4	2	1	3	5	11	17	11	8	8	11	12	13	10	0	2	1	0	0	0	0	0
April	5.3	W.	20	NW.	0	4	1	1	0	0	10	25	12	7	18	8	4	1	1	0	0	0	0	0	0	0	0
May	5.8	W.	24	S.	0	6	2	1	0	7	10	20	12	4	22	3	6	4	3	0	0	0	0	0	0	1	0
June	4.9	W.	14	W.	0	1	0	0	1	5	15	23	6	9	17	9	4	0	0	0	0	1	0	0	0	0	0
July	5.1	W.	17	SW.	0	2	0	0	0	1	16	25	7	11	24	6	1	0	0	0	0	0	0	0	0	1	0
August	5.0	W.	16	W.	0	2	0	0	0	2	4	38	5	11	28	2	1	0	0	0	0	2	0	0	0	0	0
September	5.1	W.	15	SW.	0	2	0	0	0	4	15	21	12	6	22	7	1	0	0	0	0	0	0	0	0	0	0
October	4.6	W.	19	S.	0	6	8	6	3	1	11	12	8	7	22	7	2	1	1	0	0	3	0	0	0	0	0
November	4.5	W.	25	SW.	0	10	10	2	3	0	3	9	15	8	18	11	1	3	3	0	0	1	0	0	0	0	0
December	4.5	NE.	27	SW.	0	8	10	3	3	2	6	8	14	8	19	5	7	6	6	0	0	1	0	0	0	0	0
Year	5.0	W.	34	S.	0	55	45	17	17	33	110	220	138	95	231	85	49	35	29	0	2	12	0	0	0	2	0

SANDUSKY, OHIO.

[H = 629 ft.; h_t = 62 ft.; h_r = 55 ft.; h_a = 74 ft.]

January	9.0	SW.	36	NW.	0	1	0	3	6	5	20	15	12	0	0	2	29	17	8	16	0	0	25	0	31	0	0
February	11.1	W.	47	NW.	1	6	4	8	3	5	4	16	10	0	1	7	20	17	12	12	0	0	10	0	28	0	0
March	10.2	W.	36	NW.	0	3	8	9	3	10	9	12	8	0	3	10	18	13	8	4	0	2	6	0	20	0	0
April	11.9	E.	36	NW.	0	0	6	16	8	5	9	9	7	0	2	10	18	18	16	2	1	0	0	0	3	3	0
May	9.4	E.	36	NW.	0	4	4	14	3	6	11	12	8	0	5	12	14	11	10	0	0	0	0	0	0	5	0
June	7.8	SW.	33	NW.	0	2	7	12	6	7	14	6	6	0	12	13	5	9	6	0	0	1	0	1	0	8	0
July	7.6	E.	45	NW.	1	3	7	13	4	9	11	9	6	0	10	18	3	8	7	0	0	0	0	6	0	8	0
August	7.7	E.	36	NE.	0	9	11	13	9	7	5	5	2	1	18	11	2	6	6	0	0	0	0	4	0	0	0
September	9.0	SW.	38	NW.	0	4	6	9	9	6	10	7	9	0	3	18	9	7	3	0	0	0	0	0	0	3	0
October	8.6	E.	38	W.	0	3	1	13	7	10	10	11	6	1	11	11	9	8	6	0	0	2	0	0	2	0	0
November	9.1	W.	30	W.	0	1	2	3	7	10	13	18	6	0	4	10	16	9	8	2	0	2	4	0	11	1	0
December	10.7	SW.	36	NW.	0	2	3	2	2	7	23	15	8	0	1	8	22	15	12	7	0	0	12	0	24	0	0
Year	9.3	SW.	47	NW.	2	38	59	115	67	87	139	135	88	2	70	130	165	138	102	43	1	7	57	11	117	28	0

SAN FRANCISCO, CAL.

[H = 153 ft.; h_t = 161 ft.; h_r = 154 ft.; h_a = 167 ft.]

January	10.0	NW.	40	S.	1	5	1	2	4	2	5	13	30	0	19	3	9	6	6	0	0	1	0	0	0	0	0
February	8.4	SW.	38	SW.	0	3	2	2	16	6	14	11	6	2	11	10	7	9	8	0	0	2	0	0	0	0	0
March	10.1	SW.	43	SE.	2	2	2	8	10	10	20	4	5	1	8	7	16	16	13	0	1	1	0	0	0	1	0
April	12.4	SW.	42	SE.	1	0	1	1	5	7	35	9	1	1	12	13	5	7	5	0	0	0	0	0	0	0	0
May	12.2	SW.	38	SW.	0	0	0	0	2	11	41	3	4	1	21	6	4	2	2	0	0	0	0	0	0	0	0
June	15.3	SW.	40	SW.	1	0	0	0	0	6	53	1	0	0	29	1	0	1	0	0	0	0	0	0	0	0	0
July	15.3	SW.	37	SW.	0	0	0	0	0	16	45	1	0	0	25	5	1	1	0	0	0	0	0	0	0	0	0
August	14.5	SW.	42	SW.	2	0	0	0	0	21	40	0	0	1	11	15	5	0	0	0	0	0	0	0	0	0	0
September	12.6	SW.	35	SW.	0	0	0	1	4	13	37	5	0	0	16	11	3	3	2	0	0	0	0	0	0	0	0
October	9.3	SW.	32	SW.	0	2	1	2	5	4	38	8	2	2	18	10	3	3	2	0	0	0	0	0	0	0	0
November	7.7	SW.	47	NW.	1	3	2	2	11	6	25	7	3	1	11	7	12	13	8	0	0	2	0	0	0	0	0
December	6.0	NW.	25	S.	0	6	6	4	5	5	9	10	13	4	12	4	15	8	6	0	0	2	0	0	0	0	0
Year	11.2	SW.	47	NW.	8	21	15	22	56	107	362	70	64	13	193	92	80	69	52	0	1	8	0	0	0	1	0

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

SANTA FE, N. MEX.

[λ=35° 41′ N.; φ=105° 57′ W.; gravity corr., −0.02.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	23.25	23.49	22.99	25.2	35.3	45.6	23.5	33.6	52	13	9	11	50	36	.066	.074	.26	.12	2.8	2.8	2.3
February	23.18	23.45	22.73	27.0	37.8	43.0	24.6	33.8	52	15	13	10	56	35	.081	.078	.76	.24	4.3	4.1	3.8
March	23.19	23.55	22.84	29.6	43.9	48.5	28.1	38.3	71	18	13	11	49	28	.080	.083	.78	.42	3.5	3.6	3.2
April	23.16	23.37	22.90	37.7	56.3	60.1	35.5	47.8	70	19	5	−15	27	7	.058	.028	.01	.01	1.6	2.8	2.6
May	23.22	23.48	22.99	47.2	63.4	67.5	43.1	55.3	77	31	18	−2	37	16	.111	.067	.98	.70	2.1	3.1	3.0
June	23.31	23.47	23.07	59.5	77.0	81.2	55.7	68.4	87	44	23	1	26	7	.136	.062	.02	.02	.8	3.8	2.1
July	23.39	23.53	23.23	61.0	72.3	79.7	57.4	68.6	89	54	41	38	52	37	.272	.260	3.01	.91	4.1	6.6	5.0
August	23.37	23.50	23.22	57.9	69.9	75.8	55.8	65.8	85	50	47	43	69	42	.329	.288	5.12	2.02	3.9	4.8	4.6
September	23.33	23.53	22.96	51.6	64.8	70.1	49.5	59.8	79	42	36	32	60	37	.227	.204	3.00	1.70	3.0	3.8	3.7
October	23.34	23.54	23.09	40.2	53.2	60.8	38.5	49.6	70	30	20	21	45	29	.110	.113	.22	.16	1.3	1.8	1.5
November	23.27	23.47	23.03	30.4	40.2	48.2	28.5	38.4	59	19	11	14	46	34	.074	.082	.29	.21	1.7	1.9	2.0
December	23.31	23.58	23.01	26.8	34.7	42.8	24.6	33.7	53	5	12	13	52	39	.076	.080	.49	.22	2.3	2.3	3.0
Year	23.28	23.58	22.73	41.2	54.1	60.1	38.7	49.4	89	5	21	15	47	29	.135	.118	14.94	2.02	2.6	3.4	3.1

SAULT DE STE. MARIE, MICH.

[λ=46° 28′ N.; φ=84° 22′ W.; gravity corr., 0.]

January	29.18	29.70	28.60	3.4	7.5	13.1	−1.1	6.0	31	−26	1	5	90	86	.048	.054	1.79	.36	8.6	7.6	8.5
February	29.32	30.12	28.60	5.8	11.9	18.4	−0.2	9.1	36	−23	1	6	82	77	.051	.061	1.77	.38	7.7	5.6	7.6
March	29.28	29.86	28.49	16.1	23.6	29.7	11.7	20.7	48	−5	12	17	82	74	079	.098	1.77	.97	7.2	4.7	6.6
April	29.22	29.80	28.55	30.7	33.9	40.6	25.5	33.0	62	9	26	26	81	74	.141	.141	3.36	1.15	6.6	7.3	7.8
May	29.19	29.63	28.73	43.7	46.8	56.3	37.3	46.8	77	30	35	36	73	70	.208	.216	3.71	1.27	6.1	6.8	7.5
June	29.24	29.46	28.82	59.3	64.7	74.6	49.9	62.2	92	36	54	55	82	73	.418	.446	2.15	.65	5.5	4.6	6.0
July	29.23	29.51	28.93	59.1	63.9	73.1	53.0	63.0	84	44	56	57	89	78	.450	.470	4.32	1.02	6.7	4.7	7.1
August	29.29	29.55	29.02	58.5	63.2	72.8	52.5	62.6	90	42	55	56	87	79	.432	.462	1.40	1.08	4.7	5.1	6.1
September	29.27	29.65	28.93	50.2	52.3	61.0	46.0	53.5	76	32	46	48	88	82	.326	.341	4.68	.92	6.6	6.5	7.3
October	29.24	29.72	28.45	42.4	45.5	51.5	39.1	45.3	68	22	39	41	88	85	.248	.267	4.76	1.42	7.0	6.2	8.0
November	29.19	29.76	28.53	29.0	32.4	37.6	27.2	32.4	62	10	27	29	90	88	.155	.165	5.09	.87	7.8	8.1	8.6
December	29.27	29.94	28.62	11.7	16.6	21.1	7.5	14.3	38	−14	10	15	94	91	.747	.910	4.84	1.10	8.5	7.3	8.7
Year	29.24	30.12	28.45	34.2	38.6	45.8	29.0	37.4	92	−26	30	33	86	80	.275	.303	39.64	1.42	6.9	6.2	7.5

SAVANNAH, GA.

[λ=32° 5′ N.; φ=81° 5′ W.; gravity corr., −0.03.]

January	30.00	30.37	29.51	38.6	44.2	53.2	35.4	44.3	71	18	31	30	75	59	.197	.188	2.21	1.77	4.5	3.2	4.0
February	30.08	30.47	29.68	51.1	56.5	65.9	47.8	56.8	81	34	45	48	84	77	.326	.359	4.73	2.67	5.5	4.2	5.6
March	30.02	30.31	29.52	52.3	56.7	65.7	48.4	57.0	81	26	45	45	77	68	.323	.330	3.87	1.15	5.1	4.2	4.5
April	30.00	30.22	29.66	65.8	68.1	79.4	60.7	70.0	89	51	59	60	79	76	.510	.523	2.20	1.36	3.6	2.3	4.5
May	29.90	30.22	29.59	69.7	71.4	81.7	63.5	72.6	92	54	62	61	77	72	.570	.555	2.22	.57	4.8	4.6	5.0
June	29.92	30.14	29.50	77.0	77.1	86.9	70.2	78.6	96	63	71	70	82	80	.752	.739	6.50	2.22	5.2	5.9	5.6
July	29.95	30.13	29.82	80.3	79.7	92.6	73.5	83.0	100	69	74	73	80	81	.825	.811	4.63	1.62	4.3	5.4	4.4
August	29.86	30.02	29.01	76.8	76.8	87.1	71.5	79.3	92	67	73	73	87	88	.808	.812	12.59	5.61	6.8	6.1	6.6
September	29.96	30.11	29.78	73.9	76.0	86.3	69.9	78.1	97	59	69	70	84	84	.710	.752	8.29	4.35	4.3	2.5	4.6
October	29.95	30.32	29.10	63.2	67.1	76.6	59.9	68.2	85	41	58	59	84	77	.508	.527	6.91	3.99	3.6	2.7	3.4
November	30.04	30.45	29.72	53.2	57.8	66.1	49.6	57.8	80	31	48	52	82	80	.353	.405	2.31	.69	5.2	3.3	5.2
December	30.15	30.56	29.73	47.2	54.6	64.1	44.9	54.5	76	31	44	47	88	76	.305	.338	3.12	1.17	4.1	3.2	4.1
Year	29.99	30.56	29.01	62.4	65.5	75.5	57.9	66.7	100	18	57	57	82	76	.516	.528	61.58	5.61	4.8	4.0	4.8

SEATTLE, WASH.

[λ=47° 38′ N.; φ=122° 20′ W.; gravity corr., +0.01.]

January																					
February																					
March																					
April																					
May	29.90	30.27	29.49	47.3	58.5	61.6	46.2	53.9	76	40	44	45	89	63	.291	.298	4.26	1.08	8.2	6.8	7.4
June	29.93	30.10	29.56	50.4	61.7	64.9	49.2	57.0	88	45	45	46	82	57	.297	.307	1.54	.72	7.8	6.4	6.5
July	29.90	30.04	29.67	54.8	69.4	71.8	53.7	62.8	85	49	50	51	84	53	.362	.371	.48	.18	5.9	5.3	5.3
August	29.87	30.06	29.62	55.4	70.6	73.3	54.3	63.8	91	49	51	51	86	52	.377	.377	.33	.15	4.2	3.0	4.3
September	29.80	30.11	29.49	52.5	61.3	64.2	50.6	57.4	76	43	49	49	89	65	.351	.352	3.04	1.33	5.9	6.4	7.2
October	29.91	30.29	29.34	45.8	51.0	53.5	43.5	48.5	65	31	42	43	89	76	.276	.281	3.66	.69	6.6	7.4	7.6
November	29.91	30.42	29.14	40.5	43.9	46.8	37.1	42.0	56	30	37	39	89	84	.229	.242	8.16	1.54	5.9	7.4	7.3
December	29.96	30.39	29.36	42.7	44.7	46.9	39.8	43.4	57	28	40	42	91	91	.250	.272	4.92	1.05	5.7	7.6	7.1
Year																					

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

SANTA FE, N. MEX.

[H = 7,051 ft.; h_1 = 47 ft.; h_r = 39 ft.; h_a = 50 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.3	NE.	28	SW.	0	1	27	3	7	6	7	6	4	1	25	4	2	4	3	3	0	0	1	0	29	0	0
February	7.8	SW.	46	SW.	1	7	14	6	4	3	10	7	3	2	16	7	5	11	7	6	0	0	0	0	25	0	0
March	8.6	NW.	38	SW.	0	8	12	1	7	2	9	6	14	3	19	10	2	6	3	6	0	0	0	0	21	0	0
April	9.3	SW.	44	SW.	2	5	4	1	16	3	10	4	16	1	23	7	0	1	0	1	0	0	0	0	8	0	0
May	8.5	SW.	51	SW.	1	2	6	4	18	5	13	2	12	0	21	8	2	7	5	2	0	0	0	0	2	1	0
June	7.7	SW.	29	NE.	0	1	6	5	20	4	9	1	13	1	23	7	0	1	0	0	0	0	0	0	0	0	0
July	6.7	SW.	36	SW.	0	1	14	7	17	7	9	2	5	0	11	15	5	18	12	0	0	0	0	0	0	5	0
August	6.0	SE.	27	NE.	0	5	9	7	17	13	3	1	5	2	12	13	6	17	12	0	0	0	0	0	0	6	0
September	5.9	SE.	32	SE.	0	2	5	3	21	6	15	4	3	1	15	10	5	10	7	0	0	0	0	0	0	2	0
October	6.1	SE.	30	NE.	0	4	11	6	13	4	11	4	8	1	26	5	0	4	3	0	0	0	0	0	3	0	0
November	6.3	NE.	29	NW.	0	6	15	6	16	5	4	5	3	0	24	4	2	3	2	3	0	0	0	0	21	0	0
December	6.9	NE.	38	NW.	0	8	19	4	13	4	7	1	2	4	20	9	2	5	4	3	0	0	2	0	27	0	0
Year	7.3	SW.	51	SW.	4	50	142	53	169	62	107	43	88	16	235	99	31	87	58	24	0	0	3	0	136	14	0

SAULT DE STE. MARIE, MICH.

[H = 642 ft.; h_1 = 56 ft.; h_r = 48 ft.; h_a = 65 ft.]

January	7.9	SE.	42	NW.	1	3	10	10	20	1	3	4	11	0	2	3	26	17	14	17	0	0	31	0	31	0	0
February	10.0	SE.	41	NW.	1	2	5	3	17	3	2	5	17	2	3	8	17	16	12	16	0	0	25	0	28	0	0
March	11.0	NW.	36	SE.	0	1	8	4	18	1	6	1	20	3	4	12	15	12	8	9	0	2	17	0	29	1	3
April	12.1	SE.	60	SE.	3	0	9	6	19	0	5	5	16	0	4	5	21	12	10	8	0	1	3	0	26	1	1
May	8.7	NW.	36	NE.	0	2	5	5	17	0	4	2	20	1	2	11	18	11	10	1	2	0	0	0	5	2	0
June	7.3	SE.	35	SE.	0	0	1	6	22	3	7	4	15	2	10	6	14	10	8	0	0	0	0	1	0	7	0
July	7.1	NW.	25	NW.	0	1	1	3	17	0	9	9	21	1	4	12	15	17	14	0	0	0	0	0	0	11	1
August	6.4	NW.	24	SW.	0	4	3	4	16	2	5	5	15	8	7	10	14	7	7	0	0	1	0	0	0	5	7
September	9.2	SE.	40	NW.	1	4	4	4	22	4	2	2	16	2	3	10	17	15	13	0	2	1	0	0	0	10	5
October	10.4	SE.	50	NW.	2	3	3	5	30	0	2	0	17	2	1	7	23	14	11	2	0	2	1	0	5	3	0
November	10.0	SE.	34	NW.	0	1	2	4	25	0	8	3	16	1	1	6	23	19	17	15	0	2	9	0	18	0	2
December	8.8	SE.	37	E.	0	5	11	11	15	2	5	5	7	1	0	4	27	20	18	17	0	4	25	0	31	0	1
Year	9.1	SE.	60	SE.	8	26	62	65	238	16	58	45	197	23	41	94	230	170	142	85	4	13	111	1	173	40	20

SAVANNAH, GA.

[H = 98 ft.; h_1 = 63 ft.; h_r = 55 ft.; h_a = 86 ft.]

January	9.2	NW.	34	NW.	0	5	2	4	4	7	10	11	19	0	12	15	4	8	5	1	0	1	1	0	11	0	0
February	9.6	NE.	30	SW.	0	2	15	2	7	8	4	8	10	0	7	12	9	12	9	0	0	2	0	0	0	1	0
March	9.4	SE.	44	NW.	1	3	6	4	13	8	4	11	13	0	12	12	7	11	11	0	1	2	0	0	1	3	0
April	9.8	S.	32	S.	0	2	6	2	6	22	11	9	2	0	8	18	4	3	3	0	0	1	0	0	0	2	0
May	9.6	S.	34	W.	0	2	5	3	5	16	15	6	10	0	9	15	7	14	9	0	0	0	0	3	0	8	0
June	8.0	SE.	36	SE.	0	2	11	8	14	12	4	5	4	0	3	20	7	14	12	0	0	0	0	6	0	8	0
July	6.8	SW.	38	NW.	0	1	7	4	10	8	19	9	4	0	6	23	2	12	9	0	0	0	0	24	0	17	0
August	7.6	NE.	72	NE.	2	3	15	6	8	11	7	4	7	1	4	12	15	21	20	0	0	0	0	6	0	14	0
September	6.3	S.	26	NE.	0	4	11	3	13	18	9	1	0	1	9	12	9	8	8	0	0	0	0	7	0	3	0
October	9.4	NE.	40	NW.	2	6	22	5	10	3	2	5	9	0	15	12	4	6	5	0	0	2	0	0	0	1	0
November	8.2	NW.	32	NW.	0	11	8	2	8	3	9	3	15	1	8	16	6	8	4	0	0	2	0	0	1	1	0
December	8.2	NW.	30	S.	0	6	11	3	4	9	6	9	14	0	14	11	6	6	5	0	0	2	0	0	1	0	0
Year	8.5	S.	72	NE.	5	47	119	46	102	125	100	81	107	3	107	178	80	123	100	1	1	12	1	46	14	58	0

SEATTLE, WASH.

[H = 119 ft.; h_1 = 100 ft.; h_r = 94 ft.; h_a = 108 ft.]

January																											
February																											
March																											
April																											
May	6.1	S.	24	S.	0	6	4	12	11	14	5	7	1	2	5	7	19	20	15	0	1	1	0	0	0	0	0
June	6.2	SE.	26	S.	0	2	4	7	15	9	1	10	4	8	8	4	18	13	9	0	0	0	0	0	0	1	0
July	4.3	W.	16	N.	0	11	6	7	5	1	6	12	9	5	9	15	7	7	4	0	0	0	0	0	0	1	0
August	4.4	W.	18	SE.	0	8	4	5	8	3	1	16	11	6	14	11	6	4	3	0	0	3	0	1	0	1	0
September	4.7	SE.	24	SE.	0	7	3	6	17	4	5	9	4	5	4	10	16	13	10	0	0	7	0	0	0	0	0
October	6.4	SE.	34	SE.	0	8	5	8	16	12	0	3	7	3	3	8	20	14	14	1	1	7	0	0	1	0	0
November	6.5	SE.	26	SE.	0	13	6	7	19	7	2	1	5	0	2	13	15	16	15	1	0	3	0	0	6	0	0
December	7.3	S.	30	S.	0	3	2	10	11	30	1	3	1	1	5	7	19	22	16	2	0	2	0	0	2	0	0
Year																											

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

SHREVEPORT, LA.

[λ=32° 30′ N.; ϕ=93° 40′ W.; gravity corr.,—0.03.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.			
January	29.84	30.24	29.47	40.4	51.5	56.4	38.1	47.2	74	26	33	37	76	60	.208	.237	1.06	.94	2.6	2.6	3.1
February	29.84	30.43	29.43	45.6	54.9	59.8	42.8	51.3	75	30	38	41	76	61	.251	.274	1.53	.56	5.2	6.5	6.0
March	29.81	30.26	29.39	48.7	60.9	65.8	46.8	56.3	84	28	39	40	71	50	.263	.273	2.68	2.03	4.0	3.6	3.8
April	29.67	29.99	29.33	62.6	73.0	78.5	59.8	69.2	87	42	57	58	83	61	.495	.501	3.13	1.49	6.7	3.4	4.9
May	29.66	29.91	29.34	66.3	75.5	82.0	63.6	72.8	92	50	61	63	84	68	.558	.593	4.56	1.75	5.7	3.6	4.6
June	29.69	29.95	29.40	73.7	81.6	88.1	70.2	79.2	95	62	69	70	84	69	.704	.738	7.45	3.62	4.0	3.6	4.5
July	29.76	29.89	29.67	77.3	85.6	93.5	73.8	83.6	101	69	72	70	83	62	.770	.744	1.58	.75	1.6	2.4	3.1
August	29.70	29.85	29.60	73.0	82.3	90.9	70.5	80.7	96	61	69	68	86	63	.711	.690	1.63	.75	3.3	3.0	3.6
September	29.71	29.96	29.40	68.3	81.1	86.6	65.7	77.2	98	54	63	61	83	53	.580	.552	.56	.52	3.4	1.4	2.7
October	29.81	30.14	29.43	54.0	69.9	78.1	52.5	65.3	90	40	48	48	80	47	.355	.358	.63	.56	1.4	0.7	1.2
November	29.83	30.18	29.46	46.1	57.9	64.1	44.7	54.4	81	29	42	45	84	64	.277	.312	5.38	2.30	3.7	3.5	4.0
December	29.94	30.30	29.38	45.6	56.6	61.9	43.8	52.8	79	25	39	42	79	59	.262	.289	1.82	.67	2.8	2.5	3.5
Year	29.77	30.43	29.33	58.5	69.2	75.6	56.0	65.8	101	25	52	54	81	60	.453	.463	32.06	3.62	3.7	3.1	3.8

SIOUX CITY, IOWA.

[λ=42° 29′ N.; ϕ=96° 24′ W.; gravity corr.,—0.01.]

January	28.79	29.20	28.22	9.6	14.9	22.1	3.1	12.6	46	—11	6	9	82	78	.060	.072	.34	.18	5.1	5.4	5.6
February	28.84	29.56	28.38	9.1	18.1	25.2	5.3	15.2	45	—21	6	13	86	80	.063	.088	.77	.22	4.9	3.1	5.2
March	28.73	29.37	28.07	22.9	32.1	38.0	20.2	29.1	67	— 4	19	24	86	74	.116	.141	1.43	.73	5.9	5.8	6.4
April	28.62	29·01	27.77	38.0	48.7	54.7	34.5	44.6	82	21	30	31	75	54	.173	.176	3.56	1.68	5.5	6.0	6.5
May	28.66	29.01	28.22	50.5	62.7	67.9	46.1	57.0	87	30	41	40	72	48	.258	.262	3.17	1.64	4.9	5.5	5.2
June	28.68	28.98	28.44	65.9	78.1	83.3	61.2	72.2	92	46	57	57	75	51	.478	.485	1.63	1.34	3.6	2.4	4.2
July	28.73	28.97	28.45	68.7	80.4	86.6	63.7	75.2	97	53	60	61	76	53	.533	.548	2.29	.89	3.1	3.4	3.5
August	28.76	29.04	28.48	62.2	74.6	81.6	58.4	70.0	94	42	55	58	79	58	.453	.499	5.85	2.08	2.9	3.6	3.4
September	28.70	29.10	28.24	55.5	70.9	79.4	52.0	65.7	95	29	45	49	68	46	.323	.369	1.11	1.10	2.0	2.5	2.2
October	28.72	29.26	28.30	41.2	53.5	63.3	39.1	51.2	86	21	34	36	77	54	.205	.224	.58	.31	3.9	2.8	4.0
November	28.78	29.15	28.13	25.7	35.6	44.9	22.9	33.9	73	— 4	20	21	76	58	.111	.120	.75	.44	3.4	2.8	4.4
December	28.81	29.43	28.42	16.5	22.2	29.1	10.9	20.0	49	— 8	13	18	86	84	.084	.107	1.57	.89	5.5	4.5	5.4
Year	28.74	29.56	27.77	38.8	49.3	56.3	34.8	45.6	97	—21	32	35	78	62	.238	.258	23.05	2.08	4.2	4.0	4.7

SOUTHPORT, N. C.

[λ=33° 55′ N.; ϕ=78° 1′ W.; gravity corr.,—0.03.]

January	30.01	30.38	29.38	35.7	39.8	47.5	30.3	38.9	64	11	26	31	68	72	.160	.191	3.12	1.74	3.7	3.5	4.2
February	30.14	30.60	29.69	49.4	51.6	59.2	43.4	51.3	70	32	42	44	78	76	.289	.304	4.95	2.20	5.8	4.4	5.6
March	30.06	30.37	29.29	49.8	51.5	59.1	44.2	51.6	71	24	43	45	78	79	.304	.316	4.85	2.05	4.5	4.0	4.8
April	30.06	30.31	29.66	62.2	62.9	69.0	57.0	63.0	78	44	58	60	87	89	.496	.518	1.39	.64	3.7	1.4	3.9
May	29.94	30.31	29.57	68.5	68.9	74.5	62.0	68.2	83	52	62	63	82	84	.582	.595	5.72	2.60	4.0	3.1	4.0
June	29.99	30.20	29.57	76.1	75.8	80.3	69.5	74.9	92	59	70	71	82	84	.740	.752	5.76	3.72	4.5	4.3	4.9
July	29.99	30.21	29.84	80.3	79.8	84.7	73.8	79.2	90	67	74	75	80	87	.827	.879	6.79	3.75	3.6	4.5	4.5
August	29.93	30.06	29.56	77.5	78.5	82.5	71.3	76.9	87	62	73	74	87	86	.820	.840	5.92	1.32	5.6	5.1	6.1
September	30.02	30.19	29.84	74.3	75.0	80.6	68.7	74.6	92	52	70	71	86	87	.742	.782	4.79	1.66	4.4	3.0	4.4
October	30.02	30.43	29.24	62.8	65.8	72.0	56.7	64.4	80	37	60	61	90	86	.536	.566	4.94	1.97	3.8	3.4	4.0
November	30.08	30.59	29.73	52.9	55.8	61.6	47.3	54.4	70	24	50	52	90	89	.384	.411	2.90	.70	5.2	3.6	4.8
December	30.20	30.71	29.70	47.5	50.7	57.5	41.7	49.6	68	29	44	47	90	88	.312	.336	3.79	1.12	3.8	2.8	3.9
Year	30.04	30.71	29.24	61.4	63.1	69.0	55.5	62.2	92	11	56	58	83	84	.516	.541	54.02	3.75	4.4	3.6	4.6

SPOKANE, WASH.

[λ=47° 40′ N.; ϕ=117° 25′ W.; gravity corr., +0.01.]

January	28.09	28.43	27.37	21.2	26.2	29.6	17.8	23.7	55	—19	18	20	88	78	.104	.115	.66	.20	5.9	7.4	7.8
February	28.00	28.44	27.46	20.5	28.4	32.3	17.4	24.8	45	—19	19	23	94	80	.112	.128	3.91	.77	8.0	8.1	8.5
March	27.88	28.34	27.52	30.3	42.3	45.5	28.8	37.2	60	10	26	27	84	56	.144	.150	1.97	.46	6.6	7.0	6.9
April	27.89	28.21	27.28	37.4	47.4	50.9	36.5	43.7	63	31	33	36	83	67	.188	.217	3.97	.76	7.6	8.9	8.7
May	27.94	28.25	27.71	45.5	60.6	63.1	44.2	53.6	77	38	40	42	81	54	.249	.273	2.50	.52	6.0	6.9	7.1
June	27.97	28.20	27.68	48.1	65.4	68.6	46.6	57.6	81	39	38	36	89	36	.231	.212	.42	.16	3.6	5.7	4.7
July	27.96	28.11	27.78	54.6	78.5	81.1	53.4	67.2	99	42	44	36	98	24	.289	.218	.26	.18	2.9	3.8	3.6
August	27.94	28.19	27.62	53.7	81.7	83.8	53.0	68.4	98	45	40	32	90	17	.249	.185	.08	.08	2.6	2.1	2.5
September	27.88	28.24	27.54	48.5	66.3	70.9	47.6	59.2	95	33	41	38	77	41	.261	.222	1.31	.50	5.9	6.2	6.1
October	28.00	28.39	27.62	39.8	48.9	52.7	38.1	45.4	62	26	35	36	83	62	.204	.214	2.00	.63	6.3	6.1	7.8
November	28.03	28.60	27.33	32.2	37.2	40.7	29.1	34.9	56	9	27	30	82	76	.154	.171	2.91	.68	6.1	7.0	7.3
December	28.06	28.50	27.50	30.5	34.7	37.4	27.5	32.4	49	16	28	30	90	83	.152	.168	1.91	.59	5.9	7.1	8.8
Year	27.97	28.60	27.28	38.5	51.5	54.7	36.7	45.7	99	—19	32	32	80	56	.195	.190	22.60	.78	5.5	6.4	6.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

SHREVEPORT, LA.

[H = 249 ft.; h_t = 77 ft.; h_r = 76 ft.; h_a = 84 ft.]

Month.	Wind.														Number of days.												
	By self-registers.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.				Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.6	S.	32	NW.	0	10	4	1	13	13	2	7	12	0	19	6	6	3	2	1	0	2	0	0	8	0	0
February	9.1	NW.	35	NW.	0	6	9	5	9	11	2	2	12	0	10	4	14	10	7	0	1	3	0	0	2	3	0
March	9.2	S.	40	NW.	1	11	3	4	12	19	4	2	7	0	15	9	7	8	5	0	0	0	0	0	3	3	0
April	9.9	S.	36	NW.	0	2	4	3	12	34	0	2	3	0	12	11	7	5	5	0	0	0	0	0	0	7	0
May	7.2	S.	40	SW.	1	5	6	5	17	20	0	2	7	0	11	14	6	12	8	0	0	1	0	3	0	7	0
June	5.5	SE.	30	S.	0	2	3	11	19	17	0	1	5	2	15	6	9	10	9	0	0	0	0	13	0	10	0
July	5.3	S.	38	N.	0	1	2	5	19	24	3	6	2	0	19	10	2	5	4	0	0	1	0	29	0	9	0
August	4.9	SE.	28	SE.	0	9	2	8	14	12	1	5	7	4	16	12	3	7	7	0	0	1	0	17	0	9	0
September	6.6	SE.	26	NE.	0	3	9	4	16	16	3	1	6	2	19	7	4	3	1	0	0	0	0	17	0	1	0
October	6.3	SE.	60	NW.	1	4	9	7	14	12	0	2	12	2	26	5	0	2	2	0	0	1	0	0	0	1	0
November	7.1	SE.	36	SE.	0	6	11	2	12	7	6	5	10	1	15	8	7	12	10	0	0	2	0	0	2	4	0
December	7.8	SE.	52	W.	1	4	2	8	15	13	3	3	12	2	18	5	8	5	3	0	0	4	0	0	2	2	0
Year	7.2	S.	60	NW.	4	63	64	63	172	198	24	38	95	13	195	97	73	82	63	1	1	15	0	79	17	56	0

SIOUX CITY, IOWA.

[H = 1,165 ft.; h_t = 96 ft.; h_r = 92 ft.; h_a = 109 ft.]

January	11.6	N.	43	NW.	4	19	2	4	6	10	0	0	18	3	10	9	12	7	2	6	0	0	21	0	31	0	0
February	13.4	N.	42	S.	5	13	7	4	5	11	1	0	13	2	10	9	9	10	6	10	0	0	18	0	27	0	0
March	12.4	NW.	44	NW.	3	13	7	8	8	9	2	1	13	1	7	11	13	9	5	7	0	0	10	0	23	1	0
April	16.4	NW.	54	NW.	5	5	9	9	9	5	0	1	20	2	5	12	13	5	5	4	1	0	0	0	11	2	0
May	11.7	N.	84	NW.	1	13	8	9	6	10	1	5	7	3	12	8	11	9	7	0	1	0	0	0	1	5	0
June	11.0	S.	48	NW.	3	8	6	4	10	23	2	2	4	1	15	9	6	5	4	0	0	0	0	3	0	6	0
July	8.4	S.	46	SW.	1	6	9	6	6	25	2	1	5	2	17	10	4	11	5	0	0	0	0	6	0	7	1
August	8.8	S.	50	NW.	2	7	7	2	15	20	3	0	6	2	17	10	4	11	10	0	0	1	0	4	0	7	1
September	9.6	SE.	36	NW.	0	8	6	4	16	13	1	1	9	2	23	4	3	3	1	0	0	0	0	0	2	0	0
October	10.5	NW.	34	N.	0	10	5	4	10	12	3	0	16	2	17	7	7	9	3	0	0	0	0	0	7	0	0
November	11.1	NW.	42	S.	1	4	2	3	11	12	5	1	21	1	13	11	6	5	4	4	0	2	7	0	23	0	0
December	10.2	NW.	38	NW.	0	5	4	8	11	8	2	0	20	4	10	11	10	7	5	5	0	2	16	0	29	0	0
Year	11.3	S.	84	NW.	25	111	72	65	113	158	22	12	152	25	156	111	98	91	57	36	2	5	72	13	154	28	2

SOUTHPORT, N. C.

[H = 34 ft.; h_t = 11 ft.; h_r = 3 ft.; h_a = 46 ft.]

January	8.6	NW.	48	S.	2	12	5	5	1	2	6	9	17	5	13	12	6	7	7	2	0	1	1	0	17	0	0
February	10.5	NE.	34	SW.	0	5	15	4	3	1	7	13	7	1	8	9	11	12	9	0	1	6	0	0	0	2	0
March	10.5	NE.	36	NW.	0	11	12	2	3	9	8	9	8	0	12	9	10	13	11	1	0	3	0	0	5	3	0
April	12.5	SW.	45	SW.	1	2	6	9	2	5	25	7	4	0	16	9	5	6	5	0	1	3	0	0	0	3	0
May	11.5	SW.	45	SW.	1	1	9	8	2	3	26	6	7	0	16	8	7	9	7	0	0	0	0	0	0	1	0
June	10.1	SW.	55	S.	1	2	10	13	7	7	14	3	4	0	12	11	7	10	8	0	0	0	0	1	0	4	0
July	10.1	SW.	30	SW.	0	4	6	4	5	6	24	8	5	0	14	14	3	11	7	0	0	0	0	1	0	7	0
August	10.7	SW.	72	S.	3	6	13	6	7	4	16	3	5	2	6	12	13	20	15	0	0	0	0	0	0	6	0
September	7.0	SW.	26	SE.	0	7	6	9	2	7	16	2	3	8	14	7	9	9	9	0	0	0	0	1	0	1	0
October	10.1	NE.	94	S.	3	12	21	12	2	1	2	3	5	4	17	4	10	6	6	0	0	0	0	0	0	0	0
November	10.0	NE.	40	SW.	1	15	18	3	1	2	2	12	5	2	11	9	10	11	8	0	0	1	0	0	2	0	0
December	9.8	W.	40	SW.	1	11	13	0	0	0	9	18	10	1	16	7	8	10	8	0	0	1	0	0	3	1	0
Year	10.1	SW.	94	S.	13	88	134	75	35	47	155	93	80	23	155	111	99	124	100	3	2	15	1	3	27	28	0

SPOKANE, WASH.

[H = 1,930 ft.; h_t = 99 ft.; h_r = 90 ft.; h_a = 107 ft.]

January	4.1	S.	36	SW.	0	10	7	5	3	16	7	1	5	8	2	11	18	7	6	6	0	4	20	0	29	0	0
February	4.2	S.	24	S.	0	3	3	7	10	20	6	2	0	5	1	6	21	21	21	20	0	1	11	0	25	0	0
March	4.8	S.	26	SW.	0	0	10	6	5	22	11	0	1	7	5	12	14	13	10	8	1	1	0	0	18	0	0
April	8.3	S.	36	SW.	0	2	6	4	9	25	10	1	0	3	1	6	23	23	19	2	3	0	0	0	1	1	0
May	6.9	S.	30	W.	0	1	6	5	9	24	12	1	1	3	4	10	17	13	11	0	0	0	0	0	0	0	0
June	7.5	S.	24	SE.	0	2	7	2	4	20	14	4	3	4	10	14	6	6	3	0	0	0	0	0	0	0	0
July	4.9	S.	24	S.	0	1	1	4	1	16	13	7	9	10	17	9	5	6	3	0	0	1	0	4	0	1	0
August	4.8	S.	24	SW.	0	1	5	2	1	16	7	8	12	10	21	10	0	1	1	0	0	0	0	6	0	2	1
September	5.9	S.	24	SW.	0	5	4	6	6	25	2	2	0	10	9	4	17	11	8	0	0	0	0	2	0	0	0
October	6.7	SE.	30	SW.	0	5	4	3	20	13	6	3	5	3	2	8	21	11	8	0	1	6	0	0	6	0	0
November	5.7	S.	30	SE.	0	9	4	2	15	14	10	4	2	0	5	9	16	19	14	10	0	3	5	0	19	0	0
December	5.4	SW.	30	SW.	0	7	6	6	3	14	16	2	6	2	1	6	24	13	8	5	0	9	8	0	25	0	0
Year	5.8	S.	36	SW.	0	46	63	52	86	225	114	35	44	65	78	105	182	144	112	51	5	25	44	12	123	4	1

(a) By eye observation at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

SPRINGFIELD, ILL.

[λ = 39° 48′ N.; Φ = 89° 39′ W.; gravity corr., —0.01.]

Month.	Pressure.			Temperature.							Moisture.									
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.33	29.65	28.79	14.1	19.7	25.3	8.2	16.8	55	—12	9	14	77	75	.071	.091	.65	.20	6.4	5.6	6.4
February	29.43	30.16	28.80	22.8	27.9	32.9	17.6	25.2	51	—8	17	22	77	77	.103	.125	3.47	.86	6.0	5.3	5.8
March	29.34	29.83	28.54	33.7	42.0	47.0	31.0	39.0	78	8	27	33	76	70	.159	.203	4.19	1.98	6.9	6.2	6.5
April	29.21	29.59	28.18	46.3	54.1	59.3	43.3	51.3	85	31	39	42	76	66	.247	.281	10.23	2.50	6.7	6.7	7.0
May	29.24	29.54	28.86	55.9	62.8	68.8	51.0	59.9	87	40	48	50	74	64	.339	.369	7.41	4.28	5.5	5.2	5.6
June	29.30	29.62	28.86	68.2	76.8	82.1	63.4	72.8	92	54	60	61	77	69	.501	.544	1.99	.83	5.3	5.5	5.0
July	29.33	29.52	29.14	73.3	82.4	88.0	68.0	78.0	93	61	63	64	72	54	.588	.595	1.60	.99	5.5	3.8	4.5
August	29.33	29.57	29.17	65.7	77.8	84.5	61.3	72.9	93	52	54	54	68	45	.434	.429	.28	.16	3.0	3.7	3.4
September	29.31	29.64	28.98	61.3	72.5	80.4	58.0	69.2	98	39	50	52	68	53	.384	.417	2.15	.82	4.7	4.1	4.6
October	29.35	29.63	28.90	47.2	58.0	67.3	44.3	55.8	87	24	41	42	78	57	.285	.293	.16	.07	2.6	2.3	3.0
November	29.39	29.76	28.72	33.6	41.5	49.7	30.2	40.0	71	8	27	28	75	61	.159	.170	1.57	.86	3.9	4.7	4.8
December	29.45	30.06	28.94	27.6	32.7	38.5	22.1	30.3	61	0	22	26	78	74	.135	.150	1.03	.32	6.3	6.5	6.5
Year	29.33	30.16	28.18	45.8	54.0	60.3	41.5	50.9	98	—12	38	41	75	63	.286	.306	34.73	4.28	5.2	5.0	5.3

SPRINGFIELD, MO.

[λ = 37° 12′ N.; ϕ = 93° 18′ W.; gravity corr., —0.02.]

January	28.59	28.98	28.06	23.4	32.2	40.2	19.5	29.8	65	0	19	22	83	67	.113	.130	.34	.28	5.6	4.1	5.1
February	28.65	29.36	28.19	27.0	34.2	43.1	22.6	32.8	60	—1	23	25	84	70	.133	.141	2.19	1.00	5.4	5.5	5.9
March	28.58	29.06	27.98	36.4	47.3	53.5	34.3	43.9	81	3	29	34	76	62	.175	.211	3.02	1.03	5.1	4.4	5.0
April	28.46	28.78	27.78	51.5	60.8	67.1	48.5	57.8	88	31	41	44	68	57	.272	.313	8.32	1.86	6.4	4.9	5.4
May	28.49	28.74	28.07	57.8	66.3	73.2	53.3	63.2	84	40	50	51	78	60	.380	.385	5.79	1.75	4.6	4.0	4.5
June	28.56	28.86	28.20	67.9	74.5	81.3	62.4	71.8	90	51	61	63	80	69	.592	.590	4.40	1.37	4.9	3.7	4.6
July	28.62	28.77	28.49	72.2	78.7	87.2	67.4	77.3	96	61	66	67	81	68	.638	.655	5.79	3.30	3.5	3.1	4.0
August	28.60	28.80	28.47	66.7	75.2	84.2	63.2	73.7	92	48	56	61	77	62	.512	.542	1.11	.70	2.5	3.3	3.5
September	28.57	28.88	28.20	63.2	74.5	83.5	60.4	72.0	102	40	52	54	70	53	.416	.438	5.91	3.90	3.7	3.0	3.3
October	28.62	29.02	28.22	48.3	59.8	68.9	46.3	57.6	88	31	40	42	73	53	.264	.289	1.15	.55	1.8	1.4	2.0
November	28.64	28.94	28.14	36.3	44.5	52.7	33.5	43.1	72	14	30	30	77	59	.178	.177	1.54	.71	3.3	4.1	4.2
December	28.70	29.16	28.24	33.3	41.4	47.5	29.6	38.6	67	7	27	30	78	64	.160	.182	.99	.51	5.0	3.5	4.8
Year	28.59	29.36	27.78	48.7	57.4	65.2	45.1	55.1	102	—1	41	44	77	62	.316	.338	40.55	3.90	4.3	3.8	4.4

FORT STANTON, N. MEX.

[λ = 33° 30′ N.; ϕ = 105° 26′ W.; gravity corr., —0.03.]

January	23.95	24.20	23.70	29.5	40.8	50.4	25.8	38.1	60	5	14	17	55	38	.084	.095	.75	.47	3.9	2.9	3.6
February	23.89	24.21	23.48	32.4	42.8	49.4	28.6	39.0	64	14	15	15	52	36	.087	.093	1.60	.66	6.1	5.8	5.8
March	23.89	24.27	23.51	36.2	50.9	55.8	29.8	42.8	75	17	15	8	44	20	.087	.066	.11	.06	3.3	3.6	3.6
April	23.85	24.07	23.61	47.1	63.4	68.1	40.4	54.2	78	25	6	—1	20	7	.060	.042	0	0	2.2	4.5	3.2
May	23.90	24.14	23.66	52.8	68.3	72.5	44.2	58.4	84	31	19	16	36	18	.125	.102	.72	.37	3.0	3.2	3.6
June	23.98	24.16	23.69	61.6	79.4	85.9	52.5	69.2	93	43	33	28	37	17	.197	.161	.45	.16	1.6	5.3	4.6
July	24.05	24.20	23.91	63.0	73.3	80.8	56.1	68.4	92	52	48	46	60	42	.335	.317	3.57	.70	5.4	7.2	7.1
August	24.04	24.17	23.92	60.8	68.9	74.4	55.4	64.9	84	44	53	52	76	59	.399	.401	4.74	1.05	6.2	8.1	7.3
September	24.00	24.20	23.66	53.8	67.0	73.2	47.7	60.4	83	38	42	43	68	49	.280	.295	3.47	1.60	4.3	4.8	4.8
October	24.03	24.24	23.75	41.9	57.6	66.1	36.4	51.2	75	27	24	24	50	28	.130	.128	.04	.04	2.3	2.4	2.4
November																					
December																					
Year																					

TAMPA, FLA.

[λ = 27° 57′ N.; ϕ = 82° 27′ W.; gravity corr., —0.04.]

January	30.08	30.38	29.78	49.6	54.7	64.8	45.2	55.0	79	29	44	46	80	72	.310	.329	2.36	.50	4.9	3.0	5.1
February	30.13	30.36	29.91	51.7	56.9	76.1	58.0	67.0	83	44	58	60	88	79	.496	.529	1.71	.59	4.6	3.3	4.6
March	30.09	30.38	29.84	60.3	63.7	74.8	55.4	65.1	85	32	55	55	82	75	.456	.459	6.57	1.92	4.3	3.1	5.0
April	30.06	30.28	29.80	69.7	72.2	83.7	62.9	73.3	90	53	62	63	78	73	.570	.580	1.34	.64	3.3	3.0	4.3
May	29.98	30.11	29.77	73.4	76.3	85.6	67.5	76.6	90	58	67	67	81	75	.660	.685	7.67	1.49	4.4	3.9	4.5
June	29.98	30.18	29.75	29.2	78.1	88.9	72.4	80.6	94	68	73	74	82	86	.820	.826	10.89	2.24	4.3	6.8	5.1
July	30.04	30.16	29.90	81.6	81.3	90.9	74.5	82.7	95	72	76	75	84	83	.898	.880	2.11	.57	3.3	5.5	4.6
August	29.93	30.08	29.53	80.0	80.7	89.8	74.0	81.9	94	71	75	75	86	84	.871	.877	8.56	2.61	4.7	6.1	5.1
September	29.99	30.12	29.88	77.9	78.8	87.8	71.6	79.7	94	66	73	73	88	83	.813	.811	6.24	2.55	4.4	4.3	4.8
October	29.96	30.20	29.47	70.9	73.5	82.6	66.2	74.4	88	57	65	66	82	77	.635	.636	2.46	1.43	3.7	3.8	5.1
November	30.07	30.33	29.87	62.1	66.4	76.5	58.0	67.2	85	40	58	61	88	82	.510	.547	2.73	1.28	5.3	3.0	5.3
December	30.20	30.40	29.89	57.0	62.9	73.0	53.6	63.3	82	38	54	56	89	80	.428	.470	1.32	.72	3.8	3.3	4.6
Year	30.04	30.40	29.47	68.5	71.3	81.2	63.3	72.2	95	29	63	64	84	79	.623	.636	48.96	2.61	4.2	4.1	4.8

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

SPRINGFIELD, ILL.

[H = 644 ft.; h_t = 82 ft.; h_r = 60 ft.; h_a = 85 ft.]

Month	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity Thunderstorms.	Aurorus.
	Miles.		*Mi.*																								
January	10.8	NW.	36	NW.	0	4	2	2	4	10	3	7	30	0	6	12	13	12	3	8	0	2	23	0	31	0	0
February	11.8	NW.	36	W.	0	2	1	5	8	9	3	8	20	0	9	6	13	12	9	5	0	2	12	0	26	1	0
March	12.1	W.	35	SW.	0	4	7	6	5	13	5	13	9	0	8	8	15	11	8	2	1	0	6	0	18	4	0
April	12.9	NE.	42	S.	1	5	11	2	9	11	6	7	9	0	4	11	15	19	17	1	4	0	0	0	2	12	0
May	10.1	N.	32	W.	0	13	4	8	3	11	6	10	7	0	7	13	11	15	12	0	0	0	0	0	0	11	0
June	7.4	S.	30	SW.	0	4	5	6	5	14	8	5	13	0	10	15	5	11	8	0	0	0	0	2	0	13	0
July	7.4	NW.	34	SW.	0	10	6	4	1	5	13	10	13	0	13	11	7	7	6	0	0	0	0	10	0	6	0
August	6.6	NE.	29	N.	0	11	14	4	7	8	3	2	12	1	19	5	7	5	2	0	0	0	0	5	0	1	0
September	8.6	W.	30	NW.	0	4	9	8	4	7	9	9	9	1	15	4	11	10	7	0	0	1	0	9	0	3	0
October	10.4	S.	36	W.	0	4	0	0	4	28	8	4	14	0	20	5	6	4	2	0	0	2	0	0	4	3	0
November	9.8	S.	28	S.	0	6	2	1	8	17	7	8	11	0	13	5	12	5	5	2	0	3	2	0	15	0	0
December	12.0	S.	33	W.	0	3	3	2	3	21	6	9	15	0	6	10	15	9	6	3	0	0	14	0	25	0	0
Year	10.0	NW.	42	S.	1	70	64	48	61	154	77	92	162	2	130	105	130	120	85	21	5	10	57	26	121	54	0

SPRINGFIELD, MO.

[H = 1,356 ft.; h_t = 77 ft.; h_r = 74 ft.; h_a = 90 ft.]

January	11.5	NW.	37	NW.	0	9	3	0	11	9	5	9	16	0	10	11	10	6	2	4	0	0	8	0	26	0	0
February	12.3	SE.	37	W.	0	10	2	6	13	6	3	5	11	0	9	5	14	8	6	2	0	1	5	0	23	2	0
March	12.7	SE.	37	SW.	0	3	5	5	16	13	4	7	9	0	8	14	9	8	7	2	1	0	3	0	12	3	0
April	13.4	SE.	50	NW.	4	7	2	9	16	9	6	4	7	0	8	11	11	15	13	0	3	0	0	0	1	11	0
May	9.9	S.	45	E.	1	6	8	3	11	14	3	4	10	3	13	11	8	14	11	0	0	2	0	0	0	7	0
June	8.1	SE.	48	N.	1	5	6	8	21	11	6	1	2	0	8	19	3	10	7	0	0	0	0	2	0	8	0
July	7.4	SE.	48	NW.	1	7	9	5	18	13	7	1	1	1	11	16	4	10	9	0	0	2	0	8	0	11	0
August	6.8	E.	25	N.	0	5	9	20	14	8	1	3	0	2	14	15	2	4	3	0	0	2	0	4	0	8	0
September	9.8	S.	36	SW.	0	2	11	8	15	17	5	0	1	1	17	8	5	7	7	0	0	0	0	10	0	3	0
October	10.8	SE.	36	NW.	0	7	1	2	25	10	4	7	6	0	24	5	2	4	3	0	0	2	0	0	1	3	0
November	10.3	SE.	36	SE.	0	8	4	5	18	8	3	6	7	1	13	10	7	7	6	0	0	1	1	0	12	0	0
December	11.6	S.	35	SW.	0	5	5	2	13	15	8	1	13	0	13	10	8	7	5	2	0	0	2	0	18	0	0
Year	10.4	SE.	50	NW.	7	74	65	73	191	133	55	48	83	8	147	135	83	100	79	10	4	10	19	24	93	56	0

FORT STANTON, N. MEX.

[H = 6,152 ft.; h_t = 16 ft.; h_r = 2 ft.; h_a = 27 ft.]

January	6.3	W.	36	SW.	0	2	1	2	4	10	8	21	11	3	16	11	4	2	2	2	0	0	0	0	24	0	0
February	8.8	W.	50	W.	4	1	3	2	3	0	6	25	12	4	5	15	8	6	5	4	0	0	3	0	17	0	0
March	10.4	W.	48	SW.	5	1	3	4	4	0	12	25	15	0	15	12	4	3	2	2	0	0	0	0	20	0	0
April	11.4	W.	50	W.	7	1	3	4	1	1	10	30	9	1	16	10	4	0	0	0	0	0	0	0	5	0	0
May	9.2	W.	50	W.	2	2	4	4	4	6	10	18	11	3	16	10	5	6	5	0	0	0	0	0	2	2	0
June	6.3	W.	36	W.	0	7	2	2	6	7	7	17	9	3	10	15	5	4	4	0	2	0	0	6	0	5	0
July	4.9	W.	36	W.	0	1	4	5	4	9	10	21	4	4	1	15	15	18	14	0	1	0	0	2	0	12	0
August	3.8	SE.	28	S.	0	3	3	8	12	8	10	8	7	3	3	12	16	18	17	0	2	0	0	0	0	6	0
September	4.6	W.	30	SW.	0	2	2	1	5	7	10	14	8	11	12	7	11	14	11	0	0	0	0	0	0	2	0
October	5.4	W.	34	SW.	0	2	4	1	5	5	9	21	10	5	23	4	4	1	1	0	0	0	0	0	6	0	0
November																											
December																											
Year																											

TAMPA, FLA.

[H = 36 ft.; h_t = 60 ft.; h_r = 52 ft.; h_a = 68 ft.]

January	7.4	N.	36	SW.	0	17	14	3	2	6	5	10	5	0	8	19	4	15	11	0	0	1	0	0	3	2	0
February	6.7	NE.	25	SE.	0	5	15	9	4	7	6	4	5	1	6	21	1	8	7	0	0	0	0	0	0	3	0
March	7.2	S.	36	SW.	0	8	9	3	5	7	9	11	9	1	11	15	5	10	9	0	0	0	0	0	1	4	0
April	6.4	W.	36	SW.	0	0	3	8	16	6	1	22	4	0	13	12	5	7	4	0	0	0	0	2	0	4	0
May	6.9	W.	30	SW.	0	2	12	6	11	8	3	11	9	0	10	18	3	8	6	0	0	0	0	1	0	4	0
June	6.5	SE.	37	SW.	0	2	4	9	23	3	7	9	3	0	6	21	3	21	19	0	0	0	0	13	0	16	0
July	5.1	W.	27	SE.	0	4	7	11	15	2	5	13	5	0	7	24	0	13	0	0	0	0	0	20	0	10	0
August	5.7	NE.	27	W.	0	2	12	5	20	5	4	9	5	0	6	22	3	19	17	0	0	0	0	15	0	3	0
September	5.7	NE.	28	S.	0	2	17	13	13	5	2	1	5	2	9	16	5	13	11	0	0	1	0	7	0	3	0
October	7.7	NE.	31	NW.	0	22	24	1	4	1	2	3	5	0	10	16	5	9	6	0	0	0	0	0	0	0	0
November	6.1	NE.	27	SE.	0	18	24	1	3	3	6	2	3	0	7	17	6	7	5	0	0	2	0	0	0	2	0
December	6.5	NE.	30	S.	0	17	20	4	7	2	4	3	5	0	11	17	3	4	3	0	0	0	0	0	0	1	0
Year	6.5	NE.	37	SW.	0	99	161	73	123	55	54	98	63	4	104	218	43	134	107	0	0	4	0	58	4	52	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

TATOOSH ISLAND, WASH.

[λ 48° 23′ N.; ϕ = 124° 44′ W.; gravity corr., +0.01.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	30.00	30.32	29.37	39.7	40.5	42.2	36.6	39.4	53	7	37	38	91	91	.233	.240	9.45	4.56	6.6	8.1	7.6
February	29.85	30.34	29.25	37.9	39.3	41.7	33.7	37.7	52	13	36	38	94	94	.221	.232	11.64	1.86	8.4	8.9	8.7
March	29.73	30.21	29.15	42.0	44.4	46.4	39.5	43.0	54	35	39	41	90	89	.238	.257	12.63	2.86	8.2	8.6	8.5
April	29.86	30.19	29.31	42.1	45.3	47.4	39.8	43.6	54	33	40	42	93	89	.251	.272	13.03	3.72	8.0	8.0	8.0
May	29.94	30.32	29.57	47.9	50.4	52.5	46.3	49.4	62	42	46	48	94	92	.313	.335	6.70	1.47	8.7	8.4	8.4
June	29.98	30.16	29.49	50.5	54.2	56.1	48.5	52.3	75	46	48	51	93	90	.338	.380	7.11	2.55	7.7	7.2	7.1
July (*a*)	29.98	30.12	29.77	53.0	57.7	59.3	51.1	55.2	64	47	52	56	96	92	.387	.440	1.74	.78	6.9	5.9	7.7
August	29.94	30.12	29.69	53.4	57.0	59.9	50.7	55.3	74	46	52	55	95	92	.387	.430	1.06	.57	4.6	3.3	6.0
September	29.84	30.17	29.43	52.0	54.7	57.1	49.4	53.2	62	46	50	52	94	92	.362	.393	6.04	1.80	6.7	5.3	6.8
October	29.94	30.37	29.31	47.4	49.3	51.2	45.4	48.3	55	39	44	45	88	86	.291	.303	8.88	2.12	5.3	5.8	7.2
November	29.91	30.44	29.11	42.6	44.0	46.7	39.9	43.3	53	34	38	40	85	85	.234	.247	11.63	1.90	6.7	7.3	7.1
December	29.96	30.44	29.20	44.6	44.6	46.5	41.2	43.8	52	33	41	42	89	90	.263	.270	14.28	2.36	8.4	7.9	8.8
Year	29.91	30.44	29.11	46.1	48.4	50.6	43.5	47.0	75	7	44	46	92	90	.293	.317	104.19	4.56	7.2	7.1	7.7

a One 8 a. m. observation taken late.

TITUSVILLE, FLA.

[λ = 28° 34′ N.; ϕ = 80° 51′ W.; gravity corr., −0.04.]

January	30.07	30.38	29.70	48.7	53.4	61.8	44.5	53.2	75	29	43	46	81	78	.300	.332	2.18	1.29	3.6	3.2	3.9
February	30.14	30.36	29.94	62.3	66.7	75.0	58.2	66.6	86	41	58	60	88	81	.509	.541	3.15	.74	3.1	2.7	3.5
March	30.09	30.37	29.74	61.1	64.1	72.7	54.4	63.6	85	34	55	56	81	75	.458	.463	3.83	1.95	2.9	2.9	3.5
April	30.08	30.29	29.83	70.5	72.5	80.1	63.7	71.9	89	50	63	65	79	78	.589	.622	1.72	.90	1.7	2.1	2.1
May	29.98	30.17	29.71	74.9	75.8	83.7	66.9	75.3	91	56	67	67	76	74	.661	.665	3.86	1.73	3.3	4.6	4.8
June	29.99	30.18	29.74	78.9	78.6	86.5	72.2	79.4	94	68	73	72	82	81	.812	.785	6.67	1.81	3.5	5.4	5.8
July	30.04	30.15	29.93	81.2	80.6	89.9	71.9	80.9	96	66	74	73	80	78	.847	.813	4.13	1.66	1.6	3.5	4.3
August	29.93	30.10	29.29	80.4	80.3	88.5	72.6	80.6	95	68	74	74	81	80	.833	.827	3.58	1.94	2.5	5.1	5.3
September	30.01	30.12	29.90	79.0	78.6	85.8	72.1	79.0	91	67	72	72	81	81	.800	.792	4.73	1.43	2.6	4.0	4.0
October	29.95	30.20	29.16	73.1	74.0	79.6	68.0	73.8	91	60	67	67	81	79	.659	.659	8.67	3.52	4.4	3.8	5.1
November	30.07	30.33	29.83	64.3	65.9	73.8	58.9	66.4	83	43	60	61	85	85	.533	.550	2.88	1.54	4.0	3.6	4.6
December	30.20	30.41	29.89	59.3	62.7	71.1	55.0	63.0	82	38	54	57	85	83	.445	.486	2.40	.78	2.6	2.5	3.3
Year	30.05	30.41	29.16	69.5	71.1	79.0	63.2	71.1	96	29	63	64	82	79	.620	.628	47.80	3.52	3.0	3.6	4.2

TOLEDO, OHIO.

[λ = 41° 40′ N.; ϕ = 83° 34′ W.; gravity corr., −0.01.]

January	29.23	29.60	28.52	12.8	17.3	22.5	9.4	16.0	49	−10	11	14	93	87	.078	.087	1.05	0.51	8.1	6.6	6.7
February	29.38	30.16	28.67	21.3	24.9	31.9	17.3	24.6	46	−3	19	21	89	83	.110	.118	2.34	0.43	8.2	5.9	6.4
March	29.31	29.84	28.77	31.5	36.6	43.7	27.2	35.4	70	16	26	28	80	70	.148	.161	1.18	0.46	5.1	5.0	5.8
April	29.23	29.58	28.45	43.6	47.6	54.4	35.5	46.4	81	27	36	38	76	71	.221	.239	3.17	0.61	6.9	7.0	7.1
May	29.19	29.59	28.69	53.2	59.1	65.2	47.8	56.5	85	37	45	46	75	62	.204	.314	1.24	0.28	5.8	6.3	6.0
June	29.28	29.58	28.94	68.2	72.7	79.7	61.7	70.7	89	49	59	60	74	66	.513	.524	2.00	0.68	4.0	3.7	3.9
July	29.28	29.52	29.08	70.0	76.2	84.3	64.3	74.3	93	55	60	60	71	58	.525	.519	1.36	0.64	3.1	3.5	4.0
August	29.30	29.53	29.07	66.0	72.6	80.3	60.5	70.4	93	50	56	56	70	58	.449	.459	1.45	0.99	2.5	2.5	3.1
September	29.31	29.64	29.06	58.6	65.1	73.4	54.4	63.9	91	34	50	50	74	60	.382	.387	0.94	0.42	3.9	3.1	4.0
October	29.32	29.76	28.52	47.7	53.7	62.0	44.7	53.4	82	25	42	44	81	72	.279	.307	3.49	1.97	4.2	2.9	4.3
November	29.32	29.81	28.69	34.7	39.9	45.9	32.2	39.0	66	10	28	32	78	73	.162	.191	2.49	1.31	5.5	5.0	5.9
December	29.36	30.01	28.75	27.0	30.7	36.2	21.9	29.0	64	2	23	26	85	82	.133	.150	3.10	0.96	7.2	5.9	6.7
Year	29.29	30.16	28.45	44.6	49.7	56.6	40.0	48.3	93	−10	38	40	79	70	.275	.288	23.81	1.97	5.4	4.8	5.3

TOPEKA, KANS.

[λ = 39° 3′ N.; ϕ = 95° 41′ W.; gravity corr., —.]

January	.....	.....	.....	.....	.....	34.0	14.3	24.2	52	0	.....	.....	.....	.....	.....	.....	0.06	0.05	.....	.....	.....
February	.....	.....	.....	.....	.....	40.0	17.6	28.8	58	−6	.....	.....	.....	.....	.....	.....	1.61	1.00	.....	.....	.....
March	.....	.....	.....	.....	.....	52.9	29.7	41.3	80	8	.....	.....	.....	.....	.....	.....	2.12	0.77	.....	.....	.....
April	.....	.....	.....	.....	.....	68.0	43.5	55.8	97	27	.....	.....	.....	.....	.....	.....	2.21	0.87	.....	.....	.....
May	.....	.....	.....	.....	.....	73.1	51.0	62.0	87	37	.....	.....	.....	.....	.....	.....	6.54	1.98	.....	.....	.....
June	.....	.....	.....	.....	.....	83.5	63.1	73.3	93	52	.....	.....	.....	.....	.....	.....	5.40	2.03	.....	.....	.....
July	.....	.....	.....	.....	.....	89.3	68.3	78.8	97	62	.....	.....	.....	.....	.....	.....	6.17	1.86	.....	.....	.....
August	.....	.....	.....	.....	.....	84.1	62.8	73.4	95	47	.....	.....	.....	.....	.....	.....	2.82	.97	.....	.....	.....
September	.....	.....	.....	.....	.....	83.3	59.0	71.2	104	40	.....	.....	.....	.....	.....	.....	3.90	2.36	.....	.....	.....
October	.....	.....	.....	.....	.....	71.0	45.5	58.7	88	30	.....	.....	.....	.....	.....	.....	0.25	0.14	.....	.....	.....
November	.....	.....	.....	.....	.....	55.1	30.2	42.6	80	15	.....	.....	.....	.....	.....	.....	1.30	0.67	.....	.....	.....
December	.....	.....	.....	.....	.....	47.8	25.5	36.6	67	3	.....	.....	.....	.....	.....	.....	0.35	0.22	.....	.....	.....
Year	.....	.....	.....	.....	.....	65.2	42.5	53.9	104	−6	.....	.....	.....	.....	.....	.....	32.73	2.36	.....	.....	.....

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

TATOOSH ISLAND, WASH.

[H = 86 ft.; h_t = 12 ft.; h_r = 1 ft.; h_a = 33 ft.]

Month.	Wind.													Number of days.													
	By self-registers.				Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Maximum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	20.6	E.	76	E.	12	0	0	37	9	5	4	6	1	0	4	6	21	18	16	4	0	1	6	0	7	0	0
February	20.5	E.	78	E.	12	1	0	28	5	5	9	6	2	0	2	1	25	22	21	8	0	1	3	0	6	0	0
March	19.4	E.	61	E.	10	0	2	23	10	6	11	7	2	1	2	4	25	23	19	1	0	0	0	0	0	0	0
April	13.1	SW.	54	E.	5	0	1	4	12	9	20	11	3	0	1	8	21	27	21	1	2	0	0	0	0	0	0
May	11.9	SW.	51	E.	2	0	1	9	8	7	17	16	4	0	2	7	22	24	19	0	0	0	0	0	0	0	0
June	10.9	SW.	41	E.	2	1	0	7	3	12	18	14	5	0	6	7	17	19	16	0	0	1	0	0	0	0	0
July	7.0	SW.	37	E.	0	1	0	4	7	5	24	16	5	0	3	10	18	12	6	0	0	8	0	0	0	0	0
August	9.8	SW.	55	E.	3	1	0	13	2	6	31	7	2	0	10	7	14	4	2	0	0	12	0	0	0	0	0
September	9.9	SW.	46	E.	1	1	2	12	5	11	15	10	4	0	7	7	16	14	11	0	0	7	0	0	0	0	0
October	14.7	E.	61	SE.	7	2	2	17	3	11	12	10	5	0	4	10	17	19	18	0	2	7	0	0	0	1	0
November	20.0	E.	80	E.	14	1	0	28	8	7	3	8	5	0	9	1	20	19	19	1	0	0	0	0	0	0	0
December	16.6	SW.	51	S.	9	0	0	15	10	10	20	3	4	0	1	4	26	28	26	3	1	3	0	0	0	2	0
Year	14.5	E.	80	E.	77	8	8	197	82	94	184	114	42	1	51	72	242	228	194	18	5	40	9	0	13	3	0

TITUSVILLE, FLA.

[H = 44 ft.; h_t = 15 ft.; h_r = 1 ft.; h_a = 70 ft.]

January	12.4	NW.	37	SW.	0	7	2	3	4	4	9	9	24	0	14	13	4	11	7	0	0	0	0	0	2	0	0
February	11.3	SE.	36	N.	0	3	8	5	14	6	9	8	3	0	15	9	4	10	9	0	0	1	0	0	0	2	0
March	14.2	SE.	46	N.	4	11	6	3	14	6	3	7	11	1	19	4	8	14	11	0	0	0	0	0	0	7	0
April	12.6	SE.	42	SW.	1	2	7	6	24	6	4	7	4	0	22	7	1	4	4	0	1	0	0	0	0	4	0
May	12.5	SE.	46	NE.	2	6	8	5	18	5	11	6	3	0	9	16	6	9	7	0	0	0	0	2	0	11	0
June	11.2	SE.	38	E.	0	1	7	7	19	6	9	9	2	0	7	17	6	14	13	0	0	0	0	4	0	12	0
July	8.7	SE.	42	SE.	1	3	1	5	17	7	12	14	3	0	10	21	0	11	8	0	1	0	0	11	0	16	0
August	11.3	SW.	55	W	2	2	7	4	9	12	16	4	8	0	5	23	3	12	9	0	0	0	0	5	0	14	0
September	10.7	E.	36	NE.	0	3	15	19	8	6	3	2	4	0	14	11	5	11	9	0	0	0	0	1	0	6	0
October	15.3	NE.	70	N.	4	16	17	6	2	2	4	5	10	0	11	15	5	14	13	0	0	0	0	1	0	2	0
November	11.8	NW.	40	NW.	1	8	6	8	4	1	9	2	22	0	11	16	3	11	4	0	0	1	0	0	0	2	0
December	11.0	NW.	42	NE.	1	6	10	3	5	5	5	6	22	0	18	11	2	9	8	0	0	0	0	0	0	1	0
Year	11.9	SE.	70	N.	16	68	94	74	138	66	94	79	116	1	155	163	47	130	102	0	2	2	0	24	2	77	0

TOLEDO, OHIO.

[H = 674 ft.; h_t = 122 ft.; h_r = 113 ft.; h_a = 127 ft.]

January	10.5	NW.	36	NW.	0	7	2	2	4	5	10	17	15	0	5	8	18	17	6	16	0	0	25	0	31	0	0
February	12.3	NW.	45	SE.	2	2	2	5	7	5	4	6	24	1	9	4	15	15	12	9	0	0	10	0	27	0	0
March	11.9	NW.	38	SW.	0	3	4	11	6	7	6	9	16	0	10	10	11	13	9	3	1	4	4	0	21	1	0
April	14.2	SE.	45	NW.	3	3	5	4	15	3	10	8	12	0	4	10	16	16	12	2	0	0	0	0	6	3	0
May	10.3	NW.	48	W.	1	4	5	6	9	4	9	7	18	0	8	9	14	9	7	0	0	1	0	0	0	7	0
June	9.1	W.	34	SW.	0	7	2	5	12	4	5	13	12	0	14	14	2	12	8	0	0	0	0	0	0	7	1
July	8.5	W.	41	NW.	1	5	8	5	10	8	7	12	7	0	17	11	3	9	7	0	1	0	0	6	0	7	1
August	7.7	SE.	36	NW.	0	9	9	8	15	5	5	4	5	2	19	10	2	5	4	0	0	1	0	3	0	2	0
September	9.9	NW.	32	SE.	0	5	7	6	8	4	4	10	14	2	15	10	5	7	5	0	0	0	0	2	0	1	0
October	9.3	NW.	43	W.	1	3	0	8	12	6	9	9	15	0	17	5	9	9	6	0	0	4	0	0	4	0	0
November	11.0	NW.	36	NW.	0	2	4	3	3	6	10	14	17	1	11	5	14	11	7	3	0	3	4	0	17	0	0
December	12.8	SW.	36	SW.	0	3	3	2	4	8	25	9	8	0	5	10	16	19	11	13	0	0	15	0	25	0	0
Year	10.6	NW.	48	W.	8	53	51	65	105	65	104	118	163	6	134	106	125	144	94	46	2	13	58	11	131	26	1

TOPEKA, KANS.

[H = — ft.; h_t = 81 ft.; h_a = 73 ft.; h_a = — ft.]

January	.....	NW.	....	.....	....	7	2	2	3	4	2	2	9	0	6	20	5	2	1	2	0	0	12	0	29	0	0
February	.....	SE.	....	.....	....	4	1	2	8	3	3	3	4	0	11	13	4	9	5	9	0	0	6	0	24	0	0
March	.....	E.	....	.....	....	4	2	6	3	5	1	5	5	0	13	11	7	8	6	3	0	0	3	0	16	1	0
April	.....	E.	....	.....	....	6	1	9	2	2	2	1	7	0	10	14	6	13	10	0	0	0	0	1	3	6	0
May	.....	S.	....	.....	....	5	2	3	3	7	2	3	6	0	8	16	7	11	11	0	0	1	0	0	1	5	0
June	.....	SE.	....	.....	....	4	1	5	11	8	0	0	1	0	10	18	2	11	8	0	0	0	0	0	0	8	0
July	.....	S.	....	.....	....	2	2	9	4	14	0	0	0	0	16	13	2	9	9	0	0	0	0	13	0	9	0
August	.....	E.	....	.....	....	4	2	12	9	4	0	0	0	0	19	9	3	9	8	0	0	0	0	7	0	7	0
September	.....	S.	....	.....	....	4	5	5	2	12	2	0	0	0	17	7	6	8	6	0	0	0	0	11	0	2	0
October	.....	S.	....	.....	....	2	0	1	2	14	1	0	11	0	17	13	1	3	2	0	0	0	0	0	3	1	0
November	.....	S.	....	.....	....	6	0	2	4	9	2	5	2	0	15	11	4	6	5	0	0	2	0	0	15	0	0
December	.....	S.	....	.....	....	4	1	0	1	12	5	2	5	1	14	12	5	5	2	1	0	0	4	0	23	0	0
Year	.....	S.	....	.....	....	52	19	56	52	94	20	21	50	1	156	157	52	94	73	15	1	2	25	35	113	39	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

TUCSON, ARIZ.

[λ = 32° 14′ N.; ϕ = 110° 53′ W.; gravity corr., − 0.03.]

Month.	Pressure.			Temperature.							Moisture.									Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.					
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.		8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*				
January	27.53	27.72	27.30	36.2	61.5	68.9	33.7	51.3	73	23	16	23	45	26	.101	.135	0.27	0.27		1.5	3.2	2.5
February	27.49	27.68	27.13	42.6	62.8	68.5	39.4	54.0	80	31	30	30	64	32	.170	.109	0.32	0.54		2.6	5.0	4.5
March	27.48	27.72	27.16	44.0	65.5	70.3	41.8	56.0	92	30	35	32	74	34	.210	.187	1.16	0.40		2.6	4.5	3.7
April	27.42	27.59	27.21	47.7	76.6	81.0	46.3	63.6	91	36	26	26	46	16	.151	.141	T	T		1.4	2.1	1.8
May	27.37	27.58	27.22	57.0	84.1	87.8	54.6	71.2	98	42	35	31	45	17	.215	.187	0.75	0.40		1.2	1.8	2.0
June	27.34	27.50	27.16	68.0	98.3	101.4	65.7	83.6	107	55	38	35	33	11	.231	.206	.00	.00		0.9	1.0	1.4
July	27.40	27.56	27.22	75.5	91.5	96.9	73.2	85.0	107	64	60	55	62	34	.533	.456	2.78	1.11		5.7	6.3	5.3
August	27.40	27.54	27.29	71.9	87.2	93.5	70.2	81.8	102	62	65	63	80	49	.622	.594	5.40	1.96		4.4	6.6	5.7
September	27.37	27.54	27.16	63.1	87.2	92.9	61.0	77.0	99	50	49	46	61	29	.374	.349	1.02	0.41		2.6	2.9	3.0
October	27.49	27.63	27.36	49.3	76.7	84.5	46.5	65.5	92	38	29	28	46	18	.157	.157	.00	.00		1.7	1.5	1.5
November	27.54	27.72	27.30	41.3	61.2	70.1	38.0	54.0	84	29	28	30	64	35	.159	.171	0.43	0.43		1.4	1.2	1.4
December	27.62	27.80	27.40	38.2	58.1	66.6	34.3	50.4	76	22	21	27	58	31	.130	.147	0.49	0.49		1.7	3.0	3.1
Year	27.45	27.80	27.13	52.9	75.9	81.9	50.4	66.1	107	22	36	36	56	28	.254	.242	13.12	1.96		2.3	3.3	3.0

VALENTINE, NEBR.

[λ = 42° 50′ N.; ϕ = 100° 32′ W.; gravity corr., −0.01.]

January																						
February																						
March	27.21	27.75	26.54	23.5	34.7	40.7	20.9	30.8	79	−3	18	25	81	69	.106	.137	2.41	.94		6.2	6.8	7.0
April	27.17	27.50	26.52	33.8	47.3	53.3	30.8	42.0	78	15	26	27	75	51	.142	.146	2.76	.68		5.5	5.7	6.5
May	27.20	27.52	26.48	46.3	60.4	66.2	41.5	53.8	86	27	39	40	77	50	.230	.252	2.07	.83		4.1	4.7	5.4
June	27.20	27.50	26.96	61.7	75.4	82.0	57.7	69.8	102	42	53	59	74	47	.410	.378	4.39	1.88		3.2	3.7	4.0
July	27.26	27.55	26.95	66.7	82.0	86.7	62.5	74.6	99	50	57	54	73	41	.472	.436	1.19	.88		2.6	3.5	4.0
August	27.28	27.58	26.93	61.2	77.8	82.2	56.8	69.5	95	36	50	48	70	37	.379	.349	1.20	.64		3.3	3.2	3.8
September	27.21	27.62	26.76	51.1	71.3	78.6	47.9	63.2	98	21	40	39	68	35	.263	.246	.08	.08		2.2	2.4	3.4
October	27.25	27.64	26.90	37.3	52.9	61.9	33.0	47.4	82	14	29	32	72	48	.162	.184	.23	.16		2.9	3.5	5.1
November	27.26	27.58	26.73	24.2	35.5	47.3	20.3	33.8	73	−9	16	20	69	55	.091	.114	.54	.24		4.2	3.5	5.3
December	27.27	27.73	26.94	21.1	27.0	36.2	15.3	25.8	60	−16	15	18	74	69	.088	.105	.83	.64		4.7	3.7	5.9
Year																						

VICKSBURG, MISS.

[λ = 32° 22′ N.; ϕ = 90° 53′ W.; gravity corr., −0.03.]

January	29.83	30.21	29.39	38.9	49.5	54.3	36.9	45.6	72	20	31	33	72	55	.186	.216	2.68	1.54		4.3	2.7	4.5
February	29.84	30.39	29.46	49.1	57.3	61.9	45.7	53.8	73	30	41	42	75	60	.286	.298	4.05	1.61		6.9	6.5	6.9
March	29.82	30.22	29.44	49.5	59.6	65.3	46.6	56.0	81	26	38	39	66	50	.249	.258	3.01	1.11		4.3	4.5	4.6
April	29.72	30.01	29.19	63.3	72.7	78.8	60.3	69.6	87	45	55	54	75	55	.463	.451	3.05	2.26		5.8	4.5	4.5
May	29.68	29.95	29.35	67.7	74.4	79.7	64.3	72.0	87	52	62	62	82	66	.563	.556	9.57	2.80		5.4	5.4	4.5
June	29.71	29.92	29.46	74.1	79.9	86.8	70.0	78.4	93	63	68	69	82	70	.693	.701	4.84	2.11		5.4	4.9	4.8
July	29.77	29.91	29.67	76.5	81.9	90.0	72.3	81.2	96	66	72	72	86	72	.785	.772	4.71	1.32		3.9	5.1	5.0
August	29.69	29.80	29.54	72.7	80.3	88.4	70.2	79.3	92	61	68	71	86	74	.697	.759	2.88	1.09		4.0	5.1	4.5
September	29.72	29.93	29.44	68.9	77.2	83.9	66.2	75.0	92	55	63	65	82	68	.586	.630	1.01	0.39		3.8	3.7	3.9
October	29.81	30.15	29.49	56.2	66.8	75.4	53.7	64.8	86	38	49	50	76	56	.366	.383	1.50	0.64		2.6	1.2	2.1
November	29.84	30.16	29.49	48.1	58.1	64.5	45.7	55.1	78	30	43	44	83	62	.293	.311	4.62	1.66		5.1	3.4	4.5
December	29.95	30.28	29.47	45.8	56.2	61.9	43.3	52.6	75	24	39	40	79	57	.284	.274	4.60	1.53		4.6	2.6	4.4
Year	29.78	30.39	29.19	59.2	67.8	74.2	56.3	65.3	96	20	52	53	79	62	.453	.467	47.42	2.80		4.7	4.2	4.5

VINEYARD HAVEN, MASS.

[λ = 41° 26′ N.; ϕ = 70° 43′ W.; gravity corr., —.]

January						33.0	16.8	24.9	52	2							1.61	.42				
February						38.8	21.2	30.5	50	4							3.85	.70				
March						44.5	28.0	36.2	60	15							5.82	2.00				
April						53.9	35.9	44.9	68	23							4.90	1.12				
May						66.3	47.3	56.8	82	40							3.58	1.11				
June						72.9	56.5	64.7	90	44							2.06	.50				
July						79.0	61.6	70.3	86	45							2.13	.96				
August						76.8	63.4	70.1	85	55							6.43	3.64				
September						69.0	54.6	61.8	79	46							2.56	.55				
October						62.7	50.0	56.4	71	37							2.22	.79				
November						51.8	38.7	45.2	72	23							2.52	.81				
December						47.2	29.2	38.2	61	10							7.36	1.77				
Year						58.0	42.0	50.0	90	2							44.44	3.64				

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

TUCSON, ARIZ.

[H = 2,432 ft.; h_t = 15 ft.; h_r = 4 ft.; h_a = 45 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	6.3	S.	33	E.	0	15	5	4	11	17	2	0	7	1	20	8	3	2	1	0	0	0	0	0	15	6	0
February	7.4	NW.	48	SW.	1	9	0	3	9	6	6	4	19	0	12	9	7	4	4	1	0	0	0	0	4	0	0
March	8.0	NW.	44	SW.	1	1	3	1	12	8	9	1	27	0	17	7	7	8	5	0	1	0	0	2	1	0	0
April	8.0	NW.	30	SW.	0	0	0	1	16	7	10	4	22	0	24	5	1	0	0	0	0	0	0	1	0	0	0
May	8.5	SE.	36	SE.	0	0	3	2	20	5	12	9	11	0	25	4	2	3	3	0	3	0	0	12	0	3	0
June	7.7	NW.	32	SW.	0	1	1	1	19	5	6	3	24	0	27	3	0	0	0	0	0	0	0	30	0	0	0
July	8.5	SE.	38	SE.	0	4	1	6	23	5	5	1	17	0	7	17	7	12	7	0	0	0	0	29	0	14	0
August	6.5	SE.	38	NW.	0	2	6	4	22	4	2	2	19	1	7	13	11	12	11	0	0	0	0	25	0	18	0
September	7.5	SE.	47	NE.	2	0	1	3	19	12	11	1	13	0	19	8	3	4	4	0	0	0	0	22	0	5	0
October	6.5	NW.	34	SW.	0	0	2	1	15	16	8	2	18	0	25	6	0	0	0	0	0	0	0	6	0	0	0
November	8.1	NW.	42	SW.	2	1	1	5	22	7	2	0	22	0	27	0	3	2	2	0	1	0	0	0	3	0	0
December	7.0	NW.	36	NE.	0	1	3	8	17	9	3	1	19	1	19	7	5	1	1	0	1	0	0	0	11	1	0
Year	7.5	NW.	48	SW.	6	34	26	39	205	101	76	28	218	3	229	87	49	48	38	1	6	0	0	127	34	41	0

VALENTINE, NEBR.

[H = 2,613 ft.; h_t = 37 ft.; h_r = 26 ft.; h_a = 38 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
January																											
February																											
March	12.6	NW.	52	NW.	4	6	3	5	4	6	4	5	20	1	3	11	13	11	8	10	0	0	9	0	24	0	0
April	14.3	NW.	52	W.	6	9	8	3	7	3	5	7	17	1	4	15	11	10	10	7	0	0	0	0	18	1	0
May	11.2	N.	52	S.	6	12	5	5	11	4	1	12	9	3	11	10	10	8	7	0	1	0	0	0	2	2	0
June	12.7	S.	48	S.	3	9	6	1	2	22	7	5	6	2	16	12	2	9	8	0	1	0	0	6	0	6	0
July	10.3	S.	52	W.	1	12	6	4	5	25	2	5	3	0	16	12	3	6	5	0	0	1	0	10	0	6	0
August	10.9	S.	44	N.	2	9	4	5	5	15	14	8	2	0	17	12	2	6	5	0	0	0	0	6	0	3	1
September	10.2	S.	36	S.	0	4	5	1	7	16	6	11	9	1	19	8	3	1	1	0	0	0	0	7	3	0	0
October	10.6	W.	48	N.	2	7	7	1	1	4	11	15	14	2	14	9	8	4	1	0	0	0	0	0	13	0	0
November	10.5	W.	48	NW.	2	6	1	0	3	11	9	15	13	2	14	6	10	7	4	6	0	0	4	0	25	0	0
December	9.9	W.	48	N.	1	6	4	2	2	3	8	21	15	1	12	6	13	7	4	7	0	0	12	0	28	0	0
Year																											

VICKSBURG, MISS.

[H = 254 ft.; h_t = 65 ft.; h_r = 58 ft.; h_a = 73 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
January	8.3	SW.	38	NW.	0	10	7	1	7	6	22	3	5	1	13	12	6	9	7	3	0	2	0	0	11	2	0
February	9.0	SW.	30	NW.	0	6	13	3	9	7	9	4	5	0	8	3	17	10	9	0	0	1	0	0	1	3	0
March	8.9	S.	48	NW.	1	11	8	7	6	15	7	5	3	0	17	2	12	11	10	0	1	2	0	0	2	6	0
April	10.0	SW.	38	NW.	0	2	3	8	5	23	14	4	1	0	15	9	6	7	5	0	0	0	0	0	0	6	0
May	7.1	S.	39	NW.	0	8	6	5	4	13	14	7	2	3	13	12	6	12	10	0	0	0	0	0	0	10	0
June	5.9	S.	31	N.	0	6	5	12	0	21	6	6	2	2	11	11	8	12	9	0	0	1	0	4	0	13	0
July	5.1	SE.	40	W.	1	7	6	4	15	6	15	6	2	1	10	15	6	13	11	0	0	0	0	12	0	13	0
August	4.5	N.	32	NW.	0	17	11	3	6	4	8	0	5	8	14	12	5	13	13	0	0	0	0	11	0	3	0
September	6.7	SW.	25	SE.	0	10	12	7	11	4	10	2	1	3	19	3	8	7	7	0	0	0	0	4	0	0	0
October	5.8	NE.	34	NW.	0	13	14	6	12	2	3	2	6	4	25	4	2	4	4	0	0	1	0	0	0	1	0
November	7.2	E.	32	E.	0	12	9	13	10	4	5	4	1	2	14	7	9	9	8	0	0	3	0	0	2	1	0
December	7.8	SE.	37	NW.	0	8	11	8	18	2	5	4	5	1	14	6	11	11	8	0	0	4	0	0	4	1	0
Year	7.2	SW.	48	NW.	2	110	105	77	103	107	118	47	38	25	173	96	96	118	101	3	1	14	0	31	20	59	0

VINEYARD HAVEN, MASS.

[H = — ft.; h_t = 20 ft.; h_r = 3 ft.; h_a = 55 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
January	10.2	W.			1	4	8	2	2	4	3	7	6	0	12	3	16	15	10	9	0	0	16	0	29	0	0
February	12.5	NW.			5	3	0	2	3	0	9	1	10	0	7	6	15	14	10	7	0	0	5	0	27	1	2
March	10.8	NW.			0	2	3	2	2	5	4	5	7	1	11	4	16	15	12	5	0	2	1	0	21	1	0
April	10.5	SW.			1	2	1	3	2	7	11	2	2	0	11	3	16	14	10	2	0	5	0	0	7	4	0
May	10.0	SW.			0	0	2	3	4	3	16	2	1	0	13	7	11	14	11	0	0	2	0	0	0	2	0
June	8.4	SW.			0	1	4	5	5	3	11	1	0	0	10	6	14	10	10	0	0	3	0	1	0	1	0
July	7.4	SW.			0	2	1	0	1	3	22	0	2	0	10	12	9	10	8	0	2	2	0	0	0	5	0
August	7.6	SW.			2	3	0	0	4	3	17	1	3	0	10	8	13	10	8	0	0	3	0	0	1	0	0
September	6.3	SW.			0	5	3	3	1	5	6	4	3	0	11	4	15	11	10	0	0	1	0	0	0	2	0
October	8.9	NE.			0	4	8	3	2	2	6	3	3	0	14	8	9	6	4	0	0	1	0	0	0	0	0
November	10.4	NW.			0	5	2	1	2	3	7	2	8	0	14	2	14	7	5	0	0	0	0	0	5	0	1
December	10.8	NW.			1	1	8	1	1	1	6	6	12	0	13	4	14	16	16	2	0	2	2	0	19	1	0
Year	9.6	SW.			10	32	30	25	29	39	113	34	57	1	136	67	162	142	114	25	2	21	24	1	108	18	3

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

WALLAWALLA, WASH.

[λ=46° 2′ N.; ϕ=118° 20′ W.; gravity corr., 0.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.10	29.36	28.41	27.5	30.2	34.0	23.5	28.8	63	−9	25	27	91	90	.140	.158	.79	.43	5.8	5.7	7.0
February	29.01	29.42	28.51	25.2	30.7	34.7	21.3	28.0	55	−15	22	25	87	82	.131	.149	1.75	.34	7.3	7.1	6.8
March	28.86	29.33	28.43	38.1	48.7	51.0	35.1	43.0	69	24	32	38	79	68	.184	.229	2.33	.98	6.9	7.1	6.0
April	28.90	29.25	28.24	42.8	54.9	57.6	39.8	48.7	70	32	38	44	84	67	.233	.290	3.88	1.09	7.1	6.7	6.1
May	28.92	29.24	28.58	50.4	60.1	67.9	46.2	57.0	83	39	44	48	80	55	.291	.343	3.04	.62	4.6	5.8	4.9
June	28.94	29.15	28.66	54.1	72.0	74.5	49.5	62.0	86	43	44	46	68	42	.286	.323	.37	.11	3.9	4.2	3.6
July	28.89	29.04	28.67	62.0	84.1	86.1	58.4	72.2	103	46	48	49	62	32	.338	.355	.22	.11	2.8	2.8	3.2
August	28.87	29.13	28.53	62.6	87.1	88.5	59.1	73.8	102	50	46	51	56	30	.319	.389	T.	T.	1.9	1.5	2.2
September	28.84	29.13	28.50	54.8	69.3	72.5	51.9	62.2	90	40	44	49	70	53	.296	.357	2.60	1.37	4.9	5.5	5.0
October	28.99	29.32	28.64	45.7	54.0	57.5	41.9	49.7	67	32	39	43	77	68	.237	.285	4.02	1.52	5.8	6.5	5.7
November	29.03	29.59	28.36	40.0	43.2	47.0	35.0	41.0	64	23	32	36	74	75	.184	.217	2.87	.97	5.5	6.5	6.7
December	29.07	29.46	28.63	40.1	43.2	47.5	35.4	41.4	60	26	34	36	78	76	.195	.210	1.20	.36	6.9	6.9	7.4
Year	28.95	29.59	28.24	45.3	57.0	59.9	41.4	50.6	103	−15	37	41	76	62	.236	.275	23.07	1.52	5.3	5.5	5.4

WASHINGTON, D. C.

[λ=38° 54′ N.; ϕ=77° 3′ W.; gravity corr., −0.02.]

January	29.91	30.33	29.12	19.7	26.0	32.7	16.5	24.6	57	−6	13	17	75	68	.085	.104	1.85	.90	6.5	4.3	4.9
February	30.05	30.70	29.19	31.3	36.8	42.8	27.4	35.1	65	11	24	25	74	62	.142	.139	4.25	1.48	6.2	5.8	5.7
March	29.97	30.50	29.32	36.4	43.0	49.8	32.4	41.1	64	17	28	29	70	59	.158	.174	1.83	.50	5.5	4.5	5.3
April	29.94	30.35	29.34	50.3	55.9	63.2	44.4	53.8	84	35	41	42	71	62	.265	.277	3.21	.79	6.5	5.0	5.8
May	29.81	30.28	29.31	59.2	62.9	72.0	51.2	61.6	89	40	49	51	70	67	.362	.389	5.41	2.73	4.5	5.9	4.8
June	29.91	30.20	29.53	70.2	73.1	81.5	63.5	72.5	95	54	61	63	75	72	.550	.585	1.81	.68	5.7	5.1	5.0
July	29.88	30.13	29.63	74.0	77.2	87.1	66.8	77.0	97	57	63	64	68	66	.580	.610	1.44	.45	5.2	4.5	3.5
August	29.88	30.10	29.48	71.3	75.8	84.9	64.4	74.6	95	55	61	62	72	63	.550	.559	2.32	1.33	4.3	3.9	3.7
September	29.96	30.24	29.62	62.8	65.3	74.5	57.4	66.0	88	42	56	58	78	74	.463	.470	3.91	1.00	6.3	4.7	5.0
October	30.00	30.41	28.93	52.5	56.2	65.9	47.1	56.5	83	26	46	48	80	74	.325	.352	4.11	2.17	4.1	3.8	3.8
November	30.03	30.58	29.64	39.2	44.1	51.7	35.4	43.6	66	21	32	35	77	70	.191	.213	4.30	2.39	5.9	3.8	5.0
December	30.06	30.77	29.42	33.9	38.6	47.0	29.6	38.3	65	11	27	28	77	66	.155	.163	2.27	.75	5.9	3.3	4.7
Year	29.95	30.77	28.93	50.1	54.6	62.8	44.7	53.7	97	−6	42	43	74	67	.319	.336	36.71	2.73	5.6	4.6	4.8

WICHITA, KANS.

[λ=37° 41′ N.; ϕ=97° 20′ W.; gravity corr., −0.02.]

January	28.60	29.01	28.14	24.7	31.0	40.7	20.6	30.6	61	6	18	23	77	73	.102	.126	.19	.13	3.2	2.6	3.0
February	28.65	29.32	28.05	23.8	34.8	41.8	21.2	31.5	65	−2	18	25	76	67	.103	.144	.80	.45	6.1	3.0	4.7
March	28.54	29.12	27.92	35.6	49.0	56.8	33.0	44.9	85	9	26	31	67	53	.151	.180	1.09	.52	4.2	3.8	3.5
April	28.42	28.76	27.89	49.7	62.7	70.3	45.4	57.8	98	31	38	36	66	42	.252	.227	.25	.18	5.5	4.9	4.6
May	28.46	28.76	28.10	55.9	68.3	75.0	51.2	63.1	88	34	46	47	73	51	.326	.345	2.22	1.14	4.2	4.1	4.0
June	28.49	28.83	28.26	69.4	80.4	86.3	63.2	74.8	100	51	62	62	77	55	.556	.560	3.41	2.02	4.0	3.4	3.6
July	28.54	28.78	28.33	74.3	84.6	92.4	68.8	80.6	101	61	66	64	76	51	.641	.596	5.02	1.76	3.6	3.1	2.9
August	28.56	28.82	28.34	68.0	79.9	87.0	62.9	75.0	97	45	60	59	76	50	.528	.509	1.51	.70	3.8	2.8	3.5
September	28.51	28.86	28.05	63.7	77.7	85.9	59.6	72.8	104	42	53	55	70	50	.418	.458	2.10	1.45	2.8	3.1	3.0
October	28.57	29.00	28.12	49.7	63.5	73.8	45.7	59.8	91	32	38	40	65	44	.244	.265	.02	.02	1.9	1.0	1.8
November	28.62	28.96	28.18	34.5	44.6	53.4	31.4	42.4	82	15	27	28	75	54	.154	.155	.91	.45	4.1	2.4	3.7
December	28.67	29.13	28.25	32.5	42.5	49.9	29.5	39.7	70	9	27	30	78	62	.161	.178	.67	.39	4.8	2.9	4.1
Year	28.55	29.32	27.89	48.5	59.9	67.8	44.4	56.1	104	−2	40	42	73	54	.303	.312	18.19	2.02	4.0	3.1	3.5

WILLISTON, N. DAK.

[λ=48° 9′ N.; ϕ=103° 35′ W.; gravity corr., +0.01.]

January	28.01	28.45	27.54	5.2	9.1	15.8	−2.2	6.8	42	−38	1	6	83	85	.055	.067	2.04	.42	7.7	8.0	8.1
February	28.04	28.68	27.62	−2.5	5.2	10.6	−7.3	1.6	37	−46	−6	2	82	85	.039	.058	.31	.13	6.3	7.8	7.2
March	28.00	28.62	27.43	8.2	20.2	25.2	5.4	15.3	55	−18	4	14	82	78	.059	.091	.12	.07	6.6	6.0	6.4
April	27.92	28.23	27.11	28.7	43.2	48.2	24.8	36.5	72	8	20	21	69	48	.112	.119	.38	.14	6.3	8.0	6.9
May	27.90	28.20	27.28	45.1	61.6	66.0	40.0	53.0	87	28	37	33	73	38	.222	.197	4.79	4.16	5.6	6.9	6.3
June (a)	27.87	28.13	27.35	56.4	71.5	76.5	51.0	63.8	92	43	46	46	71	43	.325	.317	1.84	.51	6.3	6.0	5.5
July	27.92	28.23	27.54	61.9	80.2	84.4	56.2	70.3	105	44	50	47	67	35	.370	.337	1.85	.52	4.8	3.6	3.9
August	27.93	28.29	27.55	56.5	78.5	84.1	52.6	68.4	103	36	42	39	66	28	.283	.258	.31	.14	3.3	4.6	3.7
September	27.87	28.34	27.40	45.8	64.9	72.5	43.0	57.8	95	20	34	33	64	34	.213	.207	.64	.25	4.6	5.6	5.4
October (a)	27.93	28.36	27.54	32.5	43.3	51.9	29.6	40.8	73	15	25	28	74	67	.136	.160	1.14	.31	5.7	6.1	6.0
November (b)	27.96	28.36	27.37	19.6	23.8	33.2	13.4	23.3	64	−24	12	14	74	65	.095	.105	c.11	c.11	c6.2	5.1	c5.9
December	27.96	28.53	27.51	4.7	13.6	17.7	−2.5	7.6	41	−32	−2	6	70	70	.042	.062	1.92	.63	5.3	5.7	5.3
Year	27.94	28.68	27.11	30.2	42.9	48.8	25.3	37.1	105	−46	22	24	72	55	.163	.165	15.45	4.16	5.7	6.1	5.9

a One 8 p. m. observation missed. b For 22 days. c For 23 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

WALLAWALLA, WASH.

[H=1,018 ft.; h_t=65 ft.; h_r=56 ft.; h_a=73 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	4.2	S.	25	SW.	0	3	4	6	1	18	17	12	1	0	4	12	15	5	5	4	0	6	15	0	24	0	0
February	4.7	SW.	23	S.	0	2	1	1	7	19	20	1	5	0	1	17	10	17	13	6	1	3	9	0	21	0	0
March	6.6	S.	32	N.	0	4	3	4	8	24	13	5	1	0	3	20	8	14	10	1	0	0	0	0	8	0	0
April	7.6	S.	33	NE.	0	3	3	3	4	25	18	2	2	0	2	22	6	19	13	1	2	0	0	0	0	0	0
May	6.6	S.	25	S.	0	2	3	5	1	27	16	5	3	0	13	12	6	16	10	0	0	0	0	0	0	0	0
June	6.7	S.	24	NE.	0	5	3	3	2	24	17	4	2	0	18	11	1	7	4	0	0	0	0	0	0	1	0
July	5.6	S.	22	W.	0	5	2	2	1	25	9	13	5	0	20	10	1	6	2	0	0	0	0	9	0	2	0
August	5.5	S.	24	SW.	0	6	1	0	2	19	14	8	3	0	26	5	0	0	0	0	0	0	0	14	0	0	0
September	5.4	S.	24	SW.	0	2	3	11	10	19	11	3	1	0	12	8	10	11	8	0	0	0	0	3	0	1	0
October	6.3	S.	33	SW.	0	4	2	3	5	32	11	3	2	0	12	7	12	12	10	0	0	0	0	0	1	0	0
November	5.8	S.	38	SW.	0	4	5	4	6	20	16	3	2	0	5	9	16	13	9	3	0	4	1	0	14	0	0
December	6.2	S.	32	SW.	0	5	2	10	3	27	10	5	0	0	1	13	17	11	7	1	0	4	0	0	11	0	0
Year	5.9	S.	38	SW.	0	45	32	61	50	279	172	64	27	0	117	146	102	131	91	16	3	17	25	26	79	4	0

WASHINGTON, D. C.

[H=112 ft.; h_t=59 ft.; h_r=42 ft.; h_a=67 ft.]

January	7.5	NW.	36	NW.	0	7	5	7	3	5	3	8	19	5	12	10	9	10	8	8	0	0	16	0	28	0	0
February	8.7	NW.	42	NW.	1	9	8	1	4	7	5	7	14	3	9	7	12	13	8	7	0	0	3	0	19	0	0
March	7.9	NW.	36	NW.	0	7	12	1	6	7	5	9	12	3	11	8	12	12	9	2	0	0	0	0	14	1	0
April	8.2	S.	38	NW.	0	5	5	7	6	11	8	5	7	6	7	13	10	15	13	0	0	0	0	0	0	2	0
May	6.9	S.	34	NW.	0	5	12	2	2	17	6	6	9	3	11	13	7	14	12	0	0	0	0	0	0	4	0
June	5.3	E.	26	NW.	0	7	10	9	9	5	7	5	5	3	11	11	8	11	6	0	0	0	0	4	0	7	0
July	5.4	S.	36	W.	0	9	8	2	3	13	10	4	9	4	17	11	3	11	6	0	0	0	0	4	0	7	0
August	5.8	S.	42	SE.	1	8	8	0	13	16	2	4	9	2	17	9	5	9	8	0	0	0	0	4	0	3	0
September	5.3	NW.	30	NW.	0	8	6	10	3	7	9	4	8	5	13	7	10	9	9	0	0	0	0	0	0	2	0
October	6.0	NW.	42	SE.	1	9	12	1	6	8	3	6	11	6	15	8	8	7	6	0	0	2	0	0	1	0	0
November	6.7	NW.	28	NW.	0	12	8	1	2	10	5	8	11	3	13	6	11	11	9	2	0	2	0	0	9	0	0
December	6.8	S.	36	NW.	0	8	3	1	2	15	7	1	16	9	14	9	8	10	7	1	0	1	1	0	18	0	0
Year	6.7	NW.	42	{NW. / SE.}	3	94	95	42	59	121	70	67	130	52	150	112	103	132	101	20	0	5	20	17	89	26	0

WICHITA, KANS.

[H=1,366 ft.; h_t=78 ft.; h_r=71 ft.; h_a=85 ft.]

January	8.2	N.	37	N.	0	10	10	2	9	10	6	5	10	0	19	8	4	2	2	2	0	3	10	0	29	0	0
February	10.4	N.	38	N.	0	13	6	0	13	8	4	2	10	0	11	9	8	5	5	4	1	0	6	0	21	1	0
March	12.4	S.	34	SW.	0	13	3	4	9	19	3	2	9	0	16	11	4	7	6	1	1	0	1	0	13	5	0
April	13.6	N.	53	N.	2	13	11	4	10	10	5	0	7	0	12	11	7	4	1	0	1	0	0	2	1	4	0
May	9.8	N.	33	S.	0	17	8	1	11	13	3	1	7	1	16	7	8	11	8	0	1	0	0	0	5	0	0
June	9.2	SE.	37	N.	0	9	3	7	18	16	4	0	3	0	18	8	4	5	5	0	0	0	0	8	0	9	0
July	8.7	S.	48	NW.	1	6	7	4	16	23	5	0	1	0	20	9	2	10	7	0	0	0	0	19	0	10	0
August	6.3	SE.	27	NW.	0	9	10	10	13	12	7	0	1	0	16	12	3	8	6	0	0	0	0	10	0	7	0
September	8.6	S.	34	S.	0	7	8	4	10	23	6	1	1	0	20	4	6	8	5	0	0	0	0	16	0	4	0
October	11.0	S.	32	NW.	0	9	1	4	8	23	6	1	9	1	24	6	1	1	0	0	0	0	0	2	1	0	0
November	9.3	S.	36	N.	0	16	2	2	5	23	2	3	5	2	16	10	4	6	4	0	0	1	1	0	14	0	0
December	10.2	S.	34	SW.	0	10	6	0	5	22	8	4	7	0	16	10	5	4	3	1	0	0	2	0	20	0	0
Year	9.8	S.	53	N.	3	132	75	42	127	202	59	19	70	4	204	105	56	71	52	8	4	4	20	57	99	45	0

WILLISTON, N. DAK.

[H=1,874 ft.; h_t=15 ft.; h_r=3 ft.; h_a=28 ft.]

January	8.7	NW.	48	NW.	3	3	12	5	1	6	5	14	16	0	3	5	23	18	16	18	0	0	25	0	31	0	1
February	9.7	W.	48	W.	1	1	5	7	3	3	8	22	6	1	5	6	17	5	3	5	0	0	24	0	28	0	2
March	8.5	W.	38	W.	0	4	7	12	4	7	6	14	8	0	5	11	15	4	1	4	0	0	22	0	29	0	3
April	10.6	N.	48	W.	3	12	10	7	4	5	5	7	10	0	5	8	17	8	4	4	3	0	1	0	26	0	0
May	11.4	NE.	48	NW.	2	0	17	10	8	9	2	6	9	1	9	5	17	7	5	1	0	0	0	0	5	2	0
June	9.5	W.	56	W.	1	8	9	7	3	6	4	18	5	0	11	5	14	17	10	0	0	0	0	1	0	10	1
July	8.9	W.	42	SW.	1	3	12	9	5	5	5	15	8	0	17	9	5	10	9	0	0	0	0	10	0	6	2
August	8.9	E.	52	W.	3	10	11	13	2	7	2	10	7	0	20	4	7	5	3	0	0	0	0	7	0	3	2
September	9.2	E.	36	W.	0	2	7	16	1	0	9	14	9	2	12	5	13	8	4	0	0	0	0	3	5	9	0
October	9.3	W.	37	NW.	0	5	10	3	4	8	4	13	11	4	8	11	12	7	4	3	1	1	1	0	17	1	0
November (b)	8.6	S.	c42	W.	c1	d3	d2	d1	d3	d16	d4	d9	d5	d1	c9	c2	c12	c1	c1	c1	c0	c1	10	0	19	c0	c2
December	9.5	N.	48	NW.	3	11	2	9	9	7	9	10	5	0	13	7	11	13	10	12	0	0	24	0	31	0	0
Year	9.4	W.	56	W.	18	62	104	99	47	79	63	152	99	9	117	78	163	99	70	48	4	2	107	21	191	22	13

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.
b For 22 days.
c For 23 days.
d For 22½ days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

WILMINGTON, N. C.

[λ = 34° 14′ N.; φ = 77° 57′ W.; gravity corr., −0.03.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.98	30.37	29.40	33.5	39.2	47.7	30.4	39.9	70	13	26	31	79	74	.173	.194	2.26	1.18	4.5	3.7	3.5
February	30.10	30.58	29.63	47.7	52.0	61.4	43.2	52.3	76	31	42	47	83	83	.293	.337	2.94	.98	5.6	4.6	5.6
March	30.02	30.34	29.22	48.3	51.7	62.0	45.1	53.6	76	26	43	46	83	82	.305	.331	2.40	.91	5.5	4.0	5.5
April	30.01	30.26	29.60	62.4	63.9	74.2	57.5	65.8	89	44	55	57	79	80	.454	.489	1.02	.42	4.4	2.3	4.8
May	29.89	30.27	29.51	67.0	68.0	77.3	61.2	69.2	87	50	60	62	78	80	.534	.559	5.01	2.19	4.6	4.0	4.8
June	29.95	30.17	29.36	74.0	74.1	83.0	68.2	75.6	90	60	68	69	83	84	.695	7.08	5.58	1.86	4.9	4.5	5.5
July	29.95	30.19	29.80	78.4	78.3	88.9	72.3	80.6	97	66	72	72	83	83	.778	.794	4.23	1.52	4.1	4.6	5.7
August	29.90	30.04	29.55	75.4	75.9	84.1	71.0	77.6	89	62	70	71	85	86	.749	.768	8.01	2.20	6.1	5.3	6.9
September	29.99	30.15	29.78	71.4	73.1	82.0	67.8	74.9	95	49	66	68	83	84	.651	.691	3.06	.95	4.8	3.3	4.3
October	29.99	30.42	29.07	59.9	63.6	72.4	56.5	64.4	82	38	54	57	83	79	.450	.483	3.26	1.08	3.7	3.1	3.8
November	30.04	30.57	29.67	50.1	54.4	63.2	47.1	55.2	76	26	45	49	83	82	.322	.363	1.71	.57	5.6	3.8	4.8
December	30.15	30.70	29.64	45.6	49.8	60.0	42.2	51.1	74	31	41	44	84	79	.279	.299	3.27	.92	4.1	3.1	3.5
Year	30.00	30.70	29.07	59.5	62.0	71.4	55.2	63.3	97	13	54	56	82	81	.474	.501	42.75	2.20	4.8	3.9	4.9

WINNEMUCCA, NEV.

[λ = 40° 58′ N.; φ = 117° 43′ W.; gravity corr., −0.01.]

January	25.76	26.11	25.10	16.2	30.8	35.1	12.3	23.7	52	−8	12	19	84	63	.079	.101	1.84	.80	3.0	4.5	4.7
February	25.68	26.03	25.26	23.0	33.1	36.6	19.4	28.0	45	−19	15	19	72	55	.089	.104	.82	.27	5.1	7.3	6.3
March	25.55	25.90	25.13	34.5	43.9	47.0	28.7	37.8	74	19	24	22	72	46	.125	.120	1.35	.26	6.5	7.7	7.1
April	25.60	25.90	25.13	34.3	49.2	51.6	31.3	41.7	65	20	22	17	63	31	.124	.099	1.15	.48	7.0	8.0	7.1
May	25.62	25.92	25.38	40.7	62.4	64.8	39.1	52.0	82	28	27	20	58	22	.144	.109	.44	.17	4.4	4.9	4.7
June	25.62	25.81	25.38	47.4	75.9	77.0	45.7	61.4	86	36	24	12	41	9	.129	.077	.06	.06	1.4	2.2	1.6
July	25.63	25.76	25.45	55.4	84.4	86.1	53.5	69.8	97	42	30	22	39	10	.172	.121	.11	.08	1.5	2.8	2.0
August	25.64	25.81	25.46	56.5	85.2	87.7	53.2	70.4	98	46	24	21	28	10	.131	.117	.18	.18	2.0	2.6	1.7
September	25.59	25.75	25.38	45.5	67.4	70.9	42.0	56.4	89	26	29	26	55	24	.166	.146	.55	.26	3.8	4.7	4.9
October	25.70	25.96	25.28	37.4	58.5	63.2	32.8	48.0	75	21	21	22	52	25	.111	.118	.16	.14	3.3	4.3	4.2
November	25.75	26.11	25.30	28.4	44.2	49.0	23.8	36.4	62	6	17	18	63	40	.104	.119	.72	.24	5.2	6.3	5.9
December	25.79	26.20	25.48	27.7	38.3	42.8	23.5	33.2	59	12	20	23	74	55	.110	.125	.47	.21	4.8	7.1	6.5
Year	25.66	26.20	25.10	37.0	56.1	59.3	33.8	46.6	98	−19	22	20	58	32	.124	.113	7.85	.80	4.0	5.2	4.7

WOODS HOLL, MASS.

[λ = 41° 33′ N.; φ = 70° 40′ W.; gravity corr., −0.01.]

January	.....	30.44	29.21	.....	22.5	28.3	14.8	21.6	53	−5	....	15	....	73	.....	.068	3.53	.87	.....	4.5	5.4
February	.....	30.74	29.11	.....	28.0	34.7	21.3	28.0	48	1	....	23	....	80	.....	.130	7.18	1.78	.....	5.0	5.9
March	.....	30.53	29.38	.....	32.9	39.1	28.3	33.7	53	12	....	28	....	82	.....	.157	6.99	2.51	.....	4.5	5.6
April	.....	30.54	29.49	.....	41.4	47.7	36.1	41.9	55	28	....	36	....	82	.....	.217	5.26	1.45	.....	5.3	5.9
May	.....	30.26	29.42	.....	51.5	58.5	47.6	53.0	69	40	....	46	....	83	.....	.316	5.02	2.04	.....	4.8	5.3
June	.....	30.28	29.64	.....	59.5	67.1	55.7	61.4	82	50	....	56	....	90	.....	.461	2.61	1.56	.....	4.8	5.7
July	.....	30.12	29.57	.....	67.4	74.2	62.6	68.4	82	55	....	62	....	82	.....	.556	2.88	.96	.....	4.1	5.7
August	.....	30.15	29.51	.....	67.8	73.5	63.8	68.6	82	57	....	65	....	92	.....	.627	6.27	4.45	.....	4.5	5.6
September	.....	30.36	29.70	.....	61.3	65.7	55.6	60.6	73	45	....	57	....	85	.....	.470	2.99	1.16	.....	4.6	5.7
October	.....	30.51	29.49	.....	54.1	60.1	49.4	54.8	68	35	....	48	....	82	.....	.356	1.66	.91	.....	4.1	4.8
November	.....	30.61	29.54	.....	44.1	49.3	38.5	43.9	63	24	....	36	....	72	.....	.219	2.94	1.33	.....	4.0	5.4
December	.....	30.66	29.36	.....	35.4	41.3	27.6	34.4	57	5	....	28	....	73	.....	.167	5.67	1.16	.....	4.2	5.3
Year	.....	30.74	29.11	.....	47.2	53.3	41.8	47.5	82	−5	....	42	....	81	.....	.314	52.10	4.45	.....	4.5	5.4

YANKTON, S. DAK.

[λ = 42° 54′ N.; φ = 97° 28′ W.; gravity corr., −0.01.]

January	28.74	29.17	28.14	11.2	15.6	23.8	4.5	14.2	49	−13	5	9	73	72	.062	.076	.52	.20	5.6	5.9	6.6
February	28.79	29.46	28.32	9.7	19.0	25.4	6.3	15.8	51	−22	4	12	73	73	.064	.090	1.03	.38	5.7	2.9	5.1
March	28.70	29.34	27.98	22.2	31.5	36.9	19.0	28.0	74	−6	18	24	82	72	.109	.137	2.14	1.42	5.5	5.4	5.4
April	28.59	28.99	27.70	37.1	47.5	55.0	34.3	44.6	81	20	29	29	73	54	.180	.165	4.36	2.03	5.2	5.4	5.6
May	28.61	28.97	28.14	49.8	63.2	68.1	45.3	56.7	86	32	41	41	73	47	.256	.262	1.73	1.25	3.6	4.5	4.5
June	28.59	28.90	28.34	65.4	76.6	83.4	60.4	71.9	93	48	56	56	77	48	.483	.463	3.22	1.76	3.7	2.5	3.6
July	28.64	28.88	28.35	68.0	80.8	85.7	63.9	74.8	97	54	61	63	80	56	.549	.584	3.69	1.13	4.4	3.3	4.2
August	28.67	28.96	28.35	62.4	76.5	83.4	58.7	71.0	94	41	56	55	79	49	.458	.454	2.70	2.00	3.2	3.3	3.6
September	28.61	29.05	28.18	54.4	70.4	79.8	51.9	65.8	96	28	44	45	60	42	.309	.329	.80	.40	2.5	2.4	2.5
October	28.65	29.17	28.26	40.9	52.6	63.2	38.4	50.8	85	21	32	35	72	55	.191	.214	.80	.43	2.7	3.5	4.0
November	28.69	29.06	28.11	26.9	34.8	45.0	23.6	34.3	75	−5	18	21	69	67	.104	.119	.67	.20	5.0	3.1	4.7
December	28.72	29.34	28.36	16.3	21.3	28.2	10.5	19.4	54	−10	12	16	81	79	.076	.096	1.74	1.02	5.8	4.5	5.9
Year	28.67	29.46	27.70	38.7	49.3	56.5	34.7	45.6	96	−22	32	34	75	59	.235	.249	23.52	2.03	4.5	3.9	4.7

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

WILMINGTON, N. C.

[H = 78 ft.; h_t = 82 ft.; h_r = 76 ft.; h_a = 88 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Aurorae.
	Miles.		*Mi.*																								
January	8.8	NW.	42	NW.	2	10	7	2	4	6	7	7	17	2	18	6	7	10	3	0	0	1	6	0	18	0	0
February	10.7	NE.	46	SW.	1	6	15	2	4	6	10	5	8	0	9	7	12	14	8	0	0	0	0	0	1	2	0
March	9.9	SW.	48	NW.	1	6	12	1	1	14	14	3	10	1	8	12	11	14	11	0	0	1	0	0	3	2	0
April	11.8	SW.	38	SW.	0	1	7	8	4	8	23	6	3	0	12	12	6	8	6	0	0	1	0	0	0	6	0
May	10.3	SW.	40	SW.	2	3	6	6	4	3	26	5	8	1	12	14	5	8	6	0	0	0	0	0	0	3	0
June	7.8	SW.	36	SE.	0	4	10	8	8	10	13	3	4	0	6	18	6	11	9	0	0	0	0	0	3	0	0
July	7.3	SW.	30	SW.	0	5	9	5	2	4	28	8	1	0	7	17	7	14	10	0	0	0	0	12	0	10	0
August	7.7	SW.	49	SE.	1	4	12	8	8	9	13	2	4	2	5	9	17	18	15	0	0	1	0	0	0	6	0
September	5.5	S.	20	SW.	0	5	9	8	3	13	9	5	5	3	14	10	6	9	9	0	0	0	0	2	0	0	0
October	8.8	NE.	56	SE.	1	7	25	9	3	4	3	2	7	2	15	9	7	9	8	0	0	1	0	0	0	0	0
November	9.0	NE.	40	NE.	1	6	20	1	2	5	5	7	13	1	12	8	10	13	12	0	0	0	0	0	2	0	0
December	8.6	SW.	42	S.	1	6	13	0	2	6	18	7	10	0	19	3	9	9	9	0	0	2	0	0	5	0	0
Year	8.8	SW.	56	SE.	10	63	145	58	45	88	169	60	90	12	137	125	103	137	106	0	0	7	6	14	29	32	0

WINNEMUCCA, NEV.

[H = 4,340 ft.; h_t = 59 ft.; h_r = 54 ft.; h_a = 69 ft].

January	8.5	NE.	54	SW.	3	3	27	9	2	5	8	1	0	7	13	9	9	7	5	7	0	6	11	0	31	0	0
February	11.8	SW.	72	SW.	3	4	15	8	0	2	17	3	1	1	5	10	13	11	8	12	0	0	5	0	27	0	0
March	12.4	SW.	46	S.	2	5	9	9	1	8	16	14	0	0	6	7	18	14	10	13	0	0	1	0	22	1	0
April	12.4	SW.	58	SW.	5	5	2	2	0	7	23	14	7	0	4	8	18	12	8	8	1	0	0	0	15	0	0
May	11.1	SW.	46	W.	4	7	10	6	1	4	22	7	5	0	14	8	9	9	6	0	2	0	0	0	6	1	0
June	10.5	W.	56	S.	1	5	5	6	1	2	16	17	7	1	25	4	1	1	1	0	0	0	0	0	0	0	0
July	9.2	SW.	38	S.	0	2	7	6	1	5	21	12	7	1	22	6	3	2	1	0	0	0	0	9	0	0	2
August	9.2	SW.	48	S.	1	7	10	4	0	7	15	15	4	0	24	6	1	1	1	0	0	0	0	6	0	1	0
September	9.9	SW.	40	W.	1	8	6	7	0	6	22	6	3	2	11	9	10	8	5	0	2	0	0	0	2	3	0
October	11.0	SW.	48	SW.	2	6	11	6	1	4	18	12	3	1	14	12	5	3	1	0	0	0	0	0	16	0	0
November	11.4	SW.	58	SW.	6	2	11	11	0	4	18	10	2	2	10	6	14	9	6	2	0	0	0	0	23	1	0
December	10.0	SW.	45	SW.	1	5	9	15	0	8	20	3	1	1	6	12	13	7	5	6	0	0	2	0	27	0	0
Year	10.6	SW.	72	SW.	29	59	122	89	7	62	216	119	40	16	154	97	114	84	57	48	5	6	19	15	169	7	2

WOODS HOLL, MASS.

[H = 22 ft.; h_t = 51 ft.; h_r = 39 ft.; h_a = 57 ft.]

January	15.7	NW.	60	SE.	6	4	3	3	2	1	1	5	11	1	12	6	13	14	13	9	0	2	20	0	30	0	0
February	20.0	NW.	66	SW.	12	2	0	3	3	3	3	6	8	0	8	11	9	15	13	6	0	2	9	0	28	1	0
March	15.9	SW.	51	NW.	5	2	5	3	1	1	8	4	7	0	13	5	13	14	10	7	0	2	6	0	20	0	0
April	14.4	SW.	48	SW.	4	2	4	2	6	1	6	6	3	0	10	8	12	14	12	3	0	0	7	0	4	1	0
May	14.2	SW.	52	SW.	3	0	1	1	7	1	12	4	3	2	15	6	10	13	10	0	0	1	0	0	0	1	0
June	10.0	SW.	35	NE.	0	1	4	6	5	5	8	1	0	0	10	9	11	11	8	0	0	0	8	0	0	0	0
July	13.2	SW.	49	NW.	1	1	1	0	1	4	14	6	4	0	16	12	3	10	8	0	0	0	8	0	0	6	0
August	12.7	SW.	60	N.	4	0	2	2	3	5	11	3	5	0	12	7	12	8	8	0	0	0	4	0	0	1	0
September	15.6	SW.	58	S.	2	5	2	1	2	3	9	4	3	1	9	14	9	12	8	0	0	1	0	0	0	1	0
October	14.2	E.	50	SE.	4	3	1	1	3	3	6	3	5	0	15	10	6	8	5	0	0	3	0	0	0	0	0
November	17.0	NW.	48	SW.	6	1	5	2	3	2	4	3	10	0	11	10	9	6	6	0	0	1	0	0	5	0	1
December	19.3	W.	57	NE.	13	2	2	0	1	2	3	10	10	1	10	5	16	15	15	5	0	0	4	0	20	0	1
Year	15.2	SW.	66	SW.	60	23	30	30	37	31	85	55	69	5	139	103	123	140	116	30	0	39	39	0	107	11	2

YANKTON, S. DAK.

[H = 1,232 ft.; h_t = 51 ft.; h_r = 43 ft.; h_a = 57 ft.]

January	10.2	NW.	36	NW.	0	5	5	5	10	2	4	3	28	0	4	14	13	10	3	8	0	0	20	0	31	0	0
February	11.4	NW.	48	SW.	1	2	8	4	9	1	5	5	22	0	10	10	8	10	6	10	0	0	18	0	26	0	2
March	10.4	N.	42	NW.	1	14	8	9	6	4	4	4	13	0	9	10	12	11	6	6	0	0	14	0	25	0	0
April	13.8	NW	42	NW.	1	8	9	5	8	3	1	7	19	0	9	9	12	8	6	4	0	1	0	0	9	2	0
May	10.7	N.	48	SE.	3	11	5	11	9	6	4	8	6	2	15	5	11	7	5	0	0	1	0	0	0	4	0
June	10.7	S.	48	S.	3	3	6	3	14	16	5	3	9	1	17	6	7	6	5	0	0	0	0	5	0	0	0
July	7.6	SE.	36	NW.	0	5	4	7	11	10	8	3	11	3	11	15	5	11	9	0	0	0	0	6	0	9	2
August	8.1	SE.	46	NW.	2	4	4	6	19	8	10	2	8	1	15	13	3	9	6	0	0	0	0	6	0	7	2
September	8.2	SE.	36	SE.	0	1	5	5	18	5	5	6	15	0	22	5	3	2	1	0	0	1	0	7	2	0	0
October	8.8	NW.	35	S.	0	4	3	3	11	6	6	6	23	0	13	14	4	6	5	0	0	0	0	0	6	0	0
November	10.0	NW.	42	S.	1	4	3	3	7	5	9	4	24	1	10	14	6	5	3	5	0	0	9	0	21	0	0
December	8.5	NW.	32	NW.	0	3	9	4	8	1	12	4	20	1	6	14	11	10	8	9	0	1	16	0	31	0	0
Year	9.9	NW.	48	SW. SE. S.	12	64	69	65	120	67	73	55	198	9	141	129	95	95	63	42	0	4	77	24	151	22	6

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

YUMA, ARIZ.

[$\lambda = 32° 45'$ N.; $\phi = 114° 36'$ W.; gravity corr., —0.03.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.88	30.05	29.61	48.5	68.3	74.3	44.0	59.2	79	33	22	24	36	20	.124	.135	T.	T.	2.4	3.9	3.7
February	29.86	30.08	29.51	49.2	70.6	74.7	45.5	60.1	87	32	28	26	46	20	.156	.149	T.	T.	2.2	4.3	3.4
March	29.83	30.12	29.51	50.6	71.0	75.4	47.6	61.5	97	36	39	36	67	33	.245	.224	1.29	.54	1.5	4.9	3.6
April	29.75	29.97	29.57	56.0	81.5	85.2	53.6	69.4	96	45	35	28	49	15	.211	.154	.00	.00	1.9	0.5	1.5
May	29.65	29.88	29.42	62.0	88.6	92.3	60.2	76.2	104	52	48	38	62	19	.343	.244	.29	.29	1.1	1.7	1.6
June	29.57	29.74	29.37	71.8	100.5	104.6	69.6	87.1	111	57	53	46	54	17	.412	.327	T.	T.	0.5	0.5	0.4
July	29.61	29.79	29.41	77.9	99.3	104.5	76.1	90.3	109	70	66	62	70	33	.661	.587	.50	.45	2.3	1.7	2.0
August	29.61	29.71	29.46	79.7	98.6	104.1	78.0	91.0	111	67	69	64	71	36	.724	.635	.38	.25	2.0	2.2	2.2
September	29.60	29.78	29.45	68.0	92.8	97.8	65.4	81.6	107	54	54	50	63	25	.444	.389	.08	.08	0.4	0.6	0.7
October	29.77	29.94	29.54	59.2	81.8	88.1	55.8	72.0	98	49	43	43	59	28	.288	.290	.01	.01	1.1	1.5	1.2
November	29.88	30.11	29.62	48.7	66.5	75.1	44.8	60.0	86	32	36	38	64	39	.213	.241	.19	.19	0.9	1.3	1.6
December	29.97	30.23	29.73	48.1	63.7	71.8	43.8	57.8	83	34	32	34	56	35	.181	.200	.26	.14	1.2	3.5	3.2
Year	29.75	30.23	29.37	60.0	81.9	87.3	57.0	72.2	111	32	44	41	58	27	.334	.298	3.00	.54	1.5	2.2	2.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1893—Continued.

YUMA, ARIZ.

[H=141 ft.; h_t=16 ft.; h_r=2 ft.; h_a=50 ft.]

Month.	Wind.														Number of days.												
	By self-registers.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	6.6	N.	36	NW.	0	23	13	7	3	5	4	2	5	0	17	8	6	0	0	0	0	0	0	0	0	0	0
February	8.0	N.	39	W.	0	14	7	7	3	6	3	7	8	1	16	10	2	0	0	0	0	0	0	0	0	0	0
March	6.8	W.	33	NW.	0	5	6	8	2	11	9	14	5	2	18	10	3	5	4	0	1	0	0	5	0	1	0
April	9.2	W.	44	W.	1	5	4	4	1	5	7	20	14	0	26	3	1	0	0	0	0	0	0	10	0	0	0
May	7.7	W.	34	W.	0	10	5	4	5	7	10	18	3	0	27	2	2	2	2	0	0	0	0	20	0	2	0
June	5.9	W.	27	W.	0	3	2	4	4	4	19	12	7	5	28	2	0	0	0	0	0	0	0	30	0	0	0
July	6.9	SW.	38	E.	0	3	8	5	8	7	14	12	5	0	25	4	2	2	2	0	0	0	0	31	0	4	0
August	7.0	SW.	32	SW.	0	1	8	1	6	12	19	11	3	1	22	8	1	3	2	0	0	0	0	31	0	5	0
September	5.7	W.	29	SE.	0	5	8	5	3	5	11	17	6	0	25	5	0	1	1	0	0	0	0	28	0	2	0
October	5.4	NE.	28	N.	0	13	12	5	1	3	13	5	8	2	25	5	1	1	0	0	0	0	0	12	0	0	0
November	5.7	NE.	36	NW.	0	16	17	7	1	4	1	10	3	1	23	6	1	1	1	0	0	0	0	0	0	0	0
December	6.6	N.	32	N.	0	21	16	3	2	7	0	4	8	1	18	11	2	3	2	0	0	0	0	0	0	0	0
Year	6.8	W.	44	W.	1	119	106	60	39	76	110	132	75	13	270	74	21	18	14	0	1	0	0	167	0	14	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

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PART IV.

MONTHLY AND ANNUAL MEAN TEMPERATURE AND ANNUAL EXTREMES OF TEMPERATURE, TOGETHER WITH THE DATES OF FIRST AND LAST KILLING FROST, 1893.

The monthly and annual averages given in the following tables are taken largely from the records of voluntary (unpaid) observers. The paid stations of the Weather Bureau are indicated by an asterisk (*). The records of voluntary observers are given as made; no attempt has been made to reduce them to a homogeneous system. About two-thirds of the voluntary observers have standard instruments, but very few have what may be called standard shelters. The hours of observation at the regular stations of the Weather Bureau have already been described; the observing hours at voluntary stations vary greatly. The letters "*a*," "*b*," etc., following the name of a station have the following significance:

a = mean temperature computed by the formula $\frac{1}{4}(7+2+9+9)$.
b = mean temperature computed by the formula $\frac{1}{2}(8+8)$.
c = mean temperature computed by the formula $\frac{1}{2}(7+7)$.
d = mean temperature computed by the formula $\frac{1}{2}(6+6)$.
e = mean temperature computed by the formula $\frac{1}{2}(7+2)$.
f = from various hours reduced to true mean by special table.
g = mean temperature computed by the formula $\frac{1}{3}(7+2+9)$. (Southern Pacific Railway.)

The absence of a letter indicates that the mean has been made as follows: $\frac{\text{Mean max.} + \text{mean min.}}{2}$.

The small Roman letters in the body of the tables indicate the number of days missing from the records, thus "c" indicates three days missing, etc.

The dates of last killing frost in spring and first in autumn are given at the right of the table. Many observers, however, do not report dates of frost, and still others do not distinguish between light and killing frost. The date of the first and the last occurrence of a minimum temperature of 32° has been used in all cases where no frost reports were made. Data for stations so entered have been distinguished from regular frost reports by a dagger (†).

Bracketed values have been supplied by interpolation.

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MONTHLY AND ANNUAL MEAN TEMPERATURE, ANNUAL EXTREMES OF TEMPERATURE, AND DATES OF LAST KILLING FROST IN SPRING AND FIRST KILLING FROST IN AUTUMN, 1893.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Alabama.																	
Alco	45.0	57.9	57.3	69.6	73.1	78.2	81.5	79.6	76.6	64.4	55.7	54.2	66.1	97	20	Mar. 19	Oct. 31
Auburn	40.9	51.6	54.2	66.7	69.9	76.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	Feb. 23	.....
Bermuda	42.4	56.7	(57.3)	68.3	71.6	77.6	81.5	78.4	74.9	61.3	53.0	51.5	64.5	96	18	Mar. 6	Nov. 14
Birmingham	.....	.....	.....	.....	.....	*77.8	*83.6	*82.0	*78.0	67.0	50.2	50.9	.....	98	.....	.....	Dec. 4
Brewton	43.8	56.5	55.8	66.8	71.5	79.8	81.4	79.8	76.8	64.4	55.5	55.2	65.6	102	18	Mar. 19	Oct. 30
Camden	.....	.....	.....	67.8	71.4	77.3	84.9	80.6	75.8	.....	.....	.....	.....	99	.....	.....	.....
Carrollton	.....	.....	.....	67.1	69.8	76.4	80.3	78.0	72.5	61.3	51.7	.....	.....	94	.....	.....	Oct. 31
Citronelle	47.8	58.7	58.6	70.9	74.1	78.9	81.7	80.4	77.6	65.9	57.4	55.4	67.3	94	22	Mar. 5	Nov. 24
Clanton	.....	54.1	56.3	68.6	.....	.....	.....	86.3	73.4	62.2	.....	.....	.....	.....	.....	Mar. 19	Oct. 31
Daphne	45.3	56.9	56.2	68.6	73.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 6	.....
*Decatur	.....	.....	.....	.....	67.6	74.5	79.0	75.8	69.8	57.5	47.6	.....	.....	98	.....	.....	Oct. 15
Elba	(45.0)	(58.0)	55.8	68.3	72.2	75.7	82.4	77.0	74.8	66.9	55.5	52.4	(65.3)	97	.....	Mar. 5	Nov. 16
*Eufaula	(45.0)	52.2	(58.0)	68.4	72.7	79.0	82.6	80.8	79.8	69.4	58.8	54.8	(66.8)	100	29	Mar. 23	Nov. 16
*Evergreen	.....	.....	.....	.....	72.6	77.9	81.0	78.5	76.4	64.7	55.8	.....	.....	97	.....	.....	Nov. 16
Florence (a)	36.4	48.4	49.9	64.8	69.0	75.6	79.7	77.6	70.8	58.6	49.7	43.8	60.3	97	−6	Mar. 19	Oct. 16
*Fort Deposit	.....	.....	.....	.....	72.5	77.8	83.0	79.8	76.9	64.8	54.2	.....	.....	100	.....	.....	.....
*Gadsden	.....	.....	.....	.....	.....	.....	80.8	79.4	73.8	62.8	50.9	45.6	.....	.....	.....	.....	Oct. 31
Geneva	48.6	61.1	61.2	(70.0)	76.0	79.8	84.6	82.0	(77.0)	66.2	55.8	55.6	(68.2)	102	22	.....	Nov. 16
Greensboro (a)	41.6	52.5	54.2	68.6	70.2	75.8	80.7	77.8	73.7	62.8	54.4	49.7	63.5	98	12	Mar. 19	Nov. 14
Healing Springs	44.1	54.7	52.8	69.4	(65.2)	75.5	81.2	81.2	77.3	62.6	55.1	49.9	(63.2)	98	19	Mar. 6	Nov. 15
Highland Home	42.0	54.8	55.5	68.4	71.3	77.2	81.2	79.0	76.0	(64.0)	55.9	53.8	(64.9)	96	16	Mar. 19	Nov. 16
Jasper (a)	37.5	49.1	50.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 30	.....
*Livingston	39.0	52.8	52.2	66.8	69.4	76.1	82.3	79.7	74.6	62.6	53.4	(50.0)	(63.2)	100	12	Mar. 19	Nov. 13
Lynn	34.3	49.8	52.1	62.8	70.8	75.5	79.5	.....	74.8	.....	.....	.....	.....	.....	.....	Mar. 19	Oct. 15
Maple Grove	(36.0)	48.4	54.1	63.9	66.9	77.7	84.5	79.8	74.9	62.6	52.8	48.8	(62.5)	102	16	Mar. 28	Oct. 30
*Marion	.....	.....	.....	.....	72.0	77.6	82.6	80.8	75.0	65.0	55.5	.....	.....	100	.....	.....	.....
Maysville	37.9	51.1	51.7	63.5	67.5	75.5	83.2	79.0	.....	.....	.....	.....	.....	99	8	Mar. 19	.....
*Mobile	46.4	58.2	57.3	69.2	73.6	79.0	82.2	81.0	78.0	66.3	57.7	53.5	67.0	96	22	Mar. 5	Nov 16
*Montgomery	42.8	54.6	56.1	69.0	72.1	78.6	83.6	80.4	77.0	64.8	55.6	52.0	65.6	99	17	Mar. 19	Oct. 31
Mount Willing	43.0	56.3	55.8	70.2	72.9	78.2	83.2	79.8	77.4	64.4	56.6	52.4	65.8	99	18	Mar. 19	Nov. 15
Newbern	40.3	53.1	53.2	67.3	71.0	77.2	82.8	79.6	74.3	62.6	53.2	49.6	63.7	96	12	Mar. 19	Nov. 15
Newton (a)	.....	.....	.....	68.2	73.3	.....	83.4	77.8	74.8	65.1	56.1	48.8	.....	.....	.....	.....	Nov. 16
Newburg	37.6	48.3	50.9	65.0	67.4	74.8	82.0	77.4	*71.6	60.6	49.4	45.3	60.9	103	−8	Mar. 30	Oct. 15
*Opelika	.....	.....	.....	.....	71.8	78.0	83.4	79.6	*75.7	65.0	54.6	.....	.....	99	.....	.....	Nov. 15
Oxanna (a)	35.6	47.4	(53.0)	66.5	65.9	73.4	80.0	(79.0)	71.4	62.8	52.4	47.6	(61.2)	98	5	Mar. 15	Nov. 15
*Pine Apple	.....	.....	.....	.....	72.4	78.4	82.3	79.2	75.2	62.6	53.8	.....	.....	102	.....	.....	Nov. 1
Pushmataha	.....	.....	.....	.....	72.8	77.6	81.1	79.4	75.2	63.4	55.0	*51.9	.....	93	.....	.....	Nov. 24
Rock Mills	.....	.....	.....	.....	.....	.....	81.1	77.5	*75.0	*62.8	.....	.....	.....	.....	.....	.....	Oct. 16
Scottsboro	35.6	47.7	50.2	62.7	.....	.....	.....	.....	.....	*55.6	49.4	43.8	.....	.....	−5	Mar. 30	Oct. 30
Starlington (a)	.....	.....	.....	.....	.....	.....	.....	.....	75.0	62.8	54.7	51.5	.....	.....	.....	.....	Nov. 16
Talladega (a)	.....	.....	.....	.....	.....	.....	.....	.....	79.1	61.2	52.5	45.9	.....	.....	.....	.....	Oct. 31
Thomasville	.....	.....	.....	.....	73.2	78.5	82.4	79.6	75.5	63.4	55.2	.....	.....	98	.....	.....	Nov. 15
*Tuscaloosa	38.7	.....	.....	.....	.....	.....	.....	.....	.....	61.8	.....	46.6	.....	.....	.....	.....	Oct. 31
*Tuscumbia	34.8	(48.0)	49.7	63.1	66.0	76.4	81.1	77.9	71.0	57.6	(49.5)	(43.0)	(59.8)	99	.....	Mar. 19	Oct. 31
Union	43.3	53.1	55.1	68.7	71.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 5	Oct. 14
Union Springs (a)[1]	40.0	53.3	53.5	67.4	72.4	80.0	82.6	79.4	76.6	66.1	54.9	51.5	64.8	101	15	Mar. 18	Nov. 14
*Union Springs[2]	.....	.....	.....	.....	71.4	77.4	81.6	78.9	75.2	64.4	54.5	.....	.....	.....	.....	.....	.....
Uniontown (a)	42.5	54.4	55.6	(68.5)	71.8	77.9	82.4	80.6	77.1	66.2	56.4	*51.4	(65.4)	.....	.....	.....	Nov. 15
Valley Head (a)	31.0	44.8	48.5	61.6	64.0	72.1	77.9	74.7	69.4	57.6	47.8	41.9	57.6	95	−6	Mar. 30	Oct. 29
Alaska.																	
Coal Harbor, Unga Island (a)	26.9	32.1	32.4	35.0	40.9	48.7	51.7	50.7	49.9	40.4	35.6	32.6	39.7	.....	.....	.....	.....
Holy Cross Mission	.....	.....	.....	.....	.....	.....	.....	.....	.....	24.4	9.6	−6.8	.....	.....	.....	.....	.....
Killisnoo	27.8	27.1	34.0	36.4	47.0	49.4	57.1	54.6	47.6	39.0	29.4	29.7	39.9	.....	.....	.....	.....
Metlakahtla	34.3	30.7	37.9	41.0	47.6	52.0	57.2	54.4	51.7	41.2	32.0	34.5	42.9	.....	.....	.....	.....
St. Josephs Mission	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.8	12.8	−0.4	.....	.....	.....	.....	.....
Arizona.																	
Arizona Canal Co.'s dam	55.2	58.4	(62.2)	(68.3)	(76.6)	(87.6)	93.2	90.9	84.4	76.4	64.4	57.7	(73.1)	111	31	Jan. 18†	Dec. 29
Benson (g)	49.8	51.0	(51.5)	65.4	79.2	90.8	86.1	79.6	78.5	62.9	54.0	54.8	(66.9)	105	23	.....	.....
Bisbee (a)	46.8	49.0	50.4	60.8	66.3	80.1	73.8	71.8	70.3	61.2	49.8	46.7	60.6	99	24	Mar. 13	Nov. 20
Buckeye	(54.0)	(56.4)	60.5	66.0	74.2	83.4	88.7	88.2	79.0	68.5	59.3	55.8	(69.5)	118	28	Mar. 1	Dec. 5†
Calabasas	47.2	49.8	53.2	60.6	67.6	79.6	80.6	76.0	71.3	60.1	49.2	46.6	61.8	106	16	Mar. 21	Oct. 1
Casa Grande (g)	53.5	55.7	60.8	72.4	80.3	94.7	91.2	89.3	87.1	70.9	60.3	54.0	72.5	111	26	.....	.....
Crittenden (c)	*46.2	51.6	52.2	62.0	(68.8)	80.7	77.8	73.8	73.2	*62.8	*49.9	(47.6)	(62.2)	105	19	Feb. 28	Oct. 23
Dragoon Summit (c)	48.7	53.3	53.5	66.0	74.2	87.4	83.4	82.0	80.4	72.0	58.4	53.0	67.7	102	23	.....	.....
Dudleyville	47.7	54.4	56.5	64.3	72.6	82.9	86.8	85.2	77.1	66.3	53.5	49.5	66.4	109	22	Feb. 28	Nov. 13
Eagle Pass (c)	.....	.....	.....	*56.8	64.8	80.0	.....	.....	.....	.....	.....	39.8	.....	.....	.....	.....	.....
Farley's Camp	50.2	50.7	.....	.....	.....	.....	89.1	80.9	77.2	65.0	57.8	45.4	.....	.....	.....	Jan. 18†	Dec. 30†
Flagstaff	33.3	35.3	36.9	.....	.....	.....	.....	*64.8	*58.9	48.3	41.4	38.0	.....	.....	.....	Mar. 24†	Sept. 9
Florence	52.2	55.2	57.6	65.0	73.8	86.9	89.8	87.8	80.8	(70.0)	56.6	53.2	(69.1)	110	23	Mar. 13	Dec. 25

[1] P. L. Cowan.

[2] Cotton region observer.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Arizona—Continued.																	
Fort Apache	39.7	42.2	43.4	51.4	58.9	71.4	73.4	71.0	64.6	53.7	43.6	40.2	54.5	98	12	.....	Oct. 27
Fort Bowie	46.5	47.2	49.2	61.9	68.3	82.3	78.2	75.5	73.6	64.0	52.0	48.5	62.3	101	21	.....	Nov. 20
Fort Grant	49.8	48.4	51.4	61.4	67.7	82.0	77.9	75.6	72.2	63.2	51.4	49.4	62.5	104	23	.....	Nov. 20
Fort Huachuca	48.2	49.8	51.0	61.6	68.8	80.0	75.6	72.4	70.0	61.5	49.9	46.8	61.1	101	20	.....	Nov. 20
Fort Mojave	56.4	55.8	60.6	69.7	76.2	87.8	92.8	93.8	81.4	70.8	[56.7	(54.5)	(71.5)	116	27	Feb. 27	.....
Gila Bend (a)[1]	55.7	60.1	62.5	70.7	79.6	93.0	94.0	(85.5	77.2	67.6	53.2	49.7)	70.8	112	30	Jan. 22†	.....
Gila Bend (g)[2]	56.7	62.6	60.1	76.2	79.6	95.1	95.8	95.5	77.2	67.6	53.2	49.7	71.5	118	28	Jan. 22†	.....
Holbrook	25.4	41.0	44.4	[50.8	60.5	71.0	74.0	73.4	65.8	53.9	43.3	37.0	54.2	99	7	May 2	Oct. 26
Lochiel (a)	[46.0	.....	.....	.....	.....	.....	.....	.....	.....	58.6	47.5	44.8	.....	.....	.....	Jan. 18†	Oct. 1
Maricopa (g)	50.8	55.4	59.0	74.5	82.8	90.2	94.6	92.6	87.8	73.8	59.2	49.5	72.5	114	30	.....	.....
Mount Huachuca	46.4	48.4	50.8	62.1	67.5	81.9	76.2	73.0	71.0	61.8	48.7	47.3	61.2	105	16	Mar. 25	Nov. 20
Oracle (a)	47.1	47.8	48.8	59.8	67.8	82.1	77.5	75.2	72.2	64.0	51.3	48.2	61.8	100	27	Mar. 10	Nov. 19
Palomas	53.5	54.6	58.7	66.0	75.1	85.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 14	.....
Pantano (g)	49.9	48.4	51.5	66.8	75.8	86.6	85.4	85.2	78.9	66.1	56.9	49.8	66.8	114	28	.....	.....
Parker	.....	.....	.....	.....	.....	.....	.....	.....	.....	[68.5	49.8	45.7	.....	.....	.....	.....	Nov. 4
Payson (a)	39.3	40.0	42.4	50.8	59.6	(71.0)	74.5	72.0	64.4	52.2	41.9	38.7	(53.9)	.....	15	Apr. 6	Oct. 12
Peoria	52.8	56.4	59.2	65.7	75.0	86.5	91.6	88.8	79.4	68.5	56.2	52.6	69.4	109	21	Feb. 27	None.
Phœnix	54.4	56.4	61.7	67.2	74.6	83.1	91.7	(88.8)	79.0	65.4	52.4	48.4	(68.8)	116	23	Mar. 13	Dec. 4
Red Rock (c)	53.2	59.9	62.1	72.8	85.2	94.0	93.6	90.1	86.2	72.8	59.8	56.7	74.7	110	25	Feb. 16	None.
Reymert	52.8	52.9	59.0	.....	71.1	83.3	83.1	81.6	76.6	67.8	54.0	51.9	.....	105	31	Mar. 10	Dec. 29†
St. Helena Ranch (a)	.....	.....	.....	60.2	70.4	79.0	75.6	73.5	73.4	66.0	53.3	48.0	.....	.....	.....	.....	Nov. 18
San Carlos	47.7	49.8	52.4	60.7	69.2	81.4	85.0	82.2	75.4	63.2	50.0	45.8	63.4	110	17	.....	Oct. 27
San Simon (g)	49.0	51.7	57.8	68.7	80.5	89.7	90.3	82.1	79.5	67.9	57.6	50.9	68.8	110	28	.....	.....
Signal	51.6	53.4	57.1	63.9	73.3	84.9	89.7	86.2	77.4	65.8	53.8	50.5	67.5	109	24	Mar. 1	Nov. 1
Texas Hill (g)	56.5	58.2	63.1	70.4	77.8	95.3	95.9	94.7	85.3	72.0	59.3	53.7	73.9	116	28	.....	.....
*Tucson	51.3	54.0	56.0	63.6	71.2	83.6	85.0	82.8	77.0	65.5	54.0	50.4	66.1	107	22	Mar. 13	Nov. 20
Tucson (g)[3]	50.8	54.8	57.3	66.8	75.2	86.7	89.0	84.4	79.4	67.2	55.2	51.2	68.2	109	24	Feb. 16†	Nov. 29
Tucson[3]	53.3	49.9	48.9	58.9	71.8	82.3	89.1	87.7	81.2	65.5	58.4	51.8	67.4	106	27	.....	Nov. 20
Walnut Ranch (a)	40.9	44.0	48.6	57.4	65.7	78.7	75.0	72.4	69.2	58.1	45.0	43.6	58.3	99	20	Mar. 13	Nov. 13
Whipple Barracks	40.7	40.4	41.4	48.4	54.8	65.0	70.5	69.0	59.9	50.8	40.4	34.7	51.3	95	−2	.....	Oct. 26
Willcox (g)	48.6	51.2	62.4	63.2	70.4	83.8	(84.0)	87.4	78.4	64.5	48.9	42.5	(65.0)	106	20	.....	.....
Winslow (e)	36.2	41.4	45.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 28†	.....
*Yuma	59.2	60.1	61.5	69.4	76.2	87.1	90.3	91.0	81.6	72.0	60.0	57.8	72.2	111	32	None.	None.
Yuma (g)	59.4	60.4	60.4	72.9	78.6	88.9	95.2	92.8	83.4	79.9	70.4	62.9	75.4	110	32	.....	Dec. 29
Arkansas.																	
Ashdown (a)	42.0	46.0	52.0	66.9	68.4	76.2	80.5	78.6	73.4	60.1	49.7	48.1	61.8	102	.....	.....	Nov. 15
Bee Branch	.....	.....	.....	.....	66.2	75.6	79.0	77.8	[75.4	[62.4	49.7	46.1	.....	101	.....	Apr. 27†	Oct. 15
*Brinkley	35.1	41.7	48.6	62.6	68.2	75.6	80.4	76.5	72.4	58.6	47.6	45.1	59.4	97	13	Mar. 18	Oct. 29
Camden (a)	41.8	47.6	51.4	65.9	69.1	75.5	81.1	75.4	(75.0)	61.9	45.8	45.8	(61.4)	95	14	Mar. 19	Oct. 22
Conway (a)	32.6	41.7	50.2	64.7	67.8	74.4	79.0	75.6	73.2	57.8	46.9	44.5	59.4	95	−4	Mar. 18	Oct. 16*
Corning	31.8	36.4	48.8	62.6	67.5	74.8	80.0	74.9	70.5	55.0	44.8	39.7	57.3	97	6	Apr. 14	Oct. 15
Dallas	40.8	43.2	51.1	65.4	67.3	76.5	79.2	74.8	73.4	60.0	47.2	(45.0)	(60.4)	96	.....	Mar. 29†	Nov. 15†
Fayetteville	34.5	38.5	47.6	61.8	64.2	72.7	77.2	73.1	73.2	59.8	45.6	42.5	57.6	100	Zero.	Apr. 15	Oct. 15
*Forrest	41.5	45.2	52.6	66.8	70.9	77.5	82.0	79.4	74.8	63.0	53.0	*47.0	62.8	98	3	Mar. 29	Nov. 5
*Fort Smith	36.6	40.2	49.6	64.0	66.6	76.0	79.9	76.9	74.2	61.0	47.6	45.8	59.9	101	6	Mar. 29†	Oct. 15
Hamburg	.....	.....	.....	.....	70.8	76.5	81.0	77.0	73.2	61.0	52.0	48.0	.....	.....	.....	.....	Oct. 15
Harrison	35.0	37.9	48.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 29†	.....
*Helena	39.8	45.8	51.5	66.7	70.1	77.7	83.0	79.0	72.8	61.2	50.7	46.2	62.0	.....	.....	Mar. 18†	.....
Hope (a)	42.0	46.5	53.8	67.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hot Springs	39.4	44.8	51.1	65.3	68.4	76.8	82.0	77.6	76.0	64.0	51.0	46.4	61.9	103	3	Apr. 15	Oct. 27
Keesee's Ferry	33.6	36.9	47.0	61.0	65.6	73.8	78.8	74.4	72.6	57.8	45.8	42.4	57.4	102	1	Apr. 23	Oct. 15
Kirby	41.7	41.0	50.4	65.5	68.6	75.4	79.7	76.0	74.5	61.6	51.0	47.8	61.0	99	6	Apr. 23	Oct. 14
*Little Rock	39.8	42.6	50.6	65.2	68.3	76.5	81.0	78.0	74.4	60.6	50.0	46.2	61.1	98	11	Mar. 15	Nov. 15
Lonoke (a)	41.6	46.2	54.0	68.6	72.2	79.5	83.3	80.0	75.2	61.8	50.8	48.0	63.4	98	−2	Apr. 15	Oct. 15
Madding (b)	37.8	42.8	51.4	63.8	68.1	78.2	84.6	78.2	.....	.....	.....	.....	.....	.....	.....	Mar. 9†	.....
*Malvern	.....	.....	.....	.....	66.6	74.8	79.6	75.1	74.0	58.8	47.9	.....	.....	97	.....	.....	Oct. 15
Melbourne	33.4	39.0	45.4	62.2	68.5	76.2	81.4	76.0	.....	.....	.....	.....	.....	.....	.....	Apr. 23	.....
Mount Nebo	37.0	41.8	42.1	60.7	64.0	72.6	76.2	73.0	71.4	59.0	46.4	41.2	57.1	94	8	Mar. 29	Nov. 14
New Gascony (a)	[49.5	[45.0	52.4	61.8	69.5	[76.9	[81.8	[78.6	[73.4	(61.0)	[49.2	[48.0	(62.1)	97	8	Mar. 18	Oct. 15
*Newport[4]	31.9	33.2	(47.0)	67.0	69.8	77.6	82.2	78.4	73.8	61.2	49.4	43.8	(59.8)	101	3	Feb. 23†	Oct. 15
Osceola (a)	37.4	42.4	49.4	63.7	67.0	75.1	81.3	77.1	71.8	58.0	48.6	44.0	59.7	95	7	Apr. 23	Oct. 29
Newport[5]	.....	.....	.....	.....	69.0	75.2	79.6	76.0	71.6	58.4	48.2	43.4	.....	.....	.....	.....	.....
Ozark	38.2	42.6	(52.0)	(66.0)	(68.0)	77.4	82.8	79.0	77.6	62.5	49.2	46.9	(61.8)	101	0	Feb. 28†	Nov. 13
*Pine Bluff	[42.4	[47.0	51.4	66.4	72.7	[78.4	[83.8	[80.4	75.0	62.0	52.6	(49.0)	(63.3)	100	.....	Apr. 19	Oct. 30
*Prescott	42.0	48.6	53.5	(66.0)	68.0	76.1	81.1	78.4	76.4	64.0	52.8	(49.0)	(63.9)	96	.....	Mar. 18	Oct. 30
Rison	.....	.....	.....	.....	.....	77.8	82.8	79.8	76.7	64.6	53.6	48.6	.....	101	.....	.....	Oct. 15
Rogers	30.4	34.0	42.8	.....	.....	.....	.....	.....	.....	.....	.....	37.2	.....	.....	.....	Mar. 27†	Dec. 1†
*Russellville	37.5	43.4	50.2	64.3	69.2	76.8	81.6	77.7	74.6	60.0	48.8	46.0	60.8	100	−6	Apr. 15	Oct. 17
Searcy (a)	36.4	40.6	49.0	64.3	67.4	76.0	.....	.....	.....	56.1	45.0	40.9	.....	.....	0	Mar. 19	Oct. 16
Stuttgart	39.0	45.4	51.6	67.0	69.8	78.3	81.4	77.5	72.6	60.7	49.5	46.4	61.4	99	0	Mar. 19	Oct. 30
*Texarkana	48.7	49.8	54.4	66.8	73.2	78.8	83.4	80.6	77.5	64.8	53.6	53.2	65.4	100	20	Mar. 18	Nov. 15
Warm Springs (e)	.....	.....	.....	.....	.....	76.7	81.3	78.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Washington (a)	42.4	46.5	53.7	67.2	69.5	77.3	81.1	79.0	76.4	61.6	50.9	48.8	62.9	99	13	Mar. 29	Oct. 15
Winslow (a)	38.3	34.4	45.4	61.6	64.9	72.0	76.0	73.2	71.2	58.6	41.4	36.6	55.6	85	3	Mar. 25	Oct. 27
California.																	
Agnew (a)	46.9	48.4	51.0	[54.2	.....	[61.8	64.4	.....	.....	.....	58.0	52.0	.....	.....	.....	Jan. 7†	Dec. 29†
Alcalde (g)	43.4	50.2	53.2	59.2	72.6	79.0	82.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Alvarado	50.5	52.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Feb. 27	.....
Anderson (a)	39.7	42.9	47.9	53.0	64.2	72.3	76.7	75.8	65.0	57.6	54.6	44.0	57.4	106	20	Mar. 13†	Dec. 8
Anaheim (g)	58.0	54.5	60.2	61.9	65.2	67.8	71.7	74.5	67.1	65.2	58.8	56.4	63.4	94	36	.....	.....
Antioch (g)	46.1	51.4	53.0	56.9	65.2	72.1	76.0	73.9	67.0	62.5	54.5	48.9	60.5	104	30	.....	.....

[1] D. Murphy.
[2] Southern Pacific Railroad.
[3] E. L. Wetmore.
[4] *Cotton Region Observer.*
[5] G. B. Irby.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
California—Continued.																	
Aptos (g)	51.1	47.4	51.8	51.6	58.8	59.5	59.5	60.7	60.5	57.3	54.5	52.4	55.4	82	30		
Arcata	48.1	46.5	49.0	(49.0)	[m]57.0	55.8	[n]59.1	56.6	55.2	51.0	49.0	46.0	(51.8)	80	26	Mar. 13	Oct. 17
Arlington Heights	58.5	53.8	53.2	58.4	64.2	70.2	75.4	76.0	67.9	63.0	56.0	56.0	62.7	100	32	Mar. 12[f]	Nov. 18[f]
Athlone (g)	42.6	51.1	52.9	57.6	60.9	73.8	84.2	83.6	69.0	63.5	57.9	49.4	63.0	107	30	.....	.....
Auburn (g)	50.6	51.9	54.0	55.6	64.1	71.0	78.3	76.6	68.1	61.5	57.0	53.7	61.9	103	29		
Bakersfield[1]	42.8	48.4	52.2	56.2	65.2	71.8	78.5	(79.0)	70.0	67.0	57.0	50.0	(62.0)	106	22	Feb. 28	.....
Bakersfield (g)[2]	45.7	52.2	55.8	62.7	75.0	79.4	87.9	85.1	72.2	63.3	55.7	51.9	65.6	108	32	.....	.....
Barstow	48.5	48.6	52.6	60.6	70.8	78.2	78.6	82.0	67.0	59.0	52.0	48.0	62.2	107	27	.....	Nov. 12[f]
Beaumont (g)	57.6	51.0	50.6	57.8	63.4	74.8	79.9	80.8	68.8	66.1	56.6	53.4	63.4	102	30	.....	.....
Belmont (g)	48.6	57.7	57.4	54.9[f]	61.4	64.7	72.5	68.4	65.5	63.2	58.3	52.8	60.4	90	33	.....	.....
Berenda (g)	47.0	50.3	55.7	61.4	75.7	86.6	89.3	88.7	72.1	63.8	53.3	48.9	66.1	112	30	.....	.....
Berkeley	46.8	48.4	50.6	52.1	58.0	61.0	61.8	60.6	60.2	54.0	52.0	49.0	54.5	91	32	.....	.....
Bishops Creek (g)	42.8	43.1	48.7	59.3	70.3	82.3	84.7	83.9	71.8	61.7	48.8	44.2	61.8	102	20	.....	.....
Boca (g)	27.4	24.4	28.6	34.5	47.1	56.1	59.9	61.5	52.5	47.9	40.0	32.1	42.7	92	−14	.....	.....
Borden (g)	45.3	47.6	49.7	58.3	71.3	74.8	83.0	83.6	70.1	62.7	52.9	49.2	62.4	100	28	.....	.....
Boulder Creek (g)	41.1	45.0	50.8	59.6	58.5	61.5	64.3	59.7	50.3	40.3	50.3	55.8	53.1	102	24	.....	.....
Brentwood (g)	43.4	48.7	52.8	52.4	68.0	73.9	77.5	73.7	64.4	59.3	51.4	47.9	59.4	106	29	.....	.....
Brighton (e)	43.9	43.2	50.6	60.2	68.2	76.1	82.4	81.2	70.8	65.4	58.8	56.4	63.1	112	30	.....	.....
Byron (g)	44.5	48.8	53.8	(55.0)	69.0	71.7	77.8	74.4	65.0	59.7	52.5	47.1	(59.9)	108	28	.....	.....
Caliente (g)	47.0	49.7	52.8	57.1	70.3	82.0	82.7	83.2	68.3	61.4	53.3	49.8	63.1	107	30	.....	.....
Calistoga (g)	46.3	48.4	52.4	54.7	63.9	70.4	78.6	72.6	64.3	59.3	56.7	54.4	60.2	100	26	.....	.....
Capitola (g)	51.3	51.4	53.2	52.6	62.8	63.7	67.5	63.1	62.5	57.0	56.4	55.1	58.0	86	32	.....	.....
Castroville (g)	53.5	51.7	54.5	56.6	58.4	59.6	59.9	61.1	60.3	56.2	53.3	43.0	55.7	79	26	.....	.....
Centreville (a)	50.1	52.6	55.2	56.8	57.6	64.3	68.0	66.4	64.3	59.7	57.1	54.6	58.9	102	.....	.....	Dec. 30
Chico (g)	45.8	49.3	49.6	53.4	64.8	71.0	77.1	78.5	64.7	59.3	52.8	48.8	59.6	108	30	.....	.....
Chino (f)	55.2	54.3	55.7	61.3	67.2	74.0	78.7	75.2	65.3	62.0	54.0	52.0	62.9	98	31	Jan. 18[f]	Dec. 29[f]
Cisco (g)	32.9	25.8	27.8	29.8	38.1	47.5	61.7	62.1	47.9	44.7	36.3	33.0	40.6	88	4	.....	.....
Citrus (b)	38.4	41.7	45.6	55.7	66.8	74.0	81.2	78.5	66.0	52.2	39.4	36.4	56.3	110	.....	Mar. 13[f]	Nov. 16[f]
Claremont	52.0	51.2	59.6	55.2	60.6	67.5	71.4	[o]72.0	64.6	61.0	54.0	52.0	59.3	96	30	.....	Dec. 29
Cloverdale (a)	47.5	49.4	54.0	57.3	66.9	72.7	79.5	77.0	67.2	63.0	58.0	54.0	62.2	106	28	Feb. 15	Dec. 28
Colfax (g)	50.3	46.2	46.0	47.8	59.8	69.1	73.9	81.6	62.5	58.9	50.4	48.2	57.9	102	26	.....	.....
Colton (g)	54.6	51.9	54.6	59.2	65.8	74.0	77.5	78.8	70.3	64.0	57.7	51.6	63.6	105	30	.....	.....
Colusa	42.3	45.8	51.2	54.8	[p]66.0	69.8	76.4	75.6	65.8	50.0	53.6	49.0	59.1	102	28	.....	Dec. 16
Corning (g)	46.5	46.0	50.9	54.9	67.2	74.9	80.7	80.0	68.9	61.8	56.5	49.9	61.5	112	25	.....	.....
Crofton (g)	58.1	50.6	52.6	64.9	71.2	78.2	78.7	81.0	70.5	65.4	55.7	51.4	64.9	100	35	.....	.....
Davisville[3]	49.4	58.3	59.5	61.8	66.8	70.8	74.7	75.1	69.6	65.0	58.0	55.4	63.7	102	27	Jan. 31	.....
Davisville (g)[2]	45.7	48.6	54.1	60.0	71.0	76.3	79.0	77.3	67.3	59.1	53.7	48.0	61.7	106	32	.....	Nov. 20
Delano (g)	45.3	48.3	53.5	57.0	70.9	78.0	85.0	86.0	72.8	63.9	50.5	48.5	63.3	106	30	.....	.....
Delta (g)	47.4	45.8	51.9	57.3	64.7	.....	79.4	79.4	65.7	61.4	50.2	48.3	.....	108	21	.....	.....
Dinuba (g)	.....	.....	.....	.....	.....	.....	.....	85.1	73.1	62.4	50.7	48.6	.....	.....	.....	.....	.....
Downey (g)	53.3	58.1	59.9	61.9	66.6	68.7	72.7	74.6	69.8	65.9	66.3	57.8	64.6	96	36	.....	.....
Dry Creek (c)	.....	.....	.....	.....	.....	.....	79.6	73.3	62.7	55.0	48.0	43.0	.....	.....	.....	.....	Nov. 19[f]
Drytown	39.8	43.5	48.8	53.0	61.2	67.2	74.6	(78.0)	(63.0)	(56.0)	52.0	46.0	(59.9)	.....	26	Apr. 17[f]	Nov. 19[f]
Duarte	56.3	53.6	54.5	59.8	65.0	71.1	75.0	75.0	69.4	66.0	60.0	60.0	63.8	100	35	.....	.....
Dunnigan (g)	38.1	38.8	47.9	58.4	70.1	80.2	79.6	80.0	68.5	61.9	51.4	47.9	60.2	104	26	.....	.....
Dunsmuir (g)	42.2	37.6	43.1	47.6	56.9	63.0	70.0	68.5	59.6	50.1	44.0	44.5	52.5	98	19	.....	.....
Edgwood (g)	32.3	32.9	36.0	43.5	52.2	62.2	67.3	67.7	51.5	45.6	41.0	33.4	47.4	90	10	.....	.....
Edmanton (a)	40.4	33.7	35.0	36.8	47.1	54.8	62.0	64.4	52.0	48.0	40.0	36.0	45.8	93	13	June 19	Oct. 16
El Casco (g)	48.6	49.3	56.2	.....	.....	78.3	.....	79.9	.....	.....	.....	.....	.....	.....	.....	.....	.....
Eldorado (g)	46.8	45.9	49.8	54.1	64.3	(70.0)	79.8	80.0	65.5	59.4	53.6	49.2	(59.9)	108	29	.....	.....
Elmira (g)	44.1	48.8	(53.0)	59.8	67.3	72.5	78.6	79.4	66.6	60.2	53.3	51.2	(61.2)	107	30	.....	.....
El Verano (g)	45.3	50.3	52.1	56.2	63.8	69.2	71.9	69.2	63.4	58.4	53.4	50.6	58.6	98	31	.....	.....
Emigrant Gap (g)	42.1	33.2	33.5	41.3	50.9	62.2	67.9	68.0	53.4	48.7	40.0	37.9	48.7	85	16	.....	.....
Esparto (g)	43.1	48.7	52.9	56.3	70.2	79.2	(88.0)	80.0	72.0	63.0	53.7	52.9	(63.3)	111	24	.....	.....
*Eureka	44.7	45.2	47.8	47.8	51.4	53.7	55.9	55.2	56.0	51.4	50.9	47.4	50.6	69	29	Apr. 8	Nov. 17
Exeter (g)	46.6	51.5	55.9	60.8	68.6	77.2	83.6	83.9	71.3	62.9	58.8	50.3	63.8	104	29	.....	.....
Fall Brook (a)	53.0	51.6	51.1	55.9	61.0	65.2	68.7	70.6	64.6	60.0	53.0	54.0	59.1	98	33	Jan. 26	Dec. 29
Farmington (g)	49.5	50.0	50.3	55.8	68.4	76.8	82.8	79.0	71.6	63.0	53.4	50.1	62.6	106	30	.....	.....
Felton (g)	49.8	50.5	51.8	54.5	61.9	62.3	66.7	69.6	63.7	62.0	59.0	56.1	59.0	105	26	.....	.....
Fernando (g)	56.0	52.4	52.4	62.7	64.2	68.0	72.0	73.0	64.7	62.2	55.6	56.2	61.6	100	34	.....	.....
Florence (g)	55.4	52.9	54.0	59.2	66.7	68.1	73.2	73.6	69.3	64.2	60.5	55.6	62.7	89	32	.....	.....
Florin (c)	42.9	48.0	52.8	56.9	62.6	66.6	71.9	72.5	63.0	58.0	50.0	48.0	57.8	105	28	Mar. 14[f]	Oct. 16
Folsom City (a)[4]	(44.0)	(48.0)	54.2	59.2	68.3	74.9	79.9	78.8	67.7	61.0	54.0	49.7	(61.7)	107	.....	.....	Dec. 29[f]
Folsom City (g)[2]	44.4	49.3	54.4	59.0	70.0	76.1	82.8	81.2	69.4	63.7	53.6	50.8	62.9	108	30	.....	.....
Fort Bidwell	27.4	26.4	35.1	40.0	50.3	58.7	67.2	69.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fonts Springs (e)	.....	29.7	31.6	36.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 30[f]	.....
French Corral	(47.0)	(45.0)	(49.0)	51.5	62.8	69.5	76.0	77.7	65.8	60.0	53.0	50.0	(58.9)	100	.....	.....	Nov. 19[f]
*Fresno	42.8	48.4	52.2	55.9	66.9	73.2	80.8	82.0	68.4	60.8	52.8	48.2	61.0	109	28	Mar. 13	Nov. 18
Fresno (g)[2]	44.3	48.2	54.1	58.2	68.7	76.6	84.1	83.9	69.9	63.7	57.0	50.7	63.2	107	28	.....	Oct. 11(f)
Fruto (g)	45.5	48.1	53.0	57.0	69.6	76.6	83.3	81.6	64.3	63.9	56.7	52.5	62.7	106	28	.....	.....
Galt (g)	45.7	49.6	53.6	58.3	68.5	72.7	80.7	79.1	67.0	60.7	54.5	50.7	61.8	106	33	.....	.....
Georgetown	49.2	42.1	44.0	48.4	58.2	66.8	73.4	76.0	61.6	50.0	49.0	46.0	55.9	98	24	Feb. 27	Nov. 17
Gilroy (g)	47.8	49.8	55.1	57.6	62.3	66.9	69.1	67.6	63.1	60.0	53.9	51.0	58.7	106	22	.....	.....
Girard (g)	50.3	42.0	43.2	46.6	60.8	67.0	75.3	76.4	62.8	54.9	46.1	46.9	56.0	95	27	.....	.....
Glen Ellen (g)	44.9	48.3	54.0	55.2	62.7	69.6	71.1	67.6	62.2	58.1	53.2	49.6	58.0	100	29	.....	.....
Goshen (g)	44.9	48.1	51.8	56.4	68.4	75.8	81.2	80.3	70.2	63.9	55.2	50.4	62.2	110	27	.....	.....
Grass Valley	40.4	39.0	42.1	45.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 24[f]	.....
Gridley (a)	(38.0)	(45.0)	48.0	53.2	64.9	73.6	80.0	78.2	65.0	55.0	47.0	42.5	(57.6)	113	22	Mch. 13	Nov. 3
Haywards (g)	44.1	46.3	50.0	52.0	48.6	63.4	64.3	63.8	59.8	55.0	52.0	49.9	54.1	88	28	.....	.....
Healdsburg (a)	.....	.....	.....	52.2	59.4	65.8	67.6	63.3	61.2	50.0	50.0	49.0	.....	98	.....	.....	Nov. 16[f]
Hollister (g)	47.4	48.1	51.6	51.7	58.7	64.3	64.5	61.7	58.5	56.9	54.2	47.7	55.4	101	23	.....	.....
Hornbrook (g)	34.7	36.4	44.5	46.2	58.2	66.2	73.2	76.1	60.9	50.3	42.1	37.5	52.2	102	14	.....	.....
Huron (g)	44.0	47.6	52.3	55.5	69.9	77.9	(85.0)	86.6	65.8	66.0	62.0	49.2	(63.5)	112	25	.....	.....
Hydesville	44.4	44.1	46.8	48.4	51.4	54.6	58.0	58.8	57.0	53.0	50.0	46.0	51.0	89	25	Feb. 1	Nov. 17

[1] G. F. Weeks. [2] Southern Pacific Co. [3] A. C. Hillman. [4] J. H. Sturgis.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
California—Continued.																	
Independence	44.9	43.1	46.6	53.4	63.7	73.6	74.8	77.0	65.2	58.0	48.0	44.0	57.7	101	18	Apr. 14†	.....
Indio (*g*)	61.5	61.7	60.7	68.9	79.5	91.9	94.8	94.2	87.4	72.4	60.8	57.7	74.2	116	30	Apr. 14†	.....
Ione (*g*)	45.9	47.7	53.9	56.6	67.8	71.5	80.2	78.4	65.2	60.2	53.7	48.5	60.8	106	26	.....	.....
Iowa Hill (*a*)	50.0	43.4	45.1	49.3	60.3	68.1	74.8	77.0	62.9	57.0	51.0	49.0	57.3	98	28	Jan. 31	Nov. 17
Irvington	.....	.....	54.0	54.8	60.8	61.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jackson	.....	.....	.....	.....	.....	65.0	73.8	64.9	59.4	53.0	48.0	44.0	.....	.....	.....	.....	Nov. 16
Julian	50.1	44.8	42.8	50.2	58.4	68.8	74.0	74.6	60.5	57.0	49.0	51.0	56.8	98	19	Apr. 11†	Nov. 18
*Keeler	43.1	44.3	48.0	55.0	65.2	75.6	79.5	81.2	69.1	60.0	48.8	44.6	59.5	101	23	Apr. 13	Dec. 11
Keeler (*g*)[1]	43.3	44.4	47.8	56.2	66.7	77.6	77.6	82.8	70.4	60.8	49.8	44.5	60.1	98	27	.....	.....
Keene (*g*)	50.0	42.1	45.4	50.6	61.4	69.8	75.9	78.5	62.6	54.8	46.7	47.7	57.1	100	24	.....	.....
Kennedy Gold Mine (*a*)	42.7	42.3	45.2	49.8	59.1	65.0	73.4	73.9	61.4	56.0	50.0	46.0	55.4	104	24	Feb. 28	Dec. 27†
Kings City (*g*)	(49.0)	(48.0)	54.1	53.8	57.5	61.5	65.9	65.0	61.7	57.4	52.1	50.7	(56.4)	104	22	.....	.....
Kingsburg (*g*)	46.5	49.3	53.9	61.0	71.8	80.4	85.3	83.6	72.6	65.3	53.6	48.9	64.4	110	30	.....	.....
Knights Landing (*g*)	47.9	48.9	53.7	57.5	70.1	79.0	77.9	78.5	67.6	62.4	56.5	54.4	62.9	107	32	.....	.....
Kono Tayee	44.0	46.2	46.6	52.4	61.2	67.0	74.2	76.8	64.7	58.0	53.0	48.0	57.6	.....	.....	Mar. 13†	.....
La Grange (*e*)	47.7	46.8	52.9	55.9	66.3	72.9	82.4	83.0	69.8	63.0	55.0	50.0	62.3	110	31	Feb. 1†	.....
Lathrop (*g*)	46.0	49.6	54.6	59.2	68.2	72.9	78.0	77.1	67.0	58.6	54.6	49.3	61.3	102	31	.....	.....
Laurel (*g*)	50.2	47.7	49.7	52.3	62.3	65.9	68.4	67.1	60.8	56.7	53.6	51.3	57.2	102	31	.....	.....
Lemoore[2]	44.8	50.3	53.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 12	.....
Lemoore (*g*)[1]	44.8	49.2	54.6	58.8	70.7	77.8	83.5	83.6	69.1	61.1	51.4	48.1	62.7	108	28	.....	.....
Lick Observatory	.....	37.7	37.3	40.5	51.9	56.8	67.9	71.8	55.4	51.0	47.0	45.0	.....	.....	.....	Apr. 28†	.....
Livermore (*g*)	44.3	49.1	50.2	54.8	60.8	64.3	70.2	68.9	61.6	59.2	54.3	51.8	57.5	100	29	.....	.....
Livingston (*g*)	48.4	49.8	54.7	61.2	73.1	78.4	83.9	82.8	72.3	64.9	58.3	52.0	65.0	110	35	.....	.....
Lodi	44.2	48.0	53.0	55.8	63.2	68.1	73.4	72.6	64.4	59.0	53.0	49.0	58.6	100	30	Feb. 27	Oct. 17
Long Beach (*g*)	56.0	52.9	52.2	57.9	63.0	65.9	66.6	67.0	64.3	62.9	54.6	54.0	59.8	94	32	.....	.....
*Los Angeles	57.2	55.0	53.5	57.8	62.6	66.1	69.6	71.4	66.1	63.4	57.3	57.9	61.5	92	31	.....	None.
Los Angeles (*g*)[1]	54.6	54.2	55.4	.....	66.0	71.3	73.2	70.2	67.3	62.8	55.0	55.2	.....	100	31	.....	.....
Los Banos (*g*)	54.7	49.7	52.2	59.6	65.5	69.0	73.1	71.5	76.3	59.3	51.9	49.5	61.0	106	26	.....	.....
Los Gatos (*g*)[1]	46.7	49.1	52.3	59.6	64.6	69.3	71.0	71.1	66.0	58.1	54.7	50.5	60.0	100	28	.....	Dec. 28†
Los Gatos[3]	44.4	46.5	49.1	51.0	58.4	60.6	65.6	64.8	59.6	58.0	54.0	50.0	55.2	93	28	Feb. 7	Dec. 28†
Mammoth Tank (*g*)	57.1	56.7	61.5	75.6	84.3	97.1	99.0	96.0	83.8	74.7	60.1	56.6	75.2	115	32	.....	.....
Mariposa (*a*)	49.0	47.0	45.4	51.5	62.1	72.3	79.4	80.2	65.0	56.0	49.0	45.0	58.5	104	25	Mar. 13†	Nov. 18†
Martinez (*g*)	41.5	48.1	50.3	53.8	57.1	59.6	61.6	60.2	57.7	54.3	51.9	49.1	53.8	92	28	.....	.....
Marysville (*g*)	42.4	47.8	49.6	58.8	69.3	76.4	76.8	81.4	64.0	59.8	58.5	52.8	61.5	115	30	.....	.....
Menlo Park (*g*)	47.5	49.1	51.5	52.8	57.2	63.1	66.2	66.9	61.1	58.1	54.4	50.9	56.6	96	30	.....	.....
Merced (*g*)	44.9	48.7	52.8	58.8	67.6	73.0	79.5	80.9	68.1	60.4	56.0	47.8	61.5	109	30	.....	.....
Middletown (*a*)	(42.0)	44.9	49.0	53.0	62.2	68.2	74.9	74.8	62.2	56.0	52.0	47.0	(57.2)	104	25	Mar. 2†	Nov. 2†
Milton (near) (*a*)	43.6	47.7	52.7	55.9	64.5	71.1	77.8	77.8	67.4	63.0	55.0	50.0	60.5	104	32	Feb. 1	.....
Modesto (*g*)	44.5	47.9	50.2	62.4	71.6	77.5	85.6	83.2	73.4	62.7	61.1	51.4	65.0	106	31	.....	.....
Mohave (*g*)	50.7	48.2	50.4	54.7	70.4	76.6	87.6	83.4	69.2	60.3	52.4	48.3	62.8	105	28	.....	.....
Mokelumne Hill (*c*)	(40.0)	(43.0)	45.6	50.1	62.4	70.0	77.6	78.2	62.8	55.0	50.0	45.0	(56.6)	92	.....	Apr. 7	Dec. 15
Monson (*g*)	45.4	49.3	53.6	59.4	72.9	81.3	86.6	85.0	71.8	61.9	51.4	47.2	63.8	106	29	.....	.....
Montague (*g*)	36.5	39.3	47.2	46.3	58.7	(68.0)	81.1	79.9	64.0	55.0	46.3	40.0	55.2	101	17	.....	.....
Monterey (*g*)	50.1	51.7	53.5	48.9	56.8	56.9	59.4	61.1	55.3	56.4	54.8	50.4	54.6	80	28	.....	.....
Monterey (Hotel del Monte) (*g*)	49.4	50.3	.....	55.4	59.7	59.7	59.5	60.7	60.8	55.4	54.7	52.6	.....	85	31	.....	.....
Mount Glenwood	(42.0)	54.2	(53.2)	57.6	69.0	75.5	81.9	81.5	70.2	64.0	57.0	51.0	(63.1)	106	32	.....	Dec. 30†
Napa[4] (*g*)	45.3	49.1	51.9	56.0	62.9	66.0	69.2	64.0	60.7	56.3	51.8	50.9	56.9	98	26	.....	Dec. 29†
Napa[4] (*a*)	45.4	51.8	51.9	54.4	61.4	64.9	66.4	64.7	61.9	58.0	54.0	50.7	57.1	92	31	Jan. 21	Dec. 29
National City (*a*)	57.3	54.4	54.6	58.0	61.8	64.2	68.4	71.0	65.1	64.0	58.0	58.0	61.2	95	33	.....	Nov. 2†
Needles (*b*)[5]	56.1	54.4	59.5	67.8	79.6	87.2	91.2	.....	.....	.....	.....	.....	.....	112	.....	.....	.....
Needles[6]	58.2	57.8	62.5	69.6	78.6	88.9	93.6	93.5	81.2	70.0	58.0	55.0	72.2	111	30	Jan. 19†	None.
New Almaden (*g*)	47.5	50.0	52.7	54.8	61.1	(65.0)	67.5	68.1	62.9	59.5	55.7	52.1	(58.1)	94	32	.....	.....
Newark (*g*)	52.8	55.7	55.8	53.8	(60.0)	68.7	70.7	67.1	64.8	63.2	58.1	48.4	(60.0)	95	30	.....	.....
Newcastle[7]	40.6	44.3	48.7	52.0	61.8	69.8	77.6	78.4	64.4	59.0	52.0	48.0	58.0	104	26	Mar. 13†	Dec. 23†
Newcastle (*g*)[1]	41.1	45.3	49.0	(52.0)	65.1	73.3	84.1	84.5	67.7	60.3	51.6	47.9	(60.2)	.....	.....	.....	.....
Newhall (*g*)	50.7	50.8	52.0	57.8	64.7	73.4	77.1	77.5	68.1	61.1	53.7	52.3	61.6	108	25	.....	.....
Newman (*g*)	51.2	56.0	55.5	60.8	72.3	79.9	86.9	84.3	69.5	61.0	55.6	51.7	65.2	109	32	.....	.....
Nevada City	40.8	39.0	43.2	46.8	55.5	60.9	66.5	67.6	57.2	52.0	46.0	44.0	51.6	94	22	Apr. 18†	.....
Niles (*g*)	44.1	48.4	51.6	53.8	59.9	64.9	66.8	63.3	61.3	55.5	53.9	47.1	55.9	92	28	.....	.....
Nordhoff	51.8	50.3	49.6	54.4	60.0	66.0	69.7	70.6	62.1	59.0	54.0	53.0	58.4	100	25	Apr. 8†	Nov. 18
Norwalk (*g*)	55.3	56.3	58.8	64.4	67.4	69.1	72.7	70.8	67.2	62.9	58.0	56.2	63.3	95	32	.....	.....
Oakdale (*d*)	40.6	43.8	48.5	52.0	63.8	71.2	77.6	77.5	64.5	63.0	48.0	44.6	57.9	108	24	Mar. 13†	Oct. 14†
Oakland[8]	42.3	48.7	50.9	54.4	57.7	62.3	62.0	61.3	61.8	58.0	54.0	51.0	55.4	91	32	.....	.....
Oakland (*g*)	48.6	51.1	53.9	55.6	61.4	63.6	62.6	61.3	61.5	58.3	56.5	47.8	56.8	80	31	.....	.....
Ogilby (*g*)	63.7	60.1	78.4	81.1	83.4	100.2	102.4	97.1	83.2	71.7	63.6	56.3	78.4	118	39	.....	.....
Oleta (*a*)	44.3	42.1	45.5	49.1	60.0	63.0	72.0	71.0	60.0	54.0	48.0	45.0	54.5	99	27	Feb. 27	Nov. 18
Ontario (*g*)	54.7	55.0	52.4	63.5	69.0	73.8	76.2	77.5	75.1	65.8	58.4	56.1	64.8	99	35	.....	.....
Orangevale	43.4	47.3	51.8	56.2	65.3	72.8	78.4	77.4	66.3	60.0	53.0	48.0	60.0	107	28	Feb. 27	Oct. 17
Orland (*g*)	43.2	48.5	52.1	58.5	71.0	77.7	80.9	80.2	76.2	67.2	57.2	53.1	65.3	115	30	.....	.....
Oroville[9]	.....	.....	57.4	63.8	73.2	77.3	.....	.....	77.2	68.0	58.0	52.0	.....	.....	.....	.....	Dec. 28†
Oroville (*g*)[1]	43.9	50.8	53.2	55.9	68.2	75.6	75.5	80.9	71.2	68.6	60.0	52.8	63.0	104	31	.....	.....
Pajaro (*g*)	52.5	51.2	53.4	53.4	54.6	.....	62.9	58.0	62.7	59.0	55.9	.....	.....	.....	.....	.....	.....
Palermo	40.2	46.6	50.4	54.4	63.8	73.0	79.3	77.7	66.1	58.0	51.0	47.0	59.0	109	25	Apr. 14†	Oct. 17†
Palm Springs (*g*)	59.6	59.6	63.3	72.0	80.3	94.6	95.7	97.0	85.0	75.8	63.1	58.7	75.4	117	36	.....	.....
Pasadena	56.2	51.6	51.0	56.3	58.9	62.5	(67.0)	70.6	63.6	60.0	54.0	54.0	(58.8)	95	30	Mar. 12†	Dec. 29
Paso Robles (*g*)	43.9	46.6	45.6	56.0	65.1	70.7	74.8	72.8	62.8	54.4	48.9	47.8	57.4	107	20	.....	.....
Petaluma (*a*)	45.6	51.7	52.5	54.9	61.9	64.2	64.2	64.0	62.2	58.0	54.0	51.0	57.0	98	31	Feb. 6†	Nov. 19†
Placerville (*a*)[10]	40.8	39.4	45.4	46.9	57.0	64.9	73.2	72.5	58.6	51.0	46.0	43.0	53.2	98	22	Apr. 25†	Oct. 30
Placerville (*g*)[1]	46.6	45.3	48.5	51.6	60.9	66.2	70.9	71.8	54.8	55.3	49.9	48.0	55.8	102	28	.....	Oct. 30
Pleasanton (*g*)[1]	49.3	49.9	51.6	57.8	63.3	66.8	68.6	67.6	61.7	54.5	54.2	50.9	58.0	105	26	.....	Sept. 21
Pleasanton[11]	44.0	47.1	50.5	51.8	60.2	62.8	68.0	68.0	59.6	54.6	51.0	48.0	55.4	101	23	Apr. 24†	Sept. 21
Point Lobos	46.8	48.7	50.0	51.7	54.2	53.8	54.8	54.9	57.2	55.0	54.0	50.0	52.6	75	33	.....	.....
Pomona (*g*)	50.6	50.0	53.5	54.8	61.6	71.2	72.0	73.0	59.2	60.2	56.9	52.8	59.6	100	30	Mar. 13†	Dec. 28
Portersville (*g*)	47.9	51.7	56.4	61.5	76.1	81.0	89.6	88.0	72.6	63.3	54.4	50.8	66.1	108	31	.....	.....

[1] Southern Pacific Railroad.
[2] M. Lovelace.
[3] F. H. McCullagh.
[4] W. H. Martin.
[5] L. D. Palmer.
[6] H. P. Aldrich.
[7] C. H. Kellogg.
[8] Chabot Observatory.
[9] L. C. Jacobs.
[10] G. W. Barlow.
[11] A. G. Platt.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
California—Continued.																	
Port Los Angeles (*g*)							70.2	67.6	66.6	64.5	58.3	57.8					
Poway (e)	(53.0)	(50.0)	49.7	53.6	59.1	64.4	66.4	68.6	61.6	56.0	48.0	48.0	(56.5)	78	31		Dec. 30†
Puente (*g*)	54.0	52.7	54.3	60.0	66.5	70.4	72.6	73.8	68.6	64.9	58.5	56.4	62.7	99	34		
Point Reyes Light	49.6	47.0	49.0	48.8	51.2	52.8	53.8	54.2	56.8	54.3	52.9	51.6	51.8	82	37	None	None.
Ravenna (*g*)	55.5	50.1	49.2	55.3	67.3	73.1	79.6	80.1	67.8	59.8	52.8	51.4	70.2	107	29		
*Red Bluff	43.2	46.8	49.8	54.6	65.8	73.4	80.4	81.0	67.5	61.4	53.5	50.2	60.6	106	27	Feb. 28	Nov. 19
Red Bluff (*g*)[1]	46.5	47.7	52.2	58.8	61.9	69.7	85.8	87.7	68.7	62.7	51.4	48.4	62.6	108	33		
Redding (*g*)[1]	42.4	44.0	49.3	54.5	60.1	67.3	83.2	82.3	71.5	60.2	55.1	49.8	61.6	110	26		Oct. 16
Redding[2]	43.5	45.2	49.2	53.0	63.8	72.0	79.8	80.4	66.3	60.0	53.0	50.0	59.7	104	27	Feb. 13	Oct. 16
Redlands (*g*)[1]	54.2	50.7	51.9	58.7	66.0	73.1	77.0	77.5	68.4	62.2	44.0	53.6	61.4	103	34		
Represa (*a*)	(40.0)	(44.0)	(50.2	54.2	63.0	70.6	80.4	79.4	66.2	61.0	52.0	48.0	(58.6)	99	31		Dec. 28†
Rialto	59.7	55.5	54.0	60.6	65.4											Mar. 10†	
Rio Vista				49.7	64.4	69.4	78.0	74.6	67.2	60.0	55.0	49.0		105			Nov. 19†
Riverside	52.5	50.4	51.5	60.7	64.9	70.8	74.8	75.7	65.5	62.0	54.0	54.0	61.4	104	30	Mar. 13†	Nov. 19†
Rocklin (*g*)	48.5	50.7	55.9	59.5	69.7	74.4	81.0	79.6	70.2	64.9	57.6	53.1	63.8	108	26		
Rumsey (*g*)	45.5	49.1	53.5	58.9	72.5	79.1	83.7	84.8									
*Sacramento	42.1	48.3	52.0	55.7	63.7	68.5	74.0	74.1	65.4	60.2	53.6	48.6	58.8	103	28	Feb. 27	Nov. 19
Sacramento (*g*)	44.4	49.6	54.5	57.7	66.1	70.0	73.9	74.7	65.0	58.9	53.6	49.2	59.8	98	30		Nov. 19
Sacramento (*g*)[1]	45.2	49.4	55.0	59.0	66.2	70.6	75.3	77.8	65.1	59.8	55.1	50.1	60.7	95	34		
Sacramento (*a*)[3]	38.8	43.0	47.7	51.8	60.0	64.8	68.9	66.6	57.9	51.4	46.4	42.6	53.3	94	24	Feb. 27	Nov. 3
Salinas (*g*)[1]	47.1	45.1	47.7	50.0	61.2	64.6	63.9	64.8	63.1	56.6	56.9	49.7	55.9	80	32		
Salinas[4]	50.4	49.2	51.1	51.6												Apr. 13	
Salton (*g*)	56.4	60.7	66.1	77.5	79.2	95.9	98.7	98.9	90.7	79.4	70.7	66.3	78.5	119	32		
San Ardo (*g*)[1]	49.8	49.0	52.0	54.6	60.5	64.2	67.9	67.5	60.6	54.2	49.2	48.0	56.5	110	29		Nov. 18
San Ardo[5]	51.0	47.4	49.6	52.0	61.2	64.8	70.2	70.6	63.4	60.0	56.0	54.0	58.4	111	26	Apr. 13	Nov. 18
San Bernardino	53.9	52.6	53.8	58.8	64.1	71.0	72.3	75.6	67.0	61.0	54.0	52.0	61.3	100	30	Mar. 10†	Nov. 12†
*San Diego	57.4	54.4	54.2	57.5	61.0	63.4	67.4	70.0	64.6	62.7	57.6	57.4	60.6	88	38	None.	None.
*San Francisco	47.4	50.3	51.2	52.4	55.8	56.5	56.6	56.6	59.3	57.6	55.6	52.4	54.3	90	36	None.	None.
San Gabriel (*g*)	55.1	54.9	56.3	60.6	67.2	73.1	(75.0)	75.9	69.0	64.5	56.6	53.7	(63.5)		34		
Sanger Junction (*g*)	44.3	48.9	53.3	61.2	71.8	78.8	88.4	87.3	72.9	62.8	52.0	47.5	64.1	115	27		
San Jacinto	53.9	51.3	51.6	57.4	64.0	70.0	73.6	76.0	65.9	59.0	53.0	53.0	60.7	103	25	Apr. 13	Nov. 11
San Jose (*g*)[1]	47.7	50.0	53.1	54.4	58.7	61.1	65.8	65.7	62.0	58.6	55.5	52.3	57.1	94	30		Oct. 11
San Jose[6]	44.6	48.1	52.3	51.1	57.9	58.9	63.3	63.2	58.8	55.0	52.0	48.0	54.4	92	22	Apr. 13	Oct. 11
San Mateo (*g*)	47.9	49.1	54.4	56.0	62.6	65.3	69.0	65.5	63.1	59.3	55.3	53.0	58.4	94	35		
San Miguel (*g*)	45.4	48.5	51.2	54.4	64.1	70.3	78.7	76.9	63.7	58.0	50.4	49.3	59.2	105	26		
San Pedro (*g*)	56.4	56.3	56.6	61.2	60.3	68.8	71.2	73.8	72.5	66.2	59.7	59.2	64.0	94	40		
Santa Ana (*g*)	57.8	56.9	60.0	63.9	75.0	70.6	70.4	77.3	70.6	65.5	60.4	56.8	65.4	97	40		
Santa Barbara (*g*)[1]	56.0	55.9	56.2	(57.0)	64.3	68.2	68.4	68.4	66.0	61.8	58.7	57.0	(61.5)	92	44		
Santa Barbara[7]	55.7	53.4	53.1	57.0	59.2	62.2	64.3	66.1	62.7	62.0	57.0	58.0	59.2	88	38		
Santa Clara (*f*)[8]	46.4	49.6	51.2	52.8	58.8	60.5	64.1	64.3	60.6	51.0	50.0	51.5	55.0	92	29		Nov. 20†
Santa Clara[9]							65.8	68.2	66.4								
Santa Cruz (*g*)[1]	54.0	54.5	56.8	57.7	55.8	57.9	57.9	59.5	59.4	57.6	54.5	53.4	56.6	83	35	Feb. 28	None.
Santa Cruz[10]	50.2	49.4	51.9	54.6	58.5	60.5	62.6	63.1	60.8	58.0	56.0	54.0	56.6	87	33		
Santa Margarita (*g*)	43.1	46.9	46.0	54.0	60.0	66.0	70.2	75.7	68.6	61.7	51.0	47.0	57.6	103	20		
Santa Maria (*a*)	53.2	51.4	52.7	53.6	56.2	59.2	60.3	60.4	58.0	59.0	55.0	51.0	56.1	88	31	Mar. 10	
Santa Monica (*g*)	56.1	52.4	53.9	60.9	64.2	68.6	69.9	69.8	61.2	58.5	55.5	53.9	60.4	88	35		
Santa Paula (*g*)	53.3	52.6	51.3	60.2	64.8	65.9	70.0	67.3	64.2	61.8	57.6	57.1	60.6	95	32		
Santa Rosa (*g*)	45.3	49.6	52.1	53.7	63.8	67.2	71.2	65.5	62.4	58.9	56.9	50.1	58.0	94	30		
Selma (*g*)	44.9	48.1	53.6	58.5	71.4	78.7	83.3	85.5	71.0	62.2	53.0	48.7	63.2	108	30		
Shasta Springs	40.0	36.1	39.9	44.3	52.0	60.8	65.1	65.8	55.2	50.0	44.0	39.0	49.4	92	8	May 6†	Oct. 9†
Shingle Springs (*g*)	46.6	45.1	52.5	56.5	64.0	70.7	70.7	73.7	57.6	51.2	49.4	45.9	57.0	105	28		
Sims (*g*)	40.1	36.7	42.8	46.7	57.3	63.1	68.9	71.3				40.8					
Sisson (*g*)	38.0	35.2	38.7		52.3	60.6	65.4	65.6	52.2	46.4	41.3	38.2		95	6		
Soledad (*g*)	50.3	49.2	51.3	54.1	61.7	62.9	63.6	62.3	61.0	57.1	53.9	51.7	56.6	98	30		
Sonoma (*f*)	44.8	50.5	48.4	50.9	57.1	59.8	62.8	60.7	56.8	54.0	55.0	47.0	53.6	93	30	Feb. 7†	Nov. 19†
South Vallejo (*g*)	45.2	50.4	56.6	55.4	62.8		63.7	60.8	58.7	56.4	53.8	51.4		86	27		
Spadra (*g*)	52.3	53.3	52.2	59.4	66.7	70.8	73.8	75.0	67.7	62.2	56.4	57.0	62.2	99	32		
Stockton (*g*)[1]	47.7	47.6	56.6	59.5	68.0	80.7	83.6	80.0	69.8	62.5	56.7	49.3	63.5	100	33		Nov. 20†
Stockton[11]	42.5	47.8	52.6	55.6	64.2	68.4	74.3	73.4	64.7	58.0	53.0	48.0	58.5	100	30	Feb. 1†	
Suisun City (*g*)	45.5	50.9	53.9	57.4	64.2	68.2		70.1	65.8	62.3	55.4	51.6		97	32		
Summit (*g*)	32.3		27.7	36.4	40.1	55.0		67.2	51.3	45.5	35.4	31.2		79	5		
Susanville (*a*)	29.9	29.6	38.4	42.0	54.4	62.9	71.0	71.6	56.4	47.0	41.0	38.0	48.5	94	3	Apr. 15†	Sept. 11
Sutter Creek (*e*)	39.4	40.0	43.6	45.6	56.0	63.6	71.2	72.2	59.8	53.0	46.0	41.0	52.7	100	24	May 30†	Oct. 16†
Tehachapi[12]	45.9	40.1	40.2	44.9	54.5	63.4	69.2	72.4	58.1	51.0	45.0	42.0	52.2	97	10	May 22	Sept. 14
Tehachapi (*g*)[1]	44.8	39.6	38.4	44.9	57.7	69.1		72.0	62.6	52.2	44.1	40.1		93	20		Sept. 14
Tehama (*g*)	49.6	50.8	52.5	58.0	65.6	76.8	80.0	83.6	72.2	69.8	62.6	59.2	65.1	106	32		
Templeton (*g*)	46.5	48.8	53.4	55.8	63.9	71.7	72.7	71.9	62.8	56.3	50.0	48.2	58.5	112	20		
Towles (*g*)	46.9	39.8	41.0	46.0	59.1	65.3	69.8	69.8	59.2	53.4	47.7	44.9	53.6	93	19		
Tracy (*g*)	46.7	49.2	53.3	59.3	72.3	77.0	79.8	78.4	67.8	61.5	54.8	49.0	62.4	103	20		
Traver (*e*)	44.1	46.2		59.1	69.8	79.2	87.4	87.7	75.0	69.0	57.4	50.0		107	28		
Tropico (*g*)	55.6	54.1	54.4	57.7	64.0	66.8	69.9	71.0	66.1	64.4	57.0	55.1	61.3	92	30		
Truckee (*g*)	28.4	25.1	30.4	34.9	45.4	57.0	61.4	60.2	50.5	47.3	37.2	28.5	42.7	90	−10		
Tulare (*a*)[13]	45.5	50.8	54.6	59.2	68.6	74.9	82.2	82.8	70.0	63.0	55.0	51.0	63.2	114	24	Feb. 28	Nov. 18
Tulare (*g*)[1]	44.1	48.3	52.2	48.7	70.2	77.9	85.1	85.3	72.8	59.8	49.9	47.3	61.8	107	30		Nov. 18
Turlock[14]	42.0	45.8	48.5	51.0	60.4	66.3	73.8	72.7	60.5	52.0	46.0	40.6	55.0	105	19	Feb. 28	Oct. 17
Turlock (*g*)[1]	45.8	50.1	56.1	64.0	78.4	79.0	82.7	84.4	72.1	65.5	57.0	52.2	65.8	108	32		Oct. 17
Ukiah	43.6	43.8	45.8	49.4	58.0	62.3	68.6	70.2	60.2	53.0	50.0	46.0	54.2	99	24	Feb. 27	Nov. 18
Upper Lake	45.7	44.7	47.6	50.1	59.2	65.0	72.2	75.0	61.8	57.0	50.6	45.4	56.2	105	26	Feb. 27	Oct. 17†
Upper Mattole (*a*)	47.7	45.8	49.4	50.6	55.8	60.2	64.4	67.4	59.8	57.0	55.0	49.0	55.2	96	29	Feb. 1†	Nov. 15
Vacaville (*a*)[15]	43.6	49.3	52.9	56.4	66.0	71.2	76.8	76.5	66.7	62.0	54.0	51.0	60.5	108	30	Feb. 6	Nov. 19
Vacaville (*g*)[1]	45.2	49.6	53.3	60.2	67.3	72.8	77.7	77.6	67.7	61.1	55.8	51.8	61.7	108	30		Nov. 19

[1] Southern Pacific Railroad.
[2] L. F. Bassett.
[3] S. H. Gerrish.
[4] Dr. E. K. Abbott.
[5] M. Gorman.
[6] Dr. A. C. Simonton.
[7] H. D. Vail.
[8] A. Block.
[9] Dr. A. Fonch.
[10] W. R. Springer.
[11] T. G. Brown.
[12] A. Young.
[13] J. Farrer.
[14] P. R. McCabe.
[15] G. O. Coburn.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
California—Continued.																	
Valley Springs (g)	46.0	50.2	53.6	58.7	67.9	75.5	82.7	81.5	69.2	63.4	55.9	49.6	62.8	103	32	.....	.....
Ventura	57.7	58.6	54.9	58.5	61.2	62.6	65.1	66.2	61.4	61.0	57.0	57.0	59.8	91	28	.....	.....
Vina (g)	42.6	48.2	51.9	57.1	67.3	76.7	.....	80.4	68.2	64.6	55.3	50.9	.....	107	20	.....	.....
Volcano Springs (g)	50.6	63.2	.....	79.6	88.1	104.8	105.2	103.0	89.8	74.5	62.4	59.7	.....	122	30	.....	.....
Walnut Creek	45.7	49.0	49.9	55.1	64.0	66.9	73.2	72.8	66.2	60.0	54.0	50.0	58.7	104	30	Mar. 14†	Dec. 28†
West Butte	.....	.....	.....	.....	.....	.....	.....	.....	.....	61.0	49.0	50.0	.....	.....	.....	.....	.....
Westley (g)	44.1	48.3	55.0	60.5	71.4	76.7	86.3	80.7	69.1	63.4	57.3	51.6	63.7	106	31	.....	.....
Wheatland	41.8	46.9	51.3	55.4	64.4	71.0	77.2	77.7	66.6	60.0	52.0	48.0	59.4	109	26	Feb. 27	Nov. 19
Whittier (g)	60.7	60.7	59.0	61.7	68.1	76.0	77.7	75.6	70.5	65.5	62.1	60.6	66.5	98	37	.....	.....
Williams (g)[1]	44.7	49.2	52.9	58.0	69.0	76.3	82.2	80.1	68.5	61.5	54.8	50.6	62.3	108	30	Apr. 13†	.....
Williams[2]	39.0	49.2	49.8	56.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Willows[3]	41.0	45.9	49.8	54.4	67.4	71.2	79.6	77.4	63.6	58.0	51.0	47.0	58.9	106	26	Feb. 6	Nov. 16
Willows (g)[4]	43.2	46.9	51.4	58.0	68.2	78.6	85.9	83.5	71.5	63.3	54.4	51.4	63.0	105	30	.....	Nov. 16
Winchester	53.8	52.5	53.5	58.1	65.4	72.5	76.8	(78.0)	70.1	62.0	54.0	53.0	(62.5)	109	25	Mar. 13†	Nov. 11†
Winters (g)	44.0	50.6	54.9	61.1	71.1	80.3	89.9	83.7	72.4	64.8	56.6	53.2	65.2	109	29	.....	.....
Woodland (g)	43.4	47.6	53.1	55.6	62.0	72.5	78.7	75.8	65.0	59.6	52.8	50.5	59.7	108	30	.....	.....
Yreka	32.7	34.4	41.6	43.8	54.6	61.1	68.1	70.4	57.6	48.0	42.0	37.0	49.2	98	10	May 20†	Oct. 10†
Yuba City (g)	46.0	47.5	55.1	59.8	69.8	79.4	81.4	81.4	70.0	62.0	55.0	54.0	63.4	104	35	.....	None.
Colorado.																	
Agate (c)	.....	26.9	33.0	40.5	48.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	June 4	.....
Akron (a)	.....	.....	.....	.....	.....	70.8	72.6	70.0	62.8	48.4	38.4	28.3	.....	100	.....	.....	Sept. 27
Alma¶	20.8	16.0	19.8	27.3	36.7	48.7	52.1	49.2	44.4	35.3	24.1	20.0	32.8	78	−15	June 30†	Sept. 27
Bennett (a)	32.9	29.5	39.1	51.4	61.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 30	.....
Boulder (a)	.....	.....	.....	.....	.....	.....	.....	.....	.....	51.7	39.4	38.8	.....	.....	.....	.....	Oct. 6
Breckenridge¶	15.4	11.5	19.4	26.1	36.8	49.4	53.6	50.8	47.6	36.8	22.2	19.0	32.2	84	−20	June 30	Sept. 28
Brush	(34.0)	(29.0)	35.2	46.0	55.0	70.2	75.4	71.5	61.0	49.2	35.9	29.4	(49.3)	104	.....	May 4	Sept. 21
Byers (a)	40.0	33.5	40.9	46.5	55.9	77.0	79.5	75.2	68.4	55.3	39.8	26.2	53.2	100	1	May 7	Nov. 14
Canyon	.....	.....	.....	47.3	58.1	69.1	74.1	70.6	62.2	53.1	41.6	39.2	.....	98	.....	May 7	Sept. 27
Castle Rock	31.6	27.9	35.6	42.6	54.2	65.6	69.6	66.8	61.0	47.4	34.2	34.0	47.5	94	−3	June 5	Sept. 22
Cheyenne Wells (a)	27.3	26.4	35.7	46.3	53.9	67.8	73.5	72.3	62.2	48.8	35.8	32.2	48.5	102	−4	May 22	Oct. 8
Climax (a)	12.1	8.9	11.8	19.9	30.3	.....	.....	.....	31.2	26.0	14.9	13.8	.....	.....	−9	May 29†	Oct. 27
Colorado Springs	34.9	28.9	36.4	42.7	51.6	64.1	68.4	64.1	60.0	48.4	36.0	33.9	47.5	93	−3	May 23	Oct. 2
Como (near) (a)	21.0	15.1	21.5	28.7	39.6	53.2	56.1	52.2	48.9	37.0	27.5	21.6	35.2	78	−7	June 6	Sept. 9
Cope	37.1	28.8	36.9	48.8	55.5	71.0	(75.0)	70.6	64.6	51.2	37.2	35.8	(51.0)	.....	−11	May 22	Sept. 25
Cumbres	18.6	17.0	20.6	27.6	38.2	50.6	.....	.....	.....	.....	.....	.....	.....	.....	−11	June 29†	.....
Deer Trail (a)	33.9	28.8	33.6	42.8	54.1	74.5	80.8	73.2	68.7	53.6	38.5	33.9	51.3	95	Zero.	May 6	Oct. 2
Delta	23.9	29.9	38.7	49.4	57.6	67.8	74.6	71.0	60.8	48.0	36.4	32.2	49.2	103	−10	June 4	Sept. 29
Denver	28.3	31.4	38.0	45.1	54.3	68.6	73.4	70.0	63.4	51.4	39.0	38.2	50.9	96	−2	June 6	Oct. 26
Divide Exp. Station	27.9	23.8	32.4	(38.0)	(48.0)	61.4	64.7	60.4	55.2	45.5	31.7	30.2	(43.3)	90	−4	June 5	Sept. 21
Downing	32.0	30.5	39.4	50.6	61.6	73.8	75.6	71.0	(64.0)	50.0	41.1	37.0	(52.2)	98	−8	May 23	Oct. 2
Dumont	29.2	31.9	29.0	35.2	48.4	60.0	64.4	61.1	56.9	45.1	33.8	31.0	43.0	88	−5	June 6	Sept. 23
First View (f)	35.2	31.2	38.3	49.2	57.8	71.2	72.2	70.6	68.9	54.0	39.3	35.8	51.9	102	−4	May 6	Oct. 11
Fort Collins	32.6	26.9	35.2	42.7	52.3	65.3	70.7	66.8	60.0	48.7	33.6	33.6	47.4	95	−13	June 5	Sept. 23
Fruita (a)	21.6	29.8	39.8	50.8	61.6	73.2	78.2	73.5	63.8	.....	.....	.....	.....	.....	.....	Apr. 19	.....
Georgetown	28.6	23.2	27.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Glen Eyrie	35.6	30.0	36.9	42.6	52.5	65.2	68.2	63.1	59.6	48.0	37.1	34.6	47.8	91	Zero.	May 23	Oct. 11
Glenwood Springs (a)	.....	.....	.....	.....	.....	.....	.....	.....	61.6	49.2	37.8	32.8	.....	.....	.....	.....	Oct. 1
Gold Hill (e)	28.6	24.4	30.4	36.0	46.8	64.2	68.2	65.5	60.0	49.6	35.2	32.0	45.1	89	−4	May 3	Oct. 1
Grand Junction	33.7	32.7	42.4	51.4	60.6	72.8	78.4	74.3	66.6	52.3	37.5	34.4	52.7	98	−2	Apr. 15	Oct. 26
Greeley	34.6	(29.6	37.0	44.2	(54.0)	71.6	74.2	(69.0)	60.9	49.8	36.2	33.4	(49.6)	98	−11	May 6	Oct. 1
Greenhorn	33.1	27.2	38.0	44.0	54.8	65.3	68.8	62.0	.....	.....	.....	.....	.....	94	.....	May 1	.....
Grover	.....	24.8	32.8	42.4	50.9	62.9	67.8	64.8	.....	.....	.....	.....	.....	96	.....	June 6	.....
Gunnison	.....	.....	.....	.....	.....	.....	62.0	60.2	50.4	38.2	22.9	16.6	.....	.....	.....	.....	Sept. 30†
Hugo (c)	32.5	25.8	34.6	43.0	58.8	70.2	74.9	68.5	62.3	48.8	34.2	31.7	48.8	98	−11	May 1	Oct. 26
Hugo (near)	31.2	27.3	35.7	42.2	53.0	65.8	70.5	67.0	59.5	47.8	34.3	31.2	47.1	95	−5	May 21	Sept. 24
Husted	34.4	29.4	37.1	43.6	52.4	64.9	69.8	65.2	60.1	49.2	36.5	34.6	48.1	97	−3	May 23	Oct. 2
Idaho Springs	32.6	26.4	32.5	38.1	46.0	59.0	.....	.....	.....	46.6	27.5	32.2	.....	.....	−4	June 5†	.....
Julesburg	35.2	28.7	34.9	45.8	56.4	71.5	75.8	69.1	63.6	50.0	34.5	30.8	49.7	101	−13	May 22	Sept. 22
Kit Carson (a)	30.6	24.0	36.9	47.4	59.3	72.3	76.1	71.3	(67.0)	61.0	47.6	38.6	(52.7)	.....	−8	May 21	Oct. 25
La Jara	29.0	27.3	34.4	43.1	52.3	64.0	66.6	62.4	57.2	47.0	34.8	29.4	45.7	90	−5	June 5	Oct. 1
Lamar	36.4	34.0	(42.0)	51.1	59.4	76.6	78.5	74.9	69.4	55.2	40.8	36.8	(54.8)	106	−5	Apr. 29	Oct. 2
Las Animas	34.6	33.6	39.8	52.2	59.2	72.0	75.0	71.4	64.9	54.9	37.1	32.6	52.3	102	−7	May 15	Oct. 2
Lavender	30.4	30.6	36.8	41.8	49.8	59.5	65.0	61.1	54.4	42.0	31.1	25.8	44.0	94	−11	June 15	Sept. 30
Lay (a)	16.8	17.2	28.9	39.5	50.0	62.1	69.5	(67.0)	(59.0)	41.2	26.6	26.8	(42.0	.....	−21	May 26	Oct. 1
Le Roy (a)	29.7	25.3	35.0	44.7	54.0	69.5	74.4	69.4	64.0	49.3	35.3	(32.2	48.6)	101	−13	May 7	Sept. 25
Livermore	32.2	27.0	34.7	40.6	50.8	63.8	69.2	64.2	56.6	.....	.....	.....	.....	90	.....	May 27	Sept. 22
Longmont	33.6	25.4	37.4	43.4	52.4	.....	.....	.....	59.5	48.5	.....	.....	.....	.....	.....	May 1	Sept. 21
Manhattan (c)	.....	19.8	.....	.....	.....	59.5	62.4	58.0	49.8	39.4	.....	.....	.....	.....	.....	.....	Sept. 27
Meeker	21.8	21.0	31.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 29	.....
Minneapolis	35.5	32.0	40.4	52.5	59.5	73.6	75.6	68.6	66.6	55.0	42.6	39.2	.....	105	−12	May 22	Sept. 4
Monte Vista[5]	.....	.....	31.0	39.6	49.2	60.3	63.0	61.8	54.2	42.7	28.8	25.5	.....	87	−17	June 4	Sept. 12
Monte Vista (a)[6]	23.0	22.4	30.1	43.5	51.7	.....	60.3	.....	.....	.....	.....	.....	.....	.....	.....	May 11	.....
Montrose	27.3	26.2	36.4	46.4	56.0	68.3	72.3	68.3	62.0	50.7	.....	.....	.....	92	−2	May 6	Sept. 30
Moraine	29.8	22.4	27.9	34.0	43.7	56.7	60.2	57.2	53.0	42.8	31.8	28.7	40.7	83	−11	June 6	Sept. 16
Orchard (a)	36.7	29.5	.....	53.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 30	.....
Pagoda (near)	18.3	20.0	28.8	38.6	48.0	58.9	65.4	63.8	55.4	42.5	30.2	25.9	41.3	96	−21	June 15	Sept. 9
Parachute	22.1	23.3	32.0	42.1	53.4	66.8	72.2	68.8	61.1	48.0	34.6	(29.0)	(46.1)	97	−12	May 27	Oct. 3
Rocky Ford	35.4	33.9	41.7	50.6	59.1	73.5	75.4	71.9	65.5	53.0	39.2	34.6	52.8	102	−1	May 8	Oct. 2
San Luis	25.6	27.4	30.4	39.4	49.3	60.0	62.0	59.4	55.6	46.0	33.1	27.2	43.9	91	−7	June 6	Sept. 8
Smoky Hill Mine	34.1	27.0	33.4	36.3	45.6	60.2	65.2	63.0	57.9	47.2	35.0	33.4	44.9	89	−6	June 5	Sept. 23
Snyder	.....	.....	.....	.....	.....	.....	73.4	71.5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stamford (a)	25.8	20.1	25.7	33.7	39.2	51.2	53.9	50.9	48.5	39.9	28.8	26.8	37.6	90	−14	June 16	Sept. 25
Steamboat Spring ¶	(16.0)	17.3	25.6	40.4	46.9	56.4	61.2	60.0	53.4	46.4	32.3	24.2	(40.0)	91	−29	.....	.....
Sunnyside	22.6	16.4	26.5	28.6	41.1	55.5	59.3	56.1	51.1	38.9	26.7	25.0	37.4	82	−10	June 6	Sept. 24

¶ Minimum temperature below 32° every month in the year. [1] Southern Pacific Railroad. [2] Williams, "Farmer."
[3] A. W. Schorn. [4] F. Beach. [5] Chas. Dailey.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Colorado—Continued.																	
Snrface Creek	27.0	27.4	37.9	°46.0	°57.7	68.0	71.0	67.8	59.4	47.4	35.4	32.8	48.0	95	1	June 4	Sept. 30
°Pikes Peak ¶	6.6	0.4	5.3	11.1	20.9	35.4	39.6	36.0	32.4	21.2	10.4	6.6	18.8	56	—21	.....	.....
°Pueblo	36.6	31.9	40.4	47.6	57.1	71.2	74.3	71.1	65.0	53.0	39.4	36.6	52.0	101	—2	May 23	Oct. 2
Thon	31.8	28.6	37.0	42.8	53.1	67.6	72.1	67.2	62.6	49.5	35.6	32.7	48.4	102	0	June 6	Sept. 23
T. S. Ranch	29.1	29.2	38.6	.....	°57.6	°68.2	.....	.....	°63.0	°51.2	37.3	°34.8	.....	.....	3	May 1	Sept. 30
Wray	33.2	28.0	°33.8	°42.8	°55.1	71.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 2	.....
Watkins (a)	36.3	29.2	41.3	49.8	56.2	78.4	79.6	74.9	75.8	55.2	40.3	39.6	54.5	100	2	June 2	Sept. 30
Connecticut.																	
Bridgeport (a)	.....	.....	.....	.....	.....	.....	.....	70.7	60.3	54.4	42.0	31.4	.....	.....	.....	.....	.....
Canton	17.2	24.0	31.0	43.0	56.2	67.0	69.4	70.2	57.6	53.2	41.0	27.6	46.4	91	—9	Apr. 28†	Oct. 17
Colchester	19.4	25.6	32.3	44.0	56.7	66.0	69.4	°69.7	57.6	°54.1	39.8	31.0	47.1	95	—5	Apr. 26†	Oct. 31†
Hartford	.....	25.6	33.4	45.0	57.9	67.6	70.8	70.8	59.8	53.4	40.4	28.8	.....	.....	.....	.....	Oct. 17
Middletown	19.6	26.4	34.0	45.6	58.6	67.2	70.0	70.4	58.7	54.0	39.9	29.0	47.8	96	—14	Apr. 26	Oct. 17
New Hartford (a)	11.0	17.6	24.2	37.6	52.1	65.0	68.6	70.4	58.2	54.0	39.1	26.2	43.7	94	—19	.....	Oct. 17
°New Haven	20.2	25.9	33.7	45.2	56.8	66.4	70.9	70.6	60.1	54.2	41.0	31.0	48.0	96	—3	Apr. 20†	Oct. 17
°New London	21.0	27.6	33.6	44.2	55.0	64.2	69.6	69.2	59.5	54.0	41.8	32.3	47.7	95	—4	.....	Oct. 17
North Grosvenor Dale (a)	17.7	24.4	29.8	42.0	55.2	65.2	70.5	68.7	58.2	51.8	39.1	30.3	46.0	92	—12	May 8†	Oct. 31†
Norwalk	18.3	25.3	31.4	43.6	56.6	67.2	69.8	69.4	58.2	52.4	39.0	31.0	46.8	96	—11	Apr. 23†	Oct. 30
Southington (a)	18.0	24.8	32.1	44.4	57.2	66.9	69.9	69.6	57.6	52.6	38.3	29.2	46.8	.....	.....	Apr. 26†	Oct. 31†
Storrs (a)	17.2	23.5	30.3	42.0	54.5	64.2	67.9	68.0	56.0	52.0	38.0	27.8	45.1	91	—6	Apr. 28	Oct. 17
Thompson (a)	16.4	23.4	29.4	.....	°56.4	63.5	67.4	67.7	56.4	52.6	38.0	27.4	.....	88	—6	Apr. 7†	Oct. 17
Voluntown (a)	°20.6	°26.7	°33.0	43.8	55.8	°62.9	69.0	68.4	55.8	52.8	39.7	39.7	46.8	93	—18	May 8	Oct. 17
Waterbury	19.9	25.6	32.4	46.2	57.5	67.3	70.0	69.9	58.8	54.8	40.7	39.7	47.8	94	—10	Apr. 20†	Oct. 31†
Delaware.																	
Dover (a)	22.9	34.5	40.2	52.9	60.7	70.8	74.6	73.6	64.8	56.8	44.6	38.6	53.1	96	—5	.....	Oct. 17
Kirkwood (b)	18.4	28.2	35.8	48.5	58.0	72.0	74.8	79.2	63.9	56.2	42.2	33.0	50.8	104	.....	.....	.....
Milford (a)	.....	.....	.....	.....	62.4	72.3	76.6	74.4	67.1	57.4	45.0	39.3	.....	.....	.....	.....	Oct. 29
Millsboro (a)	23.1	36.2	39.7	53.3	61.4	71.0	75.0	72.9	65.4	56.8	44.7	39.7	53.2	97	—17	.....	Oct. 17
Seaford (a)	23.9	36.3	40.4	53.6	61.4	71.6	75.5	73.1	67.4	54.0	44.9	39.7	53.5	97	—5	.....	Oct. 17
District of Columbia.																	
Distributing reservoir (c)	23.6	35.0	40.6	54.0	62.3	73.2	77.8	75.6	65.8	55.8	43.3	37.5	53.7	94	—5	.....	.....
Receiving reservoir (c)	24.0	34.6	40.4	54.0	62.6	73.2	77.4	74.8	66.0	55.7	43.2	37.8	53.7	94	—6	.....	.....
°Washington	24.6	35.1	41.1	53.8	61.6	72.5	77.0	74.6	66.0	56.5	43.6	38.3	53.7	97	—6	Mar. 30	Oct. 17
West Washington (a)	26.0	37.0	43.2	56.4	64.4	74.6	79.0	76.9	67.3	58.1	44.6	39.2	55.6	.....	.....	.....	.....
Florida.																	
Amelia	46.9	59.8	57.8	69.0	73.8	80.0	82.8	80.2	78.2	69.8	60.1	57.6	68.0	96	22	Mar. 6	Nov. 16
Archer	49.7	.....	.....	.....	.....	.....	.....	80.8	79.1	73.0	66.2	60.2	.....	.....	.....	.....	Nov. 16
Avon Park (a)	57.1	68.1	63.3	75.6	78.3	80.2	82.5	82.1	79.4	75.0	68.4	(63.0)	(65.7)	95	35	.....	.....
Bristol	46.0	61.3	59.8	72.6	79.8	82.6	85.2	83.9	80.2	74.0	(63.0)	(60.0)	(70.5)	101	.....	Mar. 19	.....
Brooksville	52.2	64.4	62.4	72.2	75.6	78.9	81.1	80.4	78.2	71.2	64.0	59.8	69.9	94	27	Mar. 6	Dec. 18
Clermont (a)	54.8	66.7	64.1	74.4	76.8	79.7	82.4	80.9	78.8	72.5	65.2	63.6	71.7	100	30	Jan. 17	.....
De Land	52.1	65.0	61.8	69.6	75.6	.....	.....	.....	.....	70.9	°64.8	60.0	.....	.....	19	Mar. 6	Dec. 29
Enstis (a)	52.2	65.3	62.4	72.9	75.9	79.0	81.2	80.8	77.7	71.4	64.0	61.9	70.4	98	26	Jan. 22	.....
Federal Point	49.6	62.5	61.0	70.2	74.1	78.6	81.2	80.0	76.8	70.6	63.0	59.3	68.9	95	24	Mar. 5	Dec. 19
Fort Meade	54.0	65.8	64.7	70.0	76.4	79.0	79.6	81.0	77.9	73.5	66.8	60.7	70.8	93	22	Mar. 6	Dec. 6
°Gainesville	.....	.....	.....	.....	77.2	81.4	85.0	82.4	78.8	71.3	.....	.....	.....	101	.....	.....	.....
Grasmere	53.1	66.6	64.4	73.4	76.1	79.0	81.6	81.0	78.2	73.4	65.8	62.8	71.3	95	27	.....	.....
Green Cove Springs	49.0	62.6	61.5	71.4	75.4	80.2	82.4	81.4	77.6	69.9	61.9	58.0	69.4	96	24	Mar. 6	None
Homeland (a)	52.1	64.6	63.0	70.3	73.7	76.9	79.5	80.1	77.0	73.5	67.0	61.4	70.0	97	25	Mar. 6	Dec. 19
Hypoluxo (c)	59.8	.....	70.9	74.4	75.8	78.5	82.4	81.8	80.4	.....	.....	.....	.....	.....	.....	.....	.....
°Jacksonville	49.2	61.6	60.6	72.6	75.3	80.0	83.6	81.4	78.9	70.9	62.0	58.8	69.6	100	24	Mar. 5	Nov. 25
°Jupiter	60.0	70.2	68.2	74.0	76.4	79.7	81.3	81.2	79.8	77.3	72.5	68.0	74.0	94	35	Jan. 14	None
°Key West	64.1	72.6	73.2	77.6	79.8	81.6	83.4	83.9	82.4	79.2	74.6	70.8	76.9	91	52	None.	None
Kissimmee	(56.0)	(60.0)	(68.0)	74.2	79.0	81.1	83.8	83.7	80.0	75.4	68.0	65.9	(73.7)	98	25	Mar. 5	Dec. 19
Lake City	49.8	65.0	63.5	73.6	77.4	81.0	83.8	81.9	79.4	71.1	63.8	61.0	70.8	96	25	Mar. 6	Dec. 16
Manatee (a)	54.3	66.4	64.0	71.4	74.6	79.0	80.5	80.6	79.8	74.1	66.8	65.5	71.1	99	28	Jan. 17	Dec. 19
Merritts Island	58.8	68.4	66.6	74.5	76.6	81.0	83.2	82.4	81.0	76.0	68.2	65.5	73.5	94	34	Mar. 19	Dec. 16
Moseley Hall	48.3	62.0	60.0	71.6	76.2	80.2	83.2	81.6	79.4	69.8	59.9	57.2	69.1	96	22	.....	Nov. 16
Mullett Key (a)	54.0	63.8	63.6	72.6	77.8	82.4	83.8	82.9	79.8	73.4	64.9	62.9	71.8	102	34	.....	.....
Myers (a)	56.3	68.1	67.2	73.5	75.7	78.0	79.6	79.6	77.6	74.5	68.5	65.9	72.1	92	35	Jan. 17	Dec. 19
New Smyrna	51.6	63.6	62.6	69.4	74.0	78.0	(79.0)	°79.4	77.6	74.2	64.6	61.6	(69.6)	.....	24	Jan. 22	Dec. 19
Ocala (a)	49.8	64.1	61.9	71.8	75.1	°78.9	°81.4	80.2	77.9	°71.1	63.6	59.5	69.6	95	21	Mar. 5	Dec. 6
Orange City	.....	65.6	63.6	75.1	.....	.....	.....	.....	81.4	74.0	56.6	60.9	.....	.....	.....	Mar. 5	Dec. 19
Orlando (a)	(51.0)	(64.0)	(62.0)	69.5	°73.2	76.5	78.4	77.8	75.1	74.0	65.4	63.2	(69.2)	95	.....	.....	Dec. 18
Oxford (a)	51.1	63.9	61.5	72.6	76.2	78.9	°81.6	79.5	76.6	70.7	63.2	60.2	69.7	°94	24	Mar. 5	Dec. 19
°Pensacola	47.6	59.2	58.4	69.7	74.3	79.4	82.0	81.0	78.7	68.2	59.6	56.8	67.9	97	23	Mar. 5	Dec. 5
Plant City	54.6	67.0	66.0	72.8	76.0	79.9	82.7	82.0	79.8	°73.6	67.4	61.5	71.9	100	27	Mar. 6	Dec. 7
St. Andrews Bay	47.2	°61.0	59.0	71.4	78.4	82.8	85.6	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 19	.....
St. Francis Barracks	49.5	61.4	60.5	69.4	73.9	78.6	81.4	80.7	76.8	69.6	61.2	58.3	68.4	94	26	Mar. 5	Dec. 19
St. Petersburg (a)	54.7	66.0	64.4	73.6	77.5	81.2	83.2	82.0	80.6	74.2	66.8	65.2	72.4	96	32	Jan. 22	.....
Tallahasse (a)	45.4	59.0	56.9	69.3	73.6	77.7	80.7	78.9	76.5	67.1	58.9	57.2	65.8	93	23	Mar. 5	Nov. 25
°Tampa	55.0	67.0	65.1	73.3	76.6	80.6	82.7	81.9	79.7	74.4	67.2	63.3	72.2	95	29	Mar. 6	None.
Tarpon Springs	52.6	66.5	64.8	73.0	76.6	81.1	82.8	82.0	80.2	74.2	66.1	62.0	71.8	94	28	Jan. 7	Dec. 19
°Titusville	53.2	66.6	63.6	71.9	75.3	79.4	80.9	80.6	79.0	73.8	66.4	63.0	71.1	96	29	Mar. 5	Dec. 5
Georgia.																	
Adairsville	23.6	46.2	51.0	64.6	68.2	74.4	°82.0	78.8	72.6	60.7	°50.4	44.1	60.6	°101	—1	Apr. 24	Oct. 15
°Alapaha	42.6	56.8	57.1	68.7	72.7	78.8	81.9	80.8	77.3	67.5	57.6	53.0	66.2	100	16	.....	.....
°Albany	41.8	58.0	57.2	69.4	°72.8	°80.8	84.4	81.6	77.6	67.1	56.8	54.6	66.8	101	20	.....	Oct. 31

† Minimum temperature below 32° every month in the year.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Georgia—Continued.																	
*Americus	42.8	54.0	55.4	70.2	75.2	81.4	85.0	81.2	77.3	65.8	55.5	52.7	66.4	100	13	.....	Oct. 31
Athens (a)[1]	36.9	48.4	51.2	66.2	69.2	74.7	80.6	76.8	72.2	61.9	51.2	46.9	61.4	96	10	Mar. 16	Oct. 31
*Athens[2]	36.2	48.6	51.4	65.2	69.0	76.0	82.1	78.0	73.8	61.7	50.0	.....	.....	.....	.....	.....	.....
*Atlanta	36.0	46.2	51.4	64.2	67.2	74.2	80.6	77.0	73.0	61.6	50.8	46.6	60.7	96	8	Apr. 24	Oct. 16
*Augusta	38.8	50.8	54.3	68.9	70.7	77.1	82.4	78.6	75.8	65.0	53.4	50.3	63.8	98	12	Mar. 20	Oct. 31
*Bainbridge	.....	.....	.....	.....	75.2	81.4	84.4	82.0	78.4	68.0	59.1	.....	.....	.....	.....	.....	.....
Blakely (e)	43.2	58.2	57.6	70.9	74.2	79.6	83.4	80.4	74.4	66.8	56.2	49.5	66.2	99	18	Mar. 19	Nov. 16
Bragg	41.4	54.6	56.2	69.9	71.8	77.7	82.7	79.0	77.2	.....	55.4	49.3	.....	99	12	Mar. 20	Nov. 16
*Camak	.....	.....	.....	.....	71.6	77.2	83.2	78.2	74.8	63.8	53.1	.....	.....	.....	.....	.....	Oct. 31
Camilla	.....	.....	.....	.....	.....	.....	87.1	82.5	76.6	66.8	56.0	54.4	.....	.....	.....	.....	Nov. 16
Clayton	.....	.....	.....	.....	.....	.....	.....	.....	.....	[5]55.0	46.4	42.4	.....	.....	.....	.....	Nov. 1
Cohutta	.....	.....	.....	.....	.....	.....	79.0	77.2	71.6	61.6	52.6	46.2	.....	.....	.....	.....	Oct. 15
*Columbus	38.2	[5]53.8	[5]56.0	69.4	[2]72.8	[2]78.5	[5]83.3	[5]80.6	[2]77.2	66.9	57.9	53.4	65.8	[5]97	[5]19	.....	.....
*Cordele	41.8	53.6	56.3	69.6	75.4	[5]81.3	85.4	81.6	78.2	66.5	55.2	.....	.....	108	.....	.....	.....
Covington	.....	.....	.....	.....	.....	.....	81.4	77.2	72.6	62.1	52.1	[5]46.8	.....	.....	.....	.....	Oct. 31
Dahlonega	34.9	46.9	50.8	63.0	65.1	71.4	.....	.....	69.9	60.4	50.1	46.0	.....	.....	.....	Mar. 20	Oct. 29
Darien	47.0	60.4	59.2	71.0	75.6	80.1	83.8	80.6	80.5	74.4	64.2	64.1	70.1	101	18	Mar. 19†	Nov. 25
Diamond	30.2	44.5	46.4	59.8	63.5	71.4	76.4	73.8	.....	.....	.....	.....	.....	.....	.....	Apr. 24	.....
Dublin	38.7	53.0	55.0	[2]68.6	71.2	80.6	79.2	80.8	79.2	70.2	[2]61.1	.....	.....	101	.....	Mar. 19	Oct. 31
*Eastman	.....	.....	.....	.....	72.8	78.4	82.2	79.4	76.0	64.2	52.6	.....	.....	101	.....	.....	.....
Elberton	35.8	46.6	51.8	66.4	68.6	75.7	81.0	77.1	73.6	63.1	51.6	48.2	61.6	98	6	Mar. 18†	Oct. 30
Fleming	[2]42.6	57.6	55.6	68.5	71.8	78.9	.....	76.5	75.0	65.2	56.2	51.5	.....	100	[2]13	Mar. 19	Nov. 16
Forsyth (a)	44.5	53.0	57.8	69.4	72.0	77.6	82.8	79.5	77.4	67.6	57.8	54.0	66.1	98	16	Mar. 19	Oct. 31
*Fort Gaines	45.2	.....	.....	68.2	72.8	78.2	82.7	79.7	76.4	65.2	55.8	53.5	.....	98	.....	.....	.....
Gainesville	[2]35.4	47.2	50.4	64.2	67.1	75.0	80.1	77.1	70.2	59.4	49.9	.....	.....	98	.....	.....	.....
Gillsville (a)	36.5	47.8	51.6	64.9	66.4	73.5	78.2	76.3	72.6	62.7	51.1	46.6	60.7	98	9	Mar. 30†	Nov. 25†
*Griffin	.....	.....	.....	.....	70.9	73.9	81.8	77.8	69.7	57.8	45.3	.....	.....	104	.....	.....	Oct. 30
Hawkinsville	40.4	53.8	54.2	66.2	69.6	77.8	82.0	.....	.....	.....	53.6	50.0	.....	.....	.....	Mar. 30†	Nov. 23
Hephzibah (c)	42.3	52.7	55.0	69.2	71.4	77.0	83.0	78.6	76.4	63.8	55.6	51.6	64.7	92	14	Mar. 20	Oct. 31
Homerville	46.0	59.2	58.2	70.2	73.2	78.6	82.0	79.4	77.4	68.0	58.3	55.8	67.2	96	20	Mar. 20	Nov. 15
Lafayette	34.3	46.0	50.5	.....	.....	.....	79.8	75.9	71.0	59.4	[5]49.4	43.4	.....	.....	0	Mar. 30†	Oct. 30
Lagrange (a)	38.3	49.6	53.0	66.7	67.9	74.4	80.8	77.8	74.4	63.2	52.9	49.2	62.4	98	12	Mar. 30	Nov. 15†
Lincolnton	.....	.....	52.4	[2]66.0	[5]69.8	[2]77.0	[5]83.4	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 30	.....
Louisville	38.8	51.8	54.2	68.5	69.3	76.5	81.6	79.0	75.8	65.2	.....	49.8	.....	100	12	Mar. 19†	Oct. 31
Lumpkin	[2]43.8	53.2	56.0	68.5	72.7	77.4	82.4	79.0	76.2	66.0	55.2	52.0	65.1	98	17	Mar. 19	Oct. 30
McArthur	41.4	.....	58.2	71.8	74.2	79.6	83.4	[5]81.3	77.6	67.2	55.8	52.8	.....	98	.....	Mar. 19†	Nov. 17
*Macon	.....	.....	.....	.....	73.8	[2]80.0	[5]82.4	82.2	80.6	75.0	.....	.....	.....	.....	.....	.....	Oct. 31
Marietta (a)	39.9	44.7	50.5	63.4	65.6	72.1	78.8	74.8	69.7	59.2	48.6	44.2	58.7	96	6	Apr. 24	Oct. 30
Marshallville	40.7	57.6	54.7	72.3	72.4	76.2	79.6	.....	79.2	67.0	56.4	50.3	.....	.....	14	Mar. 20†	Oct. 28
Milledgeville	36.8	51.4	53.7	65.4	68.8	75.4	80.6	76.2	75.4	64.6	55.4	.....	.....	94	.....	Mar. 5	Oct. 31
*Millen	39.7	52.7	54.9	69.0	71.0	77.9	82.7	79.6	76.8	65.4	[5]54.0	50.3	64.5	101	10	.....	Oct. 31
Monticello (a)	.....	.....	.....	.....	[2]72.8	78.0	[5]80.9	[2]80.1	[2]76.1	65.4	.....	51.8	.....	[5]93	.....	.....	Dec. 4†
Morgan (a)	45.7	[5]58.4	.....	.....	.....	.....	80.0	78.1	74.4	64.4	54.8	53.2	.....	98	15	Mar. 30	Oct. 30
*Newnan	.....	.....	.....	.....	68.8	74.9	81.9	79.7	72.8	61.2	51.0	.....	.....	99	.....	.....	Nov. 16
Piscola	46.6	60.4	58.6	70.9	75.4	.....	.....	.....	.....	[2]68.3	59.3	56.5	.....	.....	.....	Mar. 19	Nov. 16
Point Peter (a)	35.3	47.8	50.6	65.0	68.2	73.6	80.2	77.7	72.9	62.4	50.3	44.6	60.7	100	10	Mar. 30	Nov. 1†
Poulan (a)	41.6	54.5	55.4	68.5	72.1	77.6	80.9	80.3	76.0	65.8	54.3	52.4	65.0	101	14	Mar. 20†	Nov. 16
*Quitman	47.6	61.4	59.8	70.0	74.4	79.7	[5]82.2	80.6	77.1	67.4	58.2	.....	.....	[5]100	16	.....	.....
Rome (a)	32.0	45.8	50.6	62.2	66.0	72.7	79.9	76.1	70.9	58.5	49.0	42.8	58.8	97	2	Mar. 19†	Oct. 16
*Savannah	44.3	56.8	57.0	70.0	72.6	78.6	83.0	79.3	78.1	68.2	57.8	54.5	66.7	100	18	Mar. 19	Nov. 16
Talbotton	.....	50.5	54.2	66.4	70.3	75.6	80.8	76.9	73.5	62.8	52.6	49.8	.....	97	.....	Mar. 19†	Nov. 16†
*Thomasville	45.5	58.8	57.6	70.2	74.1	79.4	83.2	81.2	78.3	68.6	58.4	56.5	67.6	98	19	.....	.....
*Toccoa	35.4	48.1	51.6	64.0	68.1	72.8	76.5	71.8	71.2	61.6	49.6	44.5	59.6	95	6	.....	.....
*Union Point	40.0	51.5	52.5	67.0	68.8	75.6	81.5	77.1	73.4	62.6	[5]51.0	49.2	62.5	97	11	.....	.....
*Washington	.....	.....	.....	.....	70.5	76.9	81.0	76.2	71.0	63.0	52.6	49.4	.....	96	.....	.....	.....
*Way Cross	.....	.....	.....	.....	74.0	79.8	82.0	80.6	77.4	68.2	58.6	.....	.....	96	.....	.....	.....
*Waynesboro	.....	.....	.....	.....	72.8	77.5	82.6	78.2	70.8	65.2	53.2	.....	.....	102	.....	.....	.....
*West Point	.....	.....	.....	.....	72.4	79.6	86.0	81.4	77.8	65.8	54.6	47.5	.....	97	.....	.....	.....
Idaho.																	
American Falls	20.9	18.2	28.3	40.0	50.8	59.8	68.0	67.3	54.0	.....	32.2	.....	.....	106	—26	June 22	Sept. 14
Boise Barracks	28.4	30.9	38.7	46.4	55.1	62.7	70.9	71.4	59.0	47.2	37.6	34.3	48.4	106	0	Apr. 14	Oct. 12
Bonanza City	10.6	16.4	22.6	30.6	41.1	48.1	57.0	57.8	53.0	44.1	28.0	.....	.....	93	—32	.....	.....
Delta	.....	.....	.....	.....	49.4	58.2	60.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fort Sherman	23.2	22.8	33.9	42.2	51.8	55.0	64.9	66.8	57.8	45.0	34.2	34.1	44.8	98	—23	May 11†	Oct. 13†
Garden Valley (a)	23.6	25.1	32.1	(45.0)	49.0	59.0	67.0	67.4	52.0	45.3	35.1	27.0	(43.9)	90	—12	June 24	Oct. 1
Grangeville	.....	.....	.....	.....	.....	.....	.....	.....	.....	44.0	35.2	33.8	.....	.....	.....	.....	Oct. 11
*Idaho Falls	16.2	14.4	24.8	39.6	49.4	59.2	67.6	66.8	55.7	45.4	30.6	28.3	41.5	99	—22	July 7	Sept. 14
Kootenai (a)	19.7	22.0	32.2	40.9	51.9	55.8	65.6	63.6	51.9	40.9	30.9	29.7	42.2	95	—21	June 2	Sept. 16
Lake	15.8	15.9	24.8	32.3	42.1	54.0	61.2	58.8	52.0	41.5	28.2	23.6	37.6	92	—25	July 7	Sept. 13
Martin	29.6	15.1	26.2	33.3	44.0	52.8	62.8	62.6	52.2	39.8	28.5	22.7	38.4	93	—21	July 12†	Sept. 12†
Moscow (a)	.....	27.4	34.5	40.7	52.6	57.6	.....	.....	.....	.....	34.6	35.5	.....	.....	—15	Apr. 19†	Nov. 1†
Oakley	.....	.....	.....	.....	.....	.....	76.0	71.4	59.2	48.1	35.0	34.8	.....	.....	.....	.....	Oct. 26†
Paris	.....	.....	.....	.....	48.3	58.2	65.0	64.0	56.6	44.8	33.4	29.6	.....	94	.....	May 28	Sept. 13
Payette	24.5	31.2	40.3	48.6	56.8	64.1	72.8	70.2	58.7	47.0	36.6	34.1	48.7	108	—2	May 30	Sept. 22
Ruthburg (a)	27.7	27.6	35.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Illinois.																	
Atwood (c)	13.1	.....	35.8	46.9	56.0	.....	76.8	72.2	.....	.....	34.2	.....	.....	100	—22	May 18	Nov. 14
Aurora[3]	7.7	20.2	32.8	46.2	54.4	70.6	74.2	69.8	64.4	50.8	.....	.....	.....	98	—24	May 6	Sept. 26
Aurora (a)[4]	10.4	20.9	34.0	46.0	55.5	70.8	.....	.....	.....	.....	33.3	24.8	.....	.....	—16	.....	.....
Bloomington	13.3	24.0	[5]37.8	[5]45.7	58.8	.....	.....	71.6	[2]67.6	55.5	38.2	28.4	.....	.....	—19	May 6	Sept. 25
Bushnell	13.6	21.0	37.2	49.4	59.2	73.3	78.7	72.4	67.8	56.7	38.5	28.2	49.7	98	—14	Apr. 17	Oct. 15
*Cairo	29.4	36.4	47.2	60.2	65.0	74.8	80.1	76.5	71.2	57.9	46.1	40.0	57.1	94	0	Mar. 29†	Oct. 15
Carlinaville	20.0	26.7	40.6	53.0	62.0	72.0	78.8	75.1	70.9	56.6	41.6	32.2	52.5	99	—8	Apr. 23	Sept. 28

[1] Prof. L. H. Charbonnier.
[2] Cotton region observer.
[3] W. Holden.
[4] Dr. M. M. Robbins.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Illinois—Continued.																	
*Chicago	12.0	21.5	33.2	44.3	52.4	67.8	73.8	69.8	64.1	52.6	36.0	25.4	46.1	95	—16	Apr. 22	Oct. 16
Collinsville	.....	30.4	43.2	.....	.....	73.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Decatur	15.6	24.3	37.1	.....	.....	.....	.....	.....	.....	.....	.....	32.4	.....	.....	—14	.....	.....
Dixon (*a*)	8.2	17.4	32.5	45.6	56.0	69.7	74.5	68.7	63.5	51.0	32.4	24.0	45.3	98	—23	May 4	Sept. 26
Dubois (*a*)	.....	.....	.....	.....	.....	73.1	76.8	73.9	70.0	55.8	42.2	.....	.....	98	.....	.....	Oct. 16
East Peoria (*a*)	15.2	24.4	38.2	50.1	58.0	71.2	76.6	69.2	.....	54.4	36.8	30.0	.....	98	—20	Apr. 15	Oct. 17
Effingham	17.1	23.2	36.4	.....	59.8	.....	[c]75.6	71.6	.....	53.4	.....	35.0	.....	98	—12	May 3	Oct. 14
Fairmount	13.0	27.2	34.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	—22	.....	.....
Flora (*a*)	20.3	29.9	42.2	55.6	61.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 22	.....
Fort Sheridan	.....	21.0	30.7	43.8	51.2	65.8	.....	67.9	62.8	50.6	34.5	24.6	.....	.....	.....	May 1	Oct. 16
Galva	10.4	19.4	34.9	47.8	57.1	72.3	76.2	71.2	66.6	53.0	35.5	24.3	47.4	99	—18	Apr. 23	Oct. 15
Golconda	29.2	37.8	47.2	61.0	65.3	74.8	81.1	77.6	72.6	58.9	46.8	42.0	57.9	95	—2	Mar. 26	Oct. 15
Greenville (*a*)	20.8	28.8	41.6	54.4	61.9	73.4	78.2	73.2	71.3	55.6	40.8	33.5	53.7	101	—9	Apr. 22	Sept. 26
Griggsville	17.0	25.4	39.2	51.4	61.4	72.4	76.8	72.4	70.2	56.2	40.0	30.6	51.1	101	—9	Apr. 24	Oct. 15
Havana	16.2	26.9	40.5	52.1	60.5	74.0	78.6	72.9	68.3	56.8	41.2	32.6	51.9	96	—9	Apr. 23	Oct. 16
Hennepin	8.4	21.5	37.2	48.7	57.8	72.2	78.1	71.5	66.2	52.8	.....	.....	.....	102	.....	Apr. 9	Sept. 27
Herrins Prairie (*a*)	.....	.....	.....	.....	.....	[a]75.2	81.7	77.8	73.9	.....	.....	.....	.....	94	.....	.....	.....
Jordans Grove	24.2	30.8	44.2	57.5	62.9	72.6	77.6	73.4	70.3	57.1	44.4	37.6	54.4	97	—5	Apr. 15	Oct. 30
Kankakee	10.6	22.2	34.0	48.1	55.4	69.8	75.0	68.8	65.6	51.6	34.7	31.5	47.3	92	—20	Apr. 22	Oct. 13
La Grange	11.0	21.1	34.2	46.5	54.4	69.5	73.1	68.8	64.0	53.0	35.3	26.4	46.4	99	—18	Apr. 15	Oct. 16
Louisville	19.3	29.4	40.7	55.9	62.2	73.7	80.2	73.5	.....	.....	42.4	36.0	.....	98	—13	Mar. 29	Nov. 15
McLeansboro (*a*)	25.0	33.1	43.6	58.0	62.6	72.2	83.3	73.9	70.6	55.6	42.9	37.4	54.8	102	—11	Mar. 29[1]	Nov. 18
Martinsville	16.2	28.9	41.4	53.6	60.4	71.3	78.6	72.4	69.4	54.9	[c]39.3	[a]34.9	51.8	97	—16	Apr. 26	Oct. 16
Muscoutah (*e*)	22.8	30.8	41.8	54.3	.....	74.0	79.4	73.4	72.1	54.4	40.2	37.9	.....	98	—8	Apr. 15	Oct. 16
Mattoon (*a*)	22.1	30.5	.....	.....	59.0	72.1	79.0	73.8	69.2	[m]59.9	43.8	36.8	.....	98	—5	Apr. 21	Oct. 29
Monmouth	.....	20.4	36.3	.....	.....	.....	.....	.....	.....	.....	.....	27.8	.....	.....	.....	.....	.....
Mount Pulaski	.....	.....	.....	.....	.....	72.7	77.3	72.2	69.0	57.0	39.3	30.5	.....	97	.....	.....	Sept. 26
Muddy Valley (*c*)	[c]25.5	[a]29.8	[a]41.6	[c]57.8	[a]64.4	[a]75.8	[a]78.6	[a]74.6	[a]68.4	[c]57.8	[c]41.4	[a]37.4	54.4	96	0	Apr. 14	Nov. 13[1]
Olney (*a*)[1]	16.8	28.1	[c]39.5	53.4	60.2	72.7	78.5	71.4	67.7	56.9	[a]36.0	[b]31.5	51.1	110	—17	Apr. 15[1]	Oct. 15
Olney (*a*)[2]	23.4	32.7	44.1	57.1	63.5	75.4	81.3	75.6	71.5	[d]53.2	43.0	36.6	54.8	97	—14	.....	.....
Oregon	9.7	.....	36.0	49.3	61.2	76.9	81.2	75.6	65.8	53.3	36.2	25.2	.....	98	.....	Apr. 14	Sept. 26
Oswego (*a*)	7.7	19.2	32.5	44.8	54.3	68.7	73.5	68.1	63.0	50.4	32.2	23.7	44.8	96	—26	May 6	Sept. 26
Ottawa (*a*)	11.8	22.4	35.4	48.2	57.7	72.2	77.2	71.2	64.6	56.0	35.2	27.1	48.2	100	—26	May 6	Sept. 26
Palestine (*a*)	19.5	30.4	41.4	54.5	60.9	71.4	77.2	70.5	68.1	52.6	39.8	33.5	51.6	97	—17	Apr. 2	Oct. 16
Pana (*a*)	17.6	26.6	40.5	54.0	[c]62.5	76.2	81.6	76.2	72.0	55.9	.....	.....	.....	100	.....	Mar. 21	Oct. 25
Paris	.....	.....	.....	51.7	59.6	72.4	78.1	72.9	[c]67.2	54.6	40.0	31.9	.....	100	.....	Apr. 23[1]	Oct. 16
Peoria (*a*)	16.4	26.0	39.4	51.9	61.3	75.7	81.0	74.1	69.0	56.0	39.2	30.4	51.7	100	—14	Apr. 21[1]	Oct. 29
Philo (*a*)	14.5	26.7	38.4	49.5	58.2	71.2	78.2	73.6	68.7	54.2	38.2	30.5	50.2	98	—21	May 4	Sept. 26
Rantoul (*e*)	13.8	24.1	36.7	50.0	62.3	79.8	80.7	74.0	68.6	52.6	36.8	28.5	49.9	102	—22	Apr. 21[1]	Sept. 25
Riley	6.9	16.0	30.6	43.9	53.7	67.9	72.5	69.3	[c]62.8	50.6	32.6	21.3	44.0	94	—20	Apr. 24[1]	Sept. 25
Rockford (*a*)	9.0	18.1	32.2	45.1	55.6	69.6	74.3	69.0	62.6	53.0	35.3	24.0	45.6	92	—19	Apr. 23[1]	Oct. 24
Rushville	15.4	23.8	38.4	51.6	61.1	75.3	80.0	74.4	70.2	57.4	39.4	29.8	51.4	100	—12	Apr. 23	Sept. 26
St. John (*c*)	24.6	35.6	47.8	58.6	66.1	74.6	81.1	77.0	72.6	55.8	43.0	34.9	56.0	101	—2	Mar. 26[1]	Nov. 15[1]
*Springfield	16.8	25.2	39.0	51.3	59.9	72.8	78.0	72.9	69.2	55.8	40.0	30.3	50.9	98	—12	Apr. 23	Sept. 26
Streator	.....	.....	.....	49.6	57.5	73.0	.....	.....	69.6	.....	40.0	25.6	.....	.....	.....	May 1	Sept. 25
Sycamore (*a*)	10.3	19.5	32.4	44.6	54.8	68.7	72.6	68.0	62.1	51.0	33.8	24.2	45.2	93	—17	May 6	Oct. 15
Tuscola (*a*)	.....	.....	42.6	53.5	.....	74.3	79.0	77.7	.....	.....	.....	.....	.....	95	.....	Apr. 23	.....
Walnut	9.6	19.2	35.7	48.6	58.5	73.4	78.5	73.4	67.5	55.4	36.6	25.2	48.5	99	—17	Apr. 22[1]	Sept. 26
Watseka (*b*)	12.1	23.6	34.6	47.6	56.3	71.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 13[1]	.....
White Hall (*d*)	17.9	25.4	38.0	50.6	60.2	72.0	77.1	70.6	66.2	51.5	.....	.....	.....	99	.....	Apr. 15	Oct. 15
Winnebago (*a*)	7.9	17.0	31.1	44.2	[a]53.6	[c]69.2	73.5	[c]68.5	62.0	[a]49.0	32.9	22.8	44.3	[c]95	—19	May 6	Sept. 25
Indiana.																	
Angola (*a*)	15.0	23.0	34.6	44.4	57.0	70.8	74.7	71.1	65.0	(52.0)	38.4	28.7	(47.9)	100	—16	Apr. 16	Sept. 26
Ashboro	17.8	30.7	41.9	(53.0)	60.6	69.8	76.8	[c]72.0	[a]68.0	56.1	[a]41.1	33.9	(51.8)	101	—17	.....	Oct. 16
Bedford	[c]22.0	30.8	41.2	55.0	61.6	73.2	78.4	74.8	70.0	55.5	41.4	34.1	53.0	99	—14	Apr. 23	Oct. 16
Butlerville	19.0	33.6	42.4	54.3	60.8	71.2	77.5	[c]73.4	[c]69.4	54.8	41.1	35.0	52.8	98	—16	Apr. 24	Oct. 16
Cambridge City	16.8	30.0	38.8	51.2	58.2	69.8	75.4	68.9	66.0	53.6	39.0	32.8	50.0	94	—19	May 19	Oct. 18
Columbia City (*a*)	13.9	23.3	35.6	46.6	56.3	69.5	73.8	69.6	65.6	50.5	35.9	28.9	47.5	95	—17	Apr. 22	Sept. 26
Columbus	19.5	31.6	41.0	53.2	60.2	71.4	77.8	73.0	69.0	55.0	41.9	35.3	52.4	.....	—12	Apr. 23	Sept. 26
Connersville	18.8	32.2	40.2	51.8	59.1	70.2	75.6	70.4	66.4	52.8	40.5	34.5	51.0	93	—16	Apr. 23	Oct. 16
Crawfordsville (*a*)	16.0	28.3	40.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Degonia Springs (*f*)	24.7	35.2	44.7	58.0	63.4	74.0	79.2	73.8	70.9	56.4	44.5	38.3	55.3	93	—8	Mar. 29	Oct. 30
Delphi	16.4	29.4	38.7	47.7	55.5	68.8	74.4	(71 0)	64.0	51.0	36.7	29.2	(48.6)	.....	—18	Apr. 24	Sept. 26
Farmland	16.9	28.8	38.5	50.8	58.7	[c]70.4	[c]76.0	69.8	66.2	[a]51.0	39.0	33.0	49.9	94	—15	Apr. 15	Oct. 15
Franklin (*a*)	17.6	30.0	40.4	52.4	60.2	72.0	[a]77.9	[a]72.9	[a]67.4	52.9	39.4	34.8	51.5	94	—18	Apr. 14	Oct. 16
Hammond	10.6	22.4	35.2	47.1	57.2	71.8	[a]78.6	.....	.....	.....	.....	.....	.....	.....	—19	Apr. 22	.....
Hawpatch	10.0	23.1	35.8	45.5	54.5	68.7	72.4	68.9	64.3	50.5	33.2	(28.0)	(46.7)	96	—11	May 6	Sept. 26
Huntingburg (*a*)	23.2	(34.0)	43.4	(57.0)	66.7	68.9	81.1	73.5	67.1	56.5	(44.0)	38.0	(54.4)	92	.....	.....	Oct. 16
*Indianapolis	17.9	30.0	40.2	52.0	59.9	72.8	79.1	73.4	69.0	55.7	41.0	32.8	52.0	97	—15	Apr. 23	Sept. 26
Irvington (*c*)	16.0	28.3	38.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jasper	.....	.....	46.8	58.1	62.6	.....	.....	75.4	70.1	56.4	43.3	37.5	.....	.....	.....	Apr. 23	Oct. 16
Jeffersonville (*a*)	24.6	36.1	44.7	57.2	63.6	74.4	80.2	75.2	69.6	55.8	44.3	38.7	55.4	96	—8	Apr. 24	Oct. 16
Kokomo (*a*)	16.7	28.6	37.8	51.2	59.6	73.6	[a]77.7	69.0	65.3	[a]56.8	39.6	31.2	50.5	104	—17	Apr. 17	Sept. 26
Laconia (*a*)	23.5	35.3	44.0	56.8	63.2	74.1	80.6	76.5	71.1	56.5	41.9	37.6	55.1	96	—11	Apr. 24	Oct. 29
Lafayette	13.5	27.7	38.3	50.3	58.0	71.6	77.7	72.3	67.9	54.3	38.5	30.0	50.0	99	—25	Apr. 26	Sept. 26
Logansport	16.5	25.6	35.6	51.2	59.0	72.2	76.0	70.4	68.0	53.4	40.0	33.2	50.1	95	—18	Apr. 15	Oct. 16
Madison	(23.0)	(37.0)	(48.0)	58.0	64.6	75.8	81.0	76.6	71.4	57.8	42.9	38.0	(56.0)	98	.....	.....	Oct. 29
Marengo (*a*)	26.0	37.8	46.7	57.6	62.4	73.1	78.6	73.9	70.3	56.0	42.8	37.0	55.2	96	—14	Mar. 29	Oct. 16
Marion	16.2	27.4	40.9	51.3	59.8	72.0	78.2	73.2	68.8	57.1	42.1	32.7	51.6	97	—18	Apr. 22	Oct. 16
Markle	.....	.....	37.0	49.3	58.1	[c]71.6	.....	.....	[c]63.8	51.8	38.4	.....	.....	.....	.....	Apr. 16	Sept. 26
Mauzy	16.0	29.6	38.5	50.8	59.0	71.1	75.8	70.2	[b]63.8	52.4	39.0	31.8	50.2	93	—19	Apr. 30	Sept. 25
Michigan City (*a*)	17.4	24.3	[a]36.7	48.7	56.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 22	.....
Mount Vernon	[a]24.1	33.6	44.2	58.2	63.4	74.1	79.5	(75.0)	(71.0)	55.5	42.3	36.6	(54.9)	.....	—5	Mar. 29	Oct. 29
Muncie	20.1	[a]31.6	[a]43.6	[a]54.0	[a]63.3	[a]77.0	[a]81.8	[b]78.1	[a]72.1	[a]57.3	39.4	34.9	54.3	[c]98	—12	Mar. 28	Oct. 30
New Albany (*a*)	23.0	35.2	44.9	57.8	62.1	74.0	80.0	76.3	71.4	58.4	44.4	37.2	55.5	96	—11	Apr. 15	Oct. 29

[1] Miss C. Fahs.

[2] V. E. Phillips.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Indiana—Continued.																	
Point Isabel	17.0	28.7	38.3	52.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 29	.....
Princeton (a)	22.7	32.8	42.5	55.9	61.6	74.3	79.4	74.5	70.0	54.2	42.1	36.2	53.8	99	—12	Apr. 2	Oct. 16
Rockville	15.0	27.4	38.9	52.0	59.6	71.6	76.8	71.7	68.3	54.2	39.6	31.7	50.6	97	—19	Apr. 24	Oct. 16
Seymour	(19.0)	30.3	41.0	52.8	60.3	72.8	78.2	73.3	69.6	55.8	41.3	33.8	52.4	97	.....	Apr. 23	Oct. 16
Shelbyville	*14.0	30.3	†42.6	*55.0	.....	.....	.....	.....	*69.2	.....	.....	.....	.....	.....	.....	Apr. 23	Sept. 25
Terre Haute	(19.0)	(32.0)	41.4	54.1	61.4	72.2	(78.0)	73.8	69.5	57.3	42.5	34.6	(52.8)	99	.....	Apr. 17	Oct. 16
Union City	15.2	27.9	36.6	49.9	56.4	68.6	(75.0)	(69.0)	66.0	53.8	38.6	32.4	(49.1)	.....	—19	May 19	Sept. 26
Valparaiso	(16.0)	(23.0)	35.1	44.2	53.5	68.6	74.2	69.8	64.1	50.8	35.9	25.0	(46.7)	97	.....	May 8	Oct. 16
Veedersburg	16.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vevay (a)	21.1	35.1	44.7	56.3	63.2	73.5	78.3	72.4	69.4	55.8	43.3	38.2	54.3	96	—15	Apr. 17	Oct. 29
Worthington	18.4	31.4	42.6	54.7	60.9	71.8	77.2	72.1	67.8	54.6	41.5	34.0	52.2	94	—16	Apr. 15	Oct. 16
Indian Territory.																	
Gwenndale	31.3	*34.0	46.2	59.0	64.4	74.8	80.6	83.8	*83.8	66.5	49.1	46.7	60.0	103	5	Mar. 29	Nov. 14
Kemp	.....	.....	.....	.....	.....	79.6	.....	.....	79.3	65.6	51.2	50.4	.....	.....	.....	.....	Oct. 27
Lehigh	38.4	42.2	55.6	64.6	70.6	77.2	81.6	77.7	75.6	62.7	47.8	45.9	61.7	105	—4	Mar. 21	Oct. 27
Purcell	39.9	42.6	55.8	65.5	66.0	79.0	87.2	80.9	77.8	65.2	49.0	46.2	62.9	109	—2	May 1	Nov. 5
South McAlester	39.4	42.6	53.6	.....	.....	.....	83.0	77.8	74.2	.....	.....	.....	.....	.....	.....	Mar. 24	.....
Iowa.																	
Algona (a)	8.3	11.7	28.4	43.4	57.0	71.2	73.2	68.4	62.8	49.1	31.9	17.7	43.6	96	—24	Apr. 22	Sept. 25
Alta	7.4	11.0	26.7	41.0	54.6	70.8	72.9	68.4	64.6	49.9	31.0	17.0	43.0	95	—27	May 2	Sept. 25
Amana	7.5	15.6	32.3	45.5	56.5	71.2	75.4	69.4	63.4	51.9	33.1	21.4	45.3	96	—19	Apr. 23	Sept. 26
Ames (near) (a)	10.1	17.9	31.1	*44.3	55.8	72.7	79.1	72.5	67.7	54.6	36.3	22.5	47.6	102	.....	May 3	Sept. 25
Ames	6.4	13.4	30.1	44.0	55.0	69.7	73.2	68.0	62.3	51.0	*32.4	16.5	43.5	97	—24	Apr. 27	Sept. 25
Atlantic (a)	11.6	16.4	31.0	45.3	55.8	70.1	74.2	(73.0)	62.8	50.9	33.7	24.2	(46.5)	.....	—21	May 6	Sept. 25
Audubon	11.0	15.3	31.0	45.9	58.0	71.6	75.0	71.4	63.6	52.0	33.3	22.2	45.9	97	—20	May 3	Sept. 16
Belle Plaine (a)	7.3	16.4	31.5	45.2	56.2	71.2	74.8	69.2	*65.7	51.0	32.6	21.5	45.2	97	—20	May 4	Sept. 25
Blakesville (a)	6.1	14.4	29.8	43.0	55.3	71.8	77.4	72.1	67.6	53.6	(33.0)	(21.0)	(45.4)	104	—22	May 3	Sept. 26
Blockton	14.2	20.0	33.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bonaparte (a)	12.1	20.9	34.6	47.5	57.3	70.3	75.6	70.0	66.4	53.9	35.5	25.8	47.5	101	—14	Apr. 22	Sept. 26
Carroll	(10.0)	*18.1	30.1	44.9	56.7	72.2	75.2	68.5	62.8	51.0	31.6	18.7	(45.0)	94	—21	May 3	Sept. 25
Cedar Falls	5.6	14.6	31.1	.....	.....	70.2	75.0	70.0	64.2	53.1	32.3	19.2	.....	.....	—23	.....	Sept. 25
Cedar Rapids	9.3	17.4	33.1	45.9	57.2	72.2	76.4	70.2	64.8	52.7	34.3	22.9	46.4	94	—16	Apr. 23	Sept. 25
Centerville	12.6	21.2	35.8	48.2	60.1	72.2	77.6	73.0	65.9	54.3	37.3	29.4	49.6	97	—18	Apr. 27	Sept. 25
Charles City	2.3	10.4	26.5	41.7	54.2	72.0	73.4	68.6	62.9	52.5	31.1	16.3	42.6	96	—28	May 4	Sept. 25
Clarinda (a)	13.6	18.2	32.9	47.7	58.6	71.7	75.4	69.7	65.8	52.5	34.8	26.1	47.3	97	—15	May 2	Sept. 25
Clinton (a)	8.1	17.4	33.2	46.7	57.5	71.2	76.0	69.6	63.0	51.0	33.3	23.9	45.9	96	—20	May 6	Sept. 26
College Springs	12.6	18.9	35.7	48.8	58.5	71.9	74.3	68.0	(65.0)	(53.0)	36.8	26.5	(47.3)	.....	—17	Apr. 27	Sept. 25
Corning	13.1	18.3	33.2	47.0	57.1	69.4	73.2	67.8	64.6	*54.2	37.4	26.3	46.8	95	—17	May 2	Sept. 25
Council Bluffs	.....	.....	.....	.....	.....	.....	78.0	71.6	64.2	54.5	36.2	26.1	.....	.....	.....	.....	Sept. 25
Cresco (a)	2.5	9.3	25.3	39.6	52.9	68.2	71.1	67.4	60.5	48.2	29.5	16.4	41.0	94	—27	May 4	Sept. 25
*Davenport	9.1	17.4	34.2	47.1	57.6	72.0	76.8	72.2	68.4	54.7	36.2	24.3	47.3	96	—15	Apr. 13	Oct. 15
Decorah	—0.5	11.9	28.2	.....	.....	.....	72.2	68.0	66.6	50.8	31.4	19.2	.....	.....	—36	.....	Sept. 23
Delaware (c)	1.6	11.4	27.8	41.7	55.1	69.9	73.7	66.9	59.8	48.3	29.3	18.8	42.0	98	—24	May 6	Sept. 25
Denison (a)	12.6	*16.8	31.9	*46.2	.....	†71.4	*74.9	.....	.....	.....	.....	20.8	.....	.....	.....	May 3	.....
*Des Moines	10.2	17.4	33.4	46.0	56.9	71.4	75.5	70.0	66.2	54.8	35.6	23.0	46.7	95	—16	Apr. 9	Sept. 25
Des Moines (near) (a)	.....	.....	.....	.....	.....	.....	75.7	70.6	67.4	55.8	36.5	23.0	.....	.....	.....	.....	Sept. 25
*Dubuque	6.6	15.0	32.0	45.2	56.8	71.8	76.3	70.9	63.9	53.2	34.6	22.2	45.7	96	—23	Apr. 23	Sept. 27
Eagle Grove (c)	2.6	8.8	25.1	40.2	55.4	70.4	72.7	66.0	.....	.....	.....	.....	.....	.....	—25	Apr. 27	.....
Elkader	(6.0)	14.9	30.5	42.6	55.2	70.6	73.5	67.6	62.6	50.5	31.0	18.7	(43.6)	100	.....	May 3	Sept. 26
Emmetsburg	9.0	10.1	31.2	41.2	55.3	69.0	*72.8	*68.6	(62.0)	49.8	30.1	(17.0)	(43.1)	97	—26	May 4	Oct. 31
Estherville	12.6	.....	.....	.....	*54.4	†72.2	.....	65.8	.....	.....	.....	.....	.....	.....	.....	May 4	.....
Fairfield (a)	*11.1	18.9	.....	50.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 21	.....
Fayette	5.2	13.0	29.4	42.8	54.0	69.6	73.6	69.2	*67.7	50.5	32.5	19.2	43.9	99	—24	May 4	.....
Fort Madison (a)	16.9	25.0	39.5	52.4	62.6	75.6	79.3	74.3	69.2	57.4	38.8	29.0	51.7	95	—12	Apr. 21	Sept. 25
Fulton (a)	6.8	16.1	32.3	46.5	.....	.....	.....	*68.9	64.9	52.2	32.8	.....	.....	.....	—26	Apr. 22	Sept. 26
Galva	12.6	14.4	.....	*44.1	.....	.....	.....	68.3	64.6	*50.4	33.5	18.3	.....	.....	—20	.....	Sept. 16
Glenwood	*18.1	22.1	37.9	*52.0	61.3	(75.0)	(79.0)	73.6	71.4	58.4	40.0	28.5	(51.4)	.....	—18	May 2	Sept. 16
Grand Meadow (a)	5.1	14.4	28.9	42.1	54.7	68.8	72.0	66.8	61.1	50.4	32.3	20.0	43.0	92	—24	Apr. 28	Sept. 25
Greenfield (a)	9.8	15.7	31.4	46.0	56.6	71.2	75.2	69.2	65.1	51.2	33.9	23.5	45.7	98	—21	May 3	Sept. 25
Grinnell	8.7	17.9	32.5	44.8	54.9	.....	.....	.....	*62.1*	55.1	*38.7	22.2	.....	.....	—17	Apr. 22	Sept. 25
Grundy Center (a)	6.7	15.0	30.6	43.4	*54.7	†74.5	74.6	67.9	62.5	50.1	31.2	20.5	44.3	96	—22	Apr. 23	Sept. 25
Hampton (a)	4.7	11.4	26.2	40.4	53.7	68.9	72.1	*66.1	60.7	48.6	30.0	17.7	41.7	96	—23	May 4	Sept. 25
Hopeville	11.8	18.5	33.8	46.7	57.4	69.8	75.2	70.9	67.1	*58.2	(35.0)	25.2	(47.4)	95	—18	May 2	Sept. 25
Hopkinton (c)	10.1	18.9	32.8	46.0	56.5	71.0	75.4	71.0	67.6	*55.2	*37.4	23.3	47.2	98	.....	.....	Oct. 14
Independence	4.4	12.3	29.2	42.3	54.8	69.3	*73.9	*67.9	63.6	53.1	33.9	20.0	43.7	.....	—23	May 3	Sept. 25
Indianola	*10.9	18.8	35.0	47.7	58.0	*70.4	(76.0)	(71.0)	64.7	*57.5	*36.7	*23.3	(47.5)	.....	—17	May 3	Sept. 25
Iowa City	10.2	18.6	34.6	48.5	57.4	71.4	75.2	70.4	65.2	54.3	36.6	25.3	47.3	99	—20	May 3	Sept. 26
Iowa Falls	3.8	11.4	26.6	41.1	*54.4	69.4	72.3	67.8	62.6	*49.0	*31.0	*16.7	42.2	97	—26	May 4	Sept. 25
Jefferson	(10.0)	16.8	30.8	47.0	58.6	71.5	75.4	69.2	66.0	*55.1	36.5	21.7	(44.6)	97	—22	May 3	Sept. 23
*Keokuk	14.2	21.3	36.6	49.9	59.8	73.3	78.2	72.2	68.6	56.6	38.9	29.0	49.9	97	—12	Apr. 15	Oct. 15
Keosauqua	14.4	22.0	36.8	49.8	59.4	72.9	78.2	72.2	*68.5	*57.1	38.2	27.1	49.7	98	—11	Apr. 23	Sept. 26
Knoxville	.....	.....	.....	.....	.....	*72.5	76.0	70.2	66.4	54.2	34.9	21.7	.....	97	.....	.....	Oct. 15
Larrabee	9.0	12.7	26.9	42.8	55.8	71.2	74.0	68.4	63.7	49.0	31.9	17.4	43.6	97	—23	May 3	Sept. 15
Logan	14.8	17.4	31.1	47.3	58.5	71.8	74.8	70.0	66.8	55.9	35.0	23.5	47.2	97	—16	May 2	Sept. 25
Maquoketa (a)	7.2	16.0	31.8	45.8	57.4	(71.0)	75.0	69.3	62.3	47.7	33.3	*23.6	(45.0)	.....	.....	Apr. 23	Sept. 24
Marshall	10.1	17.4	35.0	47.1	57.1	70.8	74.0	69.7	64.2	53.6	.....	.....	.....	.....	—17	May 6	Sept. 25
Mason City	.....	.....	.....	.....	.....	70.4	*75.1	67.0	62.4	*48.6	.....	.....	.....	.....	.....	.....	Sept. 25
Maxon (a)	*9.1	17.5	32.7	46.8	58.7	72.4	77.4	71.4	66.8	53.7	38.3	23.4	47.2	96	—18	Apr. 23	Oct. 15
Mechanicsville	7.5	15.1	31.4	44.2	54.9	69.3	74.9	67.8	63.0	50.5	33.1	21.2	44.4	94	—18	May 4	Sept. 25
Monticello (a)	6.1	14.6	29.2	43.0	55.5	70.9	74.1	68.2	62.6	49.0	31.0	20.2	43.8	95	—22	May 4	Sept. 25
Mount Ayr	16.4	20.9	34.8	48.9	59.0	71.9	*76.8	72.0	71.2	.....	.....	*28.9	.....	94	—15	Apr. 8	.....
Mount Pleasant (b)	11.6	19.9	34.8	48.8	57.4	71.4	*75.4	69.4	64.8	53.0	(35.0)	26.7	(47.2)	90	.....	Apr. 15	Sept. 26
Mount Vernon (a)	7.9	17.4	32.7	47.0	57.9	73.0	77.4	(71.0)	65.9	52.0	34.2	22.4	(46.6)	.....	—20	Apr. 23	Oct. 21
Murray	10.8	18.4	33.7	46.4	56.8	*70.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 2	Oct. 4
Muscatine (a)	10.3	19.5	34.7	47.8	55.0	71.2	75.7	69.8	64.5	53.9	35.3	25.3	46.9	95	—19	.....	Sept. 26

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Iowa—Continued.																	
Newton	9.1	16.9	33.5	46.3	57.4	72.0	74.6	70.0	64.6	53.2	34.3	21.4	46.1	95	—19	May 3	Sept. 25
Osage (*c*)	2.6	9.7	23.8	36.6	52.6	68.6	71.3	64.4	57.0	46.2	27.3	16.1	39.8	.....	.....	May 23	Sept. 24
Oskaloosa (*a*)	10.3	18.8	33.8	46.8	57.6	70.8	75.4	69.2	65.0	52.7	34.5	23.2	46.5	99	—21	May 3	Sept. 25
Ovid (*a*)	.....	.....	.....	.....	[1]59.9	70.0	76.0	70.9	67.6	53.2	34.7	25.5	.....	96	.....	.....	Sept. 25
Panama	12.2	15.9	30.3	45.8	56.7	69.6	74.2	68.4	66.0	53.1	35.0	*22.1	45.8	96	—18	May 3	Sept. 26
Richland (*a*)	8.6	18.2	32.3	47.0	58.4	71.4	76.1	70.1	65.5	53.8	33.5	22.4	46.4	.....	.....	Apr. 22	Oct. 14
Rock Rapids	.....	.....	.....	.....	56.2	70.7	74.9	68.2	61.8	47.5	31.6	17.7	.....	99	.....	May 5	Sept. 16
Sac City (*a*)	8.2	11.2	26.6	41.4	51.5	70.3	74.8	67.7	.....	.....	.....	18.8	.....	.....	—21	May 3	.....
Seymour	.....	.....	.....	49.2	58.2	70.6	76.5	70.2	65.3	53.7	.....	27.6	.....	98	.....	May 2	Sept. 25
Sibley	.....	.....	.....	.....	55.2	69.1	69.2	66.4	60.9	.....	30.4	16.2	.....	93	.....	May 15	Sept. 16
*Sioux City	12.6	15.2	29.1	44.6	57.0	72.2	75.2	70.0	65.7	51.2	33.9	20.0	45.6	97	—21	May 3	Sept. 25
Spirit Lake	5.9	.....	.....	.....	.....	.....	75.7	.....	.....	49.0	32.2	16.6	.....	.....	.....	.....	Sept. 25
Storm Lake	11.1	13.9	27.4	42.9	56.3	72.4	74.8	71.0	66.6	51.7	33.8	18.6	45.0	95	—21	Apr. 29	Sept. 25
Tipton	9.3	16.8	33.8	45.3	57.5	71.4	76.0	(70.0)	64.8	48.7	34.8	23.6	(46.1)	.....	—18	Apr. 23	Sept. 25
Villisca	18.0	21.5	33.5	49.6	59.7	73.1	78.1	70.0	63.2	53.2	38.4	24.2	48.5	95	—19	Apr. 27	Sept. 24
Vinton (*a*)	6.6	15.9	31.2	*44.4	55.8	70.4	74.6	69.1	63.4	51.3	32.7	21.0	44.7	94	—17	Apr. 23	Sept. 27
Washington (*a*)	11.9	20.6	36.6	49.0	59.0	76.5	80.8	74.4	68.4	54.9	36.9	25.9	49.6	100	—15	Apr. 23	Oct. 14
Webster City (*a*)	8.6	13.3	28.2	41.1	54.7	70.5	75.3	68.7	65.4	50.3	31.0	21.0	44.0	99	—26	May 4	Sept. 25
West Bend (*a*)	.....	.....	[2]38.2	54.6	[2]70.3	.....	.....	67.0	61.1	46.8	29.0	16.0	.....	.....	.....	May 2	Sept. 25
Williams (*a*)	5.1	12.5	27.4	41.3	54.5	68.7	72.6	[2]68.4	*61.4	49.7	30.2	18.3	42.5	96	—24	May 3	Sept. 25
Winterset	11.8	17.4	33.2	46.6	57.8	70.9	76.4	70.8	66.2	54.8	(36.0)	25.0	(47.2)	100	—18	May 2	Sept. 25
Kansas.																	
Abilene	27.0	30.6	44.8	58.4	64.0	75.3	(80.0)	73.8	70.3	58.9	41.4	36.9	(55.1)	.....	— 8	Apr. 23	Oct. 13
Achilles (*c*)	.....	.....	.....	.....	.....	.....	[2]76.2	69.0	62.1	*44.8	*29.6	26.8	.....	.....	.....	.....	Sep. 25
Allison (*b*)	25.6	22.9	33.5	50.0	60.4	75.4	79.8	73.2	66.2	49.8	33.4	29.2	50.0	104	—10	Apr. 16	Oct. 13
Altoona (*c*)	24.0	27.4	40.9	55.3	62.6	74.6	78.2	74.2	70.4	54.2	37.8	36.2	53.0	104	— 1	Apr. 15	Oct. 26
Atchison	21.5	26.2	39.2	53.2	61.4	73.5	78.2	73.2	70.2	58.4	40.2	33.2	52.4	100	—10	Apr. 22	Oct. 15
Beloit	.....	.....	.....	.....	60.5	74.3	79.4	72.2	68.1	56.7	41.2	37.0	.....	104	.....	Apr. 20	Oct. 14
Buffalo Park (*c*)	36.2	34.8	31.1	56.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 30[1]	.....
Cawker City (*a*)	28.5	28.8	40.0	54.2	.....	75.4	79.3	74.6[2]	69.8	56.4	38.8	36.7	.....	104	—14	Apr. 15	Oct. 12
Colby	31.1	27.6	36.1	47.6	57.4	72.8	76.6	70.8	[2]66.7	52.6	37.5	34.4	51.0	100	—11	May 2	Oct. 12
Coldwater	32.1	30.4	44.0	56.6	63.0	77.6	81.7	75.3	[2]69.9	57.8	[2]40.8	38.9	55.7	110	— 5	May 1	Oct. 28
Collyer (*c*)	31.0	28.1	37.1	51.1	60.2	76.0	79.9	82.2	(70.0)	66.6	47.8	32.5	(55.2)	108	—10	Apr. 30[1]	Nov. 2[1]
Columbus	27.6	31.1	43.4	58.1	63.4	73.6	79.6	75.0	72.4	60.0	42.0	39.6	55.5	103	— 2	Apr. 15	Oct. 15
*Concordia	27.0	27.4	38.8	53.6	60.8	74.9	78.6	73.4	70.4	57.2	39.4	35.6	53.0	103	—11	May 1	Oct. 14
Cunningham	23.4	27.8	41.3	54.5	62.1	76.0	81.2	75.4	71.2	*55.4	40.4	37.0	54.3	107	— 4	May 1	Oct. 13
*Dodge City	34.0	31.0	42.2	53.5	60.4	75.0	79.4	73.8	70.4	56.8	40.4	38.6*	54.6	106	— 7	May 23	Oct. 12
Elco (*a*)	26.1	30.1	42.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mch. 28[1]	.....
El Dorado	30.6	30.8	49.9	.....	.....	74.6	80.8	78.0	72.0	60.5	42.3	35.7	.....	106	— 6	Apr. 15	Oct. 24
Elk City (*a*)	27.6	32.2	46.2	59.0	64.0	74.8	79.8	76.2	74.3	59.8	42.5	40.6	56.5	105	5	Apr. 27	Oct. 29
Ellis (*c*)	35.0	32.0	41.1	52.0	.....	75.4	78.8	76.6	.....	.....	47.4	38.9	.....	.....	.....	.....	Nov. 11[1]
Emporia (*a*)	26.5	31.5	42.2	56.0	63.0	77.3	78.2	75.1	70.9	57.0	40.4	37.9	54.7	.....	— 4	Apr. 21	Oct. 14
Englewood	31.4	29.4	44.0	57.0	62.2	*76.2	83.4	72.6	71.6	59.3	43.0	41.2	55.9	113	— 4	May 2	Oct. 25
Eureka Ranch	31.0	28.0	38.6	52.6	59.6	76.5	78.8	73.2	69.0	53.6	37.1	35.4	52.8	111	—11	May 23	Oct. 12
Fort Riley	21.4	30.0	40.3	56.2	62.4	73.4	79.5	74.2	70.6	53.6	41.8	(36.0)	[2]53.2)	103	— 7	.....	Nov. 3[1]
Garden City	.....	.....	.....	.....	.....	.....	.....	.....	67.4	52.9	39.4	36.2	.....	.....	.....	.....	Oct. 12[1]
Gibson (*a*)	30.2	26.9	36.3	50.3	58.9	74.3	74.8	69.2	66.6	51.0	35.0	33.3	50.1	111	— 7	May 1	Oct. 12[1]
Gove (*a*)	29.4	26.9	37.1	49.4	58.8	77.2	77.1	72.5	67.4	53.5	36.8	34.2	51.7	108	— 9	May 23	Oct. 26[1]
Grainfield (*f*)	30.4	28.2	.....	.....	58.4	74.2	75.6	74.5	77.3	61.6	44.6	41.1	.....	106	— 6	Apr. 29	Oct. 12
Greensburg	33.0	29.6	40.1	52.8	60.6	74.9	.....	.....	.....	.....	.....	.....	.....	.....	— 2	May 1	.....
Grenola (*a*)	30.6	*30.8	[3]45.2	[3]59.4	[3]64.0	[3]74.8	[2]82.0	[2]77.2	*76.2	57.2	*41.0	40.0	56.3	111	— 2	Apr. 21	Oct. 15
Grinnell (*c*)	27.8	30.1	36.0	56.0	66.8	79.2	82.8	77.0	71.1	54.2	37.2	33.0	54.3	110	— 8	Apr. 29	Oct. 22[1]
Halstead	.....	.....	.....	.....	.....	72.5	78.1	71.4	68.8	56.2	.....	38.0	.....	98	.....	.....	Oct. 13[1]
Havensville (*a*)	19.8	23.7	37.2	51.2	59.2	72.8	76.5	71.5	67.0	.....	.....	.....	.....	100	— 8	May 23	.....
Hays City	37.0	.....	42.9	56.1	64.0	71.7	74.1	70.2	69.5	53.3	38.5	*36.4	.....	109	.....	May 1[1]	Oct. 5[1]
Hesston	25.8	25.9	39.8	53.2	59.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	— 8	May 2	.....
Horton	29.4	26.4	38.8	*53.6	61.2	73.0	77.2	71.8	69.8	56.8	40.1	33.1	51.8	99	— 9	Apr. 23	Oct. 15
Hutchinson	33.8	31.8	44.4	57.1	62.4	74.6	80.2	75.2	72.4	61.1	44.2	41.2	56.5	109	— 4	Apr. 21	Oct. 27
Independence (*a*)	28.6	31.4	44.9	58.1	63.6	73.9	79.3	75.3	73.2	56.8	41.8	39.8	55.7	109	0	Apr. 27	Oct. 15
Kansas City (*a*)	21.8	27.8	40.0	53.6	61.0	72.1	76.9	71.6	.....	.....	.....	.....	.....	96	— 7	Apr. 23	.....
Kellogg	28.6	29.6	45.0	58.5	64.2	76.0	84.0	*76.7	75.3	.....	.....	.....	.....	110	— 6	Apr. 27	.....
Kiowa	37.1	32.4	47.9	60.0	65.2	78.4	84.7	77.0	73.4	59.4	45.8	41.3	58.6	111	— 1	Apr. 21	Oct. 27
La Crosse	32.9	31.2	41.8	56.4	65.3	79.4	.....	75.8	72.8	.....	.....	.....	.....	.....	— 5	Apr. 29	.....
Lakin	36.8	34.0	44.4	52.8	65.4	73.4	77.6	71.2	65.6	.....	.....	45.7	.....	.....	.....	Apr. 30[1]	Sept.25[1]
Lawrence (*a*)	22.4	27.1	40.1	54.3	61.9	72.7	78.1	71.9	63.2	55.9	39.3	35.6	52.4	99	— 6	Mar. 26	Oct. 15
*Leavenworth	21.8	26.6	39.8	53.4	61.1	73.2	78.0	72.8	70.5	58.2	.....	.....	.....	100	— 8	Apr. 14	Oct. 3
Lebo	24.5	30.1	42.2	57.3	61.8	72.6	78.1	73.8	70.6	57.6	41.8	37.5	54.0	104	— 9	Apr. 15	Oct. 15
Leoti	32.8	30.7	38.8	50.1	59.4	73.8	76.8	*72.5	*68.6	52.6	37.8	35.7	52.5	107	—10	Apr. 14	Oct. 2
Liberal	33.8	32.5	42.9	54.2	61.6	77.7	82.2	[3]74.0	.....	.....	40.9	.....	.....	108	— 4	Apr. 21	Nov. 2[1]
McAllaster	23.2	21.3	31.1	55.7	66.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 30	.....
Macksville	.....	.....	.....	.....	61.3	76.8	*80.6	75.0	*69.8	56.5	42.0	38.2	.....	112	.....	May 23	Oct. 4
McPherson	27.6	27.0	40.4	55.8	62.0	74.6	79.8	74.8	70.0	57.4	41.2	38.1	54.1	102	— 6	May 1	Oct. 6
Manhattan (*a*)[1]	23.0	26.7	39.7	54.4	60.8	74.0	78.6	72.3	69.0	55.4	37.2	34.2	52.1	109	— 6	Apr. 23	Oct. 15
Manhattan (*a*)[2]	21.4	23.9	*37.8	*53.6	*58.3	*72.6	78.1	*70.8	67.0	52.4	34.8	*31.1	50.2	104	— 6	.....	Oct. 14
Mankato (*a*)	*24.0	25.2	36.6	50.2	58.4	73.4	75.8	74.0	69.9	55.4	37.6	32.6	51.1	100	—13	May 23	Oct. 14
Marion (*a*)	26.1	27.6	[4]42.4	55.2	61.5	73.3	78.6	73.7	.....	55.2	38.8	35.6	.....	102	— 5	Apr. 15	Oct. 15
Minneapolis	28.2	27.2	40.2	54.9	61.0	74.9	80.0	73.2	69.2	56.8	39.5	35.4	53.3	106	— 8	May 23	Oct. 13
Monument (*a*)	26.4	22.9	31.0	44.5	56.8	73.4	78.2	76.5	*68.4	52.4	38.5	35.4	50.4	105	—18	May 1	Oct. 14
Moreland	30.6	27.8	37.0	49.9	58.6	73.7	77.6	71.3	68.6	53.5	39.0	35.6	51.9	106	—11	May 2	Oct. 2
Morse	20.4	25.6	38.9	52.8	59.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	— 9	Apr. 23	.....
Morton	37.2	33.8	43.7	53.9	62.8	77.6	81.4	75.2	69.7	55.6	41.8	39.1	56.0	109	— 1	Apr. 30	Oct. 25
Mount Hope (*a*)	.....	.....	44.6	58.4	64.8	[4]76.2	81.4	76.7	74.0	59.8	42.9	39.1	.....	103	.....	May 2	Oct. 29
Ness City	.....	.....	.....	.....	.....	.....	81.2	76.5	74.2	61.3	.....	.....	.....	.....	.....	.....	.....
Norton	.....	.....	.....	*49.4	60.5	75.4	*78.2	72.8	.....	.....	.....	*32.9	.....	103	.....	May 1[1]	.....
New England Ranch	31.7	28.8	38.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Olathe	.....	.....	.....	.....	.....	72.4	77.8	72.5	70.5	58.0	41.2	35.4	.....	101	.....	.....	Oct. 27

[1] Prof. E. R. Nichols.

[2] C. P. Blachly.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Kansas—Continued.																	
Oswego	28.8	[a]29.4	45.0	56.9	63.9	74.3	80.7	76.5	72.3	59.2	43.6	37.2	55.7	108	— 7	Apr. 15	Oct. 14
Page City (*a*)	28.0	30.2	37.5	44.4	58.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 23	.....
Pauline	25.8	[a]27.4	42.2	55.0	62.0	75.4	81.5	75.2	72.6	.....	41.4	37.9	.....	105	0	May 2	Nov. 4
Phillipsburg	27.2	29.5	37.4	52.7	67.5	73.7	74.9	72.6	73.1	55.0	46.2	26.6	52.2	106	—15	May 2	Oct. 11
Plainville	.....	.....	.....	.....	55.8	79.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 15	.....
Pleasant Dale (*a*)	28.0	26.5	38.5	51.8	60.1	74.3	78.0	72.0	68.0	54.5	38.1	37.0	52.2	109	—13	May 2	Oct. 12
Quinter (*a*)	25.0	30.2	41.9	.....	62.6	84.0	83.8	76.8	73.6	54.8	38.5	38.1	.....	108	— 8	May 6	Nov. 2
Rome (*a*)	32.1	33.3	45.9	58.1	63.7	[a]75.6	81.5	76.4	73.5	59.4	42.2	40.4	56.8	106	1	May 1	Nov. 13
Salina	28.6	28.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sedan (*a*)	29.7	31.4	45.0	58.8	64.5	75.2	81.5	76.9	75.6	59.8	42.7	40.4	56.8	107	— 2	Apr. 21	Oct. 27
Sharon Springs (*a*)	30.8	35.8	45.8	54.4	61.2	73.9	76.9	72.2	73.1	.....	.....	36.7	.....	108	— 1	Apr. 30†	Oct. 11
Shields	36.2	35.7	41.0	54.4	60.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 23	.....
Sterling	33.2	32.8	45.0	59.2	64.7	76.9	82.4	76.0	74.2	60.0	43.6	40.1	57.3	105	— 5	Apr. 29	Oct. 20
Syracuse	32.4	31.6	37.8	52.2	60.6	73.0	76.5	71.2	[a]67.0	.....	.....	.....	.....	101	— 5	May 23	Oct. 6
*Topeka	24.2	28.8	41.3	55.8	62.0	73.3	78.8	73.4	71.2	58.7	42.6	36.6	53.9	104	— 6	Apr. 23	Oct. 15
Topeka	25.4	27.0	39.9	55.0	60.3	.....	.....	.....	68.4	59.8	41.4	[a]34.4	.....	.....	— 8	Apr. 23	Oct. 15
Tribune	33.6	30.2	38.8	49.9	58.7	73.6	77.4	[a]74.7	[a]67.2	[a]51.9	[a]40.0	35.4	55.6	105	— 7	May 23	Oct. 2
Ulysses	[a]38.2	[a]35.0	[a]43.2	[a]55.6	[a]62.6	78.2	82.2	[a]76.2	.....	.....	.....	.....	.....	111	— 1	May 1	.....
Wakefield (*a*)	26.4	29.3	41.4	55.7	63.9	76.6	80.5	75.7	72.4	58.6	[a]41.8	36.7	54.9	106	—4	Apr. 14	Oct. 25
WaKeeney (*a*)	33.8	22.8	37.1	51.7	63.2	79.2	79.2	73.8	70.1	55.2	39.8	35.4	53.4	100	—11	Apr.30†	Nov. 24
Wallace (*f*)	34.9	31.8	42.3	55.0	65.4	81.3	84.0	76.0	76.3	51.4	39.7	44.1	56.8	106	—8	Apr. 29	Oct. 2
Wamego (*a*)	24.2	27.5	40.7	54.3	61.4	74.8	79.6	73.9	70.6	56.4	38.0	34.0	53.0	104	—4	Apr. 15	Oct. 15
Washington	.....	.....	.....	.....	60.2	73.6	77.8	[a]72.7	[a]69.0	55.0	37.6	32.0	.....	105	.....	May 2	Oct. 15
*Wichita	30.6	31.5	44.9	57.8	63.1	74.8	80.6	75.0	72.8	59.8	42.4	39.7	56.1	104	—2	Apr. 21†	Oct. 15
Winona (*c*)	.....	29.9	34.8	46.4	62.8	79.6	79.0	72.5	72.0	58.4	.....	33.6	.....	110	.....	May 2	Oct. 26
Kentucky.																	
Bowling Green (*a*)	30.7	.....	43.7	57.0	60.8	69.8	76.2	72.0	66.4	53.9	43.1	39.0	.....	94	.....	.....	Oct. 29
Caddo (*a*)	19.5	36.2	44.8	52.6	61.1	72.0	82.1	74.0	68.5	56.8	43.2	.....	.....	96	—14	.....	.....
Canton (*a*)	30.3	40.2	47.2	61.0	64.8	74.2	78.8	76.1	.....	56.2	45.9	40.6	.....	97	0	.....	Oct. 29
Carrollton (*a*)	20.6	33.7	42.2	53.8	62.1	74.7	80.5	76.3	69.8	56.3	43.8	42.6	54.7	100	—14	.....	Oct. 28
Catlettsburg (*e*)	22.8	36.3	44.0	59.6	65.4	76.7	81.4	75.4	71.2	57.3	43.9	39.4	56.1	97	—8	.....	Oct. 30
Central City (*a*)	[a]25.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Earlington (*a*)	31.8	41.4	49.2	62.4	66.6	75.5	81.1	76.6	71.8	59.4	48.0	41.4	58.8	99	3	.....	.....
Edmonton	26.5	36.2	43.6	58.0	61.8	71.6	76.5	73.2	67.0	55.4	43.8	[a]39.4	54.4	92	—5	.....	Oct. 16
Eubank (*a*)	.....	.....	.....	.....	.....	69.3	74.7	71.1	65.7	55.3	43.0	37.4	.....	94	.....	.....	Oct. 16
Franklin (*a*)	30.4	40.1	47.4	61.6	65.1	74.5	80.3	77.2	71.4	58.6	47.1	41.4	57.9	98	—2	.....	Oct. 15
Greendale (*a*)	.....	.....	.....	.....	52.5	72.7	77.7	73.7	68.3	55.8	39.0	36.3	.....	95	.....	.....	Oct. 16
Greensburg (*a*)	27.1	40.1	46.1	58.3	62.3	72.2	76.9	72.4	67.8	57.2	43.4	38.2	55.2	92	—9	.....	Oct. 30
Hartodsburg (*a*)	24.3	37.3	43.9	56.3	61.9	72.2	78.1	73.9	68.0	56.9	43.6	39.0	54.5	101	—13	.....	Oct. 16
Hendricks	27.2	42.6	46.1	60.3	63.1	.....	.....	.....	.....	.....	48.2	.....	.....	.....	.....	.....	.....
La Grange	[a]23.3	[a]32.6	[a]49.6	[a]54.2	.....	[a]72.8	[a]79.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Lexington	23.1	36.5	43.2	56.7	61.1	72.4	78.6	74.0	70.2	57.3	42.8	37.0	54.4	95	—11	Apr. 24	.....
Louisa	21.1	37.9	43.0	58.1	63.1	73.0	78.4	73.2	68.6	55.3	42.8	38.4	54.4	99	—22	.....	.....
*Louisville	24.9	36.2	45.2	57.4	63.3	74.6	80.8	76.6	71.8	58.2	44.4	38.6	56.6	97	—10	Mch. 29†	Oct. 16
Matlock (*a*)	30.6	40.7	48.2	63.1	65.4	73.8	79.2	76.7	.....	54.8	47.4	.....	.....	96	— 4	.....	.....
Middlesboro	24.8	40.9	45.2	59.1	61.3	70.6	[a]73.0	71.2	64.7	53.2	46.3	[a]43.0	54.4	93	—10	.....	Oct. 16
Mount Sterling (*a*)	21.8	35.7	41.4	54.5	59.5	70.0	75.7	71.3	67.2	55.2	41.8	37.2	52.6	93	—13	.....	Oct. 28
Munfordsville (*a*)	.....	.....	[a]44.0	61.3	[a]63.0	74.1	76.8	73.7	70.6	57.8	46.0	40.6	.....	95	.....	.....	.....
Paducah (*a*)	31.0	38.9	49.7	62.0	66.1	76.1	83.9	80.4	74.1	59.7	46.8	40.2	59.0	100	4	.....	.....
Pellville	26.3	38.7	45.4	59.0	63.6	73.8	79.2	[a]74.4	71.0	56.8	45.7	38.8	56.0	97	—10	.....	Oct. 29
Princeton	26.3	35.7	43.2	60.0	63.7	74.9	79.9	76.8	70.2	56.0	43.0	38.1	55.6	101	— 3	.....	.....
Russellville (*a*)	23.4	38.9	46.4	60.5	64.4	73.5	78.9	75.5	70.1	59.1	45.7	40.8	56.9	95	— 2	.....	Oct. 16
Shelby City (*a*)	25.7	38.0	45.4	57.8	61.2	71.0	75.9	73.1	68.4	56.9	44.2	38.1	54.6	92	— 7	.....	Oct. 16
Shelbyville (*a*)	22.8	36.3	43.8	55.8	62.0	72.0	78.3	74.3	69.0	56.2	43.4	36.4	54.2	100	—15	.....	.....
South Fork (*b*)	22.7	38.6	42.6	58.0	61.1	71.2	74.8	70.4	64.8	.....	.....	.....	.....	.....	.....	.....	Oct. 28
Springfield	22.4	35.4	42.7	57.0	62.9	[a]71.2	75.8	74.5	68.8	.....	.....	.....	.....	97	—16	.....	.....
West Point (*b*)	25.1	36.5	44.9	54.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wickliffe (*a*)	29.7	36.7	46.9	61.4	64.9	74.6	80.2	75.7	69.9	.....	.....	.....	.....	96	2	.....	.....
Williamsburg	25.6	41.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Louisiana.																	
Abbeville	50.4	60.1	59.7	71.4	[a]74.9	78.9	82.9	78.8	78.5	68.4	60.0	59.0	68.6	97	34	.....	Nov. 15
*Alexandria	45.0	54.2	54.6	70.4	73.2	77.8	78.8	76.8	75.0	61.2	52.4	49.4	64.0	98	19	.....	Nov. 16
*Amite	49.5	57.3	62.0	69.6	76.9	79.0	82.4	80.4	77.0	64.2	56.4	57.6	68.2	99	23	.....	.....
Baton Rouge	47.6	58.0	58.8	70.4	73.9	78.5	81.0	78.8	76.6	65.0	57.4	53.8	[a]66.7	93	25	.....	Dec. 4
Calhoun (*a*)	44.7	50.5	55.0	68.5	[a]71.4	78.2	84.6	79.0	73.9	62.6	52.2	49.4	64.0	97	18	.....	.....
Cameron	50.0	55.8	58.4	69.4	73.4	77.6	79.6	78.2	77.0	65.6	59.5	60.5	67.1	99	18	.....	.....
*Cheneyville	48.9	58.4	59.6	72.7	75.0	81.4	81.4	79.2	[a]76.7	.....	.....	.....	.....	96	22	.....	Nov. 15
Clinton	.....	.....	68.8	.....	.....	.....	87.2	85.7	.....	.....	.....	.....	.....	102	.....	.....	Oct. 29
*Coushatta	47.4	57.0	55.8	69.4	72.4	79.1	83.4	81.0	75.8	63.1	56.6	51.9	66.1	100	29	.....	.....
*Covington	42.8	54.2	.....	.....	72.8	77.0	78.5	76.4	73.2	60.4	49.6	.....	.....	.....	.....	.....	.....
Davis	43.0	[a]51.5	[a]58.6	68.2	70.7	78.1	81.1	78.0	73.2	59.2	[a]51.4	[a]46.5	62.9	98	16	.....	Nov. 15
Donaldsonville	51.6	62.9	59.4	73.2	75.0	80.4	83.5	81.5	79.1	67.8	60.2	57.0	69.3	95	30	.....	Nov. 16
Emilie	48.9	60.0	59.2	70.9	75.0	80.0	81.2	80.1	77.7	65.5	57.7	55.8	67.7	95	26	.....	Dec. 5
Farmerville	42.9	48.0	[a]54.5	68.6	70.9	78.0	82.0	79.6	77.8	61.6	52.2	49.4	63.6	96	19	.....	Oct. 25
Franklin	50.2	61.0	61.6	[a]71.8	[a]76.0	[a]80.6	.....	80.7	81.6	67.2	59.4	57.8	.....	98	26	.....	Dec. 4
Girard	.....	.....	.....	.....	67.9	78.2	83.4	80.9	72.8	60.0	49.2	[a]47.4	.....	99	.....	.....	Oct. 28
Grand Coteau (*a*)	49.7	59.5	[a]59.5	[a]72.2	73.4	79.4	82.0	78.7	77.8	65.1	58.4	57.8	68.1	94	28	.....	Dec. 4
Hamburg	.....	.....	.....	.....	[a]74.5	79.7	81.4	78.6	.....	.....	.....	.....	.....	.....	.....	.....	Dec. 4
Hammond	.....	.....	.....	[a]69.2	74.4	79.7	82.4	80.3	72.6	64.0	56.1	55.6	.....	97	.....	.....	Nov. 15
Homer	44.0	49.0	54.1	68.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Houma	50.3	60.4	60.1	72.4	76.1	80.3	.....	.....	.....	.....	[a]61.5	60.0	.....	.....	.....	.....	Dec. 5
Jeanerette	50.6	60.6	59.6	72.1	75.4	81.4	83.2	81.2	[a]80.2	69.3	60.0	58.0	69.3	99	24	.....	Nov. 15
*Lafayette	51.1	60.2	59.8	73.1	76.2	81.6	83.6	81.7	79.9	67.7	59.8	58.6	69.4	100	24	.....	Nov. 15
Lake Charles	50.1	57.7	60.7	70.8	76.4	81.8	82.3	79.0	[a]80.4	[a]70.6	59.2	54.2	68.6	97	21	.....	Dec. 4

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Louisiana—Continued.																	
Lake Providence		[a]52.8	[a]56.	73.0	74.4[c]	81.9	83.0	79.3	74.2	62.2	53.0	49.1		100	22		Oct. 15
Lawrence	[a]51.4	61.4	[a]61.4		76.2	80.5	[a]83.7	82.0	[a]79.6	68.0	[a]59.8			97	33		
Liberty Hill	47.2	52.4	55.8	70.0	72.8	79.4	84.3	81.4	77.5	[a]67.4				105	21		Oct. 15
Many		54.2	57.5	70.4	74.9	70.8	84.3	81.6	77.4					99			
Manrepas	47.7	59.8	57.3	72.3	75.8	80.7	84.2	81.6	79.0	66.0	57.6	56.0	68.2	101	20		Nov. 15
Melville	49.6	61.8	61.6	72.9	79.6			78.4	[a]77.8	68.2	62.5	61.0			26		Nov. 15
*Minden				[a]65.2	72.6	79.6	83.2	80.8	77.8	65.6	53.8	53.6		101			
*Monroe	46.5	55.0	56.8	69.8	73.1	80.2	83.2	80.8	77.0	60.6	55.4	52.2	65.9	98	23		Oct. 15
*Natchitoches			56.1	68.3	72.2	75.0	81.2	78.0	74.4	62.5	53.4	52.7		98			
New Iberia	49.0	[a]58.5	60.0	[a]73.8	74.2	80.0	82.7	81.1	79.3	66.6	[a]57.4	59.7	68.5	96	27		Nov. 15
*New Orleans	50.2	61.2	60.8	71.6	75.8	80.2	83.1	82.0	79.8	69.1	60.3	58.4	69.4	95	29	Mar. 51	None.
*Opelousas		59.4	59.6	71.3	74.4	80.2	82.2	79.2	77.8	66.0	58.5	60.1		95	24		Oct. 29
Oxford			[a]58.3	[a]71.9	[a]73.5	77.4	82.4	79.2	74.9	62.6	53.4	51.6		102			Oct. 15
Pâincourtville	[a]52.0	60.6			75.0	80.6	83.2	80.4	77.7	64.5	57.4	56.2		97	27		Dec. 4
Plain Dealing	46.4	50.8	[a]55.3	67.6	69.2		83.4	80.8									
Plaquemine	44.2	57.9	60.5	72.6	75.2	77.7	82.7	80.8	79.8	70.5	58.6			99	26		
*Port Eads	51.6	58.8	60.4	70.5	75.2	81.9	86.0	82.3	79.7		[a]65.8	60.3		94	34		
Rayne	50.4	59.0	60.0	71.3	74.8	78.9	81.2	79.7	73.6	65.2	57.6	55.8	67.3	96	24		Dec. 8
Roseland	47.7	58.6	58.9	70.9	74.6	79.7	82.3	80.4	77.8	65.8	57.3	54.9	67.4	98	22		Nov. 15
Schriever	50.9	[a]61.3	60.6	[a]71.5	77.0	82.6	83.8	81.0	79.8								Nov. 22
Shell Beach	48.8	58.5	60.4	72.0	75.6	81.4	83.5	80.5	78.1	66.7	59.2	59.2	68.7	96	29		
*Shreveport	47.2	51.3	56.3	69.2	72.8	79.2	83.6	80.7	77.2	65.3	54.0	52.8	65.8	101	25	Feb. 18	Nov. 15
Sug. Exp. station	49.0	62.3	60.4	70.1	76.2	80.7	83.1	80.6	76.3	62.9	58.6	54.8	68.2	99	28		
Sugartown					72.6	75.2	83.2	75.4	72.1	62.8							
Wallace	49.8	60.6	60.1	71.8	76.1	80.4	82.0	80.2	78.4	66.8	59.0	56.5	68.6	97	27		Dec. 4
Winnfield					[a]74.4	78.6	81.8	79.3	76.2	63.2	55.0	53.4		98			Oct. 16
Winnsboro	44.1	53.3	53.4	66.9	69.4	76.8	79.8	76.2	74.6					99			Nov. 24
Maine.																	
Bar Harbor	[a]14.9	19.4	29.4	38.5	[a]52.2	60.1	66.8	65.5	55.0	51.2	38.5	24.6	43.0	89	—8		Oct. 30
Belfast (*f*)	14.0	19.4	29.4	39.2	54.1	61.6	67.7	67.3	55.2	50.2	36.2	18.7	42.7	87	—14		Oct. 19
Calais	13.9	18.2	28.0	38.2	53.6	63.4	65.8	66.8	53.6	49.0	37.2	19.4	42.3	90	—12		Sept. 6
Cornish (*a*)	13.2	19.0	27.8	38.0	53.6	64.8	68.0	67.1	54.0	49.4	35.2	21.5	42.6	94	—14		
East Machias	13.4	17.6	29.1	38.8			63.2		52.0	48.4	35.2	21.6					
Easton	7.0	9.9	23.8	33.0	51.7	65.2	65.2	66.2	51.0	48.2	29.6	14.4	38.8	98	—17		Sept. 26
*Eastport	15.6	19.2	28.4	36.8	48.1	56.0	61.6	62.3	53.9	49.8	37.8	22.4	41.0	90	—11	Mar. 9	Oct. 31
Fairfield	9.7	15.6	24.4	37.6	53.8	64.5	67.4	67.0	53.0	49.2	36.0	17.4	41.3	93	—36		
Farmington	13.0	15.8	25.4	36.4	53.8	65.1	67.6	66.0	54.2	49.6	34.5	18.2	41.8	102	—26		
Fort Kent	1.0	6.4	18.4	31.8	51.7	65.5		63.2	51.5	44.8	29.5	8.6					
Gardiner (*a*)	13.0	18.5	27.8	38.5	54.2	63.8	68.3	68.0	54.8	50.4	36.3	18.2	42.5	98	—21		
Houlton	6.2	9.9	22.9	34.0	51.6		65.2	66.6	51.4	48.2	30.6	9.0		97	—28		
Indian Stream	5.5	10.6	23.1														
Kennebec arsenal	8.9	15.4	[a]26.0	36.8													
Kents Hill	10.5	16.1	25.5	37.1	52.5												
Lewiston (*a*)	13.1	18.2	27.5	38.3	53.7	64.4	69.9	68.4	55.8	51.5	36.3	18.8	43.0	98	—21		
Mattawamkeag			23.3	35.1	50.5	66.6	[a]66.8	68.0	54.2								
Mayfield				34.3	51.2	63.0	65.9	65.6	50.6								Sept. 27
Orono (*a*)								65.8	53.0	49.4	34.6	15.8					Sept. 20
Petit Manan (*a*)	18.3	22.0	30.4	38.2	49.6	56.8	62.4	63.6	55.6	49.0	39.5	27.4	42.8	78	—5		
*Portland	15.2	20.2	29.4	39.0	52.1	60.5	68.3	66.8	55.8	50.8	38.5	22.0	43.2	93	—9	Apr. 26	Oct. 17
Presque Isle	5.1	10.6	21.8	32.8	50.4												
West Jonesport (*a*)	14.9	18.1	28.1	36.3	47.7	56.3	58.6	59.9	52.3	48.4	36.7	23.1	40.0	8 5	—12		
Maryland.																	
Bachman's Valley (*a*)									60.1	49.0	34.7	29.4					Oct. 17
*Baltimore	24.6	34.0	40.3	52.6	61.4	72.4	76.8	74.6	66.6	57.0	43.6	33.6	53.5	98	1	Mar. 30[1]	Oct. 17
Benedict				58.6	63.2	75.1	78.6	75.9	68.2	58.7	45.4	39.8		99			
Boettcherville (*a*)	29.7	31.6	39.3	51.4	61.5	71.7	74.7	71.7	63.1	52.8	38.6	35.2	51.0	99	—14		Sept. 29
Cambridge	27.0	38.9	44.4	57.6	66.2	76.6	81.3	78.8	71.2	61.9	48.2	41.2	57.8	97	4		
Charlotte Hall								75.0		[a]56.6	44.6	39.5					
Chestertown (*a*)											42.0	37.3					
Cumberland[1]	22.8	31.8	39.2	52.3	61.4	70.9	74.8	72.2	64.0	54.0	39.0	35.2	51.5	94	—5		Oct. 16
Cumberland[2]	25.3	32.8	42.6	55.3	64.3	75.1	77.7	74.0	66.0	56.7	44.6	40.6	54.6	97	—3		Oct. 16
Darlington	21.8	31.0	38.0	49.9	59.0	70.4	74.4	72.5	64.0	55.3	41.4	35.8	51.1	95	—5		Oct. 17
Denton (*a*)	24.5	36.0	[a]42.9	53.2	[a]63.0	72.1	75.3				46.8						
Easton	28.9	34.6	41.6	55.0	63.6	73.0	77.2	74.8	67.5	58.4	44.0	38.2	54.3	95	—1		
Edgemont	24.2	31.5	37.3	50.0													
Fallston (*a*)	22.0	31.3	37.7	50.5	59.1	69.8	73.4	71.8	63.0	54.9	40.9	35.8	50.8	97	—3		Oct. 17
Fenby (*a*)	20.5	29.6	35.5	50.6	59.2	69.6	74.2	72.8	63.2	57.6	40.8	34.8	50.7	94	—8		Oct. 30
Frederick	23.0	33.1	39.8	52.8	62.4	73.4	77.7	75.4	64.8	54.9	40.9			97	—5		Oct. 31
Glyndon (*a*)	20.9	31.0	37.0		59.4	68.3		70.5	62.0	55.4							Oct. 17
Great Falls (*c*)	28.6	34.4	40.0	54.0	62.6	72.9	77.4	74.6	65.2	55.2	42.0	37.2	53.3	96	—8		
Jewell (*b*)	24.6	36.2	42.4	56.6	63.8	74.3	78.0										
Leonardtown	25.6	36.8	42.5	52.6	62.8	72.3	78.4										
McDonogh	22.6	33.2	40.0	51.0	59.2	70.2	74.8	73.6	[a]66.2	[a]56.8	43.2			93	—3		
Mardela Springs (*a*)	23.5	36.3	40.4	53.1	61.3	71.5	75.6	75.2	65.9	56.3	45.2	39.4	53.6	94	—10		Oct. 17
Mount St. Marys (*a*)	21.6	31.1	38.2	51.3	60.9	72.3	79.2		66.2	54.2	41.0	34.6			—6		Oct. 30
New Market (*a*)	20.9	31.2	36.9	51.2	62.0	71.6	75.4	72.4	64.0	53.9	39.6	34.6	51.1	95	—4		Oct. 16
Oakland (*a*)				47.4	55.1	67.7	67.8	63.6	58.0	47.8	34.6	32.4		87			Sept. 29
Salisbury (*a*)	22.7	36.4	39.0														
Solomons	26.0	36.4	41.1	54.0	63.4	74.0	78.2	77.4	70.2	60.4	47.2	41.4	55.8	95	4		
Sunnyside (*a*)	13.1	24.4	34.0	46.2	53.2	65.0	68.6	64.4	[a]60.2	48.6	35.1	31.8	45.4	91			
Upper Marlboro					61.8	73.0	77.4	73.9	65.5	56.0	42.6	37.4					
Valley Lee (*b*)										59.3	46.9	39.5					
Westminster (near) (*a*)	19.8	30.1	36.4														
Woodstock (*a*)	22.4	33.2	39.2	52.2	60.9	[a]71.0		[a]75.2	62.7	54.1	41.8	36.0			—14		Oct. 17

[1] Howard Shriver. [2] E. T. Shriver.

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Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Massachusetts.																	
Adams	18.6	25.2	31.8	43.6	57.0	66.8	66.4	67.6	55.6	51.4	37.7	27.8	45.8	92	−9	.....	.....
Amherst (a)[1]	17.3	23.9	31.3	*43.5	56.6	66.8	67.7	68.5	56.5	*51.7	*38.2	27.5	45.8	91	−11	.....	.....
Amherst (a)[2]	15.5	22.9	30.4	42.5	56.6	66.6	67.0	68.0	55.9	51.8	37.0	25.1	44.8	94	−13	.....	.....
Amherst[3]	16.1	22.9	30.4	43.0	55.8	66.9	*68.1	69.2	55.8	52.6	38.2	25.5	45.4	96	−13	.....	.....
Andover	17.9	23.4	30.3	42.0	55.2	65.4	*68.7	.....	58.4	54.0	40.5	26.9	.....	.....	−10	.....	Oct. 17
Bedford	.....	.....	.....	43.7	55.5	64.6	69.4	68.1	57.0	52.4	38.5	26.2	.....	.....	.....	.....	Oct. 16
Beverly Farms	18.5	24.3	31.0	40.9	52.4	63.6	67.2	65.9	56.0	51.4	39.7	28.2	44.7	91	−6	.....	Sept. 3
Blue Hill (summit)	17.7	23.9	31.2	42.2	54.3	63.4	68.5	67.9	57.1	52.2	39.4	28.7	45.5	90	−6	.....	.....
Blue Hill (valley)	15.8	25.4	31.0	42.8	55.7	64.5	68.4	68.7	57.3	52.2	38.5	27.5	45.6	93	−22	.....	.....
Boston	20.7	26.8	33.8	44.4	56.3	64.8	71.4	69.6	60.0	54.8	42.2	30.4	47.9	94	−4	Apr. 26	Oct. 17
Cambridge[4]	18.8	24.9	32.4	43.8	57.0	66.8	71.2	69.9	59.6	54.5	41.0	28.7	47.4	94	−6	.....	.....
Cambridge[5]	19.8	24.2	32.1	43.3	56.2	65.8	71.7	69.6	58.6	53.2	40.0	29.4	47.0	91	−2	.....	.....
Chestnut Hill	18.8	26.0	32.9	44.6	57.7	67.3	71.7	70.4	59.2	54.2	40.7	29.2	47.7	94	−7	.....	Oct. 17
Concord	15.5	22.8	30.5	42.0	55.4	64.8	69.4	68.4	56.7	52.6	38.6	25.6	45.2	92	−15	.....	Oct. 17
Dudley (a)	16.8	22.4	29.9	41.6	55.6	65.3	71.1	69.6	57.2	52.4	38.4	27.1	45.6	94	−6	.....	Oct. 17
East Templeton (a)	.....	.....	.....	.....	.....	.....	.....	67.4	54.9	49.5	34.8	24.4	.....	.....	.....	.....	Sept. 27
Egg Rock, Nahant	19.6	24.6	30.9	41.0	50.6	60.2	67.4	66.1	57.5	52.2	40.8	30.9	45.2	87	−2	.....	.....
Fall River (a)	21.4	27.6	34.1	44.0	55.5	63.9	69.6	69.0	59.3	53.9	41.6	31.8	47.6	93	0	.....	Oct. 17
Fitchburg (a)[6]	15.9	22.6	29.8	40.9	55.4	66.0	69.5	67.5	55.5	50.6	36.8	25.4	44.7	90	−7	.....	Oct. 17
Fitchburg[7]	16.1	22.5	29.7	41.4	55.6	65.7	69.6	68.6	56.5	52.3	37.5	25.7	45.1	94	−8	.....	Oct. 17
Framingham	16.4	24.4	31.3	43.8	56.8	66.5	70.0	69.3	57.8	52.6	38.8	27.2	46.2	93	−11	.....	.....
Gilbertville	15.9	23.8	30.7	*39.8	57.2	66.7	67.9	67.8	55.5	50.9	35.7	26.3	44.8	92	−16	.....	Oct. 17
Great Barrington (a)	.....	22.2	30.0	41.6	55.6	65.7	66.7	67.5	56.0	50.4	36.7	25.6	.....	.....	.....	.....	.....
Groton[8]	15.7	21.7	29.6	40.6	55.3	65.0	68.8	67.5	56.1	51.0	36.9	24.2	44.4	90	−14	.....	Oct. 1
Groton[9]	.....	24.1	31.4	.....	57.6	72.6	.....	.....	.....	*54.1	.....	.....	.....	.....	.....	.....	Oct. 1
Hadley	.....	.....	.....	.....	.....	.....	.....	.....	55.8	50.8	35.0	24.3	.....	.....	.....	.....	Oct. 17
Hyannis (a)	23.8	29.6	35.3	43.6	56.3	67.7	72.6	72.3	63.0	55.7	44.2	36.4	50.0	94	−2	.....	Oct. 19
Kendall Green	18.1	24.4	31.6	44.0	57.6	68.1	70.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lake Cochituate	16.4	25.0	31.4	43.8	57.1	66.9	70.2	69.3	57.2	52.4	.....	26.8	.....	.....	.....	.....	.....
Lawrence	16.8	23.8	31.9	43.5	56.8	66.4	71.2	69.4	58.6	53.5	38.6	25.6	46.3	92	−11	.....	.....
Leeds	15.7	22.0	29.6	41.8	55.6	66.6	67.8	68.0	55.2	50.4	35.8	24.9	44.4	95	−14	.....	Oct. 17
Leicester	15.2	22.1	28.4	41.2	54.4	.....	.....	.....	54.7	50.9	37.0	26.8	.....	.....	−8	.....	.....
Leominster (d)	17.1	20.6	28.4	43.2	54.8	64.5	*68.4	*67.2	55.0	49.8	36.0	24.8	44.2	90	−8	.....	Oct. 17
Long Plain (d)	19.4	24.7	30.4	39.6	53.5	63.8	68.9	67.6	56.2	50.0	36.4	29.4	45.0	90	−20	.....	.....
Lowell[10]	16.4	23.0	30.7	41.8	55.2	65.4	69.7	68.5	57.0	52.7	38.6	25.2	45.4	93	−18	.....	.....
Lowell[11]	17.2	23.2	31.1	43.2	58.0	67.3	72.4	71.0	60.1	55.3	41.0	27.7	47.3	97	−10	.....	.....
Lowell[12]	16.3	23.0	30.4	40.7	56.0	66.8	70.6	69.9	57.8	53.0	38.6	25.2	45.7	94	−15	.....	.....
Ludlow Centre	14.5	21.6	27.7	40.5	53.3	64.4	65.3	66.8	53.9	50.4	35.6	23.3	43.1	93	−13	.....	Oct. 17
Lynn (a)[13]	23.4	27.8	35.0	45.5	57.4	65.3	69.8	70.6	59.8	56.4	43.1	33.2	48.5	96	−3	.....	.....
Lynn[14]	19.2	25.1	33.0	43.2	55.8	65.4	69.7	67.0	57.6	56.1	41.1	28.6	46.8	92	−5	.....	.....
Mansfield (d)	17.6	25.9	31.6	42.8	55.8	64.8	69.0	68.1	56.3	51.6	37.9	26.3	45.9	93	−14	.....	Oct. 17
Middleboro	18.9	26.7	32.8	43.0	55.4	63.9	68.6	68.0	56.8	51.9	39.0	29.3	46.2	91	−23	.....	Oct. 17
Milton (a)	19.4	26.8	31.5	42.1	54.1	62.6	67.2	66.1	56.9	51.5	40.2	30.8	45.6	90	−5	.....	Oct. 17
Monroe	12.3	19.5	26.0	37.4	50.9	64.2	64.5	64.4	51.6	47.0	32.8	23.0	41.1	89	−16	.....	.....
Monson (a)	16.6	23.6	30.9	42.6	55.6	67.2	67.8	68.8	56.9	52.1	38.2	28.8	45.8	93	−17	.....	Oct. 17
Nantucket	23.8	29.0	33.3	41.7	51.0	59.7	66.9	68.2	60.0	54.2	43.6	36.0	47.4	87	4	Apr. 8†	Nov. 1
New Bedford (a)[14]	20.4	26.6	32.4	42.2	53.3	61.9	67.2	66.8	57.5	51.9	40.7	31.5	46.0	91	−4	.....	Oct. 30
New Bedford (a)[15]	21.2	28.2	33.8	42.5	56.4	63.8	69.6	68.7	58.3	52.6	41.0	32.2	47.4	93	−3	.....	Oct. 30
North Billerica (a)	19.2	26.2	33.8	45.4	57.7	69.1	71.5	69.6	59.0	54.5	41.4	28.7	48.0	98	−10	.....	.....
Plymouth (a)	24.2	29.7	*35.0	45.8	58.2	*66.4	69.9	69.8	*60.0	54.9	43.3	33.1	49.2	88	0	.....	Oct. 30
Provincetown	23.7	27.8	33.3	41.9	54.4	63.6	70.2	69.2	59.8	53.8	*42.2	35.0	48.0	90	1	.....	Oct. 30
Roxbury	20.9	26.6	33.4	44.6	55.9	64.4	*69.8	68.6	58.4	53.9	41.4	30.3	47.4	91	−2	.....	Oct. 30
Royalston (a)	18.8	24.7	32.5	43.4	55.2	65.4	67.6	67.5	55.8	51.0	36.5	24.2	45.2	90	−4	.....	Sept. 21
Somerset (a)	20.8	28.2	34.4	46.4	59.4	68.9	74.0	73.0	62.0	55.1	42.2	32.3	49.7	98	−13	.....	Oct. 17
South Dennis (a)	22.2	27.7	32.8	41.4	53.6	62.6	69.4	68.3	58.7	53.0	41.6	34.0	47.1	90	−3	.....	Oct. 20
Springfield Armory	17.9	23.5	31.8	44.4	58.2	69.2	72.4	72.3	59.1	53.6	38.1	26.4	47.2	96	−5	.....	.....
Taunton[16]	19.6	27.3	33.8	44.6	57.2	65.1	70.2	69.4	58.2	53.4	40.5	30.8	47.5	93	−20	.....	Oct. 17
Taunton[17]	20.0	27.6	33.4	44.6	56.6	66.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Oct. 17
Taunton[18]	19.0	28.9	32.6	43.7	55.9	65.0	69.2	69.2	57.2	52.8	39.7	31.4	46.9	95	−19	.....	.....
Taunton (a)[19]	19.7	26.7	32.7	.....	.....	65.1	70.7	70.0	58.5	53.6	40.8	30.5	.....	.....	.....	.....	.....
Turner Falls	16.0	24.0	30.9	43.2	56.7	67.2	69.4	68.1	56.5	52.8	38.3	25.2	45.8	92	−12	.....	.....
Vineyard Haven	24.9	30.5	36.2	44.9	56.8	64.7	70.3	70.1	61.8	56.4	45.2	38.2	50.0	90	2	Apr. 26†	Oct. 31
Wakefield	17.7	24.7	32.2	43.2	56.2	65.5	.....	*68.9	57.5	53.2	39.3	27.6	.....	.....	.....	.....	Oct. 30
Wayland	14.4	22.4	29.6	42.8	56.7	65.5	*68.4	65.5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wellesley	14.6	*23.8	29.6	45.8	56.2	65.8	*69.0	66.7	57.2	52.8	*39.4	28.0	45.7	93	−18	.....	Oct. 31
Westboro	18.2	26.2	32.8	44.3	57.9	67.6	70.4	70.3	57.6	54.2	39.8	27.8	47.2	96	−12	.....	Oct. 17
Williamstown (a)	13.2	21.6	30.1	40.7	54.9	68.0	67.4	67.7	55.7	50.4	36.2	26.9	44.4	87	−13	.....	.....
Winthrop	.....	.....	32.2	42.6	55.3	64.1	70.6	69.8	59.0	53.4	40.9	28.6	.....	.....	.....	.....	Oct. 17
Woods Hull	21.6	28.0	33.7	41.9	53.0	61.4	68.4	68.6	60.6	54.8	43.9	34.4	47.5	82	−5	Apr. 26†	Nov. 11
Worcester[20]	17.0	23.4	30.8	*41.4	56.3	66.4	69.0	*69.4	57.4	*54.0	38.0	*27.2	45.9	94	−6	.....	Oct. 17
Worcester[21]	17.7	23.6	31.7	42.9	55.6	65.4	69.1	68.7	57.0	52.5	38.5	26.9	45.8	91	−5	.....	Oct. 17
Michigan.																	
Adrian	13.5	21.8	34.2	45.3	55.3	70.0	73.6	70.0	62.8	51.8	37.3	26.5	46.8	99	−18	.....	Oct. 16
Albion (a)	18.0	24.4	35.4	46.0	56.3	70.2	73.5	70.2	.....	51.5	37.2	29.2	.....	91	−14	.....	.....
Allegan	15.0	21.5	33.0	45.6	54.2	69.8	72.8	71.0	62.4	52.8	36.6	28.2	46.9	97	−10	.....	.....
Alma	12.9	*16.4	27.3	42.6	52.8	68.2	71.0	65.7	*55.8	50.1	35.6	23.0	43.5	94	−17	.....	Sept. 26
Alpena	13.4	14.6	25.0	36.8	48.2	64.6	66.8	63.6	55.9	43.8	35.6	22.9	41.3	93	−14	May 26	Sept. 24
Ann Arbor (a)	15.2	21.2	32.2	44.4	55.4	69.4	72.4	68.6	61.0	49.9	36.5	28.0	46.2	92	−11	.....	Sept. 26
Arbela (b)	11.0	15.6	25.8	38.0	52.7	67.7	67.3	62.1	53.5	45.4	34.4	22.6	43.1	91	−10	.....	.....
Ball Mountain	12.3	18.5	29.0	42.2	53.4	68.0	69.8	66.4	.....	49.3	36.6	25.4	.....	91	−17	.....	.....
Bear Lake	13.9	16.2	26.5	38.9	48.6	65.4	67.4	63.6	55.2	48.0	33.8	23.4	41.8	94	−18	.....	.....

[1] Miss S. C. Snell.
[2] Agricultural Experiment Station.
[3] Hatch Experiment Station.
[4] Harvard College Observatory.
[5] E. C. Brooks.
[6] Dr. J. Fisher.
[7] Dr. A. P. Mason.
[8] C. Wooley.
[9] Groton School.
[10] Prop. locks and canals.
[11] T. E. Saunders.
[12] J. W. Darcey.
[13] J. C. Haskell.
[14] T. R. Rodman.
[15] New Bedford waterworks.
[16] A. F. Sprague.
[17] Dr. R. U. Jones.
[18] Taunton waterworks.
[19] C. H. Wilmarth.
[20] Worcester Academy.
[21] G. W. Swann.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Michigan—Continued.																	
Bellaire	10.4	[b]11.8	23.4	36.0	49.0	66.8	[c]68.2	64.8	56.6	[b]50.3	34.4	[b]20.0	41.0	96	—26	.....	Sept. 26
Benton Harbor	18.9	24.6	34.8	47.0	54.3	69.4	72.4	67.0	63.0	52.8	38.0	30.4	47.3	94	—7	.....	Sept. 28
Benzonia	.....	.....	.....	[a]39.0	48.8	65.4	.....	.....	.....	.....	.....	23.0	.....	.....	.....	.....	.....
Berlin (*a*)	12.9	17.2	28.8	41.9	52.6	69.4	71.0	68.1	59.6	49.8	35.1	24.1	44.2	98	—18	.....	Sept. 26
Berrien Springs (*a*)	18.3	24.8	35.6	48.1	56.6	71.5	74.3	69.1	63.2	53.2	38.2	31.2	48.7	100	—12	.....	.....
Birch Run	11.8	17.5	30.4	[c]42.6	54.8	[c]70.4	70.5	[c]66.6	.....	.....	.....	.....	.....	.....	.....	.....	.....
Birmingham (*a*)	16.1	21.7	32.2	44.6	55.9	[c]71.0	[c]73.4	[d]68.7	58.6	51.6	37.7	28.9	46.7	96	—14	.....	.....
Boon	10.9	[c]12.7	24.5	36.5	49.4	66.3	66.4	62.1	54.2	[d]47.2	32.9	21.0	40.3	94	—22	.....	Sept. 17
Bronson	12.7	20.2	34.0	44.7	54.8	69.6	72.4	69.2	62.8	52.8	34.9	27.1	46.3	95	—15	.....	Sept. 26
Brown City	13.5	17.2	28.6	41.8	53.5	69.4	[c]70.6	66.5	58.6	[b]48.8	35.8	23.9	44.0	94	—14	.....	Sept. 26
Caldwell	11.8	14.9	25.4	38.8	49.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Calumet	5.5	7.8	19.8	29.8	45.4	64.2	64.8	62.8	53.5	42.9	29.6	14.9	36.8	91	—20	.....	.....
Charlevoix	12.7	14.0	24.4	37.1	.....	63.6	68.9	67.2	58.6	51.2	[c]38.8	23.9	38.5	.....	—15	.....	.....
*Cheboygan	10.2	11.4	23.4	35.1	47.6	64.4	66.2	64.0	.....	.....	.....	.....	.....	93	—17	May 26	Aug. 13
Cheboygan[1]	.....	.....	.....	.....	.....	.....	.....	.....	54.6	[d]47.2	33.8	18.7	.....	93	—17	.....	.....
Climax (*a*)	.....	.....	.....	.....	.....	.....	.....	69.2	63.6	49.4	[c]36.5	28.5	.....	.....	.....	.....	.....
Clinton	13.2	21.6	33.2	44.6	55.0	69.9	73.2	69.4	62.0	52.1	36.8	27.5	46.6	97	—16	.....	Sept. 26
Crystal Falls	2.5	11.0	21.0	33.8	47.7	66.4	67.7	61.7	53.5	44.0	32.4	12.0	37.8	97	—25	.....	.....
*Detroit	15.4	22.0	32.8	44.2	55.1	69.8	72.8	70.0	61.6	52.6	38.4	27.7	46.9	93	—10	Apr. 21	Sept. 26
East Tawas (*a*)	14.0	19.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Escanaba	8.0	10.0	20.3	34.4	46.8	62.0	66.4	62.6	54.3	45.8	32.8	17.6	38.4	87	—21	.....	Sept. 26
Evart	9.4	[c]12.6	[c]25.5	40.9	51.2	67.0	68.4	[c]65.9	[d]57.5	46.1	.....	.....	.....	.....	.....	.....	Sept. 17
Fairview	12.4	19.7	30.2	44.9	52.8	68.0	71.5	68.1	61.6	49.6	35.3	25.7	45.0	.....	.....	.....	.....
Fitchburg	13.2	20.2	31.0	43.2	54.0	68.2	71.4	66.0	60.2	49.8	35.0	25.8	44.8	.....	.....	.....	.....
Flint (*c*)	12.5	18.3	30.4	43.0	53.8	67.4	69.7	68.6	59.2	51.0	33.0	23.5	44.2	98	—24	.....	Sept. 23
Gaylord	9.6	12.2	23.8	37.2	49.8	66.0	67.5	64.2	55.0	48.2	33.0	19.2	40.5	93	—22	.....	.....
Glenwood	15.2	20.6	31.4	43.4	51.9	65.6	67.6	63.2	[c]57.2	49.6	.....	.....	.....	86	—12	.....	.....
*Grand Haven	17.0	20.6	31.4	41.5	51.0	66.0	69.3	65.4	60.2	51.4	36.6	27.4	44.8	89	—2	Apr. 26	Sept. 26
Grand Rapids (*a*)	.....	.....	.....	45.4	54.8	.....	.....	.....	61.4	52.4	36.6	28.7	.....	.....	.....	.....	Oct. 16
Grape	16.2	24.2	35.2	46.4	56.4	70.0	73.8	70.0	63.0	52.3	38.5	28.6	47.9	94	—10	.....	Sept. 26
Grayling	7.7	11.2	24.4	37.3	50.7	66.8	67.6	64.4	56.2	.....	.....	19.6	.....	95	—22	.....	.....
Hanover	18.2	25.0	34.4	45.2	55.2	69.2	72.2	69.2	62.0	52.2	37.9	29.3	47.5	93	—9	.....	.....
Harbor Springs (*a*)	11.6	12.6	24.8	37.2	47.6	65.1	64.4	65.1	56.8	.....	35.9	22.8	.....	93	—27	.....	.....
Harrison	11.6	13.4	[c]27.0	36.6	[d]50.4	67.2	67.0	.....	56.8	47.1	[c]29.7	21.1	.....	94	—18	.....	.....
Harrisville (*a*)	11.5	11.8	24.6	35.3	46.4	63.2	65.2	63.4	56.6	47.4	34.2	21.5	40.0	96	—2	.....	.....
Hart	18.6	20.4	29.8	41.6	51.0	71.8	71.5	69.2	54.5	50.0	39.8	29.8	45.2	93	—15	.....	Sept. 26
Hastings	14.4	20.4	31.8	43.2	54.2	69.6	71.8	67.8	60.1	49.4	34.6	27.2	45.4	93	—14	.....	.....
Hayes	13.8	17.1	27.9	41.0	52.5	68.4	68.2	65.8	59.0	[d]52.1	37.7	26.2	44.1	94	—16	.....	.....
Highland Station	11.4	.....	.....	42.3	53.8	.....	71.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hilladale	13.8	20.8	32.1	43.6	[c]50.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Howell	12.6	19.1	31.2	43.8	54.2	68.3	71.0	67.8	[c]58.5	50.6	36.0	24.4	44.8	94	—23	.....	.....
Jeddo (*a*)	12.8	17.8	28.8	40.6	52.2	66.6	68.2	66.8	59.6	50.2	36.4	25.4	43.8	94	—15	.....	Oct. 17
Kalamazoo	15.5	21.3	33.5	45.2	55.4	70.6	73.8	[c]71.1	63.3	52.4	36.5	28.2	47.2	94	—10	.....	Oct. 30
Lake City (*a*)	[c]11.8	[c]14.0	.....	39.0	[c]51.3	.....	[c]66.0	.....	.....	.....	.....	21.6	.....	.....	.....	.....	.....
Lansing (*a*)[1]	15.0	20.5	32.2	43.8	55.0	68.6	71.5	68.0	59.8	50.6	36.0	27.5	48.7	94	—11	.....	Sept. 24
Lathrop (*a*)	.....	.....	20.1	33.6	46.8	66.7	67.3	[c]60.0	53.3	[d]45.6	31.5	[c]16.7	.....	95	.....	.....	Sept. 17
Lewiston	11.6	11.3	25.5	38.6	52.4	70.4	70.1	68.2	57.1	48.2	33.7	19.7	42.4	99	[c]—18	.....	Sept. 23
Lodi	11.3	13.8	.....	37.3	49.4	68.0	68.8	65.2	.....	48.3	34.0	20.8	.....	98	—17	.....	.....
Lyons	18.4	23.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McMillan	9.6	9.8	21.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madison	13.7	21.5	33.2	44.8	55.4	69.4	72.6	68.6	61.8	51.4	36.8	26.8	46.3	94	—13	.....	Sept. 26
*Manistee	15.8	17.8	28.1	39.7	48.0	63.4	67.0	64.0	.....	.....	.....	.....	.....	90	—4	.....	.....
*Marquette	9.0	12.2	22.0	32.8	45.6	64.6	67.2	63.8	55.4	46.8	32.8	18.1	39.2	95	—19	May 6	Sept. 29
Marshall	14.4	21.3	33.3	44.6	55.2	69.3	72.0	69.2	60.9	49.8	.....	.....	.....	97	—12	.....	.....
Mayville	13.4	17.4	28.2	41.6	53.5	69.4	70.6	68.0	60.3	51.7	36.3	24.8	44.8	92	—14	.....	Sept. 26
Mio	.....	.....	.....	37.8	53.2	69.4	71.2	67.0	57.1	49.4	[c]35.4	20.4	.....	.....	.....	.....	Sept. 24
Montague (*c*)	.....	21.4	30.6	41.4	50.2	64.6	68.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mottville	13.2	21.0	34.8	46.1	54.8	70.2	73.4	70.2	63.3	51.8	36.3	28.1	47.0	100	—21	.....	Sept. 28
Noble (*b*)	16.5	20.8	33.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
North Marshall	11.6	18.7	30.0	42.6	51.6	66.2	68.4	66.6	60.0	49.6	33.0	24.4	43.6	92	—16	.....	Sept. 26
Olivet	12.0	18.8	30.6	41.8	53.2	66.2	69.8	.....	.....	50.8	34.8	25.4	.....	.....	—13	.....	.....
Ovid	13.4	18.2	30.0	42.8	54.0	69.3	71.8	67.8	59.0	50.4	35.4	24.2	44.7	94	—12	.....	Sept. 26
Paris	11.0	12.4	.....	.....	.....	66.4	66.6	63.6	56.2	45.6	.....	.....	.....	.....	.....	.....	.....
*Port Huron	14.1	20.3	30.4	42.2	52.2	67.0	70.2	67.4	59.8	51.8	37.6	25.7	44.9	92	—11	Apr. 24	Sept. 26
Rawsonville (*a*)	15.0	22.0	33.5	.....	54.1	69.8	72.4	68.7	62.1	51.6	37.9	.....	.....	95	—14	.....	Sept. 26
Rockland	[f]7.6	[b]11.4	22.7	.....	.....	68.1	68.2	.....	56.4	46.8	31.0	[c]14.6	.....	98	—25	.....	.....
Romeo	13.8	20.0	31.0	42.2	54.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Ignace	8.8	10.4	22.2	33.6	46.8	61.5	64.8	63.6	54.5	[d]46.7	33.7	19.5	38.8	92	—22	.....	.....
Sand Beach	14.5	17.6	29.3	39.6	49.5	[c]64.0	68.7	67.0	59.6	52.6	35.4	24.7	43.5	95	—12	.....	Oct. 16
*Sault de Ste. Marie	6.0	9.1	20.7	33.0	46.8	62.2	63.0	62.6	53.5	45.3	32.4	14.3	37.4	92	—26	May 26	Sept. 28
Stanton	.....	.....	.....	.....	.....	.....	70.6	67.0	58.5	49.6	34.2	24.2	.....	.....	.....	.....	Sept. 17
Thornville (*a*)	15.0	19.7	31.6	44.0	56.0	70.0	72.0	69.4	60.8	51.3	37.6	27.0	46.2	97	—12	.....	Sept. 26
Vandalia	15.0	22.2	33.8	45.0	55.5	68.9	73.0	68.6	62.4	[f]53.3	36.4	28.2	46.9	91	—12	.....	Sept. 28
Washington	12.6	20.4	31.8	44.0	54.0	.....	71.2	68.0	61.2	49.4	36.7	.....	.....	96	—17	.....	.....
Williamston (*a*)	18.1	22.9	33.9	44.2	57.1	[c]68.4	[c]70.2	68.1	.....	53.0	38.1	29.0	.....	90	—8	.....	.....
Ypsilanti	13.9	21.6	32.8	44.8	55.0	67.5	70.3	66.9	60.0	50.0	36.6	26.3	45.4	93	—13	.....	Sept. 26
Minnesota.																	
Ada	.....	.....	.....	.....	.....	.....	69.7	.....	58.6	44.8	22.6	1.2	.....	.....	—43	May 25	Sept. 16
Albert Lea (*a*)	3.5	9.8	23.9	38.5	53.9	68.8	71.5	66.7	60.1	47.4	28.9	15.7	40.8	98	—27	May 4	Sept. 25
Alexandria (*a*)	—4.4	2.7	16.1	33.5	52.2	71.6	71.2	65.0	[c]54.6	41.9	22.6	5.1	36.0	98	—40	May 6	Sept. 23
Alma City (*a*)	3.0	8.7	23.1	38.3	54.1	69.3	71.3	66.1	.....	.....	.....	.....	.....	.....	.....	May 23	.....
Barrett (*a*)	.....	.....	.....	.....	.....	.....	.....	[c]61.0	61.4	45.1	27.9	11.2	.....	.....	.....	.....	Sept. 25
Beardsley	.....	.....	.....	.....	.....	.....	71.2	68.8	61.2	47.9	[c]29.8	11.7	.....	.....	.....	.....	Sept. 16
Belle Plaine (*a*)	.....	.....	.....	.....	.....	.....	.....	69.8	63.1	47.4	28.6	12.4	.....	.....	.....	.....	Sept. 25
Bingham Lake	4.4	9.6	22.3	38.0	[c]54.4	(71.0)	69.7	67.8	60.3	47.3	[c]29.0	17.2	(40.9)	95	—30	May 8	Sept. 23
Bird Island	2.8	7.0	20.5	37.6	53.8	69.0	(73.0)	67.2	59.4	45.7	28.2	11.6	(39.6)	98	—31	May 25	Sept. 16

[1] Jacob Walton.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Minnesota—Continued.																	
Blooming Prairie (a)	2.1	7.8	22.3	38.4	54.1	70.7	73.3	67.5	60.1	47.8	27.2	12.9	40.4	94	—30	May 6	Sept. 25
Bonniwells Mills	4.9				57.2	73.8	74.0	68.4	61.0	48.6	30.6	12.6				Apr. 29	Sept. 25
Caledonia	4.7	10.8	25.2	40.6	54.2				61.6	50.0	31.4	15.4			—26	May 3	Sept. 24
Cambridge	2.8	7.0	21.7	36.8	52.2	70.2	71.3	65.8	58.3	46.4	28.6	8.1	39.1	98	—35	May 25	Aug. 29
Camden (a)	6.0	9.7	23.4	37.2	53.9	69.8	(71.0)	65.3	60.5	46.0	30.4	13.8	(40.6)		—30	May 4	Sept. 16
Carver (b)								[c]60.6	60.3	49.7	29.8	[d]10.2					Sept. 22
Clear Lake (a)	3.4	6.6	20.1	37.1	53.8	70.2	71.2	66.7	59.4	45.0	27.0	[e]8.6	38.9	99	—33	May 23	Sept. 23
Clearwater (a)									60.5	46.2	30.5	11.9					Sept. 26
Collegeville	6.8	9.2	24.7	38.7	54.7	71.0	73.4	69.4	61.8	48.8	31.8	13.4	42.0			May 19	Sept. 24
Crookston	—4.5	—2.2	13.2	32.7	51.9	[c]69.0	67.9	65.0	55.4	39.1	[d]21.6	1.2	34.2	99	—32	May 19	Sept. 24
Dassel (a)								[c]65.5	[c]58.1	44.4	28.1	12.3					Sept. 25
Dawson (a)							[c]76.4	69.4	60.5	40.9	29.2	14.8					Sept. 25
*Duluth	4.8	8.2	22.8	33.4	47.0	60.4	66.3	64.7	56.4	44.9	28.6	11.2	37.4	93	—28	May 7	Sept. 25
Easton	5.2	12.2															
Farmington (a)	3.1	8.8	22.2	38.0	54.3	70.8	72.4	68.4	61.2	48.6	29.3	12.2	40.8	104	—30	May 25	Sept. 24
Fergus Falls (a)	—0.3	3.2	18.2	34.6	52.3	69.2	69.4	64.9	57.2	43.5	25.0	7.7	37.1	96	—39	Apr. 30	Sept. 23
Fort Francis, Canada	—4.5	—4.0	13.9	30.3	46.0	65.2	64.4	59.3	51.6	38.4	22.1	—3.2	31.6			May 26	Aug. 29
Grand Meadow (a)	2.3	6.6	22.1	37.1	51.8	69.6	70.0	64.7	59.2	46.2	27.4	14.3	39.3	97	—26		Sept. 25
Granite Falls	2.5	7.0	21.1	38.2	54.4	69.8	73.0	68.6	59.8	45.1	28.6	10.4	39.9	102	—32	Apr. 24	Sept. 16
Hastings (a)								[c]69.1		49.0	31.8	[e]12.8					
Holland (a)	2.6	7.4	20.5	[c]35.9	51.7	67.8										May 6	
Hutchinson (a)										45.9	27.1	11.6					
Kinbrae (a)	[f]3.4	6.6	23.1	36.1	53.1	68.4	72.0									May 6	
Lake Winnebigoshish (a)	—1.4	1.9	18.9	32.4	49.6	67.0	67.3	63.2	55.1	41.4	21.7	1.2	34.9	96	—40	May 10	Sept. 26
Leech Lake (a)	—2.0	4.4	18.0	32.6	49.3	68.2	67.8	62.9	55.3	42.4	23.7	3.4	35.5	97	—40	May 26	Sept. 25
Long Prairie	—1.0	1.8	15.2	35.2	52.7	69.8	69.4	63.5	56.4	42.4	24.6	5.0	36.3	96	—42	May 25	Sept. 23
Maple Plain	3.3	7.7	21.7	38.1	53.5	70.7	72.4	68.6	60.8	47.8	29.6	10.5	40.4	97	—29	Apr. 29	Sept. 25
Marfield											22.1	1.8					
Mazeppa (a)										45.3	27.7	13.7					
Medford (a)								63.8	[c]59.0	47.7	28.7	[d]14.0					Aug. 29
Milan (a)								[c]68.0	61.5	45.3	27.6	10.3					Oct. 16
*Minneapolis	4.0	12.0	24.9	40.2	54.3	71.9	74.0	69.4	62.8	50.3	32.6	13.9	42.5	97	—27	May 25	Sept. 25
Minneapolis[1]	4.0	9.4	22.5	39.2	54.0	71.7	73.7	68.4	60.5	48.3	30.1	12.0	41.2	101	—28	May 22	Sept. 25
Minneapolis (a)[2]			23.4	38.2	54.4	71.6	73.5	68.4	60.6	47.6	29.2	12.8				May 25	Sept. 25
Minneapolis (a)[3]										48.0	29.8	13.3					
Minnesota City (a)	6.4	14.1	26.7	41.2	55.0	72.3	73.9	67.8	59.6	49.1	31.0	16.9	42.3	100	—32	May 8	Sept. 24
Montevideo	2.5	6.6	20.6	37.7	55.2	70.4	71.8	67.6	62.5	47.2	29.9	11.2	40.3	100	—35	Apr. 29	Sept. 25
*Moorhead	—3.6	—1.7	12.6	32.5	52.1	69.2	68.4	65.6	57.3	42.4	22.6	2.0	35.0	101	—39	May 6	Sept. 16
Morris (a)	—0.8	3.6	18.7	35.2	53.8	70.8	72.6	66.7	58.9	43.4	25.1	9.0	38.1	97	—36	Apr. 30	Sept. 25
New London				[c]34.6	54.7	70.6	72.0	68.4	61.2	46.8	28.2	8.2		97		Apr. 30	Sept. 25
New Richland (a)										[c]50.1	[c]32.0	16.6					
New Ulm								[c]69.3	62.4	49.1	31.6	15.7					Sept. 25
Northfield (a)	3.0	10.1	23.2	[c]37.0	53.4											May 1	
Park Rapids	—[c]1.9	0.5	16.3	32.5	50.8	[c]67.5	[c]68.6	64.0	55.2	42.2	24.1	3.6	35.3			May 25	Sept. 23
Pine River (a)	—1.5	3.6	18.6	34.0	50.2	69.6	70.3	65.4	56.2	44.8	25.4	5.7	36.9	95	—43	Apr. 29	Sept. 24
Pokegama Falls (a)	—6.0	0.0	16.8	31.1	48.1	67.0	68.6	61.6	52.5	41.4	22.8	1.0	33.7	96	—40	June 9	Sept. 29
*Red Wing	3.2	10.0	22.5	39.6	53.8	71.3	73.2	68.7									
Rochester (a)	4.0	11.1	24.2	39.2	53.7	69.3	70.8	67.2	[c]62.5	[c]50.0	30.8	9.8	41.0	96	—30	Apr. 26	Sept. 24
Rolling Green (a)	3.3	7.4	22.8	38.8	53.4	69.9	71.9	66.6	59.7	47.6	29.2	14.8	40.4	93	—29	Apr. 30	Sept. 27
Royalton (a)									58.0	42.2	24.5						
St. Charles (a)	2.7	10.7	24.0	38.5	52.4	69.0	70.5	66.1	59.3	48.2	29.8	15.6	40.6	94	—30	May 17	Aug. 29
St. Cloud (a)	3.4	8.8	22.5	37.5	53.8	72.1	73.2	67.2	59.0	45.9	28.3	10.6	40.2	99	—30		
St. Olaf (a)	—0.3	4.4	18.4	34.7	52.6	69.8	70.5	65.5	57.1	43.2	[c]24.6	8.3	37.4	96	—36	Apr. 30	Sept. 24
*St. Paul	3.2	9.1	23.0	39.0	53.8	71.4	73.4	69.0	61.8	49.0	30.0	12.4	41.3	98	—26	May 25	Sept. 25
St. Peter					56.2	72.0	73.2	69.6	62.4	50.4	33.1	15.8				May 2	Sept. 25
*St. Vincent	—4.2	—4.6	10.4	27.8	51.2	65.5	66.4	63.8	55.4	40.1	19.8	—2.7	32.4	96	—42		
Sandy Lake Dam (a)	0.2	6.6	18.4	32.4	49.2	68.9	67.7	65.9	54.3	42.7	24.7	5.6	36.4	95	—41	May 31	Sept. 24
Sauk Center (a)							69.6	62.6	58.0	39.7	22.4	6.2					Sept. 2
Sheldon (c)	1.4	10.5	24.6	40.1													
Starbuck											[c]26.1	8.2					
Wabasha (a)	5.8	12.5	25.4	40.4	56.3	73.2	75.7	69.1	61.4	49.1	32.0	15.8	43.0			Apr. 23	Sept. 28
Wadena (a)								[c]65.4	[c]63.3	45.6							Sept. 27
Waconia (a)									60.5	47.2	30.8						Sept. 27
Warren									59.8	[d]31.0	21.9	—2.4					Sept. 22
Willmar (a)	(—1.0)	(5.0)	19.4	35.1	52.4	69.4	70.7	65.3	[c]59.5	44.0	26.3	10.4	(38.1)	100	—19	Apr. 28	Sept. 25
Winona (a)	8.0	16.2	28.1	42.5	56.4	73.1	76.3	71.9	64.0	53.0	34.2	18.3	45.2	98	—27	Apr. 24	Sept. 28
Mississippi.																	
*Aberdeen					68.9	77.0	81.5	77.2	70.6	58.3	47.6			102			Oct. 15
Agricultural College (a)	41.1	50.6	53.2	68.2	71.1	78.3	82.4	79.5	73.9	63.2	52.3	48.6	63.5	99	9	Mar. 6	Oct. 29
*Batesville	39.2	46.6	52.0	65.8	68.8	76.0	80.5	77.7	71.5	58.8	50.0	46.2	61.1	97	—3	Mar. 19	Oct. 16
Biloxi					73.5	79.4	82.2	80.4	77.5	68.4	60.0	54.8		93			Dec. 3
Briers	45.5	54.4	55.1	69.0	71.8	77.7	81.8	79.6	76.0	62.8	55.8	52.0	65.1	94	22	Mar. 10	Nov. 15
*Brookhaven	45.4	56.7	57.5	71.0	74.2	79.4	83.4	79.6	73.0	61.9	52.8	47.5	65.2	102	15	Mar. 30	
Canton	43.0	53.8	54.4	68.0	71.0	77.6	81.3	78.9	73.8	62.2	53.1	50.4	64.0	95	20	Mar. 5	Oct. 15
Clarksdale	41.6	49.2	54.0	66.8	71.1	76.8	81.3	79.0	74.0	61.6	51.8	45.0	62.7	97	5	Mar. 28	Nov. 15
*Columbus			54.6		72.3	84.6	84.9	80.2	75.5	63.0	54.1						
*Corinth					68.8	76.0	81.4	78.6	73.9	66.0	51.8						
Crystal Springs	45.4	54.8	56.1	[c]71.1	73.1	80.4	82.6	80.8	75.9	64.4	55.0	51.6	65.9	101	19	Mar. 30	Oct. 15
Duck Hill	[c]45.8	50.8		[c]66.8	69.1		81.0	78.0	72.8	58.9	52.4	48.4					Oct. 15
Edwards		54.3	55.5	70.8	73.6	80.8	83.4	80.9		63.0	54.3	50.6		98		Mar. 18	Nov. 15
Enterprise	42.8	53.6	54.7	69.6	71.9	77.1	81.0	78.2	72.3	60.6	51.4	48.5	63.5	98	15	Mar. 11	Oct. 30
Fayette	46.6	57.3	57.9	70.4	72.6	78.4	81.3	78.8	75.9	64.4	56.4	54.7	66.4	94	20	Mar. 5	Nov. 15
French Camp									[c]69.5	57.8	48.6	45.8					Oct. 15
Greenville[4]	42.7	49.0	52.9	68.0	70.6	77.8	82.3	80.8	[c]73.1			47.8		95	19	Mar. 5	Oct. 16
Greenville[5]					71.4	79.2	83.2	79.8	75.2	63.1	53.2			101		Mar. 5	Oct. 16

[1] Wm. Cheney. [2] J. H. Aschenbeck. [3] C. E. Crane. [4] R. Somerville. [5] Prof. W. M. Green.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Mississippi—Continued.																	
Hattiesburg	48.5	59.7	59.5	.....	.....	80.8	83.2	81.1	77.6	66.8	58.2	54.9	.....	95	23	.....	Nov. 15
*Hazelhurst	.....	.....	.....	.....	72.7	78.4	81.5	79.8	75.8	64.4	55.4	.....	.....	97	.....	.....	.....
*Hernando	.....	.....	.....	.....	69.6	77.2	82.1	79.0	73.8	61.6	51.3	47.6	.....	99	.....	.....	.....
*Holly Springs	.....	.....	.....	.....	69.1	77.1	81.6	78.3	72.5	59.9	47.6	.....	.....	98	.....	.....	Nov. 15†
Itta Bena (*a*)	.....	.....	.....	.....	.....	.....	84.4	80.6	75.2	†63.2	.....	.....	.....	.....	.....	.....	.....
*Jackson	.....	.....	.....	.....	73.7	†79.6	82.5	80.2	75.3	63.0	55.4	51.8	.....	99	.....	.....	Oct. 16
Kosciusko	41.6	53.5	53.6	67.8	68.6	76.0	80.0	78.4	72.4	60.4	51.2	49.2	62.7	97	8	Mar. 30	Nov. 15†
*Lake	40.3	52.5	53.8	66.0	71.8	77.4	81.2	78.5	74.8	61.5	53.4	.....	.....	.....	.....	.....	Nov. 15
Logtown	47.6	60.2	59.5	71.0	74.6	79.8	81.5	80.5	77.4	65.9	57.7	54.6	67.5	95	25	Mar. 5	Nov. 24
Louisville	42.7	52.2	53.8	67.8	70.3	77.0	80.8	78.4	73.0	61.1	†51.6	48.4	63.1	99	4	Mar. 6	Nov. 15
*Macon	.....	.....	.....	.....	71.3	72.8	80.0	76.2	70.0	59.2	52.2	48.6	.....	.....	.....	.....	Oct. 14
McComb	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.3	†51.6	†53.0	.....	.....	.....	.....	.....
*Meridian	41.9	53.1	54.1	68.2	71.8	77.2	80.6	78.2	73.4	61.2	52.6	49.3	63.4	97	14	Mar. 19	Oct. 15
Moss Point	46.7	59.0	57.0	71.6	76.4	81.6	84.2	82.1	78.8	66.0	58.4	.....	.....	98	22	Mar. 4	.....
*Natchez	.....	56.6	.....	.....	73.8	79.6	82.8	80.0	76.8	64.9	.....	.....	.....	96	.....	.....	.....
*Okalona	†39.0	48.0	52.2	.....	70.8	78.5	83.4	79.1	72.7	59.7	49.1	.....	.....	.....	10	Mar. 19†	Oct. 31
Palo Alto (*a*)	39.7	49.9	52.6	67.3	71.1	78.1	82.2	79.2	72.4	60.4	50.4	49.2	62.5	100	8	Mar. 19	Oct. 16
Pontotoc (*a*)	39.2	47.8	51.7	66.4	69.9	75.9	81.5	78.4	72.8	61.7	51.5	46.0	61.9	98	4	Mar. 19	Oct. 29
*Port Gibson	.....	53.9	55.2	70.2	72.4	78.2	81.4	78.6	74.8	62.6	53.4	50.1	.....	100	.....	Mar. 30†	Oct. 15†
Ship Island	50.4	60.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stonington (*a*)	.....	.....	.....	.....	.....	.....	†81.8	79.6	77.2	†62.9	55.9	53.9	.....	.....	.....	.....	Oct. 16
Topton (*c*)	.....	.....	.....	.....	.....	.....	80.8	79.5	75.2	.....	.....	47.9	.....	.....	.....	.....	.....
University	.....	47.6	51.4	65.7	68.4	76.3	81.0	80.0	72.5	57.0	.....	48.0	.....	99	.....	Mar. 29	Oct. 23†
Vaiden (*a*)	39.6	51.2	53.2	68.3	.....	77.5	81.9	79.0	73.4	59.9	.....	47.0	.....	101	6	Mar. 18	Oct. 15
*Vicksburg	45.6	53.8	56.0	69.6	72.0	78.4	81.2	79.3	75.0	64.6	55.1	52.6	65.3	96	20	Apr. 22	Nov. 15
Washington	46.5	55.9	56.6	69.8	†72.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 5†	.....
Water Valley (*a*)	35.7	47.8	51.8	66.7	69.3	74.1	81.1	79.2	72.5	59.2	50.6	46.3	61.2	104	8	Mar. 19†	Oct. 30
Waynesboro[1]	42.0	55.0	54.4	.....	72.0	78.6	82.4	79.8	76.2	60.8	50.0	48.4	.....	101	18	Mar. 5	Nov. 14
*Waynesboro	.....	.....	.....	.....	73.4	78.6	82.7	79.8	76.2	.....	.....	.....	.....	100	.....	Mar. 5	Nov. 14
Woodville	.....	.....	†58.9	71.4	75.0	80.5	83.4	80.1	†77.8	65.6	56.5	55.3	.....	99	.....	Mar. 18†	Nov. 15
*Yazoo City	.....	.....	.....	.....	.....	.....	.....	.....	76.8	64.4	56.4	52.2	.....	.....	.....	.....	Oct. 30
Missouri.																	
Appleton City	26.5	31.1	.....	56.7	63.1	74.6	79.4	74.0	72.5	57.7	43.0	37.4	54.9	105	−2	Apr. 23	Oct. 24
Arthur (*c*)	.....	27.2	39.5	53.9	61.3	72.6	76.4	70.8	68.2	51.8	35.0	32.4	.....	.....	.....	Apr. 23	Oct. 15
Bethany	17.1	23.3	35.5	49.8	60.5	73.6	75.8	70.5	68.2	54.6	37.0	27.7	49.5	97	−11	Apr. 23	Oct. 25
Birch Tree	.....	.....	.....	.....	.....	.....	.....	73.1	69.8	56.4	42.8	39.0	.....	.....	.....	Apr. 23	Oct. 15
Bluffton (*a*)	.....	.....	.....	.....	.....	.....	.....	.....	72.7	59.2	43.7	35.8	.....	.....	.....	Apr. 23	Oct. 15
Brunswick	21.5	27.2	41.0	54.3	62.8	74.1	78.2	72.0	69.4	58.6	41.6	33.8	52.7	96	−9	Apr. 23	Oct. 15
Bryant	.....	.....	48.7	57.8	63.2	71.0	75.9	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 23	Oct. 15
Carrollton	20.7	25.4	40.2	53.5	62.1	73.3	77.6	72.9	70.5	59.4	42.2	34.6	52.7	97	−7	.....	Oct. 27
*Columbia	22.7	28.4	41.9	55.2	62.6	73.0	77.2	73.6	71.7	59.2	42.4	35.6	53.6	104	−6	Apr. 23	Oct. 15
Conception	18.1	23.8	36.4	49.2	60.0	†72.0	.....	†71.4	.....	57.5	41.2	27.5	.....	.....	.....	Apr. 23	Oct. 15
Cowgill (*c*)	.....	.....	42.6	50.8	62.5	70.2	75.7	.....	66.2	52.7	.....	.....	.....	.....	.....	Apr. 23	Oct. 15
Darksville	20.9	20.8	35.7	50.5	61.1	73.4	77.8	72.4	71.4	58.7	45.6	36.4	52.1	97	−10	Apr. 23	Oct. 15
Dixon	.....	.....	42.8	58.2	65.1	75.6	79.6	75.5	71.9	.....	.....	.....	.....	.....	.....	Apr. 23	Oct. 15
East Lynne (*c*)	23.6	26.0	38.2	52.0	59.0	72.4	77.3	70.6	67.7	52.8	37.6	34.4	51.0	.....	−9	Apr. 23	Oct. 15
Edge Hill (*c*)	26.0	30.9	40.3	51.9	56.4	66.0	69.4	66.6	60.0	50.4	42.4	40.2	50.0	.....	−2	Apr. 23	Oct. 15
Edina	18.6	23.8	37.2	49.6	60.1	.....	.....	75.6	.....	.....	.....	.....	.....	.....	.....	Apr. 23	Oct. 15
Eight Mile (*a*)	23.9	28.2	41.1	53.6	60.3	71.4	76.4	71.1	69.4	56.7	40.6	36.2	52.4	100	−7	Apr. 23	Oct. 15
Eldon (*a*)	24.4	28.0	41.7	55.3	61.3	71.5	75.7	73.2	71.7	58.8	43.3	38.0	53.6	100	−2	Apr. 23	Oct. 15
Emma (*c*)	23.6	29.3	41.7	53.0	64.8	76.7	81.9	73.8	72.0	58.6	40.7	34.8	54.2	104	−4	Apr. 23	Oct. 15
Fayette	22.3	28.2	41.2	54.5	63.6	75.2	79.8	76.0	73.0	59.6	41.2	34.8	54.1	105	−8	Apr. 23	Oct. 15
Fox Creek (*a*)	25.2	30.2	43.9	56.6	63.6	73.4	77.0	72.7	70.7	57.4	42.7	36.2	54.1	94	−10	Apr. 23	Oct. 29
Gainesville	29.3	34.7	43.6	56.7	67.4	76.8	76.4	72.8	.....	.....	.....	.....	.....	.....	−4	Apr. 23	Oct. 15
Gallatin (*a*)	18 5	24.9	38.8	52.9	62.1	75.9	80.0	75.4	72.0	60.6	39.9	32.8	52.8	95	−11	Apr. 23	Oct. 15
Gayoso (*c*)	.....	37.6	.....	.....	.....	.....	83.0	.....	.....	57.8	46.2	40.6	.....	.....	.....	Apr. 23	Oct. 15
Glasgow (*a*)	20.3	26.6	40.2	53.1	61.4	73.1	77.3	73.0	71.4	58.7	40.7	35.0	52.6	95	−9	Apr. 23	Oct. 15
Gordonville (*c*)	26.8	33.7	43.3	57.1	61.1	69.5	72.0	70.8	66.8	52.4	41.7	37.2	52.7	.....	.....	Apr. 23	Oct. 15
Gorin (*c*)	19.6	22.1	35.9	48.9	57.8	71.6	77.7	71.3	65.9	53.1	36.8	28.8	49.1	.....	−8	Apr. 23	Oct. 15
Grove Dale	29.7	31.8	43.1	.....	.....	.....	.....	70.4	68.4	55.8	39.2	39.5	.....	.....	−7	Apr. 23	Oct. 15
Half Way	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.8	.....	.....	.....	Apr. 23	Oct. 15
*Hannibal	18.4	24.6	38.9	52.0	61.0	72.8	77.7	72.2	69.6	57.0	40.4	32.0	51.4	96	−9	Apr. 15	Oct. 24
Harrisonville	22.3	27.6	40.5	55.8	62.7	75.3	80.2	76.0	73.5	.....	39.2	33.4	.....	107	−6	Apr. 23	Oct. 27
Hastain	.....	31.2	43.6	54.4	60.6	72.0	77.4	69.2	70.6	56.7	40.6	36.4	.....	105	.....	Apr. 15	Oct. 15
Houston	29.7	36.3	.....	.....	64.0	71.2	75.6	69.9	66.2	54.0	41.2	39.2	.....	96	−2	Apr. 15	Oct. 15
Humansville	.....	.....	43.0	56.8	62.6	72.6	77.9	72.2	71.6	57.8	41.2	.....	.....	104	.....	.....	Oct. 15
Ironton (*a*)	.....	32.8	43.2	57.7	62.4	70.0	75.3	69.6	67.5	53.9	40.8	37.7	.....	94	.....	Apr. 23	Oct. 15
Jefferson City	22.0	30.0	44.8	54.0	62.9	74.2	77.8	72.2	67.9	57.1	41.7	36.3	53.4	104	−4	Apr. 23	Oct. 15
*Kansas City	22.0	26.9	40.2	53.8	61.6	72.8	77.6	73.2	71.4	58.8	41.0	35.4	52.9	101	−8	Apr. 23	Sep. 25
Kidder	17.8	24.0	.....	.....	.....	.....	.....	70.9	68.3	57.2	39.8	31.1	.....	.....	−12	Apr. 23	Oct. 15
Lamar	28.7	32.6	44.2	58.3	63.2	73.7	79.2	75.0	72.8	57.8	43.2	39.8	55.7	101	−2	Apr. 23	Oct. 15
Langdon	16.6	‡17.8	36.8	49.4	58.8	72.4	76.9	.....	.....	.....	37.4	.....	.....	.....	−12	Apr. 23	Oct. 15
La Plata (*a*)	.....	.....	.....	.....	.....	.....	.....	.....	74.1	55.5	40.2	30.4	.....	.....	.....	.....	Oct. 25
Lebanon	28.1	31.8	43.8	58.9	63.6	70.8	75.5	71.9	70.4	56.2	42.2	38.4	54.3	101	−3	Apr. 23	Oct. 15
Lexington	22.8	28.1	40.7	53.7	62.3	72.4	75.8	71.0	69.6	59.8	42.2	36.1	52.9	100	−8	Apr. 23	Oct. 15
Liberty	21.9	27.0	41.1	55.5	64.2	75.4	81.0	76.0	72.1	59.2	41.0	34.6	53.1	103	−5	Apr. 23	Oct. 15
Linn Creek	†30.0	31.4	.....	.....	.....	.....	.....	.....	.....	†51.7	41.2	36.8	.....	.....	.....	Apr. 23	Oct. 15
McCune (*a*)	18.7	26.0	39.6	52.5	61.0	71.3	77.1	72.2	70.1	55.9	40.2	32.2	51.4	103	−10	Apr. 23	Oct. 15
Marble Hill	27.5	33.8	†45.6	56.4	63.8	.....	.....	.....	.....	‡41.6	.....	.....	.....	.....	−1	Apr. 23	Oct. 15
Marshall (*a*)	20.2	25.6	39.4	53.0	61.6	72.2	75.9	71.3	69.5	56.6	39.4	33.8	51.5	100	−8	Apr. 23	Oct. 15
Mexico	19.5	26.2	39.7	53.2	62.4	72.4	78.4	74.8	71.4	56.4	.....	.....	.....	103	−8	Apr. 23	Oct. 15
Miami (*a*)	20.8	27.8	40.6	52.9	61.7	71.6	76.6	71.6	69.6	58.8	.....	.....	.....	99	−8	Apr. 23	Oct. 15
Mine LaMotte	29.0	33.9	45.4	59.1	63.7	71.8	76.1	73.2	70.2	55.9	44.1	38.4	55.1	90	−4	Apr. 23	Oct. 15
Mound City (*a*)	17.8	24.1	37.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mount Vernon	.....	.....	.....	.....	.....	.....	.....	.....	.....	59.4	.....	45.5	.....	.....	.....	.....	Oct. 15

[1] W. S. Davis.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Missouri—Continued.																	
Neosho	30.3	32.0	45.0	58.6	63.3	73.4	79.4	73.8	71.3	.....	.....	40.0	.....	.....	—10	Apr. 23	Oct. 15
New Boston	16.6	19.4	34.8	44.1	61.4	76.5	78.9	.....	69.6	53.3	37.2	30.8	.....	.....	—17	Apr. 23	Oct. 27
New Hartford (*a*)	.....	.....	42.0	57.7	63.2	74.2	79.2	75.8	73.8	58.8	41.0	34.0	.....	104	.....	Apr. 23	Oct. 15
New Haven (*a*)	24.0	29.0	41.6	55.0	63.6	75.7	80.9	76.5	72.8	57.2	42.8	37.4	54.7	98	0	Apr. 23	Oct. 26
New Madrid	.....	.....	.....	.....	.....	.....	.....	77.8	72.5	59.6	47.7	42.6	.....	.....	.....	.....	.....
Oakfield	24.8	30.8	43.8	56.8	63.6	73.9	78.5	74.8	71.9	58.4	33.2	36.0	53.9	99	—4	Apr. 23	Oct. 15
Oak Ridge (*d*)	25.6	32.1	42.3	56.0	59.4	68.8	73.8	71.0	67.8	56.0	43.8	38.2	52.9	95	0	Apr. 23	Oct. 15
Olden	34.2	35.2	46.2	59.6	64.2	72.4	76.6	73.3	69.7	58.3	45.1	40.7	56.3	96	0	Apr. 23	Oct. 29
Oregon [1]	18.2	24.0	37.2	51.8	60.7	73.2	77.0	72.0	68.8	58.1	39.8	31.8	51.0	96	—12	Apr. 23	Oct. 15
Oregon (*a*) [2]	18.8	24.2	36.8	50.9	60.2	72.4	76.2	72.3	68.5	56.2	38.0	31.8	50.5	96	—8	Apr. 23	Oct. 15
Panacea	.....	.....	.....	56.6	61.5	70.4	76.0	71.8	68.6	55.0	41.8	39.2	.....	97	.....	Apr. 23	Oct. 15
Paris	19.2	27.2	38.4	52.2	61.7	[x]73.4	[f]75.4	.....	.....	.....	.....	.....	.....	.....	—7	Apr. 23	Oct. 15
Phillipsburg (*a*)	28.4	31.5	43.8	58.0	65.0	73.5	75.4	[e]73.5	71.8	[d]56.2	[d]40.5	37.6	54.6	99	—5	Apr. 23	Oct. 15
Pickering (*c*)	16.1	19.4	31.8	46.3	56.0	68.7	73.4	67.8	64.8	.....	37.4	28.6	.....	.....	—16	Apr. 23	Oct. 15
Platte River (*c*)	18.7	24.3	34.8	49.2	58.9	69.6	75.1	73.7	70.1	50.6	35.2	31.4	49.3	96	—4	Apr. 23	Oct. 15
Poplar Bluff	32.1	36.5	45.6	61.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Potosi	.....	.....	.....	.....	.....	.....	.....	.....	.....	[x]49.1	40.4	35.7	.....	.....	.....	.....	Sept. 26
Princeton (*a*)	15.3	22.6	35.4	50.3	58.6	72.7	78.2	71.2	66.9	54.9	38.3	32.1	49.2	99	—12	Apr. 23	Oct. 15
Rea (*a*)	15.4	[d]20.4	34.5	49.4	59.1	71.5	76.5	69.6	[e]64.0	.....	.....	.....	.....	.....	.....	.....	.....
St. Charles	24.9	30.1	42.8	55.6	62.9	73.5	77.9	73.3	71.2	57.4	43.1	35.8	54.0	102	—4	Apr. 23	Oct. 15
*St. Louis	24.8	30.8	43.8	56.6	64.0	75.2	80.2	76.1	72.6	58.6	44.1	36.4	55.3	99	—2	Apr. 21	Oct. 25
St. Louis [3]	23.8	29.5	42.2	55.4	62.0	72.2	77.8	71.8	69.4	55.6	42.0	36.9	53.1	100	—3	Apr. 23	Oct. 25
Sarcoxie (*a*)	.....	.....	.....	.....	.....	.....	.....	78.6	.....	62.1	46.6	42.4	.....	.....	.....	.....	Oct. 13
Sedalia	21.8	27.2	40.7	54.4	63.7	74.6	79.0	74.2	72.2	58.5	41.4	35.2	53.6	102	—10	Apr. 23	Oct. 28
*Springfield	29.8	32.8	43.9	57.8	63.2	71.6	77.3	73.7	72.0	57.6	43.1	38.6	55.1	102	—1	Apr. 23	Oct. 15
Stanberry (*a*)	17.9	23.4	36.1	50.0	59.9	71.9	76.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Steelville (*c*)	28.0	31.6	43.2	55.3	61.6	69.7	73.3	.....	.....	50.8	37.0	34.2	.....	.....	.....	.....	Oct. 15
Stellada	24.2	28.8	42.1	56.0	62.8	75.0	80.1	74.0	75.2	59.4	44.4	38.4	55.0	104	—9	Apr. 23	Oct. 15
Sublett	.....	22.2	36.6	50.4	61.0	72.0	76.9	70.8	68.0	56.2	.....	.....	.....	96	.....	.....	.....
Unionville (*a*)	.....	.....	34.1	47.2	59.3	70.3	79.2	74.3	[b]66.7	60.5	32.6	26.2	.....	[b]100	.....	Apr. 23	Oct. 19
Vermont (*a*)	23.0	27.0	40.2	53.5	61.0	72.3	76.7	71.4	69.6	55.8	40.2	35.5	52.2	100	—6	Apr. 23	Oct. 15
Warrensburg (*a*)	23.5	28.1	41.7	55.0	62.9	73.8	78.4	73.8	72.1	58.7	41.4	.....	.....	102	.....	Apr. 23	Oct. 15
Warrenton	23.1	30.2	41.4	54.4	61.8	73.5	78.2	.....	[b]71.7	56.1	41.8	34.0	.....	.....	—5	.....	Oct. 15
Wellsville (*a*)	25.2	27.5	39.2	.....	61.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	—8	.....	.....
Whiteside	20.3	26.2	40.2	52.8	.....	.....	76.4	72.5	70.3	56.4	41.6	.....	.....	.....	—10	Apr. 23	Oct. 15
Montana.																	
Boulder	18.4	16.4	27.6	36.0	49.0	54.2	64.0	62.9	50.9	38.5	29.1	23.6	39.6	95	—39	July 14	Aug. 8
Bozeman	21.9	14.8	27.1	37.0	48.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	—42	.....	.....
Camp Poplar River	7.7	0.1	13.4	37.7	56.7	64.8	68.2	67.2	[e]63.4	.....	.....	.....	.....	107	—54	May 1	Sept. 19
Choteau	26.0	12.8	30.4	37.8	51.8	57.6	67.4	66.9	55.7	42.2	29.0	30.0	42.3	105	—42	June 5	Aug. 8
Cokedale (*b*)	20.5	17.8	24.4	34.2	50.2	60.6	66.6	.....	49.8	41.3	28.6	27.8	.....	108	—41	May 28	Sept. 18
Columbia Falls	.....	.....	[e]30.6	37.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Corbin (*a*)	.....	15.5	30.3	36.6	49.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	—45	.....	.....
Deer Lodge City	21.2	23.4	31.4	38.8	49.2	.....	.....	.....	.....	37.5	30.3	27.4	.....	.....	—25	May 26	.....
Dry Forks	.....	.....	27.0	39.4	56.2	59.7	69.6	64.0	51.5	.....	.....	.....	.....	.....	.....	May 25	Sept. 16
Elk Park	10.8	7.6	.....	.....	.....	.....	.....	55.5	47.1	36.6	.....	21.7	.....	.....	—34	.....	Aug. 7
Fort Custer	26.2	12.0	29.9	41.3	54.4	63.8	73.5	72.9	61.2	47.2	31.7	31.0	45.8	110	—44	May 20	Sept. 24
Fort Keogh	18.6	5.0	21.5	39.1	53.7	64.8	72.6	71.6	59.8	42.7	26.1	19.4	41.2	110	—42	May 23	Sept. 24
Fort Logan	15.4	7.4	23.4	33.4	45.0	52.0	.....	.....	48.8	.....	26.2	28.3	.....	.....	—46	June 6	Sept. 22
Fort Missoula	21.5	19.2	28.1	39.8	49.7	53.9	62.9	62.0	52.9	39.8	30.0	27.8	40.6	101	—27	June 20	Aug. 14
Glasgow	.....	.....	.....	.....	.....	.....	71.3	68.8	56.8	42.7	22.5	14.3	.....	110	.....	.....	Aug. 11
Glendive	13.5	6.9	21.7	40.7	58.0	68.2	76.8	72.5	61.2	45.0	26.0	18.8	42.5	117	—47	May 25	Sept. 19
Great Falls	27.0	19.8	35.7	41.9	57.8	64.0	71.3	66.8	56.4	45.9	27.6	29.2	45.3	103	—42	May 25	Aug. 8
*Havre	16.8	6.0	18.0	36.8	54.2	59.3	68.6	67.4	54.7	40.8	25.2	23.0	39.2	103	—45	May 25	Sept. 18
*Helena	21.9	12.2	30.4	38.8	51.2	56.8	69.5	66.4	54.4	42.2	31.0	31.2	42.2	102	—42	June 5	Sept. 23
Hogan	21.4	11.4	26.3	.....	.....	57.4	67.8	67.4	53.8	41.2	30.4	31.3	.....	104	—45	May 26	Aug. 8
Horr	20.4	21.2	31.0	.....	.....	.....	.....	64.1	53.2	43.0	.....	.....	.....	.....	—19	.....	Sept. 14
Martinsdale (*a*)	20.9	14.5	28.8	37.0	51.4	59.9	71.1	68.4	54.1	40.3	28.8	28.5	42.0	104	—52	June 5	Aug. 8
*Miles City	18.8	9.1	24.8	40.3	55.0	65.2	73.6	71.6	60.6	44.4	27.6	22.8	42.8	107	—45	May 11	Sept. 23
Mingusville	.....	.....	30.6	48.1	60.8	74.4	.....	[e]67.5	.....	.....	.....	20.2	.....	113	.....	June 25	Aug. 8
Musselshell (*a*)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30.3	.....	.....	.....	.....	.....
Powder River	.....	10.8	25.7	39.9	54.0	65.4	74.2	72.7	60.6	43.0	27.5	23.0	.....	110	—49	May 2	Sept. 17
Virginia City	24.0	19.4	28.4	36.2	47.0	58.0	67.8	64.2	51.9	40.8	32.0	27.6	41.4	97	—24	June 21	Sept. 18
Nebraska.																	
Agee (*a*)	20.3	19.6	30.9	45.5	58.2	73.8	77.2	73.1	66.8	47.7	31.7	21.5	47.2	105	—18	.....	Sept. 23
Albion	20.2	18.7	29.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ansley	22.3	20.8	31.7	48.4	56.4	.....	.....	.....	65.4	47.8	33.8	.....	.....	.....	.....	.....	Sept. 24
Arborville (*a*)	21.2	20.8	31.2	45.7	55.4	72.3	79.0	71.6	66.7	.....	33.7	30.7	.....	.....	.....	.....	Sept. 25
Ashland	16.6	19.5	32.8	48.3	59.2	73.5	77.9	71.6	67.0	52.8	35.0	26.5	48.4	100	—14	.....	Sept. 25
Ashton (*a*)	23.4	20.7	31.7	45.3	56.1	71.8	76.0	70.8	66.6	47.7	33.6	[e]25.7	47.4	100	—20	.....	.....
Auburn (*a*)	17.7	23.7	37.5	52.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bassett (*a*)	20.5	19.3	27.1	38.7	55.2	70.1	74.0	67.8	62.0	47.3	32.8	24.4	44.9	102	—28	.....	Sept. 15
Beatrice	21.1	22.2	33.7	51.4	60.6	73.6	79.9	73.3	68.4	54.9	36.8	32.2	50.7	102	—19	.....	Sept. 16
Beaver City	30.6	26.8	36.3	49.8	58.9	73.6	73.3	70.2	66.0	51.6	37.8	32.8	50.6	103	—1$_4$	.....	Oct. 12
Belvidere (*a*)	.....	21.4	34.0	49.9	.....	76.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burwell (*a*)	20.5	19.3	35.1	44.2	60.1	77.0	81.1	78.0	69.6	53.5	32.0	23.0	49.4	98	—20	.....	.....
Callaway	25.6	22.6	32.6	45.9	55.5	69.6	73.8	68.4	63.1	49.9	35.8	27.5	47.5	98	—22	.....	Sept. 27
Columbus	.....	.....	.....	.....	.....	.....	73.3	68.4	64.1	50.5	33.3	23.1	.....	.....	.....	.....	Sept. 25
Creighton (*a*)	15.4	16.3	29.3	42.4	54.4	69.0	72.1	67.7	61.1	45.5	31.2	21.9	43.9	97	—22	.....	Sept. 16
*Crete	21.0	23.0	35.2	50.4	59.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Crete [4]	20.5	22.2	34.0	48.9	.....	.....	76.2	71.0	67.7	54.0	38.2	28.9	.....	.....	—16	.....	.....
David City (*c*)	18.0	15.7	27.6	42.9	55.6	70.2	73.1	67.6	61.8	48.0	30.3	24.1	44.5	96	—16	.....	Sept. 25
De Soto	16.1	19.3	32.3	48.7	59.4	74.4	76.9	71.2	66.8	53.5	35.3	.....	.....	.....	.....	.....	.....
Dunning (*a*)	25.6	21.2	30.8	43.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Wm. Kaucher. [2] S. M. Ruley. [3] F. W. Duenckel. [4] Doane College.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Nebraska—Continued.																	
Ericson (a)	20.4	18.5	30.0	45.1	58.2	73.8	77.6	73.8	67.2	50.0	33.4	25.0	47.8	102	—21	.....	Sept. 27
Fairbury (c)	.....	.....	.....	*52.5	62.4	76.1	.....	74.0	69.8	58.7	40.0	35.6	.....	.....	.....	.....	.....
Fort Robinson	29.4	23.2	32.6	42.8	52.8	69.2	71.8	69.7	62.6	48.3	35.4	30.4	47.4	102	—21	.....	.....
Fort Sidney	30.6	25.4	31.5	43.9	53.3	70.0	74.8	68.8	61.5	48.8	35.4	29.2	47.0	102	—15	.....	.....
Franklin	27.7	24.4	35.0	51.5	59.4	73.0	77.4	71.8	66.5	53.0	36.9	32.6	50.8	104	—14	.....	.....
Fremont (a)	16.9	19.1	31.8	48.5	59.6	73.2	75.6	70.9	.....	.....	.....	.....	.....	.....	.....	.....	.....
Geneva	.....	.....	.....	.....	.....	.....	77.8	72.6	67.6	54.3	35.0	30.8	.....	103	—9	.....	Sept. 16
Genoa	19.4	19.8	29.7	45.7	58.0	72.3	75.4	71.1	66.8	50.6	34.4	25.7	47.5	97	—22	.....	Sept. 25
Gering (a)	30.8	*24.8	33.2	42.8	53.9	71.5	*74.5	69.7	*62.0	49.6	36.2	*31.3	48.3	101	—16	.....	Sept. 22
Glenwood (c)	.....	.....	.....	41.6	54.2	70.0	73.2	66.5	60.3	42.5	27.5	20.8	.....	.....	.....	.....	Sept. 25
Haigler (a)	28.1	27.2	34.7	47.5	54.9	72.6	78.7	72.0	*67.4	49.8	33.8	24.5	49.3	104	0	.....	Oct. 2
Harrison (a)	.....	.....	*28.9	35.8	49.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hartington	14.4	14.0	26.4	44.3	54.6	70.7	73.4	69.0	63.8	48.8	33.4	19.2	44.3	99	—25	.....	Sept. 25
Harvard (a)	22.1	22.1	32.9	48.4	.....	*73.9	77.3	71.4	66.7	50.8	34.6	28.3	.....	104	—16	.....	Oct. 28
Hay Springs	24.4	19.7	28.5	*39.0	.....	.....	.....	68.1	61.2	*48.2	31.4	27.3	.....	.....	.....	.....	Sept. 22
Hebron	24.6	25.3	36.4	51.1	59.9	73.6	77.4	72.2	68.8	53.6	37.7	32.3	51.1	101	—14	.....	.....
Holdrege (c)	21.7	19.0	29.6	46.5	60.2	75.3	78.6	*72.9	66.0	*49.4	*32.4	28.5	48.3	.....	—16	.....	.....
Imperial (a)	.....	27.4	37.4	50.1	57.3	72.4	78.6	76.0	70.4	53.9	39.9	31.8	.....	101	—14	.....	.....
Indianola (c)	.....	27.8	35.8	49.8	59.0	73.3	79.2	73.4	67.8	51.4	39.1	33.2	.....	110	—22	.....	Sept. 16
*Kearney	24.8	22.8	33.1	47.8	57.0	71.3	75.0	70.7	66.5	51.4	36.8	30.4	49.0	99	—18	Apr. 14	Sept. 25
Kennedy (a)	24.6	21.0	30.5	42.6	53.9	69.1	73.7	68.7	62.8	47.5	33.8	29.4	46.5	99	—19	.....	Sept. 23
Kimball	31.2	26.8	.....	43.2	53.3	69.4	74.3	70.0	.....	49.2	36.0	32.6	.....	103	—13	.....	.....
Lexington	30.4	27.6	36.8	54.2	60.7	70.7	75.4	72.6	65.5	52.8	40.2	34.0	51.8	98	—21	.....	Sept. 25
Lincoln (a)	19.6	21.3	33.7	49.4	59.3	73.0	77.2	72.0	69.0	54.4	37.0	29.7	49.6	99	—14	.....	.....
Lynch (a)	.....	.....	.....	44.5	56.2	73.4	76.2	72.1	65.1	47.0	31.1	20.9	.....	.....	.....	.....	Sept. 27
Madrid (c)	27.0	24.2	31.6	45.7	56.2	72.8	77.3	69.4	62.8	48.6	34.4	31.5	48.5	101	—16	.....	Sept. 25
Minden (a)	24.2	22.2	33.0	47.5	57.2	71.5	75.5	70.2	66.2	50.5	35.2	29.7	48.6	101	—16	.....	Sept. 25
Mullen (a)	20.3	20.8	30.5	44.2	57.0	70.8	75.6	70.5	64.0	47.5	33.6	25.3	47.5	96	—17	.....	.....
Nebraska City	14.9	.....	33.6	49.2	58.6	71.9	75.3	68.4	66.1	.....	35.3	.....	.....	95	.....	.....	.....
Nesbit	17.2	13.6	32.2	46.6	56.0	70.0	75.5	68.8	63.3	48.3	34.9	28.6	46.2	103	—20	.....	Sept. 24
Norfolk	16.4	16.7	28.4	43.9	56.2	*75.0	*74.6	70.4	66.1	49.1	32.4	22.7	46.0	94	—20	.....	.....
North Loup (a)	22.6	21.4	31.4	48.2	57.6	73.2	74.3	71.6	66.7	50.4	36.4	28.0	48.5	96	—25	.....	Sept. 14
*North Platte	27.4	23.5	33.0	45.2	55.6	69.8	73.6	68.8	64.4	49.5	35.0	29.5	47.9	96	—16	May 23	Sept. 22
Oakdale	17.1	16.6	28.5	.....	.....	71.9	.....	70.3	.....	.....	.....	.....	.....	.....	—24	.....	.....
Ogallala	.....	.....	.....	55.1	72.1	79.1	72.8	64.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
O'Neil (a)	18.4	16.6	28.1	44.2	56.3	71.7	75.5	70.4	64.7	47.9	31.4	22.5	45.6	101	—22	.....	Sept. 25
*Omaha	16.0	19.5	33.6	48.4	59.0	73.1	76.6	71.4	68.5	55.4	36.8	26.8	48.8	97	—16	Apr. 27	Sept. 25
Paddock (a)	.....	16.1	28.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Palmer (a)	19.4	16.8	27.7	43.3	55.9	71.5	77.7	72.2	66.4	50.2	32.7	26.5	46.5	102	—24	.....	Sept. 15
Ponca (a)	.....	.....	27.6	44.1	57.4	73.8	76.7	72.3	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ravenna (a)	23.7	21.4	32.0	48.0	56.8	71.5	74.9	70.6	65.7	49.6	34.8	28.5	48.1	100	—20	.....	Sept. 16
Santee Agency	17.7	17.0	30.2	45.7	58.2	74.1	75.7	73.2	67.1	50.6	34.5	19.5	46.9	101	—21	.....	Sept. 25
Seward (c)	21.6	24.3	35.0	47.8	60.0	77.3	75.8	73.3	68.7	53.2	38.2	30.5	50.0	105	—14	.....	.....
Springview	20.1	17.3	28.4	42.6	*54.5	70.8	74.9	.....	.....	45.6	32.6	24.2	.....	.....	—23	.....	.....
Stanton (a)	16.5	15.4	26.9	42.1	54.8	70.7	74.4	69.3	63.6	48.9	31.0	22.2	44.6	.....	.....	.....	Oct. 12
State Farm (a)	19.2	21.9	33.2	49.1	58.7	72.3	76.7	70.8	67.4	51.2	36.6	29.4	49.1	105	—18	.....	.....
Superior (c)	23.6	24.9	37.2	48.9	58.8	69.7	74.3	73.3	69.0	56.4	38.6	35.0	51.0	101	—10	.....	.....
Sutton (a)	.....	.....	.....	.....	.....	.....	.....	71.4	65.5	50.0	33.0	28.9	.....	.....	.....	.....	Sept. 16
Syracuse (a)	18.1	21.1	35.1	50.2	61.3	74.5	79.0	72.5	68.6	54.2	36.9	29.5	50.1	102	—13	.....	Sept. 25
Table Rock (a)	18.0	23.4	36.7	51.7	60.5	72.8	77.4	72.8	69.6	58.0	39.3	31.7	51.0	104	—14	.....	Sept. 26
Tecumseh	.....	22.9	35.9	49.5	.....	74.7	76.8	72.0	65.8	55.8	†33.4	.....	.....	.....	.....	.....	Sept. 16
Tekamah	15.4	17.4	30.8	47.5	.....	71.4	74.4	68.2	64.2	.....	.....	.....	.....	98	—20	.....	Sept. 16
Thedford (a)	22.6	18.4	.....	42.4	*52.3	.....	72.5	.....	.....	.....	.....	.....	.....	.....	—24	.....	.....
Turlington	19.5	22.7	36.3	52.5	62.4	75.6	79.8	76.6	.....	.....	.....	.....	.....	.....	—17	.....	.....
*Valentine	.....	.....	30.8	42.0	53.8	69.8	74.6	69.5	63.2	47.4	33.8	25.8	.....	102	.....	May 2	Sept. 23
Wallace (a)	31.0	22.2	31.9	46.1	56.8	71.2	76.2	68.7	62.0	47.7	34.2	29.7	48.1	100	—18	.....	.....
Weeping Water (a)	14.0	18.4	31.5	45.8	55.4	69.0	72.2	66.0	62.7	51.1	31.8	25.3	45.3	102	—20	.....	.....
West Point (c)	13.5	14.8	27.9	44.5	59.8	73.2	*76.4	72.6	.....	53.8	37.0	25.6	.....	100	—26	.....	.....
Whitman (a)	24.3	20.7	27.9	37.9	51.0	70.1	73.0	65.8	59.6	41.8	31.3	24.3	44.0	95	—18	.....	.....
York (a)	22.3	20.9	.....	56.3	64.1	80.4	81.3	72.4	.....	58.1	37.6	28.4	.....	.....	.....	.....	.....
Nevada.																	
Austin	33.1	26.8	33.3	35.0	*50.4	59.8	57.0	67.8	54.0	46.4	34.8	32.7	45.1	91	2	May 26	Sept. 21
Battle Mountain (g)	26.6	31.3	41.6	47.2	56.9	70.3	78.2	72.9	62.4	54.1	38.0	38.7	51.5	97	—6	May 11	Oct. 2
Belleville (b)	29.2	20.6	.....	41.9	58.9	70.7	74.6	73.0	59.7	49.3	37.8	34.8	.....	108	10	.....	Nov. 3
Belmont	32.6	24.8	29.6	37.0	48.8	60.9	66.4	65.8	53.6	46.3	35.4	31.2	44.4	89	—5	May 26	Sept. 6
Beowawe (g)	26.0	26.8	36.2	37.7	55.7	71.3	79.1	78.0	60.9	50.3	34.3	31.2	48.9	100	—11	.....	.....
Browns (g)	31.4	35.4	44.1	49.3	60.6	79.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Candelaria	36.0	32.1	36.8	44.5	58.0	67.7	73.8	75.2	61.7	55.1	44.4	40.4	51.7	97	12	May 21	Oct. 11
Carlin (g)	19.1	20.0	32.0	39.4	49.8	61.3	69.6	70.9	58.3	41.8	28.0	26.1	43.0	96	—26	.....	.....
*Carson City	36.2	35.7	41.0	44.2	52.2	60.5	66.9	67.1	55.8	49.4	41.6	39.0	49.1	93	8	May 26	Sept. 12
Carson City (a) (1)	32.8	33.3	39.5	44.0	51.3	58.7	65.5	66.0	54.4	47.8	39.7	37.3	47.5	94	5	.....	.....
Downeyville	37.2	37.3	43.0	49.3	59.6	70.4	77.3	78.4	66.3	57.0	44.8	42.0	55.3	107	19	June 23	Sept. 7
Edgewood	.....	.....	.....	.....	.....	*52.6	61.0	62.6	*48.1	43.8	36.6	32.8	.....	89	.....	June 16	Sept. 8
Elko (near) (a)	14.0	19.9	32.4	38.7	49.5	59.8	63.0	68.8	54.2	44.3	35.0	31.3	41.8	106	—32	May 21	Sept. 8
Elko (g)	16.9	22.0	33.5	39.9	51.5	64.8	69.5	68.1	57.3	45.9	31.5	30.2	44.3	103	—20	.....	Sept. 8
Ely	23.2	26.9	33.8	39.0	49.8	60.0	66.1	62.8	53.0	43.8	33.8	29.9	43.5	98	—14	June 13	Sept. 7
Empire Ranch	38.0	33.2	36.6	34.6	45.4	58.3	57.6	.....	.....	.....	.....	.....	.....	.....	—15	Apr. 25	.....
Fencion (g)	22.9	20.4	33.3	40.8	52.8	66.5	75.5	75.6	66.2	50.6	38.2	34.6	48.4	120	—10	.....	.....
Genoa	33.6	32.2	28.4	41.6	.....	.....	64.6	71.9	58.2	51.0	44.3	27.6	.....	.....	8	June 9	Sept. 17
Golconda (a)	22.8	26.8	35.1	40.5	56.0	67.7	76.6	75.7	60.3	50.8	38.4	36.2	48.9	110	—12	Apr. 24	Nov. 2
Gold Hill	.....	.....	.....	.....	.....	.....	.....	.....	*61.0	59.1	47.3	42.6	.....	.....	.....	.....	Sept. 10
Halleck (a)	13.4	16.6	29.5	37.0	48.6	60.4	68.7	71.4	55.5	40.5	27.9	24.4	41.2	108	—32	June 15	Sept. 25
Hawthorne[2]	35.0	35.8	41.9	46.8	55.6	66.8	73.4	74.0	61.1	51.8	41.4	38.0	51.8	98	8	May 25	Oct. 2
Hawthorne (g)[2]	35.0	36.7	44.3	51.1	59.0	71.1	77.7	77.9	61.3	56.3	42.7	38.2	54.3	98	12	.....	.....
Hot Springs (a)	32.8	30.2	40.0	50.2	62.9	77.1	80.8	84.8	64.9	56.2	41.2	33.6	55.1	100	7	May 2	Oct. 27
Humboldt (g)	27.4	31.6	.....	43.0	57.4	74.5	75.0	75.5	54.3	45.2	35.4	31.6	.....	.....	.....	.....	.....

[1] Prof. C. W. Friend. [2] C. P. Mengel. [3] Central Pacific Railway.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Nevada—Continued.																	
Lewers Ranch	34.2	31.8	38.5	42.1	51.5	58.6	66.8	68.6	56.6	48.7	42.8	37.8	48.2	93	10	May 21	Sept. 22
Lovelock (g)	28.7	35.7	.....	43.3	62.9	69.2	.....	76.9	61.8	50.6	43.5	31.9	.....	.....	.....	.....	.....
McDermitt	21.6	25.3	35.8	40.5	52.0	57.9	67.6	66.9	56.2	43.3	.....	.....	.....	104	−35	Aug. 17	Sept. 16
Mill City (a)	25.9	30.7	35.3	41.7	53.6	65.7	73.5	73.4	65.4	57.3	42.2	36.5	50.2	104	−15	Apr. 25	.....
Monitors Ranch	26.6	27.4	33.6	39.9	50.2	59.6	64.8	64.6	53.4	42.9	33.6	*31.7	44.0	94	−9	June 4	Sept. 21
Palisade (a)	22.9	25.4	35.1	40.8	50.9	64.7	76.5	77.9	58.9	52.5	32.8	32.7	48.3	106	−11	May 20	Sept. 15
Palmetto	34.4	31.6	32.9	43.8	51.0	60.0	64.8	66.4	54.8	45.8	36.1	33.4	45.2	93	−7	May 19	Sept. 12
Pioche	*38.4	33.9	38.6	46.0	56.6	67.6	72.5	72.7	.....	51.1	.....	.....	.....	98	4	May 27	Sept. 30
Reno, State University	32.3	31.9	40.2	42.0	50.2	59.0	66.8	68.6	55.2	47.7	38.3	36.1	47.4	95	9	May 1	Sept. 10
Reno (g)[1]	34.2	33.0	41.6	48.1	57.6	64.3	74.3	73.8	57.1	47.7	42.3	36.5	51.0	101	13	.....	.....
St. Clair	35.6	32.8	41.6	46.4	55.2	64.6	71.6	71.4	58.4	49.2	39.0	34.8	50.1	94	8	Apr. 25	Sept. 19
South Camp	34.3	27.9	31.4	36.8	47.8	58.1	67.0	70.7	52.5	46.3	36.6	34.1	45.3	88	8	May 20	Sept. 10
Stofiel	15.9	16.2	27.2	33.2	42.8	51.6	59.4	59.2	47.4	38.0	29.0	24.4	37.0	99	−40	(§)	(§)
Sunnyside	26.8	.....	.....	46.2	55.0	75.2	77.6	73.7	62.6	57.0	48.4	35.8	.....	103	−15	June 13	Sept. 7
Tecoma (g)	16.7	20.9	32.3	42.0	51.0	.....	72.1	72.8	57.6	42.3	31.2	27.8	.....	.....	.....	.....	.....
Toano (g)	15.2	13.3	28.4	37.4	50.3	66.7	72.0	72.2	55.4	43.6	31.3	29.5	42.9	102	−5	May 11	Sept. 30
Tuscarora	.....	26.3	32.6	35.2	48.3	61.4	68.4	68.6	50.0	43.1	32.6	.....	.....	104	4	(§)	(§)
Tybo	39.2	32.4	35.9	42.4	53.2	63.9	*69.5	69.5	59.0	51.4	41.3	35.6	49.4	96	4	May 30	Sept. 11
Verdi (g)	33.9	29.2	37.7	42.5	44.7	61.7	68.7	70.2	54.3	48.5	40.6	36.0	47.3	95	3	.....	.....
Virginia City	38.3	32.2	38.0	42.0	52.0	61.7	71.4	73.4	*59.2	52.0	43.2	38.9	50.2	96	10	May 25	Sept. 30
Wabuska (a)	31.8	35.3	45.4	52.5	58.7	71.5	77.8	78.4	62.2	52.0	40.2	35.3	53.4	104	4	May 24	Sept. 8
Wadsworth (g)	31.0	33.4	43.2	41.6	53.8	63.9	73.0	72.2	55.9	44.7	38.4	35.2	49.3	101	8	.....	.....
Wells (g)	18.6	20.5	30.0	38.7	51.6	.....	66.9	67.6	54.5	43.6	29.3	27.5	.....	.....	.....	.....	.....
*Winnemucca	23.7	28.0	37.8	41.7	52.0	61.4	69.8	70.4	56.4	48.0	36.4	33.2	46.6	98	−19	May 25	Sept. 13
Winnemucca (g)	24.1	27.0	39.3	47.2	57.8	65.1	73.4	72.6	57.1	48.3	36.9	33.5	48.5	95	−18	.....	.....
New Hampshire.																	
Alstead (d)	.....	.....	.....	.....	.....	.....	.....	65.8	52.2	47.8	32.4	20.0	.....	.....	.....	.....	Sept. 27
Berlin	3.8	12.0	21.0	33.4	.....	.....	.....	.....	*49.2	40.8	30.1	15.4	.....	.....	.....	.....	.....
Berlin Mills	6.6	13.2	22.9	34.8	52.2	64.8	68.6	*62.3	50.9	46.6	31.8	10.3	38.8	89	−26	.....	Sept. 30
Bethlehem	8.1	13.7	23.8	35.2	51.8	64.8	64.4	64.6	50.8	*45.4	31.8	17.6	39.3	89	−20	.....	Sept. 26
Brookline (a)	15.2	23.9	30.9	42.2	56.6	67.2	70.2	68.7	56.7	50.1	36.8	25.7	45.4	93	−21	.....	Oct. 17
Concord	12.0	19.6	27.4	37.8	53.4	64.2	66.1	65.0	53.6	49.0	33.4	19.3	41.7	90	−15	.....	.....
Dublin	12.6	18.7	25.7	37.6	51.9	63.6	66.6	65.2	54.4	49.5	34.5	22.8	41.9	86	−14	.....	.....
Durham	16.4	22.6	*31.2	42.1	54.6	64.6	71.0	69.1	57.8	51.8	37.2	22.2	45.0	94	−10	.....	.....
East Canterbury	12.0	19.3	27.3	37.9	55.7	68.8	70.3	66.8	51.6	48.4	31.0	18.6	42.3	95	−14	.....	Oct. 17
Grafton (a)	10.9	18.2	27.5	37.9	55.8	*69.0	(*66.2	65.8	53.0	48.0	33.1	19.0	42.0	95	−20	.....	.....
Groveton (a)	6.4	13.0	23.1	34.7	52.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hanover (a)	10.3	17.4	27.2	38.2	54.3	66.4	66.3	64.8	53.0	49.1	34.7	19.0	41.7	87	−24	.....	Oct. 11
Keene	15.2	20.7	29.0	41.8	54.5	65.4	65.4	66.3	53.2	49.8	35.2	21.3	43.2	91	−21	.....	.....
Lancaster	9.9	15.9	26.5	35.8	52.8	66.3	64.8	65.5	51.4	48.9	32.6	17.7	40.7	93	−20	.....	Sept. 26
Littleton (a)	7.6	14.3	24.3	35.3	52.2	64.0	62.6	62.7	50.8	47.2	31.9	16.0	39.1	91	−23	.....	Oct. 26
*Manchester	15.4	21.2	30.0	40.8	55.5	66.0	69.2	68.4	56.6	52.4	.....	.....	.....	95	−6	May 8	Oct. 17
Manchester (a)[2]	15.2	21.8	30.8	42.2	57.1	66.8	71.0	69.8	57.8	52.4	38.4	.....	.....	95	.....	.....	.....
Nashua	15.3	22.7	30.6	41.9	56.1	66.5	69.8	69.2	57.4	51.9	36.1	23.5	45.3	96	−18	.....	.....
Newton	15.8	22.0	29.8	41.0	54.8	64.3	69.2	67.2	55.7	50.8	37.0	24.4	44.3	93	−9	.....	.....
North Conway	12.4	16.6	24.9	36.5	53.0	64.0	67.8	66.2	53.8	48.7	33.4	19.6	41.4	96	−23	.....	.....
Peterboro	12.6	19.4	27.0	38.7	.....	65.0	66.3	66.4	53.6	48.9	34.8	21.8	.....	94	−20	.....	.....
Plymouth (a)	9.6	15.2	24.0	34.8	52.0	65.0	65.0	64.3	52.0	46.2	30.3	17.5	40.1	96	−22	.....	Oct. 17
Sanbornton	11.7	16.8	25.0	36.7	53.2	63.8	65.3	65.4	52.8	48.8	34.2	20.8	41.2	89	−13	.....	Oct. 17
Stratford	10.3	16.4	26.9	38.6	54.5	68.8	67.3	67.6	55.5	51.7	35.0	16.5	42.4	99	−28	.....	.....
Tilton (a)	.....	20.2	28.4	38.0	53.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Walpole	11.2	18.8	26.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
West Milan	3.6	12.3	21.9	33.8	50.6	62.6	62.6	64.0	50.2	47.5	30.4	17.0	38.0	90	−28	.....	.....
New Jersey.																	
Allaire	20.9	30.6	36.1	48.1	57.4	67.0	71.2	70.4	61.2	53.4	41.9	36.6	49.6	96	−14	May 8	Oct. 17
*Atlantic City	22.9	32.0	36.5	47.2	56.4	66.8	72.5	72.0	64.6	56.6	45.0	37.8	50.9	93	−4	Feb. 14	Oct. 30
Asbury Park (a)	23.0	31.4	36.0	47.4	58.4	68.8	74.6	72.7	64.2	55.8	43.2	36.6	51.0	97	−4	Apr. 3	Oct. 30
Barnegat	22.4	31.3	38.8	52.4	57.4	68.9	73.2	70.8	62.4	55.7	41.6	36.0	50.8	98	−5	Apr. 19	Oct. 30
Bayonne	22.1	29.3	35.9	48.7	59.3	70.6	75.0	74.5	64.4	56.6	42.8	34.6	51.2	100	−8	Apr. 3	Oct. 17
Belvidere	19.0	26.3	33.9	46.4	.....	.....	.....	72.4	62.5	55.0	40.4	30.6	.....	.....	−13	Apr. 26	Oct. 17
Beverly (a)	20.4	30.2	36.5	49.5	59.1	69.8	73.1	71.8	61.7	54.2	40.9	33.7	50.1	103	−13	Apr. 7	Oct. 17
Billingsport (a)	21.2	30.8	36.8	50.7	61.0	73.5	77.0	74.8	65.1	56.0	42.5	34.7	52.0	98	−4	Mar. 30	Oct. 17
Blairstown	17.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	40.4	31.9	.....	.....	.....	.....	Oct. 17
Boonton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40.6	†33.0	.....	.....	.....	Mar. 29	Oct. 17
Bridgeton (a)	25.2	34.6	41.0	53.3	63.4	74.0	78.4	76.1	67.0	57.8	45.2	38.6	54.6	98	−5	Apr. 7	Oct. 30
Camden	21.5	31.3	37.7	50.9	60.5	71.4	75.0	73.8	64.4	55.7	42.2	34.2	51.0	97	−7	Apr. 7	Oct. 31
Cape May C. H	23.7	34.8	38.4	50.2	58.8	69.0	73.8	72.6	65.5	56.2	45.2	40.4	52.4	96	−7	Apr. 11	Oct. 17
Charlottsburg	.....	.....	.....	*46.4	56.1	65.9	68.2	68.8	57.7	51.2	37.7	31.8	.....	95	.....	May 20	Sept. 27
Chester	.....	.....	.....	.....	.....	67.7	71.0	70.5	59.4	52.2	38.4	31.2	.....	93	.....	.....	Oct. 17
Deckertown	19.0	25.5	*31.8	45.3	†56.6	*69.3	69.0	71.1	59.4	52.8	38.4	(30.0)	(47.4)	98	−4	May 6	Oct. 17
Dover	18.0	25.6	32.4	46.0	56.6	67.0	69.2	69.0	58.4	53.6	*41.0	32.2	47.5	97	−13	May 25	Sept. 27
Egg Harbor City (a)	20.4	32.6	37.3	49.4	58.2	68.7	72.6	71.1	62.8	53.6	42.0	36.2	50.4	99	−13	Apr. 24	Oct. 17
Elizabeth (a)	20.6	28.1	34.9	47.7	61.3	71.9	76.3	74.8	63.2	55.8	43.2	35.4	52.2	103	−2	Apr. 26	Oct. 17
Franklin Furnace	.....	.....	.....	.....	.....	67.8	69.8	69.4	58.2	51.8	37.8	.....	.....	93	.....	.....	Sept. 30
Franklinville	20.6	32.2	37.6	50.4	59.6	69.9	74.3	72.4	62.6	54.3	41.5	35.8	51.0	99	−18	Apr. 24	Oct. 17
Freehold (a)	23.5	31.4	37.4	49.4	59.5	69.0	70.8	72.2	62.5	55.2	43.4	35.8	50.8	94	−4	Apr. 7	Oct. 17
Gillette	19.0	26.7	34.8	47.1	58.6	69.7	72.5	71.6	59.8	53.0	39.4	32.0	48.7	98	−18	Apr. 26	Oct. 16
Hanover	19.4	*28.7	34.4	49.6	59.8	69.2	72.6	71.5	61.8	54.2	41.4	33.6	49.7	94	−18	Apr. 7	Oct. 17
Highland Park	20.5	28.6	35.9	49.0	59.8	70.0	74.5	73.4	62.2	54.4	41.0	33.2	50.2	98	−10	Apr. 24	Oct. 17
Hightstown (a)	19.6	29.2	35.6	48.4	58.2	67.9	71.7	71.5	61.4	55.6	42.8	35.3	48.6	100	−14	Apr. 7	Oct. 30
Imlaystown (a)	21.1	31.2	36.9	50.1	60.4	71.6	76.2	74.6	64.0	55.6	42.6	36.0	51.7	103	−6	Mar. 31	Oct. 17
Lambertville	20.4	28.6	36.0	49.8	60.6	70.2	74.4	72.9	62.6	55.6	39.4	33.6	50.3	97	−13	Apr. 10	Oct. 16
Locktown	20.6	28.6	35.0	48.5	59.1	70.4	74.0	73.0	62.4	54.3	(39.0)	(33.0)	(49.8)	98	−8	Apr. 7	Oct. 17
Millville	(24.0)	(34.0)	41.0	54.0	63.3	*73.2	77.0	75.8	66.7	57.2	44.0	37.6	(54.0)	103	7	Mar. 30	Oct. 17

[1] Central Pacific Railway. [2] W. Little. § Temperature fell to freezing point every month in the year.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
New Jersey—Continued.																	
Moorestown (a)	20.7	30.3	36.8	49.4	59.3	71.6	73.5	72.0	62.7	54.9	41.8	34.0	50.6	98	−9	Apr. 19	Oct. 17
Newark [1]	22.1	28.3	35.5	47.0	58.5	68.4	73.6	72.8	62.0	54.8	41.0	33.6	49.8	96	−1	Apr. 7	Oct. 17
Newark [2]	23.2	29.8	36.4	48.2	60.2	69.9	75.0	73.8	63.4	56.2	43.3	34.0	51.1	97	−1	Apr. 7	Oct. 30
*New Brunswick	20.5	28.6	35.9	49.0	59.8	70.0	74.5	73.4	62.2	54.4	41.0	33.2	50.2	98	−10	Apr. 7	Oct. 17
New Brunswick [3]	21.4	29.0	37.2	50.5	61.2	71.4	75.1	73.5	63.8	56.4	42.4	34.0	51.3	100	−8	Apr. 7	Oct. 17
New Brunswick [4]	21.2	27.6	34.4	47.6	58.4	68.8	73.6	72.8	62.0	54.6	41.5	34.6	49.8	96	−10	Apr. 7	Oct. 17
Newton	17.8	24.4	31.7	45.8	58.2	69.0	71.6	71.4	59.3	53.1	38.8	29.9	45.2	101	−10	Apr. 26	Oct. 17
Ocean City	24.9	33.4	37.4	47.8	56.9	68.4	74.2	73.0	65.8	57.7	44.8	38.3	51.9	93	−4	Mar. 30	Oct. 30
Oceanic	24.0	32.0	38.8	51.0	61.4	73.6	76.5	75.8	66.5	57.8	40.2	38.4	53.0	101	−5	Mar. 30	Nov. 1
Paterson	23.3	30.6	37.2	50.0	61.5	70.6	74.6	73.8	63.0	56.6	43.9	35.4	51.7	101	0	Apr. 7	Oct. 17
Perth Amboy										55.4	41.0	[b]32.0					
Plainfield	22.2	29.6	36.0	49.0	59.4	70.4	74.5	73.5	62.4	54.8	41.0	33.3	50.5	100	−8	Apr. 7	Oct. 17
Readington (f)	25.3	32.4	38.6	53.4	63.4	74.2	76.5	75.9	68.2	60.1	[f]48.5	[d]36.2	54.4	96	−4		Oct. 17
River Vale (a)	24.2	30.9	33.6	47.1	58.8	69.0	72.1	71.8	60.1	53.0	40.4	31.2	49.8	99	−21	Apr. 26	Oct. 1
Salem	23.5	30.4	40.2	53.3	60.0	69.8	75.4	[e]75.2	64.6	54.2	42.0	34.5	51.9	102	−5	Apr. 7	Oct. 17
Somerville	20.4	28.6	36.4	50.0	60.2	70.6	74.9	74.8	63.9	56.7	42.5	33.4	50.8	99	−20	Apr. 24	Sept. 28
South Orange (a)	20.2	28.0	34.6	46.8	58.2	68.4	72.0	71.5	60.6	53.8	40.8	33.1	49.5	97	−2	Apr. 6	Oct. 30
Tenafly (a)	20.1	27.9	34.6	47.0	59.9	69.3	73.6	70.8	61.4	54.3	39.9	32.0	49.4	95	−20	Apr 26	Oct. 11
Toms River	21.6	31.6	36.3	49.1	58.4	68.8	73.2	71.7	62.6	53.5	41.6	36.7	50.4	99	−15	Apr. 24	Oct. 17
Trenton	24.1	30.4	37.8	50.5	61.6	73.4	78.6	75.5	65.6	56.9	43.2	36.0	52.8	98	−5	Mar. 31	Oct. 17
Vineland	(24.0)	35.4	39.2	51.7	60.6	[e]71.2	77.2	74.7	65.6	57.4	43.4	36.5	(53.1)	102	9	Apr. 24	Oct. 17
West Summit							71.4	71.1									
Whiting	23.3	33.4	38.8	50.4	59.4	70.1	[e]74.2	73.2	63.9	56.0	43.8	38.4	52.1	101	−10	Apr. 12	Oct. 17
Woodbine	22.2	33.0	36.9	50.1	58.6	69.9	73.8	71.8	64.2	55.5	43.0	37.0	50.9	95	−15	Apr. 24	Oct. 17
New Mexico.																	
Albert	42.2	39.7	47.8	57.2	64.7	77.4	81.8	74.4	70.3	58.2	45.2	42.0	58.4	104	11		
Albuquerque	37.1	40.8	45.8	55.4	63.2	76.0	77.4	73.0	65.7	52.3	41.2	36.1	55.4	98	11		Oct. 21
Bloomfield	29.1	33.2															
Chama	29.4	28.1	32.3	42.1	50.2	61.6	66.0	64.2	57.6	47.4	37.8	35.6	46.8	93	−12		Sept. 7
Coolidge							67.9	66.4	59.0	45.9	31.7	37.2					
Deming (g)	50.4	55.6	54.2	70.4	76.7	88.8	86.5	80.3	76.8	70.3	57.0	53.3	68.4	108	18		
East Las Vegas	35.4	35.4	40.6	49.8	57.5	67.8	69.4	65.4	59.7	48.6	40.0	36.8	50.5	94	3		Oct. 2
Embudo	35.1	38.4	42.2	53.1	61.4	74.2	76.2	73.4	64.6								
Estalina Springs	33.4	36.2	[f]36.2		[f]57.2		68.6	[b]63.5			[b]38.0	33.6			9		
Folsom	[e]32.6	31.9	39.4	46.8	55.4	[e]68.6	[e]70.3										
Fort Bayard	41.4	42.2	44.3	54.7	59.8	74.4	73.6	70.3	65.0	55.6	45.4	42.2	55.7	99	13		
*Fort Stanton	38.1	39.0	42.8	54.2	58.4	69.2	68.4	64.9	60.4	51.2				93	5	May 8	Sept. 11
Fort Wingate	35.6	34.6	37.9	47.6	45.4		62.0	62.4	58.2	52.7	48.8	38.6		93	4		
Gallinas Spring	36.6	37.0	45.8	56.2	64.0	75.3	78.2	74.0	66.1	55.9	43.4	39.6	55.9	107	1		Oct. 2
Halls Peak	30.8	32.0	35.8	43.9	51.2	60.6	60.8	59.3	54.2	47.2	[e]35.8	33.6	45.4	91	−17		Oct. 2
Hillsboro	42.4	46.0	49.0	60.7	64.2												
La Luz	45.0			61.6	64.1	77.4	75.4	71.8	[e]67.8	59.0	[e]43.6	46.4		93	21		Nov. 12
Las Cruces	43.4	44.5	50.6	58.5	62.6	77.8	79.0	78.2	70.1	56.7		42.7		106	9		
Lordsburg (g)	40.0	44.5	50.4	65.0	72.4		85.9	81.3	75.5	59.1	49.9	46.3		108	21		
Los Lunas	34.4	39.6	41.4	56.6	62.0	72.5	72.4	65.3	58.0	49.0	38.9	35.2	52.1	103	13		
Monero	24.3	27.2	31.8	41.2	50.6	60.4	63.3	62.0	54.0	41.8	31.6	26.7	42.9	93	−11		Sept. 4
Olio	29.3	36.9	41.2	51.6	59.1	71.1	77.2	74.3	64.5	52.2	39.3	34.4	52.6	101	4		
Roswell		47.2		61.8													
*Santa Fe	33.6	33.8	38.3	47.8	55.3	68.4	68.6	65.8	59.8	49.6	38.4	33.7	49.4	89	5	Apr. 30	Oct. 2
Socorro	37.2	44.2	48.7	60.2	65.7	79.9	75.8	75.8	70.0	54.5	46.2	39.3	58.1	102	10		
Springer	32.7	33.8	40.8	49.6	59.8	71.5	[e]75.9	67.3	62.5								
Sulphur Hot Springs									53.3	41.4	30.0						Sept. 9
Taos	29.3	30.4	37.1	46.1	55.5	68.7	69.3	65.2	58.4	46.8	35.6	29.0	47.6	99	−1		
New York.																	
Addison (a)	17.8	23.8	31.8	43.7	55.9	67.1	68.4	66.5	56.9	49.5	37.0	29.2	45.6	93	−14	May 8†	Oct. 17
*Albany	16.8	21.6	31.4	44.0	58.4	70.5	72.0	72.0	59.2	53.7	38.7	25.7	47.0	96	−6		Oct. 17
Albion (a)	15.9	22.1	30.0														
Alfred Center (a)	13.8	20.0	26.9	[e]30.7	52.9	65.6	67.6	65.1	52.8	49.3	34.5	25.4	42.8	93	−10	May 8†	Sept.26†
Ampersand (a)	7.8	14.0	24.0	36.1	52.5	[e]65.4	63.3								−20	May 20†	
Angelica (a)	14.1	20.8	29.3	41.0	52.9	65.6	67.2	64.1	55.3	47.2	34.2	27.0	43.1	93	−23	May 20†	Sept. 26
Arcade (a)	12.3	18.5	27.0	39.0	52.1	65.8	69.2	64.3	55.1	47.8	34.2	25.5	42.6	90	−9	May 26†	Sept. 26
Arkwright	16.1	21.9	29.0	40.6	51.7	65.5	67.5	65.8	57.1	50.3	37.2			84	−7	Apr.26†	Oct. 29†
Baldwinsville (a)	16.7	21.3	30.2	42.0	56.5	68.9	69.3	67.7	55.4	51.1	37.4	26.8	45.3	93	−5	Apr.26†	Oct. 1
Binghamton (a)	15.7	21.4	30.7	43.1	55.1	68.0	68.1	66.8	56.8	50.4	36.6	28.5	45.1	93	−28	May 8†	Sept.27†
Boyds Corners (a)	19.2	26.8															
Brentwood (a)	19.7	28.6	34.2	43.6	56.4	[e]66.4	71.5	[e]69.8	59.6		[d]33.5			97	−12	Apr.24†	
Brockport	18.2	22.8	31.2	[b]43.0	57.2	72.3				[b]51.8	[e]38.7				−3		
Brookfield (a)	15.6	19.4	28.4	39.8	52.4	66.2	66.5	64.8	56.2	46.7	33.9	25.3	42.9	92	−10	May 20†	Sept. 30
*Buffalo	16.8	21.2	30.5	41.0	52.7	67.4	70.0	68.8	60.2	53.5	40.2	27.6	45.8	90	−5	Apr. 16	Oct. 29
Canton (a)	8.8	15.3	27.2	39.2	54.6	68.1											
Carmel (a)	17.4	24.6															
Carthage (a)			25.9	[e]38.4													
Constableville	9.2	16.4	25.0	37.8	51.0	64.2	63.6	[e]60.4								May 8†	
Cooperstown (a)	14.2	19.4	28.5	39.8	52.8	66.0	65.4	64.5	54.2	48.0	35.0	24.8	42.8	89	−10	Apr. 26†	Sept.27†
Cortland	16.0	20.4	29.4	41.0	53.9	67.1	67.1	65.9	56.2	49.1	35.3	25.4	43.9	86	−12	May 6†	Oct. 16†
Dunkirk	17.4	22.2	30.9	41.4	51.6	65.9	68.8	66.9	59.3	51.3	39.6			83	−3	Apr. 26†	Oct. 31†
Eden Center	15.4	24.0	32.0	44.0	55.0	68.8	69.6	68.2	60.1	49.1	38.8	24.9	45.8	90	−10	May 28†	Sept. 30
Elmira (a)	18.7	25.5	34.3	46.6	59.4	71.6	73.3	70.7	60.4	53.5				93	−14		
Factoryville (a)	16.6	23.4	32.4	43.9	56.8	69.2	70.6	68.8	58.6	50.8	37.2	28.8	46.4	97	−22	May 20†	Oct. 1
Fleming (a)	16.4	21.6	30.2	41.9	56.4	68.5	70.7	69.2	58.7	52.3	37.6	27.5	46.0	94	−5	Apr. 26†	Sept. 30
Fort Niagara	20.4	25.0	34.4	43.6	53.8	69.0	73.4	71.6	62.1	54.1	41.4	30.4	48.3	97	0		
Friendship	[b]15.0	21.6	29.0	41.7	52.4	65.0	66.1	[f]64.6	[e]55.7	47.1	34.6	27.8	43.4	93	−7	May 20†	Sept. 26
Geneva	18.2	23.0	31.9	43.1	55.2	68.4	70.1	68.7	[e]60.8	51.4	38.9			96	−7	Apr. 26†	Oct. 17†
Glens Falls (a)	[e]12.4	18.1	28.4						54.1						−17		

[1] F. W. Ricord. [2] Prof. G. C. Sonn. [3] Charles V. Meyers. [4] Mrs. G. H. Cook.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
New York—Continued.																	
Gloversville (a)	11.9	18.0	26.9	39.3	54.2	66.6	66.5	66.4	53.6	47.9	33.4	21.7	42.2	94	—13	May 8†	Sept. 26
Hess Road Station							70.3	67.2	58.3	50.4	39.4	28.5		92			Sept. 30
Honeymead Brook (a)	15.6	22.3	30.6	44.0	56.6	66.6	66.4	63.4	56.0	51.1	36.9	27.9	45.3	94	—13	Apr. 26†	Oct. 17
Humphrey (a)	15.8	21.9	30.4	41.6	54.0	66.4	66.0	66.5	57.2	50.2	36.9	27.6	44.7	90	—8	Apr. 26†	Sept. 28
Italy Hill	14.5	[19.3															
Ithaca (a)	17.6	22.6	30.1	41.5	54.9	68.2	69.0	67.2	57.1	50.6	36.5	27.9	45.3	93	—12	Apr. 26†	Oct. 16†
Jamestown (f)	18.0	25.0	32.4	44.8	55.7	69.7	70.7	67.6	59.7	51.6	38.0	30.8	47.0	91	—5		
Lebanon Springs	14.6	20.8	29.2	40.5	54.2	65.3	66.4	67.4	55.0	48.5	35.8	25.1	43.6	90	—13	May 20†	Sept. 27
Le Roy (a)	15.8	19.6	29.3	42.3	55.2	69.5	69.2	67.0	57.3	50.1	37.2	25.5	44.8	92	—7	Apr. 26†	Oct. 26
Lockport	16.6	22.2	32.0	44.5	54.7	69.3	70.9	68.9	59.9	52.0	38.1	25.7	46.2	94	—5	Apr. 26	Oct. 26
Lowville	10.1	16.7	26.0	38.9	52.6	66.9	65.6	65.2	53.1	49.0	33.5	20.8	41.5	94	—20	May 20†	Sept. 27
Lyon Mountain	9.7	15.5	24.4					[63.6	51.0								
Lyons (a)	19.2	23.5	31.3	42.6	56.7	69.6	70.7	68.8	58.3	51.8	38.9	28.5	46.7	92	—2	Apr. 26†	Oct. 17
Madison Barracks	11.7	17.5	27.8	39.8	54.8	69.1	69.1	69.0	58.1	51.2	38.6	22.1	44.1	97	—19		
Malone (a)	7.2	13.2	25.0	37.1	52.6	67.7	66.4	65.0	52.8	49.1	34.0	15.2	40.6	90	—21	May 5†	Sept. 21
Middletown (a)	17.0	23.3	31.7	42.5	[58.0	68.6	71.5	71.4	[68.0	52.5	[39.3	20.3	47.1	94	—6	Apr. 26†	Oct. 30†
Minnewaska (a)	15.6	19.7	27.9	41.5	53.5	64.9	67.5	68.4	54.6	49.2	34.4	26.9	43.7	92	—10	Apr. 27†	Oct. 17†
Mount Morris	18.3	22.3	31.4	43.4	54.8	67.8	69.4	66.8	56.7	[50.6	37.4	27.1	45.5	95	—10	May 8†	Sept. 26†
Newfield Summit	15.0	19.7	28.1	38.5	54.2	67.0	67.2	66.4								Apr. 27†	
New Lisbon (a)	15.2	19.5	27.5	39.1	50.5	63.4	63.0	62.8	52.4	48.6	34.7	24.9	41.8	91	—13	May 20†	Sept. 26
*New York City	23.3	29.6	36.2	47.8	59.0	69.4	74.8	74.4	64.4	57.6	44.2	35.1	51.3	96	1	Apr. 7†	Oct. 30
North Hammond (a)	9.8	15.9	27.9	39.3	54.7	68.4	71.5				37.9	22.6			—20	May 19†	
Number Four	9.1	14.2	23.8	36.7	51.4	64.5	62.6	62.2	50.2	47.1	32.0	19.4	39.4	88	—21	May 29†	Sept. 21
Ogdensburg (a)	8.1	14.8	27.4	38.8	52.9	67.2	67.8	68.0	55.5	50.4	36.6	17.0	42.0	92	—16	Apr. 26	Oct. 17
*Oswego	15.6	19.8	28.9	39.9	52.4	66.3	68.7	67.6	57.2	52.0	38.2	25.4	44.3	92	—6	Apr. 23†	Oct. 17
Oxford	14.3	19.2	29.6	41.8	54.7	69.0	68.5	67.3	55.6	49.3	35.5	28.2	44.2	93	—15	May 26†	Sept. 27†
Palermo (a)	14.4	19.3	28.6	40.6	53.4	68.1	68.2	67.2	55.8	50.7	35.8	23.6	43.8	98	—9	Apr. 26†	Sept. 29
Perry City (a)	15.6	20.8	28.9	40.8	54.1	66.2	66.9	65.6	54.8	48.9	35.0	25.8	43.5	95	—14		
Plattsburg Barracks	8.8	13.8	24.8	37.6	53.6	66.3	67.8	67.3	54.8	49.0	35.2	19.2	41.5	90	—16		
Port Jervis	16.9	23.4	31.7	46.0	57.7	68.2	70.3	70.8	58.3	51.8	37.1	28.7	46.7	93	—12	Apr. 26†	Sept. 27
Potsdam (a)	7.6	12.8	26.2	37.6	52.8	67.6	67.0	66.7	52.6	49.6	34.4	15.8	40.9	89	—19	Apr. 30†	
Poughkeepsie	15.7	23.8	31.8	46.2	58.2	68.5	69.6	70.3	58.9	52.3	39.1	29.1	47.0	98	—19	May 7†	Oct. 11
Quaker Street	12.8	18.5	26.3	39.8											—11		
*Rochester	17.0	21.4	31.2	42.4	56.0	70.6	71.3	68.9	59.4	52.7	39.4	27.4	46.5	97	—6	Apr. 26†	Oct. 30
Rome	13.4	16.7		43.7	59.6	68.9	67.1	68.5	[56.7	51.2	37.0	23.6		93	—19	Apr. 20†	Oct. 17†
Romulus	17.9	22.8	30.8	43.8	56.0	70.0	70.5	70.5	58.6	51.7	38.8	28.3	46.6	96	—5	May 19†	Oct. 17
Rondout	17.5	24.9	33.0	44.2	56.6						38.2	28.1			—7	Apr. 26†	Oct. 30
Setauket (a)	22.8	28.4	34.0	44.2	56.4	65.4	71.5	70.3	61.8	55.3	42.4	35.2	49.0	94	2	Apr. 7†	Nov. 1
South Canisteo (a)	15.1	21.4	29.9	44.0	54.0	64.6	66.4	64.1	54.9	47.8	35.0	27.7	45.7	93	—12	May 19†	Sept. 26
South Kortright	15.2	21.6	28.5	40.7	53.8	65.7	64.9	64.1	53.0	47.4	33.3	26.0	42.8	92	—14	May 29†	Sept. 29
Stillwater (a)						69.4	69.2	68.4	55.6	50.6	38.0	22.8					Oct. 31
Turin	10.1	15.7	24.9	37.0	51.4	64.5	64.1	64.5	52.3	[47.5	32.5	19.9	40.3	89	—20	Apr. 28†	Sept. 30
Utica	15.1	19.3	28.2	41.2	54.8	68.8	68.2	68.3							—15	May 20†	
Varysburg			30.1	41.9	53.8	67.1	67.9	66.8	58.4		38.2	26.4		95		May 8†	Sept. 26
Victor	17.4	21.0	[31.5	42.5	55.4	71.4	71.3								—6	Apr. 26†	
Wappingers Falls			31.9	45.7	60.2	70.5	72.2	71.3	59.7	52.9	39.0	29.5		97		Apr. 26†	Oct. 17
Watertown	12.9	19.1	28.8	40.3		69.6	69.2	68.0							—15		
Watkins (a)	16.5	21.9	31.0	43.5	55.8	68.9	70.8	71.7	63.6		42.9			96	—7	Apr. 26†	Sept. 29
Wedgwood (a)	15.0	19.8	29.7	39.7	53.5	66.6	67.4	66.2	55.8	48.6	34.5	25.6	43.4	96	—9	Apr. 30†	Oct. 17
West Point	19.4	26.6	33.2	47.7	60.2	70.2	75.5	74.3	63.4	[58.3	[40.7	32.6	50.2	99	—8		
Willets Point	21.2	28.6	34.8	46.8	57.0	68.2	73.6	72.2	62.6	55.3	41.7	34.1	49.7	97	—6		
North Carolina.																	
Asheville	27.2	41.4	44.2	57.7	60.3	68.0	73.0	70.4	65.4	55.8	45.4	39.9	54.1	99	—9	Apr. 24	Oct. 15
Auburn (a)												44.7					Oct. 30
Bailey (a)									70.4	59.0	48.6	43.5				Apr. 24	Oct. 16
Bakersville	24.4	40.8	44.9	55.4	59.2	67.6	72.0	67.9	64.6	53.5	42.6	38.3	52.6	93	—17	Apr. 24	Oct. 17
Blowing Rock	[25.0	38.2	41.6	51.5	[54.8	64.4	69.2	66.6	61.1	[54.2	[41.3	37.2	50.5	86	—7	May 11†	Oct. 16†
Chapel Hill	30.0	42.2	48.0	62.0	67.4	76.0	82.2	77.6	70.7	59.2	48.2	43.4	58.9	104	—1	Mar. 30	Oct. 29
*Charlotte	32.6	44.6	49.6	63.0	66.8	74.2	80.6	75.3	71.2	60.4	48.9	45.4	59.4	100	5	Mar. 30†	Oct. 31
Columbus	29.9	41.4	43.0	55.8	57.8	65.8	72.4	67.8	65.0	54.7	44.8	44.5	53.6	88	0	Mar. 28	Oct. 29
Douglas	23.4	38.7	46.4	55.8	65.9	74.6	80.2	75.8	69.6	53.4				103	—8		Oct. 16
Experiment farm	30.6	44.5	48.8	63.0	66.9	74.8	80.6	[76.7	71.0	[60.3	[49.2	[45.4	59.3	99	2	Mar. 31	Oct. 30
Falkland (a)									72.0	62.3	52.2	48.5					Oct. 30
Flat Rock	[26.7	42.9		[58.0	62.4	68.1	[73.5	[69.2	65.0	53.4	42.9	39.6		93	—10	Apr. 24	Oct. 16
*Goldsboro					69.2	75.8	80.7	77.2	72.9	62.3	51.8						Oct. 17
*Greensboro					68.7	76.5	82.6	76.9	73.1	63.1	48.4						
*Hatteras	36.5	47.6	48.0	59.2	65.7	73.3	78.3	76.9	74.0	65.0	55.8	49.8	60.8	88	16	Jan. 26	Nov. 25
Henderson (a)						74.1	79.0	74.6	68.8	58.5	47.1	42.6		101			Oct. 30
Highlands (a)	24.4	39.0	40.7	54.5	56.1	63.3	68.1	64.3	60.4	50.5	40.6	36.6	49.8	85	—7	May 19	Oct. 16
Horse Cove (a)	28.9	42.1	44.2	57.1	60.2	66.1	74.4	68.9	65.4	55.0	44.7	41.3	54.1	91	—3	Apr. 24	Oct. 16
*Kittyhawk	32.1	44.1	44.6	57.6	65.4	72.4	78.6	71.2	72.7	62.9	53.0	47.6	58.9	96	9	Mar. 27†	Nov. 17
Lenoir (a)	27.3	41.9	46.8	59.6	63.6	70.5	75.7	72.1	66.6	56.6	44.0	39.9	56.4	92	—15	Apr. 24	Oct. 29
Littleton	27.6	41.4	44.4	60.0	63.4	74.3	80.0	76.8	69.6	57.6	46.8	42.8	57.1	100	—4	Apr. 23	Oct. 29
Louisburg (a)	29.4	43.8	47.6	61.7	65.7	74.4	79.6	75.2	69.2	58.4	48.0	42.7	58.0	95	—5	Mar. 30	Oct. 30
*Lumberton					69.6	76.8	81.3	78.4	74.0	63.4	52.4						
Lynn (b)	28.9	43.4	46.6	60.4	63.8	71.8	75.6	71.3	66.6	56.2	43.5	[38.6	55.6	94			Oct. 29
Marion	29.7	43.8	47.0	59.5		71.2		72.2	[68.3	57.6	45.7	39.6			—10	Apr. 24	Oct. 16
May (a)										61.2	51.2	46.8					Oct. 30
Mocksville (a)	30.3	43.5				73.4	80.4	75.2	69.8	59.3	48.8	45.4		97	2		Oct. 17
Morganton (a)	26.4	43.4	49.4	61.4	64.8	71.3	78.4	73.2	67.4	57.5	45.4	41.9	58.7	94	—1		Oct. 30
Mount Airy	28.2	49.3	45.1	56.6	62.4	71.0	[76.2	72.8	66.8	56.4	[44.1	[39.6	54.8	95	—15	Apr. 24	Oct. 16
Mount Pleasant (a)	29.9	43.5	49.2	61.8	64.9	72.4	78.0	75.0	70.0	58.8	47.3	44.1	58.0	98	—4	Mar. 30	Oct. 30
*Newbern	32.0	45.7	48.4	60.8	64.6	72.8	77.0	74.4	70.4	60.4	51.3	46.4	58.7	92	6	Mar. 29	Nov. 16
Oak Ridge	29.2	42.0	47.2	59.2	64.4	72.5	78.9	74.6	68.4	56.6	45.8	41.7	56.7	96	—5	Apr. 24	Oct. 16
Pittsboro	28.6	41.0	46.6	59.6	63.6	71.6	77.0	74.0	68.7	58.9	45.8	41.4	56.3	95	—5	Mar. 30	Oct. 30
*Raleigh	30.8	43.8	48.2	62.2	66.1	74.2	79.8	76.6	70.6	59.6	48.8	44.6	58.7	100	2	Mar. 30	Oct. 30

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
North Carolina—Cont'd.																	
Raleigh (a)[1]	32.4	46.4	50.8	63.7	.....	75.7	81.0	77.4	71.5	61.0	50.4	[g]44.8	.....	102	3	Mar. 30	Oct. 30
Rockingham	35.7	51.8	.....	68.1	70.0	77.1	82.1	77.2	71.5	59.6	48.2	44.3	.....	102	—2	.....	Oct. 31
Roxboro	29.7	41.4	47.6	60.1	65.6	74.8	79.8	75.6	[i]68.4	57.0	46.8	43.4	57.5	100	0	Apr. 24	Oct. 30
Ruthford College (a)	.....	.....	.....	.....	.....	.....	.....	.....	.....	52.4	42.7	37.1	.....	.....	.....	.....	Oct. 31
Salisbury (a)	33.0	42.3	49.5	62.7	68.0	74.7	82.0	76.7	71.8	60.0	48.1	44.8	59.2	96	6	Mar. 30	Oct. 30
Saxon	26.8	40.6	46.6	58.8	62.2	71.9	77.6	72.8	67.2	56.1	44.6	41.0	55.5	100	—8	.....	Oct. 29
Shelby	.....	[e]42.2	48.9	62.3	66.4	74.6	79.5	75.3	69.9	58.2	46.3	41.4	.....	96	.....	Mar. 30	Oct. 30
Sloan	.....	.....	50.8	64.8	68.0	75.2	79.8	76.0	73.1	62.5	53.2	49.4	.....	96	.....	Mar. 20	Oct. 31
Smithfield	29.9	45.5	49.7	63.6	66.7	74.6	80.0	76.0	71.0	60.2	49.2	44.8	59.3	97	—5	Mar. 30	Oct. 30
Soapstone Mount.	28.7	42.2	48.0	59.4	64.4	72.8	78.6	74.6	69.0	58.2	47.1	42.7	57.1	99	—9	Apr. 22	Oct. 17
Southern Pines	33.7	43.2	49.6	62.7	65.4	73.6	80.2	[f]75.2	74.9	61.0	50.3	45.9	59.6	102	6	Mar. 30	Oct. 30
*Southport	38.9	51.3	51.6	63.0	68.2	74.9	79.2	76.9	74.6	64.4	54.4	49.6	62.2	92	11	Mar. 19	Nov. 16
Tarboro	31.3	45.8	47.4	62.6	67.8	[f]75.4	81.2	77.6	72.2	61.1	50.4	46.2	59.9	102	—1	.....	Nov. 1
Washington	.....	.....	.....	.....	.....	75.8	81.0	78.5	78.5	[d]63.4	53.7	49.4	.....	101	.....	.....	.....
*Weldon	28.2	43.8	46.8	61.2	67.2	75.3	79.6	76.4	70.6	59.6	48.5	44.0	58.4	100	—9	Mar. 30	Oct. 30
Willeyton	29.8	44.6	47.1	61.6	66.2	73.8	78.0	75.6	69.9	60.0	49.0	45.0	58.4	97	—3	Mar. 30	Oct. 31
*Wilmington	39.0	52.3	53.6	65.8	69.2	75.6	80.6	77.6	74.9	64.4	55.2	51.1	63.3	97	13	Mar. 20	Nov. 17
North Dakota.																	
Ashley	3.4	3.6	16.0	36.0	50.2	68.2	68.9	65.4	57.0	40.2	23.5	6.0	36.5	102	—46	.....	Sept. 16
Berlin (a)	1.8	1.0	17.0	35.1	51.5	68.3	69.8	66.4	57.6	40.5	22.6	7.1	40.7	102	—44	.....	Sept. 16
*Bismarck	5.5	4.4	16.9	36.5	51.6	66.2	70.2	68.9	59.7	42.2	26.1	8.6	38.1	103	—41	May 27	Sept. 16
Bottineau	—3.0	—3.4	9.4	31.2	52.1	65.9	[f]67.8	67.6	56.0	37.2	17.3	1.3	33.0	106	—50	.....	.....
Cannon Ball	.....	.....	.....	.....	.....	70.2	72.8	70.3	.....	.....	.....	.....	.....	108	.....	.....	.....
Church's Ferry	—2.4	—4.3	10.4	33.3	52.3	66.0	67.8	65.8	56.4	38.8	19.0	1.0	33.7	103	—43	.....	.....
Dawson	.....	.....	.....	36.1	49.4	65.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sept. 23
Dickinson	9.2	5.2	16.5	39.3	46.4	62.8	72.3	[e]68.2	58.3	[e]41.2	23.5	15.4	38.2	108	—47	.....	Sept. 23
Dunseith	.....	.....	.....	.....	.....	67.0	68.0	66.6	54.0	.....	.....	.....	.....	103	.....	.....	.....
Ellendale	5.4	5.7	19.5	38.0	52.6	71.8	70.0	65.6	55.6	39.7	[e]25.4	10.0	38.3	101	—41	.....	.....
Fargo (f)	—3.0	—1.4	10.9	32.6	51.8	69.8	68.1	65.4	56.7	41.1	20.8	[a]1.7	34.5	101	—41	.....	.....
Forman	7.3	4.0	17.5	36.6	54.9	70.1	70.4	66.7	58.9	43.8	24.3	6.4	38.3	102	—53	.....	Sept. 16
Fort Berthold	.....	.....	.....	.....	.....	.....	.....	76.1	60.2	39.5	22.7	9.9	.....	.....	.....	.....	.....
*Fort Buford [2]	6.8	1.6	15.3	36.5	53.0	63.8	70.3	68.4	57.8	40.8	23.3	7.6	37.1	105	—40	May 25	Sept. 23
Fort Stevenson	5.0	1.9	12.2	35.6	52.4	65.8	71.0	66.3	55.2	41.0	22.8	6.9	32.4	101	—48	.....	Sept. 17
Fort Yates	10.2	7.8	23.2	40.2	52.7	63.3	73.5	70.0	60.0	43.2	27.9	12.1	40.8	105	—31	.....	Sept. 26
Gallatin	.....	.....	.....	.....	.....	68.6	68.2	65.5	58.0	39.2	20.5	0.4	.....	104	—52	.....	.....
Grafton	—4.6	—4.5	10.6	30.2	50.8	66.2	67.9	.....	.....	.....	20.2	—2.6	.....	.....	—44	.....	.....
Grand Rapids (a)	2.0	2.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jamestown	(2.0)	—0.4	15.7	35.5	52.4	69.1	70.2	67.8	58.5	42.7	26.0	6.8	(37.2)	106	—40	.....	Sept. 16
Keiso	—1.2	—2.6	10.9	32.1	52.2	68.3	68.9	66.2	57.8	41.7	23.3	2.7	34.9	103	—44	.....	.....
Lakota	1.5	—3.2	12.8	32.9	54.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	—50	.....	.....
Larimore	.....	.....	.....	.....	.....	69.5	69.4	64.7	56.0	40.0	[i]17.2	—0.6	.....	100	.....	.....	Sept. 23
Mayville	.....	.....	13.8	30.6	49.8	68.9	68.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McKinney	.....	.....	.....	.....	.....	.....	.....	.....	56.0	38.4	19.7	4.2	.....	.....	.....	.....	.....
Medora	15.7	10.8	[e]22.7	39.3	55.2	67.2	[f]74.4	73.2	.....	.....	.....	.....	.....	112	—47	.....	.....
Milton	—4.2	—5.4	[a]13.1	[d]31.7	[a]54.1	[e]65.2	[k]66.6	65.6	[e]55.1	[i]35.6	[e]17.3	[j]—4.1	32.6	98	—48	.....	Sept. 17
Minto	[a]—4.3	—3.3	11.0	30.6	50.8	69.1	69.2	65.4	[a]55.6	[j]39.6	23.2	—0.6	33.9	101	—43	.....	Sept. 17
Napoleon (a)	1.4	2.1	14.9	33.5	50.5	67.4	68.6	68.0	58.1	41.2	24.5	6.6	36.4	104	—44	.....	.....
New Salem	.....	.....	.....	.....	.....	66.3	.....	68.9	59.8	42.8	26.4	13.6	.....	.....	.....	.....	.....
Oakdale	.....	.....	.....	[h]36.9	52.4	64.2	69.6	67.8	58.7	41.9	24.9	16.0	.....	101	.....	.....	Sept. 18
Portal	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.0	.....	.....	.....	.....	.....
Power (a)	—0.4	0.6	14.4	39.4	53.0	68.3	71.4	67.8	61.4	41.3	23.3	5.8	36.7	102	—48	.....	.....
Reynolds	[i]—1.8	—5.9	10.4	31.4	.....	.....	.....	64.0	[h]57.3	.....	.....	.....	.....	.....	—45	.....	.....
St. Johns	.....	.....	.....	[e]31.0	50.8	63.1	67.4	64.6	55.0	36.0	17.9	1.4	.....	98	.....	.....	.....
Sheyenne	.....	.....	.....	.....	.....	.....	[a]74.4	.....	.....	[e]40.8	25.5	4.0	.....	.....	.....	.....	.....
Sykeston	2.4	1.0	15.6	39.8	52.8	66.8	[f]70.9	.....	.....	.....	20.7	1.8	.....	.....	—47	.....	.....
University	—3.9	—3.1	7.7	30.9	51.8	67.3	69.1	[e]62.1	55.4	[e]38.4	21.0	1.1	33.2	99	—44	.....	.....
Valley City	.....	.....	.....	34.2	51.2	66.4	.....	.....	.....	.....	[d]24.6	3.3	.....	.....	.....	.....	.....
Wahpeton	—0.9	1.4	16.1	37.0	54.7	70.2	69.6	66.3	58.2	45.2	26.5	5.0	37.2	101	—44	.....	.....
Washburn	.....	.....	.....	.....	.....	.....	.....	[m]70.7	61.4	45.8	25.8	8.1	.....	.....	.....	.....	Sept. 17
Wild Rice (b)	—4.2	—2.3	11.2	33.1	52.3	70.8	71.4	64.8	54.6	38.8	20.2	2.1	34.4	99	—39	.....	Sept. 18
Williamsport	.....	.....	.....	.....	.....	67.6	70.2	68.8	58.6	[d]42.2	23.9	7.5	.....	103	.....	.....	Sept. 17
Willow City	—3.4	—4.4	8.7	33.0	51.1	62.4	(68.0)	66.0	57.1	39.1	[d]17.4	1.2	(33.0)	104	—54	.....	.....
Woodbridge	—6.0	—7.2	9.7	28.9	49.3	61.5	63.8	62.0	53.6	37.2	16.8	—3.6	30.5	97	—50	.....	.....
Yule	15.8	7.8	21.3	40.0	53.9	65.2	71.4	.....	.....	.....	.....	.....	.....	.....	—47	.....	.....
Ohio.																	
Akron (a)	18.7	27.4	36.6	48.4	56.5	70.7	74.2	70.0	63.5	53.4	39.1	30.8	49.1	95	—8	Apr. 16	Sept. 26
Annapolis	.....	26.9	37.0	47.9	56.9	70.8	73.4	70.4	64.2	53.2	38.5	34.5	.....	98	.....	May 7	Sept. 27
Ashland (a)	16.6	26.6	36.0	49.4	57.2	70.9	73.9	69.9	.....	.....	38.0	31.2	.....	92	—9	.....	.....
Athens (a)	19.0	33.0	40.2	53.7	59.5	70.5	74.5	70.2	.....	54.3	39.6	35.6	.....	95	—22	Apr. 13	Oct. 16
Auburn	16.0	26.1	34.1	46.0	53.8	66.4	68.4	65.6	61.4	49.7	36.9	27.6	46.0	94	—14	May 19	Sept. 26
Bangorville (a)	16.7	26.9	36.1	47.9	56.0	69.0	72.5	69.7	64.1	53.4	38.0	30.2	48.4	94	—14	Apr. 23	Sept. 29
Bellevue (a)	15.5	25.0	35.7	46.7	55.8	69.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bement (a)	14.6	23.5	33.1	44.4	52.8	67.2	.....	66.7	59.8	48.8	34.7	28.1	.....	.....	.....	.....	Sept. 26
Benton Ridge	[a]19.2	28.8	37.0	49.2	56.8	70.7	75.3	72.3	64.0	53.9	38.1	30.8	49.7	100	[a]—15	Apr. 23	Sept. 26
Bethany	.....	31.3	39.2	50.4	59.8	71.0	76.6	72.4	67.0	52.0	37.2	33.0	.....	97	.....	Apr. 16	Oct. 16
Big Prairie	12.6	24.2	32.4	49.5	57.2	68.6	72.0	68.3	62.6	53.1	38.0	30.9	47.4	94	—9	Apr. 23	Sept. 29
Binola	.....	.....	.....	.....	.....	.....	78.0	72.2	64.5	54.6	37.5	.....	.....	.....	.....	.....	Sept. 26
Bissells	.....	25.7	34.4	46.9	55.5	69.4	72.0	69.4	62.2	53.9	37.9	31.4	.....	96	.....	Apr. 25	Sept. 29
Bladensburg	.....	.....	.....	.....	.....	.....	.....	.....	64.2	52.4	36.7	31.8	.....	.....	.....	.....	Sept. 29
Bloom Center	[i]21.0	31.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bloomingburg (a)	.....	29.9	38.8	51.0	58.6	70.1	75.1	69.9	65.8	55.2	38.2	33.4	.....	93	.....	Apr. 23	Oct. 16
Bowling Green (a)	.....	.....	.....	.....	.....	.....	.....	68.6	62.5	50.8	35.8	28.2	.....	.....	.....	.....	Sept. 26
Bucyrus (a)	.....	.....	.....	.....	56.8	69.8	73.5	70.1	64.4	51.8	37.2	31.3	.....	.....	.....	.....	Sept. 26
Cambridge	17.8	30.7	37.7	50.7	57.3	69.0	72.8	69.2	63.4	52.7	37.9	33.1	49.4	93	—17	Apr. 18	Sept. 28
Campbellstown (a)	16.6	29.2	35.0	46.8	57.0	66.8	77.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] T. C. Harris.

[2] Station moved to Williston, N. Dak., Nov. 23, 1893.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Ohio—Continued.																	
Camp Denison (a)	.....	33.6	42.4	52.1	60.5	°70.5	76.5	69.8	68.1	51.1	.....	.....	.....	.....	.....	Apr. 16	Oct. 16
Canal Dover (a)	.....	.....	.....	.....	.....	.....	70.4	68.7	60.1	49.2	36.9	31.4	.....	.....	.....	.....	Sept. 29
Canton (a)	18.5	26.4	35.4	49.6	57.1	.....	73.8	69.2	63.8	52.6	38.7	32.2	.....	96	—8	Apr. 22	Sept. 29
Cardington	.....	.....	36.7	.....	57.0	.....	74.0	.....	.....	50.8	35.5	[1]25.3	.....	.....	.....	Apr. 25	Sept. 25
Carrollton	18.3	29.5	37.9	49.4	57.3	69.9	72.4	70.2	64.4	54.0	39.1	33.5	49.7	98	—11	May 20	Sept. 26
Celina (a)	17.6	30.4	41.0	52.1	60.6	71.2	75.5	72.8	[1]65.7	55.7	43.2	35.5	51.8	95	—12	Apr. 15	Sept. 26
Cherry Fork	.....	35.0	40.1	51.7	58.9	70.0	76.6	73.4	68.4	52.6	40.7	35.5	.....	100	.....	Apr. 24	Sept. 29
Chicago	.....	.....	.....	.....	57.1	70.6	74.9	70.6	63.7	.....	35.9	27.0	.....	98	.....	May 7	Sept. 29
*Cincinnati	21.2	34.0	42.0	53.8	61.2	73.2	78.6	74.8	70.0	56.4	42.4	36.4	53.7	95	—11	Apr. 24	Oct. 16
Clarksville (a)	19.0	31.4	39.2	51.8	59.6	71.0	76.3	72.3	67.0	53.4	39.7	34.5	51.2	96	—16	Apr. 22	Oct. 16
*Cleveland	17.6	26.3	34.6	46.0	54.8	69.3	72.6	69.0	63.3	53.4	38.9	30.9	48.1	94	—6	Apr. 21	Oct. 17
Cleveland (a)[1]	18.6	27.0	35.9	47.4	55.6	70.0	71.9	68.4	62.4	52.8	39.3	32.5	48.5	92	—6	Apr. 22	Oct. 17
Coalton	24.0	35.5	42.0	56.0	60.5	70.1	75.1	71.8	67.5	55.0	40.1	36.4	52.8	100	—12	Apr. 24	Sept. 29
*Columbus	18.8	30.8	39.5	51.6	59.4	71.4	76.4	71.8	66.7	55.1	40.0	33.0	51.2	95	—12	Apr. 16	Sept. 29
Dayton (a)	21.0	32.3	42.9	52.7	61.6	72.6	78.2	73.8	68.2	54.4	40.9	35.6	52.8	97	—13	Apr. 16	Oct. 16
Defiance	.....	.....	.....	48.2	57.9	70.0	73.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Demos	19.4	30.3	38.5	.....	[2]59.6	70.0	73.7	70.4	64.4	55.7	40.6	35.5	.....	94	—9	.....	Sept. 29
Dupont (a)	.....	.....	.....	.....	58.3	71.1	74.3	70.3	64.1	54.2	39.2	32.4	.....	.....	.....	.....	Sept. 25
Ellsworth	.....	.....	.....	47.8	55.9	68.0	70.4	67.4	62.8	52.6	37.6	30.9	.....	.....	.....	May 5	Sept. 26
Elyria	17.3	25.9	37.0	48.8	56.3	70.4	75.0	69.8	64.8	52.9	39.0	31.7	49.1	98	—8	Apr. 15	Oct. 17
Findlay (a)	15.4	26.2	35.6	47.8	57.4	69.6	73.8	69.7	63.7	52.2	37.6	31.6	48.4	95	—14	Apr. 23	Sept. 26
Fostoria (a)	17.3	26.2	38.4	47.8	57.1	73.1	75.2	72.7	66.1	54.5	.....	31.3	.....	94	—14	Apr. 22	Sept. 26
Frankfort	.....	34.7	40.7	51.2	59.4	69.4	73.2	72.6	65.8	53.6	41.7	37.5	.....	94	.....	May 24	Sept. 25
Garrettsville (a)	15.4	24.6	33.7	46.3	53.9	66.1	69.1	65.5	60.1	50.2	35.8	29.0	45.8	95	—15	May 19	Sept. 26
Georgetown (a)	20.6	34.2	42.4	54.2	65.1	72.4	77.7	73.5	.....	.....	.....	.....	.....	.....	.....	Apr. 24	.....
Granville (a)	16.8	29.9	38.4	50.0	57.7	68.9	73.8	.....	63.2	52.7	37.1	31.6	.....	96	—17	Apr. 23	Sept. 26
Gratiot	18.4	30.4	38.8	51.1	58.6	70.0	73.6	69.6	65.4	54.5	39.6	33.4	50.3	94	—17	Apr. 24	Sept. 27
Greenfield	20.3	[3]34.0	.....	51.6	[4]60.2	70.0	76.6	71.6	65.8	53.0	43.0	34.9	.....	102	—15	Apr. 24	Oct. 30
Green Hill	.....	25.4	34.5	46.7	54.6	68.8	70.6	68.2	62.5	52.5	36.8	31.0	.....	97	.....	May 18	Sept. 26
Greenville (a)	17.6	28.4	37.7	49.8	58.0	70.0	75.2	70.1	64.7	51.8	38.5	32.1	49.5	91	—17	Apr. 16	Sept. 26
Guysville	.....	.....	.....	.....	.....	71.5	75.8	71.4	66.1	53.0	39.5	34.2	.....	96	.....	.....	Sept. 23
Hackney	.....	34.1	39.6	52.1	59.2	71.8	74.5	71.4	65.2	55.4	39.5	33.5	.....	95	.....	Apr. 16	Sept. 28
Hanging Rock (a)	21.7	36.2	41.9	56.1	60.3	69.4	73.4	70.1	65.2	53.2	41.1	37.2	50.5	96	—20	Apr. 16	Oct. 17
Harbor (a)	18.1	25.2	33.9	44.5	54.6	69.0	72.4	68.8	61.9	53.0	39.7	31.8	47.8	91	—8	Apr. 22	Oct. 31
Hedges	[3]3.8	.....	.....	.....	.....	67.1	.....	68.2	63.4	.....	.....	28.0	.....	.....	.....	.....	Sept. 26
Hillhouse	.....	25.1	34.5	45.9	54.5	68.9	71.7	69.0	62.4	53.0	38.2	30.1	.....	97	.....	May 19	Sept. 26
Hillsboro	.....	34.1	41.2	52.0	59.8	71.2	76.0	72.0	68.2	54.6	40.5	35.8	.....	98	.....	.....	Sept. 29
Hiram (a)	16.0	24.0	33.7	46.6	54.5	68.5	71.8	68.4	60.9	51.1	37.1	29.6	46.9	94	—11	Apr. 24	Sept. 26
Jacksonboro (a)	17.7	30.2	38.9	50.4	58.0	70.1	76.1	72.1	66.8	53.8	38.6	31.9	50.8	93	—17	Apr. 23	Oct. 16
Kenton	16.8	28.1	36.5	49.9	57.4	70.8	74.0	71.5	65.8	53.8	40.3	31.8	49.8	98	—16	Apr. 23	Sept. 26
Kilbourne	.....	.....	.....	.....	.....	68.8	73.0	67.9	64.3	53.6	38.8	32.6	.....	94	.....	.....	Sept. 26
Killbuck	.....	.....	.....	.....	58.0	71.2	73.0	69.6	65.1	53.0	37.0	31.3	.....	97	.....	Apr. 23	Sept. 29
Leipsic	18.2	29.8	40.3	49.6	59.1	74.8	76.4	71.8	63.8	53.5	38.2	.....	.....	100	—16	Apr. 23	Sept. 24
Levering	.....	.....	.....	.....	55.2	67.4	71.0	67.4	62.8	50.8	37.3	30.4	.....	94	.....	Apr. 23	Sept. 26
Logan (a)	19.9	34.0	42.5	54.8	60.9	71.6	75.9	70.4	63.9	53.0	41.5	35.5	52.5	98	—18	Apr. 29	Sept. 26
Lordstown (a)	16.6	25.2	34.3	47.0	55.8	68.6	70.7	66.4	60.5	51.0	36.8	30.9	46.8	94	—9	May 19	Sept. 29
Lowell	.....	.....	40.7	53.3	60.9	72.8	76.0	72.3	66.0	54.9	39.3	36.4	.....	101	.....	Apr. 17	Sept. 29
McArthur	19.1	35.5	42.4	53.6	59.1	70.8	75.4	72.0	.....	.....	.....	.....	.....	.....	.....	May 5	.....
McConnelsville (a)	19.3	33.3	38.5	51.9	59.9	71.2	74.7	70.1	65.3	56.2	41.4	34.3	51.2	96	—17	Apr. 16	Sept. 29
McLuney	17.9	32.3	39.3	52.7	58.7	71.2	75.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marietta	23.0	36.4	43.1	55.5	61.1	72.0	76.2	72.1	67.4	55.1	42.7	38.1	53.6	°94	—8	Mar. 30	Oct. 31
Marion (a)	17.1	27.3	36.9	48.9	57.0	69.2	72.9	68.7	63.3	52.1	37.6	30.4	48.4	97	—17	Apr. 23	Sept. 26
Milfordton (a)	[1]7.3	29.0	.....	.....	57.3	71.0	74.1	71.2	66.2	52.9	.....	30.4	.....	97	—8	Apr. 16	Sept. 27
Milligan	.....	.....	.....	.....	.....	.....	.....	71.0	65.0	53.3	39.0	34.4	.....	.....	.....	Apr. 18	Sept. 27
Millport	.....	28.0	36.6	48.2	55.2	68.3	71.6	68.0	62.0	52.3	38.5	.....	.....	95	.....	May 27	Sept. 26
Montpelier (a)	13.5	22.0	34.3	45.8	56.2	70.1	73.7	70.0	63.0	50.7	35.6	27.9	47.0	97	—15	Apr. 23	Sept. 26
Mountville	.....	.....	.....	.....	56.2	72.0	72.6	70.4	65.8	55.6	39.8	36.4	.....	100	.....	.....	Sept. 29
Napoleon (a)	.....	.....	.....	46.4	[5]55.0	.....	.....	.....	64.7	53.5	38.7	29.4	.....	.....	.....	Apr. 23	Sept. 26
New Alexandria (a)	19.7	30.1	38.4	50.7	58.3	70.8	74.5	71.6	65.1	55.1	39.8	33.0	50.5	95	—9	Apr. 23	Sept. 29
New Berlin	.....	.....	.....	.....	57.3	.....	80.6	77.2	70.3	.....	37.3	30.1	.....	.....	.....	Apr. 16	Sept. 26
New Comerstown (a)	18.1	29.9	38.0	50.2	56.8	68.7	72.1	68.5	62.4	51.7	38.1	33.0	48.9	96	—18	Apr. 22	Sept. 26
New Holland	17.4	30.3	38.4	51.8	58.8	71.0	75.8	70.7	66.8	53.5	39.4	33.8	50.6	100	—18	Apr. 23	Sept. 29
New Paris (a)	.....	.....	.....	.....	.....	.....	.....	.....	.....	52.3	35.4	32.2	.....	.....	.....	May 19	Oct. 16
North Lewisburg (a)	18.8	29.6	38.9	50.6	60.1	72.3	77.4	72.0	66.8	53.9	39.4	32.7	51.0	100	—14	Apr. 23	Sept. 26
North Royalton	.....	.....	.....	45.6	54.3	69.3	71.4	69.2	62.4	52.9	37.1	28.6	.....	98	.....	Apr. 24	Sept. 26
Northwood (a)	.....	.....	.....	48.9	57.8	70.1	75.8	71.7	66.3	54.8	39.1	32.2	.....	98	.....	Apr. 23	Sept. 26
Oberlin (a)	18.4	26.1	36.2	46.9	55.3	69.8	73.4	69.5	63.7	52.4	39.0	30.9	48.4	96	—12	Apr. 22	Sept. 26
Ohio State University (a)	18.3	30.1	38.9	51.2	58.7	70.8	75.2	70.7	65.4	53.7	39.3	33.3	50.5	96	—17	Apr. 22	Sept. 26
Orangeville	15.9	25.5	35.1	47.8	55.1	68.6	70.8	67.6	.....	.....	36.9	29.7	.....	.....	—18	May 19	Oct. 17
Pataskala	17.6	30.4	38.9	50.8	57.5	70.4	74.9	70.3	65.6	53.5	38.2	32.1	50.0	97	—15	Apr. 23	Sept. 29
Piqua (a)	14.0	27.3	40.0	.....	.....	.....	77.1	68.6	64.2	.....	.....	.....	.....	.....	.....	.....	.....
Plattsburg	15.4	27.6	37.3	50.3	58.2	.....	.....	°69.6	64.2	53.1	38.7	32.6	.....	.....	—20	May 19	Sept. 26
Pomeroy (a)	19.8	34.9	40.7	55.2	61.9	71.7	76.2	72.2	66.8	55.0	40.8	35.4	52.6	100	—16	Apr. 24	Oct. 17
Portsmouth	23.0	37.0	44.0	55.9	61.5	71.5	76.5	71.0	67.5	53.4	41.7	38.2	53.4	100	—11	Apr. 24	Oct. 19
Ridge	.....	.....	.....	.....	58.2	70.5	74.2	71.0	64.7	54.2	38.6	32.7	.....	97	.....	.....	Sept. 27
Ridgeville Corners (a)	15.4	24.7	.....	46.7	57.0	68.9	72.8	69.6	65.0	52.5	38.3	29.0	.....	95	—12	Apr. 11	Sept. 26
Ripley	.....	.....	.....	.....	.....	.....	.....	.....	68.8	55.4	42.4	36.9	.....	.....	.....	.....	Oct. 15
Rittman	.....	.....	36.6	47.5	.....	[6]68.4	71.8	68.2	62.6	52.7	38.3	29.9	.....	94	.....	Apr. 24	Sept. 26
*Sandusky	16.8	26.1	35.4	46.8	55.7	70.6	74.6	71.1	65.0	53.8	39.7	30.7	48.9	94	—9	Apr. 16	Oct. 26
Sharon Center	.....	.....	37.0	51.3	60.9	.....	81.6	.....	.....	58.0	.....	.....	.....	.....	.....	Apr. 15	Oct. 20
Shenandoah	.....	.....	.....	.....	56.0	70.0	73.2	69.9	64.0	54.6	38.2	30.7	.....	97	.....	Apr. 22	Sept. 26
Springboro (a)	21.4	34.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Spring Valley	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43.3	32.5	.....	.....	.....	.....	.....
Sylvania (a)	.....	.....	36.3	46.8	56.6	75.7	74.8	69.5	62.3	51.6	37.6	28.9	.....	96	.....	May 7	Sept. 26
Thurman	22.6	33.3	42.8	55.4	62.2	72.1	78.2	73.8	68.4	55.9	44.7	38.2	54.0	101	—18	Apr. 24	Oct. 16
Tiffin (a)	18.3	27.2	36.8	48.5	57.5	.....	.....	71.1	64.3	53.1	39.9	31.2	.....	.....	—9	Apr. 16	Sept. 26
*Toledo	16.0	24.5	35.4	46.4	56.5	70.7	74.3	70.4	63.9	53.4	39.0	29.0	48.3	93	—10	Apr. 23	Sept. 26

[1] G. A. Hyde.

MONTHLY AND ANNUAL MEAN TEMPERATURE ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Ohio—Continued.																	
Tyrone	.....	29.7	38.2	51.1	58.1	73.0	76.6	73.5	.....	.....	.....	.....	.....	98	.....	.....	.....
Upper Sandusky (*a*)	17.9	27.9	38.2	49.1	58.0	70.7	74.9	70.7	65.4	55.5	39.6	32.0	50.0	93	−15	Apr. 15	Sept. 26
Vanceburg	.....	.....	.....	.....	.....	.....	.....	.....	71.3	62.7	42.7	37.8	.....	.....	.....	.....	Oct. 16
Van Wert	14.6	24.0	35.6	46.2	55.7	67.2	72.7	70.7	64.4	52.7	37.0	30.2	47.6	97	−24	Apr. 23	Sept. 26
Vermilion	.....	.....	.....	.....	.....	.....	.....	.....	63.4	53.3	38.4	30.7	.....	.....	.....	Apr. 15	Sept. 26
Vickery (*a*)	.....	.....	.....	.....	.....	.....	.....	[m]68.6	63.7	52.4	38.1	30.5	.....	.....	.....	.....	Sept. 26
Warren	16.6	26.0	35.4	47.0	55.5	69.5	71.3	69.1	61.7	52.8	38.2	31.1	47.8	98	−10	Apr. 24	Sept. 26
Wauseon (*a*)	13.8	22.7	35.2	46.0	56.4	70.6	73.2	[f]69.4	62.9	51.2	36.5	28.2	47.2	97	−15	Apr. 23	Sept. 26
Waverly	20.7	[e]34.4	43.9	54.4	64.2	72.7	77.4	72.7	67.4	53.7	40.7	36.2	52.9	99	−17	Apr. 24	Oct. 16
Westerville (*a*)	19.0	29.8	38.9	51.1	58.0	69.8	74.0	68.3	64.0	[d]50.6	39.7	33.5	49.8	94	−17	Apr. 16	Sept. 29
West Milton (*f*)	.....	31.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Weymouth	14.9	25.6	34.9	47.1	55.5	68.7	71.6	68.1	61.9	53.5	38.1	29.9	47.5	96	−17	May 7	Sept. 26
Wheeler (*b*)	17.4	23.8	33.4	45.2	54.4	70.8	73.6	69.6	62.6	51.8	37.9	30.6	47.1	.....	.....	.....	.....
Wooster (*a*)	16.7	27.6	37.7	50.1	57.6	71.2	74.3	70.3	64.2	52.0	37.7	30.9	49.2	95	−9	Apr. 22	Sept. 29
Youngstown (*a*)	17.5	26.7	34.3	47.8	57.6	71.4	73.6	69.2	63.3	50.6	38.1	30.9	48.4	97	−12	May 7	Sept. 28
Oklahoma.																	
Anadarko	38.8	38.5	52.5	66.4	68.2	79.3	84.8	76.7	75.4	63.0	46.4	45.3	61.3	106	−6	Apr. 20	Oct. 13
Arapaho	.....	.....	.....	.....	.....	.....	.....	75.6	74.6	.....	.....	.....	.....	.....	.....	.....	.....
Buffalo	.....	.....	.....	.....	.....	79.2	79.6	75.0	73.9	62.1	.....	.....	.....	.....	.....	.....	.....
Burnett	36.8	36.4	50.4	64.6	68.6	77.4	81.8	75.8	74.6	61.6	46.3	45.2	60.0	101	−7	Apr. 15	Oct. 15
Cloud Chief	.....	.....	.....	.....	.....	[f]79.4	82.4	76.8	75.0	57.2	.....	.....	.....	110	.....	.....	.....
Fort Reno	40.2	38.1	48.8	61.8	66.7	76.4	81.0	75.2	72.1	61.5	48.6	43.2	59.5	104	4	Apr. 21	Oct. 29
Fort Sill	39.0	37.2	49.8	65.0	67.8	78.8	85.0	77.5	75.0	61.2	46.4	44.2	60.5	104	5	Mar. 19	Nov. 12
Fort Supply	37.2	33.4	46.5	58.2	64.4	78.6	82.0	74.4	72.4	57.0	41.5	37.8	58.0	111	−2	Apr. 20	Oct. 13
Gate City	40.5	36.1	[e]48.9	58.6	64.4	77.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Guthrie	38.8	40.2	53.7	63.8	66.0	80.0	86.0	77.4	.....	65.3	.....	.....	.....	.....	.....	.....	.....
Keokuk Falls	35.0	36.4	48.1	60.3	62.1	74.4	80.2	75.8	67.8	[e]59.8	45.2	45.2	57.5	100	0	Apr. 23	Oct. 16
Mangum	43.6	39.5	52.0	64.6	68.0	78.6	83.7	76.0	74.3	61.9	47.6	45.2	61.2	104	6	Mar. 24	Oct. 27
*Oklahoma City	37.6	35.8	50.2	62.4	65.4	76.2	81.2	75.2	74.4	61.7	45.4	43.7	59.1	101	−2	.....	Nov. 13
Ponca	31.4	30.6	.....	[b]56.9	[f]63.9	.....	.....	78.4	76.4	61.1	[e]41.6	[e]43.8	.....	.....	−2	.....	.....
Sac and Fox Agency	37.1	37.7	47.8	62.2	61.8	74.6	79.0	75.2	74.0	.....	.....	.....	.....	104	−3	.....	.....
Stillwater (*a*)	33.9	35.2	49.5	61.6	65.5	[d]77.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Winnview	38.6	38.0	51.0	63.8	68.4	79.6	84.0	76.2	75.8	[f]64.7	[e]43.6	44.2	60.7	107	7	Apr. 21	Nov. 12
Oregon.																	
Albany [1]	32.9	40.0	44.0	46.5	53.9	58.0	64.2	64.7	56.0	47.5	43.7	43.4	49.6	97	3	Apr. 15†	Oct. 24
Albany (*g*) [2]	31.8	44.5	46.6	45.9	61.5	62.2	68.0	69.0	60.4	50.3	44.6	45.9	52.6	96	20	.....	.....
Arlington	27.8	28.1	43.4	50.2	58.8	63.5	72.2	72.4	62.3	50.1	41.2	41.2	50.9	103	−8	Apr. 8	Oct. 22†
Ashland (*g*) [2]	32.1	38.0	43.7	44.7	54.7	62.4	69.6	70.1	58.0	48.0	41.5	35.2	49.8	102	.....	Apr. 27	Oct. 17
Ashland [3]	.....	38.8	43.0	44.7	53.4	58.5	65.7	68.0	57.6	48.9	43.4	38.2	49.3	102	17	.....	.....
*Astoria	38.6	40.0	45.0	45.7	52.5	55.4	60.8	62.4	57.4	50.3	45.4	45.2	49.0	85	16	Apr. 8	Nov. 1
Aurora (*g*)	37.2	41.2	47.0	47.2	58.0	62.0	72.9	70.2	61.1	53.1	49.2	47.8	53.9	97	20	.....	Oct. 24
Aurora (near)	33.5	39.2	42.6	45.9	53.2	56.7	61.8	63.7	56.2	49.6	44.2	43.2	49.2	94	14	Apr. 17†	Oct. 23
Bake Oven (*a*)	28.3	29.8	37.8	41.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 19†	.....
*Baker City	25.0	24.2	32.1	41.3	49.8	55.2	65.0	65.9	55.1	44.4	34.5	32.7	43.8	100	−17	May 30	Sept. 18
Bandon	42.2	45.0	46.7	47.6	50.7	56.0	58.0	56.0	56.0	50.5	49.0	47.6	50.4	78	30	Jan. 23†	None.
Beulah	22.2	26.4	32.8	42.3	.....	58.0	67.8	67.0	55.0	.....	.....	.....	.....	.....	.....	June 30	Sept. 2
Brownsville (*g*)	33.4	41.8	48.2	47.1	57.2	61.4	67.9	68.8	58.8	49.8	44.8	44.4	52.0	96	14	.....	.....
Burns	20.2	21.6	29.6	37.4	47.1	54.0	64.0	63.7	52.6	43.2	.....	27.1	.....	95	−9	June 22†	Oct. 2
Canyon City	36.0	33.5	39.9	45.5	54.6	62.7	71.5	74.8	61.2	49.2	40.0	37.2	50.5	109	2	May 9†	Oct. 8†
Cascade Locks	32.0	31.4	42.7	46.5	54.9	58.8	65.2	67.7	58.4	49.2	44.3	42.6	49.5	92	−6	.....	Oct. 22†
Comstock (*g*)	35.9	40.1	45.9	48.5	55.6	59.5	65.5	64.2	55.8	49.0	44.7	43.5	50.7	100	17	.....	.....
Corvallis [4]	32.4	39.0	44.3	45.2	53.0	56.2	62.2	63.7	56.4	48.5	43.6	42.4	48.9	96	4	Apr. 17	Oct. 23
Corvallis (*g*) [2]	33.3	40.1	44.1	47.4	55.9	60.8	66.9	66.0	54.2	46.3	42.9	40.9	49.9	94	8	.....	.....
Corvallis (near)	33.3	40.6	45.0	47.0	55.1	58.0	65.1	.....	58.0	49.2	43.8	43.2	.....	.....	12	Apr. 17†	Oct. 23
Crook	30.8	26.9	32.5	36.6	45.8	50.6	60.0	62.8	.....	.....	38.0	35.5	.....	99	−7	May 26	.....
Eugene	34.8	41.6	45.8	47.0	54.0	56.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 17	.....
Fife	.....	.....	31.9	37.4	.....	.....	.....	[e]60.4	.....	.....	.....	.....	.....	.....	.....	.....	Aug. 7†
Forest Grove	30.8	35.2	42.1	45.3	.....	55.9	62.8	.....	.....	46.6	42.4	41.6	.....	.....	12	Apr. 24	Oct. 23
Gardiner	41.6	44.3	46.5	46.8	53.0	57.0	60.0	60.7	57.7	51.9	48.4	46.6	51.2	90	27	Apr. 8†	Nov. 1†
Glenora	.....	35.1	39.7	42.3	51.0	53.4	60.7	64.3	52.0	47.6	41.2	.....	.....	100	14	Apr. 18†	Oct. 18
Grants Pass [5]	32.1	37.8	44.0	46.1	55.2	59.4	64.6	67.8	57.7	50.6	43.5	38.1	49.7	101	10	Apr. 26†	Oct. 1†
Grants Pass (*g*) [2]	34.3	36.5	44.4	49.9	56.7	60.8	66.5	69.7	59.3	51.0	47.0	41.8	51.5	96	19	.....	.....
Happy Valley	24.6	27.2	34.6	40.5	48.5	54.6	63.7	63.7	53.6	45.9	36.2	34.2	44.0	98	−4	June 19	Aug. 13
Heppner	30.1	30.2	41.3	45.1	52.8	56.7	66.0	66.9	57.9	47.0	41.8	40.2	48.0	98	−21	Apr. 11	Oct. 13
Hood River (near)	27.2	26.2	39.2	42.6	51.5	54.0	62.2	63.6	54.7	46.0	40.3	39.6	45.6	92	−10	Apr. 8	Oct. 23
Hubbard	34.4	40.6	45.5	47.3	54.6	57.2	62.2	63.6	56.7	48.3	43.2	.....	.....	93	11	Apr. 9	Oct. 23
Jacksonville	33.5	36.8	44.6	46.6	54.2	59.2	65.8	67.8	57.6	49.2	44.4	37.9	49.8	95	13	Apr. 27	Oct. 17
Joseph	22.2	21.0	28.0	37.4	46.8	51.8	61.8	63.0	51.8	40.4	32.4	28.6	40.4	95	−16	June 28	Sept. 18
Junction City (*g*)	33.0	41.9	44.4	48.8	54.9	61.3	69.7	69.4	61.4	52.0	46.0	47.5	52.5	98	26	.....	.....
Lafayette (*g*)	32.7	39.1	44.8	.....	56.9	63.1	69.7	72.6	59.8	52.0	46.7	43.4	.....	102	10	.....	.....
La Grande	30.4	27.8	36.6	44.6	49.0	59.2	67.0	69.2	58.3	46.0	38.0	38.1	47.0	103	−8	May 20	Oct. 12
Lakeview	29.1	24.2	31.6	37.5	.....	56.4	64.2	66.9	[e]51.4	41.9	34.8	29.9	.....	98	−12	June 22	Sept. 16
Langlois	45.1	45.4	48.5	48.6	54.8	58.8	60.7	62.9	58.9	55.4	51.4	48.8	53.3	90	26	Apr. 8	Nov. 1
Leland (*g*)	32.9	35.8	41.4	44.8	54.8	60.1	66.5	66.9	56.7	48.5	45.0	.....	.....	100	20	.....	.....
Lone Rock	29.0	29.2	[e]35.2	39.7	.....	.....	59.7	61.6	52.6	41.1	.....	35.6	.....	96	−20	May 30	Aug. 7
McMinnville [6]	33.4	39.2	44.0	45.5	54.0	56.6	65.5	64.8	56.1	48.9	44.2	42.8	49.4	100	1	Apr. 15	Nov. 1
McMinnville (*g*) [2]	34.2	39.5	45.2	47.8	56.2	.....	70.0	66.7	56.9	48.9	44.6	42.4	.....	100	15	.....	.....
Merlin (*g*)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42.9	.....	.....	.....	.....	.....
Monmouth (*g*)	34.4	41.4	45.5	50.0	59.0	64.3	74.8	73.5	62.0	51.9	45.2	44.6	53.9	98	17	.....	.....
Mount Angel (*a*)	32.4	39.9	43.9	46.8	53.9	56.8	64.2	65.2	56.6	47.6	44.4	44.1	49.6	94	8	Apr. 17	Oct. 19
New Bridge	30.4	33.2	.....	.....	56.1	65.0	73.2	76.7	60.7	.....	41.4	38.2	.....	110	−3	May 25	Sept. 30
Newport	44.6	48.8	43.6	42.0	47.0	49.9	59.8	53.6	51.8	52.2	48.2	47.1	48.7	86	20	May 24	Sept. 3
Oregon City	.....	.....	.....	.....	.....	.....	66.6	69.5	61.0	52.7	47.9	46.1	.....	.....	.....	.....	.....

[1] John Briggs.
[2] Pacific Railroad.
[3] F. H. Carter.
[4] President John Fulton (Oregon Agricultural College).
[5] John B. Paddock.
[6] Capt. Wyatt Harris.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Oregon—Continued.																	
Pendleton	.....	.....	.....	.....	.....	59.7	68.8	70.0	60.1	48.1	40.1	40.6	.....	107	.....	.....	Oct. 22
*Portland	34.1	37.2	44.4	45.9	54.4	57.6	64.5	66.2	57.9	49.5	45.6	43.8	50.1	94	8	Feb. 26	Oct. 23
Portland (*g*)[1]	34.0	36.9	44.1	.....	55.1	61.7	69.7	71.1	60.2	50.6	45.4	44.0	.....	98	10	.....	.....
Riddles (*g*)	33.2	39.0	45.1	41.3	54.7	56.6	68.2	65.4	52.8	48.7	43.7	41.8	49.3	100	18	.....	.....
*Roseburg	35.6	41.0	46.4	47.4	55.0	58.1	64.8	66.0	57.4	50.0	45.6	43.0	50.8	96	20	Mar. 13	Nov. 17
Roseburg (*g*)[1]	38.4	42.3	48.2	50.0	58.1	62.2	69.3	69.2	59.5	51.3	47.4	48.6	53.7	97	26	.....	.....
Salem[2]	33.8	40.6	45.8	47.4	53.8	57.8	62.0	63.4	56.6	48.3	43.4	44.0	49.7	94	17	Apr. 17	Oct. 13
Salem (*g*)[1]	33.8	41.9	45.8	39.9	54.0	57.9	65.0	64.6	56.8	48.7	44.8	45.3	49.9	94	17	.....	.....
Sheridan (*g*)	34.9	39.1	45.9	48.8	56.7	61.9	67.9	68.2	58.2	51.0	45.2	44.1	51.8	96	22	.....	.....
Silver Lake	25.2	27.0	36.2	41.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−8	.....	.....
Silverton (*g*)	32.7	40.2	43.8	43.4	55.3	61.9	65.3	64.9	56.8	48.7	44.0	42.6	50.0	92	18	.....	.....
Siskiyou (*g*)	34.9	35.8	38.5	40.9	50.4	57.8	64.7	69.2	56.1	48.8	43.0	38.7	48.1	98	12	.....	.....
Sparta	26.5	23.8	32.4	40.0	47.8	54.1	64.4	67.6	53.4	44.2	35.8	32.1	43.5	97	−1	June 14	Sept. 20
Springbrook	35.0	39.0	44.5	45.2	54.2	57.2	65.1	68.2	58.2	49.5	44.7	43.0	50.3	.....	.....	.....	Oct. 24
Springfield (*g*)	32.9	29.8	43.8	47.4	56.2	61.2	69.6	68.7	56.9	48.8	43.0	41.2	50.8	97	15	.....	.....
The Dalles	26.9	30.1	44.0	49.9	58.2	61.8	69.7	70.6	60.6	49.3	41.6	41.6	50.4	102	−6	Apr. 18	Oct. 23
Toledo	41.4	42.9	45.3	46.2	52.6	55.8	60.6	62.0	55.6	51.2	48.1	46.3	50.7	92	23	Apr. 16	Oct. 25
Vale	21.8	30.0	38.8	46.4	55.0	61.6	69.4	68.7	59.2	46.4	35.6	33.1	47.2	104	−6	June 21	Sept. 18
Vernonia (*a*)	.....	32.7	39.8	45.1	52.6	55.0	61.6	62.1	57.5	47.8	44.0	42.2	.....	.....	.....	June 29	Sept. 23
Wagner	.....	33.4	38.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
West Fork (*g*)	39.3	40.5	45.7	47.4	56.7	59.4	67.0	67.8	58.2	51.9	45.8	44.5	52.0	106	26	.....	.....
Weston	.....	29.0	.....	45.6	54.0	58.0	67.2	68.2	57.9	46.4	39.5	39.9	.....	99	.....	Apr. 16	Oct. 12
Williams	34.2	36.9	43.9	45.2	54.0	.....	64.2	65.6	56.6	49.0	43.6	39.6	.....	96	7	Apr. 23	Sept. 30
Pennsylvania.																	
Altoona[3]	28.7	35.5	42.9	53.5	62.5	73.6	75.9	73.4	63.9	[c]55.6	44.9	41.8	54.4	95	2	.....	.....
Aqueduct (*a*)	21.8	30.2	36.6	50.5	61.3	72.4	74.6	73.2	61.9	53.9	39.4	33.4	50.8	102	−10	.....	Sept. 30
Blooming Grove (*a*)	17.8	24.1	31.8	43.5	57.1	68.5	69.9	67.2	55.2	49.4	34.8	29.4	45.7	100	−14	.....	.....
Bloomsburg	[d]20.2	27.3	34.6	48.0	57.9	70.8	75.9	71.8	60.3	53.3	40.0	31.8	49.3	97	−13	.....	.....
Blue Knob (*a*)	16.5	24.6	31.5	46.2	57.0	69.7	70.5	68.6	58.8	48.2	34.6	29.0	46.4	91	−13	.....	.....
Carlisle (*a*)	18.9	27.1	35.8	47.3	58.1	69.3	73.0	70.8	62.0	[c]53.6	38.0	31.9	48.8	100	−10	.....	.....
Chambersburg	.....	.....	38.3	49.6	59.8	72.4	74.7	73.2	65.0	54.4	.....	33.9	.....	97	.....	.....	.....
Coatesville (*a*)	18.9	28.9	35.7	49.7	59.8	70.2	73.6	72.0	59.1	53.5	39.4	32.3	49.4	98	−12	.....	.....
Coopersburg (*a*)	20.2	27.8	34.8	47.7	58.7	68.3	72.0	71.5	60.4	53.2	39.8	32.2	48.9	93	−5	.....	.....
Corry	14.3	22.6	32.8	44.0	54.0	67.3	.....	.....	.....	.....	.....	.....	.....	97	−20	.....	.....
Drifton	[f]15.4	[f]23.7	[g]32.3	[f]43.7	[g]53.9	[g]64.1	67.5	[c]67.4	[d]57.4	[c]51.8	[g]37.6	[f]30.2	45.4	94	−9	.....	.....
Dyberry (*a*)	14.1	20.7	28.6	41.8	54.4	66.0	65.6	66.1	53.5	48.1	35.0	25.8	43.3	95	−22	.....	Sept. 27
East Mauch Chunk	18.9	25.8	34.3	47.1	58.5	69.6	70.9	70.4	59.7	52.8	39.0	30.6	48.1	99	−13	.....	.....
Easton (*a*)	19.5	27.0	34.0	47.1	59.6	70.2	73.0	72.8	61.1	53.0	40.0	30.3	49.0	97	−14	.....	Oct. 17
Edinboro (*a*)	14.6	21.3	30.5	42.5	53.0	68.0	69.8	66.6	58.9	50.4	35.6	27.2	44.9	88	−12	.....	.....
Emporium (*a*)	17.7	25.5	33.3	46.4	56.8	68.3	70.1	67.4	[d]59.6	52.0	38.1	30.8	47.2	93	−16	.....	.....
*Erie	17.8	24.5	33.0	44.2	54.0	66.3	70.8	68.2	61.6	54.0	40.4	21.4	47.4	90	−5	Apr. 22[f]	Oct. 17
Forks of Neshaminy (*a*)	23.2	30.3	36.9	49.2	58.1	69.9	74.3	72.9	62.0	53.4	41.2	34.1	50.5	.....	.....	.....	.....
Girardville (*a*)	19.7	27.9	32.9	46.2	57.8	68.7	70.2	69.2	59.2	52.1	39.0	[c]31.6	47.9	94	−4	.....	.....
Grampian (*a*)	15.0	23.5	32.0	44.3	56.2	69.0	70.4	67.6	[d]59.2	49.5	34.1	29.4	45.8	94	−16	.....	.....
Hamburg	.....	.....	35.0	48.3	59.9	71.8	74.3	73.5	62.4	54.8	40.5	31.9	.....	100	.....	.....	.....
*Harrisburg	21.0	29.2	36.4	48.6	59.0	71.0	74.8	73.1	63.4	55.0	40.4	33.5	50.4	96	−4	.....	Oct. 17
Hollidaysburg (*a*)	19.2	29.0	36.3	49.8	58.4	69.4	71.8	70.6	61.5	51.3	38.1	34.4	49.2	98	−20	.....	.....
Honesdale (*a*)	17.0	22.8	30.4	43.0	55.7	67.4	67.0	66.5	55.9	50.2	36.8	27.6	45.0	89	−19	.....	.....
Huntingdon	20.0	28.1	36.3	49.2	58.7	68.9	72.4	70.3	61.0	52.5	39.6	33.4	49.2	99	−13	.....	.....
Johnstown	20.3	30.0	37.8	49.8	58.5	70.3	72.1	70.4	65.9	[b]54.9	.....	34.0	.....	96	−13	.....	.....
Kane	16.4	20.5	29.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−12	.....	.....
Kennett Square (*b*)	19.0	28.0	35.0	47.5	57.7	69.7	72.4	70.3	[c]64.3	55.8	41.1	35.6	49.6	.....	.....	.....	.....
Kilmer (*a*)	23.5	29.7	35.7	48.2	62.3	72.0	72.4	75.0	62.9	54.0	40.6	35.8	51.0	100	−6	.....	Sept. 30
Lancaster	20.2	29.4	36.0	49.9	58.4	70.5	.....	[e]73.7	63.4	54.3	40.2	[e]31.1	.....	.....	−9	.....	.....
Lebanon (*a*)	20.4	28.1	35.5	48.1	57.4	70.9	72.8	71.4	62.3	53.2	40.0	31.6	49.3	98	−10	.....	.....
Le Roy	15.5	21.9	30.2	42.0	55.6	67.8	69.8	68.3	58.6	52.0	36.8	27.1	45.5	94	−10	.....	Oct. 16
Lewisburg	18.0	27.0	[f]34.0	47.2	57.6	70.3	72.3	.....	60.2	52.6	38.3	[g]34.1	.....	104	−15	.....	.....
Ligonier	17.1	.....	36.3	[c]47.5	[d]55.9	68.6	69.5	67.9	[b]59.8	51.5	.....	.....	.....	95	−20	.....	.....
Lock Haven (*a*)	18.7	26.6	34.1	46.5	58.4	70.4	71.6	69.7	60.3	52.4	38.7	32.0	48.3	100	−10	.....	.....
Lycippus (*a*)	27.9	35.3	.....	50.7	58.1	68.0	69.6	68.1	62.6	55.6	43.9	35.2	.....	88	.....	.....	.....
McConnellsburg (*a*)	20.8	31.3	38.5	49.7	59.3	69.3	72.6	.....	.....	.....	.....	.....	.....	.....	−11	.....	.....
Meadville	.....	22.7	32.2	45.1	56.2	68.2	70.4	66.0	60.6	.....	.....	.....	.....	93	.....	.....	.....
Newcastle (*a*)	19.2	28.8	37.9	50.7	59.7	73.5	70.6	66.8	64.8	52.3	39.9	32.8	49.8	96	−12	.....	.....
*Philadelphia	21.0	32.0	39.2	50.8	61.0	72.2	76.6	75.6	65.8	57.6	44.0	36.4	52.9	98	0	Mar. 30[f]	Oct. 30
Philadelphia[4]	24.4	32.9	39.4	51.7	61.4	72.2	76.6	75.2	65.7	57.4	44.3	37.0	53.2	98	0	.....	Oct. 30
Philadelphia[5]	23.5	32.4	.....	51.3	60.8	72.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Oct. 30
Phœnixville	21.1	30.8	37.7	50.7	60.4	70.9	75.3	74.6	64.3	55.7	42.1	35.0	51.6	98	−12	.....	.....
*Pittsburg	21.6	31.8	40.1	51.4	59.6	71.8	73.7	71.4	65.3	55.4	41.6	36.0	51.8	95	−3	Apr. 23	Sept. 29
Pottstown	21.0	29.9	37.4	51.1	61.7	72.9	76.3	74.8	63.6	55.5	42.4	33.4	51.7	98	−11	.....	.....
Quakertown	18.1	27.3	34.1	47.4	59.3	68.6	72.0	70.9	60.1	52.2	39.3	31.1	48.2	102	−14	.....	Oct. 17
Reading (*b*)	18.7	.....	35.1	.....	.....	.....	.....	.....	.....	52.6	39.5	29.2	.....	.....	.....	.....	.....
Saegerstown	13.3	24.5	32.1	45.2	53.5	67.3	68.3	66.1	59.7	50.8	36.4	28.7	45.5	94	−25	.....	.....
Salem Corners	15.6	22.4	29.0	41.7	54.4	66.3	67.7	66.9	55.9	48.7	[g]34.0	27.5	44.2	92	−10	.....	.....
Selins Grove (*a*)	19.3	26.9	35.5	49.3	59.4	72.0	75.7	73.8	63.2	52.4	39.1	32.4	49.9	99	−12	.....	.....
Shinglehouse	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34.7	28.6	.....	.....	.....	.....	.....
Skippack	.....	.....	[f]37.0	[g]49.0	[g]59.6	[g]70.6	.....	72.8	[d]62.1	[f]54.5	[g]41.5	.....	.....	.....	.....	.....	.....
Smethport	14.6	22.2	30.7	41.0	53.1	65.9	67.4	65.1	57.8	50.5	35.2	27.1	44.2	91	−15	.....	.....
Somerset (*a*)	18.6	26.5	35.4	44.4	54.7	67.1	67.5	70.2	59.9	49.2	35.9	32.9	46.9	96	−14	.....	.....
South Eaton	17.4	24.7	32.5	46.1	56.6	68.2	68.9	68.0	58.0	52.0	38.8	31.0	46.8	91	−18	.....	.....
State College (*a*)	17.8	25.2	33.2	46.3	57.4	68.6	70.7	68.8	60.0	51.8	37.7	31.9	47.4	92	−7	.....	Sept. 27
Swarthmore	22.6	32.0	39.1	48.8	61.2	.....	.....	.....	.....	56.5	41.9	36.4	.....	.....	−8	.....	.....
Uniontown (*a*)	24.1	34.4	40.0	51.8	59.2	[d]70.2	.....	.....	64.4	[c]56.2	41.5	37.2	.....	.....	−8	.....	.....
Wellsboro (*a*)	15.8	23.0	29.1	40.1	50.9	63.8	65.1	63.2	53.2	46.0	33.5	28.3	42.7	92	−16	.....	Sept. 27
West Chester	21.2	30.1	37.1	49.8	59.4	70.8	74.4	73.5	63.4	55.3	41.6	35.0	50.9	96	−4	.....	.....

[1] Pacific Railroad. [2] C. T. Roberts. [3] The monthly values are evidently too high. [4] John Comly. [5] Ralph L. Paddock.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Pennsylvania—Cont'd.																	
Westtown	24.5	30.0	35.8	.....	58.0	69.4	.....	.....	[a]60.8	[a]54.0	39.1	[a]33.2	.....	.....	—11	.....	Oct. 17
Wilkesbarre	20.5	27.5	35.0	49.0	61.6	71.2	73.0	71.3	60.3	53.2	39.9	31.6	49.5	97	—8	.....	.....
Wysox (*a*)	18.6	25.1	32.7	.....	58.8	69.2	70.2	68.1	58.6	50.7	.....	.....	.....	96	—16	.....	.....
York	19.7	29.6	37.1	50.4	59.7	71.0	74.5	72.1	63.3	54.2	40.5	34.0	50.5	98	—14	.....	.....
Rhode Island.																	
Bristol (*a*)	20.4	27.4	33.4	42.7	52.3	63.4	.....	.....	.....	.....	42.0	32.0	.....	.....	—4	.....	.....
[b]Block Island	23.7	28.6	33.8	42.1	52.0	60.7	68.3	67.6	61.2	54.7	44.8	35.2	47.7	86	2	Apr. 7	Nov. 1
Kingston (*a*)	20.0	26.8	31.4	42.3	53.5	61.9	67.9	67.6	57.5	51.6	39.4	30.2	45.8	92	—8	.....	Oct. 17
[b]Narragansett Pier	19.8	27.2	32.8	42.5	54.3	63.6	69.0	68.1	58.6	52.6	41.4	32.4	46.8	92	—4	Mar. 7	Oct. 16
Newport	24.5	30.2	35.6	45.7	56.3	.....	.....	.....	[a]60.8	55.9	44.6	34.4	.....	.....	.....	.....	.....
Olneyville	22.8	27.6	.....	45.9	55.8	66.8	71.0	70.6	61.1	59.0	.....	.....	.....	.....	.....	.....	.....
Pawtucket (*a*)	22.7	29.0	34.2	45.0	57.0	65.0	70.6	69.6	59.2	53.7	40.7	31.5	48.0	93	—9	.....	.....
Providence[1]	21.2	28.0	34.7	46.7	58.6	67.3	73.0	72.0	60.0	54.5	41.6	32.3	49.1	96	0	.....	Oct. 30
Providence[2]	19.4	26.0	32.4	43.8	55.8	64.2	70.3	69.7	58.8	53.5	40.3	30.9	47.1	93	—4	.....	Oct. 30
Providence[3]	18.6	26.0	32.8	44.4	57.1	65.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Carolina.																	
Aiken (*a*)	36.7	48.4	.....	.....	.....	.....	.....	.....	.....	.....	53.6	50.9	.....	.....	.....	.....	Oct. 31
[b]Allendale	.....	.....	.....	.....	72.0	78.2	83.2	79.8	76.9	66.0	55.1	.....	.....	99	.....	.....	Oct. 31
[b]Batesburg	.....	.....	.....	.....	70.6	76.6	82.4	78.0	75.0	62.8	52.1	.....	.....	100	.....	.....	Oct. 30
Blacksburg	.....	.....	.....	.....	.....	.....	76.4	69.6	62.6	.....	.....	.....	.....	.....	.....	.....	Oct. 30
[b]Blackville	.....	.....	.....	.....	73.0	78.4	83.4	79.2	77.1	66.1	55.0	.....	.....	98	.....	.....	Oct. 31
Blenheim	.....	.....	.....	.....	.....	.....	[c]79.8	76.0	72.1	60.2	47.3	43.2	.....	.....	.....	.....	Oct. 31
[b]Brewer Mine	.....	.....	.....	.....	68.7	75.7	82.8	76.4	71.5	60.0	49.8	.....	.....	104	.....	.....	Oct. 29
Central (*b*)	.....	.....	.....	.....	.....	.....	84.1	74.2	70.6	58.8	46.7	42.5	.....	.....	.....	.....	Oct. 29
[b]Charleston	43.4	55.7	55.7	68.2	72.3	77.8	82.8	79.3	78.0	68.2	57.8	53.6	66.1	99	20	Feb. 23	Nov. 25
[b]Cheraw	33.5	47.6	52.5	66.2	69.0	76.3	82.0	76.8	73.3	62.0	51.1	47.6	61.5	104	3	Mar. 30	Oct. 31
[b]Columbia	38.0	50.8	54.4	69.0	71.2	77.5	83.4	78.2	75.6	64.6	53.5	49.9	63.8	102	11	Mar. 18	Oct. 30
Connors	.....	.....	.....	.....	.....	.....	.....	.....	75.1	[c]64.5	53.9	47.6	.....	.....	.....	.....	Oct. 31
Cross Hill (*a*)	.....	.....	.....	.....	.....	.....	[c]80.9	76.4	72.3	62.2	50.6	48.5	.....	.....	.....	.....	Oct. 31
Darlington (*a*)	.....	.....	.....	.....	.....	.....	[c]82.2	78.1	.....	64.8	.....	50.4	.....	.....	.....	.....	Oct. 31
Davis Bridge (*a*)	.....	.....	.....	.....	.....	.....	77.8	77.8	76.2	.....	.....	.....	.....	.....	.....	.....	.....
Evergreen	.....	.....	53.3	64.8	67.6	73.9	80.9	75.4	71.8	61.1	49.6	[a]45.8	.....	100	.....	.....	.....
Flint Hill	36.3	46.6	51.5	67.4	69.8	75.9	82.9	76.6	72.3	61.9	50.2	46.2	61.6	102	8	.....	Oct. 31
[b]Florence	.....	.....	.....	.....	72.3	78.4	84.6	79.8	75.8	63.8	53.3	.....	.....	102	.....	.....	.....
Georgetown	.....	.....	.....	.....	.....	.....	.....	78.4	75.7	66.0	57.5	53.8	.....	.....	.....	.....	Nov. 25
[b]Greenville	.....	.....	.....	.....	63.8	71.4	77.6	74.4	71.2	61.0	48.9	.....	.....	96	.....	.....	Oct. 30
[b]Greenwood	.....	.....	.....	.....	70.2	77.2	82.4	78.2	74.6	63.7	52.3	.....	.....	100	.....	.....	Oct. 30
Hampton (*a*)	.....	.....	.....	.....	.....	.....	81.7	77.9	77.0	.....	.....	.....	.....	.....	.....	.....	.....
[b]Hardeeville	.....	.....	.....	.....	71.0	77.2	82.0	78.6	76.7	67.0	57.0	.....	.....	98	.....	.....	.....
[b]Kingstree	.....	.....	.....	.....	70.7	77.1	82.2	81.3	84.5	69.8	59.9	.....	.....	100	.....	.....	Oct. 31
Kitchings Mills	[c]35.2	51.8	.....	[c]66.8	[c]69.4	67.8	82.8	78.6	75.2	.....	.....	.....	.....	104	6	.....	.....
Little Mountain (*a*)	.....	.....	.....	.....	.....	.....	.....	.....	.....	64.1	53.4	51.3	.....	.....	.....	.....	Oct. 31
Longshore	37.2	48.6	52.5	66.8	69.3	76.0	82.4	77.3	73.4	62.6	51.2	48.1	63.8	103	8	Mar. 30	Oct. 30
McCormick (*f*)	.....	.....	.....	.....	.....	75.5	[c]82.8	76.7	.....	.....	52.7	47.6	.....	.....	.....	.....	Nov. 25
Manning (*b*)	.....	.....	.....	.....	.....	.....	79.2	74.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pinopolis (*a*)	.....	.....	.....	.....	.....	73.6	80.0	76.7	74.5	[c]64.2	53.8	49.9	.....	91	.....	.....	Oct. 31
Port Royal (*a*)	42.9	55.9	56.6	68.6	72.7	80.0	84.0	79.6	78.7	68.6	58.2	53.7	66.6	99	20	.....	Nov. 25
[b]St. Georges	.....	.....	.....	.....	71.2	76.7	82.0	78.1	75.9	65.9	55.6	.....	.....	98	.....	.....	.....
[b]St. Matthews	.....	.....	.....	.....	72.6	77.6	83.1	78.8	72.0	65.8	56.3	.....	.....	99	.....	.....	Oct. 31
Santuck (*a*)	.....	.....	.....	.....	.....	.....	.....	76.8	71.4	61.5	49.5	46.8	.....	.....	.....	.....	Oct. 30
Sedalia (*a*)	.....	.....	.....	.....	69.3	75.2	80.7	75.9	74.0	.....	.....	.....	.....	99	.....	.....	.....
Selma (*c*)	.....	.....	.....	.....	72.4	.....	[c]84.7	80.4	76.4	.....	.....	.....	.....	.....	.....	.....	.....
Simpsonville (*a*)	34.4	45.5	.....	63.4	68.9	76.6	82.6	77.0	73.1	60.8	51.4	47.6	.....	104	5	Mar. 30	Oct. 29
Society Hill	35.6	49.5	53.8	67.1	68.6	74.8	80.6	76.4	72.5	61.2	51.8	47.8	61.6	97	8	.....	Oct. 30
[b]Spartanburg	.....	.....	.....	.....	67.6	74.7	81.6	77.2	73.4	62.1	50.0	.....	.....	101	.....	.....	Oct. 30
Statesburg (*a*)	38.0	50.1	53.3	67.4	69.7	74.6	80.2	75.2	73.1	62.3	52.5	49.6	62.2	98	13	.....	Oct. 31
Tatum Station (*c*)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47.2	42.9	.....	.....	.....	.....	.....
Tillers Ferry (*c*)	.....	.....	.....	.....	.....	.....	83.8	78.7	73.0	.....	.....	.....	.....	102	.....	.....	Oct. 31
Timmonsville (*a*)	.....	.....	.....	.....	.....	.....	.....	.....	.....	66.9	[c]57.8	54.3	.....	.....	.....	.....	Oct. 31
Trenton (*a*)	.....	.....	.....	.....	72.2	78.2	84.4	80.8	78.0	67.7	55.7	48.9	.....	97	.....	.....	Oct. 31
Trial	40 9	54.1	55.5	68.7	70.3	76.3	81.5	78.4	76.7	67.8	57.3	54.3	65.2	97	9	Mar. 30	Oct. 31
Vance (*b*)	.....	.....	.....	.....	[d]70.2	[d]76.4	[c]81.6	[d]77.3	[d]75.6	.....	.....	.....	.....	.....	.....	.....	.....
Watts (*e*)	.....	.....	.....	.....	70.0	75.6	80.5	77.0	72.6	62.4	50.6	47.3	.....	102	.....	.....	Oct. 31
Yorkville	35.3	47.0	51.8	64.8	67.8	74.6	80.9	76.2	73.0	62.0	50.8	47.9	61.0	97	7	Mar. 30	Oct. 31
[b]Younge Island	.....	.....	.....	.....	72.4	80.3	82.9	78.4	76.2	67.3	.....	.....	.....	103	.....	.....	.....
South Dakota.																	
Aberdeen	5.3	8.6	19.4	37.5	53.9	75.4	71.2	68.4	52.0	45.0	27.4	16.4	39.6	104	—42	May 25†	Aug. 28
Alexandria	9.8	11.4	24.5	42.8	54.1	71.0	73.9	70.8	55.6	47.2	33.0	16.6	43.4	106	—27	May 26†	Sept.16†
Ashcroft	17.2	11.2	23.6	36.8	50.2	65.0	70.6	68.0	59.5	43.6	28.2	23.3	41.4	106	—44	May 26†	Sept.15†
Bear Valley (*a*)	(24.0)	(15.0)	29.3	37.5	50.9	66.6	71.8	67.9	58.7	41.8	31.2	28.0	(43.6)	101	.....	May 1†	Sept.24†
Bowdle (*a*)	6.2	6.3	20.0	37.4	55.6	70.5	71.5	69.7	59.8	42.6	27.5	14.8	40.2	98	—38	Apr. 30†	Oct. 6†
Britton	0.6	2.8	16.6	37.0	[c]52.6	.....	.....	[c]67.2	59.0	.....	.....	8.0	.....	.....	—40	May 22†	Sept.15†
Brookings (*a*)	12.2	13.6	27.4	(41.0)	53.2	70.0	72.7	68.6	61.4	44.3	27.1	13.2	(42.1)	99	—29	May 25†	Sept.25†
Castlewood	2.6	5.4	19.5	36.4	52.8	67.2	69.8	67.2	59.3	36.1	26.2	9.5	37.7	102	—36	May 27†	Sept.16†
Clark	4.5	[b]10.6	17.8	41.3	[b]59.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 25†	.....
Cross	24.1	20.0	26.9	36.9	46.7	62.2	65.4	63.4	56.3	43.2	31.3	29.4	42.2	96	—25	June 6	Aug.16
De Smet (*e*)	5.6	5.2	[c]24.0	34.6	54.9	71.2	77.2	73.0	68.9	46.7	28.6	13.0	41.9	106	—35	.....	Sept.14†
Faulkton	9.0	8.4	[b]18.6	(38.0)	53.4	[c]99.0	71.6	69.3	61.3	44.4	27.8	.....	.....	102	.....	May 25†	Sept.19†
Flandreau	7.0	10.3	26.0	40.2	54.6	69.4	71.0	67.9	61.6	45.0	28.4	12.8	41.1	100	—29	May 25	Sept.15
Forestburg	6.0	10.5	29.1	41.5	55.0	70.6	72.0	69.3	63.6	46.6	29.3	15.4	42.4	102	—30	May 3	Sept.16
Forest City	14.7	[c]12.6	.....	.....	.....	.....	.....	.....	.....	48.2	[b]32.8	.....	.....	.....	—29	.....	.....
Fort Meade	25.0	16.6	28.8	40.4	52.8	69.2	73.8	71.4	62.6	47.6	34.2	27.9	45.9	105	—30	May 26	Sept.23

[1] City engineer. [2] Ladd observatory. [3] D. W. Hoyt.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
South Dakota—Cont'd.																	
Fort Sully	14.9	13.1	26.6	42.4	55.6	73.9	77.2	74.7	67.2	49.0	33.2	21.2	45.8	104	—32	May 2†	Sept.25†
Frankfort	8.2	8.6	21.7	39.5	53.0	69.8	71.6	68.9	61.9	44.0	27.8	10.7	40.5	105	—35	May 25	Sept.16
Gale (*a*)			22.8	37.8	53.9	71.8	74.1									Apr. 30†	
Gary	4.2	6.0	19.4	37.7	54.8	(70.0)	73.1	71.2	62.8	45.2	27.2	10.8	(40.2)	102	—32	May 3	Sept.16
Greenwood (*a*)							77.8	72.2	65.8	48.6	32.5	22.4					Sept.25†
Highmore (*a*)	9.1	8.4		39.6	50.0	70.8	70.5		66.9						—36	May 24†	Sept.15†
Hotch City	15.4	10.6	28.0	41.4	54.3	71.8	75.4	71.5	63.8	45.2	30.6	18.9	43.9	107	—29	May 6	Sept.23
Howard	6.5	9.0	24.7	40.2	53.5	(70.0)	72.4	69.0	63.2	45.8	28.0	13.4	(41.3)		—32	May 6†	Sept.16†
*Huron	8.8	9.0	23.2	40.4	54.0	70.2	72.2	68.8	62.6	45.7	29.3	14.0	41.5	102	—33	May 25	Sept.16
Kimball (*f*)	14.0	[1]11.4	[1]25.0	[1]39.4	54.6	[1]71.1	74.6	71.0	62.2	47.4	31.6	17.8	43.3	104	—27	May 27	Sept.23
Mellette (*a*)	8.2	11.2	25.1	39.3	55.6	71.5	75.8	71.6	64.6	45.2	28.1	(12.0)	(42.4)	100	—40	Apr. 26†	Sept.16†
Midland	16.6	16.7	28.4	42.6	56.2	73.1	76.4	73.0	63.8					104	—28	May 1	Sept.18
Millbank (*a*)	4.8	7.3	23.5					68.8	62.8	[1]46.6	30.4	11.7			—38		Sept.16
Mitchell (*a*)	12.2	12.8													—26		
Northville (*a*)								68.8	62.0	42.5	25.7	11.8				May 23	Sept. 2†
Oelrichs	24.8	19.1	31.6	42.6	56.5	73.2	74.4	70.7	61.6	45.0	33.4	26.0	46.0	110	—30	Apr. 20	Oct. 2†
Onida (*a*)	11.2	8.4	23.6	38.1	54.1		77.7	71.6	64.8						—30	May 27	Sept. 24
Parker	9.7	11.5	24.8	40.9	54.5			[1]70.9		46.4	29.2	16.4			—27	May 6†	Sept.23†
Parkston	12.3	13.6	25.4	42.0	53.4	65.9	(71.0)	[1]69.2	63.1	46.4	30.3	[1]18.2	(42.6)	101	—27	May 28†	Sept.15†
*Pierre	15.6	13.4	25.6	42.2	54.8	72.7	76.0	73.6	65.2	48.6	32.8	20.2	45.1	103	—26	May 2	Sept. 25
Plankinton (*f*)	10.3	10.3	25.2	40.0	53.7	69.7	74.2	69.5						101	—27	May 3†	
*Rapid City	25.8	17.0	29.8	40.1	51.9	68.0	72.6	70.2	62.8	46.8	33.6	28.1	45.6	103	—26	May 3	Sept. 23
Rosebud	23.0	17.8	(30.0)	[1]42.2	[1]53.9	70.4	75.8	68.8	[1]67.6	45.6	33.4	[1]24.0	(46.0)	106	—27	May 22	Sept. 19
St. Lawrence (*a*)	11.6																
Salem	[1]7.8	4.6	[1]20.7	[1]40.1	[1]52.9										—29	May 27†	
Shiloh												17.4					
Sioux Falls	8.2	9.8	25.3	40.4	55.4	75.0	72.5	68.9	63.6	(46.0)	30.2	[1]15.2	(42.5)	99	—35	May 3	Sept. 16
Spearfish	26.6	17.6	28.3	39.7	53.5	67.7	73.5	70.6	63.3	46.1	33.8	30.6	45.9	105	—30	May 1	Sept. 25
Travare	3.2	10.7															
Tyndall	15.0	16.0	(28.0)	43.5	55.9	73.8	76.2	72.8	67.7	49.4	33.9	21.2	(46.0)	102	—22	May 14	Sept. 4
Vermillion	16.8	14.3	26.7	42.2	56.0						33.2	18.3			—26	May 4†	
Watertown	5.5	6.2	20.2	39.2	53.2						28.6	13.0			—36	May 25	
Webster (*a*)	3.8	5.7	21.4	37.8	55.5	71.2	71.0	70.6	62.0	46.1	28.4	12.6	40.5	105	—42	May 25	Sept. 16
Wentworth (*a*)	6.0	6.8	(23.0)	35.4	50.9	67.2	70.0	[1]64.4	(58.0)	41.0	22.5	9.0	(37.8)	100	—30	May 25†	
Wessington Springs	10.2	12.8	25.7	41.3	55.5	71.4	74.0	71.2	66.4	48.0	33.8	18.2	44.0	106	—26	Apr. 29	Sept. 25
Wolsey (*a*)	9.4	8.4	22.8	39.3	54.6	69.4	(72.0)	67.3	59.9	42.9	27.1	14.5	(40.6)		—32	May 27	Sept. 16
*Yankton	14.2	15.8	28.0	44.0	56.7	71.9	74.8	71.0	65.8	50.8	34.3	19.4	45.6	98	—22	May 6	Sept. 25
Tennessee.																	
Andersonville (*a*)	38.3	40.2	[1]43.0	61.8	64.1	73.1	77.4	72.5	68.2	55.4	39.6	40.8	55.4	94	—14		Oct. 17
*Arlington					67.5	75.4	80.4	76.5	70.9	57.8	46.6						
Ashwood (*a*)	34.2	43.8	48.9	61.2	66.4	74.6	80.4	76.0	69.2	56.6	47.3	41.1	58.3	95	1		Oct. 30
Bethel Springs (*a*)	37.5	46.0	[1]53.8	[1]67.4	70.5	76.9	79.9	78.5	71.6	62.1				92	—4		
*Bolivar (*c*)	33.8	41.0	49.9	60.8	[2]62.3	73.3	77.8	75.4	68.3	55.6	46.6			96	—3		
*Brownsville					69.0		83.7	78.6	73.5	60.0	49.7						
Byrdstown (*c*)	30.1					72.7	[2]78.0	73.6	68.8	58.2	46.2	40.5		93	—1		Oct. 29
*Chattanooga	33.8	46.2	50.6	63.8	66.8	74.6	80.5	77.0	71.8	60.2	50.6	44.5	60.0	98	5	Apr. 24	Oct. 17
Clarksville	30.0	39.4	48.2	62.4	66.1	79.4	80.5		71.5	59.2	47.1	41.4			0		Oct. 29
Covington[1]	34.0	42.6	49.7	63.0	66.6	74.5	79.9	77.4	71.6	59.0	48.8	43.8	59.2	98	4		Oct. 30
*Covington[2]					69.8	77.2	83.0	77.9	72.5	60.2	50.8						Oct. 30
*Dyersburg					67.6	75.8	80.8	78.4	72.1	57.8	46.9						
Fayetteville (*a*)	32.6	45.8	49.7	63.2	67.4										0		
Florence Station (*a*)	32.5	40.8	48.0	61.0	66.0	74.9	80.4	76.5	70.2	57.4	46.8	41.2	58.0	95	0		Oct. 29
Franklin	31.6	42.2	[1]50.6	62.8	65.8	74.2	80.6	[2]75.8	69.3	56.7	45.5	41.0	58.0	98	—4		Oct. 16
Greeneville (*a*)	25.6	42.4	45.9	59.9	61.3	69.6	74.1	71.2	66.4	55.2	45.0	39.6	54.7	90	—20		Oct. 29
Harriman (*a*)			47.4	61.8	65.8	76.7	78.0	75.5	68.9	56.1	44.3			102			
Harrogate			47.2	60.3	62.4	71.0	75.4	72.0						89			
Hohenwald (*e*)	33.3		48.4	63.6	67.2	74.9		[2]77.2	[2]71.6	[2]59.5		41.2			—6		Oct. 15
Jacksboro (*e*)	24.8	40.8	44.5	58.3	61.0	70.2	74.1	70.5	[2]62.3	53.8	42.8	37.0	53.4	92	—10		
Jackson (*a*)	33.5	42.6	49.4	64.0	67.6	75.3	80.2	77.5	70.8	56.5	45.8	41.1	58.7	99	—3		Oct. 16
Johnson City (*a*)				61.3	64.0	72.4	[2]76.3	72.8	68.1	[2]54.4				95			
*Knoxville	29.6	44.0	48.3	62.5	64.6	73.4	78.8	75.2	70.4	58.8	48.0	42.0	58.0	94	—10	Apr. 24	Oct. 29
Lookout Mountain (*a*)	30.4	41.0	45.2	57.5	61.8	67.9	75.2	74.8						92	3		
Lynnville (*a*)	32.2	45.4	46.1	58.2	60.9	71.0	79.2	74.0	70.5	57.0	47.2	40.8	56.9	97	5		Oct. 29
*Memphis	38.8	43.6	51.4	65.2	68.8	76.8	82.0	78.8	73.0	61.1	50.0	45.8	61.3	97	13	Apr. 15	Oct. 16
*Milan					66.7	75.8	82.0	79.0	72.5	58.4	48.2						
Missionary Ridge (*c*)	31.8		48.6	61.8	64.8	71.6	77.6	74.2	69.1	57.5	48.5	41.8					
*Nashville	32.8	41.7	48.3	62.6	66.2	74.9	81.0	77.4	71.4	58.8	47.5	42.2	58.7	96	3	Apr. 24	Oct. 16
Newport (*e*)	23.5	41.9	45.0	60.8	63.8	73.4	77.5	73.4	66.3	53.3	43.1	36.0	54.8	96	—18		Oct. 16
Nunnelly (*a*)	33.8	42.9	51.8	64.2	65.0	74.0	79.1	76.4	70.5	56.9	47.3	42.3	58.7	97	—5		Oct. 15
Parksville	34.8	46.2	49.6	65.3	64.0	72.4	77.9	74.4	69.6	58.6	50.0	43.1	58.8	95	4		
Pikeville (*a*)									68.4	58.8	47.1						Oct. 15
Riddleton	30.2	41.7	47.0	61.0	64.3	72.6	82.5	74.4	70.9	57.5	48.9	42.2	57.9	93	—4		Oct. 21
Rogersville (*a*)	25.1	41.7	45.2	60.1	61.2	[2]72.6	75.3	71.0	67.6	55.8	44.4	38.4	54.9	92	—13		Oct. 16
Rugby (*a*)	28.0	39.2	43.6	60.2	63.0	71.4	75.8	68.4	60.1	52.8	43.0	37.6	54.1	95	—9		Oct. 15
Savannah (*a*)	35.7	45.6	50.2	65.0	68.0	77.7	81.2	78.9	71.6	58.7	49.0	43.5	60.4	96	—4		
Springdale (*a*)	25.0	43.4	47.4	62.1	65.0	73.2	79.2	[2]74.8	72.6	58.4		39.6		96	—20		Oct. 16
Sweetwater	[1]33.0																
Trenton						74.4	79.6	[1]76.9	70.1	56.6	46.1	[1]39.9					Oct. 15
Tullahoma				62.0	66.0	76.5	82.7	79.1	70.0	55.4							Oct. 15
Waynesboro	31.8	43.2	44.9	60.4	64.4	70.6	76.2	73.8	67.8	55.1	44.9	41.7	56.3	98	—2		Oct. 29
Wier	[2]28.1	40.3	46.6	61.8	64.7	72.9	80.5	74.3	68.8	55.9	45.2	38.9	56.5	96	—5		Oct. 16
Texas.																	
*Abilene	45.6	44.4	55.8	69.8	72.5	80.6	86.3	80.8	79.3	67.1	50.8	51.9	65.3	104	10		Oct. 27
Albany (*a*)	45.6	45.0	55.0	67.6	70.8	81.5	87.7	81.3	78.6	62.9	49.8	49.6	64.5	103	14		

[1] Jas. I. Hall. [2] Cotton region observer.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Texas—Continued.																	
Alice	[a]60.2	61.4	66.8														
[b]Amarillo	39.6	33.0	47.0	55.8	62.0	74.6	77.7	73.0	70.4	57.4	42.6	39.8	56.1	102	4	May 23	
Arlington	45.5	49.7	58.2	70.7	72.3	80.0	85.6	81.7	79.8	67.3	54.1	52.5	66.4	106	16		Oct. 27
Aurora (*a*)	46.8	46.2	55.3	70.2	70.5	[c]77.0		82.8	80.4	67.7	52.3	53.1			15		Nov. 18
Austin [1]	47.8	48.8	59.6	75.8		78.2	85.0	84.8	81.6	70.2	56.3	56.2		102	22		
Austin (*c*) [2]	51.8	53.6	61.3	73.4	75.0	79.9	85.8	84.0	80.4	69.4	56.6	57.4	69.0	99	25		
[d]Belton					67.4	74.1	79.2	75.4	75.2	65.8	56.2						Nov. 16
Boerne (*c*)	45.3	48.1	54.3	68.4	70.9	77.0	81.9	79.5	77.5	64.3	52.4	52.4	64.3	101	22		
Brady	[e]44.6	[b]46.5	56.6	[m]75.6	73.1	80.5	84.3	81.9	78.5	66.2	51.3	51.8	65.9	101	[e]6	Mar. 29	Oct. 27
Brazoria (*a*)	54.4	58.6	61.7	71.3	74.2	78.8	81.4	79.0	78.0	66.6	61.1	60.0	68.8	98	26	Jan. 29	Dec. 4
[d]Brenham	53.0	57.8	63.2	73.9	75.8	80.9	86.2	83.6	81.4	70.2	59.6	58.9	70.4	102	27	Mar. 4	Dec. 7
Brownwood	45.9	49.2	57.8	71.8	74.4	82.7	88.5	83.2	80.2	66.5	50.4			104		Mar. 18	Nov. 16
Burnet (*a*)	49.2	49.9	59.0	71.3	72.8	79.8	86.4	83.6	81.6	67.8	52.3	57.2	67.6	96	22	Mar. 4	Nov. 16
Camp Eagle Pass	50.2	55.2	62.6	78.1	80.1	86.4	88.6	86.8	83.6	70.8	57.6	56.6	71.4	109	22	Feb. 9	Nov.16
Childress (*a*)	39.4	38.2	50.3	65.4	67.1	79.3	83.7	75.0	73.2	57.2	45.0	44.0	59.8	107	6	Mar. 24	Nov. 4
Coldwater	[f]37.8	[f]31.5	[b]42.4		[n]63.2	[k]75.6	[m]79.4	[n]78.2	[d]69.4	53.8		38.9		106	[b]1	May 1	Oct. 7
College Station	53.2	54.2	61.0	73.2	74.8	80.6	85.5	83.9	[e]82.8	68.2	56.9	55.8	69.2	107	25	Feb. 15	Nov. 15
Colorado					77.6	86.6	89.6	85.1						104			
[d]Columbia	53.6	58.6	63.0	73.1	75.8	80.6	83.8	81.4	79.6	68.1	61.6	61.1	70.0	98	27	Jan. 20	Nov.15
[d]Corpus Christi	55.6	58.4	63.8	73.8	75.8	80.9	81.8	81.8	81.1	72.5	62.9	62.0	70.8	95	33	Jan. 20	Dec. 4
Corsicana [3]	47.1	46.4	58.6	71.3	73.0	80.5	87.6	84.2	80.7	(68.0)	[d]55.3	[d]53.3	(67.3)	113	19	Mar. 18	Nov. 15
[d]Corsicana [4]	43.4	45.6	54.3	(68.2)	71.2	78.4	84.2	79.8	77.5	64.1	51.4	50.6	(64.1)	100	18	Mar. 18	Nov. 15
[d]Cuero	54.4	56.8	63.1	75.7	76.6	78.6	81.6	85.7	83.4	72.3	61.2	61.5	70.9	102	26	Feb. 8	Nov.24
[d]Dallas (*a*)	43.7	45.0	55.3	69.7	71.5	79.0	82.4	80.6	78.2	64.2	51.1	50.2	64.2	104	15	Mar. 18	Nov.15
Devine	50.7	54.2	61.6	73.6	75.1	80.1	83.4	[d]81.8	79.8	67.6	57.4	56.1	68.4	102	21	Feb. 8	Nov.15
Duval (*a*)	41.6	52.8	60.2	74.2	76.3	82.9	88.1	85.5	82.9	71.1	58.6	58.5	69.4	107	24	Mar. 4	Nov.24
Eastland (*a*)	45.9	46.6	52.9	65.1	67.2	76.5	86.6	81.4	78.4	67.5	51.0	50.7	64.2	105	12	Mar. 18	Oct. 25
[d]El Paso	46.4	49.6	54.6	66.1	70.8	82.8	81.1	77.9	74.2	62.9	51.2	48.1	63.8	104	18	Mar. 14	Nov. 12
Flower Bluff	59.6	64.0	67.2	75.4	77.7	81.4	83.3	82.8	81.9	70.7	64.2	61.0	72.7	94	32		Dec. 4
Forestburg	44.9	44.4	53.8	65.5	68.2	77.0	85.0	79.2	77.8	62.4	50.3	50.1	63.2	104	14	Mar. 18	Nov. 5
Fort Brown		[e]64.2	69.8	78.1	80.8	82.0	84.1	84.2	83.0	75.6	63.8	64.8		106	27	Jan. 20	
Fort Clark	52.6	56.4	64.6	76.4	78.6	83.2	85.4	84.6	82.5	70.3	58.2	56.5	70.8	107	23	Feb. 16	Nov.15
Fort Hancock	39.2	51.8	56.6	60.6	67.4	79.8	80.0	76.5	70.9	56.4	43.6	40.2	59.8	110	3	May 2	Oct. 2
Fort McIntosh	55.2	60.8	67.9	79.8	80.8	84.4	87.0	86.3	83.0	72.9	61.6	60.8	73.4	105	24	Feb. 8	Dec. 4
Fort Ringgold	56.9	61.5	68.7	79.2	80.9	83.8	82.4	85.5	83.5	74.0	62.8	65.4	73.7	112	26	Jan. 20	Dec. 4
Fredericksburg (*a*)	48.7	50.2	58.6	70.7	[e]74.5	78.7	80.5	81.7	78.8	64.6	[e]52.1	52.0	65.8	102	22		Nov.26
Gainesville	42.9	44.1	54.4	67.4	68.5	76.6		[k]79.6	[e]80.2	65.0	47.0	49.8			14	Mar. 23	Oct. 26
[d]Galveston	53.4	57.6	61.8	71.2	75.7	80.4	84.0	81.9	81.0	72.0	63.7	60.4	70.3	92	37	None.	None.
Graham	44.7	48.8	55.7	70.9	73.2	80.8	88.6	82.6	80.0	64.6	50.4	48.5	65.3	107	12	Mar. 29	Oct. 27
Grape Vine (*a*)	44.4	47.2	58.6	72.3	72.4	80.0	84.6	[e]83.3	82.3	69.5	53.4	53.4	67.8	106	15	Mar. 14	Oct. 27
Hale City (*a*)								75.6	71.7	58.4							Oct. 12
Hallettsville	50.0	52.9	59.4	72.0	73.5	78.2	82.3	79.7	77.8	67.6	58.6	58.3	67.5	104	21	Mar. 18	Dec. 5
Hartley	37.1	32.1	44.3	55.7	64.0	77.1	78.8	74.3	71.9	55.9	41.7	38.0	55.9	106	3	May 8	Oct. 12
Haskell	43.0		54.3	72.2	74.6	85.0	91.4	87.4	83.0	69.2		52.3		109		Mar. 15	Oct. 26
[d]Hearne	51.0				73.9	79.8	85.0	81.2	78.6	70.1	55.1			102			Nov. 15
Highland	46.7	46.8	57.2	71.7	73.2	[k]81.7	88.3	83.4	[e]79.9	[e]66.8	[e]51.3	51.2	66.5	110	13	Apr. 20	Oct. 27
[d]Houston	51.4	57.2	61.4	72.9	75.5	80.2	[k]81.7	80.5	79.3	67.2	59.0	52.4	68.2	99	29	Jan. 2	Nov.16
[d]Huntsville	51.6	54.4	56.0	72.6	75.4	80.3	84.4	81.8	79.4	68.8	[e]58.8	56.2	68.3	100	26	Feb. 7	Nov.13
Llano (*c*)	55.2		61.7	76.7	75.2	83.6	84.4	87.4	85.9	72.8	54.6	55.0		107		Mar. 4	Nov.24
[d]Longview					74.2	80.6	85.6	82.0	78.4	65.8	55.4	54.8		103			Nov.15
[d]Luling	51.8	56.1	60.5	71.8	75.2	81.0	85.4	82.8	80.4	68.8	56.8			104	20	Mar. 31	Nov.24
McGregor	38.7	41.6	44.8	58.1	63.5	69.8	77.3	72.3	69.4	56.3	44.2	38.6	56.2	96	18	Apr. 14	Nov.18
Marshall					76.1	79.6	82.4	79.0	79.6	67.5	54.2	54.6		100			Nov.15
Menardville (*a*)	45.0	46.8	56.8	71.0	72.4	78.7	83.8	81.0	76.7	64.0	49.5	51.0	64.7	101	14	Mar. 18	Nov. 15
Mesquite (*a*)	44.4	45.5	55.3	69.6	70.7	78.0	85.1	80.3	78.8	66.2	51.1			104	18	Mar. 18	Oct. 27
Mountain Spring	45.0	45.5	55.8	69.5	70.4	78.4	84.4	80.8	79.0	65.7	51.4	52.1	64.8	105	14	Mar. 18	Oct. 27
New Braunfels	51.1	53.5	60.6	73.0	73.9	79.6	84.6		[e]81.4	68.8	56.8	57.0			26	Mar. 4	Dec. 25
[d]Orange				68.2	75.0	80.0	83.2	80.6	78.2	66.0	59.8	57.6		96			Dec. 15
[d]Palestine	48.2	50.4	58.0	70.2	72.1	78.9	83.5	80.6	78.8	67.4	55.3	54.4	66.5	100	22	Mar. 13	Nov. 15
Panter (*c*)		[e]41.4	[e]57.8	74.8	73.6	83.7	89.4	81.4	79.4	67.4	[e]51.6			112		Mar. 17	Nov.23
[d]Paris		43.1	51.6	68.5	70.8	78.8	83.4	80.3	78.0	65.3	53.2	51.8		101		Mar. 19	Nov.15
Quanah	41.4	40.4	52.0	66.4	70.4	80.6	86.6	78.6	77.3					111	7	Mar. 20	
Roby	[e]43.4	42.9	52.2		70.0	80.2	[e]86.2	81.6	77.6	[e]65.2	[e]47.4	46.8		111	8		Oct. 26
Rockport (*a*)	52.4	53.0	62.6	71.5	75.4	81.3	84.5	83.9	82.6	72.3	63.9	60.8	69.5	96	30	Jan. 20	
Round Rock	51.6	54.4	61.3	75.3	76.6	82.2	88.2	85.6	78.9		58.4	58.4		105	20	Mar. 18	Dec. 4
[d]San Antonio	53.0	55.6	62.2	74.3	75.2	81.0	85.2	83.8	81.8	71.0	58.8	58.8	70.1	103	26	Feb. 8	Nov. 24
San Antonio [5]	52.8	56.8	62.0	74.0	74.6	80.7	85.0	83.0	81.4	70.0	57.9	57.8	69.7	103	26	Feb. 8	Dec. 15
[d]Sherman					73.0	79.6	85.3	80.8	78.8	66.2	[e]53.4			100			
Sierra Blanca	44.2	51.6	53.7	64.6	68.1	79.6	80.6	75.6	72.1	61.2		47.2		103	14	Mar. 15	Oct. 27
Silver Falls (*a*)	43.2	42.7	53.9	66.1	69.2	79.5	82.4	77.4	75.9	63.0	49.1	46.4	62.4	108	9	Apr. 21	Oct. 25
Stella (*a*)				[g]69.6	75.4	80.2	82.4	81.2	80.3	68.8	62.1	58.9		95			Nov. 15
Sulphur Springs (*a*)	44.3	46.9	55.9	69.1	71.0	80.2	85.0	80.2	78.6	64.5	51.2	51.2	64.9	110	12	Mar. 18	Oct. 16
Tempie	46.6	48.4	57.0	70.6	71.3	78.2	83.5	80.4	79.2	67.6	53.4	53.0	65.8	100	19	Mar. 17	Nov.17
Twohig	[e]55.6	[e]64.0	[g]69.4	[m]82.6			[e]84.6	87.6	[e]84.8						27	Feb. 8	
[d]Tyler																	
Victoria (*a*)	[e]55.2	[e]56.4	[e]64.7	75.1	71.4	78.6	83.2	81.2	78.7	67.0	55.5			98			
[d]Waco	48.7	48.8	59.4	72.3	76.8	78.8		[e]84.4	[e]83.0	[e]73.5	[e]62.4				28	Feb. 7	
[d]Weatherford					73.8	80.4	85.6	82.8	79.9	66.7	55.0	54.4	67.3	102	19	Mar. 18	Nov.15
						82.0	86.6	81.0	79.0	66.4	51.9	50.2		106			Nov.15
Wichita Falls	38.6			69.8	73.6					[e]74.2		[e]59.1					
Utah.																	
Beaver	27.5	21.3	36.8	37.8	55.0	62.2									—4		
Blue Creek (*g*)	22.6	25.6	35.8	51.2	57.8	74.6	87.0	78.4	63.5	48.1	35.2	29.9	50.8				
Castle Gate	31.4	29.9	34.2	44.1	55.0	67.5	70.7	68.5	59.1	47.6	35.1	29.7	47.5	100	1		
Cisco	24.4	34.5	42.3	50.8	62.4	73.0	80.2	75.9	65.7	51.5	34.7	27.9	52.0	104	—10		
Corinne (*g*)	24.0	26.8	38.6	48.6	57.0	76.1	81.2	78.4	68.0	54.1	38.0	31.6	51.9				
Deseret (*a*)	21.4	28.6	40.2	45.0	54.4	64.6	71.9	69.5	59.8	48.7	35.4	31.8	47.8	99	—12		Sept. 22

[1] E. Krueger. [2] Dr. Q. C. Smith. [3] W. H. Hamilton. [4] E. L. Gibson. [5] G. A. Duerler, jr.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Utah—Continued.																	
Fillmore	30.2	31.7	41.4	47.4	57.4	69.5	75.9	73.0	63.8	48.4	38.9	34.6	51.0	106	—5	.....	.....
Fort Du Chesne	.....	.....	.....	.....	.....	73.4	74.3	70.2	61.4	48.4	32.9	30.5	.....	.....	—1	.....	.....
Green River	.....	32.9	43.0	52.3	63.1	73.3	78.5	74.0	63.0	48.9	34.0	.....	.....	105	.....	.....	.....
Grouse Creek (*a*)	9.4	18.2	28.6	38.9	48.0	57.1	65.5	62.6	51.2	39.5	29.9	29.1	39.8	96	—17	.....	.....
Heber (*a*)	19.4	20.3	31.6	[d]41.3	51.8	[c]62.8	[c]68.1	64.4	56.4	[d]44.5	32.5	27.8	43.4	96	—12	.....	.....
Kelton (*g*)	18.8	32.3	39.6	46.3	53.8	70.6	79.8	75.6	59.1	47.6	35.7	35.2	49.0	106	—14	.....	.....
Koosharem	.....	.....	.....	.....	.....	58.7	64.3	61.0	52.3	42.7	29.3	22.8	.....	93	.....	.....	.....
Lake Park	26.2	21.2	38.6	45.6	54.7	65.4	73.2	71.3	61.8	49.4	37.3	35.6	48.4	98	5	.....	.....
Levan (*b*)	21.1	22.0	33.1	42.0	53.7	68.0	71.6	68.3	59.2	46.9	33.6	31.9	46.0	80	—5	.....	Sept. 21
Loa	27.9	23.8	33.3	40.4	50.6	61.0	67.5	63.6	53.2	42.3	29.8	27.4	43.4	96	—13	.....	Sept. 9
Logan	24.4	19.6	[e]26.5	.....	[e]53.8	63.7	[e]72.0	69.0	59.8	49.6	35.7	33.6	44.7	98	—10	.....	.....
Losee	34.2	29.4	33.6	43.1	54.1	65.2	69.1	66.0	54.5	43.6	35.5	30.3	46.9	95	—5	.....	.....
Manti	20.7	23.0	36.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	—18	.....	.....
Moab (*a*)	26.8	33.9	42.8	54.2	64.3	75.6	78.4	71.8	63.5	52.4	36.8	34.2	52.9	103	—2	.....	Oct. 5
Mount Carmel (*a*)	33.8	33.4	37.0	42.8	[c]54.5	60.7	66.2	.....	58.1	46.6	35.3	.....	.....	.....	5	.....	.....
Ogden (*b*)[1]	26.2	.....	37.9	50.3	60.9	74.4	80.1	77.6	63.6	51.2	39.0	37.0	.....	.....	.....	.....	.....
Ogden (*g*)[2]	29.1	28.9	39.1	49.9	60.5	74.9	80.7	79.4	66.3	55.6	40.0	35.3	53.3	100	2	.....	.....
Parowan	34.0	30.3	37.6	[e]45.3	54.0	67.0	72.8	70.5	.....	.....	36.2	34.0	.....	99	5	.....	.....
Promontory (*g*)	20.7	21.4	33.2	43.8	53.8	71.0	76.1	73.2	62.1	47.5	35.7	30.8	47.4	105	—10	.....	.....
Provo City (*b*)	20.9	28.4	37.8	45.8	57.0	.....	76.0	70.0	58.4	45.7	34.5	[f]34.6	.....	84	—2	.....	.....
Randolph (*a*)	.....	.....	20.0	33.9	43.4	56.8	63.4	62.4	51.8	42.0	29.4	24.0	.....	97	.....	.....	.....
Richfield (*a*)	22.6	23.1	36.6	44.6	[c]50.4	.....	71.8	66.8	.....	47.7	35.5	31.3	.....	98	—9	.....	.....
St. George (*a*)	41.2	43.6	50.2	55.8	67.1	79.8	85.6	82.8	72.2	57.5	45.1	40.8	60.4	112	14	.....	.....
[a]Salt Lake City	27.6	28.5	39.3	45.9	55.1	67.0	74.7	73.2	63.0	52.0	39.4	36.3	50.2	99	4	May 27	Oct. 11
Scofield (*a*)	20.6	12.8	22.8	31.2	43.1	[f]49.1	56.8	56.9	44.0	35.4	25.4	22.0	35.3	88	—32	.....	.....
Singletree (*a*)	.....	.....	[c]29.5	40.6	50.4	58.9	62.8	58.8	50.9	40.6	33.1	30.4	.....	91	.....	.....	Sept. 7
Snowville	20.2	18.2	29.8	42.2	51.6	60.6	68.0	67.6	56.8	45.6	32.7	31.2	43.7	93	—7	.....	Sept. 21
Soldiers' Summit	.....	.....	.....	.....	47.0	54.7	60.3	51.3	48.0	40.6	25.4	21.2	.....	93	.....	.....	.....
Stockton (*b*)	21.8	24.2	34.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	—9	.....	.....
Terrace (*g*)	21.7	24.0	35.2	46.9	56.2	70.7	.....	77.1	64.9	49.5	37.1	35.4	.....	.....	.....	.....	.....
Thistle	.....	.....	.....	.....	.....	.....	.....	65.9	56.5	33.5	.....	[e]30.2	.....	110	—4	.....	Sept. 9
Vermont.																	
Brattleboro	14.5	22.3	30.1	42.4	57.2	68.2	69.1	68.6	55.9	51.5	36.6	23.9	45.0	96	—17	.....	.....
Burlington	13.0	18.2	28.3	40.8	57.8	70.8	70.0	70.2	58.6	54.1	39.0	22.1	45.2	88	—12	.....	Oct. 19
Chelsea (*a*)	5.4	12.6	21.7	32.7	49.2	59.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Enosburgh Falls	9.0	14.2	26.4	37.8	54.8	66.8	65.7	65.8	53.2	50.8	34.5	16.2	41.3	89	—32	.....	.....
Hartland	8.2	16.4	25.4	37.2	52.3	63.2	63.6	63.9	50.0	47.6	32.4	17.4	39.8	89	—29	.....	.....
Hyde Park	[c]11.4	15.4	25.4	38.7	55.5	69.0	66.3	[c]66.3	[c]52.8	.....	.....	.....	.....	.....	.....	.....	Sept. 11
Irasburg	.....	.....	.....	.....	.....	.....	.....	[c]64.9	.....	46.6	31.0	14.4	.....	.....	.....	.....	.....
Jacksonville	12.0	20.1	26.4	38.6	53.2	65.2	64.9	64.2	50.7	46.0	30.0	18.8	40.8	98	—23	May 8	Sept. 27
[a]Northfield	5.7	13.7	24.2	36.4	52.6	65.0	63.8	64.6	51.8	47.6	32.8	16.4	39.5	91	—27	.....	Sept. 26
Norwich (*f*)	10.1	16.3	25.0	36.7	51.6	66.8	64.6	60.6	[c]52.1	46.1	31.2	[c]19.5	40.2	90	—27	.....	.....
Saxtons River (*a*)	9.7	18.1	.....	[c]38.4	52.5	66.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Simonsville	9.8	16.3	23.6	35.4	49.4	62.6	62.6	61.7	48.0	44.4	29.6	15.3	38.2	90	—20	.....	.....
South Royalton (*a*)	8.2	16.2	26.0	38.0	51.2	67.2	66.2	66.2	54.2	.....	.....	.....	.....	98	—24	.....	.....
Strafford (*a*)	9.4	15.0	25.2	35.8	52.6	66.2	65.2	65.2	52.8	48.4	33.7	19.5	40.6	86	—15	.....	.....
Vernon (*c*)	9.0	18.0	26.6	43.0	55.4	67.4	68.2	66.0	53.6	48.8	33.0	20.4	42.4	96	—20	.....	Oct. 17
Wells	10.0	15.7	24.9	37.3	53.7	66.4	66.1	66.2	53.7	49.9	33.8	21.2	41.6	92	—18	.....	Oct. 11
Woodstock	7.0	16.8	25.6	38.0	54.0	67.8	65.5	65.7	52.8	48.4	33.1	20.3	41.2	99	—34	.....	.....
Virginia.																	
Alexandria	.....	.....	.....	57.3	63.8	73.2	77.2	74.4	64.9	54.9	45.4	39.0	.....	96	.....	.....	Oct. 30[f]
Ashland (*a*)	25.5	38.1	44.6	57.5	65.2	71.9	76.7	75.1	67.0	55.7	45.7	41.0	55.3	96	—16	Apr. 24[f]	Oct. 16
Avon	26.4	39.2	44.9	55.8	63.9	71.8	.....	.....	66.8	56.6	46.0	41.4	.....	.....	—15	Apr. 6[f]	Oct. 17[f]
Bedford City	27.2	39.0	44.4	56.4	63.0	72.0	78.2	73.4	66.6	57.2	46.8	[d]38.7	55.3	95	— 1	Apr. 24[f]	Oct. 30
Big Stone Gap (*a*)	20.0	38.0	40.4	55.5	58.2	66.2	69.4	66.7	61.5	50.4	39.6	33.8	50.0	93	—26	Apr. 24[f]	Oct. 29
Birdsnest (*a*)	28.6	39.6	43.3	57.5	65.3	74.0	78.3	76.4	68.8	60.4	49.2	44.1	57.2	93	2	Mar. 30	Oct. 17
Blacksburg (*a*)	23.0	36.8	42.5	54.3	[c]59.8	68.6	73.8	67.7	62.6	54.0	41.6	36.2	51.8	92	— 3	Apr. 24[f]	Oct. 17
Cape Charles (*a*)	[f]31.0	40.4	43.8	56.2	64.7	72.2	77.7	74.8	69.8	60.2	48.3	43.8	56.9	98	3	Mar. 30[f]	Nov. 16[f]
[a]Cape Henry	29.4	43.8	44.5	59.2	64.8	73.6	78.0	76.2	71.4	61.4	50.8	48.2	58.4	99	6	Mar. 13[f]	Dec. 7
Charlottesville	26.8	39.4	45.4	57.0	65.0	.....	.....	.....	64.6	[c]55.1	44.9	42.6	.....	.....	—1	Apr. 24	Oct. 17
Dale Enterprise (*a*)	21.4	34.4	41.8	55.1	59.5	72.7	73.6	70.4	64.1	57.2	39.7	37.6	52.3	96	—16	Apr. 24	Oct. 17
Emporia	.....	.....	[b]51.6	.....	.....	.....	85.0	[b]82.3	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fredericksburg	.....	.....	.....	.....	64.0	73.4	77.9	74.8	66.6	55.5	43.4	39.6	.....	100	.....	Apr. 24[f]	Oct. 17
Hampton	.....	.....	[b]45.2	58.7	66.3	73.8	79.2	77.7	71.6	61.8	49.6	44.6	.....	97	.....	Mar. 20	Nov. 15[f]
Hot Springs	22.6	35.3	40.6	51.8	[c]58.4	66.6	70.0	67.7	61.8	52.2	[d]40.9	35.8	50.3	89	—11	Apr. 24	Sept. 22
Irwin	25.4	39.9	45.1	57.8	64.4	72.9	76.8	73.8	62.7	56.0	45.1	41.5	55.2	95	—14	Apr. 24	Oct. 30
Lexington	23.4	37.3	43.1	54.4	62.0	71.0	74.4	71.0	64.4	53.5	41.2	36.6	52.7	98	—11	Apr. 24	Oct. 17
[a]Lynchburg	26.6	39.4	45.4	57.4	64.6	73.6	78.8	74.3	67.4	56.7	45.2	41.8	55.9	97	—6	Apr. 24	Oct. 30
Marion	22.0	40.0	43.0	55.6	60.3	[c]69.1	73.7	70.2	[f]55.2	[f]51.2	43.0	[e]35.6	52.5	93	—16	Apr. 27	Oct. 30
[a]Norfolk	30.4	41.9	45.6	59.6	66.2	73.9	79.0	76.8	70.9	61.8	50.3	45.4	58.5	95	6	Mar. 30[f]	Nov. 16[f]
Nottoway	24.8	38.2	44.3	57.8	65.0	75.3	79.8	75.4	68.6	57.6	45.4	41.2	56.1	104	—14	Apr. 24	Oct. 30
Petersburg	26.4	39.6	47.3	60.0	66.3	74.7	78.4	75.2	69.5	57.9	48.5	44.2	56.7	99	—10	Apr. 24[f]	Oct. 17
Richmond	28.8	40.8	46.8	59.5	65.2	74.0	79.2	75.8	68.4	58.6	47.3	41.2	57.1	102	—13	Apr. 15	Oct. 17
Salem	28.1	40.8	45.8	56.6	63.6	72.0	.....	.....	68.8	57.8	45.7	42.6	.....	.....	1	Apr. 24	Oct. 29
Saluda	27.3	39.8	44.4	57.6	64.2	73.5	77.77	75.7	69.3	58.7	49.2	43.7	56.7	97	—10	Apr. 24[f]	Oct. 17
Spottsville (*a*)	25.5	40.5	44.4	58.9	66.2	74.0	78.5	75.7	68.3	56.3	46.3	41.4	56.3	98	—15	Mar. 30[f]	Oct. 17
Stanardsville	25.4	36.1	43.6	55.0	63.2	72.2	75.8	73.9	66.4	56.5	44.1	39.6	54.3	95	—1	Mar. 30[f]	Oct. 30
Staunton (*a*)	24.3	35.9	41.3	53.2	60.8	69.6	75.0	.....	.....	53.6	41.6	39.0	.....	.....	—6	Apr. 24	Oct. 17
Stephens City	24.2	35.3	42.1	55.8	63.6	74.2	78.2	[c]75.5	66.3	55.2	41.5	38.7	54.2	101	—2	Apr. 24	Oct. 29
Warsaw	26.2	37.8	44.8	59.3	63.5	73.4	77.3	75.5	67.2	57.0	45.5	40.8	55.7	96	—8	Mar. 30[f]	Oct. 17
Wytheville	22.6	37.3	41.6	54.4	59.4	[c]67.4	72.4	68.3	63.2	52.0	41.2	36.7	51.4	98	—5	Apr. 23	Oct. 16
Washington.																	
Aberdeen (*a*)	37.0	34.5	42.4	43.3	49.3	54.0	59.4	63.6	55.7	48.8	43.4	42.8	47.3	93	10	.....	Oct. 22

W. W. Crossman.

[1] Pacific railway system.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Washington—Continued.																	
Blaine	.....	.....	.....	.....	.....	[b]63.4	.....	60.0	53.8	46.6	38.0	39.8	.....	.....	.....	.....	Oct. 14
Bridgeport	.....	.....	.....	.....	.....	[b]63.4	75.6	74.4	65.6	50.2	33.2	28.8	.....	106	.....	.....	Oct. 9
Centerville	.....	.....	.....	46.0	.....	[b]55.0	65.8	.....	57.9	46.1	.....	.....	.....	.....	.....	.....	Sept. 22
Chehalis	36.8	37.3	42.8	44.8	53.7	55.4	62.2	63.5	56.0	.....	41.9	42.1	.....	.....	.....	.....	.....
Clyde	.....	38.9	44.0	49.8	55.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Colfax	27.5	36.5	38.2	44.3	53.0	56.1	63.0	63.6	56.4	44.8	36.2	36.6	45.5	94	—17	.....	Oct. 23
Connell	.....	.....	.....	.....	.....	.....	.....	.....	62.6	49.9	.....	.....	.....	.....	.....	.....	.....
Crystal Springs (*a*)	.....	.....	.....	.....	.....	57.9	64.4	64.4	59.1	50.4	46.1	47.1	.....	.....	.....	.....	.....
Davenport	.....	.....	32.6	43.4	53.0	57.6	65.8	67.4	57.0	44.5	33.4	28.2	.....	98	.....	.....	.....
Dayton	.....	.....	.....	44.7	54.0	58.8	[c]68.0	.....	59.7	49.2	39.1	39.8	.....	.....	.....	.....	.....
*East Clallam[1]	37.4	34.4	40.8	43.2	50.6	53.0	57.7	57.3	52.6	47.2	40.6	43.5	46.4	91	6	Apr. 27	Oct. 18
East Sound	35.8	34.0	44.9	46.8	53.7	57.8	60.6	60.0	55.1	48.2	41.1	42.9	48.7	84	—6	.....	.....
Ellensburg	21.6	20.9	36.2	44.4	53.6	.....	63.6	65.0	55.8	44.2	33.6	32.5	.....	97	—12	.....	.....
Ferry	.....	36.9	44.4	45.5	54.5	56.6	62.2	62.5	56.9	47.6	43.0	41.3	.....	93	.....	.....	.....
*Fort Canby	39.1	39.8	43.9	44.8	50.4	53.6	58.8	59.0	55.0	50.1	45.4	44.2	48.7	82	16	Mar. 9	Nov. 1
Fort Simcoe	24.8	23.1	38.6	45.6	54.5	[c]57.8	65.8	70.6	61.0	47.6	38.0	38.0	47.1	94	—20	.....	.....
Fort Spokane	21.2	22.6	32.6	44.7	54.3	59.4	67.6	68.0	58.7	45.2	32.5	28.6	44.5	102	—29	.....	.....
Fort Townsend (*a*)	35.5	35.9	43.0	43.5	50.2	52.6	58.3	59.3	54.4	46.4	40.1	42.0	46.8	85	—3	.....	Oct. 19
Hunters (*a*)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.0	.....	.....	.....	.....	.....
Lakeside	.....	21.2	34.4	46.9	57.4	61.2	73.0	73.6	59.6	46.9	34.6	31.0	.....	97	—15	.....	.....
Madrone	37.0	37.5	43.1	45.5	53.4	56.4	61.0	60.5	56.1	48.4	41.3	43.1	48.5	86	0	.....	Oct. 23
Moxee Valley	22.0	25.6	39.6	48.5	57.6	62.1	.....	.....	59.0	46.2	.....	34.1	.....	.....	.....	.....	Sept. 21
*Neah Bay	39.4	37.3	43.0	45.6	51.4	54.8	59.0	59.0	54.5	48.0	42.2	45.0	48.3	77	8	Apr. 18	Oct. 22
North Yakima	22.0	25.6	39.6	43.5	57.6	62.1	68.7	.....	59.0	46.2	35.6	34.1	.....	101	—22	.....	.....
Olga (*a*)	35.8	34.6	42.2	44.0	51.7	55.5	59.2	58.6	54.8	48.6	41.0	42.8	47.4	80	—3	.....	Oct. 23
*Olympia	36.4	37.0	42.5	44.8	52.7	54.8	61.0	61.9	55.4	47.0	40.9	42.8	48.1	94	6	.....	Oct. 23
Pine Hill (*a*)	26.8	30.0	40.6	46.1	55.4	59.4	67.4	.....	56.7	46.5	39.5	39.9	.....	.....	.....	.....	Oct. 13
Pomeroy	.....	.....	.....	47.6	55.5	61.0	70.8	74.0	60.0	48.1	40.4	40.8	.....	100	.....	.....	Sept. 22
*Port Angeles	36.0	34.6	40.4	42.8	49.2	52.5	55.8	56.7	52.4	45.9	39.6	41.5	45.6	81	—1	Apr. 19	Oct. 23
*Port Cresent	34.6	31.8	38.6	42.5	49.8	52.4	56.2	56.4	48.4	45.2	38.5	40.0	44.5	82	8	Jan. 27	Nov. 16
Pullman (*a*)	25.6	28.0	36.8	41.7	50.4	55.2	66.0	67.1	55.8	42.4	35.0	35.0	45.0	98	—15	.....	Oct. 13
*Pysht	36.2	.....	42.1	44.4	51.2	54.9	57.8	.....	.....	45.8	38.4	41.4	45.8	77	6	Apr. 4	Oct. 18
Rosalia (*a*)	24.9	23.6	34.4	40.5	50.3	54.4	62.3	63.3	54.2	42.0	33.8	33.8	43.1	96	—20	.....	Sept. 23
Ruby	.....	.....	.....	.....	.....	56.2	65.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Seattle	.....	.....	.....	.....	53.9	57.0	62.8	63.8	57.4	48.5	42.0	43.4	.....	91	28	Mar. 13	Oct. 23
Seattle (*a*)	39.8	39.0	45.8	48.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Oct. 23
Silver Creek (*a*)	35.9	38.2	42.8	45.0	52.5	55.0	61.2	62.7	55.8	47.0	42.4	41.8	48.4	98	22	.....	.....
*Spokane	23.7	22.8	37.2	43.7	53.6	57.6	67.2	68.4	59.2	45.4	34.9	32.4	45.7	99	—19	June 12	Oct. 14
Tacoma	36.8	37.4	43.8	46.0	52.2	56.6	63.0	63.1	56.0	47.6	41.1	41.1	48.7	90	—5	.....	Oct. 23
*Tatoosh Island	39.4	37.7	43.0	43.6	49.4	52.3	55.2	55.3	53.2	48.3	43.3	43.8	47.0	75	7	Apr. 19	Nov. 1
Union City (*a*)	.....	.....	.....	.....	53.4	56.8	64.6	63.0	54.6	47.0	39.8	41.0	.....	.....	.....	.....	Oct. 23
Vashon (*b*)	40.4	40.6	45.7	48.4	55.0	.....	.....	.....	51.6	42.7	36.7	38.4	.....	.....	10	.....	Oct. 22
*Walla Walla	28.8	28.0	43.0	48.7	57.0	62.0	72.2	73.8	62.2	49.7	41.0	41.4	50.6	103	—15	Apr. 8	Oct. 23
Waterville	17.6	16.0	27.6	40.7	51.3	56.0	67.1	67.4	56.4	42.4	29.8	29.8	42.1	97	—30	.....	Sept. 20
West Ferndale	.....	.....	.....	.....	.....	.....	60.6	60.8	55.6	45.6	38.0	39.2	.....	94	.....	.....	Oct. 13
West Virginia.																	
Beverly	.....	.....	.....	.....	.....	.....	.....	.....	.....	54.0	.....	37.7	.....	.....	.....	.....	.....
Bluefield (*a*)	22.0	32.8	41.0	54.0	58.6	66.2	71.0	68.8	63.0	53.2	42.6	37.1	50.9	90	—8	.....	Sept. 29
Buckhannon	21.8	37.0	40.3	54.8	59.2	68.4	71.9	68.7	.....	50.8	40.0	[c]38.5	.....	91	—18	.....	Sept. 29
Central Station (*c*)	24.2	37.2	44.2	58.0	66.2	77.0	80.0	74.4	68.4	[c]56.0	41.4	39.2	55.5	96	—18	.....	Sept. 27
Charlestown	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40.4	37.2	.....	.....	.....	.....	.....
Danville (*c*)	27.0	40.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	—14	.....	.....
Davis	.....	.....	34.0	46.0	52.0	63.0	67.1	[c]63.6	.....	49.8	.....	.....	.....	88	.....	.....	.....
Elkhorn	24.6	40.6	44.0	57.4	60.4	69.4	73.3	70.3	65.5	55.5	44.4	39.7	53.8	92	—14	.....	Oct. 16
Ella (*a*)	19.7	31.4	38.8	51.2	58.1	70.2	73.5	70.3	63.8	54.4	40.4	35.4	50.5	95	—6	.....	Oct. 31
Glenville	20.8	36.0	40.0	55.2	59.5	70.0	73.8	70.0	65.0	54.4	41.8	36.8	51.9	93	—18	.....	Oct. 31
Grafton	22.3	34.9	41.0	54.3	60.0	69.8	73.2	70.2	65.6	55.0	41.4	36.4	52.0	95	—8	.....	Sept. 29
Huntington	24.1	37.2	.....	57.0	.....	.....	.....	72.2	.....	55.0	.....	.....	.....	95	—14	.....	.....
Kingwood (*a*)	19.7	30.8	36.1	48.7	55.2	65.2	68.7	66.0	60.3	51.2	37.8	.....	.....	93	—19	.....	Sept. 29
Marlinton	.....	[c]32.2	39.4	50.6	56.6	67.2	.....	.....	.....	51.6	38.0	32.4	.....	.....	.....	.....	Oct. 17
Martinsburg	23.4	31.8	40.4	51.5	60.2	71.0	74.6	72.2	64.0	52.8	39.6	37.2	51.6	97	—2	.....	.....
Morgantown (*a*)	22.8	36.0	41.6	52.8	.....	71.6	74.5	72.8	.....	55.3	40.3	34.6	.....	105	—4	.....	.....
New Cumberland	24.0	33.0	39.6	50.6	58.6	72.0	73.4	72.0	.....	.....	.....	.....	.....	.....	—6	.....	.....
New Martinsville (*a*)	20.4	33.7	41.0	53.0	58.9	72.0	74.9	71.2	65.1	56.5	42.7	38.3	52.3	98	—12	.....	Oct. 31
Nuttallburg	25.8	40.0	45.4	.....	.....	.....	.....	.....	.....	[c]57.7	48.1	.....	.....	.....	—10	.....	Oct. 29
*Parkersburg	22.2	35.6	41.7	54.7	60.2	72.2	76.1	72.2	67.1	55.6	41.8	37.0	53.0	96	—11	Apr. 16	Sept. 29
Parkersburg[2]	21.9	35.6	42.0	55.5	60.3	70.6	.....	71.4	65.7	54.7	41.5	37.2	.....	93	—9	.....	Sept. 29
Pleasant Hill (*c*)	17.4	27.9	33.4	47.6	58.4	68.0	71.2	[c]69.1	61.6	49.4	36.9	35.4	48.0	91	—8	.....	.....
Point Pleasant (*a*)	23.4	.....	44.7	56.6	61.4	72.7	76.9	72.7	67.7	55.1	42.4	38.2	.....	96	—14	.....	Oct. 31
Sandyville (*a*)	.....	.....	.....	.....	.....	.....	.....	.....	65.3	53.5	40.3	35.9	.....	.....	.....	.....	.....
Spencer	26.3	39.0	39.6	54.8	62.6	72.0	75.4	71.2	62.8	.....	46.1	39.9	.....	98	—25	.....	Sept. 29
Tannery	20.1	32.8	38.9	50.9	58.2	69.8	73.2	72.3	66.4	54.6	39.9	35.2	51.0	95	—10	.....	Sept. 29
Weston	.....	.....	45.3	56.6	62.2	71.9	76.4	72.4	65.9	55.9	41.6	39.2	.....	92	.....	.....	.....
Wheeling	23.8	35.2	44.0	55.4	62.0	74.9	77.7	73.2	67.5	57.2	43.6	38.8	54.4	97	—3	.....	.....
Wisconsin.																	
Amherst	3.2	11.8	23.8	39.4	50.6	67.4	70.8	67.2	59.1	48.7	29.6	12.5	40.3	96	—29	May 8	Sept. 24
Appleton	8.7	13.4	27.6	43.2	52.6	68.4	.....	.....	.....	.....	.....	.....	.....	.....	—18	May 25	.....
Ashland	.....	.....	20.7	34.2	47.2	65.2	68.7	63.0	58.6	.....	.....	.....	.....	96	.....	May 26	Aug. 29
Baraboo	6.8	16.0	28.6	43.2	53.6	69.0	72.9	[c]67.3	60.8	50.9	33.8	17.2	43.3	97	—24	May 18	Sept. 24
Barron	2.2	7.9	19.7	36.2	48.1	67.6	69.2	64.0	55.6	44.8	[c]32.5	.....	.....	97	—38	May 29	Aug. 6
Bayfield	6.6	9.7	21.0	32.8	46.5	62.8	69.2	.....	57.8	44.0	29.0	.....	.....	95	—27	May 25	Sept. 27
Beaver Dam	8.8	16.6	28.5	44.1	50.5	70.0	74.3	71.5	62.0	48.8	32.6	16.2	43.9	92	—20	May 5	Sept. 25
Beloit (*a*)	8.4	17.4	31.7	45.2	54.8	69.8	74.4	69.5	62.9	51.1	33.3	23.0	45.5	95	—29	May 7	Sept. 24

[1] For East Clallam the data are for 24 days in February, 29 in May, 19 in August, 12 in September, 29 in November, and 29 in December.
[2] T. G. Field.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1893—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Wisconsin—Continued.																	
Belleville				42.9	53.0	68.0	72.6	66.4	59.3	48.2	31.9	18.8	.....	96	.....	May 7	Sept. 17
Black River Falls	3.4	11.8	24.1	40.0	51.6	69.6	71.5	66.8	58.8	48.8	30.6	13.4	40.9	99	—36	May 18	Aug. 29
Butternut	—1.0	5.2	16.7	34.0	45.6	.....	66.7	60.5	51.8	42.5	26.0	8.6	.....	95	—38	May 27	Aug. 6
Cadiz (c)	4.7	12.6	27.2	40.0	52.0	65.8	73.4	64.8	56.0	45.5	29.4	20.5	41.0	.....	—24	Apr. 7	Sept. 17
Centralia	4.6	11.8	24.8	39.1	52.6	69.7	71.5	67.6	58.1	49.2	29.0	15.2	41.2	97	—33	May 17	Sept. 2
City Point										44.4	30.3	15.2					
Columbus	6.0	16.6	28.1	45.2	52.5	70.0	72.2	66.0	58.4	50.7	33.1	20.0	43.2	96	—25	May 28	Sept. 17
Crandon	3.0	.....	.....	.....	.....	67.7	67.0	63.2	54.8	45.0	29.0	11.5	.....	100	—32	May 26	Aug. 6
Cumberland	6.2	0.8															
Delavan (near)	7.0	15.5	31.0	45.1	56.4	71.8	76.4	73.5	65.0	51.1	33.5	24.1	45.9	96	—24	.....	Sept. 25
De Pere	6.3	13.0	24.6	40.6	52.0	67.6	70.7	66.5	58.7	.....	.....	.....	.....	94	—26	May 7	Sept. 27
Eau Claire	4.2	9.8	23.2	39.8	52.6	70.0	71.7	66.7	59.2	48.6	30.2	12.3	40.7	97	—29	May 6	Sept. 24
Estella								68.6	60.2	46.8	.....	12.0					
Florence	4.2	11.6	22.2	35.3	46.8	67.3	67.0	62.8	54.4	44.8	28.0	13.6	38.2	96	—32	May 25	Sept. 2
Fond du Lac (a)	5.4	15.0	28.0	41.7	53.2	68.6	71.1	65.9	58.5	49.6	32.5	18.7	42.4	94	—29	May 7	Sept. 24
Grantsburg	6.4	12.0	21.8	36.3	47.8	68.4	68.7	64.4	56.6	50.2	30.6	10.7	39.5	97	—27	May 25	Aug. 29
Green Bay	7.6	13.0	25.2	40.4	52.1	68.4	71.3	66.8	59.3	49.2	33.3	16.6	41.9	96	—22	May 7	Sept. 24
Hammond	5.4	.....	25.8	39.0	52.2	69.4	72.2	67.8	.....	.....	.....	.....	.....	98	—24	May 25	.....
Harvey	6.9	15.4	28.9	42.8	52.8	67.7	72.1	67.8	61.2	50.1	32.0	19.0	43.1	97	—23	.....	Sept. 24
Hayward	.....	.....	20.0	37.6	49.2	69.0	68.2	63.0	55.3	44.0	27.1	7.4	.....	99	—35	May 28	Aug. 29
Hillsboro	3.4	10.9	26.2	40.9	53.0	67.6	71.2	65.2	57.6	48.2	30.6	16.2	40.9	93	—32	May 18	Sept. 2
Hudson	6.4	10.7	.....	39.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	—28	.....	.....
Janesville	8.4	16.4	30.6	43.9	54.6	67.9	71.2	67.2	61.2	49.2	32.8	20.4	43.6	92	—16	May 7	Sept. 22
Juneau	6.2	15.7	28.8	43.2	53.5	68.8	72.3	68.1	61.3	50.2	.....	18.9	.....	96	—26	May 8	Sept. 24
Koepenick (a)	5.5	14.9	26.6	39.0	53.6	71.9	70.4	64.3	57.8	47.3	34.6	15.2	41.8	96	—26	May 25	Sept. 21
La Crosse	5.8	13.9	28.7	43.3	56.0	71.8	74.5	69.8	62.6	52.2	33.8	18.4	44.2	96	—26	Apr. 23	Sept. 25
Lancaster	3.4	11.2	27.6	42.2	54.8	70.6	73.6	68.4	58.6	48.7	31.6	17.6	42.3	94	—24	May 3	Sept. 25
Lincoln (b)	11.0	16.4	24.7	.....	49.4	71.6	73.2	68.7	59.2	48.2	35.4	24.8	43.8	.....	—11	.....	Sept. 25
Madison (a)	7.2	15.0	28.7	42.4	53.0	68.9	73.0	67.6	61.5	50.1	32.6	20.0	43.4	92	—21	May 5	Sept. 28
Manitowoc (a)	12.0	18.8	27.9	38.8	47.8	62.2	67.6	65.2	58.8	47.0	32.1	20.9	41.6	92	—21	May 8	Sept. 24
Meadow Valley	3.8	12.6	25.4	41.2	54.1	70.4	70.3	66.2	.....	.....	.....	16.2	.....	97	—34	May 4	Aug. 28
Medford	4.3	10.8	21.7	36.2	48.8	67.8	69.8	65.2	56.0	45.5	28.3	12.1	38.9	97	—32	May 28	Aug. 29
Menomonie	3.0	10.6	21.2	36.9	50.8	69.6	70.9	64.5	55.6	43.8	26.3	8.5	38.5	101	—37	.....	Aug. 29
Milwaukee	10.4	17.9	30.2	41.7	51.4	65.6	70.8	68.2	62.0	50.4	35.1	22.2	43.8	94	—16	May 6	Sept. 25
Mineral Point	5.6	16.6	30.6	44.1	53.8	.....	.....	.....	.....	52.2	.....	.....	.....	.....	—24	May 22	.....
Neillsville	3.9	10.6	23.7	39.4	51.0	68.9	70.4	64.6	57.3	47.6	29.5	12.9	40.0	94	—36	May 28	Aug. 29
New Holstein	6.0	10.0	23.2	40.6	54.7	68.6	69.2	64.4	58.7	.....	35.3	16.9	.....	93	—26	May 7	Sept. 24
Oconomowoc	7.6	15.2	30.4	44.1	53.5	68.2	72.5	69.6	61.0	51.9	34.9	20.2	44.1	95	—27	May 7	Sept. 24
Oconto	9.6	15.2	26.3	39.4	50.6	66.9	70.4	65.6	57.5	47.9	33.4	18.2	41.8	95	—24	May 8	Sept. 17
Osceola (a)	1.7	7.8	19.9	36.4	50.5	71.8	72.0	68.0	58.6	47.0	29.3	9.6	39.0	104	—40	May 25	Aug. 29
Oshkosh	7.4	14.0	26.8	42.2	52.4	69.2	73.0	.....	60.0	51.5	33.4	17.6	.....	.....	—21	May 7	Sept. 25
Pepin	0.2	8.2	20.6	38.8	.....	70.8	72.8	68.5	62.1	49.0	28.6	14.9	.....	98	—28	.....	Sept. 23
Port Washington	11.1	18.6															
Prairie du Chien	7.2	13.7	30.1	43.8	55.6	71.0	74.6	69.9	63.2	51.6	33.0	18.0	44.3	98	—26	May 4	Sept. 24
Raymond	8.7	15.6	29.8	42.7	51.4	66.6	71.1	66.8	60.5	49.3	33.0	21.0	43.0	96	—19	.....	Sept. 24
Reedsburg (a)	5.6	14.4	27.6	41.9	54.7	68.6	71.8	66.0	59.6	50.2	33.4	18.4	42.7	92	—32	May 28	Sept. 17
Rhinelander	1.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sharon (a)	9.0	17.8	30.7	41.7	53.0	67.5	71.8	67.0	62.6	49.8	32.3	22.4	43.9	96	—18	May 6	Sept. 23
Shawano	10.0	15.5	25.0	38.7	50.8	67.4	69.2	64.8	56.6	52.4	24.0	17.4	41.0	96	—28	May 25	Sept. 24
Shell Lake	3.1	8.1	22.2	37.0	51.2	70.2	71.2	.....	.....	.....	.....	.....	.....	.....	—30	May 25	.....
Sparta (a)	4.1	13.2	26.6	40.9	52.9	69.2	71.8	66.0	58.6	49.3	30.9	16.0	41.6	95	—39	May 6	Sept. 21
Stevens Point	.....	9.4	25.7	41.8	52.8	69.2	70.4	66.2	58.7	49.6	31.6	13.9	.....	95	—35	May 8	Sept. 2
Valley Junction	1.3	9.8	24.8	41.0	52.2	67.2	69.0	63.2	56.8	48.8	31.0	14.8	40.0	92	—37	May 16	Aug. 29
Viroqua	3.0	11.1	25.8	40.0	52.6	68.0	70.8	66.2	60.2	48.8	31.2	16.2	41.2	92	—26	May 25	Sept. 24
Watertown	6.4	13.6	27.6	41.8	51.4	64.8	68.8	66.7	58.6	48.1	32.4	18.5	41.6	93	—28	May 7	Sept. 24
Westfield	6.0	14.1	25.9	42.0	52.8	68.2	72.0	66.5	59.0	48.9	31.2	15.8	41.9	94	—26	May 8	Sept. 24
Weston (c)	3.9	9.6	21.1	37.4	52.8	71.4	71.2	65.2	55.6	45.2	28.0	12.4	39.5	99	—22	May 28	Aug. 29
Whitehall	5.8	9.6	23.2	.....	53.6	70.8	71.8	.....	.....	51.8	34.1	14.6	.....	.....	—40	May 18	.....
Wyoming.																	
Big Horn Ranch (a)	28.0	19.6	23.9	29.8	43.2	53.2	.....	.....	.....	.....	26.7	27.5	.....	.....	.....	.....	.....
Bonanza (a)					53.6												
Camp Pilot Butte	26.0	17.4	27.2	38.0	51.0	62.0	70.0	67.0	56.0	44.0	31.0	26.4	43.0	98	—16	June 7†	Sept. 11†
Casper	27.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cheyenne	32.0	25.2	31.9	38.6	48.3	62.2	68.4	64.2	58.2	46.8	34.8	32.8	45.3	91	—4	June 6	Sept. 23†
Evanston	19.3	.....	27.7	36.4	48.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fort McKinney	28.0	20.0	30.0	38.7	51.0	62.6	70.6	68.7	61.0	46.8	33.0	29.6	45.0	100	—34	May 29†	Sept. 15†
Fort Washakie	29.6	20.7	30.1	37.0	49.4	61.0	67.6	65.6	55.7	44.0	27.0	27.6	42.9	97	—11	May 31	Sept. 14
Fort Yellowstone	16.7	15.6	24.0	31.0	43.0	54.6	.....	.....	.....	.....	.....	24.0	.....	.....	—28	.....	.....
Lander	26.4	19.2	28.3	37.0	49.0	60.1	67.0	63.8	54.9	43.5	29.6	26.8	42.2	95	—19	May 27†	Sept. 13
Lander[1]	29.4	21.0	31.5	36.0	50.0	62.0	69.6	66.0	57.6	45.0	34.0	30.4	44.9	.....	.....	.....	.....
Laramie	26.8	20.7	29.0	34.0	44.0	57.0	64.0	60.7	53.0	42.4	29.0	26.6	40.7	67	—9	June 6†	Sept. 14†
Lusk	25.0	19.0	29.5	38.5	47.6	62.6	71.4	67.7	.....	.....	.....	.....	.....	.....	—22	June 22†	.....
Saratoga	22.0	17.6	28.3	34.7	46.0	58.0	64.6	61.0	50.0	41.0	27.0	25.0	39.6	89	—13	June 4†	Aug. 15†
Sheridan	.....	.....	27.6	37.4	52.0	61.4	69.4	65.4	57.6	44.3	27.0	23.6	.....	102	.....	June 7†	Sept. 11†
Sundance	19.8	.....	21.5	35.0	48.6	62.0	69.0	66.9	57.7	42.0	27.6	24.0	.....	96	.....	May 22†	Sept. 14†
Wheatland	33.4	29.0	36.7	41.0	53.0	66.0	74.0	69.6	63.0	49.0	32.6	33.0	48.4	108	—15	May 20†	Sept. 19†

[1] J. S. Meyers.

PART V.

MONTHLY AND ANNUAL PRECIPITATION.

ALL STATIONS.—1893.

The precipitation values given in the following table have been taken largely from the records of voluntary (unpaid) observers. The paid stations of the Weather Bureau have been indicated by an asterisk (*). Probably two-thirds of the voluntary observers have standard rain gauges, the remainder having gauges similar in pattern to the standard, or, in a few cases, improvised gauges of their own construction.

The bracketed values have been obtained by a comparison of the data for adjacent stations and are to be considered only as an approximation to the true amount.

When two or more observers reside in the same city the reports of all are given. Foot-notes distinguish between the respective observers. The discrepancies between the amounts recorded by the separate observers are often considerable; in general they are due to differences in exposure, although at times one observer may make the last measurement of the month at 6 o'clock a. m., whereas another observer may defer it to 9 p. m., thus causing a difference in the amounts recorded on the last day of the month.

The small roman letters in the body of the table indicate the number of days missing from the records for the months in which they appear.

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Alabama.													
*Auburn	2.03	7.43	2.64	5.88	5.61	4.49	.....	.....	.....	.....	.....	.....	.....
Bermuda	2.11	.....	.....	1.19	4.36	3.70	.....	.....	3.57	4.64	4.15	2.10	.....
Birmingham	.....	.....	.....	2.55	.....	3.25	2.44	4.61	5.67	0.55	2.13	3.06	.....
Brewton	5.35	6.08	4.65	3.80	7.30	3.45	4.25	6.45	3.45	6.35	4.87	4.87	60.87
*Camden	.....	.....	.....	2.80	7.10	3.68	3.48	2.51	3.06	.....	.....	.....	.....
*Carrollton	.....	.....	.....	2.20	8.14	3.94	4.44	3.40	4.44	0.29	2.90	4.85	.....
Chepultepec	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.03	3.57	.....
Citronelle	4.30	4.47	3.76	3.78	7.57	4.67	5.08	3.90	6.63	2.60	4.04	2.50	53.30
*Claiborne Landing	3.51	4.93	1.81	4.57	9.40	3.40	1.10	3.47	3.90	4.30	2.88	1.70	44.97
Clanton	.....	5.56	2.33	2.21	.....	.....	.....	.....	2.66	.....	.....	.....	.....
*Cordova	2.69	6.33	2.27	4.21	7.20	7.96	3.69	1.40	4.14	0.93	3.59	4.35	48.76
Daphne	2.61	4.13	3.66	3.44	6.26	.....	.....	.....	.....	.....	.....	.....	.....
*Decatur[1]	2.49	5.87	3.26	8.41	8.16	5.13	3.68	1.84	.....	.....	.....	.....	.....
*Decatur[2]	.....	.....	.....	.....	8.16	5.11	3.52	1.82	4.01	1.12	1.39	.....	.....
*Demopolis	1.00	7.06	4.37	1.20	9.71	3.05	2.73	4.46	3.84	0.50	[3.00]	[3.85]	[44.76]
Elba	[2.80]	[4.90]	4.97	2.48	6.58	5.43	4.41	7.66	5.03	4.77	3.28	1.68	[58.99]
*Eufaula[2]	.....	.....	.....	.....	5.51	4.16	5.12	8.85	5.09	2.66	3.02	.....	.....
*Eufaula[1]	[2.70]	[4.80]	4.81	1.37	4.92	4.41	7.39	6.86	4.41	2.97	2.32	1.41	[48.37]
*Evergreen	.....	.....	.....	.....	4.71	5.64	3.34	7.05	3.37	5.72	4.55	.....	.....
Fayette	1.95	6.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Florence[3]	2.99	5.73	2.18	9.95	10.28	5.17	2.71	1.21	4.88	0.45	1.95	3.32	50.82
*Florence[1]	1.85	6.08	2.97	7.23	7.77	5.74	2.85	1.72	3.78	0.39	2.31	3.33	46.02
*Fort Deposit	.....	.....	.....	.....	8.10	4.39	4.01	4.63	4.01	3.55	0.73	.....	.....
*Gadsden	3.20	7.67	4.80	5.64	8.72	4.62	2.63	3.07	3.38	1.05	1.70	4.05	50.53
Geneva	2.70	4.80	7.73	[2.30]	4.03	3.09	5.67	6.95	[4.90]	3.51	3.02	2.42	[51.12]
Greensboro	2.42	8.46	3.36	0.88	11.85	3.10	2.20	7.72	3.12	1.28	3.22	5.30	52.91
Healing Springs	5.22	6.11	2.96	3.25	11.47	7.43	12.22	6.82	5.53	3.10	5.20	2.77	72.18
Highland Home	4.78	5.16	3.81	3.64	6.55	4.93	6.18	9.12	3.95	[2.90]	3.16	2.85	[57.03]
Jasper	1.22	6.17	2.43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Livingston[4]	2.06	9.39	3.71	0.91	8.43	3.35	.....	.....	.....	.....	.....	.....	.....
*Livingston[5]	2.38	9.37	3.72	0.73	8.78	5.91	3.89	8.51	6.61	0.77	2.98	6.02	59.67
Lock No. 4	.....	9.56	2.34	3.54	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Lynn[6]	3.13	6.13	3.18	8.06	8.34	5.16	3.82	2.45	4.77	0.60	2.60	5.21	53.45
Lynn[7]	1.82	7.45	3.65	7.63	9.07	3.54	1.84	.....	2.67	.....	.....	.....	.....
Maple Grove	[2.80]	6.87	3.38	6.10	8.20	3.72	1.56	3.83	2.26	1.04	2.73	4.41	[46.90]
*Marion	1.30	5.86	3.13	1.52	10.80	5.04	4.73	2.71	4.03	0.49	1.91	4.34	45.86
Maysville	6.93	11.78	3.98	9.22	6.21	5.66	1.79	4.74	.....	.....	.....	.....	.....
*Mobile	3.17	3.65	3.97	3.72	6.64	6.63	2.84	7.33	11.53	8.56	3.54	1.84	63.42
*Montgomery	3.18	4.92	2.89	4.13	6.93	3.68	6.19	5.72	3.69	1.21	2.65	2.29	47.48
Mount Willing	2.80	4.70	3.64	2.83	9.12	5.46	1.81	3.23	4.35	3.62	3.15	2.15	46.86
Newbern	1.88	7.72	4.34	1.04	8.45	4.93	5.01	5.21	2.60	1.35	3.37	3.80	49.70
Newburg	2.41	4.74	3.07	5.79	6.60	9.06	1.90	3.01	[8]5.14	1.24	2.10	3.50	48.56
Newton	.....	.....	.....	3.67	4.07	.....	4.58	8.74	6.27	4.42	2.87	4.25	.....
*Opelika	.....	.....	.....	.....	5.31	5.26	2.07	5.69	[8]3.63	2.10	1.08	.....	.....
Oxanna	3.08	8.90	3.63	4.18	7.77	5.30	1.91	[4.00]	4.13	1.99	1.37	3.40	(49.66)
*Pine Apple	.....	.....	.....	.....	5.74	3.57	1.46	4.23	4.71	5.16	3.26	.....	.....
*Pushmataha	.....	.....	.....	.....	10.27	3.20	4.48	1.82	5.04	2.31	4.50	4.12	.....
Rock Mills	.....	.....	.....	.....	.....	.....	6.70	8.19	[1]1.19	2.28	2.41	3.24	.....
Scottsboro	1.18	7.33	2.82	7.85	.....	.....	.....	.....	.....	[1]1.43	1.64	3.27	.....
*Selma	3.16	4.90	3.89	3.17	9.48	7.29	5.36	4.21	3.05	2.71	3.10	2.20	52.52
Starlington	.....	.....	.....	.....	.....	.....	.....	6.90	5.30	3.90	2.81	0.90	.....
*Sturdevant	0.88	2.30	1.27	4.73	4.10	3.20	4.80	7.33	4.81	0.37	1.06	1.12	35.97
*Talladega[6]	3.47	9.96	3.11	4.19	6.32	4.70	1.67	6.08	2.48	1.61	2.15	3.86	49.60
Talladega[8]	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.50	1.90	3.55	.....
*Tallassee Falls	3.83	8.10	3.64	4.46	5.79	6.63	1.31	7.26	3.89	2.23	3.06	2.59	52.79
*Thomasville	.....	.....	.....	.....	5.09	2.69	2.80	2.51	6.80	2.96	5.14	.....	.....
*Tuscaloosa	3.08	8.27	4.41	2.61	7.10	6.51	1.68	4.75	3.75	0.87	2.88	4.29	50.00
Tuscumbia[9]	1.47	.....	2.52	8.36	6.54	4.75	2.56	1.72	4.02	0.59	.....	.....	.....
*Tuscumbia[5]	1.53	6.40	2.54	9.13	6.69	6.35	2.29	1.60	4.71	0.57	2.35	3.49	47.65
Union	1.57	10.45	5.75	2.50	13.05	.....	.....	.....	.....	.....	.....	.....	.....
Union Springs[10]	4.82	6.30	2.87	2.63	9.60	3.51	3.96	10.51	2.75	2.97	2.77	1.90	54.59
*Union Springs[3]	.....	.....	.....	.....	10.68	3.25	1.52	11.24	2.84	3.25	2.71	.....	.....
Uniontown	2.19	6.33	4.48	2.40	10.88	4.30	6.11	4.07	2.93	1.92	8.10	3.26	51.97
Valley Head	2.10	7.04	2.80	5.51	5.72	4.24	2.72	1.78	2.89	1.66	1.85	4.46	42.87
*Warrior	2.55	6.86	2.88	5.29	9.08	5.32	1.70	2.07	4.01	1.86	2.55	4.19	48.36
Wetumpka	3.24	4.71	2.39	4.08	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Wilsonville	2.64	8.96	2.78	4.17	6.22	3.72	1.45	6.08	2.51	1.51	2.10	3.23	45.37
Alaska.													
Holy Cross Mission	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.08	0.67	3.57	.....
Killisnoo	8.10	3.70	3.65	3.30	5.35	2.85	8.15	9.90	8.35	9.60	4.10	4.95	72.00
Metlakahtla	14.81	8.97	4.88	3.41	10.84	2.50	7.18	6.87	8.09	12.66	9.69	13.04	102.94

[1] Special river observer.
[2] Cotton-region observer.
[3] Richard Smith.
[4] Prof. J. W. A. Wright.
[5] Cotton-region and special rainfall observer.
[6] Special rainfall observer.
[7] A. M. Weiler.
[8] Prof. J. W. A. Wright.
[9] L. B. Thornton.
[10] P. L. Cowan.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Arizona.													
Antelope Valley	0.67	0.24	4.39	0.00	0.61	0.00	1.95	4.28	0.03	0.01	1.71	1.28	15.17
Apache Maid Ranch												1.11	
Arizola											0.50	0.37	
Arizona Canal Co.'s Dam	0.08	0.00	2.69	0.00	1.12	0.00	1.22	1.45	1.32	0.43	0.46	0.76	9.53
Benson	0.00	0.00	[0.92]	0.00	0.76	0.00	2.88	3.03	0.12	0.00	0.00	0.00	(7.71)
Bisbee	0.03	0.88	2.05	0.00	0.52	0.00	5.20	4.15	1.71	0.05	0.00	0.20	14.79
Buckeye			1.60	0.00	0.50	0.00	0.70	1.50	0.10	0.40	1.60	0.30	
Calabasas	T.	0.72	1.53	0.00	0.00	0.00	3.04	2.73	1.76	0.00	0.35	0.15	10.28
Casa Grande	0.06	0.00	1.87	0.00	0.07	0.00	1.72	0.95	0.00	0.00	0.00	0.25	4.92
Chiricahua Mountains	0.45	1.08	2.40	0.00	1.76	0.29	3.87	10.98	0.00	T.		0.05	
Crittenden	0.16	1.06	2.63	0.00	[0.44]	0.00	5.10	5.68	0.97	0.05	0.49	[0.28]	(16.86)
Dragoon	0.29	0.77	0.93	0.00	1.40	0.00	3.31	4.49					
Dragoon Summit	0.00	1.44	1.15	0.00	1.62	0.00	3.92	3.19	1.13	0.00	0.00	0.40	12.85
Dudleyville	0.55	0.40	1.93	0.00	1.37	T.	0.71	1.38	0.33	0.01	1.10	0.50	18.37
Eagle Pass				0.00	0.69	T.						0.51	
Farleys Camp	0.65	0.00					3.62	4.27	0.00	0.25	1.50	0.60	
Flagstaff	1.92	1.50	6.75					[0.66]	0.40	0.03	1.70	1.80	
Florence	0.24	0.04	2.33	0.00	0.29	0.00	3.03	1.34	1.47	[0.03]	0.43	0.43	(9.63)
Fort Apache	0.28	1.10	2.45	0.00	2.18	0.00	2.57	3.43	2.65	0.01	0.28	0.10	15.08
Fort Bowie	0.40	0.80	2.70	0.00	0.50	0.00	3.69	3.41	1.06	0.04	0.07	0.25	12.72
Fort Grant	0.56	0.59	1.26	0.00	0.58	0.00	4.24	2.00	3.87	T.	0.40	0.35	13.85
Fort Huachuca	0.13	0.80	2.21	0.00	0.26	T.	4.42	8.99	2.62	0.08	0.37	0.28	20.16
Fort Mohave	T.	T.	1.09	0.00	0.26	0.00	0.17	T.	0.00	0.02	0.28	[0.69]	[2.51]
Gila Bend [1]	0.00	0.00	1.70	0.00	0.40	0.00	1.45						
Gila Bend [2]	T.	0.00	1.94	0.00	0.40	0.00	1.20	1.79	0.14	0.20	1.25	0.19	7.11
Holbrook	0.10	0.02	0.44	0.00	1.39	0.04	1.65	2.76	0.95	0.03	0.30	0.08	7.76
Lochiel	0.00									0.00	0.63		
Maricopa	1.26	0.00	1.14	0.00	0.84	0.00	0.68	0.50	2.08	0.00	0.30	0.00	6.60
Mount Huachuca	0.32	0.82	2.54	0.00	0.66	T.	4.46	4.84	2.33	0.06	0.25	0.36	16.58
Natural Bridge	0.96	1.20	4.29	0.00	1.95	0.00	2.43	4.99	2.03	0.35	1.40	1.06	20.66
Nogales	0.10												
Oracle				0.00						0.05	0.78	0.68	
Oro	1.14	0.58	0.80	0.00	1.80		3.93	2.47	1.26		T.	0.27	
Palomas	0.00	0.00	0.67	0.00	0.80	0.00							
Pantano	0.00	0.25	0.70	0.00	0.50	0.00	1.55	0.15	0.00	0.00	0.00	0.20	3.35
Parker										[T.]	1.00	0.49	
Payson	1.05	0.60	5.95	0.00	1.70	0.00	0.97	2.75	3.41	0.40	1.87	0.60	19.30
Peoria	0.12	T.	1.71	0.00	1.47	0.00	1.56	1.42	0.35	0.15	0.08	0.03	7.49
Phœnix [3]	0.00	0.00	0.46	0.00	1.00	0.00	3.20	[1.42]	0.00	0.00	0.60	1.00	[7.68]
Phœnix [4]												0.64	
Red Rock	0.10	0.85	1.40	0.00	T.	0.00	3.05	2.95	0.40	0.00	0.50	0.00	9.25
Reymert	0.56	0.60	4.42	0.00	0.78	0.00	2.76	3.34	1.32	0.03	1.00	0.57	15.38
Rye	0.50	0.03	3.96	(0.00)	1.50	0.00	1.08	2.42	3.79	0.15	1.52	0.43	[15.32]
St. Helena Ranch				0.00	0.36	0.00	4.53	5.82	1.03	0.00	0.39	0.31	
San Carlos	0.50	0.55	2.96	0.00	0.67	0.00	0.80	3.78	2.56	0.00	0.34	0.37	12.53
San Simon	0.00	0.00	1.40	0.00	0.00	0.00	1.11	2.22	0.92	0.00	0.00	0.00	5.65
Show Low	0.41	1.16		0.00		0.00	1.16	2.13	3.25	0.20	T.	0.35	
Signal	0.23	T.	2.29	0.00	0.60	T.	0.78	1.86	1.15	0.09	1.52	0.94	9.48
Teviston	0.00	1.42	0.03	0.00		0.00		1.01	1.20		0.00	0.00	
Texas Hill	0.00	0.00	[1.50]	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	[1.90]
Tombstone							4.01	3.75					
*Tucson	0.27	0.82	1.16	T.	0.75	0.00	2.78	5.40	1.02	0.00	0.43	0.49	13.12
Tucson [5]	0.27	0.88	1.16	T.	1.09	0.00	2.44	5.65	0.96	T.	0.40	0.41	13.26
Tucson [2]	0.25	1.31	1.02	0.00	0.95	0.00	2.52	2.74	0.40	0.00	0.36	0.27	9.52
Walnut Grove	0.08	0.08	3.12	0.00		0.00	1.66			0.03		0.12	
Walnut Ranch	T.	0.96	1.67	0.00	0.61	0.00	2.53	5.25	2.82	0.13	T.	0.48	14.65
Whipple Barracks	1.18	0.47	3.26	0.00	0.88	0.00	1.31	4.30	0.57	0.15	1.16	0.73	14.01
Wilgus	0.15	1.10	1.90	0.00	0.35	0.10	6.47	4.29	2.75	T.	0.05	0.40	17.56
Willcox	0.00	0.10	0.79	0.00	0.50	0.00		1.03	0.93	0.00	0.00	0.00	
Winslow	0.10												
Wood Canyon	0.70	2.50					6.00	7.00					
Yuma	T.	T.	1.29	0.00	0.29	T.	0.50	0.38	0.08	0.01	0.19	0.26	3.00
Yuma [2]	T.		1.53	0.00	0.31	0.00	0.40	0.42	0.30	0.00	0.30	0.11	
Arkansas.													
*Arkadelphia	0.75	5.42	3.99	5.88	10.20	4.44	3.06	5.68	0.71	1.43	5.38	1.68	48.62
*Arkansas City	3.05	4.84	2.04	4.33	5.77	6.61	2.30	5.75	3.25	0.25	5.00	2.25	45.44
Ashdown	[0.50]	[3.60]	[4.50]	7.42	10.36	4.48	2.30	2.24	2.36	1.17	4.79	1.38	[45.10]
Bee Branch	0.90	[2.40]	[3.30]	6.82	11.59	5.30	1.55	2.45	6.87	0.45	3.10	0.90	[45.63]
Blanchard Springs											7.13	2.00	
*Brinkley	1.60	4.32	4.83	7.48	15.20	4.31	4.11	2.84	3.70	2.95	4.66	2.52	58.52
Camden [6]	0.95	4.20	4.41	7.57	7.81	10.24	3.73	1.28		0.65		1.98	
*Camden [7]	1.97	4.02	4.43	4.64	10.80	10.94	2.85	2.77	2.64	0.53	6.65	1.85	54.09
Conway	1.00	2.06	2.88	7.45	11.32	3.77	1.40	1.27	4.25	1.55	2.37	0.75	40.07
Corning	0.32	3.28	2.89	10.21	6.35	3.84	2.80	0.96	5.13	3.43	2.55	2.05	43.80
Dallas	0.82	2.88	3.97	5.48	10.00	5.22	3.55	4.62	3.86	1.72	4.22	[1.90]	[47.34]
*Dardanelle	0.30	2.34	3.02	4.33	12.25	3.27	3.55	2.15	6.52	2.30	3.31	0.86	45.20
Eldorado	0.50												
Fayetteville	0.74	4.78	2.11	11.73	10.96	8.84	4.58	5.90	3.68	1.03	2.91	1.92	58.48
*Forrest	1.89	4.95	4.37	5.11	15.44	7.00	4.40	2.20	6.19	0.82	3.31	2.49	58.17
*Fort Smith	1.09	3.11	2.28	7.89	7.61	4.52	2.68	3.87	5.28	1.57	3.61	1.09	44.70
*Fulton	1.00	1.90	4.36	4.02	10.18	5.74	0.77	2.22	3.56	0.71	4.20	1.00	39.60
Gaines Landing	1.40	5.16	2.03	5.58	5.82		2.22	4.47	2.40	1.48	5.81	2.77	
Hamburg					5.91	7.74	3.39	9.40	0.91	0.39	6.50	2.72	
Harrison	1.40	3.54	3.54										
*Helena [7]	3.29	5.31	3.78	9.66	16.68	6.96	5.31	2.14	7.18	0.50	4.98	3.48	69.24
*Helena [8]	1.76	4.75	2.85	9.18	14.75	5.88	3.82	2.17	6.10	0.44	4.71	3.06	59.47

[1] D. Murphy.
[2] Pacific Railway System.
[3] Maj. T. W. Hine.
[4] Agricultural experiment station.
[5] E. L. Wetmore.
[6] A. L. Morgan.
[7] Special river observer.
[8] Cotton region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Arkansas—Continued.													
Hope	0.50	3.01	4.88	6.09									
Hot Springs	2.56	4.78	4.90	7.61	10.10	5.60	6.82	3.26	2.05	1.65	4.48	2.05	55.86
Jonesboro				8.21	10.03								
Keesees Ferry	0.50	4.20	3.75	8.33	5.27	5.60	4.75	3.02	4.03	0.92	2.51	2.20	45.08
Kirby	1.20	4.30	3.50	7.93	5.21	6.80	3.70	3.05	1.47	2.25	4.90	1.50	45.81
*Little Rock	0.83	5.48	4.47	5.83	13.25	4.76	2.32	2.32	2.18	1.58	3.79	1.67	48.48
Lonoke	2.05	5.19	5.03	7.00	19.88	7.56	2.25	2.81	2.12	0.50	4.50	2.14	61.03
Madding	1.10	6.63	5.21	11.14	10.00	6.98	1.31	4.62					
*Malvern					7.43	3.18	2.41	3.43	0.97	0.94	5.10		
Marcella					8.87	5.28	4.82	0.93	8.27	1.38			
Marshall							2.95	5.70	7.00				
Melbourne	0.50	2.34	2.59	7.92	7.34	4.21	4.29	0.70					
Mount Nebo	1.35	3.70	4.25	7.65	11.11	3.75	2.40	1.88	5.92	0.97	3.14	1.10	47.22
New Gascony	1.00	5.64	3.56	7.55	8.46	5.35	2.73	3.37	3.11	[0.90]	5.18	2.48	(49.33)
*Newport [1]	1.22	3.82	3.43	8.21	9.13	3.32	4.35	2.44	6.57	1.95	3.24	1.28	48.96
Newport [2]					[5.87	2.49	3.84	1.80	6.67	1.97	3.21	1.27	
*Newport [3]	0.86	3.09	4.11	9.32	8.36	2.96	4.33	2.56	6.14	1.88	3.79	0.99	48.39
Osceola	0.32	5.85	2.53	5.05	15.16	6.10	0.69	0.65	6.09	1.86	4.77	2.52	51.59
Ozark	0.76	2.80	[2.00]	[7.50]	[7.30]	4.39	0.51	3.85	6.17	1.47	2.90	1.16	[40.90]
*Pine Bluff	1.10	4.15	2.67	7.59	6.19	6.60	[2.00]	[3.26	2.36	0.35	5.18	±2.79	[44.24]
*Prescott	0.65	3.64	4.57	[5.80]	10.07	4.40	1.64	1.79	2.10	0.25	4.86	[0.80]	[40.57]
Rison						4.60	3.01	3.09	2.96	0.89	5.73	1.69	
Rogers	1.09	4.10	2.72	13.22	7.23	1.14	7.31	4.33				2.59	
*Russellville	1.70	2.64	3.88	7.42	11.46	3.35	2.60	2.02	7.08	1.88	3.86	1.20	49.09
Searcy	0.95	4.00	3.26	10.04	10.77	5.76				1.63	6.14	2.41	
Stuttgart	0.67	4.83	4.68	7.38	9.55	7.53	2.14	2.97	3.66	0.49	4.48	3.27	51.65
*Texarkana [4]	0.62	0.07	2.17	4.33	5.97	5.21	2.30	1.88	1.93	1.03	2.24	0.65	28.40
Warm Springs	0.15	2.80	2.55			2.83	2.75	0.67					
Warren	1.50	2.55											
Washington	0.69	3.83	4.71	6.17	11.00	7.10	2.25	1.17	2.45	0.56	5.33	1.17	46.43
Wiggs					8.19	4.46	2.93	5.50	1.25	2.10	4.80		
Winslow	0.86	2.92	2.50	10.52	7.23	6.67	2.19	7.19	5.01	2.84	2.60	1.30	51.83
California.													
Agnew	3.13	1.94	5.17	0.67		0.00	0.00				0.90	1.97	
Alcalde	0.51	1.88	1.99	0.62	0.00	0.00	0.00						
Anaheim	2.98	2.06	6.07	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.30	2.36	14.02
Anderson	3.44	3.63	9.01	3.65	1.54	0.00	0.14	0.00	2.22	0.75	6.38	3.19	33.95
Antioch	2.93	1.88	2.64	1.02	0.41	0.00	0.00	0.00	0.02	0.06	2.18	1.63	12.77
Aptos	3.40	3.41	7.97	1.54	0.42	0.00	0.00	0.00	0.22	0.33	3.16	3.48	23.93
Arcata	4.75	6.26	10.68	7.21	2.31	0.15	0.00	0.00	3.01	4.82	11.90	7.52	58.61
Arlington Heights	2.71	1.43	4.83	0.35	0.05	0.04	0.08	0.00	0.03	1.00	0.28	1.38	12.19
Athlone	1.04	2.83	3.26	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.45	1.74	9.85
Auburn	5.33	4.74	9.20	3.71	0.78	0.00	0.00	0.00	0.70	1.11	5.32	3.88	34.77
Bakersfield [5]	0.61	0.88	2.30	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.97	5.28
Bakersfield [6]	0.70	0.76	1.25	0.10	0.00	0.00	0.00	0.00	0.00	T.	0.33	0.89	4.03
Ballast Point light-house	1.25	0.45	5.55	0.10	0.20	0.00	0.00	0.00	0.00	0.20	0.85	2.05	10.65
Barstow	0.11	0.27	0.77	0.06	T.	0.00	1.10	0.00	0.00	0.22	T.	0.72	3.25
Bear Valley Dam											0.02		
Beaumont	2.97	2.66	9.67	0.40	0.00	0.00	0.00	0.18	0.00	1.45	0.00	4.34	21.67
Berendo	1.05	1.80	3.15	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.20	1.03	7.65
Berkeley	3.90	3.28	6.19	1.62	0.26	0.00	0.00	0.00	0.38	0.52	5.22	2.62	23.99
Biggs	2.47	3.46	4.53	0.69	1.81	0.00		0.00					
Bishop Creek	1.22	1.12	0.15	0.00	0.00	0.00	1.05	T.	0.19	0.00	0.10	0.49	4.32
Boca	4.55	8.90	4.00	1.90	1.35	0.00	0.00	0.05	0.55	0.25	2.42	3.70	27.67
Borden	0.99	2.07	3.17	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	7.81
Boulder Creek	10.04	9.57	16.91	3.49	0.65	0.00	0.00	0.00	0.57	0.54	0.60	4.59	49.96
Brentwood	3.35	2.55	2.75	0.95	0.40	0.00	0.00	0.00	0.00	0.00	2.08	1.60	13.68
Brighton	2.91	2.50	2.55	1.00	0.60	0.00	0.00	0.00	0.20	0.00	2.96	2.19	14.91
Byron	2.57	2.34	2.43	[0.90]	0.38	0.00	0.00	0.00	0.00	0.00	1.50	1.33	(11.45)
Caliente	1.00	2.15	3.71	0.79	0.00	0.00	0.00	0.00	0.00	0.10	0.20	3.45	11.31
Calistoga	5.35	8.37	9.91	3.21	0.86	0.00	0.00	0.00	0.85	0.51	6.93	4.40	40.39
Campo Seco	3.55	3.65	7.19	1.54	0.41	0.00	0.00	0.00	0.57	0.11	3.38	2.08	22.48
Cape Mendocino light-house		2.04	8.38	3.50	2.02	0.00	0.00	0.00			1.96	4.61	
Castroville	1.71	2.78	6.09	1.55	0.15	0.00	0.00	0.00	0.13	0.05	1.09	1.99	15.54
Centreville	2.65	2.73	5.58	1.67	0.47	0.02	0.00	0.00	0.14	0.23	2.44	2.69	18.62
Chico	5.54	4.14	5.46	1.63	1.34	0.00	0.00	0.00	0.67	0.00	3.53	3.18	25.49
Chino	3.36	2.81	7.43	0.33	T.	0.00	0.26	0.00	T.	1.47	0.61	3.92	20.19
Cisco	3.20	8.50		0.00	1.60	T.	0.00	0.00	0.00	0.00			
Citrus	0.53	1.70	0.30	0.00	0.00	0.00	0.40	0.00	0.00		0.05	0.41	
Claremont	6.50	3.69	9.22	0.54	0.17	0.00	0.20	0.00	0.00	0.94	1.31	4.17	26.74
Cloverdale	5.25	6.63	11.46	3.94	1.10	0.00	T.	0.00	2.07	0.96	6.64	4.71	42.76
Colegrove	6.74	2.22	7.72	0.25	0.04	0.00	0.00	0.00	0.00	0.78	0.11	4.88	22.74
Colfax	7.62	5.68	12.80	4.22	1.30	0.00	0.00	0.00	0.85	1.23	0.32	5.08	48.10
Colton	2.40	2.91	6.04	0.16	0.00	0.00	0.30	0.00	0.00	1.18	0.22	1.93	15.74
Colusa	3.29	1.28	1.96	0.71	[1.43	0.00	0.00	0.00	0.04	0.05	1.12	1.17	11.05
Corning	2.42	3.00	5.00	1.80	0.22	0.00	0.00	0.00	0.22	0.00	2.60	2.22	17.48
Covelo	1.60	6.96	7.95	4.08	2.08	0.00	0.00	0.00	1.22	1.22	9.41	6.52	41.04
Crescent City	3.76	8.09	13.03	12.12	3.60	0.91	0.03	0.00	5.22	6.22	13.10	10.14	76.22
Crescent City light-house	3.45	7.72	12.57	13.78	3.47	1.25	0.00	0.00	5.42	6.25	13.05	10.18	77.14
Crofton	2.73	2.88	6.80	0.67	0.38	0.00	0.18	0.00	0.76	0.95	0.66	3.08	19.09
Davisville [5]	3.43	4.09	4.32	0.85	1.56	0.00	0.00	0.00	0.00	0.10	2.97	2.01	19.33
Davisville [7]	3.57	2.83	3.94	0.84	0.82	0.00	T.	0.00	T.	0.04	2.28	1.86	16.18
Delano	0.59	1.10	2.42	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.30	1.33	5.98
Deep Creek									1.95	1.19	1.20	4.16	
Delta	3.17	2.10	11.90	8.90	3.30	0.00	T.	0.00	2.85	0.15	8.05	3.60	44.02

[1] Special river observer. [2] Cotton region observer. [3] Pacific Railway System. [4] A. C. Hillman.
[5] Geo. B. Irby. [6] Exposure faulty. [7] G. F. Weeks.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
California—Continued.													
Dinuba								T.	T.	T.	0.27	1.74	
Downey	4.63	2.58	8.75	0.22	0.07	0.00	0.25	0.00	0.00	0.77	0.47	3.13	20.87
Drytown	4.59	3.69	9.15	2.11	1.57	0.00	0.00	0.00	[1.20]	[0.60]	4.07	2.70	[29.68]
Duarte	8.98	3.62	11.20	0.74	0.48	0.05	0.42	0.00	0.04	1.05	0.37	4.63	31.55
Dunnigan	3.46	3.64	4.64	0.94	0.69	0.00	0.00	0.00	0.00	0.00	1.60	1.30	16.27
Dunsmuir	3.65	6.40	13.30	6.75	4.06	0.00	0.20	0.00	3.27	1.15	11.35	5.08	57.21
East Brother light-house	3.08	1.20	2.14	0.62	0.14	0.00	0.00	0.00	0.00	0.22	0.00	0.74	8.74
Edgwood	0.95	0.20	2.90	3.48	0.95	0.30	0.66	0.00	1.51	0.76	2.65	0.85	15.21
Edmanton	1.47	13.07	13.80	8.43	3.23	0.16	T.	0.00	1.79	1.27	9.46	4.40	67.17
Eldorado	5.40	2.56	8.02	3.13	1.51	0.00	0.00	0.00	1.14	0.65	4.58	4.26	31.25
Elmira	4.71	2.85	[4.40]	0.90	0.76	0.00	0.00	0.00	0.16	0.18	3.02	1.76	[18.74]
El Verano	4.91	4.29	8.52	1.76	0.56	0.00	0.00	0.00	0.92	0.35	6.87	3.28	31.56
Emigrant Gap	5.50	6.38	10.05	5.71	0.69	0.00	0.00	0.00	1.20	2.00	5.95		
Esparto	3.92	3.93	3.14	0.50	0.53	0.00	0.00	0.00	0.02	0.07	2.05	1.68	15.74
*Eureka	3.65	6.27	10.59	7.16	2.43	0.33	0.00	0.00	2.89	4.33	9.87	6.89	53.71
Evergreen	2.72	2.20	5.75	1.46	0.49	0.00	0.00	0.00	0.02	0.09	1.05	1.49	15.27
Exeter	1.10	1.90	3.85	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.98	8.22
Fall Brook	3.40	3.72	8.06	0.49	0.29	0.00	0.13	0.00	0.06	0.86	1.46	3.58	22.05
Farmington	3.27	2.41	6.16	0.92	0.40	0.00	0.00	0.00	0.46	0.00	2.19	1.65	17.46
Felton	6.97	5.88	12.52	1.99	0.50	0.00	0.00	0.00	0.40	0.68	4.15	3.99	37.08
Fernando	2.63	3.67	6.93	0.56	0.08	0.00	0.00	0.00	0.00	0.61	0.05	2.23	16.76
Florin	3.41	2.34	2.77	1.19	0.75	0.00	0.00	0.00	0.31	0.00	2.03	1.75	14.55
Folsom City[1]	4.43	3.05	6.86	2.04	0.77	0.00	0.00	0.00	0.51	0.63	4.22	2.53	25.04
Folsom City[2]	4.42	2.93	6.93	2.00	0.72	0.00	T.	0.00	0.43	0.23	3.94	2.56	24.10
Fort Bidwell	2.60	2.92	1.60	1.88	1.66	0.01	0.50	0.05					
Fort Ross	7.19	7.89	15.52	5.22	1.01	0.00	0.00	0.00	1.49	0.80	15.07	8.20	62.19
Fouts Springs	2.08	7.11	5.17	1.95									
French Corral				3.61	0.73	0.00	0.00	0.00	1.23	1.06	6.05	2.90	
Fresno[1]	0.74	1.75	3.09	0.27	0.00	0.00	0.00	0.00	0.00	T.	0.13	0.93	6.97
*Fresno	1.04	2.21	4.22	0.54	T.	0.00	T.	0.00	0.01	0.02	0.18	1.40	9.40
Fruto	2.70	3.80	6.40	1.00	0.80	0.00	0.00	0.00	0.22	0.00	2.80	1.50	19.22
Galt	3.42	2.89	4.49	2.18	0.62	0.00	0.00	0.00	0.16	0.00	3.52	1.49	18.77
Georgetown	8.44	8.20	17.69	6.34	1.51	0.00	T.	T.	2.06	1.60	10.94	7.19	63.97
Gilroy	3.11	4.34	[4.80]	1.35	0.32	0.00	0.00	0.00	0.06	0.02	0.72	1.87	[16.59]
Girard	1.21	3.47	3.43	0.35	0.00	0.00	1.00	0.00	0.00	0.12	0.00	3.90	13.48
Glendora	11.70	4.63	14.56	0.08	0.54	0.00	0.00	0.00	T.	1.24	0.20	4.93	38.08
Glen Ellen	6.88	6.49	11.64	2.30	0.56	0.00	0.00	0.00	0.93	0.51	7.50	5.28	42.09
Gormans Station											0.12	5.13	
Goshen	0.00	0.00	2.95	0.35	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.32	4.62
Grass Valley[3]	7.31	6.83	12.40	5.80	1.30	0.00	T.	0.00	1.64	1.49	8.77	5.55	51.09
Grass Valley[4]	7.02	6.35	11.93	5.30									
Green Valley									2.31	1.06	2.33	5.82	
Gridley	4.37	3.65	5.24	1.06	2.10	0.00	T.	0.00	0.58	0.35	4.41	2.74	24.50
Guinda	[4.00]	4.30	4.10	1.16	0.65	0.00	0.00	0.00	0.38	0.27	1.60	1.00	[17.46]
Haywards	2.31	2.56	5.20	1.15	0.12	0.00	0.00	0.00	0.25	0.23	3.83	2.67	18.32
Healdsburg	4.12	7.62	8.75	3.24	1.02	0.00	0.00	0.00	1.37	0.42	5.56	3.50	35.60
Hendersons Ranch							0.04	0.23	0.22	0.98	0.00	4.63	
Hollister	1.50	2.87	4.25	0.98	0.32	0.00	0.00	0.00	0.11	0.04	0.77	1.98	12.82
Hornbrook	1.95	1.15	0.30	1.50	1.20	T.	0.95	0.00	0.80	1.00	4.17	3.33	16.05
Humboldt light-house	5.14	4.75	9.59	5.39	2.08	0.47	0.00	0.00	3.13	4.02	9.37	5.63	49.57
Huron	0.00	0.95	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.22	4.32
Hyde Ranch	3.29	2.28	3.29	1.22	0.00	0.00	0.00	0.00	0.00	0.00	1.85	1.80	13.73
Hydesville	3.93	5.21	10.26	5.61	2.18	0.32	0.00	0.00	2.54	3.23	7.22	4.79	45.29
Independence	1.51	2.91	0.98	0.02	T.	0.00	0.77	T.	T.	0.00	0.10	0.75	7.04
Indio	0.03	0.00	1.60	0.00	0.00	0.00	0.05	0.75	0.07	0.00	0.14	T.	2.64
Ione	3.30	1.22	5.70	0.23	0.39	0.00	0.00	0.00	0.29	0.13	3.14	1.80	16.20
Iowa Hill	6.91	5.80	12.94	6.69	1.44	0.00	T.	0.00	1.81	1.35	8.30	5.37	50.61
Irvington			5.87	1.82	0.55	0.00							
Jackson						0.00	0.04	0.00	1.34	0.50	5.28	3.35	
Jolon	3.33	3.29	5.30	1.35	0.32	0.00	0.00	0.00	0.00	T.	0.15	2.31	16.45
Julian	3.76	3.72	14.42	0.66	0.62	0.00	1.65	0.41	0.03	2.20	3.25	4.00	34.72
Keeler[1]	0.71	0.75	1.50	0.00	T.	0.00	1.41	T.	T.	T.	0.03	1.48	5.88
*Keeler	0.71	0.73	0.84	T.	T.	0.00	0.41	T.	T.	T.	0.12	0.78	3.59
Keene	2.20	3.26	6.70	1.30	T.	0.00	1.05	0.00	0.14	0.35	0.18	1.50	16.68
Kelseyville											4.88	3.28	
Kennedy Gold Mine	5.81	4.91	12.04	3.10	1.23	0.00	0.00	0.00	1.05	T.	5.93	4.81	38.93
King City	1.75	1.63	3.17	0.83	0.27	0.00	0.00	0.00	T.	0.00	0.18	1.30	9.13
Kingsburg	0.91	1.77	3.57	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.15	1.67	8.35
Knight's Landing	3.21	2.63	3.60	0.75	0.98	0.00	0.00	0.00	0.15	0.08	1.77	1.72	14.89
Kono Tayee	3.84	4.15	5.41	2.06	0.66	0.00	0.00	0.00	0.25	0.42	3.76	2.34	22.89
La Grange	1.93	2.42	5.12	0.75	0.05	0.00	0.00	T.	0.57	0.12	1.70	2.82	15.48
Lathrop	2.34	1.44	2.78	0.89	0.26	0.00	0.00	0.00	0.10	0.00	1.36	1.15	10.32
Laurel	8.95	8.26	12.54	2.48	0.58	0.00	0.00	0.00	0.63	0.35	3.27	2.61	39.77
Lemoore[1]	0.77	1.06	2.49	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.93	5.33
Lemoore[4]	0.84	1.08	2.68								0.10	1.05	
Lick Observatory	3.29	3.45	8.99	3.61	0.95	0.16	0.00	0.00	0.48	0.66	4.01	3.58	29.13
Lime Point light-house	3.11	2.19	5.90	1.45	0.35	0.00	0.00	0.00	0.16	0.26	5.30	1.81	20.53
Little Bear Valley									1.21	1.49	2.55	7.61	
Livermore	3.02	3.12	3.68	1.40	0.78	0.00	0.00	0.00	0.00	0.00	1.59	2.14	15.66
Livingston	0.89	1.83	2.03	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.11	6.71
Lodi	3.42	2.66	3.88	2.04	0.92	0.00	0.00	0.00	0.15	T.	3.11	1.91	18.09
Los Angeles[1]	5.93	4.14	7.25	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.13	3.78	21.93
*Los Angeles	6.29	2.27	8.52	0.19	0.06	0.03	0.00	0.00	T.	0.75	0.20	3.65	21.96
Los Banos	0.75	2.20	2.19	0.19	0.11	0.00	0.00	0.00	0.05	0.05	0.30	0.97	6.81
Los Gatos[1]	6.93	4.65	8.11	2.34	0.66	0.00	0.00	0.00	0.23	0.35	0.73	2.42	26.42
Los Gatos[4]	8.18	5.78	9.15	2.57	0.71	T.	0.00	0.00	0.23	0.31	1.08	2.16	30.17
Lower Holcomb Valley									1.49	0.65	2.23	4.62	
Mammoth Tank	0.05	0.00	1.17	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.35	0.02	1.89

[1] Pacific Railway System. [2] J. H. Sturges. [3] B. F. Berriman. [4] W. Loutzenheiser. [5] M. Lovelace. [6] F. H. McCullagh.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
California—Continued.													
Mare Island light-house	3.65	2.04	3.07	1.16	0.40	0.00	0.00	0.00	0.26	0.10	2.03	2.11	15.42
Mariposa	4.81	6.81	11.67	1.90	0.18	0.00	T.	T.	0.32	0.01	2.24	3.79	31.73
Martinez	4.91	2.51	4.47	1.30	0.45	0.00	0.00	0.00	0.27	0.13	2.83	2.78	19.64
Marysville	1.80	3.39	3.68	1.00	1.10	0.00	0.00	0.00	0.00	0.34	2.23	1.92	15.46
Maxwell	4.20	3.25	3.69	0.89	.....	.....	.....	.....	.....	.....	.....	.....	.....
Menlo Park	2.44	2.75	4.33	1.26	0.23	0.00	0.00	0.00	0.09	0.09	1.51	1.90	14.60
Merced	1.05	2.31	3.49	0.37	0.00	0.00	0.00	0.00	0.07	0.00	0.65	1.13	9.07
Middletown	6.25	7.82	9.32	3.88	1.49	0.00	0.00	0.00	0.78	0.30	3.06	3.36	36.32
Mills College	3.78	3.54	6.00	1.46	0.00	0.00	0.00	0.00	0.50	0.16	6.86	2.45	24.75
Milton (near)	3.70	2.87	7.51	1.32	0.00	0.00	0.02	0.00	0.58	0.02	1.94	2.06	20.62
Modesto	1.65	2.02	4.24	0.45	0.00	0.00	0.00	0.00	0.00	0.00	1.06	1.85	11.27
Mohave	2.73	0.26	1.53	0.13	0.00	0.00	1.04	0.00	0.00	0.29	0.15	0.88	7.01
Mokelumne Hill	4.31	4.50	11.83	2.31	0.77	0.00	T.	0.00	1.63	0.40	5.04	3.35	34.14
Monson	1.34	1.86	3.61	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.22	1.28	8.59
Morses House	.....	.....	.....	.....	.....	.....	.....	.....	0.25	2.44	2.75	14.73	.....
Montague	0.51	1.88	0.87	1.75	0.44	0.00	0.00	0.00	0.72	0.44	3.05	2.34	12.00
Monterey	1.73	3.34	5.78	1.41	0.46	0.00	0.00	0.00	0.12	0.05	0.00	1.87	14.76
Mountain View	3.57	2.97	4.49	1.28	0.30	0.00	0.00	0.00	0.13	0.20	0.86	1.48	15.19
Mount Glenwood	6.46	4.61	7.60	1.37	0.39	0.00	0.00	0.00	0.05	0.09	2.80	2.96	26.33
Mutah Flat	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.70	0.00	4.10	.....
Napa City [1]	4.11	3.15	5.31	0.91	0.33	0.00	0.00	0.00	0.18	0.28	4.56	2.29	21.03
Napa City [2]	4.27	2.19	4.31	1.05	0.49	0.00	0.00	0.00	0.19	0.17	4.03	1.86	18.56
National City	1.09	1.08	6.50	0.27	0.20	0.00	0.16	0.00	0.00	0.33	0.84	2.08	12.55
Needles	T.	0.00	0.55	0.00	0.30	0.00	1.45	0.52	0.04	0.00	1.20	0.69	4.75
Neenach	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.90	.....
Nevada City	8.02	8.29	12.75	6.22	1.33	0.00	T.	0.00	1.71	1.25	7.78	5.23	52.58
New Almaden	5.92	3.94	6.78	1.78	0.36	0.00	0.00	0.00	0.03	0.16	0.59	1.65	21.21
Newark	2.44	1.86	4.66	1.43	[0.20]	T.	0.00	0.00	0.11	0.24	2.09	2.07	[15.10]
Newcastle [3]	5.16	4.11	7.21	3.11	0.87	0.00	0.00	0.00	0.62	0.61	4.82	2.86	29.37
Newcastle [4]	2.61	3.07	5.36	.....	0.19	0.00	0.00	0.00	0.40	0.17	2.39	1.65	.....
Newhall	3.91	1.34	7.90	0.47	0.34	0.00	0.00	0.00	0.00	0.72	0.00	3.90	18.58
Newman	1.03	2.87	4.73	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.47	11.16
Niles	1.95	2.50	5.95	2.10	0.25	0.00	0.00	0.00	0.00	0.44	2.45	2.21	17.85
Nordhoff	5.80	3.64	7.75	0.45	T.	0.00	0.00	0.00	0.00	0.61	T.	3.45	21.70
Norwalk	3.41	2.44	5.99	0.00	0.00	0.00	0.16	0.00	0.00	1.14	0.30	2.37	15.81
Oakdale	1.88	2.36	5.29	0.78	0.21	0.00	T.	0.00	0.28	0.00	1.45	1.60	13.85
Oakland [4]	3.68	3.25	5.76	0.98	0.34	0.00	0.00	0.00	0.03	0.29	5.76	2.57	22.66
Oakland [5]	3.02	3.19	5.22	1.28	0.51	0.00	0.00	0.00	0.25	0.20	4.91	2.63	21.01
Ogilby	T.	0.00	0.00	0.00	0.38	0.00	1.02	0.03	0.39	0.00	0.27	0.23	2.32
Oleta	6.88	4.88	11.40	2.65	0.63	0.00	0.00	0.00	0.00	0.38	4.53	3.18	34.53
Ontario	3.15	2.97	7.37	0.56	0.05	T.	0.28	0.00	T.	1.38	1.12	3.69	20.57
Orangevale	4.86	3.17	5.75	4.08	0.65	0.00	T.	0.00	T.	0.06	3.73	2.46	24.76
Orland	4.13	3.22	3.47	1.79	0.00	0.00	0.00	0.00	0.91	0.43	1.97	1.23	17.15
Oroville [4]	4.06	3.82	6.47	1.21	1.17	0.00	0.00	0.00	0.92	0.10	4.03	2.18	23.96
Oroville [5]	.....	.....	6.47	1.46	1.17	0.00	0.00	0.00	0.00	0.20	4.03	2.20	.....
Pajaro	2.30	3.44	6.63	1.22	0.45	0.00	0.00	0.00	0.10	0.34	1.56	.....	.....
Palermo	3.77	2.92	3.81	1.00	1.60	0.00	0.00	0.00	0.50	0.14	2.58	1.76	18.08
Palm Springs	0.40	0.00	1.18	0.00	0.10	0.00	0.35	0.40	0.10	0.00	3.00	0.11	5.64
Pasadena	7.53	3.03	10.47	0.66	0.20	0.06	0.01	T.	0.04	0.71	0.18	4.08	26.97
Paso Robles	3.28	4.09	6.28	1.09	0.27	0.00	0.00	0.00	0.00	0.24	0.00	2.38	17.63
Petaluma	4.33	2.34	6.41	1.24	0.65	0.00	0.00	0.00	0.12	0.19	3.75	3.54	22.57
Piedras Blancas light-house	4.20	3.17	5.57	1.15	0.17	0.00	0.00	0.00	0.10	0.11	0.53	5.23	20.23
Pigeon Point light-house	2.28	1.72	4.42	1.53	0.40	0.00	0.00	0.00	0.12	0.38	2.50	0.94	14.29
Placerville [1]	7.94	7.52	12.29	4.83	1.34	0.00	T.	0.00	1.40	0.95	6.19	5.20	47.66
Placerville [6]	7.14	6.94	12.39	5.31	1.71	0.00	T.	0.00	1.26	0.96	5.74	4.68	46.13
Pleasanton [1]	3.89	3.03	3.93	1.66	0.26	0.00	0.00	0.00	0.10	0.05	1.20	2.60	16.66
Pleasanton [7]	2.89	2.72	3.75	1.67	0.30	0.00	0.00	0.00	0.00	0.03	1.28	1.32	13.96
Point Ano Nuevo light-house	3.60	3.15	7.45	2.50	0.25	0.00	0.00	0.00	0.10	0.10	3.25	1.55	21.95
Point Arena light-house	4.38	4.51	10.91	4.06	1.23	0.05	0.00	0.00	1.74	1.42	6.88	3.60	38.78
Point Bonita light-house	4.78	3.01	5.90	1.81	0.66	0.00	0.00	0.00	0.38	0.62	6.83	3.11	27.10
Point Conception light-house	2.29	2.44	5.17	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.05	2.20	13.05
Point Fermin light-house	2.26	2.22	6.66	0.22	0.05	0.00	0.70	0.00	0.00	0.55	0.40	1.88	14.94
Point George light-house	.....	5.05	.....	.....	2.08	0.00	0.00	0.00	2.13	.....	3.34	3.07	.....
Point Huenene light-house	2.05	3.04	6.30	0.95	0.00	0.00	0.00	0.00	0.00	0.00	[0.00]	2.68	[14.42]
Point Lobos	3.19	2.53	3.74	1.01	0.19	0.01	T.	0.14	0.14	0.28	3.59	1.05	15.87
Point Loma light-house	0.86	0.24	4.21	0.18	0.13	0.00	0.00	0.00	0.00	0.10	0.55	1.22	7.49
Point Montara light-house	3.05	2.47	5.91	1.57	0.53	0.00	0.00	0.00	0.30	0.47	5.68	1.53	21.51
Point Pinos light-house	2.41	3.79	5.58	1.52	0.23	0.00	0.00	0.00	0.00	0.00	0.86	2.14	16.53
Point Reyes light-house	3.21	2.58	2.93	1.83	0.91	0.08	0.02	0.00	0.68	0.54	5.43	3.49	26.87
Point Sur light-house	2.01	2.45	5.82	1.25	0.25	0.00	0.00	0.00	0.11	0.19	0.86	1.84	14.78
Pomona	4.97	3.50	8.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.80	3.30	20.97
Pomona (near)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.92	.....	.....
Portersville [1]	0.83	1.85	3.68	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.61	7.31
Portersville [8]	.....	2.20	4.67	.....	.....	0.00	.....	.....	.....	.....	.....	.....	.....
Port Los Angeles	.....	.....	.....	.....	.....	.....	0.00	0.00	0.00	1.02	0.11	4.40	.....
Poway	1.78	2.42	8.26	0.51	0.00	T.	0.00	0.00	0.06	0.19	1.36	2.49	17.07
Puente	4.07	4.61	7.03	0.20	0.10	0.00	0.00	0.00	0.00	1.05	0.00	3.28	20.34
Ravenna	2.28	0.20	5.40	0.32	0.60	0.00	0.00	0.00	0.00	0.25	0.00	2.54	11.59
Red Bluff [1]	4.15	2.30	5.85	1.00	0.40	0.00	0.00	0.00	1.10	0.90	3.50	2.86	22.06
Red Bluff	3.82	3.22	6.08	1.42	0.61	0.00	0.03	0.00	1.23	1.09	4.22	2.64	24.36
Redding [1]	4.18	4.75	9.17	3.94	1.35	0.00	0.00	0.00	3.05	0.27	7.60	3.97	38.28
Redding [9]	4.16	3.90	12.16	4.19	1.86	0.00	T.	0.00	2.36	0.39	8.33	4.16	41.51
Redlands [10]	3.05	3.93	7.22	0.05	0.00	0.00	0.21	0.00	0.69	0.95	0.50	3.46	20.06
Redlands [1]	2.39	2.65	6.26	0.05	0.00	0.00	0.03	0.00	0.18	1.00	0.05	2.59	15.20
Represa	.....	.....	[7.40	2.00	1.28	0.00	0.00	0.00	0.70	0.26	3.81	2.35	.....
Rialto	4.06	3.54	8.26	0.64	0.06	0.00	.....	.....	.....	.....	.....	.....	.....
Rio Vista	3.15	2.31	3.31	0.99	0.61	0.00	0.00	0.00	0.14	0.09	2.66	2.00	15.26
Riverside	2.87	1.84	5.74	0.26	0.00	0.00	0.00	0.00	0.31	0.49	0.48	2.07	14.06

[1] Pacific Railway System. [2] W. H. Martin. [3] C. H. Kellogg. [4] Chabot Observatory. [5] L. C. Jacobs. [6] G. W. Barlow. [7] A. G. Platt [8] The "Enterprise." [9] L. F. Bassett. [10] The "Citrograph."

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
California—Continued.													
Rocklin	3.72	3.22	4.98	2.49	0.65	0.00	0.00	0.77	0.64	0.28	2.89	2.62	22.26
Roe Island light-house	3.65	1.78	2.31	0.77	0.00	0.00	0.00	0.00	0.05	0.10	2.86	1.72	13.24
Rumsey	4.80	5.42	5.77	1.76	0.77	0.00	0.00	[6]0.00					
[4]Sacramento	3.27	2.66	3.51	1.08	1.05	0.00	T.	0.00	0.22	0.12	2.92	1.76	16.59
Sacramento [1]	3.68	3.12	4.15	1.18	1.20	0.00	T.	0.00	0.31	0.09	3.30	1.96	18.99
Sacramento [2]	3.04	2.55	3.21	0.92	0.89	0.00	0.00	0.00	0.00	0.10	2.83	1.96	15.50
Sacramento [3]	3.22	2.55	3.21	0.92	0.99	0.00	0.00	0.00	0.19	0.00	2.83	1.97	15.88
Salinas [3]	1.07	2.9'	5.14	1.26	0.00	0.00	0.00	0.00	0.00	0.33	0.66	1.50	12.87
Salinas [2]	0.98	2.95	5.12	1.25	0.17	0.00	0.00	0.00	0.30	0.02	0.63	1.53	12.93
Salton	0.00	0.00	0.22	0.00	0.70	0.00	0.76	0.00	0.12	0.00	0.71	T.	2.51
San Ardo [2]	1.55	1.31	3.94	0.62	0.15	0.00	0.00	0.00	0.00	0.00	0.21	1.06	8.84
San Ardo [4]	1.92	1.47	5.86	0.76	0.22	0.00	0.00	0.00	T.	T.	0.30	1.38	11.91
San Bernardino	4.53	3.37	8.00	0.48	0.03	0.00	0.20	0.00	0.05	1.05	0.30	2.28	20.29
[4]San Diego	0.78	0.47	5.50	0.22	0.39	T.	T.	0.00	0.00	0.11	0.91	1.91	10.29
[4]San Francisco	3.05	2.75	4.08	1.03	0.15	0.03	0.02	0.00	0.21	0.16	4.18	2.25	17.91
San Gabriel	7.21	3.04	8.18	0.20	0.00	0.00	0.00	0.00	0.00	0.56	0.05	3.91	23.15
Sanger	1.71	3.74	8.15										
Sanger Junction	1.15	2.15	3.40	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.17	9.12
San Jacinto	2.71	1.66	6.01	0.25	0.37	0.00	0.03	0.00	0.51	0.66	0.80	3.16	16.16
San José [2]	2.95	2.68	5.12	1.35	0.30	0.00	0.00	0.00	0.00	0.00	0.81	1.69	14.90
San José [5]	3.03	2.56	4.90	1.50	0.25	T.	0.00	0.00	T.	0.01	0.80	1.80	14.85
San Luis light-house	2.25	5.30	8.90	0.75	0.08	0.00	0.00	0.00	0.10	1.80	0.40	2.00	21.58
San Luis Obispo	3.92	6.69	9.33	1.14	0.08	0.00	0.00	0.00	0.03	0.82	0.23	2.11	24.35
San Mateo	3.09	3.68	6.49	1.92	0.00	0.00	0.00	0.00	0.00	0.14	2.74	2.95	21.10
San Miguel	1.37	1.31	3.99	0.79	0.09	0.00	0.00	0.00	0.00	0.14	0.30	2.09	10.08
San Pedro	3.38	3.51	6.92	0.00	0.00	0.00	T.	0.00	0.00	0.63	0.23	2.05	16.52
San Rafael	6.51	5.26	7.79	1.56	0.45	0.00	0.00	0.00	0.57	0.17	3.14	3.03	28.48
Santa Ana	2.50	2.46	5.93	0.30	0.00	0.00	0.00	0.00	0.00	2.14	0.41	2.20	15.94
Santa Barbara [6]	4.41	3.10	7.80	0.38	0.09	0.00	0.00	0.00	0.00	0.82	0.07	2.94	19.61
Santa Barbara [7]	4.52	3.55	7.53	0.39	0.00	0.00	0.00	0.00	0.00	0.62	T.	3.05	19.65
Santa Barbara light-house	3.67	3.06	6.94	0.33	0.03	0.00	0.00	0.00	0.00	0.94	0.05	3.12	18.14
Santa Clara	3.07	2.83	4.79	1.46	0.38	0.02	0.00	0.00	T.	0.04	0.83	1.61	15.03
Santa Cruz [2]	3.90	2.88	11.03	1.75	0.25	0.00	0.00	0.00	0.20	0.45	3.52	2.34	26.32
Santa Cruz [7]	5.30	4.25	9.95	1.85	0.36	T.	0.00	0.00	0.25	0.75	4.40	3.50	30.41
Santa Cruz light-house	3.83	3.84	9.54	1.70	0.39	0.00	0.00	0.00	0.18	0.46	3.13	2.43	25.50
Santa Margarita	4.50	9.05	10.60	1.68	0.00	0.00	0.00	0.00	0.00	0.70	0.00	2.60	29.13
Santa Maria	2.08	3.10	6.84	0.80	0.05	.....	0.00	0.00	0.00	0.65	0.22	2.95	.....
Santa Monica	3.15	3.20	7.40	0.90	0.00	0.00	0.00	0.00	0.00	1.00	0.20	4.30	19.25
Santa Paula	4.60	2.81	6.81	0.40	0.00	0.00	0.00	0.00	0.00	0.87	0.00	3.64	19.13
Santa Rosa	4.13	5.56	6.59	2.07	0.80	0.00	0.00	0.00	0.25	0.52	4.82	2.61	27.35
Saticoy	4.36	3.18	6.64	0.60	0.60	0.00	0.00	0.00	0.00	0.88	0.00	3.07	18.73
Selma	1.08	1.00	3.32	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.58	7.82
Shasta Springs	3.43	4.12	12.36	10.10	5.61	0.17	0.00	0.00	2.86	1.25	10.03	3.01	52.84
Shingle Springs	4.97	4.17	9.78	2.95	0.95	0.03	0.00	0.00	0.85	0.40	4.98	3.30	32.35
Sims	3.50	4.39	8.94	9.69	4.57	T.	0.00	0.00	.....	.....	.....	3.48	.....
Sisson	3.10	2.80	2.77	.....	2.66	0.03	0.00	0.00	0.68	0.61	4.25	2.87	.....
Sneddens Ranch	.....	.....	.....	.....	.....	.....	0.14	0.02	0.03	0.72	0.00	4.45	.....
Soledad	0.89	1.38	3.08	0.81	0.39	0.00	0.00	0.00	0.00	0.00	0.17	1.14	7.86
Sonoma	4.08	3.53	6.78	1.89	0.60	0.00	0.00	0.00	0.50	0.27	5.30	2.93	26.48
S. E. Farallone light-house	2.50	1.77	5.13	1.91	0.45	0.00	0.00	0.00	.....	0.20	.....	1.95	.....
South Vallejo	3.72	2.14	3.01	1.13	0.21	0.00	0.00	0.00	0.17	0.10	2.19	2.06	14.73
Squirrel Inn	.....	.....	.....	.....	.....	.....	.....	.....	0.38	1.90	5.00	8.93	.....
Stockton [8]	2.68	2.14	2.89	0.96	0.00	0.00	T.	0.00	0.13	0.00	2.38	1.42	12.30
Stockton [2]	2.74	1.57	2.66	1.05	0.30	0.00	0.00	0.00	0.18	0.03	2.46	1.68	12.67
Suisun City	4.19	2.27	3.51	0.72	0.16	0.00	0.00	0.00	1.11	0.74	2.76	2.06	17.52
Summit	7.90	.....	14.50	9.20	0.00	0.00	.....	0.00	0.00	0.30	.....	6.00	.....
Susanville	4.82	3.53	1.55	1.83	0.67	0.00	T.	T.	1.65	0.60	1.80	0.95	17.40
Sutter Creek	4.61	3.53	9.00	2.17	1.24	0.00	0.00	0.00	0.00	0.30	3.63	3.60	28.08
Tehachapi [2]	0.85	3.61	5.00	0.65	0.00	0.00	0.00	0.00	0.00	0.50	0.50	5.25	16.36
Tehachapi [3]	1.05	2.13	4.27	0.51	T.	0.00	0.77	0.00	0.00	0.27	0.39	3.09	12.48
Tehama	4.88	4.99	8.03	3.76	0.75	0.00	0.00	0.00	1.02	0.03	1.55	1.85	26.51
Templeton	3.33	4.39	6.92	1.19	0.12	0.00	0.00	0.00	0.00	0.35	0.14	2.29	18.73
Towles	9.06	8.65	16.61	7.98	2.34	0.00	0.00	0.00	2.75	1.76	10.63	6.78	66.56
Tracy	1.22	1.14	1.51	0.55	0.00	0.00	0.00	0.00	0.04	0.00	0.87	0.87	6.20
Traver	1.11	1.68	.....	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	.....
Trinidad light-house	3.77	6.11	9.08	7.30	2.53	0.69	0.06	0.00	3.15	4.33	10.06	6.52	53.60
Tropico	6.61	2.28	8.96	6.60	0.00	0.00	T.	0.00	0.00	0.81	0.07	4.19	22.92
Truckee	5.44	8.02	5.18	3.73	1.79	0.00	0.00	0.00	1.22	0.35	3.96	2.82	32.52
Tulare [9]	0.53	1.13	2.55	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	5.69
Tulare [10]	0.72	1.55	2.62	0.08	0.00	0.00	0.00	T.	0.00	T.	0.06	1.21	6.24
Tulare [11]	0.64	1.20	3.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.50	1.07	6.76
Turlock [2]	1.02	2.01	3.37	0.32	0.00	0.00	0.00	0.00	0.10	0.00	0.60	1.50	8.92
Turlock [12]	1.52	1.89	2.73	0.25	0.20	0.00	0.00	0.00	0.17	T.	0.80	1.86	8.92
Ukiah	4.75	6.75	8.36	4.12	1.63	0.00	0.02	0.00	1.85	0.64	3.81	3.65	40.58
Upper Lake	4.08	5.19	5.47	2.37	1.04	0.00	T.	0.00	0.85	0.47	4.83	2.82	27.12
Upper Mattole	6.01	8.25	18.05	10.96	4.18	0.00	0.00	0.00	3.09	3.65	14.93	9.50	78.62
Vacaville [13]	4.50	3.13	4.54	0.80	0.55	0.00	T.	0.00	0.18	0.20	3.79	2.55	20.24
Vacaville [2]	1.73	3.35	5.00	0.20	0.32	0.00	0.00	0.00	0.00	0.08	3.75	1.35	15.78
Valley Springs	3.24	3.46	7.32	1.87	0.10	0.00	0.00	0.00	1.13	0.00	3.11	2.06	22.31
Ventura	3.17	3.02	8.19	0.42	0.04	0.00	0.00	0.00	0.00	0.85	0.25	3.04	18.98
Vina	2.99	3.24	4.62	2.21	0.70	0.00	0.00	0.00	0.63	0.02	1.99	2.15	18.50
Volcano Springs	0.03	0.00	0.00	0.00	T.	0.00	1.20	0.45	0.00	0.00	0.30	0.00	1.97
Walnut Creek	4.41	3.64	2.94	1.85	0.35	0.00	0.00	0.00	0.22	0.18	2.50	1.72	18.81
Weinrich Ranch	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.07	2.00	.....
West Butte	3.26	.....	3.33	0.59	1.24	.....	.....	.....	0.20	0.10	1.12	1.62	.....
Westley	1.38	1.57	2.56	0.74	0.22	0.00	0.00	0.00	0.08	0.00	0.64	1.00	8.20

[1] S. H. Gerrish.
[2] Pacific Railway System.
[3] Dr. E. K. Abbott.
[4] M. Gorman.
[5] Dr. A. C. Simonton.
[6] H. D. Vail.
[7] W. R. Springer.
[8] T. G. Brown.
[9] Austin Young.
[10] John Tuohy.
[11] Experiment Station.
[12] P. R. McCabe.
[13] G. O. Coburn.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
California—Continued.													
Wheatland	3.16	3.17	3.90	1.14	0.72	0.00	T.	T.	0.46	0.28	2.82	1.85	17.50
Whittier	3.25	2.43	7.35	0.20	0.20	0.00	0.00	0.00	0.00	1.00	0.20	2.36	17.02
Williams[1]	3.07	2.80	3.66	0.60	1.14	0.00	0.00	0.00	0.19	0.08	1.62	0.63	13.19
Williams[2]	3.61	2.80	4.01	0.68									
Willows[3]	4.32	3.53	4.01	0.97	0.50	0.00	0.00	0.00	0.26	0.00	2.22	0.92	16.73
Willows[2]	4.80	4.30	4.05	0.95	0.45	0.00	0.00	0.00	0.14	0.00	2.40	0.98	18.07
Winchester	1.80	0.68	4.61	0.27	0.08	0.00	0.03	0.00	0.08	0.53	0.87	3.08	12.03
Winters	4.47	3.87	4.93	0.93	0.37	0.00	0.00	0.00	0.00	0.03	2.07	2.02	18.69
Woodland	2.88	2.78	2.00	0.62	0.61	0.00	0.00	0.00	0.00	0.08	1.71	1.80	13.48
Yerba Buena light-house	3.30	2.60	4.30	1.20	0.00	0.00	0.00	0.00	0.22	0.22	3.43	1.33	16.60
Yreka	1.20	2.33	1.53	2.10	0.87	0.32	0.58	0.08	1.12	0.54	7.83	2.11	20.81
Yuba City	2.99	3.22	3.75	1.01	1.07	0.00	0.00	0.00	0.31	0.25	2.49	2.19	17.28
Colorado.													
Abbott	0.01	0.33	0.43	0.33	0.93	0.55	1.74	0.82	[T.]	[T.]	0.37	0.30	[5.81]
Agate		0.40	0.20	0.45	0.70								
Akron						1.25	1.71	0.73	0.38	0.07	0.05	0.56	
Alma	1.33	2.45	0.50	0.86	0.52	0.22	1.89	1.71	0.04	0.35	1.02	1.12	12.01
Amherst	T.	1.10	0.45	T.	1.44	4.66	1.59	2.55	0.19	0.27	0.32	0.28	12.85
Arboles	1.06	1.20	1.09	0.01	0.07	T.	1.05	1.08	0.32	T.	0.40	0.80	6.81
Avoca	[T.]	1.00	0.87	0.24	3.00	0.64	2.24	0.00	0.15	0.42	0.52	0.48	[9.56]
Bennet	0.05	1.00	0.50	0.32	3.37								
Boulder										1.10	0.80	0.39	
Box Elder	0.01	0.50	0.11	1.50	2.10								
Brandon								0.75	0.30				
Breckenridge	2.45	8.44	5.20	6.36	2.88	0.22	1.91	3.79	6.23	2.15	4.27	8.51	46.40
Brush	T.	0.55	0.08	0.21	2.12	1.13	1.33	1.68	0.12	0.65	0.21	0.58	8.66
Canyon				0.15	0.85	0.03	2.79	1.08	0.00	0.00	T.	0.04	
Castle Rock	0.10	0.95	0.70	0.90	1.99	0.36	2.48	1.42	0.00	0.57	1.0.	0.45	10.93
Cheyenne Wells	0.05	T.	T.	0.00	1.10	1.75	2.50	1.64	0.68	T.	0.30	0.03	8.05
Chivington			0.35	0.04	0.75	2.28							
Climax	4.60	9.00	6.50	7.60	2.40				0.30	3.00	6.45	7.85	
Collbran	0.49	3.79	2.34	0.35	0.96	0.41	1.07	2.78	1.39	0.28	1.07	2.15	17.08
*Colorado Springs	0.01	0.08	0.03	0.54	1.34	0.40	2.51	3.06	0.21	0.24	0.14	0.03	8.59
Como (near)	0.64	1.17	0.23	0.89	1.24	0.20	3.30	3.14	0.18	0.25	0.92	0.81	12.97
Cope	0.05	0.42	0.57	0.96	3.88	1.79	[2.70]	0.86	0.24	0.20	0.75	0.65	[13.06]
Crook	T.	0.48											
Cumbres	3.50	7.00	6.00	0.80	1.75	0.00							
Deer Trail	0.00	0.40	0.10	2.00	3.84	0.30	7.33	3.00	0.50	0.35	0.40	0.50	18.72
Delta	0.40	1.70	0.40	0.35	0.00	0.00	2.00	1.04	0.00	0.00	T.	0.38	7.17
*Denver	0.05	0.83	0.23	0.87	3.09	0.13	1.14	0.35	0.05	0.84	0.55	0.35	8.48
Dillon	0.86	4.78	1.94										
Divide Experiment Station	0.11	0.95	0.51	[0.60]	[1.50]	1.86	2.31	1.66	0.34	0.66	0.57	0.71	[11.80]
Downing	0.02	0.58	T.	0.37	3.42	0.26	3.49	3.78	[T.]	0.65	0.26	0.40	[13.23]
Dumont	0.29	1.39	0.30	1.10	2.62	0.49	2.48	2.35	0.29	0.62	1.50	0.70	14.04
East Dale	0.05	0.50	0.50	0.10	1.15	0.00	0.92	2.30	2.00	0.02	0.10	0.12	7.76
First View	0.00	0.05	0.02	0.20	1.43	2.08	1.79	1.40	1.25	T.	0.05	0.35	8.62
Fort Collins	0.02	0.54	0.14	1.66	1.92	0.26	0.64	0.92	0.18	0.16	0.50	0.12	7.06
Fort Collins (near)	T.	0.10	0.10	0.75	1.60	0.36	0.95	0.25					
Fruita	0.43	1.57	0.39	0.01	0.23	0.43	1.28	2.21	0.75				
Garnett	T.	0.63	0.06	T.	0.41	T.	0.62	1.80	0.94	0.00	T.	0.00	4.46
Gaynor	T.	0.84	0.15	1.38	2.17								
Georgetown	0.45	1.81	0.42										
Glen Eyrie	0.04	0.05	0.07	0.72	0.72	0.87	2.11	3.92	0.25	0.39	0.09	0.07	9.30
Glenwood Springs									1.40	0.45	1.77	1.89	
Gold Hill	0.50	1.75	0.20	1.90	2.30	1.50	0.85	1.65	0.30	1.35	2.33	1.20	15.83
Grand Junction	0.22	1.77	0.63	0.30	0.79	0.09	0.11	1.20	0.87	0.80	0.92	0.51	8.21
Greeley	T.	0.42	0.18	0.57	1.27	0.71	0.07	1.04	0.48	0.11	0.31	0.24	5.40
Greenhorn	0.30	2.40	0.60	1.27	1.10	T.	4.30	1.60					
Grover		0.20	0.70	0.90	1.34	0.74	0.85	1.23					
Gunnison							0.16	1.89	0.25	T.	0.50	0.20	
Hugo	0.00	0.04	0.00	0.21	2.50	1.75	2.75	T.	T.	T.	0.20	0.50	7.95
Hugo (near)	0.02	0.08	0.02	0.24	1.60	0.70	3.07	1.23	0.27	0.16	0.04	0.19	7.62
Husted	0.03	0.12	0.29	0.96	2.30	0.63	1.32	2.29	0.38	0.32	0.29	0.25	9.18
Idaho Springs	0.13	0.29	0.39	0.67	0.41	0.44				0.38	0.74	0.17	
Julesburg	T.	0.52	0.76	0.04	3.37	2.30	1.59	1.46	T.	0.14	0.11	0.27	10.56
Kirk	0.10	0.35	0.30	0.10	2.60	1.50	1.80	0.10	0.00	0.00	0.10	0.10	7.05
Kit Carson	0.05	0.10	0.12	1.12	1.30	1.31	3.00	1.00	[0.00]	0.00	0.00	0.50	[8.50]
La Jara	0.08	1.09	0.12	0.18	0.99	0.00	0.23	2.08	2.16	0.22	0.09	0.00	7.15
Lamar	T.	0.11	0.16	0.23	0.38	1.40	2.17	1.62	0.69	0.11	T.	0.52	7.39
La Porte	0.11	0.60	0.12	1.54	2.11	0.41	0.70	0.64	0.60	0.03	0.43	0.20	7.49
Las Animas	0.00	0.10	0.05	0.01	0.09	1.84	1.14	2.11	0.08	0.02	T.	0.50	5.94
Lavander	0.32	1.68	1.86	1.00	0.46	T.	5.53	2.13	0.93	0.25	0.50	0.60	15.26
Lay	0.45	2.15	3.25	1.34	1.38	0.06	0.55	[2.00]	[1.40]	0.62	1.41	1.28	[15.89]
Le Roy	0.05	1.20	0.87	0.46	2.73	1.25	1.75	0.61	0.41	0.41	0.48	0.94	11.16
Leslie	0.02	0.70	0.35	1.20	1.78	2.72	1.49	0.93	T.	0.50	0.50	0.40	10.59
Livermore	T.	0.48	0.20	1.50	1.07	0.63	0.74	1.11	0.08				
Longmont	0.03	0.65	0.19	0.88	2.15				0.16	1.06			
Loveland	0.01	0.59	0.10	1.41	1.78	0.66	0.34	0.49	0.71	0.12	0.52	0.30	7.03
Manhattan	0.70	0.47					1.82	1.75	0.75	T.		1.36	
McCoy				1.83	1.12	0.97	2.31	5.53	1.72	0.53	1.33		
Meeker	0.30	1.20	4.25	0.45	0.30								
Middle Box Elder	T.	0.31	0.16	1.00	1.14	0.40	0.56	0.67	0.20	0.10	0.31	[T.]	[4.85]
Minneapolis	T.	0.10	T.	0.21	2.29	0.70	2.92	2.85	1.22	0.37	[T.]	0.70	[11.36]
Monte Vista[4]	0.00	1.13	0.15	0.00	0.81		0.30						
Monte Vista[5]	[0.00]	[1.13]	0.04	T.	0.71	0.00	0.92	2.79	0.62	T.	0.40	0.02	[6.63]
*Montrose	1.06	2.36	0.72	0.57	0.18	0.06	0.48	2.17	0.98	0.18			
Moraine	0.69	2.32	1.88	1.34	1.76	0.37	1.43	1.83	0.21	0.43	1.03	0.90	14.10

[1] "Williams Farmer."
[2] Pacific Railway System.
[3] A. W. Sehorn.
[4] C. S. Aldrich.
[5] San Luis Valley Experiment Station.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Colorado—Continued.													
Orchard	0.00	0.60	.....	0.10	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ouray	.....	.....	.....	.....	.....	0.09	2.79	.....	.....	.....	.....	.....	.....
Pagoda (near)	0.35	3.40	4.60	1.66	2.50	0.30	0.58	2.62	1.95	1.35	1.40	1.75	22.46
Paonia	0.85	3.55	0.57	0.60	0.38	0.00	[1.50]	2.31	1.43	0.09	0.90	1.20	[13.38]
Parachute	0.79	0.78	2.01	0.50	0.62	0.11	0.66	1.32	1.00	0.15	0.65	0.10	8.69
*Pikes Peak	3.00	3.48	2.01	1.43	1.85	0.67	1.49	2.65	0.56	0.95	1.61	2.04	21.74
Pueblo	0.10	0.11	0.01	0.29	0.39	0.57	2.87	1.87	0.10	0.18	0.06	0.29	6.84
Red Cliff	1.90	4.06	3.41	3.15	1.09	0.44	1.26	1.07	0.30	1.15	2.46	4.85	25.74
Rico	1.48	4.25	5.29	1.03	0.18	0.03	1.09	1.33	2.01	0.23	1.21	1.53	19.66
River Bend	0.02	0.45	0.20	0.40	1.50	3.40	9.40	1.50	T.	0.60	0.70	1.20	19.47
Robb	T.	1.00	0.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rocky Ford	0.02	0.07	0.80	0.25	0.70	0.40	9.46	3.20	0.30	0.25	T.	0.50	15.95
St. Cloud	0.25	1.00	1.00	2.10	6.30	0.00	0.15	1.00	1.50	0.62	0.45	0.25	14.62
San Acacia	.....	.....	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sanborn	0.00	0.00	0.00	0.00	.....	.....	2.07	1.75	0.00	0.00	T.	.....	.....
San Luis	0.17	1.01	0.60	0.28	2.11	0.00	1.08	2.33	1.95	0.35	0.10	0.99	10.97
Scissors	0.00	1.50	0.80	1.85	1.20	T.	1.15	2.70	0.15	[T.]	1.20	1.20	[11.95]
Sedgwick	.....	.....	.....	.....	.....	3.44	.....	.....	.....	.....	.....	.....	.....
Seibert	0.01	[0.40]	0.21	0.35	2.75	2.27	2.10	2.10	0.20	0.30	0.14	0.26	[11.09]
Sheridan Lake	0.02	T.	0.23	0.01	1.39	2.08	3.96	.....	.....	.....	.....	.....	.....
Smoky Hill Mine	0.40	2.10	0.50	2.08	2.20	0.70	1.19	1.19	0.53	1.96	2.70	1.00	16.55
Snyder	.....	.....	.....	.....	.....	.....	1.33	1.68	.....	.....	.....	.....	.....
Springfield	.....	.....	0.10	0.49	2.24	1.23	2.01	3.49	1.74	0.70	.....	.....	.....
Stamford	0.50	4.25	0.90	1.95	4.35	0.00	2.40	5.50	0.80	0.15	1.15	1.05	23.90
Steamboat Spring	[0.30]	3.90	3.70	3.20	2.60	T.	0.50	0.15	1.00	0.70	0.75	3.75	[20.55]
Sunnyside	0.97	0.00	0.82	1.74	2.13	0.76	1.98	2.89	[0.63]	1.25	3.21	2.41	21.79
Surface Creek	0.40	2.50	1.05	[0.40]	0.00	T.	1.20	2.64	1.68	0.36	0.92	1.17	12.32
Thon	0.04	0.05	0.34	0.11	0.73	0.44	2.94	0.93	0.01	0.49	0.07	0.18	6.31
T S Ranch	0.40	1.01	1.01	0.26	0.46	.....	.....	.....	0.80	0.55	0.65	1.20	.....
Twin Lakes	1.56	0.85	T.	1.25	0.20	0.55	0.45	3.00	0.44	1.14	1.10	4.20	14.74
Vilas	.....	0.10	.....	.....	0.78	0.63	0.86	1.61	0.69	0.20	.....	0.06	.....
Villa Grove	0.18	0.89	0.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wallett	T.	0.50	0.95	0.40	4.30	1.95	2.95	0.95	0.20	[T.]	0.40	0.50	[12.90]
Ward District	1.40	2.64	0.94	3.27	3.66	0.00	0.49	0.11	0.10	[0.70]	2.94	0.11	[16.36]
Wilde	T.	0.20	0.25	0.36	2.47	0.93	4.38	1.83	1.08	0.61	0.30	.....	.....
Wray	.....	.....	.....	[0.03]	[2.12]	1.00	.....	.....	.....	.....	.....	.....	.....
Yuma	T.	0.90	0.70	0.38	2.57	1.30	2.10	0.95	T.	0.40	0.41	0.55	10.26
Zuck	T.	0.07	0.24	0.25	0.85	1.40	2.79	1.84	1.45	0.13	0.08	0.70	9.80
Connecticut.													
Bridgeport	.....	.....	.....	.....	.....	.....	.....	.....	2.20	4.83	3.18	4.05	.....
Canton	3.47	6.01	4.69	4.22	7.52	5.00	1.95	4.91	3.23	5.92	2.71	4.46	54.09
Colchester	3.18	3.70	5.48	5.14	7.97	1.90	1.43	4.23	3.06	6.60	3.40	3.09	49.24
Falls Village	2.71	6.23	3.05	2.65	5.02	2.49	3.33	5.50	3.89	3.99	1.84	4.16	44.86
Greenfield Hill	.....	.....	.....	.....	.....	.....	.....	8.23	2.62	4.93	3.02	3.65	.....
Hartford	3.55	6.38	6.40	4.12	7.44	2.06	1.64	4.14	2.36	4.72	2.46	4.73	49.00
Lake Konomoc	2.72	7.94	5.14	4.14	7.17	2.63	0.19	3.37	2.72	3.45	3.47	4.66	48.32
Lebanon	3.71	4.87	4.70	4.19	8.19	2.17	1.17	3.64	3.56	5.56	3.29	3.93	48.98
Middletown	2.47	7.53	5.39	4.33	7.20	2.99	2.16	4.98	2.55	5.54	3.18	4.15	52.47
New Hartford[1]	3.69	5.51	5.05	4.30	7.10	2.09	2.51	5.47	3.23	6.48	3.36	5.20	54.05
New Hartford[2]	3.69	6.62	4.51	3.90	6.08	1.99	3.28	5.71	2.94	5.97	2.36	4.64	51.69
*New Haven	3.47	6.23	4.50	3.84	7.08	2.07	1.89	4.86	2.24	4.75	2.56	3.22	46.71
*New London	2.46	5.93	5.38	3.12	5.02	3.60	1.51	3.69	2.29	2.20	2.42	4.10	41.72
North Franklin	3.94	4.25	5.00	3.78	8.34	3.73	2.25	3.43	2.75	4.91	3.26	.....	.....
North Grosvenor Dale	2.40	5.89	3.99	3.24	6.03	1.75	1.27	4.03	2.44	4.55	2.40	3.50	41.49
North Woodstock	.....	.....	.....	.....	.....	.....	.....	3.50	1.80	.....	.....	.....	.....
Norwalk	2.35	7.46	4.10	3.90	6.84	2.10	3.64	6.57	2.38	5.16	3.24	3.79	51.53
Southington	3.11	6.71	5.56	3.68	6.87	3.60	2.10	6.10	2.04	5.60	2.65	3.90	51.92
South Manchester	2.65	6.24	4.15	3.44	5.03	3.01	3.42	4.58	2.61	4.62	2.51	3.60	45.86
Stevenson	3.36	7.07	5.05	3.79	7.63	2.64	2.80	7.81	2.51	5.31	3.55	2.30	53.82
Storrs	2.39	5.86	4.67	3.82	7.12	1.98	1.58	3.79	2.58	6.71	2.45	3.68	46.65
Voluntown	[3.10]	8.46	5.39	4.01	7.10	2.57	1.48	4.14	2.22	3.83	3.75	5.01	51.06
Wallingford	3.15	8.08	5.86	4.21	8.06	2.35	2.24	4.75	2.42	4.87	2.94	3.82	52.75
Waterbury	2.96	7.37	4.83	3.49	6.44	1.82	3.31	7.22	1.75	5.21	2.49	4.08	50.97
West Simsbury	3.53	5.94	3.92	3.77	6.75	3.52	2.37	4.29	2.83	5.01	2.43	3.99	48.35
Delaware.													
Dover	2.39	5.05	3.34	3.59	3.50	1.20	5.29	3.03	3.69	4.37	2.89	2.77	41.11
Milford	.....	.....	.....	.....	3.06	1.69	2.19	3.41	4.32	3.87	3.08	2.72	.....
Millsboro	2.18	4.43	3.09	5.31	3.54	2.23	2.47	4.00	6.17	2.88	3.41	2.96	42.07
Seaford	2.13	4.85	3.28	4.68	3.80	0.77	6.08	2.64	3.76	3.12	3.15	3.39	41.43
District of Columbia.													
Distributing Reservoir	2.16	3.53	3.32	2.85	4.81	1.68	1.47	1.85	3.36	3.30	4.00	2.04	34.37
*Long Bridge	1.55	2.95	2.31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Receiving Reservoir	2.19	3.67	2.26	2.63	4.77	1.66	2.41	2.86	3.18	4.36	4.20	2.28	36.49
West Washington	2.09	4.33	1.71	3.02	5.23	1.95	1.57	2.22	3.92	3.91	4.30	2.34	36.59
*Washington	1.85	4.25	1.83	3.21	5.41	1.81	1.44	2.32	3.91	4.11	4.90	2.27	36.71
Florida.													
Amelia	1.45	7.70	7.17	1.90	2.47	6.10	5.70	10.50	4.90	3.90	2.00	4.80	58.59
Archer	1.23	.....	.....	.....	.....	.....	.....	6.38	12.49	1.28	4.38	4.20	.....
Avon Park	1.63	3.25	2.88	1.82	7.69	13.49	6.79	7.26	3.95	2.29	2.58	[3.00]	[56.63]
Bristol	2.90	2.50	3.77	6.03	3.89	5.61	6.03	4.79	7.63	3.15	[2.70]	[6.80]	[60.80]
Brooksville	3.75	6.18	3.44	5.90	4.05	14.19	7.20	7.38	10.20	0.94	2.67	2.29	67.36
Chattahoochee Landing	.....	.....	7.66	5.50	3.27	6.87	6.77	3.75	.....	.....	.....	.....	.....
Clermont	1.47	4.87	4.79	0.68	4.91	8.74	8.68	5.23	4.78	1.72	2.48	5.53	51.88

[1] R. R. Smith. [2] Rev. William Goodwin.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Florida—Continued.													
Eustis	2.24	4.81	3.26	0.84	2.33	7.47	2.92	3.22	6.11	4.55	3.13	4.03	44.91
Federal Point	0.67	9.53	8.40	3.91	6.83	6.28	4.62	9.89	7.29	7.87	3.16	2.68	71.13
Fort Meade	1.58	2.10	3.58	0.75	7.14	13.12	6.72	6.93	7.56	2.18	2.67	3.07	57.40
*Gainesville	.....	.....	.....	.....	3.1[5]	11.00	3.90	9.48	7.05	2.97	7.15	.....	.....
Grasmere	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.14	2.75	3.33	.....
Green Cove Springs	0.84	7.87	7.65	2.18	2.94	5.11	7.88	8.48	6.32	6.74	1.73	4.18	61.92
Homeland	1.27	2.43	2.74	0.98	7.98	10.16	4.71	10.42	6.74	4.07	2.97	1.66	56.13
Hypoluxo	5.41	.....	3.94	5.28	6.12	9.00	5.04	2.31	3.04	.....	.....	.....	.....
*Jacksonville	0.98	6.87	8.90	2.67	4.18	4.66	4.54	10.02	6.09	4.48	1.76	3.08	58.23
*Jupiter	2.58	3.06	4.90	3.55	3.18	8.40	3.95	7.38	5.30	11.72	5.01	1.85	60.88
*Key West	2.86	0.94	T.	0.56	2.28	2.09	3.09	1.94	2.23	3.75	0.48	1.18	22.00
Kissimmee	1.66	3.67	1.89	1.70	4.51	12.47	5.49	5.87	4.65	6.42	2.29	1.56	52.18
Lake City	1.15	3.53	9.95	3.65	2.34	10.82	4.75	5.31	4.34	2.33	3.45	6.96	58.58
Manatee	1.83	4.39	4.06	1.70	4.18	11.20	6.01	4.91	10.32	1.62	2.78	2.70	55.70
Merritts Island	1.40	4.38	2.95	0.32	2.45	7.67	4.26	4.46	4.77	9.14	1.99	2.42	46.06
*Micco	1.37	3.11	3.62	0.99	4.17	4.78	3.75	7.52	.....	.....	3.22	.....	.....
Moseley Hall	1.80	3.61	9.30	5.44	3.44	3.49	5.24	6.02	4.19	2.80	2.20	5.86	53.39
Mullett Key	1.52	1.99	3.42	1.13	2.09	8.69	1.20	6.41	8.90	1.50	1.40	2.20	40.45
Myers	2.42	0.74	1.66	3.32	5.63	10.11	5.17	6.63	6.70	1.64	2.03	1.69	47.74
New Smyrna	1.00	2.17	6.11	0.33	1.65	7.11	[4.70]	[6.60	8.90	10.02	3.90	2.30	[54.79]
Ocala	1.16	3.83	5.26	1.24	3.47	6.65	[2.73	4.03	9.37	2.96	3.00	2.23	45.93
Orange City	.....	4.55	5.41	0.58	.....	.....	.....	.....	4.84	9.02	1.96	3.23	.....
Orlando	2.09	1.51	2.15	.....	[5.31	8.90	3.74	6.34	5.77	9.02	2.67	1.89	.....
Oxford	1.15	6.16	5.25	0.69	1.97	9.32	[12.56	6.34	5.24	3.47	1.83	3.01	57.19
*Pensacola	2.26	3.63	3.88	2.54	3.07	4.16	4.12	6.34	6.48	4.67	2.53	1.25	44.93
Plant City	1.95	3.10	4.40	2.37	7.18	9.89	5.43	11.10	8.11	1.83	2.58	1.56	59.50
St. Andrews	2.51	[2.37	7.29	2.71	3.55	7.36	6.44	.....	.....	.....	.....	.....	.....
St. Francis Barracks	0.43	7.98	8.22	3.50	4.63	2.32	5.81	7.67	2.94	8.01	3.97	2.95	58.43
St. Petersburg	1.90	2.04	4.42	0.51	2.53	8.99	3.41	8.91	9.59	2.15	3.18	1.37	49.00
Tallahassee	3.25	2.95	6.87	5.70	4.28	3.95	5.35	8.95	6.94	2.88	2.53	6.71	60.36
*Tampa	2.36	1.71	6.57	1.34	2.67	10.89	2.11	8.56	6.24	2.46	2.73	1.32	48.96
Tarpon Springs	3.84	3.82	5.05	0.65	1.64	10.72	4.72	5.24	6.50	1.32	1.93	2.64	48.07
*Titusville	2.18	3.15	3.83	1.72	3.86	6.67	4.13	3.58	4.73	8.67	2.88	2.40	47.80
Georgia.													
Adairsville	2.39	7.73	3.94	2.57	6.47	5.74	2.45	2.04	3.42	0.54	1.43	3.36	42.08
*Alapaha	1.80	4.28	4.93	4.49	6.34	9.26	7.11	6.80	4.91	1.56	1.79	7.49	60.76
*Albany	3.20	4.30	4.65	4.54	3.95	3.06	5.06	1.99	3.74	2.48	1.81	4.50	43.28
*Americus	4.35	4.31	3.92	2.07	3.06	3.44	2.90	7.09	3.70	2.14	1.28	2.40	40.66
Athens[1]	1.56	8.55	2.47	2.20	4.05	5.67	2.91	4.25	8.65	0.92	1.39	1.90	44.58
*Athens[2]	1.90	7.25	2.72	2.56	4.27	4.53	5.49	6.49	7.71	0.75	2.23	.....	.....
*Atlanta	3.02	5.45	2.43	2.48	4.46	4.65	2.13	4.07	3.06	0.39	1.11	3.18	36.43
*Augusta	2.92	5.26	2.81	0.97	3.22	7.71	3.51	3.18	4.29	4.56	1.98	3.50	48.91
*Bainbridge[3]	.....	.....	.....	.....	6.10	6.29	5.28	3.87	4.81	2.13	2.40	.....	.....
*Bainbridge[4]	.....	.....	.....	4.31	.....	6.43	5.48	3.30	5.98	2.20	2.55	3.11	.....
Blakely	4.75	6.63	6.64	2.95	4.57	3.23	1.96	5.33	4.59	2.49	2.52	2.36	48.02
Brag	3.61	4.96	3.34	2.14	4.68	9.09	3.87	13.41	5.38	3.20	2.90	4.48	61.06
*Camak	3.53	4.78	2.91	1.41	3.40	5.47	3.98	5.01	7.83	3.00	1.54	.....	.....
Camilla	.....	.....	.....	.....	.....	.....	2.73	6.10	3.04	2.67	2.16	4.46	.....
*Canton	2.64	8.68	3.33	1.76	5.79	6.39	0.56	2.27	6.16	0.53	1.58	2.22	41.91
Clayton	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.01	2.49	2.56	.....
Cohutta	.....	.....	.....	.....	.....	.....	3.91	2.34	3.49	1.43	0.96	2.81	.....
*Columbus	1.62	5.10	3.22	2.84	2.08	6.56	2.84	5.79	4.81	2.52	1.65	0.75	39.78
*Cordele	3.60	4.37	5.50	1.99	4.29	[2.95	6.09	6.10	2.78	1.92	1.01	.....	.....
Covington	.....	.....	.....	.....	.....	.....	5.05	6.52	3.31	2.09	1.30	2.76	.....
Dahlonega	2.85	8.76	3.94	2.29	5.40	6.05	.....	.....	9.07	0.80	1.87	3.24	.....
Darien	2.11	3.98	4.06	3.26	1.20	13.25	8.21	17.31	4.19	5.05	1.33	2.64	66.58
Diamond	2.57	7.33	3.99	2.78	5.81	6.88	3.20	2.76	.....	.....	.....	.....	.....
Dublin	3.37	4.90	3.63	1.14	5.80	4.75	2.22	10.61	1.79	1.53	0.63	1.78	42.15
*Eastman	.....	.....	.....	.....	1.90	7.59	4.43	7.35	4.33	1.55	0.96	.....	.....
*Elberton	1.80	7.94	2.85	2.27	3.88	7.81	5.36	5.28	3.66	2.38	1.59	1.93	46.75
Fleming	[2.02	3.88	4.06	2.48	3.09	9.48	4.22	8.97	5.11	2.45	0.64	4.53	50.93
Forsyth	3.58	7.65	2.51	4.30	6.24	6.79	4.99	13.45	2.71	2.55	1.54	2.20	58.51
*Fort Gaines	4.40	.....	.....	2.64	5.72	3.96	5.48	6.44	5.73	3.31	2.34	2.27	.....
*Gainesville	.....	6.38	3.71	1.88	3.80	4.54	1.35	4.18	8.73	0.45	2.60	.....	.....
Gillsville	2.10	6.44	2.37	1.25	4.46	5.91	3.28	7.65	6.51	0.86	1.70	1.80	44.33
*Griffin	.....	.....	.....	.....	2.13	5.42	3.21	6.28	5.14	1.41	1.29	2.25	.....
Hawkinsville	3.47	3.89	5.01	1.40	1.93	8.55	7.58	6.91	1.30	.....	0.84	2.46	.....
Hephzibah	1.25	4.70	2.56	0.75	4.15	7.64	6.27	8.48	5.10	5.11	1.80	1.95	49.76
Homerville	2.36	4.67	6.01	4.47	2.14	9.02	7.18	8.37	2.23	3.28	2.22	4.63	56.58
Lafayette	2.21	6.01	2.94	.....	.....	.....	4.61	3.38	3.28	1.20	2.02	4.47	.....
Lagrange	2.94	5.04	6.48	2.66	4.37	5.53	1.83	9.53	2.94	2.04	1.63	3.16	48.15
Lawrenceville	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.70	0.14	1.70	.....
Lincolnton	2.48	6.98	1.86	1.62	[3.73	6.93	2.48	.....	.....	.....	.....	.....	.....
Lithia Springs	2.45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Louisville	3.70	5.63	3.18	1.34	5.37	7.32	4.58	8.16	5.23	5.09	.....	3.35	.....
Lumpkin	2.73	5.17	5.44	1.60	6.05	9.81	3.96	10.28	3.85	2.94	2.02	1.22	55.07
McArthur	2.92	.....	2.07	1.90	2.41	8.19	3.78	[10.30	2.35	2.26	0.99	6.76	.....
*Macon[5]	.....	.....	.....	.....	3.22	3.06	2.29	4.75	2.22	2.72	.....	.....	.....
*Macon[6]	[2.85]	4.79	2.75	2.38	3.77	3.84	2.19	8.12	2.45	2.51	1.21	1.42	[38.28]
Marietta	3.42	8.12	3.39	2.34	4.62	4.85	2.74	1.05	7.21	0.51	1.92	2.83	43.90
Marshallville	4.58	3.82	5.08	2.53	2.98	5.89	8.19	4.90	1.97	1.08	1.29	3.35	44.66
Milledgeville	2.85	5.57	4.10	1.79	3.73	4.00	6.75	10.46	2.52	1.10	1.25	1.42	45.54
*Millen	3.13	5.51	2.27	0.83	4.19	5.45	4.15	6.37	2.74	3.74	2.50	3.73	44.61
Monticello	.....	.....	.....	.....	[4.61	3.15	[4.58	6.98	[3.16	T	.....	3.00	.....
Morgan	4.14	6.08	5.88	3.24	3.76	2.10	5.31	7.58	2.26	1.43	2.20	2.15	46.18
Mount Vernon	3.93	4.41	3.12	1.52	3.89	6.31	3.10	.....	5.59	2.50	0.90	.....	.....

[1] Prof. L. H. Charbonier.
[2] Cotton region and special rainfall observer.
[3] Cotton region observer.
[4] Special river observer.
[5] Special cotton region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Georgia—Continued.													
*Newnan					3.14	7.97	0.86	8.45	4.18	0.35	1.89		
Piscola	2.71	3.08	6.15	6.10	3.42	3.91	1.80	2.50	1.00	[c]0.30	1.87	5.85	38.69
Point Peter	2.20	8.30	3.00	1.35	3.85	5.75	5.60	5.05	4.40	1.70	1.40	1.65	44.25
Poulan	3.60	4.23	4.86	4.70	4.26	6.40	5.28	3.88	3.62	1.61	1.99	7.37	51.89
*Quitman	2.10	2.32	5.37	5.20	3.89	7.76	4.15	6.16	4.35	1.80	1.62		
*Resaca	2.12	6.39	3.36	2.97	4.52	5.22	2.43	4.49	5.23	1.05	1.54	3.15	42.47
*Reynolds			5.08	2.94	5.35	5.86	2.73	6.51	4.51	2.46	1.12	1.84	
*Rome	2.04	8.21	4.54	3.33	5.89	5.82	4.35	3.43	3.51	0.93	1.87	3.57	47.49
*Savannah	2.21	4.73	3.87	2.20	2.22	8.50	4.63	12.59	8.29	6.91	2.31	3.12	61.58
Talbotton		6.23	3.76	2.72	3.29	5.88	2.08	9.68	4.36	3.24	1.72	1.66	
*Thomasville	3.84	4.81	5.41	5.78	7.68	8.84	4.77	5.49	6.43	1.97	3.06	7.62	55.10
*Toccoa	2.07	6.23	3.01	2.70	5.25	5.55	2.85	4.35	7.95	1.00	1.11	2.79	45.86
*Union Point	0.97	6.64	1.42	1.71	4.36	3.21	4.31	3.32	3.22	1.26	1.20	0.92	32.54
*Washington	1.57	7.62	2.00	1.29	5.14	6.79	3.35	6.49	[m]3.58	2.30	1.04	1.86	43.03
*Way Cross					1.22	5.53	8.10	5.09	3.34	4.31	1.67		
*Waynesboro	0.72	5.59	3.41	0.41	4.03	6.82	4.57	9.79	2.27	4.02	2.50		
*West Point					3.93	5.93	3.00	10.71	2.73	1.99	2.08	2.68	
*Whitesburg			4.30	2.74	5.86	5.21	2.00	8.57	4.77	1.65	1.61	3.07	
Idaho.													
American Falls	0.80	1.90	1.30	1.04	1.00	0.00		0.25	1.38	[1.10]	2.33	1.10	
Boise Barracks	0.62	1.77	1.30	1.86	1.50	T	0.10	0.00	2.26	0.84	3.14	0.48	13.87
Bonanza City		2.00	1.76	1.20	1.10	0.21	0.94	0.16	2.14	2.89	1.13		
Cottonwood				1.78				0.03					
Delta					2.38	0.86	0.26						
Fort Lemhi											0.47	1.07	
Fort Sherman	0.85	4.25	3.35	4.75	3.75	0.75	0.75	0.00	2.50	5.50	7.00	4.50	37.95
Garden Valley	2.00	4.00	2.97	[2.11]	1.69	T	0.80	T	[j]2.67	3.02	4.44	2.00	[25.70]
Grangeville										5.52	2.19	2.02	
Hailey		2.89		0.25									
*Idaho Falls	0.93	1.78	1.38	0.44	0.42	0.06	T	0.36	1.25	0.14	1.29	0.59	8.64
Kootenai	1.76	2.90	1.93	4.21	1.15	1.80	0.29	0.22	10.93	2.50	9.48	2.00	39.17
Lake	0.85	3.20	0.75	0.60	0.35	0.58	0.31	0.56	2.26	0.20	2.45	3.45	12.56
Martin	1.75	1.93	2.66	1.19	0.70	0.00	0.19	0.12	0.58	0.02	1.33	1.05	11.52
Moscow		3.70	1.94	3.01	3.09	0.60					2.10	1.25	
Murray											7.28	5.69	
Nampa												[k]0.15	
Oakley							[l]0.03	0.00	1.83	0.26	0.28	0.25	
Paris					1.82	0.23	0.64	0.48	1.02	0.93	2.12	1.81	
Payette	0.37	1.28	1.32	1.24	0.44	0.09	0.23	0.00	1.87	0.67	2.33	0.60	10.44
Ruthburg	2.10	1.60	1.20										
Illinois.													
Albion												0.85	
*Alton	0.26	3.34	5.86	8.47	5.84	3.27	1.48	1.50					
Atwood	1.21		4.47	11.82	8.05		0.74	T			3.98		
Aurora[1]	1.36	2.25	2.69	4.95	2.10	3.05	1.19	0.32	2.70	8.20			
Aurora[2]	2.37	3.21	3.39	5.81	2.12	3.64					2.99	2.60	
*Beardstown	0.06	2.01	3.69	9.11	6.18	3.34	3.00	0.41	1.49	0.40	1.45	0.62	31.76
Bloomington	1.36	5.13	[n]3.11	8.34	5.40	0.80	1.16	0.15	[b]2.70	0.74	1.93	1.47	30.29
Braidwood											1.87	1.57	
Bushnell	0.68	1.47	2.11	6.80	4.36	2.15	2.59	4.89	3.17	T	1.92	1.34	31.48
*Cairo	1.26	3.93	2.09	6.91	6.70	7.59	1.23	1.64	6.83	6.26	2.75	1.60	48.79
Carlinville	0.37	5.72	3.68	9.23	4.59	4.10	1.84	0.51	2.57	1.69	1.37	1.45	37.12
Carlyle			2.73	10.94	4.16	5.62	3.49	0.89	4.35	0.51	2.02	1.28	
Chester	0.28	0.94	2.49	4.27	4.13	2.26	2.75	0.41					
*Chicago	2.08	2.44	1.09	4.16	1.93	3.59	3.08	0.18	1.98	1.75	2.45	2.14	27.47
Collinsville		2.90	5.21			2.92							
Cordova	1.26	1.18	3.15	6.30	2.42	3.81	1.13	1.27	4.70	0.49	1.83	1.54	29.08
Decatur	0.95		3.82									1.41	
Dixon	2.07	1.94	2.83	4.02	2.99	4.42	3.74	0.39	3.22	1.05	2.13	1.69	30.49
Dubois							0.28	0.45	3.73	2.22	3.24		
East Peoria	1.47	4.50	3.38	8.51	4.01	4.29	1.56	0.53	3.53	0.27	2.39	2.32	36.76
Effingham	1.10	3.02	4.27		5.50		[o]0.60	1.70		1.20		2.25	
Ellsworth	1.40	3.80											
Fairmount	1.50	0.85	4.25										
Flora	0.85	4.44	4.72	14.01	4.95								
Fort Sheridan	2.02	1.10	1.95	5.87	2.07	3.02	3.77	0.10	3.62	1.19	2.87	1.61	29.79
Galva	0.95	1.65	2.88	5.73	2.45	1.37	1.08	0.69	3.57	0.46	2.25	1.54	24.62
Golconda	2.04	4.11	2.43	8.82	4.92	9.78	3.04	2.50	2.62	4.63	3.32	2.45	44.66
Greenville	0.84	3.72	3.54	11.86	5.61	5.16	1.68	0.19	3.73	0.49	1.90	2.40	41.12
Griggsville	0.42	2.82	6.22	7.69	5.65	3.80	3.38	0.35	1.37	0.33	1.23	1.38	34.66
Havana	0.79	3.49	2.94	7.95	5.48	2.00	4.25	0.73	2.34	0.22	0.76	2.06	33.01
Hennepin	1.70	0.90		5.10	1.60	2.95	1.25	0.38	1.91	0.95			
Herrins Prairie						4.45	1.50	1.95	3.00				
Jordans Grove	0.28	1.77	2.74	9.23	4.09	4.14	2.64	2.39	3.07	6.55	1.68	1.28	39.81
Kankakee	1.00	0.38	1.13	5.45	4.83	1.28	T.	0.55	1.69	1.70			
Lagrange	1.91	1.79	2.15	5.61	2.27	5.30	2.96	0.23	2.84	0.52	2.26	2.00	29.84
Louisville	1.25	2.20	4.20	10.85	4.95	2.75	0.65	1.20			2.90	1.33	
McLeansboro	1.12	3.55	3.25	6.02	5.96	4.54	1.89	2.12	2.44	2.35	2.48	1.51	37.23
Martinsville	1.25	4.42	3.99	9.16	4.76	3.15	0.85	0.54	4.18	1.30	3.14	2.11	38.85
Mascoutah	0.74	2.43	3.50	10.20	4.20	2.80	2.50	1.30	5.70	3.60	1.60	0.60	38.57
Mattoon	1.08	2.71			4.60	2.00	4.35	1.21	3.37	[p]0.20	2.60	0.59	
Monmouth		2.24	3.48									1.57	
*Mount Carmel	2.61	4.81	4.00	7.93	4.56	5.94	1.41	1.44	5.43	3.18	2.62	2.02	43.85
Mount Pulaski						3.41	2.05	0.35	2.25	1.11	1.64	1.30	
Muddy Valley	0.20	3.26	2.39	7.68	5.11	5.00	0.91	1.26	3.03	3.56	2.56	1.65	37.81
New Haven	1.48	3.77	2.91	7.14									

[1] W. Holden.

[2] Dr. M. M. Robbins.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Illinois—Continued.													
Olney[1]	0.37	3.11	5.04	13.64	4.60	5.52	0.69	3.14	4.21	2.22	3.67	1.94	48.15
Olney[2]	0.64	3.73	4.05	10.44	4.14	5.38	0.96	2.65	3.95	1.97	3.10	1.74	42.75
Oregon	1.50	1.52	2.86	4.34	4.43	3.72	4.36	0.81	1.59	1.10	2.00	2.02	30.25
Oswego	1.85	3.16	2.68	4.80	2.59	3.27	1.99	0.52	2.88	2.28	2.25	1.85	29.82
*Ottawa	2.20	3.03	3.30	5.23	1.95	2.49	1.02	0.77	2.29	1.10	2.18	2.16	27.72
Palestine	2.00	4.39	3.40	9.12	3.70	4.60	0.71	2.71	3.33	3.37	3.12	1.53	41.98
Pana	0.48	4.60	3.77	16.56	.....	.....	2.49	0.30	2.74	0.28	.....	.....	.....
Paris	.....	.....	.....	6.26	4.70	4.24	1.19	0.38	3.24	1.41	3.10	1.69	.....
Peoria[3]	0.87	2.92	3.01	7.86	4.65	1.82	2.48	0.44	3.02	0.70	2.21	1.74	31.72
*Peoria[4]	1.76	2.73	3.48	7.93	4.90	2.32	2.60	0.45	2.56	0.97	2.41	1.59	33.70
Philo	1.02	4.51	3.87	8 28	6.38	1.67	0.66	0.46	3.65	0.65	3.48	1.28	35.91
*Quincy	0.52	2.92	2.14	6.14	7.59	4.09	1.23	1.66	1.63	0.38	1.24	0.25	29.73
Rantoul	1.60	3.57	2.60	7.23	3.89	1.11	0.38	0.20	4.38	0.76	2.19	2.25	30.16
Riley	1.57	1.55	1.82	3.71	2.99	5.13	2.32	0.45	4.18	2.47	2.34	1.42	29.95
Rockford	3.39	2.45	3.21	5.38	3.09	4.51	3.49	1.13	2.82	3.60	1.71	1.71	36.49
Rushville	1.16	3.02	3.77	9.10	7.36	3.03	2.45	1.91	2.96	0.22	1.72	0.81	37.51
St. John	0.40	2.93	3.69	9.81	3.74	4.66	1.16	1.58	2.79	2.58	3.20	1.28	37.82
*Shawneetown	1.63	4.60	2.08	10.55	2.77	3.12	2.17	0.34	.....	.....	.....	.....	.....
*Springfield	0.65	3.47	4.19	10.23	7.41	1.99	1.60	0.28	2.15	0.16	1.57	1.03	34.73
Streator	.....	.....	.....	6.17	3.21	0.96	.....	.....	3.00	.....	2.80	0.97	.....
Sycamore	1.83	2.12	2.22	4.59	3.25	5.04	3.65	0.46	3.83	1.13	2.74	2.19	33.05
Tuscola	.....	.....	3.20	8.73	.....	0.95	0.48	0.50	.....	.....	.....	.....	.....
Walnut	1.55	1.78	3.13	5.02	1.65	4.54	0.86	0.48	3.38	0.23	2.11	2.05	26.78
*Warsaw	0.40	1.66	2.25	5.25	3.47	1.59	0.88	0.95	1.77	0.22	0.77	1.08	20.29
Wataska	1.85	6.70	3.15	6.95	5.42	1.35	.....	.....	.....	.....	.....	.....	.....
White Hall	0.47	2.31	4.62	9.31	4.47	5.08	1.80	0.36	1.21	1.30	.....	.....	.....
Winnebago	2.84	2.04	2.30	4.66	2.72	3.26	2.61	0.80	2.62	2.45	1.67	1.29	29.36
Indiana.													
Angola	2.38	4.06	2.81	7.31	2.52	4.12	2.10	0.86	2.47	2.55	3.65	3.82	38.65
Ashboro	1.52	4.63	2.75	6.60	3.43	3.86	1.26	1.78	4.20	3.06	3.35	1.40	37.24
Bedford	[1.05	5.64	3.35	7.87	5.27	4.01	1.44	1.00	5.78	6.18	1.91	1.90	45.40
Butlerville	3.98	5.09	3.20	8.28	4.56	4.42	2.36	0.70	3.85	5.32	2.23	2.68	46.67
Cambridge City	3.53	5.80	2.47	9.53	6.73	3.38	2.55	0.89	4.72	3.58	2.80	1.91	47.89
Columbia City	2.83	4.01	2.67	6.29	1.92	2.41	1.19	0.72	2.74	2.68	3.10	2.90	33.46
Columbus	2.77	4.40	1.87	8.70	3.02	2.10	1.56	1.12	4.61	4.44	2.72	1.53	38.84
Connersville	3.00	5.85	1.61	9.95	6.66	3.87	2.50	0.57	2.75	3.02	2.46	1.63	43.87
Crawfordsville	1.30	2.12	1.61	4.63	1.20	.....	0.50	.....	0.60	.....	.....	.....	.....
Degonia Springs	2.34	4.56	1.67	7.96	5.80	3.57	2.31	1.26	2.12	4.29	2.85	2.53	41.26
Delphi	2.22	4.62	3.64	7.47	3.12	2.12	0.41	[0.60]	3.29	1.82	2.94	2.27	[34.52]
*Evansville	2.52	5.02	2.21	7.14	7.29	4.38	3.07	0.80	3.21	4.38	3.35	2.54	45.91
Farmland	3.29	5.46	2.59	10.79	4.47	[2.83	[3.84	0.65	1.63	1.41	3.78	1.99	42.73
Franklin	2.81	4.38	2.03	7.25	3.84	3.05	0.97	0.16	3.48	3.37	2.49	[1.90]	[35.63]
Hammond	4.40	1.01	1.39	6.43	2.30	2.30	1.15	.....	.....	.....	.....	.....	.....
Hawpatch	3.29	4.21	3.83	4.74	3.21	2.76	1.80	0.77	2.73	2.33	2.28	[3.87]	[35.82]
Huntingburg	0.98	[4.50]	2.85	[11.00]	8.90	7.15	2.10	4.25	4.35	9.00	[3.50]	1.35	[59.93]
Huntington	2.03	1.83	1.90	.....	.....	.....	.....	.....	.....	.....	3.36	2.83	.....
*Indianapolis	2.77	6.16	2.69	8.60	3.15	3.02	0.83	0.61	3.03	3.01	3.25	2.23	39.35
Irvington	2.20	5.59	3.63	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jasper	.....	.....	2.25	10.72	4.04	.....	.....	1.53	2.20	4.16	3.38	1.35	.....
Jeffersonville	2.53	4.66	2.27	8.23	4.79	4.68	1.76	1.91	3.16	4.93	2.89	2.51	44.32
Kokomo	1.78	5.53	2.97	8.42	4.45	1.48	0.87	0.36	2.54	2.08	2.93	1.78	35.19
Laconia	1.95	4.58	2.18	5.61	5.55	4.97	0.25	3.00	3.25	5.03	3.15	2.25	41.77
*Lafayette	1.62	4.84	4.12	9.65	3.03	1.93	1.10	0.77	2.74	1.57	2.65	3.05	37.07
*Logansport[5]	2.27	5.30	4.16	7.67	3.97	2.52	1.34	0.66	2.70	2.71	3.51	2.60	39.41
Logansport[6]	2.66	2.39	2.23	6.91	4.10	2.17	.....	0.54	3.09	1.85	3.42	1.34	.....
*Madison[4]	3.35	4.10	0.90	5.10	4.57	4.69	3.08	1.10	.....	.....	.....	.....	.....
Madison[7]	.....	.....	.....	8.15	5.75	4.47	2.97	1.01	3.88	5.47	3.21	2.34	.....
Marengo	3.70	8.31	3.00	16.60	9.60	6.50	1.79	1.00	3.60	8.75	3.30	3.80	69.95
Marion	2.30	5.46	2.76	8.45	4.45	2.28	0.47	0.99	2.45	2.15	3.00	2.44	37.20
Markle	.....	.....	2.22	7.84	3.01	2.30	.....	0.67	3.40	2.25	3.72	2.09	.....
Mauzy	3.78	6.09	1.71	9.11	6.86	3.67	4.19	0.90	2.47	3.54	2.63	2.03	46.98
Michigan City	2.75	1.79	3.90	6.12	4.51	.....	.....	.....	.....	.....	.....	.....	.....
*Mount Vernon	2.07	4.58	2.66	8.95	5.30	3.70	4.77	1.52	3.51	3.27	2.97	2.32	45.58
Muncie	1.75	1.93	6.52	15.00	1.45	[1.15	1.12	[2.29	5.16	6.12	6.50	4.43	53.32
New Albany	2.95	5.22	2.04	9.59	3.76	4.52	1.27	0.72	3.50	4.46	3.35	3.20	44.58
Point Isabel	2.93	6.30	3.49	9.57	.....	.....	.....	.....	.....	.....	.....	.....	.....
Princeton	1.10	4.60	3.49	8.79	5.40	4.73	0.96	0.53	2.56	2.96	2.43	2.24	39.79
Rockville	1.39	5.10	3.79	9.86	4.67	4.12	1.63	0.83	3.04	1.93	3.30	1.69	41.35
*Rushville	3.05	5.77	1.87	9.17	5.31	3.05	3.37	0.40	2.83	3.23	3.01	2.18	43.24
Seymour	[4.00]	5.16	2.96	9.22	4.42	2.96	1.90	0.90	7.62	4.71	2.38	2.70	[48.93]
Shelbyville	3.37	5.20	1.80	8.57	5.76	1.82	.....	.....	1.85	.....	.....	.....	.....
South Bend	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.31	.....
*Terre Haute	1.28	4.98	3.81	8.17	3.94	4.30	1.73	0.59	3.98	2.21	2.90	1.72	39.61
Union City	1.00	3.12	2.67	7.60	5.35	4.58	[1.80]	[0.40]	2.25	1.75	2.48	2.16	[35.16]
Valparaiso	.....	.....	.....	4.16	.....	0.20	0.81	0.20	2.68	3.45	1.45	1.80	.....
Veedersburg	1.49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vevay	2.97	5.50	2.26	9.21	3.81	6.65	3.28	1.27	3.83	2.40	1.40	2.92	45.50
*Vincennes	2.34	5.92	4.05	10.60	4.15	4.98	2.17	1.12	.....	.....	.....	.....	.....
Worthington	2.67	5.46	2.65	8.45	3.52	3.95	1.83	3.56	5.11	3.03	3.32	1.97	45.52
Indian Territory.													
Colbert	0.84	1.91	2.24	4.35	3.68	3.19	3.03	0.60	.....	.....	.....	.....	.....
*Eufaula	0.84	2.17	1.57	6.48	4.53	2.02	3.37	2.45	4.00	T.	3.36	1.20	31.99
Gwenndale	0.22	1.33	2.81	5.93	4.29	3.39	2.06	2.21	[1.19	0.00	0.27	0.50	24.20
Kemp	.....	.....	.....	.....	.....	2.73	.....	.....	4.05	0.26	2.69	1.44	.....
Lehigh	0.90	1.55	2.08	2.40	3.73	3.84	3.97	5.62	4.83	0.45	3.98	1.46	34.81
Paula Valley	0.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] C. H. Fahs. [2] V. E. Phillips. [3] Dr. Fred. Brendel. [4] Special river observer. [5] Special rainfall observer. [6] D. E. Prior. [7] Wm. P. Gosnell.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Indian Territory—Continued.													
Purcell	0.70	0.76	1.33	1.11	3.16	1.20	6.34	7.64	6.84	0.00	1.74	1.57	32.38
Sallisaw				4.68	6.04								
South McAlester	0.87	2.45	2.12				7.64	7.38	7.37				
*Tulsa	1.36	1.25	1.55	7.61	7.65	5.90	0.35	3.45	2.20	1.00	1.70	0.10	34.12
Iowa.													
Algona	0.35	2.04	2.20	4.25	2.31	1.69	1.87	0.40	1.90	0.02	0.60	1.60	19.23
Alta	0.26	1.32	2.60	3.14	3.65	5.48	4.61	1.73	1.02	0.23	0.96	1.40	26.40
Amana	0.55	1.35	2.52	4.68	2.29	4.28	2.70	3.02	2.63	2.02	1.73	1.22	28.99
Ames[1]	0.28	1.88	2.04	5.22	4.33	4.90	2.00	1.62	1.87	0.85	0.65	1.28	26.92
Ames[2]	0.51	2.11	2.10	5.58	4.25	5.50	2.95	1.84	1.88	0.89	0.43	1.35	29.48
Ames (near)	0.26	1.60	1.73	3.85	3.54	4.70	2.47	1.08	1.86	0.52	0.46	1.05	23.12
Atlantic	0.28	1.22	1.58	2.68	3.64	7.56	2.58	[2.50]	2.58	0.36	0.77	1.95	[27.70]
Audubon	0.11	1.52	1.55	3.21	4.54	4.93	2.38	1.98	1.48	0.18	1.00	1.55	24.43
Belle Plaine	0.90	1.20	2.49	3.55	3.24	3.43	2.24	1.99	1.96	2.67	1.51	1.17	26.35
Blakeville	2.20	2.60	3.70	3.49	3.36	3.30	2.66	1.12	0.85	4.23	[0.60]	[0.80]	[28.91]
Blockton	T.	0.32	2.70										
Bonaparte	0.60	1.42	2.79	5.11	4.31	4.27	2.46	2.02	5.13	1.45	1.61	1.17	32.34
Carroll	0.35	2.99	1.75	3.81	5.82	3.64	4.75	2.92	1.36	0.10	0.77	1.37	29.63
Cedar Falls	1.40	1.90	2.78			3.15	4.52	1.09	1.75	3.53	0.55	1.00	
*Cedar Rapids	0.72	1.72	2.99	3.89	2.79	4.89	1.98	2.47	2.85	2.63	1.24	2.40	30.57
Centerville	0.55	2.10	1.10	4.80	5.04	3.05	2.67	3.20	4.20	1.30	1.45	2.80	32.46
Charles City	1.49	2.18	2.51	4.89	2.72	2.71	4.72	1.20	1.82	1.28	1.09	1.76	28.27
Clarinda	0.68	1.12	1.73	3.11	3.17	4.12	8.84	6.22	2.38	0.09	1.05	0.76	33.27
Clinton	2.01	1.68	2.75	5.48	3.80	3.22	2.26	1.20	4.25	0.68	1.77	1.29	30.39
College Springs	0.20	1.89	1.80	3.80	3.61	4.37	6.13	3.54	3.29	[T.]	1.02	0.99	[30.64]
Corning	0.25	0.45	2.31	3.76	3.27	3.82	4.18	6.16	1.70	0.22	1.10	0.82	28.04
Council Bluffs							4.56	3.84	1.53	0.09	0.17	0.22	
Cresco	1.16	1.23	2.77	5.95	2.79	4.14	3.85	1.20	2.08	3.40	0.84	1.17	30.58
*Davenport	1.14	1.69	2.25	4.50	2.67	3.82	1.75	1.12	3.36	0.80	2.56	1.67	27.33
Decorah		1.30	2.00				6.05	0.50	3.36	2.13	1.51	1.73	
Delaware	0.86	0.97	2.31	3.71	2.92	4.29	3.98	1.06	2.39	3.27	1.81	1.44	29.01
Denison	1.15	2.45	1.79	5.18	5.21	3.05	[2.46]	3.79				0.60	
*Des Moines	0.56	1.28	1.15	5.61	2.84	4.69	3.55	1.60	1.33	0.22	1.51	1.30	25.64
Des Moines (near)							2.71	1.48	2.18	0.48	1.22	1.30	
[3]Dubuque	1.60	1.30	2.52	4.32	3.06	5.49	3.57	0.58	3.31	1.66	2.03	1.33	30.77
Eagle Grove	0.70	1.40	2.37	7.01	4.35	5.90	5.35	3.00					
Eldora	0.52												
Elkader	[1.20]	1.13	2.15	4.50	2.63	2.92	2.03	0.83	1.48	3.23	1.27	1.85	[26.12]
Emmetsburg	0.30	0.24	2.15	4.49	3.54	1.73	3.56	2.36	[1.50]	0.15	0.10	[1.20]	[21.32]
Estherville					3.51	[1.77		1.79					
Fairfield	1.16	0.99		9.45									
Fayette	1.05	1.26	2.21	3.75	3.35	3.45	4.03	2.04	1.97	3.19	1.40	1.70	30.00
Fort Madison	1.41	1.30	3.98	5.21	4.85	2.67	2.15	[1.88]	4.88	0.35	2.25	1.51	[32.58]
Fulton	1.80	1.05	4.40	3.50				[1.75	2.04	0.12	1.05		
Galva	0.20	0.70		[2.20				2.96	1.48	[0.06	0.79	1.54	
Glenwood	0.72	0.06	0.97	2.04	4.93	[4.00]	[5.00]	[3.85	1.35	0.22	0.23	0.47	[23.84]
Grand Meadow	1.65	1.76	2.29	4.11	3.16	3.80	5.72	1.70	2.01	3.02	1.34	1.86	32.42
Greenfield	0.45	1.37	1.96	3.52	3.49	3.08	2.95	2.92	2.92	[0.23	0.91	1.86	25.67
Grinnell	0.12	0.82	1.60	3.35	2.85				[2.38	1.56	1.85	2.62	
Grundy Center	0.50	1.12	2.40	5.52	[2.71	3.07	2.22	1.56	1.50	2.22	1.11	0.98	24.90
Hampton	0.82	2.91	2.56	6.18	2.94	3.75	4.36	1.15	1.54	1.63	1.93	1.38	31.15
Hawkeye	3.20		1.95	4.79	3.18	2.87	1.68	1.09					
Hopeville	0.17	0.42	0.63	4.03	3.35	4.05	1.99	3.40	3.27	0.21	0.60	0.53	22.65
Hopkinton	1.20	1.35	2.81	[3.00]	3.23	5.43	2.75	1.25	3.30	3.51	2.10	2.20	[32.13]
Humboldt					2.66	3.78	4.90	2.13	0.92	0.10	0.31	1.02	
Independence	1.41	1.64	1.75	1.95	2.52	3.57	1.73	0.75	1.15	3.05	0.03	0.70	21.45
Indianola	0.34	0.90	0.80	5.05	4.78	6.87	[2.50]	[2.50]	2.76	0.20	1.08	1.10	[29.48]
Iowa City[3]	1.18	1.75	2.82	4.37	1.79	3.01	3.56	1.64	3.07	1.98	1.75	1.52	28.44
*Iowa City[4]	1.18	1.75	2.99	3.88	1.90	2.82							
Iowa Falls	0.52	1.85	2.22	4.45	3.48	2.79	3.24	0.95	1.44	0.89	1.37	1.50	24.70
Jefferson		1.10			5.50	4.46	3.64	1.76	1.58	0.45	0.56	0.80	
*Keokuk	0.92	1.76	2.66	5.41	4.36	2.37	2.60	1.16	3.18	0.33	2.29	0.90	27.94
Keosauqua	0.49	1.44	2.35	4.82	4.48	2.72	1.94	2.26	5.40	1.08	1.24	0.80	29.02
Knoxville						[4.63	2.31	3.41	2.67	1.50	0.97	1.90	
Larrabee	0.13	0.79	2.47	3.93	4.11	2.19	1.95	2.18	1.24	0.89	0.95	2.27	23.10
*Le Claire	1.54	1.12	2.64	5.51	1.37	3.74	1.76	1.59	3.33	0.36	1.56	1.63	25.95
Logan	0.40	1.50	0.84	2.10	4.72	3.97	3.62	1.99	1.35	0.25	0.53	1.22	22.49
Maquoketa	0.86	1.72	3.17	4.30	1.77	[3.09]	2.07	1.62	3.22	0.78	1.21	1.10	[24.82]
Marshall	0.44	0.62	1.97	3.98	3.10	4.64	2.66	2.43	1.73	0.62			
Mason City						5.41	4.17	1.83	1.82	1.63	0.63		
Maxon	0.25	1.00	2.56	4.63	3.38	5.68	2.82	3.42	3.11	1.92	1.23	1.35	31.55
Mechanicsville	1.44	1.46	2.79	4.24	3.15	2.86	2.35	2.90	2.77	1.70	1.62	0.73	28.01
Monticello	1.18	1.32	2.44	3.58	2.57	5.82	1.92	1.23	2.50	2.08	1.80	1.54	27.98
Mooar				6.24			1.65						
Mount Ayr	0.16	0.95	2.13	3.31	5.09	4.14	4.75	3.98	1.49	[2.47]	0.63	0.59	[29.69]
Mount Pleasant	2.10	1.05	2.65	4.02	3.55	4.12	1.43	1.46	4.23	1.17	[1.00]	0.86	[27.64]
Mount Vernon					2.35	4.30	2.60		3.70	4.12			
Murray	0.22	0.60	0.94	4.70	4.44	5.37	1.60	5.73	3.37	0.05			
Muscatine	1.35	1.60	3.49	5.33	2.35	3.61	2.59	1.02	5.05	1.14	2.40	1.27	31.20
Newton	0.67	1.00	1.23	5.41	2.92	3.65	5.24	3.35	2.11	1.17	1.43	1.11	29.29
Osage	0.85	2.33	2.46	5.14	3.35	2.28	4.08	2.57	1.81	1.09	0.73	1.65	29.44
Oskaloosa	0.59	1.12	1.90	3.39	2.70	4.87	1.49	1.69	2.37	1.20	1.24	0.94	23.50
Ovid					[3.26	4.31	2.40	3.53	3.36	1.32	1.16	1.26	
Panama	0.29	1.16	1.10	2.47	5.17	4.44	3.96	2.32	1.35	0.12	0.48	1.26	24.12
Richland	0.92	1.16	3.03	4.63	3.24	3.53	2.21	1.91	5.30	1.64	1.96	1.29	30.82
Rock Rapids					4.69	1.36	4.91	1.24	0.74	1.05	0.30	1.15	
Rockwell City											0.72	0.68	

[1] Joseph J. Edgerton.
[2] W. H. Heileman.
[3] Albert L. Arner.
[4] Special river observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Iowa—Continued.													
Sac City	0.14	1.20	1.75	2.60	2.25	5.20	2.12	2.05	.....	.....	.....	1.65	.....
Seymour	.....	.....	.....	5.37	3.70	5.06	2.75	4.67	5.49	1.20	.....	1.67	.....
Sibley	.....	.....	.....	.....	1.62	2.48	3.37	2.26	0.88	0.53	0.17	1.43	.....
*Sioux City	0.34	0.77	1.43	3.56	3.17	1.63	2.29	5.85	1.11	0.58	0.75	1.57	23.05
Spirit Lake	0.25	.....	.....	.....	.....	.....	3.41	.....	1.14	1.35	0.28	1.44	.....
Storm Lake	0.17	1.48	2.60	2.72	3.41	3.34	3.99	1.90	0.95	0.10	1.03	1.46	23.15
Tipton	0.79	2.30	3.77	4.63	2.93	2.18	1.69	[1.00]	3.39	1.71	2.00	1.39	[27.78]
Villisca	0.22	0.21	3.09	1.24	2.96	3.30	5.72	6.32	1.99	0.24	0.46	0.46	26.71
Vinton	1.00	0.49	1.95	3.22	2.60	3.19	1.65	1.40	1.85	2.57	1.21	0.64	21.77
Washington	0.89	0.30	2.70	4.21	1.74	3.83	2.27	1.65	4.24	1.15	0.90	1.14	25.02
Webster City	0.73	1.84	1.18	4.12	3.62	2.76	3.90	2.90	1.00	0.50	1.40	1.04	24.99
West Bend	.....	.....	.....	2.64	1.92	2.40	.....	1.28	1.69	0.16	0.87	1.26	.....
Williams	0.33	2.09	1.89	5.00	3.68	3.01	5.93	1.79	1.49	1.06	1.57	0.96	28.80
Winterset	0.52	0.94	1.85	5.65	3.16	5.86	2.00	2.91	2.72	0.15	[2.46]	1.25	[29.47]
Kansas													
Abilene	0.03	0.77	0.89	1.46	3.79	9.80	.....	6.61	2.01	0.84	0.87	0.62	.....
Achilles	.....	.....	.....	.....	.....	.....	[5].78	1.29	0.92	0.77	0.06	0.04	.....
Allison	0.12	0.50	0.14	0.18	1.59	1.68	2.64	1.74	1.50	0.25	0.10	0.24	10.68
Altoona	0.35	0.46	2.31	7.69	3.13	4.25	1.31	1.37	2.71	0.33	1.46	0.29	25.66
Atchison	0.11	1.35	2.39	3.15	4.60	6.25	5.54	4.73	4.14	0.11	0.95	0.32	33.64
Beloit	.....	.....	0.85	0.45	1.84	4.94	5.12	2.66	1.87	0.31	1.58	0.28	.....
Bucklin	0.10	1.60	T.	T.	1.80	0.85	1.40	3.00	2.00	0.10	T.	0.25	11.10
Buffalo Park	0.02	0.45	0.00	0.25	.....	0.80	.....	.....	.....	.....	.....	.....	.....
Cawker City	T.	0.01	0.70	0.20	.....	5.80	6.10	3.00	2.10	T.	1.00	0.10	.....
Colby	T.	0.15	0.03	0.52	2.07	1.69	2.47	1.35	0.94	0.24	0.18	0.05	9.69
Coldwater	T.	0.85	T.	T.	1.11	1.69	2.53	1.24	3.65	0.12	T.	0.30	11.49
Collyer	0.00	T.	0.00	0.50	1.10	1.80	5.30	1.12	.....	0.00	T.	.....	.....
Columbus	0.36	1.19	2.39	8.51	5.85	3.35	3.24	2.42	5.99	1.00	1.42	0.93	36.65
*Concordia	0.05	0.34	0.74	0.86	3.27	6.44	4.47	1.69	2.08	0.14	1.01	0.41	21.50
Cunningham	0.03	0.88	0.37	0.14	2.03	2.09	1.96	1.37	2.01	T.	0.34	0.31	11.53
*Dodge City	0.02	0.34	T.	0.04	1.31	0.76	3.32	1.82	1.74	0.25	0.42	0.10	10.12
Downs	0.25	0.53	0.32	0.85	2.77	6.18	3.79	3.56	1.81	0.17	1.20	0.47	21.90
Elco	0.32	1.64	1.54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
El Dorado	0.08	0.28	0.90	.....	.....	3.38	2.93	0.73	2.72	T.	1.06	0.00	.....
Elk City	0.23	0.68	2.42	7.17	2.94	3.33	4.02	1.91	3.33	0.25	1.00	0.70	27.98
Emporia	0.05	0.20	.....	1.95	3.35	7.60	3.92	2.07	3.25	0.00	0.90	T.	.....
Englewood	T.	1.10	0.55	0.09	2.90	1.78	0.60	1.98	2.93	0.13	0.17	0.13	12.36
Eureka Park	0.27	0.20	0.00	0.25	1.36	2.84	3.29	2.00	2.26	T.	0.40	0.27	13.14
Fort Riley	T.	0.26	0.80	2.38	4.48	6.40	5.48	6.40	0.77	0.25	1.50	1.00	29.72
Garden City	.....	.....	.....	.....	.....	.....	.....	.....	1.79	T.	0.47	T.	.....
Gibson	0.10	0.01	T.	0.26	0.82	4.04	4.90	3.46	1.27	T.	0.30	0.38	15.54
Gove City	0.50	0.10	0.00	0.15	1.53	2.12	6.09	1.51	2.80	0.39	0.43	0.21	15.83
Grainfield	0.00	T	0.00	T.	1.00	1.50	5.32	2.40	2.00	0.50	T.	0.20	12.92
Greensburg	T.	0.92	T.	T.	0.92	0.87	.....	.....	.....	.....	.....	.....	.....
Grenola	0.15	0.55	3.00	2.85	3.05	3.58	0.37	0.23	1.95	0.25	2.10	0.30	18.38
Grinnell	0.05	0.01	T.	T.	0.87	1.00	6.75	0.96	1.00	0.25	T.	T.	10.89
Halstead	.....	.....	.....	.....	.....	3.72	3.57	1.65	1.43	0.06	.....	0.59	.....
Havensville	T.	0.56	1.40	2.57	5.55	7.82	2.24	2.07	3.13	.....	.....	.....	.....
Hays City	0.05	0.05	T.	0.20	3.11	3.55	2.79	5.20	2.65	0.16	0.20	0.20	18.16
Hesston	0.06	0.91	0.51	0.19	1.99	.....	.....	.....	.....	.....	.....	.....	.....
Horton	0.01	1.02	3.08	1.94	4.01	4.33	5.40	4.68	3.40	0.15	1.42	1.33	30.77
Hutchinson	0.14	1.24	0.10	0.33	2.01	3.86	3.47	1.74	2.08	0.09	0.50	1.01	16.57
Independence	0.17	0.54	2.98	6.35	5.16	3.93	2.15	2.53	2.17	0.25	1.44	0.49	28.16
Kansas City	0.23	1.20	2.46	4.34	6.48	7.30	4.77	1.84	.....	.....	.....	.....	.....
Kellogg	0.21	0.91	1.96	1.34	5.64	4.39	1.77	1.13	2.52	.....	.....	.....	.....
Kiowa	0.04	1.15	0.39	0.07	1.24	1.25	0.86	4.28	3.73	0.10	1.01	0.36	14.48
La Crosse	T.	0.05	T.	0.59	1.46	2.12	.....	6.34	2.25	.....	.....	.....	.....
Lakin	0.05	0.20	0.10	0.06	1.68	1.86	1.62	1.09	2.20	.....	0.32	.....	.....
Lawrence	0.08	1.78	3.00	3.21	7.62	5.07	5.30	2.86	4.40	0.19	0.97	0.53	34.71
*Leavenworth	0.10	1.69	2.07	3.85	5.82	5.64	6.92	3.01	4.62	0.48	.....	.....	.....
Lebo	0.73	1.15	1.46	2.89	5.43	13.10	4.15	1.56	4.98	0.48	1.14	0.56	37.61
Leoti	0.10	0.13	0.05	0.04	0.80	3.13	3.61	1.05	1.50	0.01	T.	0.22	10.64
Liberal	T.	0.25	T.	0.17	1.02	1.67	0.69	[3].53	.....	.....	0.42	.....	.....
Luray	.....	.....	.....	.....	.....	.....	.....	7.10	.....	.....	.....	.....	.....
McAllaster	0.15	T.	0.00	0.10	2.00	.....	.....	.....	.....	.....	.....	.....	.....
Macksville	.....	.....	.....	T.	1.35	4.08	2.34	2.31	2.05	T.	0.32	0.31	.....
McPherson	0.04	0.67	0.52	0.51	2.19	7.74	2.26	4.24	3.46	0.00	0.06	0.14	22.43
[1]Manhattan	0.04	0.89	1.02	1.25	5.91	6.62	4.41	2.96	.....	.....	.....	.....	.....
[2]Manhattan	0.02	0.89	0.99	1.28	5.73	6.26	4.29	2.92	2.45	0.71	0.81	0.70	27.05
[3]Manhattan	T.	0.71	0.84	1.21	5.10	5.93	3.95	2.81	2.61	0.73	0.74	0.37	25.00
Mankato	T.	0.20	0.82	T.	2.20	4.75	3.36	2.41	2.00	0.12	2.35	0.20	18.41
Marion	0.12	0.74	[1]0.42	1.89	1.49	5.33	3.27	2.77	[5.70]	0.48	1.22	0.45	[23.88]
Marmaton	0.48	0.76	2.08	7.31	4.26	7.08	2.71	2.31	5.70	0.60	1.11	0.38	34.78
Medicine Lodge	0.00	1.40	0.00	0.00	2.18	1.21	1.44	2.25	3.40	0.14	1.23	0.42	13.67
Minneapolis	T.	0.28	0.72	0.42	2.14	7.02	2.76	3.45	1.98	0.44	0.73	0.28	20.22
Monument	0.01	0.11	T.	0.10	1.06	3.75	4.70	0.66	0.75	T.	0.08	0.00	11.24
Morland	0.04	0.51	T.	0.47	2.37	1.75	4.02	3.30	2.00	0.15	0.21	0.20	15.02
Morse	T.	0.72	2.57	4.12	5.46	.....	.....	.....	.....	.....	.....	.....	.....
Morton	T.	0.06	T.	0.15	0.63	1.68	2.08	4.33	1.53	0.54	T.	0.30	11.30
Mount Hope	.....	.....	0.75	0.34	4.36	3.96	2.85	1.14	1.60	T.	0.73	0.48	.....
Ness City	.....	.....	.....	.....	0.72	3.31	4.18	2.34	2.04	0.18	0.41	0.25	.....
New England Ranch	0.20	0.12	0.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Norton	.....	.....	.....	0.06	2.71	2.23	2.82	[6]2.75	.....	.....	.....	0.38	.....
Oakley	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oberlin	0.20	0.74	0.30	0.70	2.97	2.94	9.28	2.40	0.95	0.70	0.10	0.50	21.78
Olathe	.....	.....	.....	.....	.....	4.26	4.39	1.39	3.48	0.15	1.99	0.41	.....
Oswego	0.30	1.23	2.83	7.33	5.06	2.46	3.98	1.80	3.10	1.82	1.02	0.28	31.21

[1] Special river observer. [2] Agricultural College. [3] C. P. Blachly.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Kansas—Continued.													
Page	0.25	T.	T.	0.10	1.75								
Pauline	0.05	1.38	1.10	1.38	7.00	2.62	3.12	3.25	3.38		1.20		
Phillipsburg	T.	0.20	0.38	0.25	1.34	4.22	4.12	3.20	2.50	1.10	0.03	0.36	
Plainville			T.	0.43	2.43	2.50							
Pleasant Dale	0.01	0.10	T.	0.32	1.41	3.09	6.30	4.43	1.32	0.18	0.35	0.12	17.63
Quinter	0.02	0.05	0.00	0.35	0.80	1.00	5.30	2.50	2.00	0.10	0.01	T.	12.11
Rome	0.07	0.60	1.59	0.49	3.70	1.76	0.88	1.68	2.56	0.00	1.33	0.34	14.98
*Salina	T.	0.13											
Sedan	0.20	0.64	2.83	4.16	3.53	2.21	2.93	1.78	1.70	T.	2.12	0.18	22.28
Sharon Springs	0.10	0.05	0.25	0.10	1.25	2.05	3.70	4.00	1.00	0.00	0.20	0.00	12.70
Shields	0.09	0.03	T.	0.17	0.40								
Sterling	T.	0.60	0.27	0.09	1.99	4.60	3.05	2.30	1.85	T.	0.33	0.05	15.13
Syracuse	T.	T.	T.	0.12	0.71	1.31	0.92	3.72	1.70				
*Topeka	0.06	1.61	2.12	2.21	6.54	5.40	6.17	2.82	3.90	0.25	1.30	0.35	32.73
Topeka [1]	0.10	1.36	2.23	2.47	6.86				4.30	0.10	1.37	[2]0.35	
Tribune	T.	T.	0.07	0.09	1.21	3.36	2.21	1.65	1.50	T.	0.10	0.50	10.60
Ulysses	0.05	0.35	[1]0.00	0.28	3.45	1.37	1.50	1.64	1.56				
Utica	0.10	0.10	T.	0.26	0.82	4.04	4.90	3.48	1.27	T.	0.30	0.38	15.65
Wa Keeney	0.05	T.	0.00	0.40	1.00	1.80	4.30	1.53	2.00	T.	0.20	0.40	11.68
Wakefield	0.05	0.67	0.91	1.99	3.29	8.15	6.71	3.69	2.59	1.09	1.44	0.88	31.46
*Wallace [2]	T.	0.03	0.20	0.07	1.33	1.70	4.26	1.61	0.73	0.00	0.20	0.10	10.23
Wallace [3]	T.	0.08	T.	0.04	1.72	1.75	3.50	1.90	0.75	0.00	0.02	0.05	9.81
Wamego	T.	0.74	0.95	2.25	7.44	6.81	3.99	4.05	2.91	0.46	1.02	0.69	31.22
Washington					2.46	3.81	2.77	5.25	2.25	0.39	0.83	0.38	
*Wichita	0.19	0.80	1.09	0.25	2.22	3.41	5.02	1.51	2.10	0.02	0.81	0.67	18.19
Winona	0.08	0.15	0.05	0.27	2.00	2.91	4.75	1.30	1.00	T.	0.02	T.	12.53
Yates Center	0.18	0.65	2.77	5.00	4.46	5.26	4.28	1.65	4.60	0.74	1.18	0.23	31.00
Kentucky.													
Alpha												1.30	
*Bowling Green	0.72	4.26	3.29	7.12	8.07	5.87	5.85	1.37	2.74	4.88	4.03	2.79	51.59
Burkesville	1.30												
*Burnside	1.45		1.73	2.77	4.95	4.69	6.82	1.23	2.57	2.74	3.22	3.01	
Caddo	3.62	5.15	2.65	14.30	5.05		4.10	0.70	1.80	5.10	4.00		
Canton	1.30	5.06	5.59	7.02	6.92	1.11				3.22	3.76		
Carrollton	2.90	3.90	1.75	11.10	5.00	3.47	2.52	1.03	4.45	3.48	2.25	3.04	44.89
*Catlettsburg	0.65	3.06	1.47	5.54	2.59	1.29	2.44	3.56	1.47	7.38	3.00	1.95	35.70
Central City	2.96												
Earlington	2.45	6.22	4.20	10.91	6.86	4.40	4.34	0.89	3.80	3.65	2.42	1.75	51.89
*Eddyville	2.35	5.04	2.82	5.32	7.09	2.46	2.15	1.36	4.55	5.34	2.98	2.90	44.36
Edmonton	1.38	4.67	3.66	5.10	8.63	6.46	5.29	2.09	3.54	3.08	3.63	3.42	50.95
Elizabethtown											[4]2.26	1.66	
Eubank						3.24	5.79	2.79	2.21	1.85	3.37	3.11	
*Falmouth	2.57	4.65	2.26	8.01	3.50	5.36	2.34	1.17	1.06	5.67	2.87	1.99	41.45
Flemingsburg								0.63	1.35				
Ford's Ferry											3.24	1.22	
*Frankfort	1.65	3.37	3.35	7.60	3.55								
Franklin	1.05	5.97	4.63	6.84	10.41	7.70	4.88	0.39	4.62	4.36	2.75	4.99	58.59
Greendale					4.53	4.78	5.78	2.09	2.68	5.33	2.70	2.55	
*Greensburg	0.64	4.61	3.63	5.61	5.44	8.52	6.02	3.26	3.21	4.46	2.83	3.47	51.70
Harrodsburg	1.95	3.92	3.15	6.57	5.95	4.22	1.35	3.05	2.31	3.85	2.35	2.52	41.19
Hendricks	3.23	4.65	2.46	7.36	3.15	3.20	2.90	1.80		3.80	0.62	2.85	
La Grange	[5]1.47	4.21	2.22	9.53		3.51	2.20						
Lancaster			1.20	7.20		5.89	1.42	0.90	2.44				
*Lexington	2.10	4.44	3.30	5.81	3.88	4.24	3.11	1.86	2.25	5.59	3.36	2.61	42.55
*Louisa	1.78	3.67	1.97	5.19	3.04	4.29	3.69	3.51	1.41	6.10	3.32	2.78	40.75
*Louisville	2.57	4.58	2.38	7.69	4.19	4.56	1.52	1.68	4.00	5.10	3.22	2.44	43.93
Matlock	1.50	4.91	2.58	5.97	6.13	5.03	5.45	1.82		1.50	3.40		
Middlesboro	1.16	7.74	2.39	4.74	4.89	4.36	8.23	1.40	2.38	1.60	1.00	2.67	42.56
Mount Sterling	2.39	3.89	3.04	7.65	3.62	4.15	5.25	0.93	1.94	4.29	3.48	2.31	42.94
Munfordville			[6]1.01	5.86	4.87	9.30	4.09	3.16	3.88	2.65		1.93	
*Paducah [4]	3.00	4.37	2.08	5.11	7.53	4.80	0.81	2.80	3.54	5.84	3.19	2.16	45.23
Paducah [5]	1.90	4.43	2.13	7.08	6.59	4.29	1.09	2.52	4.15	5.25	3.26	2.08	44.77
Pellville	2.92	4.91	1.85	7.15	6.24	2.46	2.02	2.72	2.97	4.84	3.29	2.19	42.96
Princeton	1.95	3.95	2.63	7.10	5.43	1.38	1.71	0.93	4.67	3.87	1.89	2.65	38.16
Richmond	6.37		2.54	4.75	3.28								
Robard	0.11	3.86											
Russellville	0.57	4.99	2.68	7.02	7.03	6.91	4.54	0.62	4.47	3.94	3.69	2.91	49.32
Sandy Hook											4.00	2.52	
Shelby City	2.68	3.71	3.41	5.54	5.66	6.16	2.34	1.67	1.93	2.38	3.22	2.73	41.33
Shelbyville	2.75	5.41	1.95	7.30	4.72	2.93	1.15	1.48	3.67	6.08	3.41	2.96	43.81
South Fork	3.58	4.17	2.11	3.47	5.86	4.38	3.33	2.00	1.56	3.15	3.37	3.13	40.11
Springfield	1.98	2.60	3.66	5.95	6.84	5.45	1.80	1.90	1.73	3.54			
Versailles	2.80	4.08	2.63	6.05	4.26								
Wickliffe	1.09	4.55	2.94	8.33	7.22	6.11	1.16	1.13	8.20				
*Williamsburg	2.06	7.34	2.06	3.42	7.19	5.98	6.40	0.86	3.00	2.90	2.30	2.05	45.51
Louisiana.													
Abbeville	2.15	1.75	4.28	3.72	[4]4.95	2.80	5.55	3.08	5.60	1.09	3.05	2.40	45.42
*Alexandria	1.50	5.71	1.62	2.22	8.44	4.33	4.33	6.84	1.40	1.80	7.40	6.06	51.76
*Amite	4.15	3.48	4.28	2.89	6.74	10.56	9.49	7.76	7.66	1.14	6.28	3.58	68.01
Bastrop												2.60	
*Baton Rouge	2.34	1.78	5.65	1.99	10.68	6.84	2.87	4.84	7.03	1.38	6.99	3.77	56.16
Calhoun	1.63	3.99	2.34	7.22	6.89	7.82	2.43	3.28	0.28	0.31	4.78	2.54	43.51
Cameron	1.93	1.42	4.16	3.44	4.49	7.15	6.77	4.60	2.38	1.45	6.04	3.26	47.09
*Cheneyville	1.74	4.54	1.54	3.25	12.57	4.51	1.56	5.50	1.89	1.59	7.02	6.16	51.96
Clinton	3.52	2.08	2.58	3.08	7.00	5.26	7.50	7.42	3.86	1.22	6.47	3.66	53.77
*Coushatta [6]	2.95	1.55	4.40	1.41	5.43	9.33	2.52	2.54	1.19	0.87	8.24	4.70	45.13

[1] Washburn College.
[2] M. T. Griggs.
[3] Pacific Railway System.
[4] Special rainfall observer.
[5] Wm. Bornemann.
[6] Special river observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Louisiana—Continued.													
*Coushatta[1]	1.56	2.14	4.95	2.62	6.49	8.20	2.96	2.97	0.99	1.27	8.24	6.41	48.80
*Covington	.....	.....	.....	.....	7.05	6.80	4.92	3.08	9.48	3.24	6.12	2.16	.....
Davis	1.52	4.56	2.94	3.26	6.90	5.33	5.79	3.96	1.83	1.50	6.84	3.84	48.27
*Delhi	4.00	2.76	4.26	3.43	6.36	4.65	1.90	3.99	2.15	1.55	5.43	4.07	44.55
*Donaldsonville	2.33	1.84	3.97	1.71	7.30	8.67	2.60	2.38	11.39	0.73	8.25	2.87	53.54
Emilie	2.11	1.84	3.75	3.07	3.89	5.55	3.90	4.07	9.12	2.33	6.27	2.84	48.74
Farmerville	2.05	4.72	3.78	7.96	8.75	7.52	2.10	2.29	0.17	0.25	6.48	3.36	49.35
*Franklin	1.89	1.48	2.30	2.70	6.25	4.44	.....	7.49	14.01	0.48	8.82	1.09	.....
*Girard	2.34	6.11	5.35	4.40	9.23	1.79	0.95	5.87	0.43	1.16	5.25	[3]3.75	46.63
Grand Coteau	3.08	2.03	3.83	2.12	8.08	7.40	4.06	5.39	3.82	2.67	6.42	4.70	53.60
Hamburg	.....	.....	.....	.....	[2]2.85	5.02	8.48	7.73	.....	.....	7.91	5.39	.....
Hammond	3.92	2.30	5.48	2.81	7.84	5.27	6.69	5.26	7.20	2.03	6.37	2.60	57.77
Homer	0.12	1.95	5.03	8.87	6.63	.....	.....	.....	.....	.....	.....	.....	.....
Houma	3.40	4.19	5.34	5.60	5.70	5.66	.....	.....	.....	.....	4.01	0.06	.....
Jeanerette	1.41	3.05	3.70	2.11	4.68	9.01	6.35	6.84	10.21	0.91	6.70	2.00	56.97
*Lafayette	1.75	1.74	3.44	1.64	5.13	5.48	6.16	4.41	4.34	0.98	7.28	3.41	45.76
*Lake Charles	2.50	1.90	3.30	1.07	8.03	6.30	5.95	11.25	0.00	2.70	8.80	2.40	59.20
Lake Providence	.....	0.70	2.30	3.67	10.28	6.03	3.23	.....	2.24	0.48	5.00	3.37	.....
Lawrence	.....	4.30	4.25	.....	5.42	5.61	4.85	7.35	4.15	.....	4.40	.....	.....
Liberty Hill	1.15	2.08	4.06	4.85	5.41	6.44	1.26	2.99	0.48	[b]0.21	.....	.....	.....
Many	.....	3.74	1.95	7.21	4.00	11.20	0.00	3.38	2.70	.....	.....	.....	.....
Maurepas	2.11	1.16	5.90	2.10	8.12	6.42	5.72	5.15	6.87	1.32	6.39	3.44	54.76
Melville	3.92	3.10	1.85	2.43	9.26	3.75	2.49	4.94	3.64	0.15	6.23	4.53	46.29
*Minden	.....	.....	.....	2.33	6.38	6.41	5.17	1.96	0.61	0.82	7.02	2.31	.....
*Monroe	1.55	3.49	3.18	5.28	7.70	5.84	3.02	3.37	0.19	1.20	5.61	3.21	43.64
*Natchitoches	.....	.....	3.31	2.83	9.31	9.29	3.30	3.70	0.10	1.25	6.61	2.61	.....
New Iberia	2.06	0.93	1.30	[1]1.10	5.57	6.87	4.23	6.25	7.08	0.45	.....	2.60	.....
*New Orleans	2.50	4.92	3.49	3.70	2.66	5.30	3.72	4.56	4.38	4.24	6.24	2.31	48.02
*Opelousas	.....	2.36	2.22	1.48	8.54	3.74	5.75	5.29	4.21	2.04	5.76	6.84	.....
Oxford	.....	.....	5.22	2.63	5.29	9.76	1.31	4.80	0.66	0.72	7.78	3.50	.....
Paincourtville	1.58	1.61	3.74	.....	6.76	11.39	3.42	4.17	10.50	0.57	8.10	1.91	.....
Plain Dealing	1.38	2.19	[3]3.25	7.05	6.30	.....	2.34	2.63	.....	.....	.....	.....	.....
Plaquemine	2.88	2.28	6.96	1.81	7.88	8.36	2.72	5.96	7.17	0.46	6.00	.....	.....
*Port Eads	1.95	4.62	4.90	1.30	4.57	6.70	1.78	5.57	4.42	.....	3.51	0.53	.....
*Rayne	2.56	1.19	3.92	1.57	5.63	5.00	4.77	3.08	3.98	1.01	5.83	3.02	41.56
Roseland	2.89	1.86	3.19	2.60	6.06	6.87	7.56	7.11	6.00	1.53	6.90	4.69	57.26
*Schriever	2.38	2.85	4.57	3.65	3.16	6.49	4.26	9.27	4.23	2.54	5.42	1.94	50.76
Shell Beach	2.40	1.50	5.16	3.38	7.11	5.69	3.90	7.19	3.28	1.90	5.19	3.28	50.19
*Shreveport	1.06	1.58	2.68	3.13	4.56	7.45	1.58	1.63	0.56	0.63	5.38	1.82	32.06
Sugar Experiment Station	3.47	4.16	4.42	4.00	2.90	7.56	3.28	2.99	6.32	6.57	7.50	2.85	56.02
Sugartown	.....	.....	.....	.....	[k]0.66	8.74	2.94	4.56	0.33	1.94	.....	.....	.....
Thibodeaux	1.95	2.47	3.19	1.34	3.43	5.38	2.54	5.02	5.07	2.03	4.57	1.28	38.27
Wallace	2.67	2.09	3.81	3.08	6.39	7.65	6.54	6.95	12.59	2.39	6.48	4.10	64.74
West End	3.00	3.59	4.40	1.47	2.07	4.57	5.72	4.90	6.80	5.67	6.03	[5.50]	[53.72]
Winnfield	.....	.....	.....	.....	[1]4.12	8.67	1.94	3.85	1.27	0.99	6.51	3.84	.....
Winnsboro	2.00	1.70	1.69	2.40	5.60	3.31	1.14	2.71	0.08	1.00	2.16	.....	.....
Maine.													
Bar Harbor	3.34	3.59	1.72	3.64	4.25	2.17	3.57	4.14	3.18	4.66	2.23	7.19	43.68
Belfast	3.99	4.84	2.05	3.21	5.29	2.73	2.99	3.82	4.35	4.48	2.46	7.45	47.66
Calais	3.49	3.22	1.35	2.20	2.61	1.82	3.54	3.84	3.23	3.97	2.21	7.73	39.21
Cornish	1.90	7.33	2.08	2.59	8.82	3.09	1.31	3.94	2.57	6.76	2.54	3.46	46.39
East Machias	2.85	3.87	1.09	2.06	.....	.....	2.98	.....	3.44	3.14	2.04	6.98	.....
Easton	.....	3.20	.....	1.86	2.61	3.95	4.23	4.16	4.54	3.30	1.45	4.80	.....
*Eastport	2.08	3.26	1.35	1.94	1.91	1.85	2.61	4.04	1.93	1.83	0.99	6.08	29.87
Fairfield	1.62	2.77	2.49	2.13	3.42	0.99	2.27	2.90	2.12	4.89	0.86	2.36	28.82
Farmington	2.66	3.81	2.69	2.34	6.95	2.78	1.60	3.76	3.02	5.72	2.99	3.39	41.71
Fort Kent	1.82	0.98	0.74	1.20	2.72	2.31	.....	5.27	3.73	2.30	1.13	3.69	.....
Gardiner	2.70	4.79	3.18	2.52	4.66	2.56	1.12	3.27	3.23	5.90	1.83	5.13	40.89
Houlton	3.27	3.49	0.99	1.57	1.30	.....	3.91	2.98	4.03	3.90	0.85	3.57	.....
Indian Stream	2.47	1.83	2.36	.....	.....	.....	.....	.....	.....	.....	.....	3.02	.....
Kennebec Arsenal	2.09	3.58	2.04	1.40	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kents Hill	2.41	4.53	2.95	2.85	6.76	.....	.....	.....	.....	.....	.....	.....	.....
Lewiston	2.82	5.59	2.78	2.58	8.26	2.51	1.32	3.55	2.69	6.08	2.31	4.87	45.36
Mattawamkeag	.....	.....	.....	.....	1.15	2.80	2.48	4.12	2.70	5.05	1.08	.....	.....
Mayfield	.....	.....	.....	1.86	5.65	2.69	3.27	5.20	4.21	7.37	3.49	.....	.....
North Bridgton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.73	2.90	.....
Orono	.....	.....	.....	.....	.....	.....	.....	3.90	6.02	3.34	1.43	4.21	.....
*Portland	2.19	4.51	3.58	3.71	7.59	3.62	0.96	2.74	2.33	5.13	1.83	5.42	43.61
Maryland.													
Bachmans Valley	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.45	4.03	1.03	.....
*Baltimore	1.78	4.43	1.38	3.52	3.78	2.26	1.88	1.81	1.80	3.44	3.78	2.29	32.15
Benedict	.....	.....	.....	3.28	4.14	1.30	4.17	3.16	1.41	.....	2.86	2.46	.....
Boettcherville	1.95	4.40	2.40	4.10	4.90	3.40	1.50	4.20	3.10	4.70	2.90	1.00	38.55
Cambridge	2.71	4.80	3.60	3.47	4.84	2.94	7.12	1.68	2.94	3.61	6.25	4.05	48.01
Charlotte Hall	.....	.....	.....	.....	.....	.....	3.66	1.48	.....	4.48	.....	2.51	.....
Chestertown	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.40	2.60	.....
*Cumberland[2]	0.72	3.58	1.00	3.96	4.37	2.12	1.40	3.74	1.97	4.37	2.01	0.80	30.04
Cumberland[3]	[c]1.30	3.96	1.26	3.90	4.50	1.86	1.38	4.03	1.99	4.03	2.80	0.87	31.88
Darlington	2.28	4.74	2.10	3.18	3.97	4.74	2.98	3.60	2.98	2.59	3.87	2.73	39.76
Denton	1.90	4.38	3.27	3.77	[2]2.49	1.80	4.97	.....	.....	.....	2.55	.....	.....
Easton	2.14	3.87	3.44	3.38	4.16	1.46	4.29	4.24	2.10	4.04	3.87	2.90	38.89
Fallston	2.43	5.43	1.55	4.00	5.66	4.51	2.68	6.26	2.84	5.15	4.53	2.58	47.62
Fenby	2.31	4.24	1.85	4.90	6.60	5.00	1.40	4.20	2.50	5.30	3.30	2.00	43.60
Frederick	1.82	4.06	1.64	4.80	4.78	1.48	1.80	1.93	2.09	3.78	3.06	.....	.....
Glyndon	1.19	4.51	1.67	4.83	5.08	2.49	.....	2.68	2.64	3.93	.....	.....	.....
Great Falls	1.84	2.76	1.70	2.09	3.44	1.65	2.10	2.81	2.27	4.29	3.58	2.63	31.76
Jewell	2.05	2.22	2.80	2.56	4.52	1.04	2.50	.....	.....	.....	.....	.....	.....

[1] Cotton region observer. [2] E. T. Shriver. [3] Howard Shriver.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Maryland—Continued.													
Leonardtown	2.18	4.60	2.68	4.16	4.71	2.09	3.64	.....	.....	.....	.....	.....	.....
Mardela Springs	1.64	4.39	3.55	5.42	4.29	0.72	2.20	2.67	3.61	2.85	3.24	2.44	37.02
McDonogh	0.84	4.14	2.24	3.72	4.57	3.13	1.94	2.82	2.01	[8]3.88	2.69	.....	.....
Mount St. Mary	2.36	4.45	2.42	5.95	4.24	2.49	3.58	.....	2.59	4.48	4.57	1.52	.....
New Market	2.40	4.11	1.90	3.36	5.20	3.50	1.70	2.00	1.48	3.20	2.70	0.55	32.10
Oakland	3.60	1.30	.....	6.75	4.78	2.73	3.08	3.71	1.84	5.00	3.44	2.52	.....
Solomons	1.53	4.65	2.87	3.54	4.01	2.67	4.14	3.07	2.56	4.88	4.66	3.31	41.89
Sunnyside	3.50	4.94	1.24	1.10	6.58	3.96	2.61	3.68	1.40	5.02	2.97	2.65	39.65
Taneytown	2.32	2.60	1.99	5.38	3.66	.....	.....	.....	.....	3.25	3.40	1.80	.....
Upper Marlboro	.....	.....	.....	.....	4.44	1.57	2.54	3.80	4.42	5.45	4.42	.....	.....
Valley Lee	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.40	8.27	3.34	.....
Westminster	1.73	4.30	1.35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Woodstock	2.07	5.45	1.52	3.61	5.15	3.39	.....	2.88	2.03	5.60	3.70	2.61	.....
Massachusetts.													
Amherst [1]	[illegible]	5.57	3.25	3.46	4.28	3.29	2.05	2.49	2.48	4.28	2.43	4.74	41.04
Amherst [2]	[illegible]	4.81	3.89	3.66	4.37	2.90	2.59	3.42	2.57	4.45	2.66	4.63	43.04
Amherst [3]	[illegible]	5.75	3.66	4.41	5.02	3.32	2.59	3.40	2.82	4.88	2.81	4.86	46.85
Andover	[illegible]	6.87	3.25	2.04	6.44	2.57	2.50	.....	2.11	4.15	1.90	2.82	.....
Ashland	[illegible]	8.24	3.66	3.82	6.28	2.29	2.23	5.45	1.67	4.05	2.16	4.78	47.55
Bedford	.....	.....	.....	.....	.....	.....	1.79	6.00	1.73	3.36	1.95	4.22	.....
Beverly Farm	3.74	8.55	2.07	4.29	5.64	3.12	1.89	5.66	1.89	3.47	1.92	5.23	47.67
Blue Hill (Summit)	2.42	6.71	4.03	3.05	4.49	2.69	2.48	6.88	1.99	3.66	2.17	4.51	45.08
Blue Hill (Valley)	2.62	6.32	4.17	2.84	4.30	2.20	2.62	6.75	1.67	4.32	2.16	5.01	44.98
*Boston	2.56	6.22	2.80	3.13	5.23	2.20	1.72	6.46	1.59	2.94	1.83	5.16	41.84
Boston [4]	2.08	7.06	2.50	2.91	5.42	2.64	1.68	7.01	1.54	3.50	2.38	4.83	43.55
Cambridge [5]	2.03	7.28	3.71	2.66	5.06	1.62	2.05	5.20	1.35	3.46	1.79	4.79	41.00
Cambridge [6]	1.87	6.43	2.50	3.25	7.30	2.18	2.26	5.95	1.76	3.77	1.99	5.23	44.49
Chestnut Hill	2.74	8.09	3.37	3.32	5.77	2.33	2.10	6.53	1.85	3.70	2.00	4.91	46.71
Clinton	1.85	4.90	3.15	2.60	5.90	1.95	0.90	3.70	1.15	3.95	1.75	4.35	36.15
Concord	3.11	5.48	3.03	2.91	5.16	2.95	1.93	6.15	1.80	4.35	2.00	4.36	43.29
Dudley	2.04	3.40	3.37	2.65	6.61	1.13	1.12	1.55	1.86	3.93	2.04	3.07	32.77
East Templeton	.....	.....	.....	.....	.....	.....	.....	3.76	1.33	5.01	0.84	4.48	.....
Fall River	3.09	7.52	4.88	4.83	5.80	2.77	2.10	6.77	3.28	3.73	3.84	6.77	55.38
Fiskdale	2.21	4.60	2.78	2.47	5.52	2.73	1.44	3.85	1.88	4.94	2.02	3.95	38.39
Fitchburg [7]	2.30	6.89	2.77	2.78	8.25	2.65	1.54	7.58	1.64	5.03	2.48	4.95	48.86
Fitchburg [8]	2.39	6.23	3.24	2.78	6.83	2.22	1.56	8.95	1.54	4.92	2.33	4.70	47.69
Framingham	2.93	8.15	3.68	3.54	6.94	2.47	2.91	5.38	1.80	4.08	2.23	4.94	49.05
Gilbertville	2.74	7.50	3.32	2.98	4.84	4.46	2.64	3.40	2.62	6.68	2.40	5.58	49.26
Great Barrington	.....	.....	.....	.....	5.93	2.17	2.37	5.44	3.84	.....	.....	.....	.....
Groton	2.25	6.21	3.22	3.10	7.01	2.94	1.78	5.26	2.15	3.71	2.41	5.27	45.31
Hadley	.....	.....	.....	.....	.....	.....	.....	.....	2.37	4.60	2.55	.....	.....
Hingham	1.68	6.76	2.90	2.96	4.73	2.35	2.32	5.23	2.82	3.10	2.50	5.11	41.96
Hyannis	2.47	5.82	5.90	4.86	4.05	5.59	3.08	5.39	3.01	1.47	2.26	6.56	50.46
Kendall Green	3.34	7.92	2.89	2.82	5.89	2.04	1.82	5.80	1.60	3.72	1.91	4.81	44.56
Lake Cochituate	2.61	7.26	3.13	3.29	5.37	2.75	2.40	5.86	1.76	3.74	2.08	5.03	45.28
Lawrence	2.01	5.24	2.19	2.84	5.55	2.74	3.48	4.68	1.81	3.76	1.82	5.84	41.96
Leeds	0.80	6.35	3.15	3.31	8.29	2.72	1.58	5.51	2.23	5.57	2.80	4.79	47.10
Leicester	3.16	5.52	2.14	1.52	5.33	.....	.....	.....	1.19	4.62	1.53	3.78	.....
Leominster	2.76	6.48	3.19	3.07	7.31	3.60	1.82	5.18	1.76	4.68	2.31	4.81	46.97
Long Plain	2.83	7.91	6.06	6.16	5.78	3.59	1.71	4.69	3.18	4.10	3.98	4.93	54.92
Lowell	2.40	7.70	2.44	2.93	6.65	2.41	2.76	3.94	2.29	3.83	1.93	5.46	44.74
Ludlow Center	3.40	6.35	3.70	3.80	5.26	3.73	1.77	3.10	2.42	4.16	1.62	4.56	43.87
Lynn	2.15	6.40	2.17	3.41	5.64	3.07	1.82	8.68	1.43	3.21	1.79	5.26	45.03
Mansfield	3.01	7.76	3.68	4.72	5.88	2.79	1.81	5.74	2.86	5.23	2.71	5.03	52.12
Medford	2.00	5.63	2.52	3.51	6.42	2.15	1.55	5.32	2.01	4.11	2.15	4.39	42.26
Middleboro	3.43	6.51	5.35	3.41	4.35	3.96	1.62	5.21	2.42	3.26	2.67	5.56	47.75
Milton	2.35	5.32	2.80	1.92	4.53	2.80	2.06	6.09	1.45	2.29	1.98	3.77	37.96
Monroe	3.03	7.95	3.08	4.04	7.09	3.60	2.03	9.03	3.81	4.51	2.11	5.33	56.51
Monson	2.71	7.45	3.31	3.60	5.51	3.68	2.09	3.24	3.39	5.33	1.14	4.79	46.24
Mount Nonotuck	3.45	0.51	3.72	.....	.....	.....	.....	.....	.....	.....	2.13	5.57	.....
Mystic Lake	2.26	7.50	2.55	3.37	6.26	2.10	2.04	5.41	2.01	4.05	2.25	4.35	44.13
Mystic Station	1.97	7.71	2.54	3.42	6.10	2.07	2.07	5.36	1.92	4.02	2.21	4.21	35.76
*Nantucket	2.00	3.90	4.35	4.73	2.68	2.26	1.45	4.40	2.24	2.17	1.31	4.21	54.06
New Bedford [9]	2.73	6.72	6.18	5.13	4.49	3.00	2.40	4.26	3.38	2.45	2.63	6.69	50.06
New Bedford [10]	3.71	8.15	5.55	4.63	5.06	3.13	1.96	5.22	3.04	2.61	2.71	6.95	52.72
Newburyport	1.87	5.56	2.31	1.71	4.70	1.46	1.34	3.72	0.30	2.75	2.31	.....	.....
North Billerica	2.53	7.15	2.29	2.46	7.01	3.16	2.24	5.88	3.17	3.50	1.77	4.00	45.16
Plymouth	2.88	6.66	6.17	4.45	4.39	2.50	2.71	5.80	1.89	2.16	2.81	5.59	48.11
Provincetown	1.63	5.37	4.79	3.27	3.08	5.50	1.71	4.37	3.03	1.59	2.47	5.58	42.39
Randolph	2.89	3.47	1.39	1.70	3.12	2.48	2.81	5.46	3.08	3.60	2.17	4.55	36.72
Roberts Dam	2.35	6.19	3.02	3.18	4.71	2.25	2.95	6.89	1.73	3.15	1.99	5.26	43.67
Roxbury	2.62	6.94	3.16	3.69	6.05	2.15	2.07	6.92	1.79	2.39	1.83	4.99	45.60
Royalston	2.64	3.63	3.34	1.10	4.00	4.38	.....	.....	3.14	4.75	1.50	3.95	.....
Salem	2.19	5.77	1.95	3.34	5.76	3.31	1.95	8.00	1.44	3.27	1.77	5.22	43.97
Salisbury	.....	.....	.....	.....	.....	2.89	2.54	5.35	1.10	3.84	1.71	4.27	.....
Somerset	3.29	7.17	4.78	4.20	4.83	3.34	1.47	6.23	3.00	2.70	2.53	4.99	48.53
South Dennis	1.45	7.25	7.57	7.68	3.99	6.56	3.14	6.24	2.77	1.99	2.59	7.40	58.63
Springfield Armory	3.49	5.94	3.70	4.49	5.48	3.69	2.07	3.12	2.53	5.16	2.08	4.04	45.79
Taunton [11]	3.16	7.07	4.75	3.48	4.53	2.41	1.96	6.64	2.03	2.71	2.37	4.98	46.09
Taunton [12]	4.10	9.91	5.64	3.83	5.53	2.17	2.22	6.23	2.37	2.90	2.97	6.72	54.59
Taunton [13]	3.32	8.07	3.83	3.87	4.42	2.47	0.63	6.46	1.51	3.33	1.66	6.68	46.25
Taunton [14]	2.97	6.29	5.83	3.80	4.43	2.57	.....	.....	.....	.....	.....	.....	.....
Turners Falls	2.70	4.54	3.85	3.12	4.65	2.77	1.65	4.13	1.42	2.90	2.04	3.87	37.64

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[12] Taunton Waterworks.
[13] C. H. Wilmarth.
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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Massachusetts—Continued.													
*Vineyard Haven	1.61	3.85	5.88	4.30	3.58	2.06	2.13	6.43	2.56	2.22	2.52	7.30	44.44
Wakefield	2.48	8.39	2.41	3.42	6.77	1.82	1.67	5.94	1.79	4.32	2.15	4.72	45.88
Waltham	2.31	7.65	2.99	2.94	5.06	2.06	2.46	8.40	1.62	4.13	2.21	5.22	47.05
Wayland	2.41	5.67	2.96	2.86	5.17	2.44	1.81	4.73	.....	.....	.....	.....	.....
Webster	2.65	6.33	4.10	3.41	5.82	2.09	1.01	4.01	2.72	5.01	2.38	4.34	43.87
Wellesley	2.72	5.65	3.74	3.75	5.67	2.03	1.97	6.19	.....	3.39	2.11	4.78	.....
Westboro	2.40	6.98	2.70	3.59	6.62	2.11	2.15	4.27	1.86	4.03	2.02	4.59	43.32
Williamstown	2.72	3.72	1.39	2.43	2.75	2.08	1.46	5.84	4.46	2.26	1.22	5.04	36.27
Winchendon	.....	.....	.....	.....	.....	.....	.....	3.47	2.40	4.74	1.01	4.95	.....
Winchester	.....	.....	.....	3.09	5.18	1.81	1.94	5.91	2.07	3.86	1.85	4.31	.....
Winthrop	.....	.....	2.71	3.23	4.62	2.43	2.15	5.90	1.46	2.97	1.69	4.25	.....
*Woods Holl	3.53	7.18	6.09	5.26	5.02	2.61	2.68	6.27	2.99	1.66	2.94	5.67	52.10
Worcester[1]	2.56	6.64	.....	.....	7.40	2.28	.....	3.60	.....	4.54	2.21	.....	.....
Worcester[2]	2.68	6.91	3.90	3.56	6.95	2.54	1.38	3.27	1.98	4.68	2.28	4.65	44.78
Michigan.													
Adrian	1.60	3.99	2.43	5.46	3.61	3.64	1.58	1.13	1.50	4.49	5.27	4.28	38.98
Albion	1.64	3.25	3.83	6.58	2.69	4.37	2.32	0.47	.....	3.86	3.26	4.59	.....
Allegan	3.51	2.85	3.16	5.65	3.07	2.96	3.09	0.35	3.75	3.11	3.19	3.20	37.89
Alma	2.39	1.41	2.96	5.95	3.18	3.38	3.22	0.84	2.50	3.74	3.06	4.37	37.00
*Alpena	2.20	1.46	2.09	3.03	3.24	2.71	1.93	2.00	3.75	5.57	1.95	3.42	33.35
Ann Arbor	3.71	4.25	2.21	6.25	1.62	4.06	2.47	0.65	1.36	5.29	3.68	3.43	38.98
Arbela	1.94	3.66	3.33	7.59	4.95	4.59	2.73	0.51	1.92	3.69	1.78	3.64	40.33
Ball Mountain	1.62	2.99	1.89	5.35	1.74	6.47	1.69	0.79	2.32	4.82	3.08	4.44	37.20
Bear Lake	3.20	1.84	2.02	4.03	2.01	2.20	3.11	0.74	3.14	4.82	2.57	3.54	33.22
Bellaire	2.83	1.84	1.32	2.43	2.47	1.92	[3.43]	0.96	3.86	.....	2.83	1.36	.....
Benton Harbor	6.01	2.93	3.93	5.37	4.96	3.20	2.44	0.42	3.68	5.01	3.51	2.95	44.41
Benzonia	.....	.....	.....	3.32	2.37	1.70	.....	.....	.....	.....	.....	5.84	.....
Berlin	3.22	3.65	1.73	4.51	1.44	4.90	2.83	1.19	1.52	4.93	3.26	4.02	37.20
Berrien Springs[3]	5.20	2.81	4.53	7.72	5.27	3.85	1.90	0.30	4.48	3.65	3.20	4.75	47.66
Berrien Springs[4]	4.45	1.10	2.78	5.63	4.88	2.97	.....	0.51	4.81	2.86	2.70	2.30	.....
Birch Run	2.95	3.25	3.01	4.93	4.20	5.87	3.78	0.71	.....	.....	.....	.....	.....
Birmingham	2.58	3.14	1.96	4.03	2.37	4.70	1.14	1.19	1.20	4.89	3.28	2.47	33.55
Boon	4.54	2.82	2.04	3.92	2.75	3.14	5.46	1.42	3.15	3.65	3.43	5.16	41.48
Bronson	1.65	2.59	3.23	3.86	2.65	2.67	2.71	1.07	1.55	2.35	2.14	2.60	29.07
Brown City	1.83	2.55	0.80	4.18	2.05	4.39	1.43	1.85	1.48	2.89	2.25	3.07	28.68
Caldwell	3.62	3.05	1.71	2.18	1.80	.....	.....	.....	.....	.....	.....	.....	.....
Calumet	1.56	1.12	2.29	2.82	1.77	1.37	2.79	1.37	1.95	3.34	2.50	3.10	25.98
Charlevoix	3.75	1.00	1.58	1.20	[2.14]	0.34	4.57	1.16	2.09	3.67	2.90	3.35	[27.75]
*Cheboygan	1.31	0.61	0.85	1.80	1.52	1.91	3.72	1.44	.....	.....	.....	.....	.....
Cheboygan[5]	.....	.....	.....	.....	.....	.....	.....	.....	2.46	3.26	2.96	3.23	.....
Climax	.....	.....	.....	.....	.....	.....	.....	0.32	3.51	j1.11	2.31	3.07	.....
Clinton	1.73	3.83	1.90	4.37	2.13	3.72	2.59	1.64	1.16	4.84	3.60	3.49	35.00
Crystal Falls	0.35	1.10	1.33	1.84	1.24	0.90	3.69	2.58	0.25	2.70	1.00	3.29	20.27
*Detroit	1.77	4.05	1.36	3.61	1.50	4.66	2.50	1.78	1.37	4.77	3.68	3.13	34.18
East Tawas	0.44	1.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Escanaba	1.90	2.94	2.06	2.98	3.28	1.23	2.83	1.54	1.08	2.68	1.46	2.28	26.26
Evart	2.36	1.50	1.25	4.52	2.09	3.26	3.54	[2.11	1.04	2.14	.....	.....	.....
Fairview	1.62	3.99	2.03	2.87	1.53	2.70	0.72	1.32	1.04	3.48	2.98	2.07	26.35
Fitchburg	2.58	4.21	4.20	6.16	2.16	6.27	2.49	0.89	1.72	3.46	3.36	4.96	42.46
Flint	2.89	2.07	2.69	3.52	4.11	4.23	3.02	0.60	0.74	2.79	2.62	4.16	33.42
Gaylord	3.19	2.16	0.97	2.11	1.75	2.15	2.62	0.57	3.58	4.11	7.36	6.72	37.29
Glenwood	3.00	2.03	3.55	5.19	3.95	3.27	2.24	0.93	1.73	2.36	.....	.....	.....
*Grand Haven	4.13	2.17	2.47	4.53	2.57	3.12	3.10	0.57	3.50	2.53	2.65	3.63	34.97
Grand Rapids	.....	.....	.....	5.34	4.15	.....	.....	.....	3.27	3.20	3.50	6.95	.....
Grape	0.79	2.55	1.77	3.56	1.34	4.59	1.46	1.27	1.26	3.77	3.11	2.02	27.49
Grayling	2.75	2.30	1.36	1.77	1.45	0.97	2.07	0.95	2.85	.....	.....	3.40	.....
Hanover	2.28	3.59	3.58	6.41	2.29	4.74	2.74	0.59	2.65	3.34	2.87	3.25	38.33
Harbor Springs	3.46	3.20	1.70	2.25	3.18	0.78	5.25	1.57	2.49	[2.79]	2.34	5.61	[34.62]
Harrison	2.57	2.15	2.42	4.06	2.17	2.83	4.19	[2.89]	2.57	3.21	2.10	3.55	[34.71]
Harrisville	3.51	3.22	2.61	5.75	3.16	1.70	2.29	1.88	3.15	4.64	2.32	4.31	38.54
Hart	4.35	3.70	2.85	4.05	2.50	0.95	2.55	1.90	2.30	3.05	1.55	3.60	33.35
Hastings	2.54	2.95	3.21	5.76	3.62	5.50	2.28	0.44	3.39	4.41	3.48	2.89	40.53
Hayes	2.90	2.50	1.40	4.45	3.36	1.25	2.65	1.13	2.11	2.76	[2.40]	2.05	[29.95]
Highland Station	2.54	.....	2.13	6.82	2.00	5.89	0.86	0.58	2.26	.....	.....	3.39	.....
Hillsdale	1.60	1.20	0.74	4.22	2.21	.....	.....	.....	.....	.....	.....	.....	.....
Howell	2.40	3.49	2.83	5.32	2.36	4.37	1.63	0.75	1.95	3.64	2.57	3.34	34.65
Ivan	2.85	1.91	.....	2.40	1.93	0.92	.....	.....	.....	.....	.....	.....	.....
Jeddo	3.08	3.29	0.77	3.34	1.77	5.38	2.27	0.97	1.16	3.53	2.99	3.28	31.83
Kalamazoo	1.53	2.35	2.89	5.32	4.42	2.94	3.17	0.75	3.47	3.08	2.09	2.79	34.80
Lake City	2.10	1.80	.....	.....	4.03	.....	5.26	.....	.....	.....	.....	.....	.....
Lansing	1.84	2.31	3.78	5.30	4.08	7.19	0.98	0.73	2.34	4.55	2.46	3.96	39.52
Lathrop	.....	.....	0.93	2.80	3.55	1.73	3.78	5.80	1.35	3.35	1.60	3.85	.....
Lewiston	3.38	2.01	1.55	2.89	2.99	1.67	3.25	1.42	3.70	4.31	2.29	3.27	32.73
Lodi	.....	.....	.....	.....	.....	.....	4.35	1.26	.....	3.84	2.94	4.24	26.64
Lyons	3.18	1.81	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madison	1.83	3.55	2.40	4.18	2.18	3.37	1.84	0.56	1.34	4.46	3.73	3.02	32.46
*Manistee	2.51	1.85	1.69	3.71	2.55	1.90	3.27	1.07	.....	2.55	.....	.....	.....
*Marquette	2.27	1.93	3.00	2.31	3.89	1.38	5.22	2.56	0.53	2.92	3.96	5.89	35.86
Marshall	2.56	3.93	2.40	6.11	2.75	4.17	2.16	0.68	3.95	3.71	.....	.....	.....
Mayville	2.10	1.77	2.71	4.29	4.50	3.86	2.61	0.70	1.99	3.29	2.69	3.68	34.19
McMillan	3.10	1.40	2.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Montague	.....	.....	.....	.....	0.83	0.28	1.93	.....	.....	.....	.....	.....	.....
Mottville	1.09	2.39	3.65	4.99	3.05	2.64	2.94	0.47	3.23	2.40	2.95	2.70	32.41
Noble	2.24	3.01	3.23	.....	4.64	.....	.....	.....	.....	.....	.....	.....	.....
North Marshall	0.65	3.76	3.90	4.62	2.68	3.50	2.69	0.51	2.19	2.76	2.39	2.60	32.25
Olivet	2.03	1.32	2.95	4.39	2.85	3.60	1.77	.....	.....	2.70	2.66	4.15	.....
Ovid	2.21	3.51	3.31	4.94	4.20	4.40	2.53	1.41	1.85	4.20	2.51	3.40	38.27
Paris	2.19	2.45	.....	.....	.....	2.60	3.14	1.59	2.08	3.27	.....	.....	.....

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Michigan—Continued.													
Parkville	2.17	3.46	4.05	7.63	4.62	3.61	3.36	0.53	3.45	3.05	3.51	3.21	42.65
*Port Huron	2.24	3.57	1.47	3.71	2.50	4.43	2.04	2.16	0.90	5.25	3.00	3.53	34.80
Rawsonville	1.90	3.60	2.55	.....	1.60	4.40	1.95	2.50	1.65	4.67	4.35	.....	.....
Rockland	.....	.....	0.50	.....	.....	2.58	1.91	.....	1.55	2.98	2.76	3.15	.....
Romeo	.....	.....	1.42	4.20	1.39	.....	.....	.....	.....	.....	.....	.....	.....
St. Ignace	2.90	2.00	2.02	2.67	3.66	2.30	4.58	1.06	3.02	2.94	2.35	4.01	33.51
Sand Beach	1.20	3.90	0.51	4.14	4.25	2.13	2.02	2.17	2.05	5.94	2.57	2.90	33.78
*Sault de Ste. Marie	1.79	1.77	1.77	3.36	3.71	2.15	4.32	1.40	4.68	4.76	5.09	4.84	39.64
Stanton	.....	.....	.....	.....	.....	.....	2.02	0.50	2.80	2.97	1.97	3.40	.....
Stockbridge	.....	4.15	2.99	4.70	1.76	4.80	.....	0.86	.....	.....	.....	.....	.....
Thornville	2.76	2.16	1.33	5.12	1.33	3.87	2.99	0.92	1.06	4.84	3.15	3.27	32.60
Vandalia	3.66	3.37	3.55	5.39	4.12	4.17	2.36	0.90	3.24	3.27	3.38	3.39	40.80
Washington	2.23	3.06	1.33	3.77	1.45	.....	2.18	1.66	1.38	5.15	2.87	.....	.....
Williamston	1.45	3.80	2.40	4.20	3.05	5.05	2.10	0.70	[2.95]	3.75	2.60	3.50	[35.50]
Ypsilanti	2.56	4.20	2.18	4.58	1.97	4.32	2.18	2.30	1.68	4.59	4.14	3.60	38.30
Weidon Creek	.....	.....	.....	.....	1.60	.....	.....	.....	.....	.....	.....	.....	.....
Minnesota.													
Ada	0.98	1.01	0.85	2.86	1.71	2.01	4.46	[2.80]	0.76	1.10	0.32	0.45	[19.31]
Albert Lea	0.66	1.52	2.61	4.60	2.33	2.77	4.10	3.33	1.46	0.98	0.73	2.16	27.25
*Alexandria	1.38	1.40	2.10	4.20	3.44	3.29	2.77	5.64	2.20	0.67	0.52	0.78	28.39
Alma City	1.00	1.74	2.68	5.48	1.88	2.79	2.93	2.66	.....	.....	.....	.....	.....
Barrett	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.20	0.50	.....
Beardsley	.....	.....	.....	.....	.....	1.58	2.69	3.10	0.32	0.65	0.16	0.56	.....
Belle Plaine	.....	.....	.....	.....	.....	.....	.....	.....	3.75	1.40	0.58	2.35	.....
Bingham Lake	0.60	0.60	0.35	4.22	4.51	2.28	2.41	3.41	0.65	0.91	T.	[1.60]	[21.54]
Bird Island	1.65	1.35	1.34	5.43	2.31	[1.90]	[1.50]	2.19	1.95	0.89	0.47	0.46	[20.84]
Blooming Prairie	0.95	2.53	2.49	4.50	3.15	2.75	4.00	4.15	1.20	3.05	0.65	2.50	31.92
Bonniwells Mills	0.58	.....	1.60	.....	2.43	0.97	1.50	3.65	2.02	1.58	0.45	1.77	.....
Caledonia	1.65	2.27	3.05	5.77	2.81	.....	.....	.....	2.17	1.96	1.74	2.04	.....
Cambridge	0.89	1.05	1.26	5.11	3.17	1.14	2.50	2.85	1.16	1.76	0.52	1.13	22.54
Camden	0.32	0.53	2.34	6.96	3.48	2.68	1.40	1.38	1.15	0.69	0.20	1.92	23.05
Carver	.....	.....	.....	.....	.....	.....	.....	5.23	0.95	1.68	0.50	2.34	.....
Clear Lake	1.24	1.17	1.41	4.96	2.97	1.35	3.64	2.50	1.23	1.57	0.78	1.08	23.90
Clear Water	.....	.....	.....	.....	.....	.....	.....	.....	1.28	0.82	0.56	0.92	.....
Collegeville	0.42	0.57	0.87	6.85	1.91	1.70	4.21	3.01	0.26	0.49	0.68	0.59	21.56
Crookston [1]	1.48	.....	0.50	.....	.....	.....	.....	.....	1.34	1.43	.....	1.16	.....
Crookston [2]	.....	.....	.....	.....	.....	3.86	2.82	2.52	.....	.....	.....	.....	.....
Dawson	.....	.....	.....	.....	.....	.....	0.35	2.88	0.65	.....	0.85	1.56	.....
*Duluth	1.06	1.64	2.28	3.64	2.31	1.59	3.76	1.51	1.04	1.84	0.76	1.91	23.34
Easton	1.10	1.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Farmington	1.10	2.24	2.43	4.22	2.14	1.66	2.42	2.90	2.16	1.68	1.25	3.25	27.45
*Fergus Falls	0.96	0.91	1.00	3.59	1.65	1.49	4.76	4.00	1.46	1.41	0.26	0.71	22.14
Fort Francis, Canada	1.50	1.15	1.84	4.00	2.37	4.91	5.09	1.64	2.16	2.40	1.17	1.03	29.26
*Fort Ripley	0.92	0.97	0.43	4.40	2.42	3.39	3.63	4.54	1.21	0.75	0.60	1.06	24.38
Grand Meadow	1.02	2.50	1.55	4.10	2.17	3.86	3.50	3.29	0.69	1.27	0.45	1.41	25.61
Granite Falls	0.50	0.82	1.57	3.64	2.28	2.60	1.24	1.99	0.86	0.61	0.12	0.92	17.15
Hastings	.....	.....	.....	.....	.....	.....	.....	[3]1.49	.....	0.61	1.46	[3]1.16	.....
Holland	0.15	0.43	1.44	4.59	2.57	2.16	.....	.....	.....	.....	.....	.....	.....
Hutchinson	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.80	0.35	1.10	.....
Kinbrae	1.70	0.40	2.45	5.62	3.03	3.84	1.88	.....	.....	.....	.....	.....	.....
Lake Winnibigoshish Dam	0.92	1.25	1.51	2.90	2.60	1.86	4.48	5.46	1.80	1.09	1.32	0.72	25.91
Leech Lake	1.35	1.01	1.78	3.49	2.07	1.81	3.80	4.17	1.54	0.84	1.09	1.11	24.06
Long Prairie	1.55	1.20	1.30	5.67	2.95	1.04	2.48	5.27	1.28	0.41	1.25	0.80	25.20
Luverne	.....	.....	.....	.....	.....	1.50	2.89	1.46	0.65	.....	.....	.....	.....
Maple Plain	1.75	1.95	2.31	5.35	2.01	1.43	2.65	2.92	2.61	2.71	1.04	2.82	30.15
Marfield	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.03	1.08	.....
Mazeppa	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.00	0.80	3.58	.....
Medford	.....	.....	.....	.....	.....	.....	.....	2.88	[4]1.75	1.93	0.75	2.90	.....
Milan	.....	.....	.....	.....	.....	.....	.....	[5]1.82	0.80	0.15	0.45	0.62	.....
*Minneapolis	0.87	1.58	2.09	5.01	2.30	1.83	1.66	6.30	2.86	1.67	1.15	2.41	29.93
Minneapolis [3]	1.82	1.80	1.65	6.22	2.52	1.76	1.93	6.80	2.76	1.42	1.08	2.47	32.23
Minnesota City	1.20	1.20	[2.00]	3.74	2.30	1.27	2.44	2.79	1.31	2.81	1.10	2.13	[24.29]
Montevideo	1.56	1.11	2.09	6.14	2.21	1.09	1.56	3.16	1.20	0.40	0.29	0.82	21.63
*Moorhead	1.44	1.29	1.12	3.61	1.06	4.07	2.98	3.07	1.03	1.18	1.11	1.62	23.58
Morris	0.80	0.75	1.17	5.20	2.32	0.67	7.36	6.58	0.92	1.69	0.45	1.40	29.31
New London	.....	.....	.....	[4]4.80	3.06	1.55	3.99	2.71	1.03	0.20	0.70	0.96	.....
New Ulm	.....	.....	.....	.....	.....	.....	.....	.....	2.00	3.00	0.81	.....	.....
*Ortonville	1.20	1.10	3.50	5.48	2.24	2.05	2.97	2.62	0.17	0.69	0.50	0.80	23.32
Park Rapids	[6]1.17	1.15	1.56	5.19	1.64	4.71	1.86	4.24	1.40	2.10	0.50	0.92	26.46
Pine River	1.68	0.62	0.94	3.00	3.59	3.91	3.31	5.15	1.41	0.81	0.60	0.85	26.07
Pokegama Falls	1.62	1.39	1.35	2.87	2.17	3.22	5.70	4.04	1.23	0.69	0.92	1.04	26.24
Red Lake	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.23	.....
*Red Wing	0.92	2.84	2.31	4.14	2.17	2.28	2.63	2.18	.....	.....	0.45	3.15	.....
*Redwood Falls	0.64	1.55	2.36	5.06	2.61	1.76	1.62	2.02	1.27	1.07	0.30	0.80	21.06
Rochester	0.98	1.78	0.43	2.70	2.23	0.81	2.74	4.65	1.31	2.55	0.40	2.46	23.09
Rolling Green	1.00	1.67	3.48	5.27	4.91	1.65	2.80	3.57	1.02	1.50	0.90	1.95	29.72
Royalton	.....	.....	.....	.....	.....	.....	.....	.....	0.50	0.30	1.20	.....	.....
St. Charles	1.20	2.75	2.25	5.27	2.91	2.00	3.97	2.16	1.84	3.56	0.92	1.90	30.73
St. Cloud	[1.90]	[0.90]	0.90	5.74	2.62	0.54	3.67	2.41	0.81	1.68	0.81	1.36	[22.44]
St. Olaf	2.00	0.86	1.28	3.38	1.66	0.84	3.36	5.91	1.90	0.68	0.32	0.45	22.64
*St. Paul	0.73	1.87	1.96	5.30	2.66	2.00	1.68	2.40	2.70	1.49	0.81	2.35	25.95
St. Peter	.....	.....	.....	.....	1.90	3.18	3.23	1.62	0.87	1.36	0.59	1.33	.....
*St. Vincent	1.50	1.00	0.45	2.56	2.00	5.20	2.16	2.48	1.30	0.76	0.52	0.30	20.23
Sandy Lake Dam	2.63	1.00	2.03	4.56	1.63	0.23	2.61	4.99	0.95	T.	0.72	2.22	23.67
Sauk Center	.....	.....	.....	.....	.....	.....	2.21	3.16	0.80	0.15	0.70	1.20	.....
Sheldon	1.32	1.60	2.44	5.26	.....	.....	.....	.....	.....	.....	.....	.....	.....
Starbuck	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.30	0.77	.....
Wabasha	1.70	3.08	2.93	4.66	2.32	1.61	2.13	2.28	2.00	2.59	1.06	4.08	30.44

[1] W. N. Fegan. [2] John Ross. [3] Wm. Cheney.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Minnesota—Continued.													
Waconia									2.29	2.00	1.30		
Wadena								[d]7.65	[g]1.14	[h]0.33			
Warren										0.53	0.40	1.20	
Willmar	[0.80]	[1.00]	0.90	4.26	3.49	2.02	1.43	3.37	1.37	1.02	0.40	0.98	[21.04]
Winona	1.35	2.20	2.19	4.34	2.88	1.60	3.33	1.31	2.30	2.84	1.42	2.46	28.22
Worthington												3.10	
Mississippi.													
*Aberdeen	2.35	7.05	2.71	4.95	7.64	4.60	2.43	1.73	7.15	0.45	3.31	4.61	48.98
Agricultural College	2.06	5.11	2.56	1.87	7.11	1.25	2.28	2.89	8.34	0.54	2.99	3.17	40.17
*Batesville	5.40	4.95	2.00	7.40	13.49	7.67	2.33	3.02	8.27	0.28	5.26	3.09	63.16
Biloxi					2.79	9.18	4.17	6.15	9.21	8.00	5.84	1.54	
Briers	1.72	4.32	1.77	2.88	8.00	5.18	5.38	5.20	1.85	1.89	5.76	5.53	49.48
*Brookhaven	1.77	6.87	3.12	3.40	11.28	6.93	2.77	2.87	3.71	1.83	5.72	6.35	56.62
Canton	2.61	3.98	5.21	2.41	7.16	4.62	3.86	2.33	2.82	0.97	4.57	5.40	45.94
Clarksdale	0.82	5.36	1.68	8.97	9.01	4.64	1.99	3.40	5.37	0.10	5.06	2.86	49.26
*Columbus [1]	3.26	5.18	2.99	3.21	6.55	3.84	1.34	4.53	5.03	0.82	2.68	4.09	43.32
*Columbus [2]			3.06		7.12	4.52	1.90	4.08	5.67	0.88	2.61		
*Corinth	1.54	5.02	2.40	7.76	10.11	7.51	2.42	2.33	5.52	0.30	4.01	1.32	50.24
Crystal Springs	2.56	5.05	4.23	3.21	9.35	6.24	0.52	4.15	2.90	1.20	4.49	6.82	50.81
Duck Hill	[k]1.82	5.00		[d]3.06	7.52		2.28	2.76	5.22	1.86	3.61	3.18	
Edwards		4.33	4.66	2.14	7.50	4.10	6.19	7.45		2.11	4.63	6.11	
Enterprise	2.33	5.25	3.87	2.26	5.97	4.65	3.72	6.50	3.26	1.05	4.08	6.48	49.42
Fayette	2.54	4.79	2.47	3.57	8.47	6.10	4.49	6.79	4.34	2.52	4.75	6.52	57.35
French Camps									8.77	0.48	2.95	4.36	
Greenville [3]	4.63	5.27	2.70	5.09	7.39	7.65	2.33	2.87	2.67			1.87	
*Greenville [4]	4.38	5.27	2.70	5.67	7.32	7.71	2.43	2.79	2.71	0.34	6.32	1.87	49.51
Hattiesburg	4.40	4.41	3.22			4.40	5.82	8.04	5.84	1.01	6.90	3.31	
*Hazlehurst					13.61	8.21	4.85	6.11	4.20	1.23	4.63		
*Hernando					7.54	5.04	1.23	0.42	4.35	0.42	2.79	2.10	
*Holly Springs					11.96	4.12	2.18	1.39	4.88	0.65	3.04		
Itta Bena							2.82	3.08	2.11	0.58			
*Jackson					8.66	1.79	4.20	4.14	2.12	1.25	4.06	3.28	
Kosciusko	0.80	3.70	4.10	2.20	5.98	3.16	4.75	1.82	4.92	0.00	2.60	3.40	37.43
*Lake	2.98	7.71	4.51	2.74	7.63	2.84	4.81	6.63	6.05	1.32	3.97	5.14	56.33
Logtown	4.50	3.17	6.19	2.30	3.14	7.25	4.49	3.39	10.98	5.54	5.02	2.09	58.06
Louisville	2.60	4.50	3.72	1.44	5.82	1.35	3.70	2.06	5.97	0.95	3.70	5.13	40.84
*Macon	1.52	3.65	3.32	1.94	9.59	5.27	3.00	6.57	4.70	0.55	4.40	5.78	50.29
McComb									4.46	1.19	[c]4.84	5.55	
*Meridian	1.74	8.43	5.03	1.14	10.24	5.59	2.75	2.77	5.28	1.68	4.46	7.21	56.32
Moss Point		5.40	4.55	3.55	3.95	5.85	5.45	15.75	9.40	3.00			
*Natchez		3.88			8.97	5.35	3.53	3.66	2.60	2.46			
*Okolona	2.37	4.54	2.42	2.06	7.57	4.05	2.45	3.35	10.98	0.57	2.40	3.15	46.51
Palo Alto	1.61	4.20	2.11	4.26	7.71	2.33	1.20	3.83	8.20	0.42	2.43	4.20	42.50
Pontotoc	4.30	4.11	2.96	8.27	7.85	5.84	1.31	4.70	4.85	0.95	3.99	3.93	53.06
*Port Gibson		3.16	2.84	2.30	9.18	8.68	4.00	3.74	3.73	2.13	4.94	5.52	
Ship Island	4.90	3.37											
Thornton							4.45	7.20	2.66	2.02			
Topton							3.75	2.60	8.20			4.55	
University		3.22	2.26	8.36	11.38	6.09	1.78	1.32		0.60		1.40	
Vaiden	1.86	4.89	3.24	2.98		3.92	3.05	4.99	3.41	0.84		4.06	
*Vicksburg	2.68	4.05	3.91	3.05	9.57	4.84	4.71	2.88	1.01	1.50	4.62	4.60	47.42
Washington	2.42	4.30	1.71	2.39	9.96								
Water Valley	1.57	5.74	3.00	8.01	10.42	6.76	1.45	0.72	9.14	1.07	5.48	1.69	55.05
Waynesboro [5]			2.67		8.46	5.72	6.15	2.68	6.20	1.15	4.15	3.15	
*Waynesboro [2]					9.83	5.81	6.40	4.44	5.94				
Woodville			2.05	5.60	8.03	4.37	0.21	4.50	3.70	0.91	6.07	3.19	
*Yazoo City	4.57	4.26	4.30	3.30	5.83	4.08	7.39	4.78	3.38	1.46	4.32	4.19	51.86
Missouri.													
Akron		0.92	1.78	5.51	4.38	5.35	5.97	4.09	[e]2.46			0.92	
Annapolis	0.20	2.99											
Appleton City	0.50	1.65	3.25	8.64	5.64	4.59	3.92	1.29	3.28	0.08	1.23	0.60	34.67
*Arlington	0.31	0.93	2.96	8.57	4.30	4.90	4.80	2.31	4.33	0.40	1.60	0.95	36.36
Arthur	0.20	0.94	1.84	9.68	4.65	6.72	2.58	2.08	4.86	0.20	1.90	0.25	35.90
Bethany	0.40	1.60	1.84	5.00	4.81	4.31	4.66	4.02	4.88	0.33	0.89	1.06	33.80
Big Piney	0.89	0.95	1.60	10.22	4.82	3.60	6.45	3.90	5.72	1.11	1.40	1.09	41.75
Birch Tree								3.02	3.53	1.08	2.48	1.74	
Bluffton									2.35	0.27	1.52	0.76	
*Booneville	0.63	1.84	2.85	12.55	8.76	7.08	11.32	0.71	2.14	1.87	1.50	1.75	53.00
Brunswick	1.75	1.40	2.27	6.09	6.47	6.89	6.08	1.00	2.61	0.60	2.07	3.85	41.08
Bryant		1.05	3.88	5.22	6.25	2.41	4.77						
Cabool		2.60	4.77	10.13	4.84	4.20	3.85	3.07	8.10				
Canton	0.92	2.17	1.82	6.50	5.77	1.29	2.05	1.58	2.64				
*Cape Girardeau	0.40	3.27	2.00	5.73	3.50	4.65	1.25	1.00	2.60	2.30	1.10	1.01	28.81
Carrollton	0.65	2.96	2.22	7.43	6.02	3.75	11.28	1.33	4.04	0.15	2.43	0.36	42.62
Carthage	0.49	1.47	2.01	7.66	5.91	4.24	0.69	4.18	6.27	1.22	0.89		
*Columbia	0.39	1.97	2.82	11.30	6.00	6.83	6.63	0.94	3.45	0.59	1.16	0.55	42.63
Conception	0.43	2.77	3.92	5.30	5.65	7.08	5.00	4.71	4.05		1.01	0.72	40.64
Cowgill	0.60		1.10	5.62	4.79	3.04	5.88	2.12	5.08	0.20			
Dadeville	0.20	1.65	2.51	9.32	11.52	4.96	1.68	1.71					
Darksville	1.00	1.96	1.90	4.15	5.99	5.83	5.27	1.62	2.05	0.92	1.72	0.75	33.16
Dixon			3.51	12.19	7.09	5.35	4.16	3.15	5.84				
Downing								2.51			[e]1.74	0.65	
East Lynne	0.42	1.22	3.14	6.93	8.41	3.00	5.48	1.39	4.22	0.20	1.56	0.29	36.26
Edge Hill	0.42	3.22	4.33	9.36	7.21	5.11	3.95	1.00	4.08	1.50	2.71	0.97	43.86
Edina	1.24	1.85	2.27	5.98	5.83			2.05					
Eight Mile	0.55	1.22	2.96	7.33	8.52	3.29	5.05	1.14	3.87	0.30	1.52	0.21	35.96
Eldon	0.16	2.20	3.56	12.82	7.44	4.06	8.07	1.80	3.02	1.44	1.52	0.93	47.02

[1] Special river observer. [2] Cotton region observer. Robert Somerville. [3] W. S. Davis. [4] Cotton region and special river observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Missouri—Continued.													
Emma	0.85	0.80	1.64	5.37	6.77	3.35	11.93	1.10	2.60	0.60	1.37	0.20	36.58
Fairport								6.17	4.85	0.39	0.72	0.95	
Farmersville	0.33	1.63	1.35	7.11	5.66	4.95	6.50	3.54	5.85	0.46	1.15	1.17	39.70
Fayette	0.55	1.73	2.45	10.70	7.27	7.03	7.45	1.08	1.94	1.73	2.13	0.64	44.70
Fox Creek	0.48	2.50	5.02	10.35	7.03	4.17	2.30	1.93	4.34	0.87	1.57	1.53	42.09
Fulton	0.58	1.35	2.89	9.72	6.26	7.79	3.64	1.94	2.94	0.73	1.53	0.86	40.23
Gainesville	0.77	3.64	4.67	7.70	4.62	2.97	5.58	3.38					
Gallatin	0.28	2.12	2.00	5.88	5.26	6.65	7.21	4.28	7.04	0.41	1.12	1.84	44.09
Gayoso	0.54	5.36					2.80	0.92	7.30	3.30	4.72	2.61	
Glasgow	0.74	1.07	2.50	7.54	5.50	8.58	6.52	0.54	2.40	1.34	2.00	0.30	39.03
Glensted	0.60	1.00	2.70	17.49	6.74	3.00	10.60	2.28	1.58	2.00			
Gordonville	0.73	3.14	3.12	8.11	7.39	7.20	0.45	1.68	4.76	6.26	2.44	2.17	47.45
Gorin	0.65	1.38	2.32	5.76	4.46	3.22	2.59	1.89	3.40	0.80	1.83	0.60	28.90
Grove Dale	0.39	1.56	3.69	11.10	6.39	6.24	5.93	2.55	3.99	0.56	1.50	1.36	45.26
Half Way									4.43	2.09	1.42	1.27	
*Hannibal	0.54	2.12	2.64	6.06	7.04	5.19	1.50	0.54	1.47	0.50	1.25	0.37	29.22
Harrisonville	0.27	0.94	3.11	5.56	7.09	3.43	4.06	1.92	4.09	0.03	1.48	0.29	32.27
Hastain	0.62	1.82	3.33	10.48	5.74	3.21	6.74	0.48	2.05	0.64	1.48	0.77	37.36
*Hermann	0.58	3.51	3.58	9.70	5.81	5.98	4.50	2.33	2.99	0.49	1.57	1.02	42.06
Houston	0.11	1.33			4.48	7.06	4.43	1.64	7.51	0.58	1.91	0.51	
Humansville			3.05	9.85	7.39	5.25	6.74	0.27	4.67	1.08	1.25		
Ironton	0.50	3.45	4.78	8.68	7.25	5.46	3.82	2.36	4.42	2.36	2.37	1.02	46.47
Jefferson City	0.20	0.20	1.62		6.58	4.68	6.96	2.20	a 1.59	0.80	1.80	0.47	
*Kansas City	0.27	1.73	2.75	4.28	6.67	5.06	4.24	1.78	3.48	0.16	1.28	0.43	32.13
Kidder	T.	0.87						4.16	5.12	0.15	1.00	0.70	
Lamar	0.43	0.89	2.60	10.56	3.43	4.05	2.31	2.06	5.96	0.07	1.48	0.46	34.30
Lamonte	0.42	1.31	2.15	8.57	7.18	3.90	9.74	0.91	2.37	0.70	1.86	0.31	39.42
Langdon	T.	0.90	1.81	1.24	4.40	4.25	5.48				0.80		
La Plata									3.66	2.62	1.84	0.91	
Lebanon	0.35	2.34	3.36	13.17	5.76	2.89	5.67	2.35	4.58	0.53	1.61	1.25	43.76
Lexington	0.32	0.98	1.73	6.77	6.21	2.45	18.30	0.86	3.37	0.06	1.78	0.15	42.98
Liberty	0.15	1.79	2.66	5.23	5.95			2.39	4.12	0.17	1.12	0.79	
Linn Creek	0.20	1.78								0.23	1.17	0.80	
Louisiana Bridge	0.90	1.60	2.45	7.77	5.07	3.84	2.70	0.35	1.55	0.51	1.06	0.13	27.03
McCune	0.85	3.44	3.50	7.84	4.04	4.31	3.43	0.69	2.11	0.38	1.08	0.33	32.00
Malden	0.00	1.05	3.20	8.45	12.10	8.30	1.60	0.80					
Mansfield	0.35	2.17	3.88	9.08	6.12	2.58	2.75	3.92					
Marble Hill	0.39	4.54	2.68	8.85	8.15						2.75		
Marceline				5.75	5.49	5.57	6.42	1.85	3.96	0.73	2.11	0.70	
Marshall	0.40	1.23	2.21	6.39	6.20	4.49	10.85	0.79	3.65	0.49	1.94	0.25	38.89
Mexico	0.74	2.04	2.68	8.46	8.51	6.70	3.38	1.24	2.41	0.44			
Miami	0.92	1.50	3.25	6.93	5.34	6.52	5.33	0.76	2.57	0.57			
Mine La Motte	0.11	2.94	3.31	7.98	6.51	5.57	1.68	0.75	4.02	1.49	1.93	1.00	37.19
Mound City	0.20	1.33	1.62										
Mount Vernon	0.07	2.28	2.22	6.37	3.80	3.99	2.18	2.87	6.92	1.51		0.50	
Neosho	0.55	2.27	2.45	9.00	4.92	2.46	4.57	4.75	4.46			1.65	
New Boston	0.08	1.89	2.32	6.12	8.45	7.01	3.22		3.53	0.54	1.44	T.	
New Hartford	0.46	2.84	3.45	8.69	7.35	5.95	2.47	0.50	3.03	0.35	1.26	0.53	36.88
New Haven	0.78	1.68	3.13	10.38	5.99	6.30	3.54	1.48	2.59	0.60	1.38	1.15	39.00
New Madrid								1.15	6.10	4.49	3.59	2.17	
New Palestine	0.13	0.60	2.29	8.88	4.59	6.73	9.75	1.01	1.34	1.12	1.71	0.10	38.25
Oakfield	0.34	2.26	5.02	11.08	7.11	3.07	3.48	1.08	3.38	0.86	1.59	1.03	40.30
Oak Ridge	0.40	2.75	2.80	8.83	6.50	4.30	0.30	0.90	4.10	0.63	1.40	1.71	34.62
Olden	0.26	3.97	4.23	8.04	5.43	4.53	5.80	1.96	3.77	1.10	2.74	1.66	43.49
Oregon [1]	0.35	1.37	2.32	3.12	3.25	3.36	6.61	6.11	4.84	0.15	1.06	0.87	33.41
Oregon [2]	0.35	1.07	2.07	3.02	3.15	3.49	6.60	5.86	4.76	0.33	1.15	0.95	32.68
Osceola				11.48	6.58	4.63	4.12	0.79	4.32	0.87	1.52		
Oto		1.81	3.60	8.20	4.29	2.80	2.35	5.00	4.29			0.75	
Palmyra	0.65	2.82	2.85	6.50	7.75	4.15	2.50	1.50	2.10	0.50	1.40	0.70	33.45
Panacea				10.89	5.00	2.28	3.49	3.00	2.87	0.79	1.86	1.92	
Paris	0.85	2.90	3.77	3.50	6.52		2.74						
Phillipsburg	0.40	1.40	1.87	8.93	5.07	2.82	4.72	2.35	6.52	1.28	1.54	0.50	37.40
Pickering	0.30	1.55	1.81	3.71	4.05	3.93	7.87	5.55	5.94		1.12	1.20	
Platte River	0.30	1.46	2.17	3.36	5.15	5.95	9.76	3.48	4.51	0.16	0.73	0.59	37.62
Poplar Bluff	0.28	5.08	3.29	10.97	9.11								
Potosi									5.74	0.77	1.02	1.18	
Princeton	0.35	1.86	2.28	5.46	4.12	4.95	5.78	3.54	4.82	0.35	0.70	1.27	35.48
Rea	0.20	0.80	1.95	3.45	5.13	5.56	4.60	6.63	3.08				
Rolla	0.42	1.75	3.67	11.71	5.92	5.31	5.09	2.23	5.68	1.10	1.87	1.40	46.15
Round Spring			2.36	9.77	5.03	3.68	4.25	0.96	6.28	0.37	2.84	1.18	
St. Charles	0.38	3.37	3.18	11.01	5.91	3.27	3.76	1.03	3.14	0.69	1.58	0.89	38.21
*St. Joseph	0.30	1.53	1.50	3.18	3.80	2.35	7.61	5.81	3.35	0.10	0.72	0.18	30.43
*St. Louis	0.33	2.98	5.10	10.84	5.42	3.49	2.49	0.65	3.69	1.66	1.36	1.32	39.33
St. Louis [3]	0.19	2.65	4.67	11.34	5.85	4.34	3.53	1.06	3.50	1.64	1.56	1.29	41.02
Sarcoxie							2.99	2.93	3.87	2.06	1.58	1.11	
Sedalia	0.64	1.63	2.67	10.06	7.09	3.40	10.21	1.29	1.86	0.88	2.16	0.87	42.76
Shelbina	0.07	4.50	3.70	6.50	6.50	5.50	4.50	1.50	2.50	0.70	1.20	0.30	37.47
*Springfield	0.34	2.19	3.02	8.32	5.79	4.40	5.79	1.11	5.91	1.15	1.54	0.99	40.55
Stanberry	0.20	1.48	2.34	4.49	4.62	4.48	4.26						
Steelville	0.28	1.56	3.59	12.05	7.67	7.06	5.75	0.86	7.09	0.23	2.70	1.62	50.46
Steffenville	0.70	2.55	2.43	7.80	8.08	4.74	2.21	1.90	1.97	1.03	1.70	1.66	36.77
Stella	0.30	0.87	2.43	8.77	8.52	4.19	7.76	1.19	2.57	1.15	1.45	0.22	39.42
Sublett	0.32	3.15	2.79	8.21	6.50	2.94	3.05	3.77	4.10	0.84			
Tindall								3.03	4.74	0.90			
Unionville			1.67	5.90	4.89	2.71	3.22	4.22	3.91	0.11	0.50	0.03	
Vancleve	0.28	0.30	4.20				5.00	2.04	4.00	1.40	0.08	0.23	
Vermont	0.56	2.14	1.91	10.77	6.03	5.13	10.43	1.33	0.89	1.27	1.86	0.31	42.63
Vilas	0.52	1.45	1.97	4.58	4.21	4.94	5.61	5.21	5.15	0.06	0.88	0.64	35.22
Virgil City		0.96	2.60	9.21	4.07	3.40	2.48	1.80	4.34	0.28	1.65	0.35	

[1] Wm. Kaucher. [2] S. M. Ruley. [3] F. W. Duenckel.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Missouri—Continued.													
Warrensburg	0.41	1.29	2.59	7.07	6.36	3.94	9.80	0.91	2.44	0.75	1.74	0.13	37.53
Warrenton	0.44	3.50	3.58	10.74	6.39	6.59	3.87	1.44	3.56	0.56	1.44	1.14	42.75
Wellsville	0.15	0.70	4.34	.....	8.58	.....	.....	.....	.....	.....	.....	.....	.....
West Plains	0.00	1.86	.....	6.72	4.05	2.75	.....	.....	.....	.....	.....	.....	.....
Wheatland	0.13	1.03	3.94	12.61	5.46	4.20	5.78	0.20	4.07	1.13	1.54	0.90	40.99
Whiteside	0.36	1.30	4.49	10.42	.....	.....	2.72	0.61	3.13	0.40	1.30	.....	.....
Montana.													
Boulder	1.53	0.20	0.08	1.31	1.16	1.24	0.38	0.35	1.76	0.57	0.54	0.45	9.57
Bozeman	0.39	0.37	0.60	0.86	3.16	.....	.....	.....	.....	.....	.....	.....	.....
Camp Poplar River	1.21	0.70	0.10	2.00	4.60	0.70	3.35	0.40	0.80	.....	.....	.....	.....
Chotean	1.50	0.60	0.40	0.95	1.74	0.58	0.41	0.17	1.93	1.45	2.10	1.00	12.83
Cokedale	1.70	1.40	0.55	4.50	2.28	1.23	0.51	.....	2.06	2.10	3.49	4.09	.....
Columbia Falls	.....	.....	0.95	2.68	.....	.....	.....	.....	.....	.....	.....	.....	.....
Corbin	.....	.....	0.06	2.14	0.47	.....	.....	.....	.....	.....	.....	.....	.....
Deer Lodge City	0.84	0.30	0.16	1.18	0.98	.....	.....	.....	.....	3.39	0.93	0.85	.....
Dry Forks	.....	.....	0.06	0.75	2.20	2.20	1.11	0.43	1.78	0.67	.....	0.05	.....
Elk Park	0.80	0.40	0.08	.....	.....	.....	.....	0.46	4.39	1.84	3.58	0.03	.....
Fort Custer	0.67	0.72	0.35	0.52	6.89	1.62	0.80	0.00	0.60	0.45	1.68	0.20	14.50
Fort Keogh	0.60	0.37	1.15	0.38	2.35	0.65	1.25	0.10	2.21	0.85	0.49	0.82	11.22
Fort Logan	0.96	0.15	0.21	1.64	1.63	2.26	.....	.....	2.18	.....	1.05	0.37	.....
Fort Missoula	1.95	1.96	0.16	2.00	2.13	1.48	1.42	0.65	2.50	3.01	1.78	3.32	22.36
Glendive	1.52	0.30	0.50	0.89	2.66	1.25	0.99	0.53	1.50	0.95	1.25	0.70	13.04
Great Falls	1.61	0.39	0.50	0.82	3.49	1.99	0.52	0.11	1.92	0.90	1.33	0.38	13.96
*Havre	1.23	0.34	0.42	1.14	1.80	1.20	1.77	1.16	1.67	1.40	0.80	0.38	13.31
*Helena	1.72	0.58	0.14	2.31	3.04	0.82	0.86	0.46	2.69	0.84	1.44	0.58	15.48
Hogan	1.30	0.50	0.30	1.30	1.10	1.21	1.27	0.70	1.58	1.80	1.60	0.50	13.16
Horr	0.55	0.21	0.36	.....	.....	.....	.....	1.34	1.46	0.93	.....	.....	.....
Martinsdale	2.60	0.55	0.45	0.69	1.76	1.78	0.99	0.11	2.61	1.20	2.35	0.90	15.99
*Miles City	0.57	0.44	0.47	1.45	4.07	1.67	1.25	0.05	1.89	1.25	0.50	0.55	14.16
Mingusville	.....	.....	T.	T.	2.61	2.11	0.74	0.77	.....	.....	.....	T.	.....
Musselshell	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.78	.....
Powder River	.....	0.47	1.04	1.54	3.77	2.05	0.20	0.06	0.80	1.06	0.85	0.05	13.39
Virginia City	0.31	0.53	0.34	0.76	1.12	0.93	0.74	0.70	3.91	1.06	0.29	0.69	11.38
Nebraska.													
Agee	0.35	0.91	1.86	2.56	2.28	2.37	2.78	0.44	0.47	0.53	0.43	0.56	15.54
Albion	T.	.....	1.65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ansley	0.25	0.80	1.80	0.82	2.39	.....	.....	.....	1.20	0.00	T.	.....	.....
Arborville	0.05	1.30	1.75	0.67	2.67	2.82	2.14	3.48	2.72	.....	0.75	0.97	.....
Arcadia	0.00	0.50	1.70	0.75	2.73	.....	.....	.....	.....	.....	.....	.....	.....
Ashland	0.05	0.37	0.85	1.13	4.71	7.27	3.92	6.43	2.35	0.05	0.64	0.65	28.42
Ashton	0.03	0.42	1.11	0.74	3.22	1.61	1.65	0.43	1.47	0.43	0.11	0.95	12.17
Auburn	0.21	1.15	1.44	1.17	.....	4.96	3.13	.....	.....	.....	.....	.....	.....
Bassett	T.	0.60	1.31	4.14	2.22	2.20	1.75	1.48	0.22	0.06	0.46	1.30	15.74
Beatrice	T.	1.87	1.15	0.39	1.96	2.81	3.12	6.54	2.68	0.49	0.57	1.34	22.91
Beaver City	T.	0.55	0.25	0.36	1.56	4.67	4.49	3.57	1.66	0.45	T.	0.52	18.08
Belvidere	.....	0.52	1.35	0.40	.....	3.50	.....	.....	.....	.....	.....	.....	.....
Bratton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.00	0.47	.....
Burwell	0.25	0.91	3.13	1.20	1.17	1.98	3.80	2.18	0.40	0.20	0.25	0.22	15.69
Callaway	T.	0.29	1.67	0.94	2.53	2.79	1.36	1.28	0.60	0.39	0.05	0.79	12.69
Columbus	.....	.....	.....	.....	.....	.....	2.12	1.72	2.18	a 0.18	0.28	1.36	.....
Cooleyton	.....	.....	0.50	4.65	.....	5.80	2.05	0.60	0.70	.....	.....	.....	.....
Cornlea	0.08	0.93	1.53	2.40	5.71	2.23	3.91	1.15	1.45	0.21	0.49	1.58	21.67
Creighton	0.86	0.55	1.85	2.53	3.25	4.08	6.43	1.06	0.82	0.42	0.20	1.65	23.50
Crete	0.04	1.22	1.98	0.61	.....	.....	3.60	3.78	2.36	0.13	0.34	0.47	.....
*Culbertson [1]	0.14	0.61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Culbertson [2]	.....	.....	.....	.....	1.44	2.73	2.16	4.48	0.76	0.25	T.	0.20	.....
Curtis	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.00	0.25	.....
David City	0.60	1.40	4.20	1.75	3.30	4.50	3.40	3.20	2.25	0.15	0.55	1.05	26.35
De Soto	0.21	0.91	1.22	1.85	4.69	3.18	4.79	1.67	1.25	0.16	0.46	[1.00]	[21.39]
Dunning	T.	0.45	0.75	1.86	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ericson	0.01	0.91	1.70	1.91	2.99	1.97	2.08	2.38	0.70	0.26	T.	0.50	15.41
Ewing	0.12	0.52	1.77	0.84	.....	.....	5.10	1.55	0.74	0.21	0.06	0.72	.....
Fairbury	0.02	0.70	1.64	0.60	2.95	2.68	4.40	4.59	2.13	0.32	0.79	0.90	21.72
Fort Robinson	0.44	0.26	1.19	1.30	0.72	1.95	1.66	1.46	0.14	0.46	0.23	1.05	10.86
Fort Sidney	0.00	0.40	0.28	0.33	1.76	1.85	0.94	1.96	0.00	0.37	0.13	0.65	8.67
Franklin	T.	0.40	0.53	0.29	3.36	2.45	4.82	3.95	2.38	0.68	0.80	0.75	20.41
Fremont	0.28	0.95	1.72	2.38	3.85	4.00	4.58	4.51	.....	.....	.....	.....	.....
Geneva	0.02	0.27	1.40	0.63	7.44	4.57	2.74	5.79	3.34	0.31	1.05	1.01	28.57
Genoa	0.19	1.03	1.72	2.22	5.11	3.23	4.45	1.48	2.13	0.49	0.72	2.04	24.79
Gering	0.25	0.45	0.32	0.77	0.77	1.89	1.01	2.29	0.05	0.52	0.17	1.33	9.82
Glenwood	.....	.....	.....	1.03	3.99	1.41	4.50	2.16	1.51	0.13	0.10	0.94	.....
Haigler	T.	0.35	0.60	0.10	1.74	.....	3.11	0.00	0.04	0.30	0.27	T.	.....
Harrison	.....	.....	0.50	1.55	0.87	.....	.....	1.38	0.17	.....	.....	.....	.....
Hartington	0.61	1.50	1.73	4.05	1.95	0.79	3.02	2.57	1.33	0.85	1.26	2.35	22.01
Harvard	0.10	1.05	1.39	0.73	.....	5.85	1.37	3.52	2.49	0.11	0.50	0.98	.....
Hay Springs	0.20	0.85	2.36	1.43	.....	.....	1.00	1.06	0.10	0.61	0.29	1.16	.....
Hebron	0.07	0.30	0.71	0.56	2.76	3.67	2.98	3.05	1.79	0.17	0.98	0.42	17.46
Holdrege	0.09	0.53	0.55	0.39	3.85	3.41	2.49	2.84	1.49	0.50	0.10	0.91	17.15
Imperial	.....	0.60	0.80	0.00	1.87	3.00	1.50	1.75	0.00	0.50	0.20	0.20	.....
Indianola	.....	0.75	T.	T.	2.23	3.80	3.47	1.33	0.85	0.41	T.	0.30	.....
*Kearney	0.16	1.10	1.37	0.40	7.49	4.99	2.89	1.37	1.46	0.42	0.04	1.17	22.86
Kennedy	0.10	1.40	1.20	1.27	1.81	5.44	1.80	0.28	0.10	0.11	0.21	0.73	14.45
Kimball	0.10	0.65	.....	0.74	1.28	0.61	0.99	0.96	.....	T.	0.10	0.85	.....
Lexington	T.	1.40	1.58	2.90	3.46	2.74	2.24	1.78	1.00	0.50	0.15	1.32	18.47
Lincoln	0.21	0.83	0.97	0.39	2.31	4.27	2.15	5.51	2.07	0.01	0.48	0.54	19.74
Lynch	.....	.....	.....	3.55	2.81	2.20	4.23	0.73	1.00	0.36	0.68	0.72	.....

[1] Special rainfall observer.

[2] Mrs. L. A. Wibley.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nebraska—Continued.													
Madrid	T.	1.00	0.95	0.10	1.09	3.08	1.01	2.20	0.11	0.55	0.30	0.58	10.97
Marquette	0.27	1.58	1.19	0.44	3.35	3.54	3.30	2.35	2.53	0.22	0.77	1.13	20.76
Minden	0.05	2.14	1.98	0.60	5.61	4.54	5.69	1.83	1.48	0.72	0.48	1.60	26.72
Mullen	0.01	1.10	1.74	0.60	2.52	2.86	0.55	0.25	.....	T.	0.16	0.62	.....
Nebraska City	0.00	.....	1.87	0.63	2.42	3.94	5.68	3.57	1.77	.....	.....	.....	.....
Nesbit	T.	T.	0.70	0.15	2.12	3.69	0.51	1.74	0.27	0.00	0.15	0.46	9.79
Norfolk	0.00	1.12	2.35	2.55	3.83	1.18	5.62	1.62	1.15	0.40	0.35	1.71	21.88
North Loup	0.06	0.66	0.97	0.94	2.82	2.16	4.02	1.27	0.91	0.36	0.12	1.17	15.46
*North Platte	0.03	0.62	1.29	0.15	1.33	4.11	1.13	3.62	0.32	0.05	0.11	0.40	13.16
Oakdale	0.15	0.89	1.96	.....	.....	1.02	.....	1.20	.....	.....	.....	.....	.....
Ogallala	.....	.....	.....	.....	0.78	2.37	0.55	0.67	.....	.....	.....	.....	.....
*Omaha	0.28	0.97	1.29	3.12	3.84	7.11	3.03	3.62	1.72	0.12	0.43	1.13	26.66
O'Neil	0.40	1.20	1.80	2.19	2.34	2.97	2.98	0.62	0.98	0.14	0.40	0.65	16.67
Ough	0.10	0.90	0.62	0.16	2.00	2.12	1.07	1.87	0.23	0.18	0.01	0.14	9.40
Paddock	d0.22	0.76	2.23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Palmer	0.10	0.70	1.50	0.50	3.95	1.70	2.30	3.05	1.90	0.45	0.30	1.10	17.55
*Plattsmouth	0.33	1.37	1.35	1.90	5.71	5.17	5.05	4.02	1.71	0.54	0.49	1.00	28.64
Ponca	.....	.....	1.20	2.95	3.04	2.00	4.85	.....	.....	.....	.....	.....	.....
Ravenna	0.05	1.27	1.87	0.99	4.27	2.92	2.39	0.85	1.26	0.66	0.21	1.39	18.13
Red Cloud	T.	0.15	0.40	0.28	2.79	4.84	2.85	2.24	2.57	0.34	0.18	0.88	17.52
Santee Agency	0.30	0.90	1.66	3.50	1.76	1.95	4.23	1.75	0.93	0.47	0.44	1.05	18.94
Seward	0.09	0.82	1.34	0.65	3.78	2.49	2.70	6.22	2.00	.....	1.20	0.70	.....
Springview	0.27	0.91	2.22	2.47	2.56	3.43	1.81	.....	.....	0.28	0.49	0.72	.....
Stanton	0.10	1.60	1.60	4.10	4.85	1.32	6.46	1.70	0.97	0.20	0.58	1.35	24.83
State Farm	0.20	0.64	1.57	0.41	2.95	4.38	2.97	6.39	2.05	T.	0.45	0.04	22.05
Superior	0.00	0.00	0.02	T.	2.35	3.53	2.31	2.37	2.03	0.13	0.74	0.51	13.99
Sutton	.....	.....	.....	.....	.....	.....	.....	6.40	3.33	0.19	0.97	0.40	.....
Syracuse	0.19	1.39	0.96	0.75	2.08	4.25	3.36	5.40	2.13	0.44	0.50	0.40	21.85
Table Rock	0.15	1.68	1.62	0.91	3.37	3.76	3.59	7.91	2.82	0.17	0.41	0.79	27.18
Tecumseh	.....	1.65	0.90	0.56	.....	4.57	3.79	4.68	3.63	0.78	0.90	.....	.....
Tekamah	0.61	2.25	1.72	1.73	2.40	3.95	4.50	3.55	1.21	.....	.....	.....	.....
Thedford	0.00	1.05	.....	.....	4.00	.....	1.50	.....	.....	.....	.....	.....	.....
Turlington	.....	1.40	1.10	0.87	2.90	5.12	3.59	[1]6.17	.....	.....	.....	.....	.....
*Valentine	.....	.....	2.41	2.76	2.07	4.39	1.19	1.20	0.08	0.23	0.54	0.83	.....
Wallace	.....	0.85	1.50	0.20	0.56	3.73	T.	0.72	T.	0.00	0.15	0.05	.....
Wayne	.....	.....	.....	.....	4.15	0.34	.....	.....	.....	.....	.....	.....	.....
Weeping Water	0.10	1.21	0.97	1.00	2.55	4.54	4.29	5.22	1.75	0.12	0.30	0.55	22.60
West Point	0.20	1.60	1.25	2.00	1.20	0.40	3.60	4.80	.....	0.10	0.40	1.40	.....
Whitman	0.00	T	2.00	0.62	1.99	2.53	1.57	0.61	T.	0.28	0.05	0.80	10.45
Wilcox	0.05	0.78	0.53	0.63	2.66	4.48	5.73	3.73	1.90	0.54	0.32	0.75	22.10
York	0.02	.....	.....	0.87	3.68	3.38	2.64	3.70	.....	0.10	0.30	0.68	.....
Nevada.													
Austin	1.22	1.39	1.72	2.86	0.88	0.00	1.02	0.60	0.32	0.07	0.55	0.59	10.13
Battle Mountain	1.42	0.10	0.73	1.18	0.12	0.10	0.30	0.00	0.25	0.05	0.25	0.10	4.30
Belleville	0.40	1.00	.....	0.80	T.	0.00	0.95	0.03	0.07	T.	0.20	0.24	.....
Belmont	0.62	1.63	1.89	0.66	0.04	0.00	0.71	0.58	0.66	0.04	0.12	1.05	8.00
Beowawe	0.90	0.40	0.80	1.32	0.47	0.00	0.00	0.20	0.10	0.00	1.27	0.30	5.76
Browns	0.48	0.88	0.25	1.00	0.00	0.00	.....	.....	.....	.....	.....	.....	.....
Candelaria	0.65	0.75	1.19	T.	T.	0.00	0.21	0.34	0.32	0.15	T.	0.23	3.84
Carlin	1.70	0.60	3.25	1.05	0.20	0.00	0.00	0.00	0.53	0.00	0.55	1.00	8.87
*Carson City	4.24	2.33	1.42	0.89	0.27	0.00	T.	0.10	0.91	0.08	1.67	0.19	12.10
Carson City	3.18	2.42	1.47	1.01	0.37	0.00	T.	0.11	0.98	0.15	1.49	0.24	11.42
Cranes Ranch	1.27	0.81	2.20	2.24	1.22	0.21	0.49	0.14	0.52	0.08	1.11	1.27	11.51
Downeyville	0.30	0.59	0.97	0.64	0.07	0.00	0.57	0.62	0.69	0.00	0.27	0.15	4.87
Edgewood	.....	.....	.....	.....	.....	0.00	T.	0.21	0.40	0.01	0.55	0.50	.....
Elko	2.20	2.20	1.72	0.20	1.20	0.00	0.00	0.00	0.30	0.00	1.25	0.90	10.07
Elko (near)	1.50	0.43	0.99	0.80	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.70	5.02
Ely	1.30	0.60	2.60	1.50	0.58	0.00	0.30	0.85	T.	0.00	0.35	1.06	9.14
Empire Ranch	0.12	0.54	1.48	1.30	0.61	0.00	0.40	.....	.....	.....	0.11	0.99	.....
Eureka	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.60	.....
Fenelon	1.50	0.40	0.80	0.75	0.10	0.00	0.00	0.00	0.60	0.00	1.85	0.35	6.35
Genoa	3.95	1.60	2.13	1.40	.....	.....	0.00	0.67	0.54	0.20	3.44	0.45	.....
Golconda	0.35	0.95	0.50	0.87	0.00	0.05	T.	0.00	0.66	0.00	0.30	0.35	3.53
Gold Hill	.....	.....	.....	.....	.....	.....	.....	.....	[c]0.41	0.01	0.48	0.85	.....
Haileck	1.90	1.40	2.37	2.95	0.75	0.00	0.00	0.00	0.48	0.45	1.15	1.01	12.46
Hawthorne[2]	0.94	0.70	0.16	0.17	T.	0.00	0.04	0.00	0.33	0.01	0.26	T.	2.61
Hawthorne[3]	0.66	0.58	0.16	0.17	0.00	0.00	0.04	0.07	0.33	0.01	0.26	T.	2.28
Hot Springs	0.30	0.00	0.10	0.57	0.75	0.04	0.80	0.00	0.00	0.00	0.29	T.	2.85
Humboldt	1.35	0.05	.....	0.90	0.00	0.00	0.00	T.	0.39	0.00	0.00	0.20	.....
Lewers Ranch	4.75	3.67	3.05	1.68	1.22	T.	0.01	T.	2.22	0.34	3.81	1.91	25.71
Lovelock	0.00	.....	.....	0.00	0.00	0.00	.....	0.00	1.00	0.00	0.30	0.00	.....
McDermitt	1.79	0.76	0.29	0.91	0.70	0.00	0.02	0.00	1.52	0.00	.....	.....	.....
Monitors Ranch	0.85	0.53	2.46	1.29	0.58	0.00	1.21	0.92	0.11	0.30	0.33	0.55	9.18
Osceola	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.10	1.00	.....
Palisade	1.80	0.95	2.60	1.35	0.00	1.50	0.30	0.00	0.45	0.64	0.60	0.95	11.14
Palmetto	3.70	2.40	6.23	0.60	0.08	0.00	1.83	1.27	0.02	0.05	0.70	1.65	18.53
Pioche	[c]0.63	1.19	4.19	0.10	0.02	0.00	0.14	0.18	T.	T.	.....	.....	.....
Reno	1.90	1.55	0.25	0.50	0.00	0.00	0.00	0.10	0.25	0.00	0.00	0.05	5.20
Reno (State University)	1.51	1.10	0.58	0.38	0.18	0.00	T.	0.04	0.24	0.02	0.42	0.32	4.74
St. Clair	0.65	0.90	1.88	0.52	0.21	0.00	0.27	0.00	0.10	0.00	0.04	0.08	4.65
South Camp	4.09	3.06	1.80	1.48	0.40	0.00	T.	T.	0.02	T.	0.70	0.19	11.74
Stofiel	2.11	5.73	4.69	3.20	1.27	0.12	0.23	0.22	2.21	0.25	2.31	2.33	24.67
Sunnyside	0.78	.....	4.82	0.68	0.20	0.00	0.32	0.23	T.	0.30	0.35	1.80	.....
Tecoma	1.45	0.50	0.92	0.35	0.00	.....	0.15	T.	0.30	T.	0.55	0.50	.....
Toano	1.27	0.20	0.52	0.85	0.40	0.00	0.05	0.00	0.09	0.00	1.20	0.10	.....
Tuscarora	.....	3.05	1.15	1.30	0.89	1.40	0.50	0.70	0.47	0.25	2.67	.....	.....
Tybo	1.73	1.31	4.15	0.89	T.	0.00	1.50	0.89	T.	T.	T.	1.36	11.83
Verdi	6.71	2.90	2.27	1.10	1.36	0.00	T.	0.14	1.21	1.60	2.40	1.47	21.16

[1] Prof. C. W. Friend. [2] Pacific Railway system. [3] C. P. Mengel.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nevada—Continued.													
Virginia City	2.53	4.74	1.08	1.45	0.82	T.	T.	0.02	1.68	0.10	1.26	1.11	14.79
Wabuska	0.15	0.60	T.	0.24	0.20	0.00	T.	T.	0.55	0.00	0.12	0.12	1.79
Wadsworth	0.88	0.00	0.00	0.20	T.	0.00	T.	0.00	1.00	0.00	0.00	0.30	2.38
Wells	1.50	1.72	1.20	0.85	1.26	.....	0.08	0.00	0.85	1.15	1.07	0.45	.....
*Winnemucca	1.84	0.82	1.35	1.15	0.44	0.06	0.11	0.18	0.55	0.16	0.72	0.47	7.65
Winnemucca[1]	2.11	0.95	1.24	0.99	0.42	0.06	0.11	0.18	0.55	0.16	0.81	0.67	8.25
New Hampshire.													
Alstead	.....	.....	.....	.....	.....	.....	.....	4.75	1.62	2.70	1.61	3.31	.....
Antrim	3.05	8.00	2.49	2.38	5.61	2.66	2.29	4.82	2.00	3.60	1.65	.....	.....
Belmont	2.92	5.65	2.87	2.37	4.21	1.47	2.37	3.44	2.54	5.59	1.85	3.92	.....
Berlin Mills	2.05	4.13	2.06	2.51	3.54	3.47	2.53	5.85	2.67	3.80	2.11	4.10	38.82
Bethlehem	1.50	2.45	2.02	1.92	2.30	6.09	5.10	5.19	2.09	4.08	1.13	3.43	36.50
Brookline	2.72	5.71	3.05	2.98	6.98	2.72	1.79	8.09	2.31	4.70	2.41	3.55	47.01
Concord	2.59	5.48	2.58	2.47	4.15	2.18	3.13	4.11	1.38	4.77	2.53	4.03	39.40
Dublin	2.65	4.04	1.05	2.74	6.48	3.99	2.62	8.26	2.85	5.50	1.90	3.15	45.23
Durham	1.98	3.94	2.22	2.15	5.62	1.95	2.33	3.48	1.95	5.16	2.09	2.85	35.72
East Canterbury	2.10	4.07	2.77	2.29	3.57	2.20	1.90	4.47	2.16	6.41	1.87	3.91	37.72
Grafton	2.21	6.65	2.61	1.80	4.13	2.73	2.53	7.21	2.11	4.57	1.63	3.06	41.24
Hanover	1.32	6.43	2.12	1.64	3.09	4.72	2.97	4.85	2.38	3.00	0.94	3.59	37.05
Keene	2.08	7.02	1.97	2.20	3.63	3.21	2.06	8.96	2.45	3.54	1.40	3.62	42.14
Lakeport	2.94	7.06	2.97	2.57	4.43	2.66	2.75	4.32	2.63	4.96	1.58	4.15	43.02
Lancaster	0.81	2.38	2.20	2.59	2.12	2.50	1.93	3.48	2.47	3.30	0.95	3.70	28.52
Littleton	1.25	3.24	2.82	2.04	2.50	5.04	3.30	4.56	2.58	3.13	0.55	3.84	34.83
*Manchester	2.30	5.18	2.46	1.79	4.46	1.61	1.61	5.99	2.25	3.22	.....	.....	.....
Manchester[2]	2.59	5.96	2.84	1.94	5.05	1.98	1.74	4.62	2.56	3.31	1.88	.....	.....
Mine Falls	2.18	6.05	.....	2.73	6.49	.....	.....	5.16	.....	3.43	2.13	.....	.....
Nashua	2.29	7.23	2.79	2.68	6.27	2.71	1.84	4.86	1.82	3.35	1.92	4.81	42.57
Newton	1.71	4.63	2.07	2.70	6.50	2.42	2.98	4.75	1.58	4.63	1.81	4.87	40.65
North Conway	3.12	7.51	2.84	2.55	5.96	1.71	.....	6.04	2.95	4.50	1.60	3.77	.....
Pennichuck Station	.....	.....	.....	2.46	6.60	.....	.....	4.44	.....	3.51	2.02	.....	.....
Peterboro	2.52	6.43	2.37	2.49	.....	2.20	1.71	6.16	1.86	3.95	1.77	5.73	.....
Plymouth	2.48	5.73	2.78	2.42	4.61	1.92	2.27	6.01	1.92	5.46	2.57	4.02	42.19
Sanbornton	2.41	3.42	2.23	1.78	4.41	2.41	2.18	3.81	2.28	5.07	1.56	3.03	34.59
Stratford	0.87	3.21	2.45	1.82	2.67	2.86	2.89	2.31	2.18	2.37	1.11	3.04	27.78
Walpole	2.51	6.87	2.45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wiers Bridge	2.89	6.07	2.90	2.23	4.13	2.41	1.61	4.01	2.36	5.20	1.63	3.98	39.42
West Milan	1.86	4.78	2.89	2.70	3.30	3.12	2.36	4.46	2.93	3.26	1.80	3.05	36.51
Wolfeboro	1.04	3.19	1.79	1.73	4.17	1.93	2.24	3.10	1.68	5.19	1.63	3.95	31.64
New Jersey.													
Asbury Park	3.22	5.09	4.16	6.63	3.72	5.28	2.22	8.67	1.93	3.36	2.47	2.67	49.42
*Atlantic City	2.67	3.43	4.21	4.92	3.52	1.57	3.28	3.55	3.61	1.74	2.19	2.44	37.13
Barnegat	3.07	3.14	4.78	6.29	4.20	5.15	3.04	4.14	2.53	2.21	2.71	3.35	44.61
Bayonne	3.10	6.81	4.23	5.20	4.77	2.35	2.22	6.44	2.53	3.90	3.80	3.35	48.70
Belvidere	1.87	7.54	3.58	3.88	.....	.....	.....	11.94	3.57	2.24	3.71	3.01	.....
Beverly	2.97	6.23	2.60	5.58	3.36	2.35	2.93	5.49	4.34	4.20	3.71	3.19	46.95
Billingsport	2.82	4.33	3.08	5.42	3.05	2.46	2.08	2.54	2.45	3.80	3.07	3.62	38.72
Blairstown	2.90	.....	.....	.....	.....	.....	.....	.....	.....	2.84	2.90	1.67	.....
Boonton	4.56	6.38	3.52	5.31	5.91	4.43	2.47	6.41	2.80	4.78	4.32	3.80	54.69
Bridgeton	3.50	4.48	3.81	4.11	3.55	0.46	2.90	4.38	3.59	5.35	3.36	3.73	43.20
Butler	.....	4.38	.....	6.38	3.01	.....	.....	.....	.....	.....	.....	.....	.....
Camden	2.58	5.21	2.73	5.73	3.74	3.38	5.68	4.24	4.32	4.01	3.32	3.47	46.41
Cape May Court House	3.57	3.99	4.28	5.75	2.76	2.52	1.26	4.89	5.14	2.04	2.74	3.15	42.09
Charlottesburg	.....	.....	.....	3.74	5.76	3.22	2.44	7.02	2.44	5.37	4.12	4.18	.....
Chester	.....	.....	.....	.....	.....	4.92	1.91	7.85	3.05	5.18	4.49	4.02	.....
Deckertown	[3.00]	6.06	3.72	3.71	6.34	2.54	3.03	8.60	2.91	3.76	3.55	[3.50]	[50.72]
Dover	4.00	6.93	3.10	3.93	4.42	7.02	2.98	6.22	2.62	4.85	3.96	3.59	52.74
Egg Harbor City	3.34	4.91	3.09	5.46	3.15	3.63	2.77	6.94	3.32	3.30	3.27	2.89	46.07
Elizabeth	3.00	6.74	4.22	6.20	5.07	2.40	2.70	6.49	2.79	4.85	3.79	3.82	52.07
Franklin Furnace	.....	.....	.....	.....	.....	2.20	3.08	7.89	3.10	3.22	3.40	3.37	.....
Franklinville	3.60	4.89	4.11	4.99	3.27	1.12	3.22	6.54	3.01	5.58	3.53	3.42	47.28
Freehold	2.50	7.16	3.68	5.15	5.16	3.84	2.47	4.67	3.27	4.89	3.66	3.23	49.68
Friesburg	2.68	4.85	3.34	3.79	2.85	1.23	3.65	4.94	4.62	4.50	3.54	3.11	42.90
Gillette	3.33	5.39	3.29	5.15	5.19	3.33	1.84	8.07	2.81	4.41	3.60	3.72	50.13
Hammonton	3.12	5.55	.....	5.48	2.55	0.59	3.25	.....	.....	.....	.....	.....	.....
Hanover	3.79	4.54	2.45	3.97	3.85	2.56	2.17	6.79	3.20	3.89	3.23	3.46	43.90
Highland Park	2.53	5.73	3.22	4.89	3.60	3.05	2.02	9.91	3.16	4.15	3.93	3.12	49.31
Hightstown	3.38	5.83	4.36	5.11	3.53	3.23	2.09	5.81	3.52	6.17	4.53	3.94	51.50
Imlaystown	2.56	5.45	6.03	5.91	3.11	2.96	3.68	4.30	3.54	4.67	3.83	4.04	50.08
Junction	3.82	6.79	3.70	2.97	4.92	3.16	3.76	[8.00]	4.28	3.29	3.63	3.54	[51.86]
Lambertville	3.40	5.34	3.47	4.81	2.80	3.41	1.96	6.60	2.78	2.77	3.88	3.07	44.29
Locktown	3.50	5.48	2.36	5.44	4.22	4.43	2.52	7.84	3.06	4.01	[3.80]	[3.00]	[49.66]
Millville	[3.00]	[4.30]	3.47	3.40	2.84	0.75	3.33	4.98	3.33	3.44	3.27	3.08	[39.19]
Moorestown	2.88	6.30	2.68	5.93	3.26	3.99	4.35	4.79	3.72	6.16	3.60	3.52	51.18
Newark[3]	3.45	6.20	3.73	5.75	5.32	3.55	1.76	6.56	2.30	5.99	3.65	3.80	52.06
Newark[4]	3.60	4.98	3.35	5.36	4.54	2.89	2.53	7.54	2.26	5.33	3.30	3.27	48.95
New Brunswick[5]	2.61	5.73	3.22	5.61	3.95	3.28	2.31	10.70	3.31	3.61	3.91	3.13	51.37
New Brunswick[6]	2.54	6.01	3.04	5.62	4.04	3.27	2.39	11.17	3.20	4.32	3.99	3.29	52.88
*New Brunswick	2.53	5.73	3.22	4.89	3.60	3.05	2.02	9.91	3.16	4.15	3.93	3.12	49.31
Newton	2.25	7.77	3.56	3.40	4.26	1.77	2.96	5.86	2.80	2.82	2.89	2.86	43.20
Ocean City	2.39	4.39	4.28	7.08	4.16	2.09	2.88	6.71	4.13	2.46	2.37	2.93	45.87
Oceanic	3.27	5.99	3.91	6.08	5.30	2.89	4.63	6.47	3.10	4.20	3.65	3.38	52.87
Paterson	3.66	7.51	3.86	5.44	5.16	2.24	1.71	7.43	2.96	5.86	3.85	4.51	54.19
Pensauken	2.08	4.43	2.42	5.58	3.13	3.26	3.78	3.98	3.57	4.28	3.02	3.55	43.08
Perth Amboy	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.26	4.32	[1]1.77	.....

[1] Pacific Railway system.
[2] W. Little.
[3] F. W. Ricord.
[4] G. C. Sonn.
[5] C. V. Myers.
[6] Mrs. G. H. Cook.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New Jersey—Continued.													
Plainfield	2.88	6.37	3.53	5.91	4.49	2.58	4.05	7.32	2.80	5.02	3.75	3.21	51.91
Rancocas	2.94	6.07	2.95	5.05	2.85	3.17	3.71	3.70	3.72	5.06	3.32	3.17	45.71
River Vale	3.23	5.88	4.76	4.37	4.60	3.39	2.57	4.87	2.66	4.43	3.47	3.86	48.09
Salem	2.40	3.19	3.08	4.80	3.06	2.36	2.59	7.44	2.13	3.04	3.16	3.35	40.62
Somerville	3.75	6.17	3.30	5.38	3.96	4.26	3.34	8.32	3.19	4.68	3.22	3.24	52.81
South Orange	4.07	8.90	3.42	6.81	3.37	3.61	1.78	7.16	2.72	5.30	4.05	3.47	54.66
Tenafly	4.13	5.82	4.79	4.35	5.40	3.72	2.52	8.04	2.86	6.59	3.63	4.66	56.51
Toms River	2.50	4.63	6.26	7.12	4.87	3.26	2.17	6.40	3.94	4.48	3.05	3.89	52.57
Trenton	2.01	5.52	2.90	6.53	3.54	3.21	2.58	5.60	3.17	4.40	3.37	3.50	46.33
Vineland	[3.00]	4.34	2.84	3.97	2.79	0.71	2.89	4.89	2.75	3.72	3.75	3.65	[39.40]
Whiting	2.02	5.38	3.30	5.12	3.90	2.14	2.90	3.59	2.63	3.98	2.85	3.33	41.14
Woodbine	2.95	3.98	3.84	6.16	2.81	2.14	3.09	5.18	5.38	3.14	2.40	2.19	43.26
New Mexico.													
Albert	0.00	0.29	0.15	0.07	1.23	0.37	1.84	4.79	3.71	0.16	0.00	0.01	12.53
Albuquerque	0.31	0.07	0.22	T.	0.45	T.	1.27	1.88	2.95	0.09	0.17	0.01	7.42
Bloomfield	0.00	1.25											
Chama	1.73	4.32	5.15	0.30	1.27	0.14	1.48	3.62	3.99	0.25	0.85	1.60	24.70
Coolidge							1.23	1.50	0.95	0.00	0.35	0.10	
Deming	0.19	0.59	0.42	0.00	1.45	0.01	2.82	4.38	2.64	0.00	0.06	0.10	12.66
East Las Vegas	0.18	1.16	0.07	0.00	1.50	0.25	5.65	6.97	3.87	0.04	0.00	0.31	20.00
Embudo	0.09	0.37	0.72	0.00	0.87	T.	1.14	2.37	2.24	0.00			
Estalina Springs	0.48	0.68	0.12	0.00	1.02	0.07	2.28	3.12	2.99		0.23	0.06	
Folsom	0.00	0.40	0.00	0.50	2.41	0.73	[1.46						
Fort Bayard	0.85	0.14	0.35	0.00	1.50	T.	3.76	4.90	3.88		0.09	T.	
*Fort Stanton	0.75	1.60	0.11	0.00	0.72	0.45	3.57	4.74	3.47	0.04			
Fort Stanton[1]												0.15	
Fort Wingate	0.48	0.63	1.11	0.00	1.25	T.	3.60	0.60	1.50	0.00	0.30	0.15	9.62
Gallinas Spring	0.20	0.81	T.	0.00	1.20	1.43	1.90	2.58	4.42	0.00	0.00	0.50	13.04
Halls Peak	0.92	0.88	0.05	T.	3.92	0.46	1.92	4.79	1.83	T.	0.20	0.38	15.35
Hillsboro	0.32	1.72	0.20	0.00	1.83								
La Luz	0.20	0.30	0.11	0.00	0.87	0.04	0.92	3.90	4.00	0.04	0.02	0.26	10.66
Las Cruces	0.07	1.26	0.02	0.00	0.77	0.00	2.04	4.19	2.39	0.03	0.03	0.02	10.82
Las Vegas	0.18	1.16	0.07	0.00	1.50	0.25	5.64	6.97	3.87	0.04	0.00	0.31	19.99
Lordsburg	T.	0.90	1.00	0.00	1.96	T.	0.90	2.36	2.15	0.00	0.00	0.05	9.32
Los Lunas	0.15	T.	T.	0.00	1.40	T.	0.10	2.50	4.25	T.	T.	0.00	8.40
Manero	1.10	2.89	1.25	0.17	1.05	0.02	3.19	3.86	4.19	0.22	0.55	0.45	18.94
Olio	0.05	0.85	0.43	0.00	0.76	0.00	1.15	0.42	1.36	0.00	T.	T.	5.02
Pojuaque									2.64	0.11			
Roswell		0.74		0.00									
*Santa Fe	0.26	0.76	0.78	0.01	0.98	0.02	3.01	5.12	3.00	0.22	0.29	0.49	14.94
Socorro	0.57	0.22	0.00	0.00	0.88	0.03	1.78	1.11	3.47	T.	T.	T.	8.06
Springer	T.	0.10	9.30	0.25	2.38	0.14	1.61	5.27	1.44				
Sulphur Hot Springs							4.29		3.29	0.30	0.54		
Taos	0.97	1.32	1.10	T.	1.62	T.	0.70	2.29	2.09	0.00	T.	0.17	10.26
Watrous									3.57		0.00		
New York.													
Adams Center	1.85	3.37	1.47	2.41									
Addison	1.64	2.27	2.62	3.50	7.87	3.04	2.37	3.69	2.34	2.89	1.22	1.88	35.33
Akron	2.03	4.38	2.27	3.77	7.20	2.77	4.17	4.70					
*Albany	1.31	4.63	2.00	2.10	5.08	2.92	1.82	7.21	3.20	1.67	0.91	2.54	35.39
Albion	1.97	4.25	1.30										
Alfred Center	4.45	4.15	3.34	2.23	5.89	1.93	3.02	4.95	4.90	3.30	2.98	3.13	44.27
Anipersand	0.63	2.75	0.70	2.95	3.46	2.12	5.70						
Angelica	2.44	4.37	2.37	4.37	5.65	2.35	1.79	5.22	2.67	2.49	2.12	3.53	39.87
Arcade	1.69	4.60	2.04	4.47	7.28	3.63	2.88	6.55	3.19	3.77	1.95	3.82	46.47
Atlanta	0.93	0.86	1.74	3.68	7.33	3.04	2.32	7.47	3.53	2.80	1.27	2.16	37.13
Avon	0.55	2.86	2.62	2.18	4.00	1.02							
Axton	1.32	2.02											
Baldwinsville	2.22	5.78	2.56	4.38	5.12	2.87	7.05	5.15	2.63	1.95	2.11	4.40	46.22
Bedford	4.02	7.27	4.25	4.12	7.53	1.99	3.38	7.72	2.59	6.07	3.78		
Bethlehem Center	1.68												
Binghamton	2.42	4.16	2.80	3.36	5.16	2.58	4.10	4.88	4.50	1.68	1.38	2.91	39.93
Bolivar				4.49				4.12	3.65	2.58	1.83	4.08	
Boonville						2.63	1.83	7.66	3.17	2.18	3.14	6.07	
Bovina Center								10.56	4.66	4.04	3.56	6.35	
Boyds Corners	4.03	8.05											
Brentwood	3.50	[2.70]	4.75	3.40	5.85	0.80	1.90	7.19	2.55			4.50	
Brockport	2.01	3.52	2.16	3.62	4.99	[1.07				1.85	1.00		
Brookfield	1.92	3.29	2.08	1.71	5.87	0.77	4.33	6.65	2.02	0.75	1.11	5.29	36.39
*Buffalo	2.33	4.21	2.62	4.49	4.76	1.65	1.44	4.91	2.71	2.53	2.63	4.36	38.64
Canton	1.68	1.94	0.92	2.29	7.21	3.05							
Carmel	3.51	7.59											
Carthage			1.87	2.67									
Castile					6.68	1.46	1.97	7.34					
Chenango Forks	1.70	3.80	2.15	2.37		3.21	2.15						
Cherry Creek	8.52	9.22	3.29	5.08	5.20	3.63	2.40	5.75	2.98	5.75	4.91	6.29	69.02
Constableville	1.40	4.19	1.87	2.62	4.87	2.93	2.04	6.00					
Cooperstown	1.89	4.99	2.13	2.96	6.74	2.29	4.85	7.59	4.03	1.27	2.20	4.02	44.87
Cortland	1.54	2.90	2.22	3.12	6.29	1.45	4.57	4.37	4.17	3.73	1.94	2.35	38.65
DeKalb Junction	1.36	2.21	1.29		6.38	2.37	5.44	9.14	3.13	1.38	2.55	5.01	
Demster	2.25	2.49	1.22	3.63	5.89	3.77	1.64	4.80	3.31	2.54	3.06	3.05	37.85
Deposit	3.25	3.70	2.07									2.60	
Dunkirk	1.36	3.99	1.84	3.70	4.33	3.40	1.94	5.60	1.79	2.80	2.86		
Easton	1.10	4.56	1.91	3.11	3.89	3.68	5.45	12.48	5.08	2.45	1.16		
Eden Center	3.80	9.49	6.16	6.92	8.13	4.86	4.38	5.96	5.46	3.45	5.59	6.85	71.05
Ellis	1.34	1.75	1.77	2.55	6.30	3.48	5.07		4.17	2.15	1.39	1.47	

[1] U. S. Army post surgeon.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New York—Continued.													
Elmira	0.62	1.61	2.05	3.55	6.84	3.62	3.89	5.54	3.72	2.66	.....	.....	.....
Factoryville	2.25	2.73	2.89	3.39	7.54	1.97	3.55	5.29	5.57	2.34	1.61	3.18	42.31
Fleming	0.66	1.30	1.25	2.62	5.61	1.32	3.67	2.01	2.36	0.98	1.45	1.36	24.59
Fort Niagara	1.89	2.24	2.21	3.70	5.18	2.02	2.78	4.85	2.04	2.62	2.43	3.05	35.01
Friendship	1.16	4.96	2.33	4.34	5.70	2.04	2.01	5.33	3.65	3.07	2.12	3.51	40.22
Galway	1.65	6.22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Geneva	1.54	2.98	1.56	3.94	5.11	3.13	3.23	4.53	[b]2.54	1.83	.....	.....	.....
Glens Falls	2.17	5.50	1.90	.....	.....	.....	.....	.....	3.87	.....	.....	.....	.....
Gloversville	1.64	6.81	1.84	3.57	6.06	1.95	2.60	5.80	3.94	1.62	1.34	4.11	41.37
Hess Road Station	.....	.....	.....	.....	.....	.....	2.74	4.48	2.45	2.89	2.86	4.12	.....
Honeymead Brook	2.69	7.43	3.08	2.93	7.21	1.88	4.12	5.31	4.53	3.73	1.94	3.83	48.68
Humphrey	2.82	5.52	2.63	5.61	5.42	4.54	3.66	5.82	3.83	4.27	2.56	5.74	52.42
Ithaca	1.32	2.93	2.49	3.79	6.04	2.21	5.13	3.86	4.38	2.15	1.25	2.03	37.58
Kings Station	2.90	6.85	2.65	3.18	6.06	1.52	5.11	11.25	3.65	1.97	1.25	4.52	50.91
Lebanon Springs	2.14	6.12	[a]1.77	4.68	5.52	2.67	3.84	5.93	4.52	2.79	2.00	4.09	46.07
Le Roy	3.95	6.86	3.90	3.82	6.13	0.50	3.67	4.89	4.33	2.34	1.75	6.43	48.57
Liberty	.....	.....	.....	.....	5.43	.....	.....	4.39	.....	.....	.....	.....	.....
Little Valley	.....	.....	.....	4.28	.....	.....	.....	4.48	3.29	.....	.....	.....	.....
Lockport	2.06	3.86	2.62	4.01	7.18	2.54	4.78	5.21	3.43	2.68	3.34	4.77	46.48
Lowville	2.29	4.08	1.86	3.89	6.78	1.90	2.79	8.65	2.82	1.69	3.75	5.81	46.31
Lyndonville	0.92	2.23	1.87	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lyons	2.23	3.18	1.22	1.67	4.88	3.35	4.24	7.89	2.03	1.91	1.05	2.60	36.25
Madison Barracks	2.79	2.35	1.22	3.98	5.59	1.66	2.26	9.00	2.28	1.74	2.74	3.52	39.13
Malone	1.66	2.52	0.85	3.44	4.05	3.29	5.17	9.98	2.71	1.30	1.45	6.21	42.63
Middletown	3.28	6.60	3.86	3.57	.....	.....	2.23	5.68	2.54	3.10	2.59	3.03	.....
Minnewaska	3.45	8.15	3.80	4.20	8.03	3.05	1.60	4.66	3.53	4.90	2.05	2.80	50.22
Mount Morris	.....	.....	.....	3.08	5.62	0.87	1.97	5.20	2.95	1.88	1.10	2.09	.....
Newark Valley	1.40	2.86	2.70	3.49	6.66	1.76	4.00	5.17	5.96	2.68	0.75	2.80	40.23
New Lisbon	1.65	4.86	2.12	3.30	4.90	1.97	5.13	8.38	4.05	1.25	0.95	2.28	40.94
*New York City	3.56	7.81	4.47	6.36	5.06	2.56	1.26	7.18	2.27	5.28	3.71	3.49	53.01
North Hammond	2.28	1.83	0.98	3.52	6.03	1.96	.....	6.75	.....	.....	2.26	3.53	.....
Number Four	2.46	2.44	2.27	3.98	6.30	5.03	4.27	6.63	5.46	2.55	3.60	5.92	50.91
Ogdensburg	2.93	.....	.....	1.95	5.82	2.20	1.20	5.69	1.88	0.63	1.88	4.30	.....
*Oswego	2.06	2.11	1.23	3.17	4.53	2.20	1.16	6.47	2.81	2.26	2.94	3.84	34.78
Oxford	2.57	4.47	2.58	4.89	6.23	3.70	6.01	7.37	3.94	1.46	1.72	3.28	48.22
Palermo	3.07	3.99	1.32	3.66	4.72	2.26	1.49	5.51	2.80	2.24	2.32	3.22	36.60
Perry City	1.75	2.80	2.43	3.58	5.37	2.13	4.99	5.21	4.12	2.74	0.91	1.87	37.90
Phœnix	2.49	3.75	1.80	3.79	5.28	3.85	7.09	4.83	2.32	1.62	1.83	3.30	41.93
Pine City	.....	.....	.....	.....	.....	3.47	3.71	4.20	.....	2.95	1.59	2.26	.....
Plattsburg Barracks	0.89	1.54	0.68	2.11	3.26	2.42	3.34	5.76	2.12	0.85	1.28	3.92	.....
Port Henry	.....	.....	.....	.....	3.50	.....	.....	.....	.....	.....	.....	.....	.....
Port Jervis	3.57	5.54	3.80	3.61	8.44	3.79	3.33	5.63	1.93	3.67	3.47	3.92	50.70
Potsdam	1.07	2.99	0.75	3.07	5.38	5.00	2.58	9.92	3.00	1.02	2.05	4.89	41.72
Poughkeepsie	2.35	6.78	3.12	2.98	7.06	1.49	1.66	4.11	3.43	2.75	1.83	3.49	41.05
Quaker Street	1.75	4.90	1.80	3.15	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rochester	1.50	3.31	1.81	3.97	5.69	0.94	2.87	5.61	2.20	1.83	1.93	3.84	35.50
Rome	2.00	7.04	.....	3.97	6.47	1.79	2.96	6.68	3.54	2.56	2.10	5.43	.....
Romulus	1.10	2.49	1.90	3.02	6.11	1.41	2.20	4.15	3.26	1.65	0.56	1.89	29.74
Rondout	5.63	8.71	4.60	4.20	7.78	2.91	2.12	5.50	4.22	3.32	2.20	3.20	54.39
Saranac Lake	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.27	.....
Schodack Depot	1.78	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Setauket	3.09	7.11	5.82	4.95	5.87	0.58	1.88	6.65	2.02	4.00	3.18	3.43	48.58
South Canisteo	2.96	3.58	3.51	5.84	5.25	4.78	2.70	4.13	2.76	4.05	2.03	2.91	44.50
South Kortright	1.27	4.22	2.82	3.35	5.81	5.76	3.50	7.26	3.76	2.05	1.10	1.99	42.89
Stillwater	.....	.....	.....	.....	.....	2.61	2.89	8.08	3.07	1.97	0.53	4.43	.....
Turin	3.78	6.33	3.40	4.13	6.39	4.25	2.58	7.09	3.36	1.97	3.80	6.03	54.01
Utica	1.92	7.79	3.16	3.48	7.84	2.35	5.32	6.57	.....	.....	.....	.....	.....
Varysburg	.....	.....	2.21	3.62	5.52	3.08	3.23	5.77	4.47	.....	2.52	3.91	.....
Victor	1.30	.....	2.00	3.27	6.19	4.09	4.04	.....	.....	.....	.....	.....	.....
Wappingers Falls	3.10	7.05	4.78	3.43	7.37	2.09	3.13	6.64	3.14	3.53	3.04	4.05	51.35
Warwick	.....	.....	.....	.....	.....	.....	.....	7.75	2.34	2.87	3.18	3.07	.....
Watertown	2.58	3.39	1.81	.....	.....	2.83	2.20	9.20	.....	.....	.....	.....	.....
Watkins	1.24	0.92	1.97	2.96	4.36	2.41	2.51	3.35	3.07	.....	0.77	.....	.....
Wedgwood	2.23	2.49	2.93	3.55	5.37	5.51	3.55	5.61	2.83	2.57	1.60	1.71	39.95
West Chazy	1.08	2.44	0.87	2.57	3.12	3.61	4.16	7.73	1.55	1.57	1.09	3.46	33.25
West Point	4.43	7.29	3.94	3.16	8.24	1.83	4.53	6.62	2.84	4.25	3.63	2.66	53.42
Willets Point	2.90	7.10	4.48	5.33	4.55	1.96	1.77	7.05	2.17	4.35	3.06	3.31	48.03
North Carolina.													
*Asheville	3.29	4.74	2.90	1.95	3.80	3.91	2.12	6.24	7.42	5.36	3.89	1.19	46.90
Auburn	2.71	4.98	1.54	.....	7.12	5.32	1.51	.....	4.04	3.92	.....	4.01	.....
Bailey	2.22	7.89	1.13	3.20	6.44	7.05	1.56	10.68	5.53	6.89	2.03	1.29	55.93
Bakersville	3.70	4.16	1.62	3.46	5.59	4.86	2.97	8.11	5.80	5.52	3.30	1.95	51.04
Blowing Rock	1.65	4.44	2.73	5.42	3.57	10.75	5.08	7.67	10.29	[b]5.64	[c]2.21	1.86	61.29
*Bryson City	3.16	6.99	3.16	3.84	6.86	3.74	1.74	3.41	4.32	1.00	2.37	2.74	43.33
Chapel Hill	3.04	5.41	1.48	1.49	4.04	4.21	2.09	9.13	6.40	6.75	1.54	3.48	49.06
*Charlotte	2.43	7.46	1.74	1.64	4.23	5.48	4.22	9.81	6.99	8.27	2.44	1.62	56.33
Columbus	5.54	6.98	2.05	5.69	5.46	11.37	5.49	14.39	11.90	11.31	4.11	2.50	86.79
Currituck Inlet	3.46	1.85	.....	.....	.....	.....	.....	.....	3.27	2.53	.....	2.99	.....
Douglas	4.53	8.90	3.60	3.80	8.50	7.62	2.10	11.20	10.10	7.10	.....	.....	.....
Experimental Farm	3.85	5.84	1.29	1.24	5.39	3.79	4.27	6.13	3.42	5.27	2.00	4.01	46.50
Falkland	.....	.....	.....	.....	.....	.....	.....	4.20	5.14	4.94	4.37	3.00	.....
*Fayetteville	3.15	4.60	2.08	1.63	7.67	5.77	3.39	7.36	5.10	4.73	2.39	3.44	51.31
Flat Rock	2.30	7.00	.....	.....	6.05	3.65	3.23	10.15	14.16	8.56	6.47	2.23	.....
*Goldsboro	.....	.....	.....	.....	5.04	6.23	5.84	5.86	3.21	4.46	2.27	.....	.....
*Greensboro	.....	.....	.....	.....	6.60	4.92	2.46	10.75	6.55	8.78	1.55	.....	.....
Greenville	.....	.....	.....	.....	.....	.....	.....	.....	5.07	5.77	.....	3.50	.....
*Hatteras	3.43	2.49	4.51	3.14	4.51	5.23	3.66	7.36	4.63	7.16	8.32	3.86	58.30
Henderson	.....	.....	.....	.....	.....	2.71	4.07	6.96	4.52	6.39	2.07	4.18	.....
Highlands	7.13	11.37	4.64	7.08	6.17	9.60	7.91	12.35	15.11	2.30	3.70	3.16	90.58

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
North Carolina—Continued.													
Horse Cove	5.17	9.18	3.46	5.24	4.42	9.13	3.94	8.31	15.56	1.56	3.17	3.47	72.61
*Kittyhawk	2.62	2.14	3.51	0.96	5.92	2.63	1.67	3.54	1.27	1.01	2.46	1.79	29.52
Lenoir	2.31	5.20	1.10	2.50	5.90	3.50	3.20	7.50	9.00	8.30	2.20	1.20	51.91
Lewiston	2.63	2.85	4.98	3.71	9.75	5.72	5.92	8.01	4.35	6.66	.....	5.46	.....
Lillington	2.36	5.60	1.75	2.03	6.85	6.53	3.34	6.42	5.57	5.38	1.81	3.32	50.96
*Littleton	3.30	5.99	0.98	0.88	3.87	4.05	5.05	3.44	2.73	6.00	3.68	3.62	43.59
Louisburg	4.77	5.32	1.18	1.28	5.58	2.87	5.00	4.87	6.32	4.21	1.52	3.80	46.72
*Lumberton	.....	.....	.....	.....	5.90	7.83	7.62	8.15	5.31	6.71	2.78	.....	.....
Lynn	1.34	7.96	1.77	4.42	4.24	5.23	2.17	9.45	9.09	7.77	4.89	1.71	60.04
Marion	4.25	7.37	1.35	3.00	.....	5.32	.....	6.91	9.74	8.75	5.22	1.74	.....
May	2.92	6.04	1.10	.....	.....	.....	.....	.....	.....	5.22	1.86	5.25	.....
Mocksville	.....	.....	.....	.....	.....	5.63	1.65	11.22	6.05	0.54	1.11	0.79	.....
Morganton	.....	.....	1.16	3.70	4.95	7.14	2.00	9.37	7.75	10.70	3.10	1.60	.....
Mount Airy	2.92	5.06	1.43	2.69	5.05	5.64	2.12	6.21	5.84	5.96	2.00	1.44	45.76
*Mount Holly	3.10	6.49	1.57	1.87	3.38	7.37	2.27	7.87	.....	.....	.....	.....	.....
Mount Pleasant	2.33	7.18	1.46	1.52	4.31	8.46	2.08	9.09	3.27	6.53	2.19	1.90	50.32
*Murphy	2.69	7.14	3.50	3.21	6.28	5.61	3.96	3.03	5.01	0.75	1.64	2.91	45.73
*Newbern	3.08	3.25	3.61	3.57	4.67	5.70	5.75	9.33	3.44	4.47	3.50	4.53	54.90
*Oak Ridge	1.86	7.35	1.07	2.29	7.35	6.42	1.44	8.26	6.75	7.26	1.66	1.60	53.31
Pittsboro	3.75	6.16	1.05	2.45	3.15	3.35	2.03	5.10	6.06	5.70	1.32	3.40	43.52
Raleigh	3.22	5.49	.....	.....	.....	3.30	3.35	.....	2.70	5.20	.....	4.35	.....
*Raleigh	3.70	6.17	1.59	1.40	5.80	4.15	3.79	7.80	3.20	5.57	1.97	4.38	49.52
Rockingham	1.58	5.61	1.70	2.00	4.80	4.04	7.51	10.16	2.63	3.83	2.44	4.61	50.91
Roxboro	2.27	7.12	0.97	1.65	6.69	3.21	3.79	8.52	4.75	7.28	1.47	3.55	51.27
Rutherford College	.....	.....	.....	.....	.....	.....	.....	.....	7.23	9.26	3.04	1.31	.....
Salisbury[1]	1.93	7.78	1.10	2.03	4.72	5.66	2.07	7.35	4.98	5.89	2.37	1.96	47.84
*Salisbury[2]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.77	.....
Saxon	2.25	7.10	1.55	3.06	7.72	7.68	1.95	10.87	6.80	6.83	1.76	1.30	58.87
Shelby	.....	6.34	0.80	3.24	4.23	9.16	5.32	6.35	5.57	8.75	3.60	1.55	.....
Sloan	.....	.....	3.09	1.51	8.27	5.33	0.99	11.79	2.40	4.81	2.87	4.64	.....
Smithfield	2.09	4.14	1.98	2.33	6.30	10.12	3.36	5.03	3.30	5.17	2.05	4.35	50.22
Soapstone Mount	2.33	6.03	1.43	2.20	4.43	5.38	3.46	6.89	6.11	6.89	2.02	2.74	50.41
Southern Pines	2.75	7.10	1.70	2.10	3.90	7.10	7.06	5.12	3.71	5.81	1.40	5.84	53.59
*Southport	3.12	4.95	4.85	1.39	5.72	5.76	6.79	5.92	4.79	4.94	2.90	3.79	54.02
Tarboro	2.99	3.10	2.94	1.63	2.86	9.37	4.38	5.15	4.20	[4.84	3.88	4.10	49.44
Warrenton	.....	5.34	0.75	1.32	4.71	2.16	6.50	3.27	4.99	.....	.....	.....	.....
Washington	.....	.....	.....	.....	.....	5.13	3.75	3.76	7.38	4.72	4.90	5.88	.....
*Weldon	2.39	4.54	2.23	0.96	3.21	5.50	4.34	3.39	5.80	5.40	3.64	5.41	46.87
Willeyton	2.26	2.68	3.90	1.18	4.32	6.88	4.95	4.73	6.10	3.28	4.74	2.87	46.99
*Wilmington	2.26	2.94	2.40	1.02	5.01	5.58	4.23	3.01	3.06	3.26	1.71	3.27	42.75
North Dakota.													
Ashley	0.90	T.	2.78	1.95	1.30	2.35	2.34	1.49	0.38	0.99	0.20	1.00	15.68
Berlin	0.59	1.00	1.30	2.88	0.66	1.49	1.46	0.69	0.32	0.72	0.21	0.74	12.06
*Bismarck	0.73	0.20	1.52	0.69	1.26	4.33	1.48	0.67	0.18	0.95	0.24	1.49	13.74
Bottineau	0.20	T.	.....	0.10	0.89	4.35	1.48	0.55	1.15	1.19	0.35	0.04	.....
Cannon Ball	.....	.....	.....	.....	.....	4.07	1.96	0.66	.....	.....	.....	.....	.....
Churchs Ferry	1.30	0.47	0.87	0.77	0.79	5.25	0.94	2.15	1.24	0.94	0.32	1.02	16.06
Dawson	.....	.....	.....	0.42	0.40	5.43	1.85	1.02	.....	.....	.....	.....	.....
Dickinson	0.86	T.	0.60	0.45	2.90	1.45	1.87	0.46	1.59	0.37	0.02	1.06	11.63
Dunseith	.....	.....	.....	.....	.....	3.69	0.92	0.55	2.01	.....	.....	.....	.....
Ellendale	1.72	0.44	1.25	2.03	0.77	3.62	2.20	1.35	0.38	0.86	0.10	0.45	15.77
Fargo	0.22	0.11	0.71	2.63	0.77	3.62	2.21	2.72	0.87	0.90	1.00	0.35	16.11
Forman	0.57	1.03	1.87	3.90	0.95	3.49	2.20	3.26	0.33	0.76	0.23	0.35	18.94
Fort Berthold	.....	.....	.....	.....	.....	.....	.....	.....	0.69	1.49	1.29	1.07	.....
*Fort Buford[3]	2.04	0.31	3.12	0.38	4.79	1.84	1.85	0.31	0.64	1.14	[0.11	1.92	15.45
Fort Stevenson	0.73	0.68	0.88	0.62	1.83	3.80	1.60	1.11	0.85	0.69	0.91	1.65	15.35
Fort Yates	2.54	0.18	1.11	1.62	1.56	4.91	1.79	0.79	T.	0.51	0.28	1.01	16.30
Gallatin	0.29	0.42	0.50	2.24	0.83	2.76	1.34	1.74	0.36	1.07	0.33	0.79	12.67
Grafton	1.75	1.15	0.95	1.73	1.46	3.54	2.38	.....	.....	.....	0.40	0.80	.....
Grand Forks	1.70	1.07	0.96	3.37	1.77	3.19	1.19	1.72	0.64	1.27	0.20	0.89	17.97
Jamestown	0.50	0.32	3.14	2.78	1.67	2.08	2.81	0.93	1.16	0.94	0.25	1.41	17.99
Kelso	0.85	0.45	0.90	2.30	0.97	4.03	2.59	1.68	0.56	1.45	0.80	1.20	17.78
Lakota	1.37	1.61	0.60	0.60	1.50	.....	.....	.....	.....	.....	.....	.....	.....
Larimore	.....	.....	.....	.....	.....	2.09	3.28	2.20	1.27	0.52	0.20	0.40	.....
Mayville	1.00	1.70	1.00	.....	1.16	3.96	1.41	.....	.....	.....	.....	.....	.....
McKinney	.....	.....	.....	.....	.....	.....	.....	.....	1.30	1.02	1.23	0.58	.....
Medora	2.15	T.	0.40	0.18	3.84	0.86	0.53	0.19	.....	.....	.....	.....	.....
Milton	1.00	1.10	0.40	2.10	1.39	3.64	3.10	1.00	1.06	1.70	0.60	0.20	17.29
Minto	.....	0.50	0.80	1.37	1.90	2.35	2.54	2.13	0.05	1.06	.....	0.43	.....
Napoleon	0.79	0.16	1.06	1.75	1.78	3.56	4.52	0.97	0.18	1.38	0.96	0.55	17.66
New Salem	.....	.....	.....	.....	.....	5.30	0.82	0.59	0.70	1.21	T.	T.	.....
Oakdale	.....	.....	.....	0.62	4.34	1.60	0.72	0.46	1.54	1.32	1.20	1.50	.....
Portal	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.80	.....
Power	0.42	0.25	0.57	1.22	0.02	3.60	3.29	1.68	0.55	1.64	0.53	0.50	.....
Reynolds	.....	.....	.....	3.18	.....	.....	.....	1.99	0.45	.....	.....	.....	.....
St. John	1.57	1.20	0.60	1.28	2.01	4.19	2.08	1.08	1.32	0.83	1.15	1.00	18.31
Sheyenne	.....	.....	.....	.....	.....	.....	0.86	.....	.....	.....	1.43	1.70	.....
Sykeston	0.40	T.	.....	0.55	1.40	5.54	1.64	.....	.....	.....	0.05	0.71	.....
Valley City	.....	.....	.....	.....	1.01	2.33	.....	.....	.....	.....	0.03	.....	.....
Wahpeton	0.70	1.21	0.98	3.98	1.12	2.45	2.62	3.27	1.44	0.59	0.12	0.24	19.02
Washburn	.....	.....	.....	.....	.....	.....	.....	0.52	0.39	1.28	0.05	0.61	.....
Wild Rice	0.87	1.21	1.64	3.73	0.83	3.06	4.59	2.37	0.86	1.18	0.62	1.33	22.29
Williamsport	.....	.....	.....	.....	.....	2.77	2.05	0.48	0.07	0.81	0.22	0.80	.....
Williston[4]	.....	.....	.....	.....	.....	.....	1.52	0.10	0.01	.....	.....	.....	.....
Willow City	.....	0.70	1.10	0.51	1.87	3.28	[1.00]	0.82	1.23	1.05	1.10	0.20	.....
Woodbridge	0.55	0.87	0.25	0.68	1.21	4.62	3.11	0.82	0.82	1.67	2.10	0.31	17.01
Yule	0.56	T.	0.34	0.61	3.71	2.18	0.93	.....	.....	.....	.....	.....	.....

[1]J. A. Hedrick. [2]Special rainfall observer. [3]Station removed to Williston, N. Dak., November 23, 1893. [4]G. Anderson.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Ohio.													
Akron	3.02	5.79	2.88	5.49	6.23	1.71	3.33	2.23	1.27	4.92	1.58	2.75	41.20
Annapolis	1.98	6.60	1.97	5.94	3.44	3.91	2.32	4.14	0.54	5.50	1.43	2.96	40.73
Arcanum	.....	.....	.....	.....	.....	4.19	2.04	0.26	2.42	2.47	1.90	2.05	.....
Ashland	4.11	6.10	1.91	6.30	7.33	2.23	2.92	1.54	.....	.....	2.22	2.52	.....
Athens	2.85	5.31	1.75	5.01	4.12	4.11	1.71	2.74	.....	6.49	1.72	2.48	.....
Auburn	2.46	3.98	3.18	4.82	7.06	3.67	2.36	3.91	1.01	3.40	1.82	3.76	41.43
Bangorville	3.59	5.89	2.30	7.66	4.85	3.11	2.00	1.01	2.11	4.37	2.47	2.77	42.13
Batavia	.....	.....	.....	.....	.....	.....	2.50	1.11	1.60	2.98	2.39	2.17	.....
Bellevue	1.90	3.23	1.50	5.81	3.68	1.84	.....	.....	.....	.....	.....	.....	.....
Bement	3.02	5.32	3.31	6.08	10.07	2.26	.....	6.08	1.00	4.50	3.79	3.37	.....
Benton Ridge	3.17	2.72	1.56	6.53	3.44	3.22	2.23	1.95	1.18	3.35	2.10	2.46	33.91
Bethany	2.89	5.55	2.02	8.02	6.64	3.51	1.14	1.64	3.04	3.18	1.98	2.07	42.28
Big Prairie	1.60	4.40	2.44	6.02	7.03	1.51	2.10	2.69	2.55	4.45	1.78	2.53	39.10
Binola	.....	.....	.....	.....	.....	.....	3.15	4.53	0.67	4.32	2.22	2.90	41.68
Bissells	2.27	3.87	2.64	4.30	9.01	1.92	2.16	3.38	0.95	4.95	1.96	3.78	41.19
Bladensburg	.....	.....	.....	.....	3.02	1.86	3.46	0.79	1.46	3.29	2.78	4.08	.....
Bloom Center	1.40	4.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bloomingburg	.....	5.07	1.88	0.21	4.82	2.58	1.78	3.39	2.36	3.73	2.32	2.64	.....
Bloomington	.....	.....	.....	.....	6.01	3.39	0.30	1.70	2.13	4.20	2.27	3.11	.....
Bowling Green	.....	.....	.....	.....	.....	1.45	3.72	1.10	1.79	3.18	2.65	3.26	.....
Bucyrus	.....	.....	.....	.....	3.95	0.85	3.20	0.95	0.90	4.15	.....	2.90	.....
Cadiz	.....	.....	.....	.....	.....	3.33	1.46	2.97	1.15	5.50	0.55	.....	.....
*Caledonia	2.81	6.00	2.15	6.93	5.80	2.73	2.74	2.40	1.25	4.31	2.16	2.94	42.22
Cambridge	2.32	5.92	1.42	5.80	5.53	3.28	2.86	2.08	1.43	6.58	1.54	3.32	42.08
Campbellstown	3.69	5.32	1.82	7.70	5.91	4.17	2.17	.....	.....	.....	.....	.....	.....
Camp Dennison	3.21	4.09	1.95	8.01	6.03	3.81	3.17	1.07	2.25	2.75	.....	.....	.....
Canal Dover	.....	.....	.....	.....	.....	.....	3.30	2.75	1.56	3.97	1.71	2.23	.....
*Canton	2.50	6.20	2.20	5.23	5.26	3.14	4.82	2.13	1.68	5.25	1.75	2.73	42.89
Cardington	1.89	4.62	1.75	7.73	3.37	2.92	3.10	.....	.....	2.87	1.74	2.15	.....
Carrollton	2.45	6.99	1.94	5.51	4.79	2.87	2.72	2.12	1.30	4.99	1.57	3.13	40.38
Cedarville	1.76	6.58	2.63	.....	.....	.....	.....	1.44	1.62	4.19	2.35	.....	.....
Celina	2.03	4.82	2.39	7.54	4.72	3.72	1.14	0.80	[1]1.56	2.09	2.02	2.05	34.88
Cherry Fork	2.86	5.61	1.93	7.49	4.81	5.14	2.10	1.29	2.89	2.42	2.87	1.56	40.97
Cheshire	.....	.....	.....	.....	1.96	4.44	3.23	2.33	1.28	.....	.....	.....	.....
Chicago	2.46	4.46	1.24	4.29	4.44	1.57	1.93	0.77	1.84	3.68	1.85	0.99	29.52
*Cincinnati	2.87	4.84	1.93	7.10	6.40	4.45	3.79	0.86	3.90	3.17	2.04	2.65	44.00
*Circleville	1.41	4.79	1.98	5.74	4.71	4.32	3.82	1.16	0.39	4.28	1.52	1.91	36.02
Clarksville	2.83	5.65	1.91	8.73	8.54	5.17	1.21	1.77	2.23	4.71	2.08	2.87	47.80
*Cleveland	1.81	3.76	1.95	3.08	7.41	0.89	1.42	3.15	0.53	5.07	1.85	2.96	33.78
Cleveland[1]	2.77	3.96	2.28	3.61	8.46	0.94	1.16	3.25	1.07	6.43	2.13	3.00	39.06
Coalton	1.83	4.38	1.60	4.93	2.63	2.90	1.28	1.64	1.46	5.29	1.94	1.92	31.80
Colebrook	1.96	3.71	[2]2.04	4.19	7.65	3.26	2.20	3.72	0.83	5.99	2.85	3.59	42.39
*Columbus	2.25	7.65	1.92	7.08	4.81	2.89	1.27	1.65	1.14	3.33	2.16	1.97	38.12
Dayton[1]	2.77	4.87	1.98	6.80	5.48	4.08	1.86	0.85	2.59	3.81	1.63	2.17	38.93
*Dayton[2]	.....	.....	.....	.....	6.81	5.18	2.30	1.41	1.64	4.65	2.04	2.51	.....
Defiance	.....	.....	.....	6.02	3.72	3.46	1.83	.....	.....	.....	.....	.....	.....
Demos	2.67	6.39	1.19	.....	[3]2.49	4.69	1.86	3.76	0.96	4.84	1.94	1.94	.....
Dupont	.....	.....	.....	.....	2.87	1.96	1.96	1.59	1.50	3.15	3.16	2.27	.....
Ellsworth	1.00	3.18	0.82	5.25	5.41	2.52	3.53	2.69	1.26	4.16	1.25	2.91	33.98
Elyria	1.86	3.06	2.21	4.47	5.32	1.23	2.11	2.87	0.79	4.24	2.03	2.57	32.76
Findlay	2.13	5.19	1.56	6.12	3.77	3.36	2.68	2.50	1.51	3.41	2.55	2.50	37.28
Fostoria	3.50	4.99	1.82	6.24	2.92	2.01	5.85	1.50	1.28	4.19	.....	2.55	.....
Frankfort	3.00	5.25	2.35	8.37	4.29	3.61	2.39	0.94	1.50	3.97	2.62	2.36	40.65
Garrettsville	2.99	6.11	4.44	5.66	7.07	2.53	2.14	3.04	1.44	5.03	1.88	3.75	46.08
Georgetown	3.64	5.15	2.79	9.49	6.25	5.10	2.42	1.23	.....	.....	.....	.....	.....
Granville	3.08	7.00	2.87	7.01	4.31	5.41	2.70	.....	0.96	3.75	2.26	3.37	.....
Gratiot	2.05	6.38	2.07	6.04	4.15	2.95	5.96	1.13	1.36	4.97	2.03	3.14	42.23
Greenfield	1.62	[3]2.80	.....	6.95	[3]3.05	3.90	2.10	0.80	1.85	3.80	1.65	2.10	.....
Greenhill	2.24	6.15	2.14	6.06	4.99	3.41	2.52	2.79	1.30	5.51	1.35	2.75	41.21
Greenville	3.86	5.42	2.35	8.47	5.79	5.19	2.35	0.97	2.76	2.61	2.12	1.82	43.71
Guysville	.....	.....	.....	.....	.....	4.84	1.86	4.05	2.53	5.63	1.75	2.23	.....
Hackney	3.04	6.19	2.16	6.06	4.85	3.80	1.30	3.80	3.20	5.85	1.46	2.59	44.30
Hanging Rock	2.21	3.88	1.88	6.90	2.12	4.91	2.34	3.54	1.72	6.66	2.87	1.60	40.63
Harbor	2.21	4.60	2.12	4.89	7.93	2.24	1.29	3.54	1.02	6.09	3.23	5.03	44.19
Hedges	1.80	.....	.....	.....	.....	2.30	.....	.....	1.39	.....	.....	2.25	.....
Hillhouse	2.26	4.28	2.21	4.57	11.67	1.69	1.59	2.84	0.81	7.10	4.03	3.70	46.75
Hillsboro	2.51	5.66	2.08	8.45	4.87	2.34	2.07	1.46	3.29	5.71	2.93	2.54	41.91
Hiram	3.09	5.42	4.53	5.37	6.95	2.50	1.83	3.55	1.22	5.19	2.02	3.57	45.24
Jacksonboro	3.90	4.90	1.30	6.60	6.60	3.65	1.15	1.40	2.10	2.25	1.75	1.75	37.35
*Kenton	2.71	5.70	2.66	8.73	7.86	4.61	3.29	1.82	1.57	4.09	2.08	2.22	47.34
Kilbourne	.....	.....	.....	.....	.....	2.82	3.12	1.71	1.07	3.28	1.86	2.28	.....
Killbuck	2.29	5.97	2.39	7.43	4.57	3.50	2.65	2.11	1.86	3.82	2.19	3.09	41.87
Leipsic	1.91	3.49	2.02	6.09	3.44	3.61	3.47	2.12	1.16	3.70	3.01	.....	.....
Levering	3.02	6.43	2.30	8.17	4.33	3.35	2.50	0.89	1.71	3.42	2.31	2.52	40.95
Logan	3.49	7.26	2.08	6.98	3.81	7.45	2.71	2.02	1.46	5.81	1.75	2.70	47.52
Lordstown	2.32	4.87	3.21	5.40	5.20	1.80	2.92	2.56	1.09	5.26	1.25	3.24	39.12
Lowell	3.06	5.01	1.39	5.33	3.91	4.56	1.99	3.84	1.58	4.52	1.13	2.04	38.36
McArthur	.....	4.79	1.84	4.80	4.08	4.28	2.76	4.87	.....	.....	.....	.....	.....
McConnelsville	2.31	4.96	1.99	5.25	4.48	4.02	2.16	2.74	1.86	5.65	1.92	2.73	40.67
*Mansfield	3.10	7.04	2.76	7.59	6.17	2.93	2.36	0.73	2.35	4.09	2.79	3.44	45.35
*Marietta[3]	3.90	5.59	1.42	5.01	4.65	4.41	1.48	4.13	2.28	4.98	1.89	2.72	41.56
Marietta[4]	2.80	6.08	1.39	5.32	4.53	4.08	1.87	3.92	1.19	5.14	2.06	2.11	40.49
Marion	2.79	2.10	1.02	7.65	6.62	2.86	3.07	1.06	1.52	4.44	1.82	2.19	37.14
Milfordton	2.08	2.45	0.84	6.78	3.42	4.90	2.90	0.92	1.36	2.84	0.71	2.58	31.28
Milligan	1.91	5.84	1.20	5.52	2.33	4.34	3.91	2.44	2.27	5.44	1.91	2.18	39.20
Millport	.....	5.54	2.21	5.70	4.96	3.20	2.59	2.86	1.09	5.64	1.22	2.84	.....
Montpelier	2.14	3.74	1.57	6.04	3.14	4.24	2.02	0.35	1.69	3.07	3.88	4.38	36.26
Mountville	2.86	4.06	1.31	5.55	3.14	3.17	2.85	2.38	1.12	6.00	2.52	2.53	37.49
Napoleon	.....	.....	.....	5.18	2.70	1.78	2.51	1.50	1.35	3.71	3.02	2.82	.....
Nelsonville	.....	.....	.....	6.35	4.93	3.94	2.58	1.68	1.60	4.99	1.65	2.06	.....

[1]G. A. Hyde. [2]Mrs. Edith L. Boyer [3]Special river observer. [4]Prof. T. D. Briscoe.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Ohio—Continued.													
New Alexander	3.08	7.38	1.95	5.95	3.71	2.97	3.46	5.36	1.06	4.71	1.44	3.58	44.65
New Berlin	1.01	2.53	1.86	4.61	4.35	1.83	1.83	2.50	1.43	3.72	1.13	3.49	30.20
New Comerstown	2.52	7.20	2.26	7.37	5.35	4.99	2.14	3.16	1.44	6.10	1.94	3.39	47.86
New Holland	1.82	6.90	2.40	7.97	6.26	4.82	4.56	1.65	1.95	3.73	2.46	2.35	46.87
New Paris										2.60	2.06	2.03	
North Lewisburg	4.50	6.95	2.20	9.45	4.35	6.75	2.60	0.70	1.15	4.85	2.50	3.00	49.50
North Royalton	1.70	4.58	3.10	4.47	10.68	1.77	2.56	4.89	0.77	4.47	1.78	3.14	43.91
Northwood				9.04	5.69	5.20	1.69	1.84	1.20	4.63	2.20	1.70	
Oberlin	4.30	5.28	1.87	5.10	7.21	1.64	2.36	1.75	1.42	4.25	2.30	1.03	38.51
Ohio State University	2.13	5.61	1.92	7.08	4.44	2.65	0.89	1.61	1.06	3.30	1.61	2.43	34.73
Orangeville	2.90	5.55	3.10	4.45	7.00	2.20	2.20	2.80			1.50	3.15	
Pataskala	2.14	7.30	2.60	7.82	3.68	3.86	2.20	3.23	1.25	3.50	2.37	3.55	43.50
Piqua	1.93	2.50	1.80				2.90	0.10	1.70				
Plattsburg	2.79	6.67	2.45	7.02	5.09	4.72	2.56	1.74	1.01	3.45	2.41	1.93	41.84
Pomeroy	2.19	3.78	2.00	3.72	4.90	2.16	2.01	2.40	1.20	5.77	1.72	1.17	33.02
*Portsmouth [1]	1.95	4.92	2.02	5.95	2.90	3.09	1.83	1.07	2.45	6.43	2.68	2.05	37.34
Portsmouth [2]	2.31	4.91	2.12	5.91	2.86	2.46	1.81	1.07	3.75	5.98	2.68	2.05	37.61
Ridge	3.07	5.16	1.69		3.51	3.51	2.40	3.62	2.67	5.92	1.88	2.01	
Ridgeville Corners	2.55	3.97	1.83	5.78	3.46	2.84	2.99	1.22	1.47	2.58	3.54	3.24	35.45
Ripley				7.44	3.66	4.12	3.86	0.63	1.50	3.84	2.02	0.99	
Rittman	2.21	5.32	2.56	5.42		[3]0.61	2.03	1.52	1.11	5.98	2.20	2.38	
Rush Creek								0.95	1.05	4.28	1.43	1.60	
*Sandusky	1.94	3.12	1.66	4.95	2.96	0.91	3.45	1.13	0.93	3.27	2.16	2.52	29.00
Sharon Center	2.05	2.16	2.37	5.21	8.01	1.49	1.59	1.70	0.96	4.52	1.79	2.91	34.78
Shenandoah		4.75	2.27	6.95	5.88	1.93	2.62	1.10	1.93	3.34	1.87	2.02	
*Sidney	3.06	5.82	2.41	9.04	7.93	6.08	1.60	0.60	1.15	4.47	2.25	2.37	46.78
Springboro	1.20	5.26	2.19	7.82	5.79	4.02	2.50	5.23	1.62	4.31	1.16	2.90	44.00
Spring Valley											1.39		
Stoutsville						6.29	3.42	3.27	1.89	3.95	2.28	2.11	
Strongsville	1.44	3.82	2.95	3.92	11.17	1.13							
Sylvania		3.02	1.79	4.21	1.95	3.27	1.47	0.68	1.58	4.83	2.93	3.14	
Thurman	2.13	4.49	1.65	4.33	1.64	2.86	2.11	2.42	0.58	5.98	2.71	2.80	33.70
Tiffin	2.28	3.69	1.48	5.25	2.90			1.35	1.18	5.72	2.15	2.51	
*Toledo	1.05	2.34	1.18	3.17	1.24	2.00	1.36	1.45	0.94	3.49	2.49	3.10	23.81
Tyrone	1.24	5.51	2.26	7.49	3.66	3.53	3.74	3.09					
Upper Sandusky	2.82	4.37	1.94	5.64	4.36	2.59	2.51	0.94	1.09	5.31	2.19	1.61	35.37
Vanceburg	2.86	4.47	3.94	6.44	2.63	4.21	3.37	1.50	2.38	4.57	2.21	2.84	41.42
Van Wert	2.16	4.41	1.91	7.35	3.64	2.87	1.02	0.41	1.61	3.21	2.80	2.09	33.48
Vermillion				3.44	3.78	1.68	3.81	1.90	0.99	3.97	1.97	2.05	
Vickery				4.99	3.47	1.45	4.31	0.40	1.34	4.29	1.95	2.93	
Walnut	1.89	5.52	2.20	6.22	5.78	5.16	2.57	3.27	1.40	4.03	1.61	2.32	41.97
Warren		6.44	3.68	4.14	6.00	4.68	1.95	2.52	1.37	5.00	1.17	3.11	
Wauseon	2.47	5.34	3.97	6.06	2.32	3.09	5.06	0.49	2.96	3.31	3.88	4.69	42.74
Waverly	2.26	5.33	2.50	7.79	3.07	4.08	2.08	2.19	2.77	3.91	2.11	1.95	40.04
Waynesville	2.64	6.15	2.70	8.66	6.57	3.93	2.85	3.46	2.38	4.16	1.90	2.88	48.28
Wellington				3.52	7.65	0.63	3.54	2.43	1.11	4.08	2.00	2.19	
Westerville	2.96	5.89	1.93	7.37	4.09	2.92	2.93	2.35	1.26	3.56	2.21	3.35	40.82
West Milton		4.55	3.33	7.35	5.95	7.89	2.94	0.60					
Weymouth	4.35	3.43	1.33	3.53	5.69	1.17	3.14	2.82	1.05	4.12	2.18	2.80	35.61
Wheeler	2.95	7.26	2.93	4.99	12.47	1.34	1.47	4.11	0.85	4.94	3.82	5.35	52.48
Wooster [3]	4.01	6.33	1.89	5.66	6.28	2.51	1.38	1.53	1.85	5.15	2.49	1.50	40.58
*Wooster [4]	2.12	6.36	2.21	5.79	6.28	2.57	1.30	1.28	1.85	5.21	2.49	1.50	38.96
Youngstown	2.27	5.58	2.39	4.75	6.35	1.62	2.41	2.75	1.69	3.95	1.28	1.80	36.84
*Zanesville	1.42	5.41	1.66	4.61	6.31	2.05	2.53	2.23	1.51	7.25	2.07	2.87	39.92
Oklahoma.													
Anadarko	0.35	0.40	1.85	0.59	1.20	0.70	3.59	7.36	3.03	0.00	0.03	1.52	21.22
Arapaho								4.95	2.62				
Britton										0.22			
Buffalo						2.31	1.43	12.55	2.04	0.68			
Burnett	0.73	0.97	1.18	2.30	2.18	1.45	4.85	5.84	4.05	0.90	1.76	1.77	27.98
Cloud Chief						2.22	4.58	4.93	3.66	0.00			
Fort Reno	0.30	0.72	1.90	1.92	1.88	3.25	5.82	10.25	1.17	0.00	0.93	1.46	29.40
Fort Sill	2.95	1.17	1.36	0.37	3.50	0.51	1.91	4.70	3.65	0.00	1.30	2.77	24.19
Fort Supply	0.02	0.62	0.20	0.25	1.43	0.74	1.60	4.37	2.72	0.00	0.70	0.50	13.15
Gate City	T.	1.24	0.03	0.01	1.04	0.94							
Guthrie	0.34	0.73	2.14	3.54	4.11	3.15	1.32	4.82		0.00			
Keokuk Falls	0.95	1.39	1.80	3.55	1.32	2.88	2.37	4.16	2.40	0.23	1.46	0.80	23.31
Mangum	0.25	0.81	0.55	0.33	1.55	1.34	0.97	3.12	1.62	0.08	0.10	0.67	11.39
*Oklahoma City	0.43	0.69	1.25	3.12	1.53	1.60	3.80	5.65	3.20	0.06	1.26	1.69	24.28
Ponca	0.53	0.85		1.60	1.87			0.83	2.50	0.00	2.81	0.95	
Sac and Fox Agency	0.50	1.01	1.75	2.37	3.83	3.17	2.40	5.20	2.07				
Stillwater	0.52	0.40	1.43	6.14	3.40	1.24							
Winnview	0.25	2.19	0.98	1.82	2.24	3.73	2.90	7.81	1.44	T.	1.45	1.80	26.11
Oregon.													
*Albany [5]	2.31	6.66	2.71	5.51	3.13	0.81	0.27	0.05	2.77	6.82	10.58	4.46	46.08
Arlington	0.78	1.03	0.51	0.97	1.21	0.11	0.22	0.00	0.89	2.27	2.66	0.48	11.13
Ashland [6]	0.76	3.34	1.99	2.43	2.07	1.05	0.21	0.00	2.83	2.51	3.47	3.56	24.22
*Astoria	3.00	12.42	8.55	13.39	5.44	5.11	0.50	0.63	5.03	7.65	17.41	12.55	91.68
Aurora (near)	1.89	4.72	4.77	6.52	3.80	1.93	0.17	0.06	3.16	8.77	8.89	5.97	50.45
Bake Oven	0.60	0.20	1.20	2.20									
*Baker City	0.82	1.62	1.50	1.85	1.54	0.04	0.49	T.	1.92	2.52	2.56	0.97	15.83
Bandon	6.12	13.01	10.84	13.66	4.28	2.29	0.01	0.01	7.08	11.38	14.04	10.86	93.58
Beulah	1.50	1.45	0.78	1.33		0.29	0.06	0.00	1.44				
Burns	1.35	0.50	0.60	0.10	T.	T.	T.	0.00	1.25	1.04		0.80	
Canyon City	0.70	2.35	1.70	3.75	2.83	0.37	0.25	0.00	3.44	2.62	3.76	1.45	23.25
Cascade Locks	2.14	11.46	10.03	13.81	4.70	3.02	0.15	0.16	7.06	8.00	15.70	13.37	89.60

[1] Special river observer.
[2] Dr. D. B. Cotton.
[3] Agricultural Experiment Station.
[4] Special rainfall observer.
[5] John Briggs.
[6] F. E. Carter.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Oregon—Continued.													
Cornelius				6.03	2.22	1.50	0.09	0.03				5.12	
Corvallis[1]	2.35	5.40	4.55	5.18	3.66	0.60	T.	0.09	3.24	5.07	8.28	4.02	43.04
Corvallis (near)	3.04	7.74	4.75	7.51	3.70	0.60	0.05		2.92	6.18	10.14	5.57	
Crook	1.28	2.33	1.65	2.83	1.95	0.06	0.16	T.			2.15	4.45	
East Portland	1.23	2.04	5.55	7.22	3.16	0.63	0.00	0.06	3.45	3.20	9.22	4.67	40.43
*Eugene	2.47	5.48	2.57	4.49	3.07	0.31	0.33	0.00	4.33	6.64	7.59	3.93	41.21
Fife	0.29	0.66	0.40	1.91				T.					
Forrest Grove	2.42	5.29	4.53	4.19	3.35	1.58	0.02			7.24	12.17	5.71	
Gardiner	4.23	10.74	9.05	10.22	4.13	2.99	0.13	0.30	6.33	9.68	16.53	8.88	83.21
Glenora		16.97	14.10	21.75	5.68	5.64	0.21	0.24	7.09	16.57	34.88	25.40	
Grants Pass[2]	3.33	5.78	3.57	3.14	1.35	1.87	0.03	0.00	2.17	2.05	6.00	3.66	32.95
Happy Valley	1.09	1.11	1.33	2.16	1.39	T.	0.32	T.	1.63	1.15	2.24	0.65	13.07
Heppner	0.74	1.11	1.90	2.89	2.68	0.12	0.29	T.	3.48	2.15	2.29	1.14	18.79
Hood River (near)	3.25	8.03	4.23	5.76	2.58	0.50	0.33	0.00	3.26	9.81	9.56	6.86	54.17
Hubbard	1.67	5.91	4.68	6.85	2.83	1.40	0.16	0.00	3.54	9.92	7.59		
Jacksonville	2.00	3.89	2.07	2.62	2.58	1.61	0.14	0.00	1.77	2.40	6.87	2.35	28.30
Joseph	0.77	2.32	2.00	2.58	1.29	0.15	1.17	T.	2.52	4.89	2.22	0.54	20.45
La Grande	1.51	2.05	2.95	3.70	2.89	T.	1.05	T.	2.36	5.13	3.62	1.78	27.04
Lakeview	1.89	2.97	1.74	2.44		0.07	0.31	0.00	1.19	1.59	3.68	1.65	17.51
Langlois	6.62	13.44	15.85	14.45	4.70	2.04	0.12	0.00	4.89	9.62	20.42	9.90	102.05
Lone Rock	1.20	1.10	0.82	2.20	3.15		0.26	0.00	1.90	2.07		1.50	
McMinnville[3]	2.05	7.32	5.67	8.02	2.36	1.12	0.13	0.00	2.20	4.15	11.57	5.34	49.93
Mount Angel	1.73	6.08	4.45	5.55	2.99	1.66	0.00	0.01	3.11	7.59	9.46	4.68	47.31
New Bridge	0.80	0.90	0.55		1.20	0.20	0.50	0.02	0.64		0.90	1.03	
Newport	1.84	7.81	5.09	9.24	2.93	3.09	0.07	0.17	2.80	6.47	14.68	8.80	62.99
Oregon City					3.16	1.91	0.23	0.07	3.36	8.64	11.08	6.90	
Pendleton						0.30	0.09	0.00	1.60	2.35	1.78	1.17	
*Portland	2.12	5.19	3.48	4.89	2.39	0.99	0.14	T.	2.56	5.01	7.74	4.61	39.03
*Roseburg	3.14	7.01	2.02	4.11	2.41	0.69	0.05	0.01	3.80	5.00	6.08	3.54	37.86
*Salem[4]	1.90	5.43	4.16	7.50	4.20	1.24	0.00	0.10	3.55	7.49	9.33	4.18	49.08
Silver Lake	1.50	0.75	1.09	0.93									
Sparta	1.95	1.80	2.40	1.98	1.88	T.	1.99	0.05	2.84	3.33	2.79	2.58	23.59
Springbrook	1.48	5.15	4.00	5.54	2.50	1.09	0.08	0.03	3.27	6.19	10.16	5.08	44.57
*The Dalles	0.69	1.84	0.96	1.69	0.69	0.06	0.30	0.00	1.21	4.40	4.36	1.77	17.97
Tillamook Rock	0.78	5.94	6.18	9.82	2.89	3.59	0.19	0.63	3.45	5.50	8.33	8.09	55.39
Toledo	3.71	10.84	9.89	11.29	3.69	2.67	0.00	0.04	3.98	8.30	18.89	9.64	82.85
*Umatilla	2.33	0.54	0.65	0.66	1.47	0.03	0.00	0.00	0.98	1.53	1.47	1.19	10.85
Vale	0.88	0.38	0.57	1.36	0.89	0.26	0.14	T.	1.95	0.64	1.77	0.34	9.18
Vernonia	2.98	11.52	6.92	9.38	0.00	1.92	0.65	0.19	4.14	7.34	15.34	8.00	68.38
Weston		2.99		3.44	3.56	0.28	0.19	T.	3.80	4.12	3.20	1.75	
Williams	2.40	5.05	2.95	4.06	1.77		0.19	T.	1.31	2.73	7.25	5.52	
Oregon Railroad Stations.													
Albany	2.79	3.03	2.77	3.91	3.85	0.64	0.02	0.00	1.82	4.93	7.30	5.15	36.21
Ashland	0.91	3.34	1.99	2.43	2.07	1.05	0.21	0.00	2.83	2.05	3.32	3.15	23.35
Aurora	1.33	4.13	4.29	4.63	3.16	1.37	0.22	0.00	3.69	9.09	7.99	4.81	44.71
Brownsville	1.46	4.93	2.22	5.25	3.31	1.14	0.03	0.00	3.74	6.44	7.20	4.49	40.21
Comstock	1.52	6.02	3.99	6.13	3.81	0.99	0.00	T.	4.48	7.90	9.63	4.59	49.06
Corvallis	2.22	5.21	3.12	4.45	3.00	0.47	0.00	0.00	2.81	5.12	7.91	4.31	38.62
Grants Pass	2.47	4.15	3.45	2.84	1.89	1.72	0.00	0.00	1.75	2.17	4.66	4.28	29.38
Junction City	1.69	7.89	0.63	3.43	1.98	0.24	0.00	0.00	2.03	4.60	8.02	1.90	32.41
La Fayette	2.59	7.19	4.32		1.34	0.54	0.09	0.00	2.64	6.78	12.41	6.58	
Leland	4.99	8.09	4.42	4.75	1.57	1.70	0.00	0.00	2.82	3.11	6.07		
McMinnville	1.52	5.51	3.47	7.67	1.47		0.05	0.00	2.20	4.15	10.94	5.98	
Merlin												4.12	
Monmouth	1.95	4.82	3.35	4.85	1.37	0.22	0.00	0.00	2.14	5.52	9.63	3.82	37.67
Portland	1.60	3.66	4.15		2.81	1.45	0.13	0.00	2.83	5.92	9.53	5.22	
Riddles	3.47	4.77	2.41	2.69	1.48	1.17	0.00	0.00	2.98	3.23	4.05	2.05	28.30
Roseburg	2.79	5.18	1.53	5.05	2.17	0.62	0.00	0.00	3.28	4.63	5.01	3.94	34.20
Salem	1.90	5.43	4.16	3.46	2.88	0.55	0.00	0.10	3.55	7.49	7.16	4.70	41.38
Sheridan	2.42	5.43	4.39	6.50	1.86	0.68	0.00	0.06	2.88	5.86	9.38	5.03	44.49
Silverton	1.60	4.45	3.56	5.39	2.96	1.78	0.20	0.00	3.55	7.70	8.65	5.20	45.04
Siskiyou	3.60	8.40	6.20	3.70	4.40	0.00	0.80	T.	2.88	1.95	8.10	2.75	42.78
Springfield	2.86	6.17	2.48	4.83	3.32	0.67	0.00	0.00	0.98	7.44	7.01	5.10	40.86
West Fork	9.35	7.97	2.65	5.43	2.17	1.00	0.00	0.00	3.71	3.95	8.52	3.74	48.49
Pennsylvania.													
Altoona	1.65	3.21	1.06	3.48	4.67	2.94	2.50	2.92	1.85	2.71	1.48	2.15	30.62
Aqueduct	2.43	7.96	2.96	4.13	6.40	3.83	2.30	3.78	2.66	3.29	3.14	2.25	45.13
Beaver Dam							2.47	4.98	1.32	5.63	1.91	2.78	
Blooming Grove	3.41	5.60	4.16	3.71	6.72	1.20	2.53	5.75	2.61	1.51	3.95	3.30	44.45
Bloomsburg	[1]1.61	6.10	2.49	3.34	7.07	2.93	3.55	3.07	2.65	1.18	1.44	1.41	36.84
Blue Knob	4.60	6.59	1.94	6.20	9.20	2.49	3.70	3.58	2.76	6.58	2.79	4.08	54.51
*Brookville	2.38	7.03	2.44	4.83	5.02	4.23	4.73	2.81	2.06	2.49	2.19	3.38	43.59
Browers Lock		5.34	2.72	4.84	4.08	2.22	2.35	3.06	3.41	3.42	4.81	3.13	
Carlisle	2.41	4.56	1.44	3.71	5.49	3.42	1.57	5.82	2.56	0.97	3.92	1.60	37.47
Chambersburg			1.53	4.49	6.24	1.80	2.12	2.61	2.30	3.85			
*Clarion	2.90	9.26	4.20	6.91	5.09	6.50	6.27	4.12	2.53	3.46	2.54	4.78	58.56
Coatesville	3.19	5.74	2.88	5.50	3.86	3.93	2.70	4.68	3.67	4.08	5.69	3.68	49.60
*Confluence	2.37	5.71	1.36	6.37	6.64	2.89	2.65	3.25	2.46	3.99	2.72	2.98	43.39
Coopersburg	4.26	6.50	2.53	4.07	5.42	2.86	1.96	6.22	3.23	3.26	3.89	2.64	46.84
Corry	2.68	7.03	3.30	5.25	6.86	5.61							
*Davis Island Dam	2.56	4.39	0.98	4.55	4.70	3.12	2.34	4.54	1.66	3.18	1.21	2.88	36.71
Doylestown	3.29	5.97	3.24	4.66	4.28	2.98	1.32	9.99	3.05	2.94	4.50	2.33	48.55
Drifton	1.97	3.92	3.44	4.63	8.94	1.70	4.66	6.65	4.19	[3]3.36	[3]2.58	[1]1.93	47.97
*Du Bois	3.17	7.50	2.70	4.34	4.66	4.10	3.90	3.73	2.61	2.33	2.60	3.47	45.11
Dyberry	2.12	6.58	3.30	3.65	6.21	3.06	4.62	4.45	3.58	2.17	2.17	3.32	45.23
East Mauch Chunk	3.59	7.37	4.24	3.92	6.68	1.54	3.26	4.45	3.85	2.94	3.26	2.84	47.94
Easton	3.56	6.46	3.10	3.86	4.82	1.66	3.51	5.29	2.92	2.62	[4]3.21	3.24	44.25

[1] State Agricultural College. [2] J. B. Paddock. [3] Capt. W. Harris. [4] C. T. Roberts.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.[1]	Sept.	Oct.	Nov.	Dec.	Annual.
Pennsylvania—Continued.													
Emporium	3.11	5.91	2.92	4.21	4.99	4.83	2.37	3.00	2.10	3.36	2.05	4.07	42.92
*Erie	2.40	5.85	1.89	3.67	7.99	3.20	1.79	3.61	1.13	3.84	1.97	2.65	39.99
Forks of Neshaminy	3.46	5.36	2.16	5.66	4.22	3.40	1.56	6.93	3.51	3.35	4.06	2.97	46.64
Frederick	2.34	5.21	2.64	4.01	4.51	5.28	1.68	4.46	3.10	2.45	4.48	2.99	43.15
*Freeport	3.32	6.77	1.47	5.65	4.72	3.91	2.88	3.23	2.37	3.99	1.57	3.67	43.55
*Gettysburg	2.04	3.40	2.24	5.20	7.36	3.26	1.18	3.18	3.29	4.00	2.97	1.77	39.95
Girardville	4.09	7.00	4.82	3.58	8.51	2.17	4.87	4.11	3.10	3.87	3.57	3.23	52.92
Grampian	4.12	6.77	2.49	4.89	5.47	2.25	4.21	3.26	3.21	2.62	1.72	4.10	45.11
*Greensboro	2.67	5.00	0.86	5.04	4.96	1.58	2.04	3.19	1.18	2.84	2.03	2.37	33.76
Hamburg	.....	.....	3.97	4.53	6.82	1.63	3.34	5.74	5.59	3.57	3.54	3.07	.....
*Harrisburg	2.05	4.66	1.97	3.67	5.32	2.46	1.92	3.69	1.74	3.25	2.54	1.91	35.18
Hollidaysburg	2.41	6.39	1.86	5.22	5.23	1.61	2.26	4.18	1.92	3.93	2.13	2.32	39.46
Honesdale	2.39	5.67	3.35	3.89	5.70	2.20	3.77	3.17	2.83	1.99	2.49	4.08	41.53
*Huntingdon	2.10	5.27	2.07	4.61	7.79	2.37	2.39	3.49	3.50	3.70	2.46	2.46	42.21
*Johnstown	2.93	7.76	1.45	5.44	6.26	2.02	2.81	2.22	2.26	3.22	2.09	3.58	42.04
Kane	2.40	5.18	2.26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kennett Square	2.69	6.29	3.01	4.55	3.61	3.46	2.52	3.74	4.24	*2.37	4.34	3.29	44.11
Kilmer	2.02	4.62	1.67	5.34	6.32	2.52	2.72	5.19	2.90	*4.41	3.42	1.67	42.80
Lancaster	2.38	4.08	2.24	5.07	6.26	4.25	.....	3.77	2.78	3.30	3.76	1.70	.....
Lansdale	2.63	5.71	1.50	4.59	3.59	3.21	1.91	5.32	3.52	3.71	4.67	3.05	43.41
Lebanon	2.10	5.67	2.63	3.67	8.05	2.21	2.67	5.30	3.79	3.95	3.42	2.35	45.81
Le Roy	2.59	3.86	3.10	4.19	7.76	1.96	2.18	5.92	2.70	3.91	2.07	2.71	42.95
Lewisburg	2.40	4.57	3.07	4.62	6.42	4.36	2.35	.....	1.74	3.20	1.61	.....	.....
Ligonier	2.60	.....	1.73	5.52	6.13	3.67	6.21	2.19	2.84	2.98	.....	.....	.....
*Lock Haven	2.71	5.28	2.26	4.72	4.89	2.51	3.34	2.82	3.70	2.67	1.09	2.14	38.13
*Lock No. 4	2.81	5.43	1.06	4.62	5.19	2.90	2.92	2.42	1.10	3.84	1.35	3.32	36.96
Lycippus	2.12	5.34	1.43	5.87	5.60	3.75	6.36	1.68	1.57	2.92	1.72	3.51	41.87
*Mahoning	2.88	9.28	2.30	5.71	4.33	4.52	4.89	4.48	2.77	3.40	2.36	4.46	51.38
McConnellsburg	1.71	4.18	1.77	4.61	6.20	1.87	2.90	.....	.....	.....	.....	.....	.....
Meadville	.....	7.23	3.35	5.30	7.48	3.21	3.65	7.03	0.57	.....	.....	.....	.....
*Newcastle	2.60	4.65	2.11	3.09	6.23	4.38	6.08	3.37	2.07	4.59	1.39	2.24	42.80
*Oil City	3.29	8.11	2.92	4.92	6.15	3.99	4.52	3.04	2.39	4.02	1.99	4.63	49.97
Ottsville	2.70	4.90	2.67	4.80	4.85	3.92	1.83	7.46	3.04	3.08	4.19	3.07	46.51
*Parker	2.70	7.80	3.18	5.40	5.28	6.41	2.68	4.58	2.53	4.38	2.47	4.09	51.50
*Philadelphia	2.58	4.85	2.57	4.47	2.92	3.07	2.04	2.43	3.76	3.32	2.51	3.13	37.65
Philadelphia[1]	.....	4.47	2.02	4.20	2.54	.....	2.15	2.76	3.85	2.71	.....	3.73	.....
Philadelphia[2]	2.90	5.89	2.67	5.50	3.12	3.60	2.96	3.90	3.96	3.56	3.81	3.36	45.23
Philadelphia[3]	2.66	4.97	.....	5.71	3.37	3.24	.....	.....	.....	.....	.....	.....	.....
Phœnixville	2.62	5.54	2.68	5.24	4.64	2.49	2.81	3.61	3.01	3.49	4.74	3.05	43.92
*Pittsburg	2.36	4.74	1.17	4.94	4.50	2.87	5.08	2.94	1.86	3.22	1.46	2.70	37.84
Point Pleasant	2.80	6.06	1.84	4.80	5.04	4.99	2.32	9.71	3.01	4.08	4.40	3.30	52.35
Pottstown	3.21	6.40	2.82	6.20	4.80	3.64	1.99	4.52	3.69	3.13	4.78	2.81	47.99
Quakertown	3.65	6.93	3.11	5.15	5.41	2.21	2.25	8.90	3.67	3.42	4.44	3.49	52.63
Reading	2.15	5.49	2.70	2.95	4.44	2.40	2.91	3.25	3.83	3.18	3.39	1.99	38.68
*Ridgway	2.31	5.03	2.73	4.58	4.14	2.64	3.49	4.19	1.86	2.30	2.35	3.67	39.29
Saegerstown	4.06	8.23	2.94	4.43	8.89	3.25	2.13	5.20	0.72	3.00	3.04	3.71	49.60
Salem Corners	4.43	7.20	4.32	4.45	5.21	1.80	4.01	5.42	2.82	2.70	2.74	4.25	49.35
*Saltsburg	2.25	4.44	0.71	4.40	4.94	4.19	2.01	2.76	1.81	2.79	1.06	3.04	35.00
Seisholtzville	1.57	5.84	3.16	4.20	6.21	2.22	2.32	6.44	3.19	3.19	3.95	2.51	44.80
*Selins Grove	2.78	5.63	3.57	4.64	6.85	4.44	2.32	4.07	3.12	4.21	2.40	2.75	46.78
Shinglehouse	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.26	4.13	.....
Skippack	.....	.....	.....	.....	.....	.....	.....	5.76	2.94	2.50	4.21	.....	.....
Smithport	.....	.....	.....	4.60	4.90	3.68	3.56	4.15	2.92	3.65	2.83	6.07	.....
Smiths Corners	2.98	5.63	2.24	5.08	4.64	5.08	2.00	8.63	3.09	4.32	4.47	3.39	51.55
Somerset	3.68	8.38	1.67	5.46	7.30	2.02	3.37	3.93	3.26	3.02	1.16	1.75	45.60
South Eaton	2.69	5.49	3.03	3.53	5.12	2.98	3.83	5.41	2.21	1.88	1.94	2.46	40.57
State College	1.94	5.71	1.88	5.13	6.46	3.94	4.10	3.14	2.22	3.23	3.04	2.26	43.05
*Stoyestown	3.79	7.22	1.49	4.85	6.14	3.28	3.41	2.91	2.14	4.61	3.36	4.71	47.91
Swarthmore	3.31	5.15	3.31	5.51	3.48	.....	.....	.....	.....	3.35	4.04	3.17	.....
Uniontown	2.23	4.23	0.98	6.11	5.68	2.34	.....	.....	1.30	3.22	[5]2.94	4.11	.....
*Warren	2.76	5.51	3.01	4.10	6.28	4.82	1.79	6.44	1.28	3.53	3.28	5.91	48.71
Wellsboro	4.92	6.55	5.09	5.38	6.58	1.42	2.50	4.59	2.03	2.88	3.00	4.21	49.15
West Chester	2.77	6.13	2.40	5.02	4.18	2.59	2.60	3.65	2.58	3.45	4.76	3.16	43.29
*West Newton	3.14	5.68	0.99	5.55	5.54	2.77	2.22	3.53	1.39	2.54	1.27	3.31	37.93
Westtown	2.40	3.95	.....	.....	3.15	1.30	.....	.....	1.35	.....	.....	3.07	.....
*Wilkesbarre	3.34	7.23	3.83	3.27	4.15	1.43	3.00	3.76	3.74	1.70	2.97	4.07	42.49
Wysox	5.48	2.92	2.91	.....	3.05	2.65	3.88	5.43	2.89	1.33	.....	.....	.....
York	1.76	4.76	1.76	4.37	6.53	2.50	1.58	3.40	1.57	3.03	3.55	2.22	37.03
Rhode Island.													
*Block Island	2.65	6.06	5.73	5.45	4.92	1.61	0.97	5.41	2.58	2.75	2.16	4.55	44.84
Bristol	2.20	6.83	3.17	2.83	3.65	2.26	.....	.....	.....	.....	2.70	5.17	.....
Kingston	3.14	9.44	6.47	5.96	6.12	3.92	0.95	5.84	3.76	3.02	3.37	5.52	57.53
Lonsdale	3.77	8.31	5.10	4.15	6.13	2.48	1.02	4.61	2.90	3.90	2.99	4.79	50.09
*Narragansett Pier	2.97	6.61	4.22	4.85	5.81	2.57	0.82	4.85	3.42	2.80	2.72	5.08	46.22
Pawtucket	2.18	5.82	5.14	3.97	5.90	2.39	0.96	4.06	2.54	3.47	2.52	4.81	43.76
Providence[4]	3.47	7.88	5.59	4.51	6.24	3.59	1.10	4.24	2.27	4.25	2.72	5.42	51.28
Providence[5]	2.20	7.55	5.01	4.09	5.68	3.66	.....	.....	.....	.....	.....	.....	.....
Providence[6]	2.86	8.32	5.77	4.69	6.45	3.84	1.20	4.26	2.55	4.49	2.87	5.26	52.56
South Carolina.													
Aiken	3.20	6.73	.....	.....	.....	.....	.....	.....	.....	.....	2.12	4.59	.....
*Allendale	.....	.....	.....	.....	6.84	8.61	3.29	12.71	1.10	3.14	1.52	.....	.....
*Anderson	2.02	7.71	2.20	1.95	5.36	6.52	2.06	5.94	6.76	5.36	2.41	1.82	50.11
*Batesburg	.....	.....	.....	.....	6.15	12.05	4.51	13.06	4.68	3.94	2.65	.....	.....
Blacksburg	.....	.....	.....	.....	.....	8.69	3.04	11.57	4.84	6.69	2.78	1.48	.....
*Blackville	.....	.....	.....	.....	3.50	6.07	3.31	10.09	2.73	3.87	1.70	.....	.....
Brewer Mine	.....	.....	.....	.....	4.05	7.55	2.06	13.99	2.50	7.26	4.40	.....	.....

[1] John E. Codman.
[2] John Conly.
[3] R. L. Paddock.
[4] Office city engineer.
[5] D. W. Hoyt.
[6] Ladd Observatory.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
South Carolina—Continued.													
*Camden	2.36	5.13	1.18	0.48	5.50	7.11	2.93	8.70	1.99	4.13	1.97	3.63	45.11
Central							2.06	5.15	13.08	3.98	2.62	1.92	
*Charleston	3.22	2.97	3.07	1.16	3.36	16.50	4.65	15.53	7.10	7.51	1.36	4.56	70.99
*Cheraw [1]	0.91	7.25	1.97	0.63	5.34	2.58	2.87	14.41	3.58	2.79	2.20	3.42	47.95
Cheraw [2]	2.31	6.10	2.30	0.98	5.88	4.44	3.38	16.69	4.41	3.39	1.66	4.09	55.63
*Clemson College				2.35	3.43	6.41	1.85	5.13		3.73	1.67	1.63	
*Columbia	1.36	4.83	1.20	0.47	3.79	8.53	2.95	8.64	2.79	2.48	1.72	2.91	41.67
Connors						10.73	4.48	22.26	4.39	6.59	1.33	4.08	
*Conway				2.09								3.56	
Cross Hill							3.11	9.11	3.12	5.49	3.46	1.71	
Davis Bridge							7.56	16.53	2.43				
*Effingham	2.77	4.28	2.60	0.61	5.07	7.71	1.74	15.44	3.02	4.93	2.14	3.50	53.81
Flint Hill	2.12	4.00	1.02	0.75	4.90	4.89	2.81	9.63	3.92	3.82	1.20	2.33	41.39
*Florence					4.08	12.61	3.38	14.17	5.29	4.41	2.63		
*Gaffney												1.21	
Georgetown						12.40	7.40	18.45	4.79	4.33	0.86	4.67	
*Greenville	2.31	8.25	2.01	2.95	3.87	6.66	4.88	5.69	4.49	5.43	2.89	1.99	51.42
*Greenwood	0.60	5.50			3.02	5.56	1.59	5.48	3.16	0.72	1.96		
*Hardeville					3.90	8.08	1.48	24.67	12.32	8.16	1.26		
Hollands Store			1.63	1.83	4.56	6.07	2.76	6.36	7.85	3.16	2.04	1.31	
*Kingstree					2.81	7.57	4.28	11.26	2.55	3.97	1.47		
Kitchings Mills	2.65	5.96	2.55	0.49	3.53	5.31	3.49	14.55	2.55				
Little Mountain										3.74	1.15	2.49	
Longshore	2.26	6.55	1.52	1.11	4.59	5.30	4.12	11.99	3.49	5.09	2.71	2.11	50.84
McCormick						2.32	[5] 1.60	6.38			1.28	2.52	
Martins					4.48	10.63	3.13	12.23	3.77	4.95	1.98	4.26	
*Mount Carmel	2.24	6.97	1.71	1.98	2.98	4.74	4.66	7.26	4.93	3.25	1.75	1.91	44.38
*Nichols	3.25	3.25	2.84	1.65	4.46	5.67	1.82	8.18	3.43	7.04	1.48	4.33	47.40
Pinopolis					3.44	11.72	3.63	18.88	4.03	7.07	1.63	4.28	
Port Royal	2.68	3.73	3.78	1.24	3.50	8.64	4.84	13.71	6.05	4.72	0.90	3.22	57.01
*St. Georges					2.95	7.88	4.04	20.45	3.00	4.03	1.83		
*St. Mathews					3.25	8.38	3.33	12.48	1.71	3.50	2.37		
*St. Stephens	2.82	2.74	3.28	1.14	4.13	10.63	6.48	24.24	4.14	5.00	1.05	3.77	69.42
Santuck									4.57	5.86	2.50	1.41	
Sedalia							5.69	11.48	3.92				
Simpsonville	1.75	4.56		2.41	4.82	6.56	4.41	6.23	5.18	5.98	4.93	1.77	
Society Hill	2.60	6.75	1.59	0.96	5.80	5.55	6.65	10.20	8.18	4.52	3.16	3.86	59.82
*Spartanburg					4.00	8.24	2.17	10.77	2.38	4.17	3.33		
Statesburg	2.76	5.03	1.32	0.65	3.91	7.27	3.43	14.29	2.81	4.68	2.19	3.81	52.15
Tatum											2.03	3.66	
*Tillers Ferry [3]	2.48	6.13	1.43	0.64	5.37	5.80	4.59	14.61	1.72	4.84	2.20	4.12	53.93
Tillers Ferry [3]							5.13	12.45	1.76				
Trenton					4.40	7.26	6.75	13.20	4.14	5.29	1.85	2.98	
Trial	4.20	4.03	3.71	0.89	3.30	10.67	7.75	15.35	3.41	5.49	1.27	2.92	62.99
*Waterce	2.68	5.03	2.46	0.85	3.53	8.76	1.35	18.87	3.27	6.06	2.61	3.47	58.44
Watts					2.29	5.61	4.18	8.64	2.48	4.45	1.96	1.48	
Yorkville	2.01	5.74	1.68	1.41	3.96	7.05	2.43	9.36	6.03	6.54	1.91	1.71	49.83
*Youngs Island					4.23	7.36	6.84	16.85	6.16	5.92			
South Dakota.													
Aberdeen	0.80	1.60	2.90	4.78	1.89	1.29	4.09	1.84	0.23	0.64	0.50	1.40	
Alexandria	0.75	0.50	4.20	5.35	5.76	1.52	4.25	2.42	0.60	3.35	0.20	1.00	26.90
Ashcroft	0.60	0.50	1.20	0.59	3.51	1.47	1.75	0.94	0.93	0.76	0.55	0.84	13.64
Bear Valley			1.35	3.20	2.09	1.19	1.37	1.64	0.19	2.01	0.23	0.63	
Bowdle	0.80	0.50	3.00	0.81	2.12	2.73	1.82	1.94	0.88	1.12	0.35	0.70	16.77
Britton	1.05	1.05	1.06	2.55	0.66	1.80	1.80	1.93				0.58	
Brookings	0.30	0.86	2.34	[3.00]	2.85	1.54	0.68	1.70	0.56	0.44	0.04	0.27	[14.58]
Carthage	0.80	T.	0.90	4.01	0.98	1.79	1.42						
Castlewood	0.90	1.40	1.93	1.58	2.53	1.02	2.42	2.02	0.36	0.81	0.40	0.86	16.23
Clark	0.70			3.52	3.25								
Cross	0.23	0.75	0.88	1.38	1.90	3.15	2.56	0.49	0.30	0.85	0.43	0.58	13.50
De Smet	0.30	0.60	2.20	3.00	1.90	1.29	1.70	1.20	0.50	T.	0.15	1.20	14.04
Faulkton	0.62	1.72	5.89	3.61	2.28	2.36	3.59	0.59	0.29	1.61	0.25	0.42	23.23
Flandreau	0.23	0.95	0.73	6.85	4.24	1.13	1.31	2.15	0.67	0.42	0.22	1.36	20.26
Forestburg	0.62	1.10	2.00	2.86	2.51	0.70	2.35	1.59	0.30	0.05	0.20	1.57	15.85
Fort Meade	0.40	0.74	2.41	3.45	2.01	1.63	1.14	0.70	0.00	3.48	1.48	1.68	19.12
Fort Sully	0.90	0.60	2.80	3.50	4.00	2.80	4.80	0.55	T.	3.00	0.55	0.55	24.05
Frankfort	1.05	1.25	2.05	3.15	2.95	2.16	2.50	1.13	0.18	0.53	0.35	1.20	18.50
Gale			2.80	1.94	1.70	2.32	3.20						
Gary	0.70	1.40	1.70	4.03	2.78	[2.00]	3.71	1.65	0.76	0.48	0.50	1.00	[20.71]
Greenwood							1.87	0.56	0.82	0.16	0.64	0.64	
Highmore	0.15	0.15		3.85	1.90	2.55	2.64		T.				
Hitchcock				3.42	3.26	1.20	2.21	0.75	0.25	0.58	0.15		
Hotch City	0.95	0.75	1.52	1.91	1.72	2.47	2.50	0.68	0.09	0.85	0.08	0.50	14.02
Howard	0.30	1.20	1.63	4.21	3.84	[1.50]	2.07	0.82	1.21	0.22	[0.40]	0.90	[18.30]
*Huron	0.85	0.59	1.58	4.68	2.49	0.67	3.34	0.59	0.23	0.19	0.72	1.01	16.94
Kimball	0.37	1.18	1.71	3.13	3.56	2.65	2.71	0.57	0.16	0.31	0.43	1.00	17.78
Mellette	0.55	0.88	2.22	3.89	2.16	0.90	4.62	2.56	0.40	0.54	0.20	[0.50]	[19.42]
Midland	0.20	0.45	1.05	2.75	2.16	2.33	1.99	0.18	0.06				
Millbank	1.26	1.36	2.16					2.05	0.00	0.78	0.83	0.95	
Northville								0.87	0.01	0.91	0.27	0.53	
Oelrichs	T.	1.75	2.48	3.30	T.	1.80	2.78	0.75	T.	0.71	0.95	2.30	16.82
Onida			0.80	1.32	3.31		2.81	0.92	0.00				
Parker	0.18	0.60	2.80	4.72	3.48	[1.00]	[4.00]	2.23	1.05	0.25	0.25	1.45	[22.01]
Parkston	0.48	1.08	2.60	4.34	2.84	1.44	2.32	0.84	0.47	0.19	0.32	0.46	17.38
Piedmont	0.20	0.73	0.71	0.35	0.06	1.31	1.10	0.61	T.		0.25	0.40	
*Pierre	0.77	0.46	1.46	2.19	1.94	1.73	2.29	0.34	0.78	1.57	0.40	0.63	14.56
Plankinton	0.34	0.58	1.77	3.93	4.38	2.60	1.57	1.12					

[1] Cotton region observer. [2] Special river observer. [3] J. W. Gardner.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
South Dakota—Continued.													
*Rapid City	0.30	0.45	0.92	1.05	1.73	1.21	1.51	0.63	0.06	1.01	0.35	0.39	9.61
Rosebud	1.00	0.75	[1.50]	1.94	2.40	1.69	1.84	0.95	.....	0.34	1.20	1.97	.....
Salem	0.10	1.09	1.32	3.56	5.94	1.23	.....	.....	.....	.....	.....	.....	.....
Sioux Falls	0.28	1.25	2.77	4.29	5.00	0.36	2.06	2.48	0.60	[0.50]	0.45	2.29	[22.33]
Spearfish	0.49	2.15	1.45	4.21	2.91	2.13	1.43	1.97	0.22	3.50	1.09	1.30	22.85
Tyndall	0.05	0.80	[1.50]	3.38	2.83	1.69	4.61	2.05	1.02	0.20	0.88	1.44	[20.45]
Vermillion	T.	1.30	2.46	2.30	2.80	.....	.....	.....	.....	.....	0.30	0.10	.....
Watertown	0.85	1.35	1.58	1.37	2.47	1.38	2.07	2.63	[0.50]	0.20	0.65	1.00	[16.05]
Webster	1.52	2.90	5.49	3.59	2.00	2.34	2.43	3.87	0.24	1.12	0.62	1.79	27.91
Wentworth	0.13	0.48	[1.50]	3.19	2.96	2.20	1.59	0.45	[0.70]	0.22	0.19	0.79	[14.40]
Wessington	.....	.....	.....	.....	1.95	0.93	2.38	.....	.....	0.40	.....	.....	.....
Wessington Springs	0.80	1.60	3.01	3.65	2.04	2.19	2.48	1.31	0.34	0.21	0.50	1.94	20.07
Whitewood	.....	.....	.....	.....	3.49	1.42	1.02	.....	0.69	3.15	0.71	1.13	.....
Wolsey	0.77	1.00	2.52	4.19	2.17	1.71	[2.50]	0.97	0.36	0.34	0.35	1.45	[18.33]
*Yankton	0.52	1.03	2.14	4.38	1.73	3.22	3.49	2.70	0.90	0.80	0.67	1.74	23.32
Tennessee.													
Andersonville	2.57	7.06	1.30	4.00	6.75	4.60	3.05	1.15	2.11	0.98	2.20	2.55	38.32
*Arlington	.....	.....	.....	.....	10.16	.....	.....	.....	.....	1.73	3.85	.....	.....
Ashwood	0.80	6.94	3.18	7.52	8.28	5.60	4.59	5.72	7.76	2.01	2.80	3.42	58.62
Bethel Springs	0.60	8.53	1.88	4.35	0.00	3.50	5.44	0.00	4.90	T.	.....	.....	.....
*Bolivar	0.60	5.95	1.34	8.55	9.22	3.75	2.96	0.85	5.01	0.45	4.52	.....	.....
*Brownsville	.....	.....	.....	.....	6.83	1.30	0.71	0.32	.....	1.43	.....	.....	.....
Byrdstown	1.09	7.03	2.83	3.40	.....	4.49	3.36	3.22	4.82	2.38	2.77	3.24	.....
*Carthage	1.22	5.32	2.65	5.99	6.17	4.21	5.45	4.04	4.34	2.51	2.40	2.91	47.21
*Charleston	1.87	6.09	2.43	5.10	9.26	6.45	1.67	1.76	3.21	1.12	1.77	3.14	43.87
*Chattanooga	2.39	8.02	2.55	5.88	8.35	6.31	1.24	4.18	2.19	0.98	1.91	3.46	47.46
Clarksville	0.96	4.91	2.14	6.62	7.26	4.21	2.40	1.05	8.39	3.79	3.64	3.07	48.44
*Clinton	1.70	7.66	2.95	4.79	6.37	7.03	4.63	1.79	2.12	1.85	1.84	3.04	45.47
*Columbia	1.31	6.45	2.64	7.21	7.02	6.44	1.42	3.22	7.47	2.27	2.42	3.09	50.96
Covington [1]	0.91	6.16	2.37	5.80	10.83	2.58	2.56	0.34	6.95	2.72	4.41	3.07	48.70
*Covington [2]	.....	.....	.....	.....	8.83	3.17	2.40	0.41	6.56	1.88	4.34	.....	.....
Dunlap	0.91	10.91	3.63	5.10	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Dyersburg	.....	.....	.....	.....	7.63	1.84	2.17	0.07	6.64	2.74	4.36	.....	.....
Fayetteville	0.55	5.23	1.16	8.73	3.54	.....	.....	.....	.....	.....	.....	.....	.....
Florence Station	1.45	3.76	2.61	3.75	10.03	4.30	1.86	2.75	4.46	2.71	1.83	4.30	43.81
Franklin	1.50	5.07	2.58	4.99	7.63	3.06	1.10	3.30	6.73	2.62	2.51	3.46	44.55
Greeneville	2.02	7.15	2.79	3.65	6.60	6.39	4.38	4.85	3.37	3.49	1.66	2.33	48.68
Harriman	.....	.....	3.01	6.16	7.45	4.91	1.19	2.54	3.32	0.78	2.80	.....	.....
Harrogate	.....	.....	2.48	2.83	3.73	3.37	4.34	1.63	.....	.....	.....	.....	.....
Hohenwald	1.07	6.53	3.03	8.66	9.55	1.72	2.80	0.99	5.96	2.66	.....	3.99	.....
Jacksboro	2.47	6.71	2.34	3.81	6.27	5.83	6.93	3.78	3.94	0.86	1.73	2.82	47.49
Jackson	.....	4.49	0.75	7.35	8.10	2.50	2.17	T.	4.30	1.50	3.75	2.25	.....
Johnson City	.....	.....	.....	2.71	5.81	3.44	3.05	5.68	2.71	5.85	.....	.....	.....
*Johnsonville	1.18	9.40	3.08	8.10	6.84	7.41	0.26	0.87	3.95	2.90	2.60	2.44	49.03
*Kingston	1.86	7.78	3.49	5.22	7.07	3.87	2.79	2.16	3.55	0.99	1.88	2.59	43.25
*Knoxville	1.56	7.96	2.49	5.46	6.71	4.92	5.25	2.08	1.45	1.73	1.32	2.49	43.42
Lookout Mountain	2.16	8.94	2.15	4.52	7.51	4.39	4.46	5.86	.....	.....	.....	.....	.....
*Loudon	1.81	7.53	3.11	4.94	6.05	4.85	5.75	1.55	1.55	1.67	1.35	3.70	43.86
Lynnville	0.65	8.27	2.78	3.75	14.69	2.96	2.41	1.82	7.48	1.54	2.32	4.17	52.84
*Memphis	1.42	6.33	1.95	5.48	13.34	2.39	0.73	0.62	5.46	0.64	3.48	2.61	44.45
*Milan	.....	.....	.....	.....	10.27	4.52	1.59	T.	6.80	3.06	4.59	.....	.....
*Nashville	1.27	4.88	3.37	4.11	7.31	4.74	2.12	1.92	6.43	3.68	2.97	3.50	46.30
Newport	1.88	7.90	2.70	3.83	6.91	6.12	2.54	4.85	2.57	3.67	2.81	2.41	.....
Nunnelly	1.88	4.75	2.38	5.56	9.17	1.71	1.77	2.38	7.59	2.72	3.08	4.02	47.01
Palmetto	.....	.....	2.96	7.18	7.10	5.64	1.78	2.48	6.58	.....	1.95	2.24	.....
Parksville	1.65	5.85	1.65	3.62	8.03	4.83	2.16	3.48	3.60	0.71	1.25	3.97	40.80
Pikeville	.....	.....	.....	.....	6.13	4.80	5.44	.....	1.75	0.70	1.90	.....	.....
Riddleton	1.49	5.94	4.55	6.00	5.21	6.66	6.88	11.17	4.88	2.24	2.45	4.43	61.90
*Rockwood	1.90	7.19	3.73	6.38	7.69	5.28	3.78	1.04	4.72	0.62	1.65	2.71	48.59
*Rogersville	1.82	6.71	2.87	4.06	7.10	3.96	4.67	4.86	2.10	4.36	2.01	2.03	46.55
Rugby	2.28	6.48	2.15	4.27	6.86	5.34	7.04	3.24	2.62	1.44	1.85	2.30	45.87
Savannah	0.75	6.22	2.89	7.18	7.28	1.48	4.10	1.04	4.86	1.07	3.13	4.04	44.04
Springdale	3.20	8.17	2.41	5.00	6.66	4.07	4.56	4.00	2.30	2.35	.....	3.04	.....
*Strawberry Plains	.....	7.65	2.62	4.25	6.00	5.90	2.30	2.90	2.45	2.70	1.97	2.56	.....
Tazewell	2.81	7.31	2.40	3.97	6.54	4.33	3.06	3.94	.....	.....	.....	.....	.....
Trenton	.....	.....	.....	.....	.....	3.06	2.42	T.	6.98	2.32	4.90	4.50	.....
Tullahoma	.....	.....	.....	.....	4.00	3.25	0.75	2.25	2.62	2.75	.....	.....	.....
Waynesboro	0.20	6.12	2.49	7.75	7.90	2.80	6.00	1.30	5.85	0.90	3.50	2.37	47.78
Weir	0.69	4.30	2.89	3.87	8.59	2.01	5.45	8.00	5.22	1.83	2.54	3.85	49.24
Texas.													
*Abilene	0.51	0.33	0.66	0.28	5.78	0.98	0.52	3.36	2.30	0.03	1.00	0.52	16.27
Albany	0.40	0.50	1.04	2.23	5.71	1.08	0.68	1.39	3.88	T.	0.77	1.30	18.98
Alice	3.31	1.40	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Amarillo	0.09	2.03	T.	0.16	2.19	2.03	2.05	2.67	5.27	0.03	0.28	0.43	17.23
Arlington	0.81	0.67	3.92	1.68	7.01	2.59	1.27	2.83	0.88	0.56	2.90	0.31	25.43
*Arthur City	1.03	3.99	2.46	4.04	2.11	3.83	0.50	0.05	1.95	0.14	5.06	1.11	26.27
Aurora	0.20	0.53	2.05	1.48	3.73	1.33	0.20	0.98	1.89	0.50	1.88	0.23	15.00
Austin	0.45	T.	2.90	0.20	.....	1.85	0.25	2.10	2.02	0.00	4.90	0.02	.....
*Belton	.....	.....	.....	.....	2.68	1.67	0.37	3.05	6.81	T.	3.67	.....	.....
Boerne	0.21	0.98	2.10	1.89	2.79	1.34	0.91	1.05	0.23	0.60	3.84	1.02	16.96
Brady	0.39	0.39	0.65	0.65	1.85	0.74	0.67	0.61	T.	0.29	1.55	1.04	8.83
Brazoria	1.46	2.50	1.62	3.47	2.90	4.11	1.02	4.74	1.08	1.02	3.84	1.04	28.90
*Brenham	0.50	1.00	2.06	1.74	3.30	5.05	0.11	1.61	0.35	0.19	10.47	1.97	28.30
Brownwood	1.00	0.01	0.85	0.93	2.81	0.60	0.50	2.77	0.17	0.17	1.62	0.90	11.22
Burnet	0.10	0.78	1.35	1.75	3.30	1.90	0.50	0.70	8.65	0.20	3.01	0.95	21.19
Camp Eagle Pass	1.11	0.32	0.31	0.11	1.42	0.00	T.	1.90	1.66	0.00	0.19	0.11	7.13

[1] J. I. Hall. [2] Cotton-region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Texas—Continued.													
Childress	0.30	0.15	1.60	0.00	2.50	1.25	3.45	5.54	3.54	0.00	T.	0.75	19.08
Coldwater	0.20	1.52	0.00	0.04	0.94	1.69	2.14	5.62	2.17	[a] 0.27	1.38	0.34	16.31
College Station	0.80	1.24	2.14	1.41	9.10	3.50	0.45	1.85	1.75	0.17	5.59	1.73	29.73
Colorado	.....	0.09	0.14	0.00	.....	0.00	.....	.....	0.32	.....	.....	.....	.....
*Columbia	0.35	1.10	0.75	3.65	1.20	4.48	0.66	3.30	0.48	0.58	2.83	0.03	19.41
*Corpus Christi	5.91	6.27	0.12	0.42	3.22	1.27	0.49	0.06	1.14	0.25	1.28	0.07	20.50
Corsicana [1]	1.03	1.82	3.94	3.46	6.06	5.06	0.51	0.65	2.60	[0.00]	3.72	0.20	[29.05]
*Corsicana [2]	1.09	1.34	3.59	[3.00]	6.94	3.78	0.94	0.80	2.12	0.00	4.29	0.27	[28.16]
*Cuero	0.91	1.50	0.64	2.46	3.30	5.12	1.56	1.41	0.37	1.18	4.51	0.87	23.83
*Dallas	0.38	1.82	2.88	1.67	7.85	4.71	0.28	2.63	1.77	0.82	3.30	0.82	28.93
Devine	T.	1.37	1.57	2.65	3.46	0.52	0.60	1.25	0.10	0.11	3.50	0.45	15.58
Durham	0.05	0.05	0.99	0.57	2.50	0.66	1.78	1.19	1.61	.....	.....	.....	.....
Duval	T.	T.	3.90	0.75	4.35	0.55	0.20	T.	1.20	0.00	4.20	0.65	15.80
*Eagle Pass	0.97	0.17	0.24	0.10	1.49	0.00	0.20	1.35	1.41	0.00	0.06	0.16	6.15
Eastland	0.10	0.20	0.60	0.55	3.53	0.70	0.95	4.45	2.00	T.	2.13	1.00	16.21
*El Paso	0.02	0.52	0.31	0.00	2.28	T.	2.08	3.15	2.08	T.	0.02	0.42	10.88
Fay	.....	T.	1.10	0.00	1.28	0.45	0.28	3.23	.....	.....	.....	.....	.....
Flower Bluff	3.24	1.68	0.08	0.23	4.12	3.12	0.22	0.00	2.64	0.20	1.29	0.13	16.95
Forestburg	0.52	0.52	1.83	1.86	2.63	3.74	0.93	3.63	2.15	0.31	1.49	0.31	19.92
Fort Brown	3.87	2.13	0.16	T.	0.33	2.12	0.72	0.18	1.02	0.59	2.53	0.71	14.36
Fort Clark	0.02	0.21	0.60	1.03	2.08	0.20	0.32	0.36	0.12	0.27	0.28	0.96	6.45
Fort Hancock	T.	0.10	0.25	0.00	5.09	0.00	2.08	4.83	2.30	0.00	0.00	0.21	14.86
Fort McIntosh	1.00	0.00	0.00	0.00	3.15	1.20	0.70	2.00	0.40	0.00	0.20	0.00	8.65
Fort Ringgold	2.49	2.40	0.00	0.00	4.20	2.25	1.15	2.10	2.40	0.20	0.22	0.10	17.51
Fredericksburg	0.24	0.46	1.45	1.95	3.47	1.54	0.28	1.52	0.10	0.12	3.99	1.10	16.22
Gainesville	0.81	1.06	1.63	3.32	5.30	2.30	0.42	2.72	1.72	0.10	2.09	0.95	22.48
*Galveston	0.54	1.99	0.88	5.70	2.98	7.45	2.96	5.02	1.72	0.55	3.92	1.72	35.43
Graham	0.64	0.32	1.33	0.45	6.05	4.30	0.35	1.68	2.94	0.58	1.48	1.70	21.82
Grape Vine	0.81	0.60	2.55	1.61	7.04	1.90	0.30	1.48	1.68	1.11	2.74	0.75	22.57
Hale City	.....	.....	.....	.....	.....	.....	.....	0.39	3.12	T.	.....	.....	.....
Hallettsville	0.10	1.48	0.54	5.43	1.57	3.33	0.45	1.15	0.05	0.29	4.56	1.66	20.61
Hartley	0.20	1.54	0.00	0.05	1.37	0.34	2.20	2.86	2.35	T.	0.00	0.00	10.91
Haskell	0.05	1.85	1.09	2.30	2.46	0.79	0.11	2.00	1.83	0.00	.....	0.61	.....
*Hearne	0.10	.....	.....	.....	2.80	1.45	0.60	1.00	1.30	T.	5.33	.....	.....
*Hidalgo	5.41	0.63	T.	0.00	4.33	.....	3.09	.....	.....	.....	.....	.....	.....
Highland	1.00	0.72	1.05	0.72	2.21	1.50	0.23	3.45	0.45	0.11	2.39	0.73	14.56
*Houston	0.65	2.12	3.52	3.21	3.00	4.75	1.62	3.07	0.34	0.73	4.96	1.06	29.03
*Huntsville	1.20	0.75	1.20	2.15	4.74	9.93	1.00	4.40	0.23	0.30	5.60	1.15	32.65
Kent	0.15	0.05	0.86	.....	0.86	0.24	2.64	2.76	1.35	0.00	0.96	T.	.....
*Laredo	2.93	0.46	0.00	T.	1.69	1.02	0.94	6.41	0.62	0.05	0.74	0.19	14.15
Llano	0.01	0.01	1.00	1.50	2.34	0.16	T.	1.05	0.03	3.09	1.22	0.80	11.11
*Longview	.....	.....	.....	.....	6.67	2.64	0.90	3.81	4.20	1.46	6.42	2.62	.....
*Lulling	0.00	0.15	0.00	1.24	0.26	0.17	0.08	0.62	0.01	0.00	3.06	.....	.....
McGregor	1.00	0.30	2.98	2.49	4.36	2.88	T.	1.71	0.54	0.00	3.86	0.75	20.87
Marshall	.....	.....	.....	.....	5.40	9.00	T.	1.85	2.20	0.55	9.55	1.65	.....
Menardville	0.21	0.00	0.52	0.53	3.08	1.27	0.00	1.07	0.14	0.00	0.62	1.07	8.51
Mesquite	0.93	1.31	2.77	1.56	7.93	5.41	0.69	1.20	1.40	0.47	3.70	.....	.....
Mountain Spring	1.00	2.22	1.83	2.39	4.56	1.32	0.70	0.78	1.35	0.92	2.37	0.80	20.24
New Braunfels	0.11	0.69	2.27	3.28	2.87	0.55	0.39	.....	0.07	0.00	3.35	0.58	.....
Ochiltree	0.20	1.70	0.00	0.20	T.	2.00	2.35	.....	.....	.....	.....	.....	.....
*Orange	1.65	.....	.....	0.79	6.25	9.74	3.30	7.74	0.74	1.02	6.06	3.02	.....
*Palestine	1.14	1.25	2.67	3.37	4.96	5.35	0.09	3.55	1.32	0.17	4.94	1.77	30.58
Panter	.....	0.35	1.60	1.20	3.31	1.11	2.32	3.17	0.77	0.30	2.73	.....	.....
*Paris	2.50	1.44	3.14	4.24	4.39	5.47	1.67	3.02	1.11	0.39	4.23	1.60	33.70
Quanah	.....	0.00	1.75	0.00	5.25	3.00	1.50	7.55	4.55	.....	.....	.....	.....
*Rio Grande City	2.34	1.93	0.00	0.00	4.21	2.64	0.98	2.06	2.39	0.27	0.39	0.16	17.37
Roby	0.30	0.22	1.13	.....	1.86	0.00	0.65	1.74	3.57	T.	[d] 0.55	[d] 0.62	.....
Round Rock	0.20	0.39	3.07	1.83	4.74	2.36	0.05	1.23	2.07	.....	1.31	0.91	.....
*San Antonio	0.11	1.11	2.14	2.18	3.36	1.90	0.96	0.92	0.10	0.08	4.62	0.76	18.24
San Antonio [3]	0.11	0.93	1.74	2.24	3.34	1.82	0.85	0.95	0.16	0.06	4.10	0.77	17.07
*San Marcos	.....	.....	.....	2.32	1.90	2.90	1.27	0.80	0.22	0.00	4.73	0.46	.....
*Sherman	.....	.....	.....	.....	1.53	4.95	0.91	2.49	1.32	0.05	[c] 2.70	.....	.....
Sierra Blanca	.....	0.00	0.50	0.00	2.00	0.00	1.50	5.95	1.65	0.00	.....	0.90	.....
Silver Falls	0.76	1.29	0.93	0.03	1.60	1.39	1.01	3.63	3.80	0.05	0.10	1.00	15.50
Stella	.....	.....	.....	4.43	4.95	4.15	2.91	6.00	1.00	1.25	4.48	0.28	.....
Sulphur Springs	0.87	2.48	4.09	3.87	4.48	1.95	T.	0.75	0.54	1.13	6.22	1.42	27.80
Temple	0.90	0.58	2.53	2.45	2.54	1.79	2.85	3.07	1.00	0.00	4.00	0.37	22.08
Twohig	2.10	0.80	0.00	1.80	.....	.....	0.00	0.00	2.25	.....	.....	.....	.....
*Tyler	.....	.....	.....	.....	4.07	4.58	2.76	0.48	2.00	1.03	4.75	.....	.....
Victoria	0.78	2.52	0.25	2.24	5.97	0.11	.....	1.08	0.03	0.00	3.20	1.20	.....
*Waco	1.80	T.	3.85	2.40	3.79	1.58	0.30	4.05	0.75	0.00	3.36	0.25	22.13
*Weatherford	.....	.....	.....	.....	.....	2.27	0.78	1.21	1.37	0.17	3.02	0.27	.....
Wichita Falls	[b] 0.25	.....	.....	0.80	2.80	.....	.....	.....	.....	[e] T.	0.20	1.83	.....
Utah.													
Beaver	0.45	1.38	1.45	2.04	0.50	0.00	.....	.....	.....	.....	.....	.....	.....
Castle Gate	1.43	1.15	2.75	0.71	0.44	0.17	0.82	0.56	0.28	0.06	0.37	1.16	9.90
Cisco	0.50	0.48	0.81	0.40	0.76	0.00	T.	0.67	1.02	T.	1.11	1.40	7.15
Deseret	0.54	0.61	1.85	1.40	0.67	0.00	0.21	0.91	0.46	0.05	0.14	0.82	7.66
Fillmore	0.81	1.51	2.89	2.09	1.53	0.00	0.48	1.71	1.21	0.46	1.11	1.79	15.59
Fort Duchesne	0.42	0.44	3.10	2.01	0.92	0.00	0.47	0.57	0.36	0.16	0.24	0.49	9.28
Green River	.....	0.00	0.04	0.02	0.45	0.00	0.04	0.03	0.57	0.00	0.20	.....	.....
Grouse Creek	1.29	1.73	2.02	1.90	0.39	0.08	0.13	0.22	0.75	0.25	1.60	1.10	11.46
Heber	1.00	2.95	3.35	2.15	0.76	0.02	0.27	0.68	0.28	0.73	1.60	3.95	17.84
Kooshareem	.....	.....	.....	.....	.....	0.00	0.90	2.03	1.22	T.	0.49	0.68	.....
Lake Park	1.55	1.70	3.03	1.53	1.03	0.00	0.43	0.37	1.28	1.43	1.38	2.85	16.58
Levan	1.28	0.98	3.42	2.69	1.12	0.90	0.40	1.68	1.17	0.20	0.96	1.85	15.75
Lea	0.40	1.12	0.52	0.00	T.	0.00	1.42	2.25	0.83	0.00	1.08	0.30	7.92

[1] W. H. Hamilton. [2] Cotton-region observer. [3] G. A. Duerler, jr.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Utah—Continued.													
Logan	0.65	2.45	2.64	2.16	1.73	0.14	0.01	0.11	1.67	0.59	0.92	1.44	14.51
Losee	0.90	0.30	2.65	T.	0.40	0.00	1.20	4.50	0.80	T.	0.40	1.30	12.45
Moab	0.72	0.34	0.53	0.34	0.76	T.	0.89	1.11	1.28	0.05	1.46	0.77	8.25
Mt. Carmel	2.01	1.75	4.07	0.36	0.20	0.00	1.90	.....	0.00	0.30	0.25	.....	.....
Ogden[1]	0.45	.....	4.40	1.93	1.09	0.05	0.08	0.78	1.36	0.74	1.26	2.11	.....
Parowan	0.84	1.03	1.28	1.42	1.34	0.00	2.08	1.65	1.11	T.	1.38	0.72	12.80
Provo City	0.60	1.25	1.35	3.09	1.60	.....	0.36	0.56	0.59	0.36	0.63	.....	.....
Randolph	.....	.....	1.00	0.75	0.46	T.	0.71	0.09	1.25	0.00	0.00	.....	.....
Richfield	1.05	1.10	0.99	0.65	.....	.....	0.62	2.12	.....	0.04	0.02	1.32	.....
St. George	0.77	1.20	1.66	0.15	0.11	T.	0.81	0.61	T.	0.09	0.05	1.28	6.73
*Salt Lake City	0.82	1.64	2.68	2.72	1.68	0.04	1.19	0.71	1.80	1.02	1.18	2.37	17.35
Scofield	1.80	1.60	2.80	0.20	0.00	0.00	4.50	2.12	1.11	.....	0.22	1.67	16.08
Singletree	.....	0.90	1.95	0.19	0.26	0.03	1.04	3.66	1.51	T.	0.75	0.90	.....
Snowville	0.90	1.80	2.49	0.73	1.28	0.08	0.22	0.11	0.74	0.47	1.38	0.77	10.96
Soldiers Summit	.....	.....	.....	.....	0.53	0.00	0.23	0.22	0.27	0.53	0.71	1.19	.....
Stockton	0.69	0.98	1.87	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Thistle	1.50	.....	.....	0.06	.....	.....	.....	2.40	0.24	0.12	1.06	1.20	.....
Utah railroad stations.													
Blue Creek	1.25	2.10	2.80	0.40	0.70	0.00	0.10	0.00	0.40	0.20	0.15	0.10	8.20
Corinne	0.83	1.50	3.38	1.01	1.20	0.10	0.00	0.00	1.20	0.30	1.24	1.85	12.61
Kelton	1.20	0.41	0.75	0.20	0.38	0.02	0.00	0.00	0.40	0.00	0.56	0.30	4.22
Ogden	0.73	2.72	3.10	1.40	0.95	0.00	T.	T.	1.05	0.95	1.45	3.28	15.63
Promontory	1.30	1.70	2.10	0.90	0.75	0.00	0.00	0.05	1.95	0.50	1.40	1.05	11.70
Terrace	1.20	1.20	0.55	0.24	0.00	0.00	[0.00]	0.00	0.15	0.00	0.70	0.47	[4.5]1
Vermont.													
Brattleboro	2.33	5.67	2.27	2.84	4.96	2.18	1.64	6.39	2.06	3.42	1.89	2.89	38.54
Burlington	0.70	1.24	0.52	1.70	3.17	1.73	3.74	8.31	2.45	1.72	1.41	2.35	29.04
Chelsea	1.64	3.59	1.63	2.33	3.97	2.75	.....	.....	.....	.....	.....	.....	.....
Cornwall	1.63	2.84	1.12	1.25	1.99	1.83	3.59	7.06	1.57	0.93	1.00	3.21	28.02
Enosburg Falls	1.40	3.65	1.20	2.53	2.91	2.61	4.77	6.21	3.37	2.21	1.76	4.62	37.24
Hartland	2.48	5.64	1.94	2.25	4.35	4.09	3.64	5.65	1.48	3.29	2.21	3.70	40.72
Hyde Park	1.94	2.70	0.96	2.65	3.18	2.79	3.48	5.48	2.41	.....	.....	.....	.....
Irasburg	1.55	.....	.....	1.70	2.56	3.07	4.06	2.59	2.08	1.67	2.17	3.97	.....
Jacksonville	2.96	7.41	3.03	4.62	7.58	3.94	2.17	9.11	2.93	5.07	2.01	4.45	55.28
Northfield	1.78	2.47	1.21	1.63	3.97	2.07	3.74	6.14	1.91	1.54	1.98	2.92	31.36
Norwich	1.34	4.50	1.56	1.49	3.46	3.45	3.51	4.20	1.66	3.25	1.55	2.99	32.96
Saxtons River	2.42	4.84	.....	[b]1.41	4.97	[a]2.58	.....	.....	.....	.....	.....	.....	.....
South Royalton	1.16	4.08	1.70	4.00	3.20	2.20	.....	6.30	.....	.....	.....	.....	.....
Strafford	1.90	5.10	1.90	2.12	2.58	2.05	3.34	5.78	1.58	2.65	1.75	5.30	36.05
Vernon	3.77	5.51	2.94	4.29	5.19	3.80	1.64	7.86	2.73	3.54	1.62	4.16	47.05
Wells	1.56	5.83	1.96	1.82	4.12	1.63	4.77	9.18	2.11	2.54	1.38	3.66	40.56
Woodstock	1.66	5.15	1.73	2.19	5.62	2.22	3.05	5.39	1.36	3.02	1.57	3.67	36.63
Virginia.													
*Abingdon	2.59	6.50	2.52	2.58	5.66	3.25	2.73	3.88	2.24	4.11	1.76	1.99	39.81
Alexandria	.....	.....	.....	2.00	5.48	1.35	2.23	1.90	3.00	3.34	4.30	2.54	.....
Ashland	2.88	3.62	1.07	2.42	5.70	5.98	9.12	3.00	6.56	6.07	2.71	2.50	51.63
Avon	3.93	5.15	1.84	4.81	7.71	3.74	.....	.....	8.12	12.61	2.34	0.72	.....
Bedford City	1.35	5.30	1.10	3.08	5.26	3.94	2.73	7.12	6.34	7.74	1.50	1.81	47.27
Big Stone Gap	3.15	7.53	2.90	4.83	6.96	4.63	6.15	3.32	2.38	5.37	3.15	2.37	52.74
Birdsnest	4.45	6.20	3.70	2.10	4.40	5.95	3.40	4.65	7.75	4.75	7.13	4.80	59.28
Blacksburg	1.78	3.69	0.86	1.99	6.79	3.68	1.14	3.29	2.64	[2.50]	0.73	1.19	[30.28]
*Buchanan	1.79	4.07	1.12	1.85	6.51	3.02	1.04	7.97	3.57	6.58	1.51	0.82	39.85
Cape Charles	[4.60]	5.30	1.91	2.42	4.17	6.78	3.91	5.25	5.46	3.22	8.11	3.96	[55.09]
*Cape Henry	1.65	3.47	3.44	1.19	6.07	7.62	5.69	3.77	4.58	2.10	7.43	3.76	50.77
Charlottesville	1.57	4.06	1.57	3.54	6.62	.....	.....	.....	0.41	6.28	2.52	1.57	.....
*Christiansburg	0.34	3.63	1.93	1.77	6.69	5.13	1.85	8.65	3.78	5.64	1.76	1.13	42.30
*Clarksville	1.93	6.18	1.75	1.24	5.81	2.24	5.32	5.05	3.40	5.42	1.70	3.16	43.23
*Columbia	.....	.....	.....	.....	4.02	2.92	7.85	7.14	.....	.....	.....	.....	.....
Dale Enterprise	1.14	4.47	1.39	2.86	4.98	3.23	3.10	5.06	5.45	6.18	2.40	0.54	40.80
*Danville	2.29	5.28	2.12	2.25	6.86	2.77	1.41	8.05	6.80	7.07	1.57	2.02	48.49
Emporia	2.65	5.54	1.75	0.95	7.11	.....	3.92	3.97	.....	.....	.....	.....	.....
Falls Church	1.82	3.54	2.18	3.24	4.79	2.26	2.54	2.46	3.86	4.29	4.82	1.63	37.43
Fredericksburg	.....	.....	.....	.....	5.87	2.22	3.72	3.54	4.70	4.41	3.92	1.88	.....
Hampton	.....	.....	2.18	0.84	5.76	5.87	7.13	5.40	3.75	2.81	6.34	3.70	.....
Hot Springs	2.03	2.99	1.40	4.46	4.23	4.89	3.49	2.91	5.09	4.78	2.08	1.40	39.81
Irwin	2.07	4.34	1.17	3.00	5.46	5.40	7.44	4.60	9.43	5.74	3.50	2.19	54.34
Lexington	1.65	4.22	1.46	2.84	5.60	2.90	2.95	7.36	5.96	4.70	1.90	1.02	42.56
*Lynchburg	1.99	5.43	1.03	3.42	5.15	3.81	4.81	8.65	8.61	8.17	1.41	2.12	54.60
Marion	3.35	6.70	2.92	4.14	7.58	4.83	1.72	1.52	4.64	4.03	1.79	1.82	45.04
*Norfolk	2.55	4.04	3.32	2.07	6.79	8.36	6.11	5.71	6.29	2.86	6.75	3.05	57.90
Nottoway	2.31	5.40	2.19	2.45	5.77	1.45	5.95	8.47	4.89	5.73	3.42	2.92	50.96
Petersburg	2.35	6.25	3.17	3.37	5.70	2.31	5.13	5.32	4.03	5.56	4.06	3.00	50.25
Richmond[2]	4.42	4.93	3.46	3.60	5.08	2.41	3.58	5.37	7.45	6.14	3.58	2.14	52.14
*Richmond[3]	2.32	4.48	2.64	2.94	4.68	2.49	3.84	5.53	6.55	5.44	3.14	1.99	46.04
*Riverton	0.62	2.74	1.49	2.45	5.04	4.15	1.13	4.45	7.25	6.15	2.91	0.70	39.08
*Salem	1.03	4.09	1.54	2.94	6.70	4.16	.....	.....	7.57	6.66	1.66	1.16	.....
Saluda	2.37	5.35	2.73	3.00	6.19	2.45	9.15	1.63	3.90	7.46	6.42	3.52	54.17
Spottsville	2.89	6.22	3.95	1.57	5.95	2.98	5.74	4.99	4.94	6.06	6.52	4.60	57.01
Stanardsville	1.88	5.29	0.87	2.94	8.68	3.47	5.00	4.98	7.12	5.93	2.54	0.59	49.38
Staunton	1.01	3.88	1.84	3.36	5.85	3.39	1.80	.....	.....	7.48	2.06	1.05	.....
Stephens City	1.15	2.87	1.06	3.58	4.69	3.99	2.56	4.03	7.03	4.11	2.25	0.62	37.94
Warsaw	2.38	4.98	0.70	3.39	4.37	1.93	6.67	2.93	4.48	6.13	3.42	2.72	44.10
*Woodstock	1.13	2.48	1.27	2.30	4.43	2.85	2.31	4.80	3.99	6.35	2.64	0.62	35.17
Wytheville	2.00	3.14	0.81	2.98	5.59	5.17	3.77	7.05	5.62	6.74	1.70	1.20	45.75

[1] W. W. Crossman. [2] W. H. Pleasants. [3] Special river observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Washington.													
Aberdeen	3.05	10.46	10.32	12.29	5.53	5.10	0.41	1.16	4.89	8.37	14.37	12.18	88.13
Anacortes	.....	.....	.....	4.60	4.16	1.56	1.56	T.	1.38	2.58	6.10	5.84	.....
Blaine	.....	.....	.....	.....	.....	.....	.....	0.12	2.81	3.36	8.11	8.09	.....
Bridgeport	.....	.....	.....	.....	.....	[b]0.20	0.03	0.00	0.47	0.19	1.51	0.30	.....
Centerville	.....	.....	.....	1.77	1.24	0.19	0.42	.....	1.41	3.93	.....	.....	.....
Chehalis	1.74	5.50	3.30	8.01	3.56	2.39	0.46	0.33	2.17	.....	9.80	5.29	.....
Clyde	.....	1.70	1.69	3.26	3.02	.....	.....	.....	.....	.....	.....	.....	.....
Colfax	1.15	3.56	2.27	3.97	3.70	0.62	T.	T.	1.31	5.27	3.96	2.66	48.72
Connell	.....	.....	.....	.....	.....	.....	.....	.....	0.59	1.15	.....	.....	.....
Davenport	.....	.....	1.26	1.63	2.70	0.31	0.65	T.	1.22	1.60	1.30	2.10	.....
Dayton	.....	.....	.....	4.06	3.32	0.36	0.28	.....	1.97	4.96	4.45	1.01	.....
*East Clallam	5.00	14.60	12.47	11.16	3.53	5.95	0.24	[c]0.19	.....	8.27	14.85	11.59	.....
East Sound	1.95	5.79	1.93	4.25	3.38	1.30	1.63	0.17	2.12	2.99	7.30	6.12	38.93
Elbe	.....	5.19	4.45	10.45	5.69	3.54	1.50	0.86	5.21	9.85	15.18	11.16	.....
Ellensburg	0.19	1.21	0.84	2.17	1.38	.....	0.47	0.00	1.11	0.71	1.65	0.33	.....
Ferry	1.58	6.55	4.80	12.31	4.92	3.01	1.32	0.22	4.27	8.97	13.65	7.76	69.36
*Fort Canby	3.69	11.66	7.79	10.89	3.66	3.30	0.13	0.81	4.61	0.46	12.91	9.49	75.40
Fort Simcoe	1.00	3.45	1.15	1.30	1.12	0.11	0.61	0.00	0.32	1.33	2.59	1.30	14.28
Fort Spokane	1.76	3.73	3.03	3.31	3.58	0.64	0.93	0.01	1.12	0.81	3.01	2.25	22.18
Fort Townsend	1.69	3.36	2.26	3.74	3.71	1.31	0.41	0.16	0.88	1.87	5.31	3.24	27.94
Hunters	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.05	.....
Lakeside	.....	1.55	1.69	2.15	1.40	0.21	0.06	T.	0.78	0.24	2.38	0.75	.....
Madrone	2.90	9.05	4.53	5.14	4.36	1.80	0.48	0.47	2.96	4.11	9.24	5.66	51.30
Moxee Valley	0.69	2.51	0.95	1.74	1.13	0.12	0.27	T.	0.48	0.55	2.00	0.56	10.91
*Neah Bay	11.33	11.83	14.83	14.02	6.73	7.99	1.67	1.06	5.69	11.44	14.83	17.46	118.88
Olga	2.04	4.49	1.54	4.18	4.06	1.73	1.12	0.21	1.69	2.60	6.12	6.49	35.87
*Olympia	2.21	8.51	5.71	10.18	3.58	2.43	0.19	0.47	2.21	5.59	12.86	7.68	61.62
Pine Hill	1.28	4.15	2.27	2.65	1.03	0.16	0.25	.....	2.57	7.03	6.03	3.84	.....
Pomeroy	.....	.....	.....	2.58	3.55	0.13	0.12	0.00	1.58	3.73	3.40	1.61	.....
*Port Angeles	4.82	5.23	2.57	3.70	1.85	1.51	0.24	0.05	0.85	3.61	7.52	4.45	36.40
*Port Crescent	4.14	7.90	5.01	5.70	2.33	1.83	0.17	0.00	1.50	3.94	9.38	6.89	48.79
Pullman	0.75	1.60	1.75	3.13	1.74	0.13	1.05	0.00	2.32	4.64	3.53	1.54	22.18
*Pysht	[a]3.04	[m]12.81	8.60	[b]8.70	[c]2.26	[a]3.03	[b]0.18	.....	.....	7.27	13.36	10.45	.....
Rosalia	0.34	1.99	1.73	3.32	3.49	0.49	0.34	T.	1.54	3.12	3.53	1.87	21.76
*Seattle	.....	.....	.....	.....	4.26	1.54	0.48	0.33	3.04	3.66	8.16	4.92	.....
Silver Creek	2.42	6.27	4.97	10.54	4.39	3.50	1.45	0.34	4.27	8.23	11.84	7.64	65.86
*Spokane	0.66	3.91	1.97	3.97	2.50	0.42	0.36	0.08	1.31	2.00	2.91	1.91	22.00
Tacoma	2.27	6.55	0.77	7.63	3.68	2.31	0.51	0.40	1.77	5.63	9.93	6.64	48.09
*Tatoosh Island	9.45	11.64	12.63	13.03	6.70	7.11	1.74	1.06	6.04	8.88	11.03	14.28	104.19
Union City	.....	.....	.....	.....	3.36	3.39	0.64	0.40	2.89	8.25	13.05	11.86	.....
Vashon	3.45	3.10	3.87	3.49	3.47	.....	.....	.....	1.85	2.52	7.15	8.44	.....
*Walla Walla	0.79	1.75	2.33	3.88	3.04	0.37	0.22	T.	2.60	4.02	2.87	1.20	23.07
Waterville	1.00	2.60	1.53	3.02	2.45	0.23	0.06	0.40	0.64	0.48	2.53	0.40	15.34
West Ferndale	.....	.....	.....	.....	.....	.....	.....	T.	2.88	3.36	8.30	7.88	.....
West Virginia.													
Beverly	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.06	.....	3.73	.....
Bluefield	1.47	4.92	2.83	4.15	7.85	6.41	3.18	6.82	4.31	7.22	1.93	1.68	52.77
*Buckhannon	2.48	4.61	1.61	6.99	4.34	2.72	5.30	2.87	2.08	3.85	2.51	2.52	41.88
Central Station	3.92	6.70	1.48	5.70	3.37	4.18	3.86	4.90	2.48	4.66	2.62	2.17	46.04
*Charleston	2.86	4.14	1.72	3.95	3.58	4.27	2.91	4.33	2.80	5.67	2.41	2.46	41.10
Davis	2.68	6.28	2.79	6.98	6.71	2.82	3.97	1.49	.....	5.78	.....	.....	.....
Elkhorn	1.54	5.40	2.15	5.03	7.10	5.23	3.81	4.04	4.23	5.60	1.68	1.61	47.42
Ella	2.09	6.26	1.37	4.60	5.21	3.53	1.65	3.71	1.53	4.62	1.86	1.79	36.13
*Fairmont	2.76	5.25	1.05	6.21	3.64	3.97	2.42	2.79	2.20	3.34	2.48	1.82	37.93
*Glenville	2.62	4.66	1.44	5.87	3.84	4.18	3.13	3.56	2.19	5.23	3.22	1.92	41.86
Grafton	2.57	4.73	1.13	7.17	4.07	4.06	3.68	1.76	1.51	2.95	2.59	1.71	37.93
*Harpers Ferry	1.37	2.20	0.62	4.08	4.57	2.28	2.84	3.36	2.17	4.95	1.89	0.32	28.65
*Hinton	1.87	5.52	1.64	4.35	5.56	7.02	2.30	3.32	4.50	5.17	1.20	1.04	43.49
Huntington	1.44	3.63	.....	5.48	.....	.....	.....	2.83	.....	6.25	.....	.....	.....
Kingwood	3.75	1.65	1.00	3.50	2.00	2.54	0.97	3.00	2.52	1.45	1.61	.....	.....
Marlinton	.....	5.49	1.72	2.91	4.47	5.80	.....	.....	.....	5.32	1.99	1.91	.....
Martinsburg	1.96	2.64	1.32	4.28	5.22	1.83	5.95	3.50	2.81	4.75	2.98	0.87	38.11
Morgantown [1]	2.97	5.05	1.02	5.46	.....	1.94	1.66	1.34	.....	.....	.....	.....	.....
*Morgantown [2]	2.74	5.28	1.04	5.91	3.38	1.96	2.30	2.93	2.20	2.89	2.38	2.14	35.15
New Cumberland	1.10	6.51	1.21	4.10	3.52	4.13	2.89	4.08	.....	.....	.....	.....	.....
New Martinsville	2.94	6.30	0.89	5.06	6.15	4.11	2.59	3.49	1.67	5.12	1.80	2.57	42.69
Nuttallburg	2.19	4.74	2.60	5.46	.....	3.01	2.76	5.64	1.85	6.50	2.19	.....	.....
*Parkersburg	4.09	5.92	2.00	4.59	4.15	3.47	2.22	4.77	2.57	5.82	2.05	2.57	44.22
Parkersburg [2]	.....	3.28	0.94	5.13	5.87	3.50	.....	3.12	2.64	4.48	2.07	2.21	.....
*Philippi	4.99	4.58	1.08	4.78	3.41	2.65	3.15	2.56	1.70	3.71	2.16	1.72	36.49
Pleasant Hill	.....	5.32	.....	7.98	6.46	2.82	4.36	4.27	2.92	4.91	3.10	3.62	45.76
*Point Pleasant	3.31	4.91	1.69	6.26	2.63	5.70	1.37	3.53	1.74	6.26	2.26	1.79	41.45
Raleigh	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.45	.....
*Rowlesburg	2.14	3.84	1.06	5.70	4.48	3.87	3.82	2.00	1.78	3.41	1.96	2.20	36.96
Sandyville	.....	.....	.....	.....	.....	.....	.....	.....	1.61	4.92	1.80	1.28	.....
Spencer	.....	5.84	1.23	4.60	2.68	3.85	3.71	2.01	1.33	.....	0.47	0.68	.....
*Weston	1.93	4.52	1.30	5.61	3.02	5.23	3.96	2.06	2.40	4.20	2.70	2.25	39.18
Wheeling [4]	2.09	5.89	1.44	5.69	4.36	4.67	2.36	4.51	1.05	5.13	1.70	3.33	42.22
*Wheeling [2]	2.40	5.62	1.12	4.40	4.69	3.93	0.83	4.10	0.95	4.16	1.70	3.08	36.98
*White Sulphur Springs	1.50	2.20	2.20	3.80	.....	2.50	1.90	2.00	.....	.....	.....	.....	.....
Wisconsin.													
Amherst	1.75	3.22	1.95	5.30	3.14	2.65	2.66	1.16	3.06	2.51	1.66	3.34	32.40
Appleton	1.19	1.41	1.38	5.09	2.05	1.85	.....	.....	.....	.....	.....	.....	.....
Ashland	.....	.....	3.11	4.53	2.76	1.99	3.42	4.87	1.49	5.22	.....	.....	.....
Baraboo	1.56	2.78	3.21	5.45	4.06	2.56	7.84	1.25	1.82	2.32	1.28	2.78	36.91
Barron	1.23	2.91	1.75	4.91	3.85	1.25	3.28	3.66	2.85	3.40	.....	.....	.....
Bayfield	1.23	4.10	2.51	2.76	2.22	2.68	3.72	1.32	1.45	3.20	1.49	.....	.....

[1] G. F. Dorsey. [2] Special river observer. [3] T. G. Field. [4] Christian Schnepf.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), 1893—Continued.

Stations.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Wisconsin—Continued.													
Beaver Dam	1.26	1.08	2.00	4.78	2.29	2.89	6.89	1.60	3.58	1.81	1.40	1.98	31.06
Belleville				5.02	1.77	3.68	2.65	2.11	2.24	2.04	1.41	1.82	
Beloit	2.18	2.10	2.81	5.32	2.11	4.34	3.74	1.41	2.38	3.00	1.96	1.17	32.52
Black River Falls	1.38	1.34	1.57	3.36	2.19	1.78	4.48	1.28	2.62	2.42	1.92	3.77	28.13
Butternut	0.44	1.34	1.67	2.52	3.88		5.14	5.01	2.37	3.77	0.70	2.26	
Cadiz	1.26	1.56	1.44	3.65	0.49	2.26	2.29	3.41	2.35	4.32	0.84	2.73	26.60
Centralia	0.90	0.91	1.13	2.61	1.61	1.89	3.10	1.25	2.46	1.86	0.80	3.48	22.00
*Chippewa Falls	0.71	2.03	1.96	1.98	3.34	1.99	1.95	1.04	1.20	2.31	1.23	2.11	21.85
City Point										0.26	1.25	3.19	
Columbus	2.65	2.35	2.40	6.05	3.35	3.07	4.98	2.60	2.75		1.80	4.15	
Crandon	1.74	2.25			2.00	0.92	4.85	2.36	1.70	2.56		2.99	
Delavan	1.26	0.66	2.31	4.79	1.66	5.03	3.49	1.43	2.60	2.68	1.17	0.84	27.92
Depere	2.58	2.15	2.34	3.62	2.44	2.73	3.50	1.30	3.59				
Eau Claire	1.31	2.70	1.90	5.90	4.87	0.66	2.73	1.77	2.21	3.26	1.30	5.10	33.71
Estella								5.36	[1]0.86	4.40	1.40	3.05	
Florence	1.07	2.48	3.24	3.28	3.88	1.57	4.29	1.94	1.62	4.05	1.54	3.04	32.00
Fond du Lac	1.53	1.27	1.80	3.40	1.20	2.10	7.94	2.04	2.48	1.65	1.08	2.64	29.73
Grantsburg	1.40	2.35	0.90	3.35	2.45	2.20	1.21	2.03	1.40	2.60	0.90	2.20	22.99
*Green Bay	1.78	1.82	2.63	3.80	3.54	2.48	4.12	1.52	3.51	1.37	2.27	4.20	32.99
Hammond	1.70		1.50	5.35	2.11	2.46	1.66	1.81					
Hartford												4.61	
Harvey	1.39	1.57	3.26	5.95	2.16	3.65	2.84	1.70	1.96	2.45	0.80	2.58	29.71
Hayward			2.37	2.05	2.50	1.25	6.52	4.12	2.24	3.20	0.65	1.73	
Hillsboro	1.70	1.75	2.99	5.08	3.22	2.16	4.76	3.12	1.21	2.06	1.10	2.51	31.66
Hudson	1.80	3.10		5.55									
Janesville	1.63	1.41	3.80	4.00	2.20	2.50	2.60	0.80	2.08	1.53	0.86	1.40	24.81
Juneau	1.65	1.14	2.41	4.43	1.81	3.98	6.66	1.84	3.12	2.03		3.13	
Koepenick	2.10	2.10	1.50	3.70	3.15	1.50	3.70	2.40	1.90	2.50	2.25	2.95	29.65
*La Crosse	1.10	1.74	1.80	3.80	3.14	2.31	3.19	1.30	1.26	1.60	1.37	2.03	24.64
Lancaster	1.86	1.95	1.99	5.78	2.82	2.39	3.81	0.90	2.11	2.60	1.20	2.33	29.74
Lincoln	0.94	1.49	1.40		0.90	2.20	5.30	1.13	2.75	1.48	1.29	3.18	
Madison	1.06	1.04	2.28	4.53	2.27	6.69	4.64	1.42	2.67	1.85	1.30	1.68	31.43
Manitowoc	1.72	1.44	2.68	4.31	1.66	1.37	5.75	2.68	3.85	1.37	1.68	3.04	30.95
Meadow Valley	0.87	1.08	1.14	2.23	2.50	1.37	4.11	3.23				[2]2.57	
*Medford [1]	1.40	2.65	2.25	3.25	3.80	1.70	2.65	1.50	1.77	3.50	1.60	4.00	30.07
Medford [3]	0.76	2.25	1.65	3.45	3.48	1.98	2.80	1.57	2.14	3.00	0.90	2.65	26.61
Menomonie	1.43	3.53	2.81	6.17	2.55	1.54	2.81	2.33	2.59	2.93	0.77	4.01	33.47
*Milwaukee	1.80	1.51	3.29	5.69	1.79	5.46	3.67	1.01	3.24	1.62	1.20	2.59	32.87
Mineral Point	1.10	0.85	1.16	5.18	3.49					2.26			
Nejllsville	1.11	2.37	2.65	4.55	2.31	2.96	4.42	3.85	3.42	2.16	1.59	4.32	34.81
New Holstein	1.97	0.64	3.53	4.70	1.32	1.74	6.20	1.40	2.68		2.00	4.58	
Oconomowoc	1.45	0.93	1.77	5.85	1.72	4.46	3.53	1.28	2.94	2.45	1.24	1.50	29.12
Oconto	1.65	2.34	2.11	3.54	1.33	0.89	2.07	1.41	2.22	1.73	1.34	2.80	23.43
Osceola Mills	1.10	2.45	2.91	3.02	2.58	2.08	3.17	2.18	2.04	3.42	0.79	1.97	28.31
Oshkosh	1.87	1.27	1.95	3.38	2.70	1.65	7.43		3.19	1.74		1.53	
Pepin	1.05	2.60	2.26	5.88		1.58	2.14	1.65	1.22	1.97	1.18	3.44	
*Portage	1.41	2.09	2.64	5.98	3.05	2.71	6.35	1.23	2.74	2.48	2.14	2.53	35.40
Prairie du Chien	1.81	1.00	1.97	3.07	3.86	2.45	5.69	2.61	1.40	3.00	1.18	1.41	29.45
Raymond	2.21	1.58	2.82	6.67	3.10	3.93	3.08	1.21	3.73	2.24	2.20	2.45	35.22
Reedsburg	0.70	0.82	1.45	5.77	2.57	1.39	7.35	1.43	1.04	1.37	1.36	2.03	27.28
Sharon	1.71	1.94	2.39	5.99	1.69	4.22	3.02	1.20	2.66	3.90	2.35	1.82	32.89
Shawano	0.84	1.87	2.52	2.80	2.06	1.04	2.40	0.81	1.60	3.15	1.05	2.67	22.81
Shell Lake	0.58	1.74	1.84	4.01	4.13	2.39	3.04						
Sparta	1.29	1.48	3.40	5.13	2.92	1.09	3.75	6.00	1.26	3.02	0.69	1.61	31.64
Stevens Point		0.87	1.70	3.94	2.33	1.64	2.93	1.16	3.81	2.59	1.31	2.06	
Valley Junction	1.38	1.27	2.04	4.48	2.32	0.97	4.32	3.89	1.49	2.25	1.38	3.00	29.79
Viroqua	1.00	1.97	3.09	4.78	3.43	1.26	4.31	2.59	1.09	2.48	0.87	2.19	29.06
Watertown	1.52	1.68	2.58	4.38	1.90	3.06	3.07	1.55	2.83	1.67	1.03	3.21	28.48
Waukesha	1.42	1.21	2.95	5.64	2.11	4.32	3.05	1.32	2.87	2.41	1.47	2.61	31.38
Westfield	1.66	2.95	2.21	4.27	1.98	1.90	7.94	1.41	1.95	1.56	1.49	3.20	32.54
Weston	1.84	3.58	2.21	5.41	2.48	2.84	1.78	1.99	3.37	2.81	1.35	3.90	33.56
Whitehall	0.34	1.04	0.90		4.00	0.55	2.51		1.08	2.24	1.20	1.05	
Wyoming.													
Big Horn Ranch	0.20	0.25	0.58	0.79	0.49	1.51				1.05	1.17	0.20	
Camp Pilot Butte	T.	1.15	1.15	1.37	0.50	0.40	0.46	0.79	0.45	1.09	1.00	0.95	9.31
*Cheyenne	0.68	0.87	0.78	1.36	1.64	1.33	0.69	1.14	0.29	0.22	0.29	0.53	9.22
Evanston	1.30		0.67	0.41	0.31								
Fort McKinney	T.	0.34	0.23	0.74	2.21	0.79	0.11	1.08	0.10	0.98	0.72	1.10	8.40
Fort Washakie	0.50	0.54	0.20	2.00	1.89	0.62	0.07	1.05	0.12	0.18	1.40	0.37	8.94
Fort Yellowstone	1.82	0.79	0.96	0.97	1.01	0.38	0.99	1.00	1.44	1.34	2.51	1.91	15.12
Lander [3]	T.	1.24	0.84	3.10	2.17	1.06	0.25	1.12	0.43	0.53	0.53	0.40	11.67
*Lander	0.02	1.64	1.34	2.14	1.57	1.05	0.12	0.92	0.29	0.56	0.57	0.76	10.98
Laramie	T.	0.11	0.29	0.32	0.33	0.54	0.34	1.08	0.39	0.28	0.06	0.10	3.84
Lusk	0.17	0.32	0.48	1.16	1.28	0.89	1.25	1.07					
Saratoga	0.40	0.90	0.85	2.00	2.70	0.80	0.55	2.24	0.80	2.28	0.70	1.10	15.24
Sheridan			0.33	1.20	3.40	0.88	0.31	0.12	1.57	1.04	1.40	0.82	
Sundance			0.90	1.45	3.49	1.75	1.75	0.97	0.46	1.84	0.50	1.05	
Wheatland	0.20	0.40	0.50	1.40	0.90	0.10	0.55	0.27	T.	0.60	0.30	0.70	5.22

[1] Special rainfall observer. [2] Dr. F. R. Zeit. [3] J. S. Meyer.

PART VI.

MISCELLANEOUS METEOROLOGICAL TABLES AND REPORTS.

Hourly Records of Self-registering Instruments at Pikes Peak and Colorado Springs, Colo.—Pressure, Temperature, and Wind; Snowfall, 1892–'93 and 1893–'94; Sunshine, 1893; Height of Water in Rivers; Destructive Windstorms and Casualties by Lightning.

Fig. 2. Station of the U. S. Signal Service as it appeared in 1885.

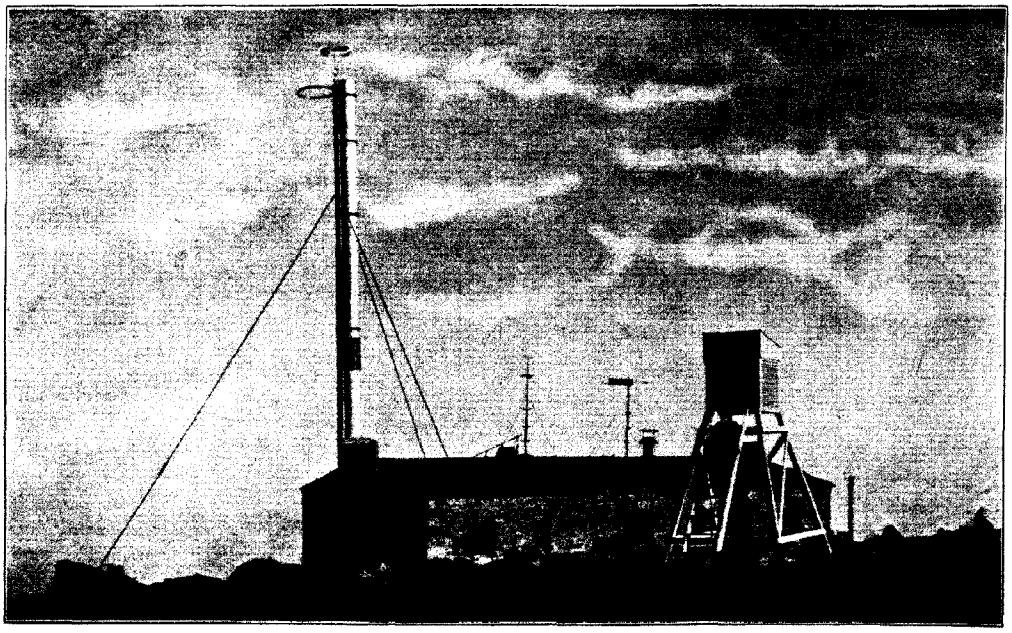

Fig. 3. Station of the U. S. Weather Bureau, 1892.
(From a photograph by Hiestand.)

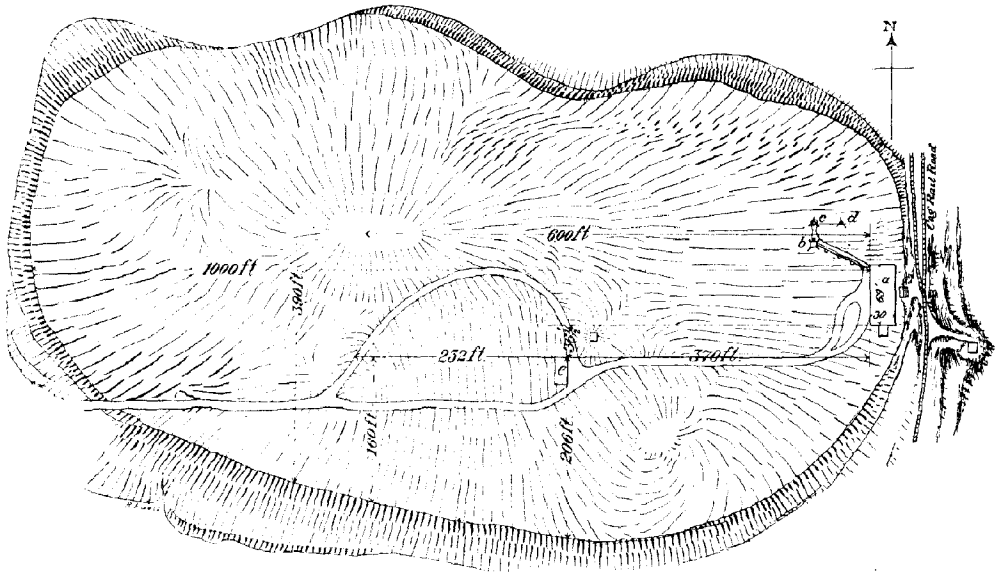

Fig. 4. Approximately Flat Portion of Summit of Pike's Peak.

c. Site of first signal service station.
a. Site of building occupied after 1892.

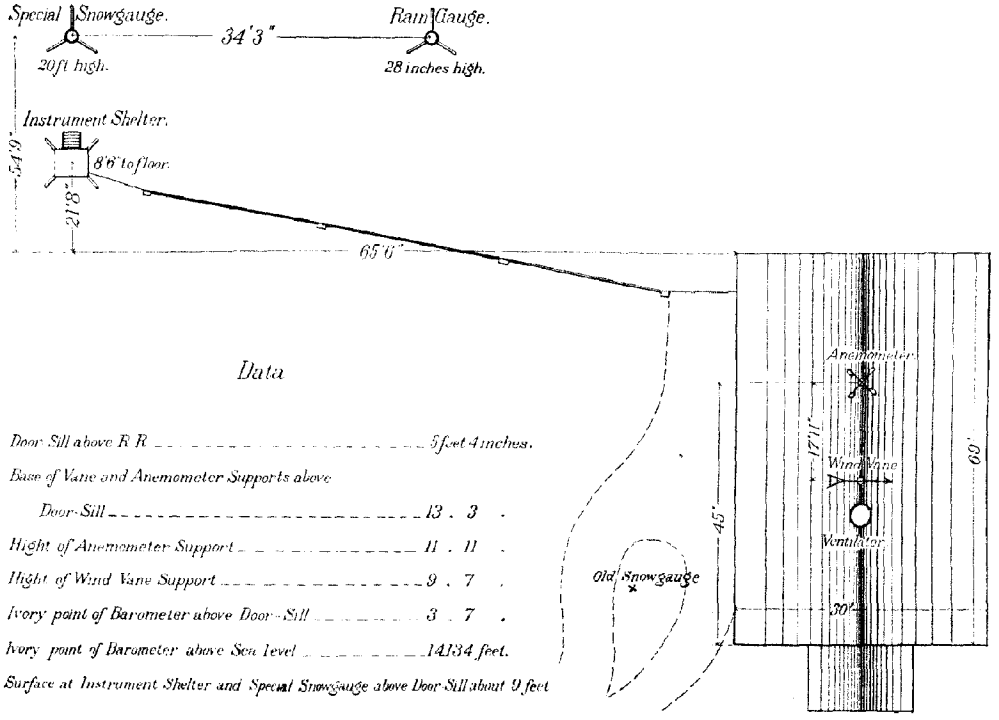

Fig. 5. Enlarged Plan of Location and Elevation of Instrument.

INSTRUMENTS, EXPOSURES, TOPOGRAPHY, ETC.

PIKES PEAK.

[Lat., 38° 50′ N.; long., 105° 02′ W.; elevation, 14,134 feet.]

The conditions of the exposure of instruments at Pikes Peak after the station was reopened in 1892 were, in several respects, essentially different from those that obtained during the former existence of this station. Fig. 2 shows a view of the old Signal Service station as it existed in 1885. The anemometer and wind vane are only 7 feet above the roof, the anemometer being at the north end of the building. The thermometer shelter is seen on the north wall near the ground and at the right in the picture. Access for reading instruments was gained from the inside through a double-sashed window.

Fig. 3 is from a photograph of the Weather Bureau station as it appeared in September, 1892. Shortly previous to this time the old building had been enlarged by adding the portion which in the figure is seen extending toward the left from the anemometer support. This support, though of different character, occupied the same place on the old portion of the building as the anemometer support seen in fig. 2. The anemometer cups, however, were 12 feet above the roof as against 7 feet in the former exposure.

The site of the wind-vane support was also the same as at the old station, but the height was increased to 9 feet 7 inches, and instead of extending the rod of the vane through the loft of the building into the office room with ceiling dial, the new vane, of improved construction, was provided with the electrically recording devices described and illustrated in the Annual Report of the Chief of the Weather Bureau, 1891–'92 (pp. 22–24). The new vane moved with much greater freedom than the old one.

The thermometer shelter is seen in the foreground and on the right in fig. 3. The shelter is of standard pattern; a single lattice box about 3 feet cube, with double roof. The exposure is regarded as exceptionally good.

Special snow gauge.—On the left in the foreground of fig. 3 is seen conspicuously a special snow gauge used in conjunction with the ordinary snow gauge. The latter is partly seen near the extreme left of the picture, as a slight projection above the rocks just under the guy rod.

The location of the gauges on the old station was at a point which, in fig. 3, lies between the instrument shelter and the right-hand end of the building. The gauges were about 10 to 15 feet from the building.

A better idea of the disposition of the instruments, in relation to the building, is obtained from the diagram fig. 4, with all dimensions marked, but not drawn strictly to scale.

The diagram in fig. 5 will give a general idea of the topography of the extreme summit of the mountain, which is comparatively flat over an ellipse-shaped extent averaging between 300 and 400 feet wide and 1,000 feet long in an east and west direction.

On the north the walls of the mountain are very precipitous, with projecting spurs on the east and west margins, forming a deep gorge with steep walls for from 1,500 to 2,000 feet. The eastern front of the mountain is similar, but rather less steep and less inclosed, except that southeastward a smaller gorge with steep and rugged walls contains a small lake sometimes dry in the late summer.

The slopes southward are quite gentle, the old trails and the present railroad approaches being laid over this portion. A stage road, recently completed to the summit, winds up the mountain on the western side, which, though more steep than the southern side, is still accessible.

The first Signal Service station was erected at the point marked *e* on the diagram. The present building, located at *a*, on the verge of the summit, commands an extended view of the entire horizon from Denver and the mountains northward to Pueblo and the Spanish Peaks of Colorado southward. Colorado Springs, 12 miles to the eastward, appears as it were at one's feet, with the vast level stretches of the plains beyond as far as the eye can see.

REMARKS UPON THE SPECIAL SNOW GAUGE.

The accurate determination of the amount of snowfall for such a station as at Pikes Peak presents many difficulties. Gauges of the ordinary pattern near the ground are often wholly buried; again, the drifting of the snow near the ground is excessive, often so that the whole air is filled with flying particles, when, in fact, no snow may exist a short distance overhead. The special gauge consisted of a long tube of galvanized iron 8 inches in diameter, the top edge being 20 feet above the surface of its base. One section of the tube near the base was pierced with a large number of holes 1 inch in diameter; the whole section was then covered with wire gauze.

At the bottom the tube entered a large box of wood. Within this, almost completely filling the available space, was a large rectangular tin box, which formed the receptacle for retaining the snow or rain collected. The bottom of the outer wooden box was made of slats. The object of this construction, as also that of the holes and wire gauze referred to above, was to permit a free flow of air downward through the gauge, which flow could not take place if the lower portion of the gauge was closed practically air-tight.

Air charged with snow flowing into this gauge escaped partly through the lateral holes near the bottom, the snow being retained by the wire gauze and by its inertia tending to fall into the box. Furthermore, the snow-charged air flowing into the enlarged box at the bottom finds its velocity greatly reduced, affording additional facility for the snow to settle quietly in the large tin receptacle. If desired, the slatted openings in the bottom of the wooden box could be tightly closed by means of a thin metal slide forming a false and tight bottom for the box.

To still further facilitate the access of snow to the gauge, the top was fitted with a revolving hood, not shown in the figure. This hood was simply an elbow joint of the pipe fitted with a metal tail which acted as a vane to always present the mouth of the elbow directly to the wind, which by this means was diverted directly down the tube, any snow that it might carry with it being strained out and retained in the manner already described.

Observation.—The contents of the tin box of this gauge were weighed at the regular observations, and a record kept of the equivalents of the snow in depth of water in inches.

It was not possible to ascertain the depth of snow in inches or feet by this device.

The catch of the gauge, expressed in inches and hundredths, and also that of the ordinary snow gauge, is given below for 1893:

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Ordinary	3.00	3.48	2.01	1.43	1.85	.67	1.49	2.65	.56	.95	1.61	2.04
Special	5.99	.....	21.54	12.42	.....	.....	.....	.....	.....	4.10	1.12	.....

COLORADO SPRINGS (BASE STATION).

[Lat. 38° 50′ N.; long. 104° 49′ W; elevation, 6,098 feet.]

The city of Colorado Springs is built upon an almost level plateau, with gradually rising mesas and bluffs on the northwest, sheltering the town slightly in that direction. It lies almost due east of the summit of Pikes Peak, at a distance of about 12 miles in an air line. Westward from the city the plateau, except for the bluffs above mentioned, is unbroken by any important elevations for a distance of nearly 5 miles, beyond which the mountains rise with pronounced abruptness from the plain and form a lofty wall extending many miles in a north and south direction. The nearest and most prominent summits (elevation from 9,000 to 11,000 feet) in this range are Cameron's Cone, only about 7 miles distant and a little south of west; also the Cheyenne Mountains, more distant and farther southward.

The Peak itself is beyond these lofty foothills and separated from their western and northwestern slopes by an extensive valley at some 9,000 to 10,000 feet elevation.

The observer's office is located in Hagerman Hall, a dormitory of Colorado College, North Cascade avenue, a little north of east as viewed from the summit of the Peak. The thermometers, with the exception of the minimum, are exposed in the regulation roof shelter. The minimum has a sod exposure. The anemometer, wind vane, and rain gauge have roof exposures.

Two persons are on duty continuously at both stations, an observer and an assistant at the Peak and two observers at the base station. The tour of duty on the Peak, except when stress of weather prevents relief from ascending the mountain, is limited to two weeks. Observations of the mercurial barometer, dry thermometers, wet thermometers, self-registering maximum and minimum thermometers, the direction and velocity of the wind, the amount of precipitation, if any, the kind, amount, and direction of the clouds, and the state of the weather are made three times daily at both stations, and special check readings of the mercurial barometer and thermometer are made on the Peak at various hours according to the meteorological conditions that prevail. The hourly pressures given in the tables are the corrected barograph readings, except when printed in italics. The latter are the readings of the mercurial barometer corrected for temperature and instrumental error, but not for standard gravity. An explanation of the method of correcting the barograph readings will be found on page 22 of this volume, and also on pages 43 and 44, Report of the Chief of the Weather Bureau, 1891–'92. The action of the barograph under the reduced pressure of the Peak is, on the whole, satisfactory. In general the corrections applied amounted to but a few hundredths of an inch, but in extreme cases a correction of eight-hundredths of an inch has been applied. For the summer months and during the warmer periods of the day the aneroid agrees with the mercurial within very narrow limits; in the early morning, however, the corrections frequently amount to four-hundredths of an inch and over.

The temperature values, like those of pressure, are the corrected thermograph readings, except when printed in italics; the latter are the readings of the standard dry thermometer. The daily extremes given in the tables are the readings of self-registering maximum and minimum thermometers, such as used at stations on lower levels.

The triple registers in use are of the minute contact class described on pages 22–25, Report of the Chief of the Weather Bureau, 1891–'92. The directions of the wind given in the table are those which prevailed during the respective hours as read off from the register sheets. When two directions were registered in an almost equal length of time the direction selected has been printed in italics.

The actual travel of the wind, as indicated by the linear motion of the Robinson anemometer cups multiplied by 3, is given for each hour, and also the maximum velocity for a five-minute period each day, midnight to midnight, standard time.

PIKES PEAK, COLO.

PRESSURE, 17 INCHES +.

NOTE.—All eye readings are printed in *italics*.

September, 1892.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9	1.10	1.09	1.09	1.08	1.08	1.08	1.08	*1.08*	1.09	1.09	1.10	1.10	1.10	1.10	1.11	1.11	1.10	1.10	1.09	*1.08*	*1.08*	1.08	1.08	1.07	1.09	1.11	1.07
10	1.07	1.05	1.05	1.04	1.00	1.00	1.00	*.99*	.98	.98	.98	.98	.98	.98	.97	.97	.97	.97	.97	.96	*.95*	.96	.97	.98	.99	1.07	.95
11	.98	.97	.96	.95	.94	.93	.92	*.92*	.92	.93	.93	.95	.96	.98	.98	1.00	1.00	1.00	1.00	*1.00*	*1.00*	1.01	1.01	1.02	.97	1.02	.92
12	1.01	1.01	1.00	.99	1.00	1.00	1.00	*1.00*	1.02	*1.03*	1.06	1.08	1.07	1.07	1.07	1.06	1.06	1.06	1.05	*1.04*	*1.04*	1.03	1.02	1.02	1.03	1.08	.99
13	1.01	1.00	1.00	1.00	.99	.98	.98	*1.00*	1.03	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03	*1.03*	1.03	1.04	1.05	1.05	1.02	1.05	.98
14	1.04	1.04	1.03	1.03	1.04	1.03	1.04	*1.04*	1.06	1.08	1.08	1.10	1.10	1.10	1.10	1.09	1.08	1.08	1.10	*1.10*	1.10	1.11	1.11	1.11	1.08	1.11	1.03
15	1.12	1.12	1.12	1.12	1.11	1.10	1.11	*1.11*	1.13	1.15	1.16	1.17	1.18	1.17	1.15	1.13	1.12	1.12	1.11	*1.11*	1.13	1.16	1.16	1.16	1.13	1.18	1.10
16	1.16	1.15	1.14	1.13	1.13	1.13	1.13	*1.13*	1.15	1.17	1.18	1.18	1.18	1.17	1.16	1.15	1.14	1.14	1.14	*1.14*	1.15	1.17	1.17	1.17	1.15	1.18	1.13
17	1.17	1.16	1.15	1.14	1.14	1.14	1.14	*1.14*	1.15	1.17	1.18	1.18	1.18	1.17	1.15	1.14	1.14	1.14	1.14	*1.13*	1.15	1.15	1.16	1.15	1.15	1.18	1.13
18	1.15	1.16	1.15	1.14	1.13	1.12	1.12	*1.13*	1.15	1.16	1.16	1.16	1.16	1.15	1.14	1.13	1.12	1.13	1.13	*1.12*	1.12	1.12	1.12	1.12	1.14	1.16	1.12
19	1.11	1.11	1.10	1.09	1.08	1.07	1.06	*1.06*	1.06	*1.06*	1.08	1.08	1.08	1.05	1.04	1.01	1.00	.98	.98	*.98*	.98	.98	.97	.97	1.04	1.11	.97
20	.97	.96	.95	.95	.94	.93	.93	*.92*	.94	.95	.95	.93	.93	.91	.91	.90	.87	.87	.88	*.80*	.80	.80	.80	.81	.90	.97	.80
21	.83	.83	.82	.80	.79	.81	.84	*.81*	.81	.83	.86	.88	.92	.92	.91	.91	.91	.90	.88	*.89*	.91	.92	.92	.92	.87	.92	.79
22	.93	.93	.93	.91	.89	.87	.85	*.86*	.90	.92	.94	.96	.96	.95	.95	.95	.95	.95	.94	*.94*	.95	.96	.96	.96	.93	.96	.85
23	.97	.95	.95	.95	.94	.94	.94	*.94*	.96	.98	.98	.98	.97	.97	.97	.96	.94	.94	.93	*.93*	.94	.94	.95	.95	.95	.98	.93
24	.93	.93	.92	.90	.85	.87	.93	*.94*	.98	.98	.98	1.01	1.01	1.03	1.02	1.02	1.02	1.03	1.04	*1.06*	1.10	1.11	1.11	1.11	1.00	1.11	.85
25	1.12	1.12	1.12	1.12	1.12	1.12	1.13	*1.16*	1.18	1.21	1.22	1.22	1.21	1.19	1.19	1.19	1.17	1.15	1.15	*1.16*	1.16	1.16	1.17	1.16	1.16	1.22	1.12
26	1.16	1.15	1.15	1.16	1.15	1.14	1.14	*1.14*	*1.15*	1.17	1.19	1.17	1.18	1.17	1.15	1.15	1.15	1.14	1.13	*1.11*	1.11	1.09	1.09	1.09	1.14	1.19	1.09
27	1.09	1.09	1.09	1.05	1.04	1.06	1.07	*1.11*	1.11	1.12	1.13	1.13	1.13	1.12	1.12	1.12	1.12	1.12	1.12	*1.12*	1.13	1.15	1.15	1.15	1.11	1.15	1.04
28	1.14	1.13	1.13	1.12	1.11	1.10	1.10	*1.10*	1.10	1.11	1.13	1.16	1.15	1.15	1.15	1.12	1.12	1.11	1.08	*1.08*	1.08	1.08	1.08	1.08	1.11	1.16	1.08
29	1.08	1.07	1.06	1.05	1.05	1.05	1.06	*1.07*	1.10	1.11	1.12	1.12	1.12	1.11	1.10	1.09	1.09	1.08	1.08	*1.08*	1.08	1.08	1.09	1.09	1.08	1.12	1.05
30	1.10	1.10	1.10	1.10	1.10	1.11	1.12	*1.12*	1.15	1.15	1.15	1.17	1.18	1.17	1.16	1.15	1.15	1.14	1.14	*1.14*	1.15	1.16	1.17	1.17	1.14	1.18	1.10
Mean	1.06	1.05	1.05	1.04	1.03	1.03	1.03	1.04	1.05	1.06	1.07	1.08	1.08	1.08	1.07	1.06	1.06	1.05	1.05	1.04	1.05	1.06	1.06	1.06	1.05	1.10	1.00

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

September, 1892.]

Day.	0–1h a. m.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Noon.	Noon–1h p. m.
1													
2													
3													
4													
5													
6													
7													
8	SW. 6	SW. 17	SW. 18	SW. 17	SW. 16	SW. 20	SW. 21	SW. 20	SW. 22	SW. 14	SW. 12	SW. 14	SW. 17
9	W. 22	W. 18	W. 20	W. 30	W. 28	W. 29	W. 35	W. 33	W. 30	W. 28	W. 24	W. 21	W. 25
10	NW. 5	SW. 7	NW. 9	NW. 13	W. 20	SW. 17	SW. 15	SW. 14	SW. 13	SW. 11	SW. 15	W. 20	SW. 10
11	*NE.* 17	NE. 15	NE. 18	NE. 20	NE. 24	NE. 23	NE. 23	NE. 24	NE. 23	NE. 21	NE. 22	NE. 18	NE. 14
12	NE. 23	NE. 25	NE. 23	NE. 23	NE. 22	NE. 16	NE. 14	NE. 11	NE. 16	NE. 15	NE. 11	NE. 9	NW. 7
13	W. 26	NW. 24	NW. 22	NW. 21	NW. 23	NW. 22	NE. 20	NE. 15	NE. 15	NE. 14	NE. 15	NE. 10	NE. 10
14	W. 16	W. 14	NW. 15	*NW. 13	*N. 11	*NE. 12	NE. 14	NE. 15	NE. 11	NE. 11	NE. 8	NE. 8	NE. 7
15	S. 18	SW. 15	SW. 15	*NW.* 13	W. 14	W. 13	*W.* 11	NE. 10	NE. 11	NE. 6	NE. 7	NW. 7	NE. 4
16	SW. 9	W. 7	W. 5	W. 5	W. 3	NW. 4	NW. 5	NW. 5	NW 3	NW. 4	*SE.* 4	*E.* 5	SW. 8
17	SW. 16	SW. 12	W. 15	W. 13	NW. 10	NW. 11	NW. 13	NW. 16	NW. 10	NW. 5	W. 9	W. 10	W. 11
18	SW. 3	NW. 5	NW. 1	NW. 6	NW. 7	NW. 10	NW. 12	NW. 7	NW. 8	NW. 6	NW. 7	NW. 9	SW. 5
19	SW. 7	SW. 9	SW. 10	SW. 10	SW. 8	SW. 7	SW. 11	SW. 15	SW. 10	SW. 8	SW. 12	SW. 13	
20	SW. 13	SW. 11	SW. 12	SW. 10	SW. 8	SW. 7	SW. 10	SW. 17	SE. 14	SE. 12	SW. 19	SW. 28	SW. 26
21	W. 36	W. 37	W. 52	W. 56	W. 56	W. 42	W. 32	W. 52	W. 58	W. 56	W. 51	W. 41	SW. 9
22	*SW.* 24	W. 25	W. 28	W. 28	W. 30	W. 41	W. 50	W. 38	W. 36	W. 36	W. 29	*SE.* 10	SE. 7
23	W. 29	W. 25	W. 20	W. 23	W. 20	W. 20	SW. 18	SW. 19	SW. 18	SW. 19	SW. 21	SW. 17	SW. 17
24	W. 50	W. 50	W. 37	W. 56	W. 60	W. 57	W. 45	W. 45	W. 38	NW. 36	NW. 33	NW. 29	NW. 19
25	W. 21	W. 17	W. 15	*S.* 8	SW. 10	SW. 13	SW. 14	SW. 13	SW. 15	SW. 15	SW. 9	SW. 9	S. 5
26	SW. 26	SW. 20	SW. 32	SW. 29	SW. 27	W. 32	W. 34	W. 38	W. 35	W. 28	W. 26	W. 20	SW. 14
27	W. 30	W. 23	W. 26	W. 38	W. 44	W. 40	NW. 32	N. 27	NE. 17	N. 14	N. 10	N. 10	NW. 11
28	SE. 17	S. 19	S. 22	S. 24	SW. 22	SW. 24	SW. 25	W. 25	W. 23	W. 21	W. 15	SW. 8	SW. 9
29	SW. 22	SW. 21	SW. 20	W. 29	W. 30	W. 27	W. 21	W. 22	W. 17	SW. 15	SW. 15	SW. 17	SW. 11
30	S. 16	SW. 11	SW. 13	SW. 12	SW. 9	SW. 8	SW. 8	*S.* 9	S. 11	SE. 10	SE. 11	SE. 11	E. 13
Mean	SW. 19.7	SW. 18.6	W. 19.5	W. 21.6	W. 21.9	W. 21.6	SW. 20.8	W. 21.1	W. 20.0	SW. 17.7	SW. 16.6	SW. 14.9	SW. 11.9

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [September, 1892.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8	33	32	31	31	31	30	30	*30*	31	32	33	34	36	37	39	40	38	37	36	34	33	31	31	30	33.3	41	29
9	29	26	28	29	28	31	31	*31*	32	34	35	37	38	39	42	44	46	44	41	*39*	38	38	37	35	35.5	47	26
10	35	35	33	33	33	33	32	*31*	32	33	34	35	37	37	36	34	32	29	27	*26*	26	26	26	24	31.6	37	26
11	23	23	22	22	21	19	18	*19*	20	21	22	23	24	26	27	28	29	30	31	*29*	29	28	28	27	24.5	32	19
12	26	27	26	26	26	25	24	*25*	25	*27*	29	32	32	33	35	36	34	32	32	*30*	31	30	29	30	29.2	37	23
13	29	29	30	30	30	29	30	*29*	31	32	33	34	34	36	37	38	37	37	36	*35*	34	33	33	32	32.8	39	28
14	33	33	33	32	32	32	32	*32*	33	34	36	36	37	40	42	44	42	40	39	*36*	34	33	35	34	35.6	46	31
15	33	33	33	32	32	33	33	*33*	35	37	37	39	39	41	41	42	43	44	40	*38*	37	37	36	35	36.8	46	32
16	36	37	37	37	37	37	36	*36*	39	40	41	41	42	42	44	43	43	39	37	*36*	37	37	37	36	36.8	45	34
17	35	35	36	35	36	35	35	*35*	36	37	38	39	40	40	41	42	42	43	40	*38*	38	37	37	37	37.8	45	35
18	36	36	35	35	35	34	34	*34*	34	35	37	38	38	34	38	40	41	39	39	*37*	36	35	35	35	36.2	43	33
19	34	32	33	32	32	32	31	*31*	32	*34*	35	36	39	38	40	41	41	40	39	*36*	36	35	34	33	35.2	43	30
20	32	31	31	30	30	30	29	*30*	30	32	33	34	36	36	38	38	38	35	33	*31*	30	29	28	28	32.2	41	29
21	28	27	27	26	26	26	26	*26*	26	27	28	30	34	36	37	38	39	39	38	*36*	34	33	33	32	31.3	42	22
22	32	31	29	29	29	28	27	*26*	26	26	27	33	34	36	39	40	40	40	38	*36*	36	36	34	33	32.7	42	25
23	31	31	31	30	30	30	30	*29*	30	31	31	33	34	36	38	39	40	40	39	*36*	32	32	31	31	33.1	43	28
24	32	31	29	28	28	28	28	*28*	30	31	33	35	35	38	40	41	41	41	40	39	38	37	36	34	34.2	43	23
25	33	33	33	33	35	34	33	*32*	33	34	37	39	40	40	41	42	43	40	38	*38*	36	34	33	36	36.2	44	32
26	37	35	34	34	34	35	34	*34*	*35*	36	38	41	41	44	45	46	46	46	45	*42*	41	40	40	39	39.2	48	34
27	38	37	36	36	36	35	35	*35*	35	36	37	38	41	44	44	46	47	46	40	*39*	39	39	38	37	38.9	48	34
28	36	36	35	33	35	34	34	*35*	36	36	38	39	40	42	43	44	45	44	43	*41*	38	37	36	38	38.2	47	33
29	38	38	37	38	37	36	37	*36*	36	37	39	41	42	43	44	45	45	45	42	*42*	40	37	36	37	39.5	49	36
30	36	38	38	38	39	38	38	*37*	38	41	43	44	45	46	45	45	44	43	42	*38*	37	36	36	37	40.1	46	36
Mean..	32.8	32.4	32.0	31.7	31.8	31.5	31.2	31.0	32.0	33.2	34.5	36.1	37.3	38.4	39.8	40.7	40.7	39.7	38.0	36.4	35.2	34.3	33.8	33.5	34.9	43.2	29.5

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[September, 1892.

Day.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Mid	Max.	Direction.
1													
2													
3													
4													
5													
6													
7													
8	SW. 14	SW. 17	SW. 19	SW. 16	SW. 12	W. 9	W. 7	SW. 8	W. 18	SW. 19	W. 26	24	SW.
9	W. 25	W. 14	W. 13	W. 11	*NW.* 9	*SW.* 6	E. 6	E. 4	N. 4	N. 4	N. 5	38	W.
10	W. 16	SW. 16	SW. 16	SW. 16	W. 13	NW. 13	W. 15	NW. 23	N. 18	NW. 18	NW. 18	26	NE.
11	NE. 10	NE. 6	NE. 6	NE. 6	N. 9	NW. 11	NW. 17	NW. 15	NE. 15	NE. 17	NE. 19	24	NE.
12	NW. 7	NW. 6	NW. 7	NE. 6	NE. 6	NE. 5	NE. 3	SW. 7	W. 16	W. 21	W. 25	26	NE.
13	NE. 8	*E.* *6	*E.* *4	E. *9	E. 10	E. 7	E. 8	*SE.* 9	SE. 6	S. 7	SW. 13	26	W.
14	SE. 5	E. 7	*E.* 6	SW. 7	SE. 5	E. 9	E. 14	SE. 14	SE. 12	*S.* 15	S. 17	29	W.
15	*SW.* 6	NW. 6	NW. 13	SW. 10	SW. 14	SW. 13	SW. 14	SW. 16	SW. 12	SW. 12	SW. 11	20	S.
16	W. 4	*W.* 6	SW. 11	SW. 9	SE. 10	SE. 10	*NW.* 8	W. 9	S. 7	*S.* 11	SW. 13	15	SW.
17	SW. 15	SW. 5	SW. 14	SW. 11	SW. 13	W. 19	W. 18	W. 15	W. 16	SW. 13	S. 4	24	W.
18	W. 11	SW. 12	SW. 15	SW. 11	SW. 19	SW. 11	SW. 8	W. 9	S. 7	S. 8	S. 6	26	S.
19	SW. 14	SW. 18	SW. 19	SW. 20	SW. 21	SW. 21	SW. 16	SW. 12	SW. 14	SW. 6	SW. 13	28	SW.
20	SW. 17	SW. 18	SW. 17	SW. 20	SW. 26	SW. 29	SW. 38	SW. 49	W. 58	W. 49	W. 39	66	W.
21	SW. 12	SW. 10	SW. 12	SW. 11	SW. 15	SW. 18	SW. 18	SW. 17	SW. 19	*SW.* 21	SW. 23	64	W.
22	SW. 11	SW. 16	SW. 14	SW. 22	SW. 22	SW. 23	SW. 24	SW. 25	SW. 21	SW. 22	SW. 26	60	W.
23	SW. 14	SW. 9	SW. 19	SW. 14	SW. 15	SW. 20	W. 35	W. 37	SW. 46	W. 40	SW. 25	54	W.
24	NW. 15	W. 19	W. 30	W. 31	W. 29	W. 39	NW. 20	NW. 18	NW. 22	NW. 15	W. 26	60	W.
25	SW. 8	SW. 15	SW. 21	SW. 21	SW. 17	SW. 29	SW. 26	SW. 24	SW. 20	SW. 23	SW. 24	34	W.
26	SW. 12	SW. 14	SW. 14	SW. 13	SW. 14	SW. 14	SW. 18	SW. 24	SW. 25	SW. 28	SW. 39	40	W.
27	*SW.* 11	W. 12	SW. 11	SW. 6	SW. 5	SW. 11	SE. 10	SE. 12	SE. 11	SE. 12	SE. 14	49	W.
28	SW. 10	SW. 14	SW. 15	SW. 14	SW. 14	SW. 20	SW. 25	SW. 26	SW. 26	SW. 23	SW. 18	27	SW.
29	SW. 9	SW. 9	SW. 8	SW. 8	SW. 10	SW. 15	SW. 15	SW. 20	*S.* 24	S. 22	S. 19	34	W.
30	E. 11	E. 10	SE. 10	SE. 10	SE. 9	SE. 10	SE. 18	SE. 22	SE. 21	SE. 25	SE. 27	32	SE.
Mean..	SW. 11.5	SW. 12.0	SW. 13.3	SW. 13.1	SW. 13.8	SW. 15.7	SW. 16.6	SW. 18.0	SW. 19.0	SW. 19.2	SW. 19.6		

PIKES PEAK, COLO.

PRESSURE. 17 INCHES +.

NOTE.—All eye readings are printed in *italics*.

October, 1892.] [Seventy-fifth

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	1.17	1.16	1.15	1.15	1.14	1.13	1.12	*1.12*	1.12	1.13	1.14	1.15	1.15	1.15	1.14	1.13	1.12	1.11	1.10	*1.09*	1.09	1.09	1.09	1.08	1.12	1.17	1.08
2	1.08	1.08	1.08	1.08	1.08	1.08	1.08	*1.10*	1.12	1.12	1.12	1.12	1.13	1.13	1.12	1.12	1.12	1.12	1.12	*1.10*	1.10	1.10	1.10	1.10	1.10	1.13	1.08
3	1.10	1.10	1.10	1.10	1.10	1.10	1.10	*1.11*	1.12	*1.14*	1.13	1.13	1.13	1.13	1.12	1.12	1.12	1.11	1.12	*1.12*	1.13	1.14	1.14	1.14	1.20	1.14	1.10
4	1.13	1.13	1.13	1.12	1.11	1.11	1.11	*1.11*	1.11	1.11	1.12	1.13	1.14	1.12	1.11	1.10	1.10	1.10	1.10	*1.09*	1.09	1.10	1.10	1.10	1.11	1.14	1.09
5	1.09	1.07	1.06	1.06	1.06	1.06	1.06	*1.06*	1.07	1.08	1.08	1.08	1.08	1.08	1.07	1.06	1.04	1.04	1.03	*1.03*	1.03	1.04	1.04	1.03	1.06	1.09	1.03
6	1.03	1.01	1.00	1.01	1.00	.99	.99	*.99*	.98	1.00	.99	1.01	1.01	1.00	.99	.98	.98	.96	.96	*.96*	.96	.96	.96	.97	.99	1.03	.96
7	.96	.95	.95	.95	.95	.95	.94	*.94*	.93	.95	.96	.98	.98	.97	.97	.98	.98	.98	.98	*.98*	.99	.99	.99	1.01	.97	1.01	.93
8	1.01	1.01	1.00	1.00	.99	.99	.99	*1.00*	1.00	.99	1.00	1.03	1.04	1.05	1.05	1.04	1.04	1.03	1.03	*1.02*	1.01	1.01	1.00	1.01	1.01	1.05	.99
9	1.00	.99	.98	.97	.97	.96	.96	*.97*	.97	.97	.96	.96	.96	.96	.94	.94	.93	*.92*	.90	*.90*	.88	.83	.87	.86	.94	1.00	.86
10	.85	.82	.79	.79	.78	.78	.78	*.77*	.76	.77	.77	.78	.77	.76	.75	.75	.76	.76	.76	*.76*	.77	.77	.76	.76	.77	.85	.75
11	.73	.72	.71	.68	.68	.67	.65	*.62*	.59	.56	.56	.55	.54	*.53*	.48	.49	.49	.49	.47	*.47*	.45	.45	.45	.45	.56	.73	.45
12	.43	.42	.40	.38	.35	.33	.32	*.30*	.27	.25	.22	.25	.28	*.30*	.32	.36	.40	.41	.41	*.42*	.43	.45	.48	.49	.36	.49	.22
13	.50	.50	.50	.50	*.52	*.55	*.58	*.59	*.60	*.62	.65	.66	.67	*.67*	.67	.65	.67	.68	.68	*.70*	.72	.73	.74	.75	.63	.75	.50
14	.76	.74	.75	.73	.73	.74	.75	*.76*	.77	.79	.79	.79	.80	*.81*	.82	.83	.83	.82	.81	*.82*	.83	.83	.81	.80	.79	.83	.73
15	.79	.78	.75	.74	.74	.76	.76	*.76*	.74	.76	.77	.80	.79	*.78*	.77	.76	.80	.80	.77	*.76*	.77	.78	.79	.78	.77	.80	.74
16	.75	.71	.71	.70	.67	.65	.65	*.65*	.65	.64	.66	.68	.65	*.63*	.61	.60	.59	.57	.58	*.54*	.54	.53	.51	.53	.62	.75	.51
17	.51	.52	.51	.49	.49	.51	.56	*.56*	.56	.54	.54	.55	.57	*.58*	.59	.60	.59	.59	.60	*.60*	.60	.60	.62	.56	.56	.62	.49
18	.58	.61	.64	.64	.64	.66	.66	*.66*	.67	.70	.72	.72	.72	*.71*	.70	.71	.74	.74	.74	*.74*	.75	.73	.73	.74	.69	.74	.58
19	.73	.70	.69	.68	.66	.66	.66	*.68*	.68	.70	.70	.70	.70	*.70*	.70	.70	.70	.70	.69	*.70*	.71	.71	.72	.73	.70	.73	.66
20	.76	.76	.76	.75	.75	.77	.77	*.78*	.79	*.80*	.82	.83	.82	*.81*	.80	.80	.79	.78	.78	*.78*	.80	.80	.80	.79	.79	.83	.75
21	.77	.76	.74	.72	.72	.75	.76	*.77*	.79	.79	.79	.80	.81	*.81*	.81	.82	*.81*	.81	.82	*.83*	.83	.84	.85	.85	.79	.85	.72
22	.84	.84	.83	.82	.81	.81	.80	*.81*	.80	.81	*.83*	.82	.82	*.81*	.80	.79	*.78*	.79	.79	*.80*	.80	.80	.80	.82	.81	.84	.78
23	.82	.80	.80	.79	.78	.77	.76	*.76*	.75	.79	*.79*	.78	.77	*.76*	.75	.75	*.75*	.75	.75	*.76*	.77	.78	.78	.79	.77	.82	.75
24	.79	.79	.80	.80	.82	.82	.84	*.85*	.86	*.87*	.87	.89	.91	*.92*	.93	.93	*.94*	.94	.94	*.95*	.96	.96	*.96*	.96	.89	.96	.79
25	.95	.95	.95	.95	.96	.95	.96	*.95*	.94	.95	*.96*	.97	.97	*.95*	.93	.91	*.92*	.92	.93	*.93*	.93	.94	.93	.94	.94	.97	.91
26	.94	.93	.93	.93	.92	.92	.93	*.94*	.95	.95	*.96*	.96	.96	*.96*	.97	.97	*.98*	.98	.99	*.99*	.99	.99	.99	.99	.96	.99	.92
27	.99	.99	.99	.99	.98	.98	.98	*.97*	.97	.98	*.99*	.99	.99	*.97*	.95	.94	*.94*	.94	.93	*.92*	.91	.90	.90	.90	.96	.99	.90
28	.89	.90	.91	.91	.92	.93	.93	*.94*	.94	.95	*.95*	.94	.94	*.94*	.92	.90	*.90*	.90	.90	*.90*	.88	.88	.86	.85	.91	.95	.85
29	.82	.79	.78	.77	.76	.76	.76	*.75*	.73	.73	*.78*	.72	.70	*.70*	.69	.69	*.66*	.64	.62	*.62*	.62	.63	.62	.61	.70	.82	.61
30	.60	.57	.57	.57	.56	.56	.57	*.57*	.55	.56	*.58*	.58	.57	*.55*	.53	.53	*.53*	.55	.56	*.58*	.59	.57	.57	.57	.56	.60	.53
31	.57	.57	.58	.58	.58	.58	.59	*.59*	.58	.59	*.60*	.59	.58	*.68*	.57	.57	*.66*	.56	.56	*.58*	.58	.58	.57	.57	.58	.60	.56
Mean..	.84	.83	.82	.82	.81	.82	.82	.82	.82	.82	.83	.84	.84	.83	.82	.82	.82	.82	.82	.82	.82	.82	.82	.82	.88	.77	

* Interpolated.

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

October, 1892.]

Day.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p. m.	
1	SE.	28	SE.	22	SE.	18	S.	17	S.	17	SW.	20	SW.	23	SW.	19	SW.	13	SW.	13	SW.	9	SW.	5	SE.	7
2	SW.	18	W.	16	*NW.*	9	*N.*	8	NW.	8	N.	7	NW.	7	NW.	7	NW.	6	NW.	4	NW.	4	SW.	8	SW.	10
3	SE.	9	SE.	11	SW.	9	SW.	8	SW.	11	SW.	15	W.	21	W.	23	W.	19	NW.	15	NW.	12	NW.	7	W.	7
4	NW.	6	NW.	8	NW.	10	NW.	9	NE.	7	NE.	5	NE.	5	NE.	6	N.	8	N.	9	N.	6	NW.	5	NE.	6
5	SW.	10	SW.	15	W.	16	W.	17	W.	16	W.	14	N.	12	N.	9	N.	9	N.	5	N.	4	NE.	6	NE.	5
6	SW.	6	W.	10	W.	8	W.	8	SW.	9	SW.	11	W.	13	W.	14	W.	15	W.	13	W.	10	SW.	7	SW.	6
7	W.	6	W.	13	NW.	7	SW.	5	SW.	9	SW.	11	SW.	15	SW.	16	SW.	15	SW.	18	SW.	18	SW.	15	SW.	15
8	SW.	5	SW.	10	SW.	16	W.	13	W.	16	W.	19	W.	23	W.	23	W.	24	W.	26	W.	26	W.	20	W.	13
9	SW.	15	SW.	18	SW.	16	SW.	19	SW.	17	W.	17	W.	16	W.	11	W.	4	E.	4	E.	8	E.	10	SE.	5
10	SW.	14	W.	26	W.	29	W.	37	W.	34	W.	34	W.	15	W.	26	W.	21	W.	17	NW.	9	SW.	4	NE.	5
11	SW.	12	SW.	18	SW.	21	SW.	25	SW.	26	SW.	29	W.	28	W.	32	W.	42	W.	48	W.	44	W.	56	S.	43
12	SW.	30	SW.	19	SE.	11	E.	11	N.	19	NE.	25	NE.	22	NE.	26	NE.	24	NE.	30	NE.	34	NE.	42	NE.	41
13	NE.	20	NE.	26	NE.	26	NE.	23	NE.	25	NE.	21	NE.	20	NE.	*18	N.	*15	NE.	*10	NE.	*8	NE.	*9	N.	*19
14	W.	*12	W.	*10	W.	*12	W.	*11	W.	*11	NW.	*11	NW.	*24	NW.	*30	NW.	*28	NW.	*30	W.	*30	W.	30	W.	37
15	W.	55	W.	57	W.	67	W.	64	W.	*68	W.	*45	W.	*42	W.	*47	W.	*35	W.	*22	W.	*22	S.	*30	W.	*30
16	SW.	63	SW.	67	SW.	66	SW.	68	SW.	70	SW.	73	SW.	76	SW.	73	SW.	71	SW.	76	SW.	72	SW.	60	SW.	63
17	SW.	66	SW.	57	SW.	63	SW.	58	SW.	61	SW.	53	W.	*47	SW.	*36	S.	*38	W.	40	SW.	33	SW.	*26	S.	*20
18	W.	*68	W.	*55	NW.	44	NW.	41	NW.	35	NW.	31	NW.	36	W.	50	W.	49	W.	45	W.	39	W.	33	W.	35
19	SW.	36	SW.	36	SW.	38	SW.	44	SW.	41	SW.	41	SW.	37	SW.	36	SW.	37	SW.	40	SW.	*38	SW.	*36	S.	31
20	W.	12	W.	10	SW.	12	SW.	13	SW.	13	SW.	12	SW.	10	SW.	11	SW.	11	SW.	13	SW.	18	SW.	9	SE.	8
21	W.	14	W.	12	W.	14	W.	16	W.	17	W.	14	W.	13	W.	13	NW.	13	NW.	10	NW.	4	N.	6	N.	5
22	NE.	6	NE.	7	E.	8	E.	9	E.	7	E.	3	E.	4	E.	5	E.	11	E.	9	E.	12	E.	12	E.	9
23	E.	8	E.	5	E.	7	E.	8	E.	7	E.	5	E.	5	E.	6	NE.	9	NE.	12	NE.	11	NE.	11	N.	14
24	NE.	17	NE.	22	NE.	25	NE.	27	NE.	30	NE.	29	NE.	28	NE.	26	NE.	27	NE.	27	NE.	27	NE.	27	NE.	18
25	N.	9	NE.	10	NE.	9	N.	5	N.	9	N.	13	N.	12	N.	13	N.	11	NE.	15	NE.	17	NE.	17	N.	12
26	NE.	26	NE.	22	NE.	20	NE.	26	NE.	33	NE.	29	NE.	32	NE.	29	NE.	31	NE.	30	NE.	31	NE.	35	NE.	34
27	N.	14	NE.	13	NE.	12	NE.	11	NE.	13	N.	14	N.	14	NW.	16	N.	20	N.	15	NE.	10	NE.	11	N.	9
28	NW.	46	NW.	40	N.	33	N.	33	NE.	23	N.	20	N.	18	N.	15	N.	13	NW.	6	NW.	5	E.	8	E.	5
29	S.	49	S.	50	S.	60	S.	56	S.	53	SW.	53	SW.	44	SW.	44	SW.	53	S.	53	S.	54	S.	51	S.	55
30	SW.	10	SW.	12	SW.	12	SW.	10	SW.	7	SW.	6	†NW.		†N.		†NW.		NW.	34	N.	23	N.	23	N.	19
31	NW.	21	NW.	19	NW.	18	N.	13	N.	15	N.	9	NE.	8	NE.	9	NE.	14	NE.	13	NE.	12	N.	14	N.	15
Mean..	SW.	22.9	SW.	23.1	SW.	23.1	SW.	23.0	SW.	23.5	SW.	22.3	W.	22.4	W.	23.0	W.	22.8	NE. W.	22.7	SW. W.	21.0	SW.	20.4	N.	19.7

* Interpolated.

† Anemometer cups stopped by frost feathers.

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [October, 1892.

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	36	36	36	35	35	34	34	*34*	34	35	37	38	43	44	45	47	43	44	42	*39*	39	37	36	36	38.3	47	34
2	36	36	35	34	34	34	33	*33*	33	34	36	36	37	38	39	39	38	37	35	*32*	31	30	30	29	34.5	41	32
3	30	29	28	28	29	29	29	*29*	30	*31*	31	32	34	35	36	38	38	36	35	*34*	34	33	33	33	32.2	39	27
4	32	32	32	31	31	31	30	*30*	32	33	33	37	36	37	40	37	35		34	*34*	33	33	33	33	33.5	40	29
5	32	31	31	31	31	32	31	*31*	32	33	34	35	36	36	37	35	35	34	33	*32*	31	31	31	30	32.7	37	30
6	30	30	29	29	29	28	28	*28*	29	30	32	35	36	37	37	35	34	33	29	*31*	30	31	30	29	31.2	37	28
7	28	26	27	26	26	24	23	*23*	24	25	27	29	30	31	33	34	33	31	29	*30*	29	30	29	28	28.1	34	22
8	28	27	26	25	24	25	25	*25*	25	20	27	29	32	33	34	35	35	33	32	*29*	27	27	27	26	28.4	36	24
9	25	25	25	25	25	24	25	*25*	26	29	30	30	31	32	32	33	34	*32*	29	*29*	27	28	28	27	28.2	34	24
10	26	26	24	25	24	23	23	*23*	23	*22*	24	24	26	25	26	26	25	24	24	*24*	24	22	22	22	24.0	27	23
11	21	22	22	21	20	22	23	*22*	22	23	23	24	25	27	27	29	27	26	23	*23*	21	20	18	15	22.8	28	19
12	13	13	12	8	5	6	6	*6*	7	8	10	12	*13	*15*	17	19	22	20	17	*14*	13	13	12	12	12.2	23	—5
13	12	12	11	7	3	—3	3	*11*	12	13	13	14	14	*15*	16	17	17	17	17	*17*	17	18	18	18	12.9	18	—12
14	19	19	20	20	21	21	22	*22*	23	24	25	26	28	*29*	30	29	28	26	25	*25*	24	23	24	*25	24.1	30	11
15	27	28	28	28	27	25	24	*23*	23	22	22	24	24	*24*	25	23	23	24	25	*25*	24	25	25	27	25.0	27	18
16	26	25	27	27	28	27	23	*24*	24	25	25	25	26	*27*	26	25	25	23	21	*20*	20	18	16	16	23.7	29	15
17	*14	*12	*10	*6	*0	*—3	*3	7	8	8	9	9	10	*12*	12	10	7	5	3	*2*	1	0	0	0	6.0	12	—12
18	0	6	7	8	10	8	8	*9*	11	12	13	14	15	*15*	16	16	19	17	16	*16*	15	16	15	14	12.3	19	—16
19	13	14	13	13	13	12	12	*12*	13	*14*	15	16	18	*20*	19	20	20	20	18	*16*	16	16	16	14	15.5	21	1
20	15	13	15	17	17	17	17	*17*	18	*19*	20	23	23	*23*	22	22	*21*	21	21	*22*	21	19	19	18	19.1	24	13
21	16	14	12	12	11	10	8	*11*	12	13	*16*	16	17	*19*	19	18	*15*	13	12	*12*	12	11	12	12	13.5	20	8
22	12	12	13	13	12	11	11	*11*	12	12	*13*	13	13	*14*	16	16	*16*	14	15	*15*	14	14	14	14	13.3	17	10
23	13	13	12	11	11	10	10	*11*	11	12	*13*	12	13	*14*	13	13	*13*	12	10	*10*	9	9	8	8	11.3	13	10
24	6	6	6	8	7	5	5	*6*	7	*9*	*11*	12	12	*13*	14	14	*14*	13	12	*13*	13	14	14	14	10.3	14	2
25	14	14	16	15	15	16	15	*15*	12	13	*13*	13	15	*15*	14	14	*14*	14	13	*12*	10	12	11	11	13.6	17	8
26	10	13	13	14	15	16	15	*14*	14	15	*15*	16	15	*16*	17	17	*22*	22	23	*22*	22	21	20	22	17.0	22	8
27	21	22	22	23	23	25	23	*24*	24	25	*26*	26	27	*26*	27	26	*26*	26	24	*23*	22	22	22	21	24.0	27	18
28	23	22	22	23	23	22	23	*23*	24	24	*28*	29	29	*28*	25	23	*20*	19	20	*19*	18	17	15	14	22.2	29	18
29	14	15	16	16	15	18	17	*16*	16	17	*18*	19	20	*21*	20	19	*18*	16	16	*16*	16	15	16	15	16.9	20	14
30	14	13	12	12	11	11	12	*13*	13	14	*14*	14	14	*15*	16	16	*16*	16	15	*14*	13	12	11	10	13.4	16	0
31	10	9	9	9	9	9	9	*9*	9	10	*11*	12	13	*14*	14	14	*15*	14	14	*14*	13	13	13	11	11.5	15	7
Mean..	19.8	19.8	19.7	19.4	18.8	18.4	18.4	18.9	19.5	20.3	21.4	22.4	23.4	24.2	24.6	24.5	24.2	23.2	22.0	21.4	20.6	20.4	20.0	19.5	21.0	26.2	13.5

*Interpolated.

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[October, 1892.

Day.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Mid.	Max.	Direction.
1	S. 6	S. 8	S. 8	S. 9	SW. 10	SW. 13	SW. 18	SW. 15	SW. 20	SW. 17	SW. 15	32	SE.
2	S. 8	S. 8	SE. 8	SE. 9	S. 9	SW. 9	W. 9	SW. 8	SW. 11	SW. 10	SW. 11	19	SW.
3	W. 8	SW. 9	SW. 9	W. 11	W. 11	N. 8	N. 9	NW. 9	N. 10	N. 7	NE. 6	24	W.
4	N. 5	NW. 5	NE. 6	NE. 4	N. 3	NE. 3	SW. 4	SW. 5	S. 5	SE. 5	S. 5	13	W.
5	NE. 6	NE. 6	NE. 8	NE. 6	NE. 9	E. 11	E. 8	E. 6	NE. 4	*SW.* 2	SW. 6	20	N.
6	SW. 5	NE. 4	E. 7	E. 9	E. 9	NW. 8	NE. 9	E. 5	W. 5	*NW.* 3	SW. 3	15	W.
7	SW. 12	SW. 11	SW. 11	SW. 6	SW. 7	*NW.* 5	N. 4	*NW.* 3	*SW.* 5	SW. 5	*W.* 6	20	SW.
8	SW. 10	S. 9	SW. 13	S. 15	SW. 14	SW. 12	S. 8	SW. 8	SW. 15	SW. 16	SW. 12	27	W.
9	NW. 5	NW. 8	NW. 10	W. 13	W. 11	NW. 9	NW. 9	W. 14	W. 19	SW. 11	SW. 19	25	W.
10	NE. 10	NE. 7	E. 12	E. 18	NE. 9	NE. 5	E. 3	S. 4	SW. 8	SW. 10	SW. 12	44	W.
11	SW. 30	SW. 32	S. 28	S. 27	SW. 17	SW. 24	SW. 21	S. 14	S. 21	SE. 8	W. 17	60	W.
12	NE. 34	NE. 33	NE. 34	NE. 32	NE. 31	NE. 30	NE. 29	NE. 28	NE. 20	NE. 25	NE. 24	46	NE.
13	NE. *28	*NW.* *30	N. *32	W. *33	NW. *25	NW. *26	NW. *24	NW. *20	NW. *18	NW. *15	NW. *16	40	W.
14	W. 37	W. 42	W. 36	W. 31	W. 33	W. 32	W. 37	*SW.* 43	SW. 45	SW. 46	SW. 52	56	SW.
15	W. *41	SW. 48	SW. 56	SW. 34	SW. 34	SW. 46	SW. 57	SW. 54	SW. 47	SW. 48	SW. 55	72	W.
16	SW. 61	SW. *66	SW. *63	SW. *61	SW. *66	SW. *67	SW. *66	SW. *64	W. 64	W. 76	SW. 63	88	SW.
17	S. *24	S. *20	SW. *18	*SW.* 21	W. 37	W. 41	W. 37	SW. 34	W. 37	SW. 33	W. 60	72	SW.
18	W. 36	W. 35	NW. 24	W. 20	W. 22	W. 25	SW. 25	SW. *21	SW. *25	SW. 33	SW. 35	72	W.
19	S. 27	W. 31	SW. 30	SW. 27	SW. 25	SW. 25	SW. 24	SW. 24	S. 22	S. 18	S. 13	48	SW.
20	SE. 9	SE. 14	S. 17	SE. 16	*E.* 16	SE. 19	SE. 16	SE. 16	S. 18	S. 18	SW. 16	21	SE.
21	SW. 6	SW. 10	SW. 9	*S.* 5	NW. 8	N. 6	N. 6	NE. 10	NE. 8	NE. 7	NE. 6	17	W.
22	E. 7	E. 6	E. 7	E. 8	SE. 6	SE. 10	SE. 10	E. 5	E. 6	E. 8	E. 8	16	E.
23	N. 17	NE. 19	NE. 17	NE. 13	NE. 13	NE. 13	NE. 11	NE. 16	NE. 19	NE. 16	NE. 17	22	NE.
24	NE. 17	NE. 11	NE. 7	NE. 8	NE. 16	NE. 18	NE. 16	NE. 18	NE. 22	NE. 17	NE. 11	31	NE.
25	N. 11	NW. 18	NW. 25	NW. 27	NW. 24	N. 22	N. 16	N. 17	N. 18	NE. 21	NE. 26	33	NW.
26	NE. 30	NE. 28	NE. 27	NE. 28	NE. 25	NE. 23	NE. 26	NE. 28	NE. 24	NE. 20	NE. 14	40	NE.
27	NW. 11	NW. 18	W. 23	W. 26	W. 31	W. 35	W. 36	W. 38	W. 39	NW. 38	NW. 50	54	NW.
28	E. 8	SE. 14	SE. 16	SE. 16	SE. 16	S. 23	S. 26	S. 31	S. 32	S. 39	S. 47	54	NW.
29	*S.* 36	SW. 28	SW. 23	SW. 24	SW. 28	SW. 34	SW. 23	SW. 18	SW. 14	W. 15	SW. 15	66	S.
30	NW. 20	NW. 27	NW. 25	NW. 26	NW. 21	N. 11	N. 13	N. 11	N. 20	NW. 27	NW. 25	36	NW.
31	N. 20	W. 26	W. 25	SW. 22	SW. 22	W. 16	W. 8	SW. 6	S. 8	S. 7	SE. 6	27	W.
Mean..	SW. 18.9	NE. SW. 20.4	SW. 20.6	SW. 19.5	SW. 19.4	SW. 20.5	SW. 19.5	SW. 19.4	SW. 20.4	SW. 20.0	SW. 21.8	.....	.....

*Interpolated.

PIKES PEAK, COLO.

PRESSURE, 17 INCHES +.

NOTE.—All eye readings are printed in *italics*.

November, 1892.] [Seventy fifth

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11	Mid.	Mean.	Max.	Min.
1	.57	.56	.54	.53	.52	.51	.51	.51	.50	.52	.53	.52	.52	.51	.50	.50	.53	.53	.54	.57	.57	.58	.58	.58	.54	.58	.50
2	.59	.59	.59	.60	.60	.60	.62	.63	.64	.64	.66	.65	.65	.65	.65	.67	.67	.67	.68	.68	.68	.69	.69	.69	.64	.69	.59
3	.70	.69	.69	.66	.67	.68	.70	.71	.71	.72	.74	.72	.70	.68	.71	.74	.78	.77	.78	.82	.83	.84	.84	.84	.74	.84	.66
4	.84	.84	.85	.85	.85	.86	.87	.88	.89	.89	.91	.91	.91	.91	.90	.90	.91	.92	.92	.92	.93	.93	.93	.93	.89	.93	.84
5	.84	.94	.94	.93	.92	.92	.91	.89	.89	.88	.88	.87	.86	.81	.80	.78	.74	.72	.69	.68	.67	.64	.63	.61	.81	.94	.61
6	.58	.56	.55	.54	.52	.49	.45	.46	.47	.48	.43	.43	.45	.45	.47	.48	.50	.50	.50	.49	.48	.48	.49	.49	.49	.58	.43
7	.50	.50	.50	.50	.49	.48	.49	.49	.49	.49	.52	.52	.54	.54	.54	.52	.52	.52	.52	.53	.53	.53	.52	.53	.51	.54	.48
8	.52	.52	.51	.50	.48	.47	.48	.48	.48	.48	.50	.50	.52	.52	.53	.53	.55	.56	.57	.59	.60	.61	.62	.63	.53	.63	.47
9	.63	.63	.63	.64	.64	.64	.65	.65	.65	.70	.72	.75	.75	.75	.75	.78	.80	.82	.83	.84	.88	.88	.89	.90	.74	.90	.63
10	.91	.91	.92	.93	.93	.93	.93	.94	.94	.93	.92	.91	.90	.89	.87	.85	.85	.86	.87	.88	.89	.87	.89	.91	.90	.94	.85
11	.91	.92	.92	.92	.92	.93	.93	.94	.95	.95	.95	.94	.94	.91	.90	.90	.89	.89	.88	.90	.91	.92	.93	.93	.92	.95	.88
12	.93	.93	.92	.91	.91	.89	.88	.88	.87	.89	.88	.86	.85	.80	.78	.74	.75	.74	.72	.70	.69	.68	.69	.69	.82	.93	.68
13	.68	.72	.74	.70	.71	.70	.71	.71	.73	.76	.79	.81	.80	.79	.78	.76	.78	.79	.80	.81	.82	.82	.82	.82	.76	.82	.68
14	.82	.82	.80	.76	.73	.69	.69	.66	.65	.62	.60	.60	.58	.56	.55	.55	.56	.56	.56	.58	.57	.55	.54	.53	.63	.82	.53
15	.53	.48	.48	.47	.47	.47	.45	.44	.43	.43	.43	.40	.41	.40	.39	.39	.38	.38	.38	.40	.39	.39	.39	.36	.42	.53	.36
16	.36	.35	.33	.32	.31	.31	.29	.29	.29	.29	.28	.26	.26	.24	.23	.22	.23	.24	.22	.21	.25	.26	.28	.29	.28	.36	.21
17	.30	.31	.31	.32	.30	.30	.34	.40	.43	.47	.49	.50	.50	.48	.50	.52	.54	.56	.58	.60	.63	.65	.64	.64	.47	.65	.30
18	.66	.66	.64	.65	.65	.65	.66	.67	.69	.71	.73	.76	.75	.72	.71	.71	.75	.75	.77	.79	.78	.81	.81	.80	.72	.81	.64
19	.81	.81	.79	.80	.81	.79	.76	.73	.74	.77	.79	.81	.80	.77	.75	.72	.71	.70	.70	.69	.61	.61	.58	.54	.73	.81	.54
20	.53	.49	.49	.51	.50	.50	.52	.54	.56	.60	.60	.65	.67	.67	.71	.70	.70	.70	.72	.74	.74	.76	.76	.76	.63	.76	.49
21	.74	.74	.74	.75	.75	.75	.79	.82	.83	.84	.86	.85	.86	.86	.85	.84	.83	.84	.84	.86	.86	.88	.88	.88	.82	.88	.74
22	.85	.86	.86	.88	.88	.89	.91	.91	.94	.93	.92	.92	.91	.90	.89	.88	.88	.87	.86	.86	.86	.86	.85	.86	.88	.94	.85
23	.86	.85	.84	.83	.82	.80	.81	.81	.82	.81	.80	.79	.78	.74	.72	.70	.70	.68	.68	.66	.65	.66	.65	.65	.76	.86	.65
24	.61	.60	.59	.58	.56	.55	.46	.46	.44	.45	.46	.45	.42	.37	.34	.34	.30	.28	.27	.26	.23	.20	.09	.10	.39	.61	.09
25	.10	.08	.14	.13	.13	.16	.19	.21	.23	.26	.30	.36	.37	.40	.42	.46	.50	.51	.52	.53	.52	.50	.49	.48	.33	.52	.08
26	.46	.43	.40	.40	.41	.41	.42	.43	.42	.43	.45	.45	.45	.44	.44	.44	.48	.48	.50	.51	.51	.52	.51	.49	.45	.52	.40
27	.46	.48	.48	.49	.49	.50	.51	.52	.52	.53	.54	.55	.55	.57	.59	.60	.64	.64	.66	.68	.68	.66	.65	.63	.57	.68	.46
28	.64	.65	.65	.64	.66	.66	.66	.66	.66	.66	.66	.67	.69	.69	.65	.66	.67	.67	.68	.71	.70	.72	.72	.70	.67	.72	.64
29	.73	.72	.71	.71	.72	.73	.73	.74	.77	.78	.77	.78	.79	.78	.78	.77	.76	.76	.78	.79	.80	.80	.80	.80	.76	.80	.71
30	.79	.79	.79	.79	.80	.80	.80	.80	.79	.78	.79	.79	.80	.79	.79	.76	.76	.76	.76	.77	.77	.77	.77	.75	.78	.80	.75
Mean	.65	.65	.64	.64	.64	.64	.64	.64	.65	.66	.66	.67	.67	.65	.65	.65	.66	.66	.66	.67	.67	.67	.66	.66	.65	.74	.56

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

November, 1892.]

Day.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p. m.	
1	S.	8	S.	7	S.	9	SE.	4	SE.	5	S.	7	E.	5	E.	6	E.	10	E.	12	E.	14	E.	15	E.	26
2	E.	12	E.	10	E.	7	E.	5	E.	6	E.	5	E.	4	E.	3	E.	2	E.	0	E.	1	E.	1	*E.*	2
3	W.	23	W.	30	W.	34	W.	42	W.	41	W.	37	N.	21	N.	17	NE.	17	NE.	21	NE.	26	NE.	28	NE.	33
4	N.	17	N.	14	N.	14	N.	12	N.	10	N.	8	N.	7	N.	7	NE.	7	N.	11	NE.	16	NE.	16	NE.	13
5	SE.	7	S.	6	SW.	6	SW.	11	SW.	13	SW.	14	W.	10	W.	8	SW.	9	SW.	8	SW.	9	W.	13	W.	16
6	N.	33	NW	40	NW.	30	*N.*	27	NW.	32	*W.*	39	W.	50	NW.	30	W.	38	*W.*	24	NW.	47	NW.	43	NW.	39
7	N.	10	NW.	16	*W.*	19	NW.	20	*W.*	19	*NW.*	18	NW.	20	NW.	25	NW.	34	NW.	36	NW.	30	N.	26	N.	22
8	W.	36	W.	35	W.	33	W.	35	W.	44	W.	35	NW.	20	NW.	23	N.	22	NW.	22	NE.	15	NE.	17	NE.	18
9	NE.	18	*NE.*	20	N.	25	*NW.*	29	NE.	28	NE.	29	NE.	29	NE.	27	NE.	27	NE.	28	NE.	31	NE.	29	NE.	33
10	NE.	23	N.	24	N.	18	NE.	15	*N.*	15	*N.*	24	NW.	31	NW.	33	NW.	25	NW.	28	*W.*	30	*W.*	39	NW.	40
11	NE.	26	NE.	13	NE.	11	NE.	9	NE.	7	N.	3	N.	5	*NW.*	6	W.	9	W.	12	W.	16	W.	18	W.	30
12	N.	17	*W.*	11	NW.	8	W.	16	NW.	19	NW.	22	N.	27	N.	23	NW.	29	NW.	28	NW.	30	NW.	38	NW.	45
13	NW.	55	NW.	47	N.	21	NW	34	W.	46	NW.	34	NW.	27	NW.	28	N.	32	NE.	33	NE.	28	NE.	26	N.	25
14	*NE.*	26	NW.	30	NW.	32	NW.	38	NW.	47	W.	62	NW.	56	NW.	52	W.	69	W.	76	W.	84	W.	84	W.	80
15	SW.	32	SW.	40	SW.	32	SW.	29	SW.	24	*W.*	20	*W.*	22	W.	21	W.	40	W.	51	W.	49	*W.*	57	SW.	43
16	SW.	18	SW.	15	SW.	14	SW.	16	SW.	13	SW.	12	SW.	11	*W.*	11	W.	14	SW.	18	W.	7	W.	40	W.	26
17	N.	38	NE.	35	NE	35	*N.*	36	N.	40	*NW.*	60	N.	72	NE.	59	NE.	57	NE.	59	NE.	56	NE.	53	*N.*	51
18	*N.*	*67	*N.*	*72	NW.	*73	NW.	*70	*N.*	*69	N.	*70	NW.	*68	NW.	*67	NW.	59	NW.	53	N.	53	N.	54	N.	59
19	NE.	18	N.	33	N.	43	N.	31	N.	38	NW.	46	NW.	55	NW.	71	NW.	68	*N.*	60	NW.	54	NW.	50	NW.	51
20	W.	79	*NW.*	68	W.	78	NW.	67	NW.	63	NW.	70	NW.	63	NW.	62	NW.	60	NW.	56	NW.	54	NW.	55	N.	35
21	W.	36	W.	32	W.	34	W.	32	W.	31	*W.*	34	NW.	38	NW.	41	NW.	45	NW.	39	NW.	35	NW.	36	NW.	36
22	NW.	52	NW.	49	NW.	46	NW.	45	NW.	40	NW.	40	N.	32	N.	15	NE.	8	NE.	11	NW.	16	W.	20	NW.	24
23	NW.	20	NW.	21	NW.	24	W.	31	W.	28	NW.	28	N.	22	N.	14	N.	14	N.	19	*NW.*	19	NW.	26	NW.	25
24	W.	51	W.	54	W.	51	SW.	41	SW.	38	SW.	37	SW.	62	SW.	71	SW.	74	SW.	71	SW.	62	SW.	55	SW.	55
25	W.	57	W.	67	W.	61	W.	58	NW.	69	NW.	59	NW.	53	NW.	52	NW.	57	W.	66	W.	76	W.	66	W.	67
26	SW.	57	W.	64	SW.	67	SW.	58	SW.	48	SW.	36	SW.	29	SW.	28	SW.	27	SW.	25	S.	25	S.	21	S.	26
27	W.	56	W.	64	W.	64	W.	68	W.	72	W.	74	W.	72	W.	72	W.	74	W.	78	W.	82	W.	81	W.	85
28	W.	77	W.	75	W.	70	W.	72	W.	71	W.	72	W.	66	W.	56	W.	58	W.	62	W.	76	W.	78	W.	70
29	W.	65	W.	58	W.	61	W.	62	W.	64	W.	61	W.	68	W.	64	W.	59	W.	50	W.	52	W.	53	W.	52
30	W.	59	W.	55	W.	54	W.	52	W.	50	W.	49	W.	45	W.	36	W.	38	W.	41	W.	43	W.	43	W.	46
Mean	W.	36.2	W.	36.8	W.	35.8	W.	35.5	W.	36.3	NW.	36.8	NW.	36.3	NW.	34.4	W.	36.0	W. NW.	36.5	W.	37.7	W.	39.2	W.	39.1

* Anemometer self-register not working; hourly movements interpolated.

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [November, 1892.

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	12	12	12	12	12	11	11	*11*	10	10	*10*	11	11	*12*	12	11	*10*	10	8	*8*	8	8	8	8	10.3	12	**8**
2	8	7	7	6	6	5	4	*4*	4	5	*11*	12	13	*12*	11	10	*9*	9	8	*6*	6	6	6	6	7.5	15	**3**
3	7	7	7	8	8	8	10	*10*	10	11	*15*	15	19	*19*	19	19	*18*	17	17	*16*	16	17	16	16	13.5	20	**3**
4	15	14	14	14	15	16	16	*16*	17	18	*20*	22	21	*21*	21	22	*22*	22	20	*20*	20	20	21	23	18.8	22	**11**
5	23	24	24	24	23	21	21	*21*	25	28	*27*	26	26	*28*	27	26	*24*	23	21	*22*	21	21	21	20	23.6	28	**20**
6	19	19	20	20	17	14	12	*12*	12	10	*3*	2	1	*2*	4	4	*3*	2	2	*—2*	—3	—3	—3	—4	6.8	12	**—2**
7	— 4	—5	—5	—5	—6	—6	—6	*—6*	—7	—7	*—1*	—1	1	*0*	1	2	*2*	1	0	*—1*	—1	—1	0	0	—2.3	3	**—8**
8	0	0	0	0	—1	—1	—2	*—2*	—2	—2	*—1*	—3	—3	*—2*	—1	0	*0*	0	0	*0*	—1	—2	—4	—4	—1.3	0	**—4**
9	—4	—5	—6	—7	—6	—6	—7	*—8*	—7	—4	*—1*	1	3	*5*	8	9	*10*	11	12	*15*	14	13	13	13	2.8	16	**—8**
10	13	15	16	18	17	17	16	*18*	18	18	*16*	17	19	*18*	18	19	*20*	19	18	*17*	16	18	16	19	17.3	21	**13**
11	18	10	17	17	17	18	17	*17*	15	17	*18*	19	18	*19*	20	20	*20*	20	19	*20*	21	21	22	22	18.7	22	**14**
12	21	24	23	22	22	23	23	*24*	*25*	24	*23*	*26*	*25*	*22*	*24*	*24*	*24*	*22*	*21*	*19*	19	18	17	16	22.1	28	**18**
13	16	15	14	13	11	11	5	*1*	—1	3	*9*	2	4	*4*	5	4	*6*	8	8	*9*	9	9	9	12	7.5	11	**0**
14	11	12	13	11	11	13	15	*16*	16	17	*18*	*20*	*20*	*20*	*21*	*21*	*22*	*18*	17	*16*	15	14	12	11	15.8	22	**9**
15	10	8	7	7	5	5	3	*2*	3	5	*2*	4	7	*6*	5	4	*3*	3	3	*2*	2	2	2	2	4.2	8	**0**
16	2	1	0	0	0	0	1	*2*	2	4	*2*	2	1	*1*	—4	—5	*—10*	—12	—12	*—13*	—13	—14	—15	—15	—4.0	4	**—13**
17	—15	—16	—17	—18	—18	—18	—15	*—12*	—7	—5	*—1*	—4	—8	*—3*	—1	4	*5*	5	5	*6*	7	7	7	7	—4.4	9	**—20**
18	8	9	9	9	9	8	8	*8*	9	10	*16*	16	14	*15*	18	16	*17*	18	15	*14*	*18*	*19*	19	18	13.3	24	**5**
19	16	17	18	17	17	17	17	*17*	*19*	*20*	*21*	*22*	*21*	*20*	*21*	*21*	*21*	*19*	*19*	*21*	*18*	*16*	16	15	18.6	24	**12**
20	14	14	14	14	13	12	12	*12*	*13*	*12*	*12*	*14*	*14*	*15*	*16*	*17*	*17*	*15*	*11*	*13*	*12*	*11*	11	10	13.2	22	**17**
21	11	12	15	14	13	14	16	*16*	*18*	*18*	*18*	*19*	*19*	*20*	*21*	*20*	*19*	*19*	*19*	*17*	17	17	17	16	16.8	22	**11**
22	16	17	18	16	17	18	19	*19*	*20*	*20*	*16*	*17*	*18*	*17*	*18*	*18*	*18*	*17*	*17*	*16*	*16*	*16*	16	15	17.4	19	**15**
23	15	15	16	15	16	16	18	*19*	*21*	*21*	*21*	*22*	*23*	*21*	*21*	*20*	*20*	*20*	*19*	*18*	18	18	18	17	18.6	22	**14**
24	17	18	19	18	17	15	15	*15*	15	16	*16*	16	16	*15*	16	16	*16*	14	12	*12*	10	3	—4	—8	13.1	17	**12**
25	—9	—11	—11	—11	—13	—14	—14	*—14*	—13	—12	*—4*	—2	0	*2*	5	6	*7*	6	4	*4*	2	1	1	0	—3.8	7	**—14**
26	2	2	2	1	2	3	3	*3*	2	1	*3*	4	5	*5*	5	5	*5*	4	2	*2*	1	0	—1	—3	2.4	6	**1**
27	—4	—5	—4	—4	—4	—4	—3	*—2*	0	2	*4*	4	5	*6*	7	9	*10*	10	8	*7*	8	8	8	8	3.1	9	**—5**
28	9	9	9	9	9	8	8	*8*	7	9	*9*	9	10	*11*	12	13	*14*	14	14	*15*	14	14	14	12	10.8	15	**7**
29	12	12	11	12	14	15	15	*14*	*14*	*15*	*15*	*17*	*18*	*18*	*19*	*19*	*18*	*15*	*15*	*15*	*15*	15	15	15	15.1	19	**10**
30	15	16	15	16	15	15	15	*16*	18	17	*17*	*19*	*19*	*20*	19	*19*	*19*	*18*	*17*	*16*	16	16	15	15	16.8	20	**14**
Mean.	9.1	9.1	9.2	9.0	8.6	8.5	8.4	8.6	9.2	10.0	10.9	11.6	12.0	12.3	12.9	13.1	12.9	12.2	11.3	11.0	10.7	10.3	9.8	9.4	10.4	16.0	**4.6**

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[November, 1892.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11h–Mid.		Max.	Direction.
1	E.	22	E.	19	E.	14	E.	9	SE.	10	SE.	11	E.	17	E.	18	E.	16	E.	16	E.	13	26	E.
2	N.	3	N.	8	N.	9	N.	9	N.	7	W.	14	W.	15	W.	15	W.	15	W.	13	W.	16	17	W.
3	NE.	30	NE.	27	NE.	29	NE.	24	NE.	20	NE.	23	NE.	22	NE.	17	N.	20	NE.	25	N.	21	50	W.
4	NE.	15	*N.*	13	NE.	14	N.	13	N.	13	N.	15	NE.	12	NE.	14	NE.	12	*E.*	8	E.	6	20	N.
5	SW.	19	SW.	21	*W.*	20	W.	22	W.	24	*W.*	31	NW.	26	NW.	30	NW.	34	*N.*	30	NE.	25	38	NW.
6	NW.	40	NW.	24	N.	20	N.	12	N.	8	N.	10	N.	17	N.	25	N.	28	N.	22	N.	17	64	W.
7	N.	23	NW.	32	NW.	39	NW.	42	NW	39	*NW.*	38	W.	41	W.	45	W.	42	W.	42	W.	38	51	NW.
8	NE.	15	NE.	15	NE.	11	*N.*	10	NE.	9	N.	16	N.	21	N.	23	NE.	23	NE.	22	NE.	18	39	W.
9	NE.	40	NE.	47	NE.	42	NE.	39	NE.	36	NE.	35	NE.	38	NE.	37	NE.	31	NE.	28	NE.	26	52	NE.
10	NW.	38	W.	44	NW.	44	NW.	47	NW.	44	NW.	43	NW.	39	NW.	40	NW.	54	NW.	47	NE.	20	66	NW.
11	W.	32	W.	40	W.	41	W.	41	W.	40	N.	31	N.	28	N.	23	NE.	21	NE.	18	N.	17	44	W.
12	NW.	41	W.	54	*NW.*	65	W.	57	W.	58	W.	61	W.	63	W.	62	W.	68	NW.	59	NW.	58	76	W.
13	N.	31	N.	34	NW.	43	NW.	45	N.	42	NE.	33	NE.	33	NE.	36	NE.	33	NE.	24	NE.	20	58	W.
14	W.	84	W.	64	W.	61	*SW.*	42	SW.	35	SW.	42	SW.	38	SW.	40	SW.	39	SW.	41	W.	38	99	W.
15	SW.	34	SW.	31	SW.	37	SW.	41	SW.	41	SW.	41	SW.	28	SW.	28	SW.	28	SW.	27	SW.	25	64	W.
16	NW.	19	NW.	29	NW.	35	NW.	34	N.	35	N.	54	N.	67	N.	48	*NW.*	57	N.	40		75	N.
17	N.	57	N.	74	NW.	78	*N.*	70	NW.	73	NW.	69	N.	71	N.	72	N.	66	N.	76	*NW.*	63	88	NW.
18	N.	63	NW.	61	NW.	63	*N.*	49	N.	49	N.	45	NW.	44	NW.	*48	N.	*32	NE.	20	NE.	30	73	NW.
19	NW.	48	NW.	43	NW.	50	NW.	47	NW.	47	NW.	47	NW.	42	W.	64	W.	74	W.	64	W.	71	84	W.
20	NW.	23	*NW.*	32	W.	13	W.	30	W.	29	*SW.*	38	W.	39	W.	45	W.	47	W.	41	W.	39	90	W.
21	NW.	35	W.	40	W.	48	W.	48	W.	40	NW.	36	W.	36	W.	43	W.	45	W.	43	W.	52	54	W.
22	NW.	26	W.	17	W.	18	W.	19	W.	22	W.	25	W.	34	W.	36	W.	35	W.	35	W.	32	54	W.
23	W.	27	W.	41	W.	41	W.	41	W.	45	W.	39	W.	50	W.	54	W.	51	W.	48	SW.	43	60	W.
24	SW.	60	SW.	54	SW.	55	SW.	57	SW.	54	SW.	49	W.	45	W.	56	SW.	41	W.	67	W.	66	80	W.
25	W.	55	W.	59	W.	52	W.	38	W.	36	SW.	27	SW.	25	SW.	26	SW.	34	SW.	46	SW.	47	80	W.
26	S.	21	SW.	25	SW.	29	SW.	25	SW.	24	SW.	25	SW.	23	SW.	24	SW.	22	W.	33	W.	43	72	SW.
27	W.	72	W.	60	W.	48	W.	54	W.	46	W.	44	W.	49	W.	49	W.	66	W.	70	W.	79	90	W.
28	SW.	52	W.	65	W.	69	W.	63	W.	65	W.	63	W.	61	W.	63	W.	59	W.	60	W.	67	84	W.
29	W.	45	W.	42	W.	43	W.	39	W.	46	W.	43	W.	47	W.	50	W.	54	W.	52	W.	51	72	W.
30	W.	36	W.	42	W.	43	W.	46	*SW.*	29	*SW.*	35	W.	44	W.	48	W.	47	W.	50	W.	54	60	W.
Mean.	NW.	36.7	W.	38.6	W.	38.9	W.	37.1	W.	35.5	W.	35.5	W.	36.7	W.	39.9	W.	39.5	W.	39.5	W.	37.7	.....	.....

* Anemometer self-register not working; hourly movements interpolated.

PIKES PEAK, COLO.

PRESSURE, 17 INCHES +.

NOTE.—All eye readings are printed in *italics*.

December, 1892.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.73	.74	.74	.70	.69	.68	.67	.66	.65	.66	.65	.65	.64	.63	.64	.64	.64	.60	.61	.64	.66	.67	.69	.70	.67	.74	.60
2	.71	.71	.73	.75	.75	.75	.75	.75	.76	.77	.78	.79	.77	.76	.76	.75	.74	.74	.74	.74	.73	.72	.71	.71	.74	.79	.71
3	.71	.70	.70	.70	.70	.69	.69	.69	.70	.70	.71	.71	.71	.69	.68	.67	.66	.64	.64	.64	.64	.63	.61	.59	.68	.71	.59
4	.59	.59	.56	.54	.53	.54	.55	.57	.57	.57	.57	.60	.62	.62	.61	.60	.60	.60	.58	.59	.59	.59	.59	.58	.58	.62	.53
5	.57	.54	.53	.53	.53	.52	.51	.51	.49	.48	.49	.50	.49	.49	.49	.48	.48	.48	.48	.48	.47	.45	.45	.45	.50	.57	.45
6	.44	.43	.42	.41	.40	.40	.39	.38	.38	.37	.38	.39	.37	.33	.35	.35	.35	.36	.37	.38	.37	.38	.38	.37	.38	.44	.33
7	.38	.37	.37	.35	.34	.36	.37	.38	.38	.37	.36	.36	.36	.36	.36	.36	.37	.40	.42	.45	.46	.47	.47	.47	.39	.47	.34
8	.48	.48	.48	.48	.48	.48	.46	.45	.45	.47	.47	.46	.45	.42	.40	.39	.37	.37	.36	.38	.38	.38	.38	.37	.43	.48	.36
9	.36	.35	.35	.35	.36	.34	.35	.35	.36	.37	.38	.38	.38	.38	.38	.38	.41	.42	.44	.45	.45	.42	.41	.41	.38	.45	.34
10	.41	.40	.38	.38	.39	.40	.42	.45	.45	.46	.46	.46	.44	.43	.43	.42	.42	.41	.42	.42	.42	.43	.43	.43	.42	.46	.38
11	.43	.42	.41	.39	.39	.38	.39	.40	.43	.44	.46	.46	.47	.49	.49	.49	.49	.49	.49	.53	.53	.53	.54	.53	.46	.54	.38
12	.53	.52	.52	.51	.51	.51	.50	.50	.51	.52	.52	.52	.51	.48	.47	.45	.45	.43	.42	.41	.41	.41	.41	.41	.48	.53	.41
13	.41	.40	.41	.41	.42	.42	.42	.43	.43	.43	.44	.44	.44	.41	.40	.40	.41	.41	.42	.43	.43	.44	.44	.44	.42	.44	.40
14	.44	.43	.41	.40	.39	.38	.38	.39	.40	.41	.40	.40	.40	.40	.40	.39	.40	.40	.42	.43	.43	.44	.44	.43	.41	.44	.38
15	.44	.46	.46	.46	.46	.46	.48	.48	.49	.47	.48	.49	.48	.45	.43	.42	.40	.40	.38	.37	.37	.37	.37	.36	.44	.49	.36
16	.35	.33	.34	.33	.31	.31	.32	.33	.36	.37	.37	.37	.37	.37	.37	.37	.39	.40	.41	.42	.42	.44	.45	.45	.37	.45	.31
17	.46	.45	.44	.44	.44	.44	.45	.46	.48	.49	.49	.50	.50	.50	.50	.50	.50	.50	.50	.52	.52	.52	.53	.53	.49	.53	.44
18	.54	.54	.52	.52	.51	.51	.50	.50	.50	.49	.49	.49	.48	.46	.45	.43	.43	.42	.42	.42	.42	.42	.43	.43	.47	.54	.42
19	.42	.41	.40	.38	.37	.36	.36	.36	.36	.38	.38	.38	.37	.35	.33	.32	.33	.32	.32	.32	.31	.29	.27	.28	.35	.42	.27
20	.29	.28	.28	.28	.26	.24	.24	.23	.24	.23	.24	.25	.24	.22	.22	.21	.21	.22	.23	.24	.25	.24	.25	.25	.24	.29	.21
21	.25	.24	.25	.26	.26	.28	.30	.32	.32	.31	.33	.37	.39	.40	.40	.40	.44	.44	.45	.46	.48	.46	.44	.44	.36	.48	.24
22	.44	.45	.44	.45	.44	.44	.46	.46	.46	.51	.55	.55	.55	.57	.55	.55	.57	.58	.58	.58	.58	.58	.59	.58	.52	.59	.44
23	.57	.55	.54	.55	.55	.56	.57	.59	.60	.61	.63	.64	.64	.64	.63	.66	.67	.66	.67	.67	.70	.72	.74	.74	.63	.74	.54
24	.75	.76	.77	.76	.75	.74	.73	.73	.73	.73	.68	.70	.76	.76	.76	.76	.76	.75	.75	.77	.67	.65	.62	.60	.72	.77	.60
25	.58	.57	.54	.52	.54	.52	.58	.59	.62	.63	.64	.62	.58	.58	.50	.57	.65	.66	.67	.70	.70	.70	.70	.70	.61	.70	.50
26	.70	.70	.70	.72	.73	.73	.74	.75	.78	.78	.79	.79	.77	.75	.72	.70	.66	.60	.69	.67	.67	.67	.66	.64	.71	.79	.60
27	.63	.57	.56	.56	.52	.53	.53	.55	.56	.57	.61	.61	.65	.65	.65	.64	.63	.62	.63	.64	.67	.67	.67	.67	.61	.67	*.52
28	.66	.65	.64	.63	.63	.62	.60	.62	.64	.65	.65	.65	.60	.58	.56	.55	.53	.50	.49	.50	.49	.48	.48	.46	.58	.66	.46
29	.44	.43	.40	.37	.36	.33	.33	.35	.36	.38	.38	.37	.36	.34	.33	.33	.35	.36	.37	.38	.40	.40	.41	.41	.37	.44	.33
30	.41	.41	.42	.43	.43	.45	.48	.52	.54	.54	.54	.57	.60	.62	.61	.60	.60	.60	.61	.62	.61	.65	.65	.64	.55	.65	.41
31	.63	.62	.60	.58	.57	.56	.55	.55	.56	.55	.55	.55	.52	.54	.51	.50	.52	.52	.54	.55	.54	.55	.56	.56	.55	.63	.50
Mean	.51	.50	.49	.49	.48	.48	.49	.49	.50	.51	.51	.52	.51	.51	.50	.49	.50	.49	.50	.51	.51	.51	.51	.50	.50	.56	.43

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

December, 1892.]

Day.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p. m.	
1	W.	59	SW.	53	SW.	52	*SW.*	58	W.	65	W.	64	W.	64	W.	64	W.	65	W.	69	W.	69	W.	67	W.	67
2	W.	59	W.	58	W.	53	W.	34	W.	33	SW.	32	SW.	43	SW.	42	SW.	48	W.	46	*SW.*	41	*SW.*	36	W.	42
3	W.	57	W.	55	W.	56	W.	58	W.	56	W.	57	W.	58	W.	55	W.	48	W.	44	W.	49	W.	45	W.	41
4	W.	62	W.	58	W.	61	W.	66	W.	65	W.	63	W.	61	W.	58	W.	61	W.	67	W.	70	W.	57	W.	52
5	SW.	27	SW.	39	SW.	30	SW.	29	SW.	26	SW.	*29	SW.	*26	SW.	23	SW.	21	SW.	27	SW.	37	SW.	40	SW.	39
6	S.	24	S.	20	S.	14	SW.	12	SW.	17	S.	11	S.	4	SE.	3	SE.	1	SE.	1	*NW.*	*10	N.	*15	NE.	*18
7	NW.	34	NW.	30	N.	26	NE.	25	NE.	25	NE.	22	NE.	20	NE.	13	NE.	10	NE.	14	NE.	17	NE.	16	NE.	19
8	N.	39	NE.	29	NE.	26	NE.	26	NE.	24	NE.	24	N.	33	N.	37	N.	31	NE.	28	NE.	24	NE.	20	NE.	24
9	NE.	24	NE.	21	NE.	20	NE.	19	NE.	23	*NE.*	26	NE.	17	NE.	31	NE.	31	NE.	29	NE.	29	NE.	30	NE.	26
10	NW.	52	NW.	50	NW.	54	NW.	51	NW.	42	NW.	*30	NW.	*23	NW.	*21	NW.	*20	NW.	15	W.	15	W.	20	W.	16
11	SW.	37	SW.	44	SW.	47	SW.	56	SW.	54	SW.	55	W.	56	W.	53	SW.	37	SW.	38	SW.	27	SW.	22	SW.	22
12	S.	17	S.	17	SW.	18	SW.	13	SW.	16	SW.	14	SW.	11	SW.	10	SW.	9	SW.	9	S.	6	S.	4	SW.	4
13	N.	20	N.	20	NW.	23	NW.	17	N.	12	NW.	13	W.	12	SW.	11	*SW.*	16	W.	32	W.	30	W.	31	W.	31
14	SW.	18	SW.	23	S.	24	S.	23	S.	25	S.	30	SE.	29	SE.	26	SE.	25	SE.	25	SE.	28	SE.	26	S.	22
15	W.	24	NW.	18	NW.	22	NW.	24	*NE.*	20	N.	22	N.	21	NE.	20	N.	16	N.	13	N.	9	W.	12	W.	11
16	N.	7	N.	8	*N.*	7	NE.	10	NE.	14	NE.	16	NE.	16	NE.	16	NE.	19	NE.	19	NE.	23	NE.	25	NE.	25	NE.	22
17	W.	17	W.	18	W.	24	W.	22	W.	19	W.	20	W.	22	W.	17	W.	14	*W.	12	*W.	8	W.	*6	W.	5
18	NW.	7	NW.	6	N.	5	W.	6	NW.	5	NW.	6	NW.	6	NW.	5	NW.	5	NW.	5	N.	6	NE.	14	NE.	11
19	SW.	18	SW.	21	SW.	26	SW.	24	SW.	29	W.	32	W.	26	W.	21	W.	19	NW.	17	NW.	18	W.	14	W.	31
20	W.	56	W.	44	W.	42	SW.	41	W.	41	W.	48	W.	46	W.	42	SW.	44	SW.	45	SW.	42	SW.	36	SW.	32
21	SW.	20	SW.	20	SW.	21	SW.	20	W.	22	W.	24	W.	22	W.	24	W.	33	W.	48	W.	54	W.	64	W.	69
22	W.	76	W.	57	W.	47	W.	44	W.	47	W.	48	W.	43	W.	42	W.	41	W.	32	W.	29	W.	32	W.	*59
23	W.	79	W.	82	W.	81	W.	81	W.	82	W.	76	NW.	71	NW.	65	NW.	64	NW.	64	NW.	62	NW.	58	NW.	58
24	NW.	46	NW.	44	NW.	42	NW.	44	W.	59	W.	66	W.	64	W.	69	W.	68	W.	79	W.	86	W.	76	NW.	46
25	W.	63	W.	58	W.	53	W.	55	W.	49	W.	38	NW.	22	N.	16	N.	17	N.	26	N.	23	N.	26	N.	37
26	NE.	37	NE.	35	NE.	37	NE.	39	NE.	38	NE.	31	NE.	28	NE.	25	NE.	23	NE.	21	NE.	22	NE.	15	N.	36
27	N.	27	N.	29	*W.*	31	NW.	32	NW.	38	NW.	39	NW.	31	NW.	28	NW.	23	NW.	25	N.	35	N.	26	N.	23
28	N.	16	N.	22	N.	26	NW.	24	NW.	25	NW.	33	NW.	35	NW.	35	N.	23	N.	20	*N.*	22	*N.*	20	W.	31
29	W.	28	NW.	26	NW.	24	NW.	29	NW.	43	NW.	45	NW.	52	*W.	60	W.	57	NW.	56	W.	51	W.	63	W.	60
30	NE.	8	NE.	8	NE.	10	NE.	13	NE.	26	NE.	27	NE.	27	NE.	25	NE.	27	NE.	32	NE.	25	NE.	15	NE.	10
31	NE.	13	NE.	13	NE.	20	NE.	24	NE.	33	NE.	30	NE.	33	N.	36	NW.	43	NW.	52	N.	53	N.	37	N.	42
Mean	W.	34.2	W.	33.1	W.	33.0	W.	32.9	W.	34.6	W.	34.5	W.	33.0	W.	32.1	W.	30.9	W.	32.7	W.	33.0	W.	31.2	W.	32.8

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [December, 1892.

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1.....	15	15	15	15	14	15	17	*15*	15	15	*15*	16	17	*18*	19	19	*18*	18	17	*15*	15	14	14	13	15.8	19	14
2.....	13	13	14	14	13	12	13	*12*	13	15	*16*	16	15	*16*	18	18	*16*	15	15	*14*	14	14	14	14	14.4	18	11
3.....	13	13	13	13	12	12	13	*13*	13	13	14	16	16	*16*	16	16	16	15	14	*13*	13	12	12	12	13.7	16	12
4.....	12	11	11	11	12	12	12	*11*	11	11	*12*	13	14	*14*	14	14	*13*	12	12	*11*	11	11	12	11	12.0	15	10
5.....	11	11	10*	11	10	10	10	*10*	9	7	*6*	5	7	*8*	7	6	*6*	6	3	*2*	2	2	1	1	6.7	10	2
6.....	2	2	1	0	—1	—1	—2	—*3*	—4	—4	—*4*	—5	—5	—*6*	—7	—6	—*6*	—6	—6	—*6*	—6	—6	—5	—7	—3.8	—3	—7
7.....	—7	—11	—13	—14	—14	—14	—14	—*14*	—14	—15	—*15*	—16	—16	—*16*	—16	—15	—*14*	—13	—11	—*9*	—5	—6	—6	—6	—12.2	—9	—16
8.....	—4	—3	—2	1	1	1	—2	*1*	1	2	*2*	0	—2	—*2*	—2	—3	—*4*	—5	—7	—*8*	—10	—11	—12	—13	—3.4	3	—9
9.....	—13	—13	—10	—10	—11	—11	—11	—*11*	—10	—10	—*9*	—8	—6	—*4*	—4	0	—*3*	—2	—1	*1*	1	1	—1	—1	—5.6	3	—15
10.....	—1	—2	—2	—2	—1	—2	—1	—*1*	0	0	*0*	0	0	—*1*	—1	0	—*1*	—2	—3	—*4*	—3	—2	—1	—1	—1.3	1	—4
11.....	—3	—3	—2	—1	—2	—2	—1	—*3*	—2	—2	—*1*	0	1	*4*	4	4	*3*	2	1	*0*	1	1	1	2	0.0	4	—5
12.....	1	1	1	1	3	3	3	*2*	3	*4*	*7*	9	10	*7*	8	7	*5*	4	2	—*1*	—2	—1	—1	—1	3.1	13	—1
13.....	3	1	0	0	0	—2	—3	—*2*	—5	—4	—*5*	—4	—2	—*2*	—3	—3	—*3*	—3	—1	—*6*	—6	—6	—7	—8	—3.0	0	—7
14.....	—10	—11	—12	—13	—14	—13	—14	—*14*	—15	—15	—*13*	—13	—13	—*12*	—7	—7	—*7*	—8	—14	—*12*	—12	—12	—12	—13	—11.9	—7	—14
15.....	—14	—11	—10	—9	—5	—4	—2	*0*	0	1	*4*	6	7	*7*	6	3	*0*	—3	—7	—*7*	—8	—8	—9	—9	—3.0	7	—15
16.....	—10	—10	—11	—11	—12	—12	—12	—*12*	—13	—13	—*14*	—15	—16	—*16*	—17	—17	—*18*	—18	—19	—*19*	—17	—16	—16	—16	—14.6	—9	—19
17.....	—16	—16	—16	—16	—15	—15	—15	—*14*	—14	—13	—*11*	—10	—10	—*6*	—8	—7	—*6*	—5	—4	—*4*	—4	—3	0	1	—9.5	—3	—19
18.....	2	3	4	4	4	6	8	*7*	9	9	*11*	10	11	*10*	5	5	*8*	5	5	*4*	—1	—2	—4	—4	5.0	12	—4
19.....	—4	—5	—5	—6	—7	—5	—3	—*4*	—4	—4	—*4*	—5	—5	—*5*	—5	—4	—*6*	—6	—5	—*5*	—5	—5	—4	—3	—4.8	—3	—7
20.....	—3	—3	—4	—4	—3	—4	—4	—*4*	—4	—4	—*4*	—4	—3	—*3*	—4	—4	—*4*	—5	—4	—*4*	—4	—4	—5	—6	—4.0	—3	—6
21.....	—6	—7	—7	—7	—9	—11	—11	—*12*	—12	—12	—*10*	—8	—8	—*6*	—5	—5	—*4*	—4	—4	—*3*	—3	—3	—3	—2	—6.8	—2	—14
22.....	—1	0	0	0	0	1	2	*2*	2	3	*3*	3	3	*5*	6	9	*10*	9	9	*7*	9	10	11	12	4.8	7	—5
23.....	12	11	11	12	10	9	10	*10*	12	14	*14*	14	15	*16*	15	16	*16*	16	15	*14*	14	16	17	14	13.5	17	7
24.....	14	15	16	15	15	14	14	*16*	16	14	*14*	19	20	*20*	18	18	*18*	18	16	*16*	18	18	19	19	16.8	21	11
25.....	18	18	18	17	16	16	15	*14*	13	13	*13*	10	7	*6*	5	3	*3*	2	1	*1*	0	0	4	4	9.0	14	0
26.....	4	4	5	8	8	8	9	*11*	11	13	*17*	12	14	*18*	14	16	*16*	15	15	*14*	15	15	14	13	12.0	18	0
27.....	13	11	9	9	8	8	7	*8*	6	6	*6*	6	7	*8*	8	7	*6*	5	3	*3*	2	1	1	1	6.2	8	3
28.....	0	0	0	0	2	2	3	*6*	6	7	*8*	8	8	*8*	8	8	*8*	7	5	*5*	4	3	3	3	4.7	8	0
29.....	4	4	3	2	1	0	—1	—*1*	0	1	*3*	2	3	*4*	4	4	*4*	3	2	*2*	1	1	—5	—6	1.5	4	—1
30.....	—6	—6	—8	—10	—10	—10	—10	—*8*	—7	—7	—*5*	2	—1	—*1*	—1	—2	—*2*	—2	—1	*0*	2	2	3	2	—3.6	0	—11
31.....	1	1	1	2	1	4	3	*2*	4	3	*2*	0	—1	*0*	0	—2	—*2*	—3	—3	—*2*	—2	—2	0	1	0.3	5	—4
Mean..	1.3	1.1	1.0	1.0	0.8	0.9	1.1	1.2	1.3	1.5	2.3	2.5	2.8	3.4	3.1	3.2	2.9	2.3	1.5	1.1	1.1	1.1	1.1	0.9	1.7	5.9	—3.6

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[December, 1892.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.		Direction.
1.....	W.	61	W.	57	W.	56	W.	67	W.	78	W.	80	W.	77	W.	78	W.	69	W.	61	W.	58	84		W.
2.....	W.	38	W.	39	W.	43	W.	40	W.	39	W.	43	W.	48	W.	50	W.	55	W.	60	W.	58	68		W.
3.....	W.	36	W.	43	W.	*40	W.	*45	W.	*44	W.	*43	W.	*43	W.	45	W.	48	W.	62	W.	67	72		W.
4.....	SW.	22	SW.	23	S.	19	S.	17	SW.	25	SW.	37	SW.	18	SW.	19	SW.	19	SW.	23	SW.	20	78		W.
5.....	SW.	40	S.	23	SW.	26	SW.	25	SW.	22	SW.	17	S.	15	S.	19	S.	16	SE.	17	S.	15	48		SW.
6.....	NE.	*20	NE.	*24	NE.	*30	NE.	31	NE.	30	NE.	30	NE.	30	NE.	32	NE.	30	NE.	29	N.	27	37		NE.
7.....	NE.	22	N.	22	NE.	24	NE.	22	NE.	22	N.	20	N.	19	N.	19	NW.	22	NE.	27	N.	31	36		NW.
8.....	N.	19	*NW.*	20	W.	30	W.	24	NW.	10	NW.	16	N.	19	NW.	24	N.	15	NE.	12	NE.	16	41		N.
9.....	NE.	33	NE.	37	NE.	39	NE.	39	NE.	40	N.	39	N.	33	N.	47	N.	55	NW.	62	NW.	57	71		NW.
10.....	W.	28	SW.	23	SW.	21	SW.	20	SW.	26	SW.	29	SW.	28	SW.	31	SW.	31	SW.	33	SW.	34	60		N.
11.....	SW.	15	S.	14	*SW.*	12	S.	9	SW.	11	S.	12	SW.	13	SW.	10	SW.	13	SW.	13	S.	16	60		SW.
12.....	W.	3	W.	8	W.	10	W.	17	W.	21	W.	28	W.	32	W.	37	W.	35	W.	29	W.	19	40		W.
13.....	W.	36	*W.*	38	SW.	22	SW.	22	SW.	27	SW.	21	SW.	16	SW.	14	SW.	15	SW.	17	SW.	15	42		W.
14.....	S.	19	SW.	20	SW.	26	SW.	24	W.	28	*W.*	21	NW.	15	NW.	22	NW.	21	W.	33	W.	40	45		W.
15.....	NW.	8	SW.	8	SW.	13	W.	11	SW.	5	W.	7	NW.	7	N.	9	*N.*	7	NE.	5	N.	5	33		W.
16.....	NE.	23	NE.	20	N.	19	N.	17	N.	18	NW.	15	NW.	10	NW.	13	NW.	10	NW.	9	W.	11	30		NE.
17.....	SW.	5	*S.*	9	W.	11	W.	13	W.	19	W.	20	*N.*	13	W.	14	W.	13	W.	9	W.	6	26		W.
18.....	NE.	13	NE.	13	NE.	12	N.	8	N.	11	N.	8	NW.	6	W.	9	*NE.*	4	W.	6	W.	11	15		NE.
19.....	W.	37	W.	52	W.	61	W.	62	NW.	51	NW.	54	W.	64	W.	63	W.	64	W.	71	W.	72	76		W.
20.....	SW.	31	SW.	28	SW.	29	SW.	28	SW.	26	SW.	23	SW.	21	SW.	20	SW.	23	SW.	20	SW.	20	64		W.
21.....	W.	64	W.	62	W.	63	W.	57	W.	63	W.	60	W.	66	SW.	62	W.	66	W.	73	W.	79	85		W.
22.....	*N.*	*66	*N.*	*65	W.	76	W.	74	W.	74	W.	86	W.	79	W.	81	W.	84	W.	82	W.	81	94		W.
23.....	NW.	60	NW.	58	NW.	53	NW.	50	NW.	62	NW.	59	NW.	60	NW.	60	NW.	61	NW.	57	NW.	51	90		W.
24.....	NW.	40	NW.	33	NW.	41	W.	33	NW.	48	W.	*56	W.	63	W.	76	W.	79	W.	80	W.	70	92		W.
25.....	NW.	39	NW.	46	NW.	46	N.	37	N.	26	N.	27	N.	22	N.	20	N.	23	NE.	32	NE.	37	66		W.
26.....	NE.	25	N.	47	NW.	58	NW.	72	NW.	77	N.	57	N.	43	N.	40	*W.*	35	N.	35	N.	31	81		NW.
27.....	NE.	15	NE.	12	N.	14	NW.	21	NW.	37	NW.	49	NW.	48	W.	34	N.	27	N.	25	NE.	17	55		NW.
28.....	W.	40	W.	42	W.	47	W.	55	W.	65	W.	68	W.	62	W.	57	W.	45	W.	43	W.	32	70		W.
29.....	W.	60	W.	56	W.	59	W.	49	W.	37	W.	28	W.	18	W.	14	SE.	4	NE.	7	NE.	9	74		W.
30.....	NE.	7	NE.	8	NE.	16	NE.	21	NE.	26	NE.	29	NE.	25	NE.	25	NE.	25	NE.	21	NE.	14	36		NE.
31.....	NW.	36	NE.	22	N.	27	NE.	26	NE.	30	NE.	36	NE.	36	NE.	40	NE.	38	NE.	39	NE.	39	63		N.
Mean..	W.	31.0	W.	31.2	W.	33.6	W.	33.4	W.	35.5	W.	36.1	W.	33.8	W.	35.0	W.	33.9	W.	35.2	W.	34.1			

* Anemometer self-register not working; hourly movements interpolated.

PIKES PEAK, COLO.

PRESSURE, 17 INCHES +.

NOTE—All eye readings are printed in *italics*.

January, 1893.] [Seventy-fifth

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean	Max.	Min.
1	.56	.56	.57	.58	.60	.59	.61	.63	.65	.66	.66	.67	.68	.68	.67	.67	.66	.65	.63	.62	.60	.57	.56	.56	.62	.68	.56
2	.57	.59	.58	.58	.59	.58	.60	.64	.64	.64	.67	.66	.67	.67	.68	.69	.70	.70	.70	.71	.72	.71	.71	.70	.65	.72	.57
3	.70	.70	.71	.70	.70	.68	.67	.71	.73	.73	.73	.74	.73	.73	.73	.74	.73	.74	.74	.74	.75	.76	.76	.77	.73	.77	.67
4	.77	.77	.78	.78	.79	.79	.80	.82	.84	.85	.85	.85	.85	.84	.84	.85	.85	.85	.85	.87	.86	.86	.85	.86	.83	.87	.77
5	.85	.85	.84	.83	.83	.83	.83	.84	.86	.87	.87	.88	.86	.84	.83	.84	.85	.85	.84	.84	.85	.84	.82	.80	.84	.88	.80
6	.79	.78	.77	.75	.73	.68	.69	.72	.73	.75	.77	.77	.76	.74	.75	.75	.74	.73	.72	.73	.72	.73	.74	.74	.74	.79	.68
7	.74	.73	.72	.72	.72	.71	.71	.72	.73	.75	.76	.76	.76	.74	.75	.75	.77	.77	.79	.81	.82	.82	.81	.81	.76	.82	.71
8	.80	.80	.78	.78	.79	.78	.77	.78	.78	.80	.80	.80	.78	.76	.76	.75	.75	.75	.76	.77	.77	.79	.78	.78	.78	.80	.75
9	.77	.76	.76	.74	.74	.71	.70	.71	.72	.72	.74	.74	.73	.72	.72	.72	.73	.72	.71	.70	.70	.70	.69	.69	.72	.77	.69
10	.68	.68	.67	.66	.65	.64	.63	.65	.64	.63	.65	.65	.57	.48	.47	.47	.42	.44	.36	.35	.33	.31	.34	.35	.53	.68	.31
11	.38	.35	.37	.36	.32	.28	.23	.27	.37	.38	.40	.42	.42	.42	.43	.44	.45	.45	.46	.46	.48	.49	.50	.48	.40	.50	.27
12	.47	.45	.43	.45	.47	.48	.48	.49	.53	.56	.60	.62	.62	.60	.59	.59	.60	.61	.60	.62	.61	.61	.60	.58	.55	.62	.43
13	.58	.57	.56	.51	.47	.45	.43	.46	.45	.47	.48	.45	.42	.40	.39	.37	.37	.35	.32	.32	.30	.30	.32	.33	.42	.58	.30
14	.31	.31	.32	.31	.31	.29	.31	.31	.31	.32	.37	.39	.43	.42	.43	.44	.44	.48	.48	.48	.48	.47	.46	.45	.39	.48	.29
15	.44	.44	.45	.46	.46	.47	.47	.48	.49	.49	.49	.49	.49	.49	.48	.48	.49	.51	.51	.52	.53	.53	.54	.55	.49	.55	.44
16	.55	.55	.55	.54	.55	.55	.55	.54	.54	.54	.55	.55	.54	.52	.52	.52	.52	.52	.51	.50	.50	.49	.49	.49	.53	.55	.49
17	.47	.45	.44	.44	.44	.43	.43	.44	.46	.49	.48	.51	.51	.48	.47	.47	.47	.47	.47	.47	.48	.48	.49	.49	.47	.51	.43
18	.49	.48	.48	.48	.48	.49	.49	.49	.53	.54	.54	.55	.53	.52	.51	.52	.52	.53	.51	.51	.50	.50	.50	.50	.51	.55	.48
19	.50	.49	.49	.49	.49	.49	.49	.50	.51	.51	.52	.52	.54	.54	.53	.52	.53	.54	.55	.58	.58	.58	.59	.59	.53	.59	.49
20	.59	.57	.57	.58	.57	.56	.55	.58	.60	.62	.62	.62	.62	.62	.61	.61	.61	.61	.62	.64	.65	.67	.67	.68	.61	.68	.55
21	.68	.68	.68	.67	.68	.68	.69	.69	.69	.69	.70	.72	.73	.72	.72	.72	.72	.72	.73	.74	.75	.76	.76	.77	.71	.77	.67
22	.77	.77	.77	.77	.77	.77	.78	.78	.80	.79	.80	.80	.80	.79	.79	.78	.77	.76	.76	.77	.77	.77	.78	.77	.78	.80	.76
23	.77	.77	.77	.77	.77	.78	.78	.77	.75	.75	.78	.79	.79	.78	.78	.77	.76	.75	.75	.75	.75	.73	.72	.72	.76	.79	.72
24	.71	.70	.70	.69	.68	.68	.68	.69	.69	.69	.70	.71	.70	.68	.67	.66	.66	.64	.63	.62	.63	.63	.62	.60	.67	.71	.60
25	.58	.55	.54	.51	.53	.54	.55	.55	.56	.56	.57	.57	.58	.58	.57	.56	.57	.56	.57	.55	.60	.58	.56	.54	.56	.60	.53
26	.52	.51	.50	.50	.49	.48	.47	.48	.49	.50	.50	.50	.50	.50	.50	.50	.51	.51	.49	.48	.50	.50	.48	.45	.49	.52	.45
27	.43	.42	.40	.38	.37	.37	.36	.36	.37	.33	.31	.38	.37	.37	.33	.33	.32	.32	.34	.23	.33	.33	.33	.32	.35	.43	.31
28	.31	.30	.30	.28	.28	.26	.26	.27	.29	.31	.34	.36	.38	.39	.39	.40	.42	.42	.44	.46	.46	.46	.46	.46	.36	.46	.26
29	.46	.46	.46	.46	.46	.46	.45	.45	.46	.45	.46	.47	.46	.44	.42	.41	.40	.41	.42	.45	.45	.48	.50	.50	.45	.50	.40
30	.50	.51	.50	.51	.52	.50	.52	.54	.55	.56	.56	.56	.56	.56	.54	.53	.53	.49	.48	.47	.45	.45	.38	.35	.50	.56	.35
31	.31	.30	.26	.27	.25	.23	.22	.24	.27	.29	.28	.22	.33	.34	.33	.34	.36	.37	.38	.40	.40	.41	.41	.40	.32	.41	.22
Mean	.58	.58	.57	.57	.56	.56	.56	.57	.58	.59	.60	.61	.60	.59	.59	.59	.59	.59	.58	.59	.59	.59	.59	.58	.58	.64	.52

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

January, 1893.]

Day.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p. m.	
1	NE.	46	NE.	43	NE.	36	NE.	34	NE.	33	NE.	35	NE.	38	NE.	34	NE.	34	NE.	34	NE.	34	NE.	32	NE.	29
2	NE.	58	NE.	35	N.	32	N.	34	N.	39	NE.	33	NE.	29	NE.	24	NE.	30	NE.	34	NE.	31	NE.	34	NE.	35
3	NE.	26	NE.	30	NE.	29	NE.	30	NE.	33	NE.	35	NE.	38	NE.	41	NE.	40	NE.	41	NE.	40	NE.	42	NE.	42
4	NE.	28	NE.	27	NE.	29	NE.	27	NE.	24	NE.	21	NE.	19	NE.	12	NE.	15	NE.	15	NE.	13	NE.	13	NE.	3
5	W.	16	NW.	21	NW.	25	NW.	13	NE.	13	NE.	14	N.	15	NE.	16	NE.	14	NE.	11	NE.	10	NE.	11	NE.	6
6	NE.	19	NE.	19	NE.	22	NE.	26	NE.	34	NW.	48	*N.*	41	NE.	27	NE.	23	NE.	19	NE.	15	NE.	24	NE.	26
7	NE.	20	NE.	25	NE.	30	NE.	23	NE.	27	NE.	28	NE.	32	NE.	29	NE.	28	NE.	23	NE.	29	NE.	34	N.	34
8	NE.	20	NE.	20	NE.	26	NE.	27	NE.	30	NE.	34	N.	44	N.	42	*N.*	39	NE.	30	NE.	30	NE.	28	NE.	31
9	NE.	26	NE.	28	NE.	31	NE.	33	NE.	39	NE.	43	N.	55	N.	50	NE.	30	NE.	26	NE.	32	NE.	29	NE.	27
10	NE.	33	NE.	33	NE.	32	NE.	30	NE.	36	NE.	40	NE.	41	NE.	39	NE.	41	NW.	57	NW.	55	NW.	46	*W.*	49
11	NW.	41	NW.	30	NW.	33	NW.	24	NW.	43	NW.	30	NW.	55	NW.	61	NW.	44	NW.	36	NW.	36	NW.	31	NW.	26
12	N.	47	N.	54	*NE.*	47	NE.	46	NE.	48	NE.	46	NE.	48	NE.	49	NE.	46	NE.	46	NE.	43	NE.	38	NE.	35
13	N.	46	N.	47	N.	47	NW.	57	NW.	68	NW.	71	NW.	75	NW.	65	NW.	61	NW.	61	NW.	56	NW.	71	W.	71
14	NW.	28	NW.	23	NW.	21	NW.	23	NW.	25	NW.	28	NW.	24	NW.	23	NW.	28	NW.	27	NW.	25	NW.	36	NW.	32
15	W.	46	W.	43	NW.	32	*W.*	29	NW.	27	NW.	22	NW.	22	NW.	18	NW.	22	NW.	18	NW.	20	NW.	21	NW.	23
16	NE.	23	NE.	19	NE.	17	NE.	16	NE.	14	NE.	13	NE.	12	*NW.*	10	NW.	9	*W.*	10	W.	14	W.	16	W.	19
17	W.	15	W.	23	W.	28	NW.	16	*NW.*	10	N.	12	*N.*	13	NE.	12	NE.	11	NE.	11	N.	12	*NE.*	4	SW.	7
18	NE.	22	N.	19	N.	19	N.	22	N.	20	N.	19	N.	18	NE.	18	NE.	18	NE.	18	*N.*	13	NE.	11	NE.	9
19	NW.	23	NW.	23	NW.	21	NW.	21	NW.	24	*NE.*	18	*N.*	20	N.	22	N.	19	N.	14	NW.	16	NW.	16	*NE.*	9
20	W.	27	W.	26	W.	26	NW.	19	NW.	18	NW.	18	NW.	20	NW.	16	N.	12	N.	11	N.	5	NE.	4	*N.*	3
21	N.	9	NW.	9	*NW.*	10	NW.	13	NW.	13	NW.	18	NW.	20	NW.	21	NW.	23	NW.	28	NW.	28	NW.	20	NE.	8
22	*N.*	8	NW.	10	NW.	10	N.	11	N.	8	NW.	12	W.	16	W.	21	NW.	16	*NW.*	20	N.	12	NE.	10	NE.	14
23	NE.	13	NE.	10	*NE.*	11	NW.	12	NW.	13	NW.	10	N.	7	N.	7	N.	8	N.	10	NE.	8	NE.	8	NE.	5
24	NW.	27	*NW.*	22	*NE.*	17	W.	19	N.	22	NE.	18	NE.	20	NE.	16	NE.	13	*N.*	15	NW.	18	NW.	13	NE.	9
25	W.	43	W.	53	W.	59	W.	62	W.	62	W.	53	W.	48	W.	52	W.	49	W.	44	W.	48	W.	53	W.	54
26	W.	58	W.	65	W.	64	W.	64	W.	66	W.	67	W.	70	W.	68	W.	70	W.	67	W.	69	W.	72	W.	75
27	W.	81	W.	81	W.	78	W.	80	W.	85	W.	85	W.	78	W.	78	W.	80	W.	80	W.	65	SW.	48	SW.	39
28	SW.	30	SW.	26	SW.	20	SW.	16	S.	11	S.	13	SW.	19	SW.	7	W.	24	W.	38	W.	30	W.	22	W.	21
29	SW.	37	SW.	34	SW.	37	SW.	37	SW.	40	SW.	39	SW.	44	SW.	43	SW.	45	SW.	50	SW.	43	SW.	43	SW.	46
30	SW.	21	SW.	24	SW.	24	SW.	24	SW.	28	SW.	49	SW.	54	SW.	49	SW.	45	SW.	43	SW.	39	SW.	35	SW.	57
31	*W.*	23	W.	19	*SW.*	18	*S.*	16	*SW.*	13	*S.*	15	SW.	17	SW.	15	SW.	27	SW.	24	SW.	31	SW.	25	SW.	44
Mean	NE.	31.0	NE.	30.4	NE.	30.0	NE. NW.	29.2	NE.	31.2	NE.	32.5	NE.	33.6	NE.	31.8	NE.	31.1	NE.	31.0	NE.	29.7	NE.	28.7	NE.	28.6

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [January, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	4	6	7	7	11	12	11	*12*	12	13	*13*	14	14	*14*	14	14	*14*	13	12	*11*	10	12	11	10	11.3	15	—3
2	9	10	9	9	8	12	9	*9*	7	5	*6*	6	7	*8*	9	8	*8*	7	9	7	7	10	12	13	8.5	11	5
3	13	11	12	13	14	14	16	*17*	17	19	*20*	20	20	*20*	20	20	*20*	20	21	*21*	21	21	21	21	18.0	21	7
4	21	21	22	22	22	22	23	*25*	23	23	*24*	24	26	*25*	24	24	*25*	23	21	*20*	20	18	17	19	22.2	28	20
5	19	19	17	17	15	14	14	*14*	14	15	*17*	17	18	*18*	18	18	*18*	17	17	*17*	16	15	15	17	16.5	19	14
6	17	16	17	16	16	15	16	*16*	17	17	*17*	20	19	*18*	17	16	*13*	11	9	7	5	5	3	2	13.5	21	7
7	3	3	1	3	3	2	1	*0*	0	—1	*1*	2	1	*1*	2	4	*4*	5	4	*4*	5	5	5	7	2.7	5	—1
8	8	8	9	9	10	12	11	*11*	14	17	*18*	18	19	*18*	19	18	*20*	19	20	*21*	20	20	20	20	15.8	22	4
9	19	19	18	16	14	14	13	*12*	13	15	*18*	18	18	*18*	19	16	*15*	15	16	*15*	15	15	15	15	15.9	18	11
10	16	16	16	18	18	18	17	*17*	17	16	*17*	15	15	*15*	15	15	*16*	15	12	*11*	10	9	8	6	14.5	18	11
11	3	1	0	—4	—6	—7	—7	—7	—6	—7	—6	—6	—4	—5	—4	—5	—5	—6	—8	—9	—9	—10	—11	—12	—5.8	—5	—9
12	—13	—12	—11	—10	—7	—6	—5	—4	—3	—1	*0*	0	0	*0*	—2	—1	*0*	2	4	*4*	3	3	4	4	—2.1	4	—12
13	4	3	3	2	1	1	2	*2*	2	3	*4*	3	6	*6*	7	7	*7*	5	3	*1*	—1	—2	—2	—2	2.7	7	1
14	—5	—4	—5	—7	—7	—8	—8	—9	—10	—11	*—11*	—12	—11	*—11*	—10	—8	*—6*	—6	—6	*—9*	—10	—10	—9	—8	—8.3	—6	—11
15	—8	—8	—8	—9	—9	—8	—8	—7	—7	—8	—9	—8	—8	—6	—7	—8	—7	—6	—6	—6	—5	—5	—2	—1	—6.8	—6	—10
16	—1	—1	—1	0	0	—1	—1	—1	0	0	*2*	4	5	*6*	7	8	*7*	7	6	*6*	6	6	6	5	3.1	7	—6
17	5	5	5	5	5	0	—2	—2	—3	—4	—1	5	5	*4*	4	4	*2*	2	0	*0*	—1	—3	—1	—1	1.4	6	—3
18	—2	0	—1	—1	—1	2	0	*1*	0	0	*2*	3	4	*6*	6	5	*6*	3	2	*2*	1	1	0	—1	1.6	7	—2
19	—1	—2	—2	—2	—2	—3	—4	—4	—4	—4	—5	—4	—3	—3	—3	—3	—3	—2	—2	—2	—3	—3	—3	—4	—3.0	—2	—5
20	—1	0	1	1	1	1	2	*2*	2	4	*6*	7	8	*8*	7	6	*5*	4	2	*2*	1	2	2	3	3.2	8	—4
21	2	4	4	4	6	7	7	*6*	5	5	*6*	6	10	*10*	10	10	*9*	8	8	*7*	7	6	6	7	6.7	12	2
22	9	7	10	10	10	11	10	*9*	10	11	*12*	11	9	*9*	9	10	*10*	10	11	*12*	14	13	10	8	10.2	13	6
23	7	6	6	7	8	7	5	*5*	6	7	*12*	12	14	*16*	15	13	*14*	12	12	*12*	12	9	11	13	10.0	16	5
24	13	14	10	14	12	14	13	*15*	11	12	*14*	13	14	*14*	14	14	*15*	13	12	*11*	12	11	12	11	12.8	16	9
25	11	10	10	10	10	10	10	*10*	10	11	*12*	12	13	*14*	14	15	*15*	14	13	*13*	12	11	10	9	11.6	17	10
26	9	9	9	8	7	6	6	*6*	7	8	*9*	10	10	*10*	11	13	*13*	12	10	*9*	10	9	9	10	9.2	14	5
27	12	11	11	10	10	11	10	*10*	7	8	*9*	10	8	*8*	8	8	*8*	8	9	*9*	8	8	7	8	9.0	10	7
28	9	9	8	8	8	7	7	*7*	5	5	*5*	5	4	*5*	5	5	*5*	4	3	*2*	1	1	0	0	4.9	7	2
29	0	—1	—1	—2	—2	—2	—2	—2	—2	0	*2*	3	5	*6*	7	7	*7*	7	6	*6*	5	5	5	5	2.6	8	—2
30	5	4	3	2	2	2	2	*2*	3	4	*5*	7	8	*12*	11	12	*12*	13	14	*14*	14	14	14	14	8.0	14	1
31	15	14	13	13	12	12	11	*11*	10	11	*11*	11	11	*11*	11	11	*12*	12	11	*10*	10	10	10	10	11.4	12	10
Mean..	6.6	6.4	6.2	6.1	6.1	6.2	5.8	5.8	5.7	6.2	7.4	7.9	8.5	8.9	8.9	8.9	9.0	8.4	7.9	7.4	7.0	6.6	6.6	6.7	7.1	10.9	2.2

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[January, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	NE.	28	NE.	25	NE.	25	NE.	27	NE.	26	N.	34	N.	42	N.	50	N.	51	NW.	65	NW.	68	80	NW.
2	NE.	29	NE.	21	NE.	19	NE.	21	NE.	18	NE.	17	NE.	18	NE.	23	NE.	30	NE.	28	NE.	27	71	NW.
3	NE.	38	NE.	35	NE.	38	NE.	42	NE.	42	NE.	38	NE.	38	NE.	39	NE.	34	NE.	33	NE.	28	51	NE.
4	N.	4	N.	6	NE.	9	NE.	15	NE.	13	NE.	13	NE.	9	W.	8	W.	19	W.	13	W.	16	32	NE.
5	NE.	8	NE.	13	NE.	10	NE.	9	NE.	14	NE.	18	NE.	18	NE.	19	NE.	17	NE.	19	NE.	18	30	NW.
6	NE.	24	NE.	17	*NE.*	15	NW.	16	N*	24	N.	28	NW.	31	NW.	34	*NE.*	30	NE.	22	NE.	21	54	NW.
7	N.	32	N.	34	N.	33	NE.	31	NE.	33	NE.	34	NE.	30	NE.	27	NE.	28	NE.	23	NE.	24	40	N.
8	NE.	36	NE.	34	NE.	29	NE.	30	NE.	32	NE.	32	NE.	37	NE.	35	NE.	33	NE.	37	NE.	31	46	N.
9	NE.	19	NE.	18	NE.	18	NE.	15	NE.	21	NE.	22	NE.	23	NE.	27	NE.	31	NE.	28	NE.	32	61	N.
10	W.	76	W.	81	W.	77	W.	73	W.	80	W.	77	W.	88	W.	90	W.	89	W.	89	W.	71	98	W.
11	NW.	22	NW.	31	N.	18	N.	18	N.	28	N.	31	N.	29	NE.	23	NE.	23	NE.	22	*N.*	39	66	NW.
12	NE.	39	NE.	37	N.	46	NW.	50	*N.*	51	N.	48	NE.	42	NE.	40	NE.	36	NE.	40	NE.	45	60	N.
13	W.	67	W.	72	W.	68	W.	75	W.	85	W.	88	W.	60	W.	56	W.	55	W.	40	NW.	26	96	W.
14	NW.	30	NW.	33	NW.	36	W.	34	W.	27	SW.	23	SW.	23	W.	27	W.	34	W.	40	W.	43	46	W.
15	NW.	22	N.	24	N.	26	NW.	20	NW.	33	NW.	36	NW.	34	NW.	32	NW.	32	*NE.*	24	NE.	27	51	W.
16	W.	18	NW.	17	NW.	17	NW.	15	W.	13	W.	14	W.	12	W.	10	W.	12	W.	10	W.	8	27	NE.
17	*N.*	7	NE.	10	*NE.*	14	NE.	16	NE.	18	NE.	22	NE.	23	NE.	22	NE.	17	NE.	17	NE.	20	29	W.
18	NE.	6	NE.	6	NE.	8	NE.	15	*NE.*	12	*N.*	25	NW.	27	NW.	23	NW.	22	NW.	16	NW.	20	33	NW.
19	NE.	12	N.	19	*NW.*	26	N.	20	N.	19	NW.	15	NW.	14	NW.	19	W.	24	W.	20	W.	24	30	NW.
20	*NE.*	4	*N.*	5	NE.	6	NE.	8	NE.	10	NE.	9	NE.	10	NE.	9	NE.	11	NE.	10	NE.	9	30	NW.
21	NE.	5	NE.	6	NE.	5	NE.	9	NE.	9	NE.	14	NE.	12	NE.	9	N.	10	NE.	12	NW.	11	31	NW.
22	NE.	10	NE.	11	N.	9	*N.*	10	NW.	17	*NW.*	18	NE.	13	NE.	17	NE.	15	NE.	17	NE.	18	24	NW.
23	W.	4	W.	8	N.	9	NW.	13	NW.	18	NW.	20	NW.	21	NW.	26	NW.	28	NW.	32	N.	24	36	NW.
24	NW.	15	N.	11	N.	20	N.	17	NW.	28	NW.	25	W.	38	NW.	33	*NW.*	31	NW.	31	NW.	38	46	W.
25	W.	51	W.	51	W.	51	W.	46	W.	56	W.	58	W.	52	W.	38	W.	49	W.	52	W.	53	66	W.
26	W.	67	W.	67	W.	63	W.	58	W.	50	W.	57	W.	67	W.	64	W.	60	W.	62	W.	74	80	W.
27	*SW.*	31	W.	44	SW.	40	SW.	37	SW.	61	SW.	65	SW.	57	SW.	48	SW.	45	SW.	36	SW.	33	96	W.
28	SW.	18	SW.	19	SW.	16	SW.	15	SW.	13	SW.	14	SW.	17	SW.	25	SW.	25	SW.	29	SW.	34	52	W.
29	SW.	45	SW.	52	SW.	49	SW.	62	SW.	51	SW.	43	SW.	37	SW.	25	W.	20	W.	16	W.	18	84	SW.
30	SW.	50	SW.	43	SW.	44	SW.	46	SW.	55	SW.	49	SW.	36	SW.	35	SW.	26	SW.	25	SW.	26	62	SW.
31	SW.	46	SW.	49	SW.	44	SW.	40	SW.	36	SW.	34	S.	26	*SW.*	22	S.	19	SW.	20	W.	20	63	SW.
Mean..	NE.	27.8	NE.	29.0	NE.	28.6	NE.	29.1	NE.	32.4	NE.	32.9	NE.	31.7	NE.	30.8	NE.	30.8	NE.	29.9	NE.	30.5	.....	.....

PIKES PEAK, COLO.

PRESSURE, 17 INCHES +.

NOTE—All eye readings are printed in *italics*.

February, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean	Max.	Min.
1	.40	.39	.39	.39	.39	.38	.38	*.38*	.38	.38	*.39*	.38	.39	*.37*	.36	.34	*.33*	.30	.29	*.28*	.27	.25	.24	.21	.34	.40	.21
2	.22	.22	.17	.17	.17	.17	.15	*.15*	.17	.11	*.12*	.08	*.13*	*.22*	.27	.29	*.28*	.31	.36	*.38*	.48	.51	.53	.56	.26	.56	.08
3	.59	.62	.63	.62	.60	.60	.61	*.62*	.63	.63	*.65*	.65	.66	*.65*	.63	.62	*.62*	.66	.66	*.63*	.64	.64	.62	.62	.63	.66	.59
4	.60	.57	.55	.57	.58	.59	.58	*.58*	.58	.56	*.55*	.56	.55	*.53*	.52	.54	*.52*	.52	.49	*.49*	.48	.47	.46	.48	.54	.60	.46
5	.48	.49	.48	.47	.46	.44	.46	*.45*	.46	.45	*.45*	.47	.48	*.47*	.45	.44	*.44*	.42	.42	*.41*	.40	.42	.41	.41	.45	.49	.40
6	.40	.40	.40	.41	.42	.43	.44	*.45*	.46	.46	*.47*	.47	.47	*.47*	.46	.46	*.51*	.52	.53	*.55*	.57	.58	.58	.58	.48	.58	.40
7	.59	.59	.59	.60	.60	.58	.59	*.61*	.63	.64	*.67*	.69	.72	*.74*	.75	.74	*.74*	.74	.74	*.73*	.74	.74	.75	.74	.68	.75	.58
8	.72	.67	.63	.60	.53	.51	.52	*.52*	.54	.56	*.57*	.56	.57	*.55*	.54	.53	*.51*	.51	.44	*.44*	.38	.40	.38	.36	.52	.72	.36
9	.35	.35	.34	.34	.32	.32	.33	*.34*	.35	.35	*.35*	.35	.37	*.38*	.35	.39	*.41*	.42	.47	*.47*	.50	.51	.51	.50	.39	.51	.32
10	.50	.48	.47	.40	.45	.45	.43	*.49*	.42	.45	*.46*	.47	.46	*.46*	.48	.48	*.48*	.49	.49	*.50*	.52	.52	.49	.50	.47	.52	.42
11	.47	.49	.48	.49	.47	.47	.48	*.50*	.51	.53	*.53*	.53	.55	*.54*	.53	.53	*.55*	.54	.55	*.54*	.55	.56	.57	.57	.52	.57	.47
12	.58	.58	.56	.54	.53	.51	.50	*.49*	.47	.47	*.48*	.49	.49	*.44*	.39	.40	*.39*	.38	.35	*.31*	.31	.30	.30	.28	.44	.58	.28
13	.27	.25	.23	.22	.22	.20	.18	*.17*	.15	*.16*	*.16*	.15	.13	*.12*	.11	.12	*.12*	.12	.13	*.15*	.16	.17	.18	.19	.17	.27	.11
14	.20	.21	.22	.23	.24	.24	.25	*.28*	.31	.34	*.35*	.38	.39	*.40*	.41	.43	*.45*	.47	.47	*.49*	.50	.52	.53	.54	.37	.54	.20
15	.55	.55	.55	.55	.55	.55	.55	*.55*	.55	.57	*.58*	.60	.59	*.59*	.60	.59	*.59*	.59	.59	*.61*	.63	.64	.64	.64	.58	.64	.55
16	.65	.64	.64	.64	.63	.61	.62	*.62*	.60	.60	*.60*	.62	.63	*.64*	.64	.64	*.65*	.65	.65	*.67*	.68	.68	.68	.66	.64	.68	.60
17	.66	.66	.66	.66	.66	.66	.66	*.66*	.68	.68	*.69*	.71	.72	*.71*	.72	.73	*.72*	.72	.72	*.73*	.73	.73	.74	.74	.70	.74	.76
18	.75	.74	.74	.75	.73	.71	.72	*.72*	.74	.75	*.76*	.77	.77	*.77*	.76	.75	*.75*	.75	.75	*.74*	.74	.75	.75	.75	.75	.77	.71
19	.74	.72	.68	.68	.69	.69	.70	*.71*	.71	.72	*.73*	.73	.72	*.71*	.68	.66	*.63*	.63	.60	*.58*	.57	.56	.55	.55	.66	.74	.55
20	.55	.54	.51	.51	.49	.50	.51	*.51*	.52	.55	*.57*	.58	.60	*.61*	.61	.60	*.62*	.62	.62	*.63*	.63	.62	.63	.64	.57	.64	.49
21	.64	.64	.63	.63	.63	.62	.63	*.64*	.66	.68	*.70*	.70	.70	*.70*	.71	.73	*.76*	.75	.75	*.75*	.76	.77	.77	.76	.70	.77	.62
22	.73	.71	.68	.63	.57	.53	.52	*.52*	.57	.56	*.54*	.55	.54	*.53*	.50	.48	*.44*	.44	.42	*.41*	.42	.44	.45	.41	.52	.73	.41
23	.41	.36	.37	.39	.35	.36	.37	*.39*	.42	.45	*.44*	.43	.43	*.40*	.40	.38	*.34*	.33	.35	*.38*	.37	.37	.37	.37	.38	.45	.33
24	.38	.38	.38	.36	.35	.35	.35	*.34*	.35	.36	*.36*	.38	.39	*.38*	.38	.39	*.39*	.40	.40	*.39*	.36	.37	.35	.36	.37	.40	.34
25	.38	.39	.37	.39	.38	.37	.35	*.34*	.35	.36	*.35*	.35	.35	*.36*	.33	.32	*.31*	.31	.29	*.27*	.26	.25	.26	.26	.33	.39	.25
26	.26	.25	.24	.23	.22	.21	.22	*.20*	.20	.19	*.18*	.18	.18	*.17*	.16	.15	*.14*	*.15*	*.16*	*.16*	.16	.15	.14	.13	.18	.26	.13
27	.10	.10	.09	.07	.07	.06	.05	*.05*	.05	*.05*	*.06*	.07	.07	*.09*	.09	.10	*.13*	.13	.13	*.15*	.16	.17	.18	.15	.10	.18	.05
28	.16	.15	.16	.16	.16	.14	.16	*.18*	.18	.17	*.17*	.18	.20	*.22*	.23	.24	*.26*	.29	.29	*.32*	.35	.38	.38	.39	.23	.39	.14
Mean	.48	.47	.46	.46	.44	.44	.44	.44	.45	.46	.46	.47	.47	.47	.47	.47	.47	.47	.47	.47	.48	.48	.48	.48	.46	.56	.38

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

February, 1893.]

Day.	0–1h a. m.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Noon.	Noon–1h p. m.
1	SW. 17	SW. 18	SW. 16	SW. 15	SW. 14	SW. 13	SW. 11	SW. 10	SW. 23	SW. 26	SW. 19	SW. 17	SW. 30
2	SW. 26	SW. 24	SW. 33	SW. 27	SW. 23	S. 21	SW. 26	SW. 29	SW. 30	SW. 37	SW. 33	W. 43	W. 59
3	*NW.* 39	*W.* 24	W. 51	W. 53	W. 66	NW. 68	SW. 65	SW. 65	SW. 63	*SW.* 65	SW. 63	SW. 58	SW. 63
4	SW. 77	W. 85	W. 85	*W.* 73	W. 72	SW. 64	SW. 65	SW. 67	W. 78	W. 86	W. 87	W. 89	W. 88
5	W. 41	*SW.* 28	*W.* 27	*SW.* 22	SW. 20	SW. 19	SW. 19	SW. 18	SW. 15	SW. 48	SW. 37	SW. 32	SW. 53
6	SW. 16	SW. 14	SW. 12	SW. 11	SW. 10	SW. 8	*W.* 6	W. 11	W. 17	SW. 28	SW. 24	SW. 23	SW. 30
7	W. 37	W. 38	W. 32	W. 29	W. 31	W. 35	W. 49	W. 52	NW. 43	NW. 44	NW. 45	NW. 45	NW. 38
8	SW. 58	SW. 62	SW. 66	SW. 59	*W.* 49	W. 53	W. 50	W. 41	W. 35	W. 44	W. 44	W. 40	W. 37
9	SW. 29	SW. 23	SW. 20	SW. 17	SW. 18	SW. 15	SW. 16	SW. 13	*W.* 12	NW. 17	NW. 40	NW. 57	*NW.* 67
10	W. 22	W. 21	W. 22	W. 21	*NW.* 17	NW. 14	NW. 14	NW. 16	NW. 20	NW. 24	NW. 47	NW. 49	NW. 50
11	W. 36	W. 34	*W.* 32	NW. 27	*NW.* 31	NW. 28	NW. 26	NW. 28	N. 21	N. 26	NW. 34	NW. 35	NW. 33
12	NW. 26	*W.* 21	W. 32	NW. 36	NW. 30	NW. 33	NW. 33	NW. 30	NW. 38	W. 55	W. 54	W. 50	W. 53
13	*SW.* 37	W. 40	W. 39	W. 27	W. 14	*W.* 9	*NE.* 5	*E.* 10	E. 9	*NE.* 7	NE. 8	NE. 8	NE. 12
14	N. 10	*NW.* 6	N. 3	SE. 4	SE. 3	*SW.* 5	*W.* 4	NW. 4	N. 3	*NE.* 6	NE. 8	NE. 7	NE. 12
15	NE. 10	NE. 6	E. 5	N. 4	N. 7	NE. 5	SE. 4	SE. 7	SW. 9	W. 10	SW. 10	SW. 10	SW. 9
16	NE. 17	NE. 19	NE. 19	NE. 22	NE. 19	NE. 22	NE. 20	NE. 22	NE. 19	NE. 28	NE. 32	NE. 36	NE. 38
17	NE. 21	NE. 21	NE. 27	NE. 20	NE. 15	NE. 16	NE. 26	N. 36	N. 40	N. 35	N. 36	N. 31	N. 24
18	N. 24	N. 18	N. 21	N. 19	N. 20	N. 35	N. 41	N. 34	N. 26	N. 28	N. 22	N. 17	N. 16
19	NW. 29	NW. 32	NW. 37	NW. 40	NE. 23	NE. 19	NE. 18	NE. 15	NE. 16	NE. 16	NE. 12	N. 9	W. 5
20	N. 18	NE. 18	NE. 22	NE. 31	NE. 36	NE. 35	NE. 33	NE. 25	NE. 25	NE. 24	NE. 20	NE. 18	NE. 22
21	NE. 32	NE. 30	NE. 35	NE. 38	NE. 38	NE. 41	NE. 47	NE. 44	NE. 42	NE. 39	NE. 36	NE. 35	NE. 35
22	W. 56	W. 59	W. 64	W. 73	W. 81	W. 88	W. 83	*SW.* 71	SW. 62	SW. 54	SW. 38	SW. 38	SW. 35
23	NW. 32	N. 45	*NW.* 57	N. 43	N. 42	NW. 57	N. 52	N. 45	N. 37	N. 29	NW. 25	NW. 29	W. 39
24	NW. 13	NW. 18	NW. 15	NW. 23	NW. 25	NW. 24	W. 30	W. 28	W. 29	W. 30	W. 23	W. 16	W. 6
25	NW. 53	*N.* 26	N. 26	NW. 25	*NW.* 22	*N.* 25	NW. 25	NW. 27	NW. 30	NW. 28	NW. 30	W. 36	W. 40
26	W. 27	W. 23	SW. 30	SW. 33	SW. 34	SW. 38	SW. 36	SW. 33	SW. 29	SW. 32	SW. 28	SW. 23	SW. 22
27	S. 32	SW. 30	SW. 26	SW. 23	SW. 20	W. 18	W. 16	*NW.* 12	NW. 13	NW. 16	NW. 22	NW. 25	NW. 27
28	W. 67	W. 66	W. 60	W. 61	W. 64	W. 67	W. 66	W. 62	W. 59	W. 63	W. 61	W. 64	W. 64
Mean	W. 32.2	W. 30.2	W. 32.5	SW. 31.4	W. 30.3	W., NW., SW. 31.2	W., SW. 32.0	W. 30.8	SW. 30.5	SW. 34.0	SW. 34.0	W., SW. 33.6	W. 36.0

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [February, 1893.

Day.	1h a. m.	2h	3h	4	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	10	10	10	10	10	9	8	*8*	8	9	*9*	9	9	*10*	10	10	*10*	9	9	*9*	9	10	10	9	9.3	10	8
2	7	3	1	—1	—3	—5	—6	—7	—8	—9	—9	—8	—7	—6	—5	—5	—5	—5	—5	—6	—6	—6	—5	—4	—4.6	—4	—9
3	—5	—6	—6	—6	—5	—6	—4	—4	—3	—2	—1	0	2	*3*	4	4	*5*	5	5	*4*	4	4	5	5	0.1	6	—7
4	5	4	4	4	4	4	4	4	4	5	*5*	5	7	*8*	8	8	*8*	8	7	*6*	5	5	6	7	5.6	8	2
5	7	9	9	9	8	8	9	9	9	9	*9*	10	12	*12*	13	12	*12*	12	12	*11*	11	10	9	8	10.0	13	4
6	7	6	6	6	5	5	4	*3*	2	*1*	*1*	0	1	*1*	1	0	*0*	0	—2	*—4*	—6	—6	—6	—6	0.5	3	—4
7	—6	—6	—4	—4	—5	—7	—8	*—8*	—9	—8	—7	—6	—5	*—3*	—3	—1	*—2*	—1	—2	*—2*	—1	0	1	1	—4.0	1	—10
8	3	2	2	3	5	5	5	*4*	5	6	*7*	7	9	*10*	11	10	*11*	11	11	*10*	10	11	11	11	7.5	12	—2
9	12	12	11	11	11	11	11	*11*	12	10	*8*	7	6	*5*	5	5	*5*	4	5	*6*	6	6	6	7	8.0	11	5
10	7	7	6	6	4	3	2	*1*	0	0	*0*	0	2	*3*	3	3	*3*	2	3	*2*	2	1	1	1	2.6	3	0
11	0	0	—1	—1	—1	—1	—1	*—1*	—2	—2	*—2*	—1	0	*0*	0	1	*1*	1	0	*0*	—2	—3	—3	—3	—0.9	0	—2
12	—3	—3	—2	—1	—1	—1	0	*0*	2	2	*3*	2	3	*4*	4	3	*3*	4	3	*3*	3	2	2	2	1.4	4	—3
13	1	1	0	0	0	0	0	*—1*	—1	*—1*	*—2*	—2	0	*0*	0	0	*—1*	—1	—3	*—3*	—4	—6	—7	—6	—1.5	0	—3
14	—6	—8	—9	—9	—9	—9	—9	*—10*	—9	—9	*—8*	—7	—4	*—2*	—2	—1	*—1*	—1	—3	*—5*	—6	—7	—7	—7	—6.2	—1	—11
15	—7	—6	—7	—6	—6	—6	—6	*—5*	—5	—3	*—1*	2	4	*5*	5	5	*5*	7	7	*4*	2	2	1	2	—0.3	9	—8
16	3	5	6	6	6	5	6	*4*	4	6	*9*	9	10	*10*	11	12	*12*	12	12	*12*	12	11	11	10	8.5	12	1
17	10	8	8	9	8	8	7	*7*	6	6	*7*	6	7	*6*	6	6	*6*	6	6	*4*	4	4	3	3	6.3	7	4
18	2	1	1	0	—1	—1	—1	*—1*	1	1	*2*	4	6	*7*	7	7	*6*	6	5	*3*	3	3	2	1	2.7	7	—1
19	0	—1	—2	—1	2	3	3	*5*	6	10	*12*	14	14	*14*	15	12	*12*	11	9	*8*	8	6	6	5	7.1	17	—2
20	4	3	1	—1	—2	—2	—2	*—3*	—2	—2	*—2*	—1	1	*2*	1	1	*1*	2	3	*4*	4	4	5	4	1.0	4	—3
21	5	6	6	7	7	8	9	*9*	10	11	*11*	12	13	*15*	16	16	*16*	16	16	*15*	15	16	16	16	12.0	17	4
22	16	16	14	14	13	12	12	*12*	12	12	*12*	12	13	*13*	11	9	*9*	7	6	*5*	3	2	—1	—6	9.5	18	5
23	—9	—11	—13	—13	—13	—10	—8	*—7*	—6	—2	*—2*	—3	—5	*—4*	—2	—2	*—2*	—3	—4	*—5*	—6	—6	—7	—7	—6.2	—1	—14
24	—7	—8	—8	—8	—9	—9	—9	*—9*	—9	—8	*—7*	—6	—5	*—5*	—6	—7	*—7*	—9	—10	*—10*	—11	—12	—13	—10	—8.4	—5	—10
25	—9	—6	—5	—2	—1	—1	—2	*—3*	—4	—2	*—1*	—1	2	*3*	3	3	*4*	1	0	*—2*	—4	—5	—6	—6	—1.8	4	—13
26	—6	—5	—3	—3	—3	—2	—2	*—2*	—2	—2	*—2*	0	1	*2*	2	3	*3*	3	2	*1*	1	1	1	0	—0.5	3	—7
27	—2	—4	—4	—6	—8	—10	—12	*—14*	—16	—16	*—18*	—17	—16	*—15*	—14	—15	*—15*	—15	—17	*—18*	—19	—20	—20	—19	—13.8	—14	—18
28	—19	—18	—19	—18	—17	—17	—17	*—17*	—16	—15	*—14*	—13	—11	*—9*	—8	—7	*—7*	—7	—8	*—9*	—9	—9	—9	—9	—12.6	—5	—21
Mean..	.7	.4	.1	.2	.0	—.2	—.2	—.5	—.4	.2	.7	1.2	2.5	3.2	3.4	3.3	3.3	3.0	2.4	1.5	1.0	.6	.4	.3	1.1	5.0	—4.1

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[February, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	SW.	24	SW.	20	SW.	16	SW.	14	W.	18	SW.	19	*W.*	34	*SW.*	44	W.	39	W.	34	*SW.*	34	48	SW.
2	W.	68	W.	66	W.	53	W.	79	W.	90	W.	85	W.	81	W.	54	W.	55	W.	64	W.	53	96	W.
3	SW.	66	SW.	72	SW.	74	*W.*	73	*SW.*	59	SW.	56	SW.	65	SW.	64	SW.	68	SW.	71	SW.	72	84	SW.
4	W.	89	W.	88	SW.	69	SW.	62	SW.	54	SW.	57	SW.	54	SW.	55	W.	52	W.	51	W.	47	98	W.
5	SW.	41	SW.	31	SW.	42	SW.	28	SW.	39	SW.	32	SW.	25	SW.	18	SW.	16	SW.	13	SW.	15	63	SW.
6	SW.	39	SW.	41	SW.	39	SW.	23	SW.	20	SW.	19	W.	20	W.	22	*SW.*	18	W.	25	NW.	39	62	SW.
7	NW.	31	*NW.*	25	*W.*	22	W.	22	*W.*	29	*SW.*	34	SW.	38	SW.	39	SW.	44	SW.	49	SW.	55	60	SW.
8	W.	40	W.	47	W.	54	W.	59	*SW.*	58	SW.	64	SW.	55	SW.	46	SW.	41	SW.	36	SW.	35	74	SW.
9	*SW.*	60	*NW.*	77	SW.	57	SW.	41	SW.	38	SW.	25	SW.	34	SW.	28	SW.	19	*W.*	21	W.	22	82	SW.
10	W.	52	W.	44	W.	31	W.	42	W.	48	W.	47	W.	40	W.	30	W.	33	W.	42	W.	37	60	W.
11	NW.	28	NW.	33	NW.	35	*N.*	23	*NW.*	32	*N.*	34	NW.	41	NW.	50	NW.	44	NW.	39	NW.	37	56	NW.
12	W.	51	W.	53	W.	59	SW.	49	SW.	42	SW.	37	SW.	35	SW.	39	SW.	40	SW.	37	SW.	35	66	W.
13	NE.	13	NE.	10	NE.	12	NE.	13	NE.	14	*N.*	12	N.	11	N.	11	N.	13	NW.	12	N.	9	42	W.
14	NE.	11	NE.	13	E.	12	E.	10	*E.*	11	NE.	8	NE.	9	NE.	11	NE.	9	NE.	8	NE.	10	16	N.
15	SW.	9	SW.	10	SW.	10	SW.	11	SW.	7	SW.	3	*N.*	4	N.	11	N.	8	*NE.*	10	NE.	15	16	NE.
16	NE.	28	NE.	23	NE.	23	NE.	20	NE.	19	NE.	22	NE.	21	NE.	22	NE.	25	NE.	28	NE.	28	41	NE.
17	NW.	18	N.	16	N.	16	N.	20	N.	22	N.	22	N.	20	N.	30	N.	39	N.	34	N.	31	46	N.
18	N.	17	N.	18	N.	17	NW.	21	W.	32	W.	29	W.	27	W.	37	W.	39	W.	36	W.	27	47	N.
19	W.	7	W.	12	*SW.*	21	SW.	32	SW.	19	*W.*	27	W.	36	W.	39	W.	47	W.	40	NW.	30	50	W.
20	NE.	19	NE.	22	*N.*	28	N.	27	NE.	27	NE.	17	NE.	18	NE.	21	NE.	30	NE.	34	NE.	30	42	NE.
21	NE.	38	NE.	32	NE.	30	NE.	20	NE.	15	N.	21	N.	21	NW.	29	NW.	36	NW.	31	NW.	32	55	NE.
22	SW.	26	SW.	32	SW.	29	SW.	30	SW.	20	W.	21	W.	20	W.	33	W.	33	W.	27	NW.	32	92	W.
23	W.	47	W.	54	W.	50	W.	53	W.	63	W.	41	W.	21	W.	20	NW.	21	NW.	20	NW.	21	72	W.
24	W.	7	SW.	12	W.	12	W.	21	W.	17	NW.	25	W.	29	W.	45	W.	52	NW.	45	NW.	56	64	NW.
25	W.	34	SW.	27	SW.	30	SW.	26	SW.	28	SW.	29	SW.	24	W.	29	W.	30	W.	28	W.	28	61	NW.
26	SW.	18	*W.*	30	W.	24	SW.	20	W.	20	SW.	16	SW.	17	SW.	17	SW.	18	S.	27	S.	30	45	SW.
27	*W.*	28	W.	34	W.	34	W.	35	W.	35	W.	37	W.	33	W.	35	W.	40	W.	39	W.	57	69	W.
28	W.	65	W.	63	SW.	62	SW.	45	SW.	30	W.	34	W.	34	W.	37	W.	37	W.	37	W.	45	73	W.
Mean..	W.	34.8	W.	35.9	SW.	34.3	SW.	33.0	SW.	32.4	SW.	31.2	W.	31.0	W.	32.7	W.	33.8	W.	33.5	W.	34.4	.....	.....

PIKES PEAK, COLO.

PRESSURE. 17 INCHES +.

NOTE.—All eye readings are printed in *italics*.

March, 1893.] [Seventy-fifth

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean	Max.	Min.
1	.40	.39	.37	.37	.36	.37	.39	.41	.44	.46	.46	.46	.46	.47	.48	.48	.47	.47	.46	.44	.44	.45	.44	.41	.43	.48	.36
2	.40	.39	.38	.39	.36	.36	.39	.41	.40	.40	.42	.43	.44	.45	.46	.44	.45	.45	.45	.47	.46	.45	.45	.44	.42	.47	.36
3	.42	.41	.40	.40	.38	.37	.38	.38	.43	.45	.48	.50	.50	.50	.55	.56	.58	.60	.61	.61	.61	.61	.62	.62	.50	.62	.37
4	.62	.62	.63	.63	.63	.63	.63	.63	.65	.66	.70	.70	.69	.68	.65	.64	.63	.63	.64	.64	.64	.63	.64	.64	.64	.70	.62
5	.62	.61	.57	.59	.57	.57	.58	.58	.59	.59	.60	.60	.60	.60	.59	.58	.58	.58	.53	.58	.57	.57	.57	.57	.58	.62	.57
6	.55	.52	.52	.51	.49	.48	.48	.49	.52	.55	.58	.58	.58	.59	.59	.58	.57	.57	.58	.58	.58	.57	.56	.56	.55	.59	.48
7	.55	.53	.51	.50	.49	.48	.47	.44	.43	.42	.41	.41	.40	.39	.35	.32	.29	.28	.28	.26	.25	.23	.21	.21	.38	.55	.21
8	.20	.19	.18	.15	.15	.14	.18	.22	.26	.30	.33	.36	.38	.40	.40	.42	.44	.45	.46	.46	.43	.44	.44	.44	.33	.46	.14
9	.43	.41	.40	.38	.35	.34	.36	.38	.37	.36	.35	.34	.33	.32	.30	.30	.30	.28	.28	.26	.25	.25	.24	.23	.32	.43	.23
10	.20	.16	.16	.15	.11	.12	.08	.10	.12	.13	.15	.16	.18	.19	.21	.21	.19	.21	.25	.26	.28	.27	.33	.31	.19	.33	.08
11	.31	.34	.41	.41	.44	.47	.50	.52	.53	.54	.58	.59	.60	.62	.60	.60	.62	.59	.61	.62	.60	.59	.56	.56	.53	.62	.31
12	.52	.47	.45	.42	.37	.34	.32	.31	.30	.29	.29	.28	.26	.24	.23	.20	.22	.22	.21	.25	.25	.26	.27	.24	.30	.52	.20
13	.24	.24	.27	.28	.29	.30	.34	.39	.38	.41	.48	.48	.48	.48	.48	.49	.49	.49	.50	.50	.50	.50	.50	.50	.42	.50	.24
14	.50	.50	.49	.49	.49	.49	.49	.53	.54	.56	.58	.60	.60	.60	.60	.61	.61	.61	.60	.61	.61	.61	.59	.59	.56	.61	.49
15	.55	.52	.52	.50	.47	.47	.47	.48	.49	.51	.50	.50	.46	.46	.43	.41	.41	.41	.39	.38	.38	.37	.34	.26	.44	.55	.26
16	.26	.26	.27	.27	.29	.29	.31	.33	.37	.38	.39	.42	.42	.44	.47	.47	.47	.48	.48	.50	.50	.51	.51	.51	.40	.51	.26
17	.50	.48	.47	.46	.45	.45	.45	.46	.50	.55	.56	.57	.57	.57	.57	.56	.57	.58	.58	.57	.57	.56	.57	.57	.53	.58	.45
18	.56	.56	.54	.47	.42	.43	.41	.43	.47	.50	.51	.53	.56	.57	.57	.58	.58	.58	.58	.56	.55	.55	.55	.56	.53	.58	.41
19	.56	.55	.54	.54	.50	.51	.51	.51	.52	.52	.52	.52	.52	.50	.50	.50	.48	.48	.46	.46	.43	.42	.42	.42	.50	.56	.42
20	.42	.42	.44	.43	.41	.41	.43	.43	.43	.47	.46	.48	.50	.51	.51	.50	.50	.50	.51	.51	.50	.50	.49	.47	.47	.51	.41
21	.44	.41	.41	.36	.34	.33	.32	.33	.34	.33	.37	.36	.38	.38	.40	.40	.38	.39	.40	.41	.39	.40	.40	.39	.38	.44	.32
22	.37	.31	.28	.26	.25	.24	.24	.25	.25	.24	.23	.24	.23	.21	.21	.21	.20	.19	.20	.21	.20	.21	.21	.20	.24	.37	.19
23	.17	.17	.19	.19	.20	.23	.24	.24	.24	.24	.24	.28	.30	.30	.31	.32	.33	.34	.34	.34	.34	.35	.36	.35	.28	.36	.17
24	.34	.34	.35	.34	.34	.34	.37	.39	.41	.42	.44	.45	.46	.47	.48	.48	.48	.48	.49	.49	.50	.50	.50	.49	.43	.50	.34
25	.49	.49	.48	.47	.46	.46	.47	.47	.48	.49	.49	.51	.52	.53	.53	.53	.54	.54	.56	.58	.58	.61	.62	.62	.52	.62	.46
26	.62	.62	.59	.57	.57	.55	.55	.56	.52	.53	.55	.60	.60	.60	.60	.60	.60	.63	.63	.64	.62	.60	.60	.58	.59	.64	.52
27	.58	.58	.57	.58	.59	.59	.62	.65	.66	.67	.70	.70	.70	.71	.73	.74	.76	.76	.77	.81	.82	.83	.82	.82	.70	.83	.57
28	.81	.80	.79	.78	.79	.81	.83	.86	.89	.90	.91	.92	.94	.96	.96	.97	.97	.97	.97	.99	.99	.98	.98	.91	.99	.78
29	.97	.97	.96	.95	.94	.93	.92	.95	.97	.98	.99	1.00	.99	.98	.95	.95	.95	.94	.93	.94	.94	.93	.92	.92	.96	1.00	.92
30	.92	.93	.94	.93	.92	.92	.93	.94	.95	.96	.96	.96	.96	.95	.94	.94	.92	.90	.90	.91	.89	.87	.84	.83	.92	.96	.83
31	.83	.79	.76	.72	.68	.68	.68	.67	.68	.65	.67	.68	.66	.67	.66	.66	.66	.64	.60	.64	.62	.62	.63	.65	.68	.83	.60
Mean	.50	.48	.48	.47	.46	.46	.46	.48	.49	.50	.51	.52	.52	.53	.53	.52	.53	.52	.53	.53	.52	.52	.52	.51	.50	.59	.40

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

March, 1893.]

Day.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11h–Noon.		Noon–1h p. m.	
1	W.	41	W.	54	W.	56	W.	58	W.	61	W.	62	W.	62	W.	58	W.	55	W.	49	W.	43	W.	47	W.	48
2	W.	45	W.	41	W.	41	W.	39	W.	36	W.	36	W.	40	W.	39	W.	36	W.	40	W.	36	W.	33	W.	28
3	W.	26	NW.	23	NW.	27	NW.	30	NW.	32	NW.	36	NW.	39	NW.	36	NW.	29	NW.	24	NW.	19	W.	26	W.	32
4	NW.	28	NW.	31	NW.	32	N.	29	N.	27	N.	26	NW.	21	NW.	22	NW.	21	W.	28	NW.	27	NW.	25	NW.	21
5	SW.	27	SW.	30	W.	29	SW.	31	SW.	30	SW.	30	SW.	31	SW.	29	SW.	28	SW.	28	SW.	25	SW.	29	SW.	24
6	SW.	27	SW.	23	SW.	19	SW.	21	SW.	22	SW.	22	SW.	22	SW.	19	SW.	19	SW.	19	SW.	19	SW.	21	SW.	28
7	SW.	27	S.	29	SW.	29	SW.	29	SW.	30	SW.	27	SW.	25	SW.	25	SW.	26	SW.	29	SW.	29	SW.	25	SW.	23
8	NW.	45	N.	39	N.	41	N.	50	NW.	61	NW.	70	N.	66	N.	59	N.	54	N.	51	N.	47	N.	49	N.	40
9	SW.	36	SW.	30	SW.	33	SW.	42	SW.	52	SW.	54	SW.	57	SW.	56	SW.	47	SW.	43	SW.	38	SW.	40	SW.	36
10	SW.	38	SW.	40	SW.	29	W.	29	W.	29	W.	26	W.	36	W.	37	W.	32	W.	30	NW.	29	NW.	29	W.	28
11	N.	54	N.	55	N.	46	N.	59	N.	65	N.	56	N.	57	NW.	52	NW.	49	NW.	47	NW.	42	NW.	36	W.	43
12	SW.	47	SW.	64	SW.	53	SW.	58	SW.	51	W.	56	W.	55	W.	50	W.	50	W.	44	S.	29	S.	26	SW.	32
13	NW.	53	NW.	53	NW.	50	NW.	43	NW.	40	N.	31	N.	37	N.	28	N.	23	N.	15	NE.	6	NE.	5	W.	10
14	NW.	15	NW.	20	W.	14	NW.	9	NW.	9	NW.	13	N.	28	N.	26	N.	27	N.	30	NW.	39	NW.	28	NW.	34
15	SW.	48	SW.	59	SW.	66	SW.	68	SW.	69	SW.	78	SW.	73	SW.	72	SW.	69	SW.	64	SW.	55	SW.	44	SW.	42
16	W.	56	NW.	55	NW.	56	NW.	52	NW.	51	NW.	54	NW.	60	NW.	61	NW.	59	NW.	55	NW.	60	NW.	41	NW.	40
17	NW.	20	NW.	24	NW.	22	NW.	23	NW.	21	NW.	25	NW.	30	NW.	40	NW.	48	NW.	31	NE.	18	NE.	13	N.	14
18	N.	35	N.	34	NW.	40	W.	47	W.	74	W.	81	W.	78	W.	84	W.	83	W.	67	W.	58	W.	52	NW.	39
19	W.	52	W.	47	W.	38	W.	35	W.	39	W.	44	W.	40	W.	41	W.	50	W.	59	W.	58	SW.	53	SW.	50
20	W.	61	W.	54	W.	32	W.	27	W.	28	W.	24	W.	18	W.	18	W.	22	W.	19	W.	34	W.	29	SW.	17
21	SW.	24	SW.	24	SW.	25	SW.	21	W.	21	W.	20	SW.	13	SW.	5	SW.	36	W.	49	W.	43	W.	37	SW.	36
22	W.	14	W.	16	W.	23	W.	23	W.	21	W.	20	W.	16	NW.	15	NW.	21	NW.	28	W.	26	W.	21	W.	14
23	NW.	28	NW.	27	NW.	25	NW.	25	NW.	22	N.	11	N.	10	N.	10	*NE.*	15	NE.	24	NE.	25	NE.	21	N.	12
24	NW.	52	NW.	53	NW.	55	NW.	60	NW.	54	NW.	57	NW.	*61	NW.	*53	NW.	48	N.	38	N.	36	N.	35	NW.	34
25	W.	23	NW.	13	N.	11	N.	17	N.	18	NE.	15	NE.	15	NE.	18	N.	20	N.	14	N.	18	N.	12	N.	11
26	NW.	22	NW.	23	W.	35	NW.	34	NW.	37	NW.	43	NW.	40	N.	41	NW.	50	NW.	51	NW.	54	NW.	50	NW.	33
27	W.	60	W.	53	W.	55	W.	47	NW.	32	NW.	31	N.	34	N.	26	N.	22	N.	25	N.	17	*NW.*	17	NW.	25
28	NW.	48	NW.	53	NW.	54	NW.	61	*N.*	57	N.	48	NE.	37	NE.	29	NE.	30	NE.	27	NE.	23	NE.	24	NE.	20
29	W.	20	W.	26	W.	23	NW.	23	NW.	28	NW.	34	NW.	35	N.	27	N.	21	N.	16	NW.	23	NW.	22	NW.	22
30	NW.	47	NW.	40	NW.	37	NW.	38	NW.	43	NW.	41	NW.	47	NW.	41	NW.	37	NW.	37	NW.	28	NW.	21	N.	17
31	SW.	48	W.	57	W.	62	W.	69	SW.	70	SW.	72	SW.	65	SW.	62	SW.	55	SW.	55	W.	54	W.	41	W.	48
Mean	W. NW.	37.6	NW.	38.1	W.	37.4	NW.	38.5	NW.	39.7	NW.	40.1	W. NW.	40.3	NW.	38.0	NW.	38.1	W.	36.6	NW.	34.1	NW.	30.7	W. SW.	28.9

* Interpolated.

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [March, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	—8	—7	—5	—4	—4	—3	—2	—2	—2	—1	0	0	2	4	5	6	7	7	5	3	3	2	1	1	0.3	7	—9
2	0	1	1	2	2	2	2	2	2	3	3	4	6	8	3	8	8	8	5	4	2	2	2	2	3.6	8	1
3	2	0	—1	—1	—2	—2	—3	—3	—4	—3	—2	—2	0	6	1	1	2	1	1	—1	—1	—2	—3	—3	—1.0	2	—3
4	—3	—3	3	6	6	6	6	6	7	8	9	10	10	11	11	12	12	11	11	9	8	8	8	8	7.5	13	—2
5	9	10	9	8	10	10	10	10	8	8	9	10	12	13	14	14	14	14	13	10	11	10	10	10	10.7	14	8
6	10	10	9	9	8	8	8	8	9	9	10	11	12	14	14	14	15	13	12	10	9	9	9	9	10.4	15	8
7	8	8	7	7	7	6	7	6	5	7	9	9	9	8	6	5	4	4	3	2	1	0	—1	—3	5.2	10	2
8	0	0	—2	—2	—2	—2	1	2	3	6	6	7	9	11	10	10	11	11	10	9	8	7	6	5	5.2	12	—3
9	4	4	3	2	2	2	2	1	2	3	4	4	6	7	8	8	8	6	6	6	5	3	0	—2	3.9	8	1
10	—4	—4	—6	—7	—7	—7	—7	—8	—8	—6	—6	—6	—5	—5	—3	—5	—5	—7	—8	—11	—13	—15	—16	—16	—7.6	—3	—11
11	—15	—11	—6	—1	5	6	7	8	10	10	12	12	13	14	13	14	15	14	13	10	9	9	7	7	7.3	15	—15
12	7	5	4	3	3	2	1	0	0	—1	0	—1	0	—2	—4	—6	—6	—7	—9	—9	—9	—10	—10	—11	—2.5	0	—9
13	—10	—10	—10	—9	—8	—7	—8	—8	—8	—7	—7	—4	—4	—4	—4	—3	—5	—6	—5	—6	—8	—8	—9	—9	—7.0	—4	—10
14	—10	—10	—10	—10	—11	—12	—12	—12	—9	—5	—3	—3	—1	3	5	4	7	5	3	3	2	0	0	1	—3.1	7	—12
15	2	2	2	2	3	2	3	4	4	4	5	5	6	8	9	10	11	9	7	6	5	4	—2	—3	4.5	9	0
16	—4	—6	—6	—5	—5	—5	—5	—6	—6	—6	—5	—3	—2	0	2	1	1	0	—1	—2	—2	—3	—3	—3	—3.1	1	—6
17	—5	—6	—7	—7	—7	—8	—9	—9	—8	—7	—3	—2	—1	1	1	0	0	—1	—2	—3	—4	—4	—2	0	—3.9	1	—9
18	4	5	3	1	0	1	2	2	2	5	6	6	8	10	10	10	10	11	10	9	8	7	6	6	6.0	11	—3
19	6	6	6	6	5	5	5	5	6	10	10	11	13	14	14	14	14	13	13	11	10	9	8	8	9.1	15	5
20	9	10	9	9	9	8	8	8	8	9	10	11	13	14	14	14	14	13	14	14	13	12	12	13	11.2	14	8
21	13	13	12	12	12	12	12	12	12	12	13	14	14	14	15	15	15	15	14	14	13	13	13	13	13.2	15	10
22	13	13	13	13	13	13	13	13	12	12	13	13	12	14	14	13	10	8	7	5	4	4	3	2	10.4	15	5
23	1	2	1	1	1	1	0	0	—1	—1	0	2	4	7	6	3	3	1	—1	—2	—2	—2	—3	—4	0.7	10	—2
24	—5	—5	—5	—4	—5	—4	—4	—4	—3	—1	1	1	2	3	4	5	5	4	5	3	2	2	2	2	0.0	6	—6
25	1	1	0	0	—1	—1	—1	—1	1	1	2	3	5	7	6	6	5	3	2	2	2	2	1	0	1.9	7	—1
26	—1	—1	—1	—2	—2	—1	0	0	—1	0	0	3	4	6	7	8	8	8	6	6	5	5	5	5	2.8	8	—3
27	5	5	5	5	5	5	4	3	3	4	4	5	5	5	7	10	10	10	10	9	8	8	8	8	6.3	10	3
28	9	9	10	10	11	12	15	14	13	15	16	17	18	19	20	21	21	21	21	20	18	18	17	19	16 0	22	8
29	18	17	17	17	18	18	19	19	20	21	21	21	23	24	25	25	25	25	24	23	21	20	19	20	20.8	26	15
30	20	21	22	22	20	21	23	20	22	24	26	25	25	27	28	29	29	29	28	27	26	25	25	25	24.5	30	19
31	23	22	23	22	22	21	21	19	19	19	19	19	20	20	21	20	19	19	18	17	15	14	14	14	19.2	21	16
Mean..	3.2	3.3	3.2	3.4	3.5	3.5	3.8	3.5	3.8	4.9	5.8	6.5	7.6	8.9	9.3	9.2	9.3	8.5	7.6	6.4	5.5	4.8	4.1	4.0	5.6	10.5	0.1

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[March, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	W.	46	W.	35	W.	33	W.	30	W.	40	W.	29	W.	44	W.	45	W.	40	W.	39	W.	45	64	W.
2	W.	29	SW.	27	SW.	35	SW.	29	SW.	32	SW.	34	SW.	33	W.	25	W.	30	W.	30	W.	27	51	W.
3	W.	35	W.	30	W.	24	NW.	17	N.	17	N.	22	N.	22	N.	29	NW.	29	NW.	29	NW.	33	42	NW.
4	NW.	22	W.	27	W.	34	W.	36	W.	36	W.	32	W.	26	SW.	29	SW.	31	SW.	31	SW.	27	40	W.
5	S.	23	S.	23	SW.	22	SW.	21	SW.	24	SW.	26	SW.	24	SW.	25	SW.	25	SW.	26	SW.	27	33	SW.
6	SW.	28	SW.	28	SW.	22	SW.	24	SW.	24	SW.	22	SW.	21	SW.	22	SW.	20	SW.	27	SW.	29	30	SW.
7	*E.*	10	E.	13	*S.*	10	W.	18	NW.	17	NW.	19	NE.	14	N.	22	N.	34	NW.	47	N.	44	53	NW.
8	NW.	37	N.	40	NW.	37	NW.	33	NW.	29	W.	34	W.	30	W.	39	W.	41	SW.	36	SW.	34	76	NW.
9	SW.	36	SW.	38	SW.	32	W.	27	W.	32	SW.	35	SW.	34	W.	35	S.	36	S.	35	S.	32	60	SW.
10	W.	28	W.	28	W.	30	W.	31	W.	37	W.	44	W.	39	W.	40	NW.	46	N.	38	N.	42	55	NW.
11	W.	45	SW.	28	SW.	41	W.	39	W.	47	W.	38	SW.	28	SW.	36	SW.	43	SW.	43	SW.	49	76	N.
12	W.	43	W.	42	W.	42	W.	30	W.	32	W.	45	W.	51	W.	52	W.	50	NW.	46	NW.	50	85	W.
13	W.	5	W.	7	W.	9	W.	9	W.	16	W.	14	NW.	10	NW.	12	NW.	17	NW.	13	NW.	12	60	NW.
14	W.	36	W.	41	W.	31	W.	33	W.	32	W.	37	SW.	35	SW.	32	SW.	34	SW.	43	SW.	44	48	W.
15	SW.	45	SW.	40	SW.	42	SW.	38	SW.	29	SW.	31	SW.	32	SW.	33	W.	37	W.	55	W.	74	90	SW.
16	NW.	36	NW.	24	W.	19	NW.	21	NW.	22	NW.	24	NW.	22	NW.	19	NW.	12	NW.	10	NW.	13	68	NW.
17	N.	12	N.	16	N.	18	N.	15	N.	16	NW.	18	W.	28	W.	39	W.	39	NW.	39	N.	30	50	NW.
18	NW.	22	W.	22	NW.	15	W.	15	W.	20	W.	33	W.	45	W.	56	W.	55	W.	55	W.	54	92	W.
19	SW.	41	SW.	42	SW.	37	SW.	51	SW.	51	SW.	48	W.	41	W.	48	W.	56	W.	61	W.	62	66	W.
20	SW.	15	SW.	17	SW.	15	SW.	14	SW.	17	SW.	14	SW.	10	SW.	13	SW.	28	SW.	24	SW.	25	66	W.
21	SW.	23	SW.	13	SW.	17	SW.	32	W.	35	W.	25	W.	26	W.	28	W.	24	SW.	18	W.	16	57	SW.
22	NW.	13	W.	10	W.	9	W.	8	SW.	19	SW.	32	W.	23	W.	23	*NW.*	16	N.	15	N.	23	36	SW.
23	*N.*	8	NW.	6	N.	10	N.	11	N.	14	NW.	*21	NW.	*40	NW.	41	NW.	41	NW.	43	NW.	52	65	NW.
24	NW.	29	W.	20	W.	12	NW.	17	W.	23	NW.	19	NW.	15	W.	25	W.	27	NW.	20	W.	24	68	NW.
25	N.	7	N.	8	*NE.*	9	*N.*	8	NE.	12	NE.	16	*NE.*	10	N.	11	N.	9	NW.	7	NW.	18	28	W.
26	NW.	25	NW.	22	N.	17	N.	18	N.	17	NW.	24	NW.	26	W.	37	W.	50	W.	57	W.	66	70	W.
27	N.	37	N.	42	NW.	32	NW.	34	NW.	40	NW.	45	NW.	38	NW.	31	NW.	33	NW.	30	NW.	44	67	W.
28	NE.	15	N.	11	N.	8	*W.*	9	*NW.*	10	W.	12	SW.	7	W.	7	W.	15	W.	21	W.	20	69	NE.
29	W.	28	W.	36	W.	35	W.	29	NW.	24	NW.	35	NW.	40	NW.	35	NW.	42	NW.	46	NW.	48	51	NW.
30	NW.	25	W.	32	W.	30	W.	26	W.	30	W.	42	W.	29	W.	35	W.	46	W.	57	SW.	57	66	W.
31	W.	31	W.	32	W.	29	W.	21	W.	23	W.	54	W.	52	W.	48	W.	39	W.	34	W.	23	82	SW.
Mean..	W.	26.9	W.	25.8	W.	24.4	W.	24.0	W.	26.4	W.	29.8	W.	28.9	W.	31.4	W.	33.9	NW.	34.7	W.	36.9	.....	.....

* Interpolated.

PIKES PEAK, COLO.

PRESSURE, 17 INCHES +.

NOTE.—All eye readings are printed in *italics*.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.63	.60	.62	.63	.57	.55	.55	*.55*	.58	.59	*.60*	.64	.65	*.66*	.66	.66	*.65*	.65	.65	*.66*	.66	.68	.68	.68	.63	.68	.55
2	.67	.66	.66	.66	.65	.64	.64	*.64*	.66	.71	*.68*	.69	.69	*.70*	.70	.71	*.72*	.72	.73	*.73*	.73	.72	.72	.72	.69	.73	.64
3	.66	.65	.61	.58	.56	.61	.60	*.60*	.69	.71	*.71*	.67	.74	*.76*	.79	.82	*.82*	.84	.84	*.84*	.84	.86	.87	.87	.73	.87	.56
4	.87	.88	.85	.85	.81	.79	.77	*.77*	.78	.77	*.77*	.78	.83	*.84*	.84	.84	*.85*	.85	.85	*.87*	.87	.87	.88	.87	.83	.88	.77
5	.87	.86	.87	.87	.87	.88	.86	*.85*	.86	.88	*.88*	.89	.88	*.87*	.86	.84	*.83*	.83	.83	*.80*	.80	.75	.71	.70	.84	.89	.70
6	.69	.65	.64	.60	.58	.58	.56	*.56*	.57	.57	*.58*	.63	.61	*.59*	.57	.56	*.51*	.51	.50	*.47*	.47	.46	.45	.44	.56	.69	.44
7	.40	.38	.37	.36	.36	.36	.34	*.32*	.34	.36	*.37*	.40	.41	*.41*	.42	.44	*.47*	.48	.52	*.54*	.55	.56	.57	.56	.43	.57	.32
8	.57	.58	.59	.60	.61	.60	.60	*.62*	.62	.62	*.58*	.59	.60	*.61*	.61	.63	*.64*	.65	.67	*.67*	.68	.69	.68	.68	.62	.69	.57
9	.67	.65	.64	.62	.61	.60	.59	*.59*	.61	.60	*.59*	.59	.59	*.59*	.60	.60	*.63*	.64	.65	*.65*	.65	.65	.65	.65	.62	.67	.59
10	.63	.60	.58	.57	.57	.57	.55	*.56*	.56	*.56*	*.54*	.54	.53	*.53*	.47	.46	*.45*	.44	.40	*.38*	.39	.39	.37	.33	.50	.63	.33
11	.32	.32	.30	.26	.24	.21	.16	*.14*	.13	.14	*.14*	.15	.16	*.16*	.19	.22	*.24*	.24	.25	*.26*	.25	.24	.24	.21	.22	.32	.13
12	.23	.21	.20	.20	.21	.21	.23	*.27*	.31	.33	*.35*	.38	.40	*.41*	.42	.44	*.45*	.47	.47	*.48*	.49	.51	.51	.52	.36	.52	.20
13	.52	.52	.50	.47	.48	.46	.45	*.45*	.47	.46	*.46*	.46	.48	*.48*	.49	.50	*.51*	.52	.54	*.56*	.56	.58	.59	.59	.50	.59	.45
14	.59	.59	.60	.60	.59	.59	.58	*.60*	.63	.65	*.64*	.65	.64	*.62*	.61	.59	*.57*	.57	.59	*.60*	.60	.59	.60	.60	.60	.65	.57
15	.58	.56	.54	.54	.54	.54	.54	*.54*	.55	.56	*.57*	.60	.60	*.60*	.60	.60	*.61*	.62	.63	*.65*	.66	.67	.67	.68	.59	.68	.54
16	.68	.67	.67	.66	.66	.67	.67	*.68*	.70	.71	*.72*	.72	.72	*.72*	.73	.74	*.75*	.76	.75	*.74*	.75	.76	.76	.76	.72	.76	.66
17	.77	.75	.74	.72	.71	.71	.72	*.72*	.73	.75	*.75*	.75	.75	*.75*	.73	.72	*.71*	.70	.71	*.71*	.71	.70	.69	.64	.72	.77	.64
18	.61	.60	.58	.57	.56	.55	.52	*.49*	.52	.53	*.53*	.53	.50	*.48*	.48	.50	*.47*	.46	.45	*.46*	.46	.47	.46	.45	.51	.61	.45
19	.42	.40	.40	.39	.38	.38	.38	*.40*	.44	.44	*.44*	.44	.45	*.45*	.44	.45	*.44*	.44	.44	*.44*	.44	.44	.43	.42	.42	.45	.38
20	.39	.37	.35	.35	.35	.36	.37	*.38*	.38	.37	*.38*	.41	.44	*.44*	.45	.48	*.50*	.53	.53	*.53*	.53	.53	.52	.51	.44	.53	.35
21	.49	.49	.50	.48	.47	.49	.50	*.51*	.52	.57	*.57*	.60	.63	*.63*	.64	.64	*.64*	.64	.65	*.65*	.65	.64	.65	.64	.58	.65	.47
22	.66	.66	.66	.66	.66	.66	.66	*.66*	.70	.73	*.75*	.75	.75	*.75*	.75	.75	*.75*	.75	.74	*.72*	.72	.73	.73	.71	.71	.75	.66
23	.70	.65	.64	.61	.59	.59	.57	*.57*	.58	.57	*.57*	.57	.62	*.59*	.64	.63	*.62*	.62	.61	*.61*	.60	.60	.60	.59	.61	.70	.57
24	.57	.55	.55	.54	.53	.52	.50	*.48*	.47	.52	*.54*	.55	.58	*.60*	.60	.61	*.60*	.59	.58	*.58*	.58	.59	.59	.59	.56	.61	.46
25	.50	.54	.52	.51	.50	.48	.47	*.46*	.46	.46	*.45*	.45	.45	*.43*	.42	.42	*.43*	.43	.45	*.45*	.45	.45	.45	.46	.47	.56	.42
26	.45	.44	.44	.43	.44	.45	.46	*.46*	.49	.52	*.54*	.56	.60	*.64*	.65	.65	*.66*	.68	.68	*.70*	.69	.70	.70	.70	.57	.70	.43
27	.69	.67	.65	.65	.64	.61	.60	*.60*	.66	.65	*.63*	.66	.67	*.67*	.65	.67	*.68*	.68	.68	*.68*	.68	.68	.67	.66	.66	.69	.59
28	.60	.65	.64	.61	.59	.59	.59	*.58*	.63	.61	*.62*	.62	.62	*.62*	.61	.60	*.58*	.58	.59	*.58*	.58	.57	.56	.56	.60	.66	.56
29	.54	.53	.54	.51	.50	.49	.48	*.47*	.46	.47	*.45*	.44	.43	*.42*	.42	.41	*.40*	.40	.41	*.42*	.42	.43	.43	.42	.45	.54	.40
30	.41	.40	.40	.38	.36	.35	.35	*.35*	.38	.40	*.42*	.42	.42	*.42*	.42	.43	*.44*	.44	.45	*.46*	.46	.47	.49	.49	.42	.49	.35
Mean..	.58	.57	.56	.55	.54	.54	.53	.53	.55	.56	.56	.57	.58	.58	.58	.59	.59	.59	.60	.60	.60	.60	.60	.59	.57	.65	.49

WIND.—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

April, 1893.]

Day.	1h a. m.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Noon.	Noon–1h p. m.
1	W. 28	W. 30	W. 27	SW. 19	W. 25	W. 28	W. 30	W. 33	W. 50	W. 59	W. 67	W. 55	W. 45
2	W. 45	W. 48	W. 47	W. 53	W. 47	W. 44	W. 49	W. 53	W. 48	W. 33	W. 53	W. 54	W. 53
3	W. 31	W. 48	W. 34	W. 42	W. 40	W. 49	W. 56	W. 65	*NW.* 53	NW. 52	NW. 46	NW. 49	W. 68
4	W. 47	W. 47	W. 52	W. 46	W. 57	W. 60	W. 66	W. 70	W. 70	W. 70	W. 70	W. 63	W. 51
5	W. 40	W. 41	W. 33	SW. 17	W. 25	W. 17	W. 32	W. 38	W. 29	W. 17	W. 13	SW. 7	SW. 8
6	SW. 55	SW. 60	SW. 60	SW. 60	SW. 60	SW. 57	SW. 51	SW. 59	SW. 57	SW. 58	SW. 51	SW. 46	SW. 45
7	S. 42	S. 41	S. 37	S. 35	S. 29	S. 24	S. 28	SW. 36	SW. 29	SW. 28	SW. 30	SW. 39	SW. 46
8	SW. 42	SW. 43	SW. 34	S. 28	W. 35	W. 31	SW. 32	SW. 31	SW. 29	SW. 28	SW. 30	SW. 30	SW. 27
9	SW. 20	SW. 26	SW. 28	S. 28	S. 26	S. 21	S. 22	S. 24	S. 18	S. 18	S. 22	SW. 21	SW. 26
10	SW. 36	SW. 44	SW. 47	SW. 49	SW. 43	SW. 40	SW. 39	SW. 43	SW. 42	SW. 47	SW. 50	SW. 47	SW. 47
11	SW. 44	SW. 37	SW. 28	S. 29	W. 27	SW. 40	W. 33	W. 37	W. 35	W. 24	W. 22	NW. 27	NW. 24
12	W. 31	W. 29	W. 29	W. 24	NW. 16	NW. 22	NW. 21	NW. 17	NW. 15	W. 15	W. 15	W. 12	W. 11
13	SW. 29	SW. 21	S. 22	SW. 20	S. 20	SE. 16	S. 21	SE. 23	SE. 22	S. 25	SE. 23	SE. 23	SE. 24
14	N. 24	NW. 31	NW. 33	NW. 28	N. 20	N. 24	N. 18	N. 19	N. 21	NW. 30	N. 19	W. 25	W. 25
15	W. 39	W. 44	W. 42	W. 39	W. 35	W. 32	W. 32	W. 28	W. 30	W. 32	W. 25	W. 13	*S.* 11
16	W. 21	W. 25	SW. 33	SW. 32	W. 25	W. 21	W. 22	W. 27	W. 35	W. 37	W. 31	SW. 28	SW. 29
17	SW. 26	SW. 32	W. 35	W. 41	W. 37	W. 32	W. 32	W. 26	W. 25	SW. 19	W. 22	W. 35	SW. 20
18	W. 47	W. 51	W. 45	W. 39	SW. 25	SW. 25	W. 30	W. 41	W. 38	NW. 25	W. 35	W. 34	SW. 20
19	N. 26	N. 24	N. 23	N. 22	N. 22	N. 23	N. 23	N. 23	N. 23	N. 20	N. 17	N. 13	N. 10
20	W. 45	W. 46	W. 42	NW. 32	N. 32	N. 26	N. 28	N. 34	N. 42	N. 56	N. 59	N. 53	N. 43
21	NW. 51	NW. 46	NW. 42	NW. 40	NW. 45	NW. 41	NW. 42	NW. 38	NW. 42	NW. 40	N. 28	N. 25	NW. 18
22	NW. 19	NW. 10	NW. 15	NW. 15	NW. 14	NW. 14	NW. 14	W. 20	W. 15	NW. 7	NW. 8	NW. 4	SW. 6
23	SW. 19	SW. 25	SW. 24	SW. 27	SW. 20	SW. 16	SW. 18	SW. 14	SW. 35	S W. 42	SW. 35	SW. 40	SW. 33
24	SW. 23	SW. 28	SW. 29	W. 29	W. 29	SW. 36	SW. 49	W. 61	W. 69	W. 56	SW. 52	SW. 48	SW. 25
25	*SW.* 32	S. 35	S. 33	*S.* 33	SW. 25	SW. 21	SW. 20	*SW.* 15	SW. 16	SW. 16	SW. 21	SW. 26	*SE.* 17
26	NW. 58	NW. 57	NW. 56	NW. 64	NW. 62	NW. 61	NW. 60	NW. 62	NW. 65	NW, 63	NW. 51	NW. 38	N. 25
27	SW. 28	SW. 24	SW. 21	SW. 17	SW. 16	SW. 25	SW. 33	SW. 38	SW. 46	SW. 54	SW. 57	SW. 48	SW. 46
28	SW. 21	SW. 24	S. 25	SW. 32	SW. 34	SW. 34	SW. 32	SW. 34	SW. 31	SW. 35	SW. 30	SW. 32	SW. 28
29	SW. 15	SW. 14	SW. 14	SW. 17	SW. 18	SW. 16	SW. 17	SW. 18	S. 21	S. 28	S. 33	S. 30	S. 33
30	SW. 21	SW. 21	SW. 21	SW. 20	SW. 21	SW. 24	SW. 20	SW. 17	SW. 29	NW. 20	NW. 10	W. 10	W. 12
Mean..	SW. 33.4	SW. 35.1	SW. 33.7	SW. 32.6	W. 31.0	SW. 30.7	SW. 32.3	W. 34.8	W. 36.2	W. SW. } 35.2	W. 34.3	SW. 32.5	SW. 29.2

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [April, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	14	14	13	12	12	11	10	*10*	10	10	*11*	13	14	*17*	17	18	*18*	19	20	*19*	17	15	13	13	14.2	21	10
2	13	14	14	14	14	14	14	*14*	15	15	*16*	18	19	*22*	24	25	*25*	25	24	*24*	22	21	20	20	18.6	26	13
3	17	16	16	15	15	14	14	*14*	15	15	*16*	17	19	*21*	23	25	*26*	25	23	*23*	20	20	19	19	18.6	26	14
4	19	18	17	17	17	17	17	*17*	19	21	*24*	24	25	*26*	26	27	*27*	26	26	*25*	22	21	21	20	21.6	28	15
5	19	19	19	19	19	19	18	*18*	20	23	*26*	27	26	*26*	28	28	*28*	27	27	*26*	24	22	21	20	22.9	29	18
6	20	19	19	18	18	18	18	*18*	18	19	*20*	22	23	*26*	27	26	*24*	24	22	*22*	22	21	19	17	20.8	28	16
7	15	14	12	11	9	9	6	*4*	4	4	*4*	4	6	*8*	10	11	*11*	12	10	*8*	5	4	3	4	7.8	11	4
8	4	6	7	6	4	2	1	*1*	1	0	*—1*	0	4	*7*	8	10	*11*	12	12	*11*	9	8	7	5	5.6	13	—1
9	5	4	4	4	4	4	4	*4*	4	7	*7*	9	11	*12*	12	12	*12*	11	11	*9*	8	9	7	5	7.5	14	4
10	6	6	6	8	8	8	8	*8*	9	*10*	*9*	12	14	*14*	16	18	*18*	18	19	*19*	20	18	16	14	12.6	19	5
11	13	12	9	8	7	6	5	*4*	2	2	*3*	4	4	*3*	3	5	*4*	4	2	*0*	—1	—1	—2	—2	3.9	5	0
12	—4	—4	—5	—5	—5	—5	—5	*—5*	—5	—3	*—2*	—1	1	*1*	3	4	*4*	5	5	*4*	3	3	4	5	—0.3	6	—5
13	5	5	4	3	1	0	—1	*—1*	—1	—1	*—1*	0	1	*1*	1	2	*0*	—1	—3	*—3*	—4	—3	—3	—4	—0.1	2	—3
14	—2	—2	—3	—3	—4	—4	—3	*—2*	5	7	*7*	8	9	*8*	7	8	*8*	8	8	*8*	5	4	5	4	3.6	11	—5
15	3	2	2	1	0	—1	—2	*—3*	0	0	*2*	3	3	*5*	6	8	*9*	8	8	*7*	4	3	2	2	3.0	10	—3
16	2	1	1	2	3	1	0	*3*	4	6	*7*	9	10	*12*	14	15	*16*	15	14	*13*	12	12	12	12	8.1	17	0
17	12	12	12	11	11	10	11	*11*	11	*13*	*14*	17	18	*18*	20	20	*20*	20	20	*19*	17	16	15	15	15.1	21	9
18	14	14	14	14	13	12	11	*11*	11	10	*11*	12	12	*15*	15	15	*11*	10	9	*8*	5	4	1	—3	10.4	17	8
19	—6	—5	—5	—7	—8	—9	—10	*—11*	—11	—11	*—8*	—6	—4	*—1*	—3	—4	*—5*	—5	—6	*—4*	—4	—5	—5	—4	—6.1	0	—12
20	—3	—3	—2	—2	—1	—1	—2	*—2*	—3	—4	*—5*	—4	—1	*0*	1	2	*3*	3	3	*4*	4	4	4	5	0	4	—5
21	5	5	5	5	6	6	6	*7*	7	9	*10*	12	14	*16*	16	16	*16*	16	16	*15*	14	13	13	13	10.9	17	4
22	13	13	13	13	13	13	13	*13*	14	14	*15*	16	18	*18*	19	19	*19*	19	19	*18*	17	16	18	18	15.9	20	12
23	19	19	19	19	18	18	18	*17*	16	16	*16*	16	18	*18*	20	20	*22*	23	24	*24*	22	21	20	20	19.3	26	14
24	19	18	18	15	14	13	13	*13*	12	*13*	*14*	17	20	*23*	24	25	*26*	26	25	*22*	20	19	18	17	18.4	27	11
25	17	14	11	11	9	9	8	*7*	7	9	*9*	10	9	*9*	9	9	*9*	9	9	*8*	8	7	7	7	9.2	11	7
26	5	5	4	3	3	3	3	*3*	4	4	*5*	7	9	*11*	13	13	*15*	16	16	*15*	13	12	11	10	8.5	18	2
27	10	10	10	10	10	10	10	*10*	10	10	*13*	17	20	*21*	23	24	*25*	23	24	*23*	21	20	20	20	16.3	25	10
28	19	19	18	18	17	17	16	*16*	16	16	*17*	18	21	*23*	24	24	*24*	21	21	*20*	19	19	18	18	19.1	26	15
29	17	17	16	15	15	14	14	*13*	13	12	*12*	12	12	*12*	11	9	*9*	8	5	*5*	4	4	4	3	10.7	13	5
30	3	3	3	3	2	2	2	*2*	3	2	*4*	5	8	*10*	10	9	*8*	8	6	*6*	5	4	4	4	4.8	10	2
Mean.	9.8	9.5	9.0	8.6	8.1	7.7	7.2	7.1	7.7	8.2	9.2	10.6	12.1	13.4	14.2	14.8	14.7	14.5	14.0	13.3	11.8	11.0	10.4	9.9	10.7	16.7	5.5

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[April, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	W.	43	W.	41	W.	40	W.	44	W.	46	W.	50	W.	48	W.	44	W.	40	W.	42	W.	44	74	W.
2	W.	42	W.	39	W.	36	W.	25	SW.	21	SW.	25	W.	29	W.	29	W.	32	W.	29	W.	33	62	W.
3	W.	66	W.	60	W.	57	W.	47	W.	47	W.	42	W.	50	W.	55	W.	53	W.	52	W.	52	74	W.
4	W.	34	W.	38	W.	38	W.	40	W.	32	W.	38	W.	32	W.	28	W.	28	W.	27	W.	40	82	W.
5	SW.	14	SW.	23	SW.	26	SW.	25	S.	26	SW.	22	SW.	23	SW.	31	SW.	40	SW.	65	SW.	61	78	SW.
6	S.	49	S.	42	S.	45	S.	54	S.	52	W.	54	W.	46	W.	44	SW.	45	S.	38	S.	37	70	SW.
7	SW.	43	SW.	46	SW.	45	SW.	46	SW.	40	SW.	34	SW.	27	SW.	27	SW.	31	W.	41	SW.	44	55	SW.
8	SW.	23	SW.	28	SW.	27	SW.	24	SW.	22	SW.	20	SW.	22	SW.	15	SW.	13	SW.	14	SW.	18	46	SW.
9	SW.	31	SW.	23	W.	28	W.	24	W.	17	W.	26	SW.	32	SW.	37	SW.	38	SW.	38	SW.	33	46	SW.
10	SW.	47	S.	52	S.	49	S.	39	S.	42	SW.	48	SW.	43	W.	37	W.	44	W.	45	W.	51	58	SW.
11	NW.	33	N.	41	NW.	37	NW.	35	NW.	35	W.	45	W.	44	W.	33	W.	48	W.	35	W.	37	59	W
12	W.	14	W.	15	W.	14	W.	13	SW.	19	W.	21	SW.	14	S.	13	S.	15	SW.	20	SW.	25	33	SW.
13	E.	20	E.	21	E.	20	E.	14	N.	18	N.	8	W.	7	W.	14	N.	17	N.	19	N.	23	32	SE.
14	SW.	28	SW.	30	W.	40	W.	48	W.	47	W.	41	W.	28	W.	28	W.	42	W.	42	W.	40	52	W
15	W.	18	W.	16	SW.	11	SW.	10	W.	14	W.	18	W.	14	NW.	6	NW.	10	W.	20	W.	21	50	W.
16	W.	31	W.	26	W.	20	W.	20	W.	18	W.	20	W.	27	SW.	20	SW.	24	SW.	27	SW.	28	44	W.
17	SW.	23	SW.	24	SW.	35	SW.	38	SW.	34	W.	37	W.	29	W.	24	W.	26	W.	31	W.	39	49	SW.
18	SW.	25	SW.	27	SW.	27	W.	22	W.	31	W.	35	N.	30	N.	17	N.	16	N.	21	N.	24	57	W.
19	N.	10	W.	11	N.	10	N.	14	N.	14	N.	22	N.	32	N.	20	NW.	19	W.	41	W.	39	50	W.
20	N.	31	NW.	48	NW.	41	NW.	39	NW.	25	NW.	31	NW.	39	NW.	39	NW.	41	NW.	51	NW.	51	70	N.
21	NW.	19	NW.	22	NW.	24	NW.	16	NW.	30	NW.	27	NW.	29	NW.	28	NW.	38	NW.	37	NW.	35	56	NW.
22	W.	11	W.	13	SW.	15	SW.	15	SW.	22	SW.	27	SW.	33	SW.	25	SW.	23	SW.	19	SW.	19	36	SW.
23	SW.	41	SW.	28	SW.	29	SW.	28	SW.	26	SW.	22	SW.	21	*SW.*	18	*S.*	20	SW.	18	S.	19	49	SW.
24	SW.	22	SW.	21	SW.	18	SW.	19	SW.	24	SW.	28	SW.	24	SW.	23	*SW.*	16	S.	21	*S.*	29	72	W.
25	S.	20	SW.	14	SW.	12	SW.	11	*W.*	13	N.	13	NE.	18	NE.	31	NW.	51	NW.	59	NW.	54	65	NW.
26	N.	28	*NW.*	18	SW.	26	SW.	15	SW.	12	SW.	16	SW.	23	SW.	19	SW.	19	SW.	24	SW.	26	70	NW.
27	SW.	42	*S.*	29	SW.	29	SW.	27	SW.	27	SW.	33	SW.	29	SW.	34	SW.	35	SW.	41	SW.	38	60	SW.
28	S.	25	SW.	25	W.	24	SW.	24	SW.	24	SW.	25	S.	30	*SE.*	23	SE.	19	S.	19	SW.	17	42	SW.
29	S.	26	S.	19	SW.	21	SW.	23	SW.	23	SW.	22	SW.	18	SW.	19	SW.	22	SW.	23	SW.	20	38	S.
30	W.	16	W.	17	W.	16	NW.	12	NW.	17	NW.	20	NW.	19	NW.	18	NW.	15	NW.	12	NW.	20	36	SW.
Mean.	SW.	29.2	SW.	28.6	SW.	28.7	SW.	27.0	SW.	27.3	W. SW.	29.0	SW.	28.8	SW.	26.6	SW.	29.3	W.	32.4	SW.	33.9	.....	.....

PIKES PEAK, COLO.

PRESSURE, 17 INCHES +.

NOTE.—All eye readings are printed in *italics*.

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.49	.48	.47	.46	.46	.47	.48	.49	.52	.53	.55	.56	.56	.56	.57	.58	.58	.57	.59	.58	.61	.62	.63	.64	.54	.64	.46
2	.64	.63	.63	.64	.63	.62	.62	.62	.64	.65	.65	.66	.68	.68	.68	.67	.67	.68	.70	.70	.70	.70	.69	.69	.66	.70	.62
3	.69	.66	.65	.63	.62	.60	.59	.60	.61	.60	.59	.60	.63	.65	.64	.64	.63	.63	.61	.61	.60	.60	.58	.58	.62	.69	.58
4	.57	.55	.55	.51	.49	.49	.47	.49	.50	.53	.51	.50	.50	.51	.51	.52	.52	.54	.57	.58	.58	.59	.59	.59	.53	.59	.47
5	.60	.59	.58	.56	.54	.54	.54	.55	.56	.57	.58	.58	.57	.57	.56	.56	.56	.56	.56	.56	.57	.58	.59	.58	.57	.60	.54
6	.57	.57	.57	.58	.58	.58	.59	.59	.60	.61	.62	.63	.63	.63	.64	.64	.65	.65	.66	.67	.68	.68	.69	.69	.62	.69	.57
7	.69	.69	.69	.66	.68	.67	.67	.67	.67	.66	.66	.66	.68	.68	.68	.67	.67	.67	.67	.67	.67	.68	.68	.68	.67	.69	.65
8	.67	.66	.65	.64	.63	.62	.62	.62	.64	.63	.63	.64	.66	.66	.66	.65	.66	.67	.67	.69	.69	.69	.70	.70	.66	.70	.62
9	.70	.68	.67	.64	.62	.62	.65	.67	.68	.68	.68	.70	.75	.77	.77	.77	.77	.78	.81	.83	.84	.85	.86	.86	.74	.86	.62
10	.86	.86	.85	.84	.83	.83	.84	.84	.84	.86	.85	.86	.88	.89	.85	.87	.87	.87	.88	.90	.90	.91	.89	.89	.86	.91	.83
11	.88	.88	.86	.87	.89	.90	.91	.94	.97	.97	.99	.99	1.01	1.04	1.04	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	.98	1.05	.86
12	1.01	1.00	.98	.97	.97	.97	.97	.98	1.01	1.01	1.01	1.01	1.01	1.00	.99	.98	.97	.96	.93	.92	.91	.90	.90	.90	.97	1.01	.90
13	.88	.87	.84	.83	.80	.80	.80	.80	.80	.78	.77	.77	.75	.75	.75	.72	.71	.71	.71	.71	.70	.70	.71	.70	.76	.88	.70
14	.69	.68	.68	.67	.67	.68	.68	.70	.72	.72	.75	.75	.78	.79	.80	.81	.82	.82	.83	.84	.84	.84	.85	.86	.76	.86	.67
15	.86	.86	.87	.87	.86	.87	.88	.90	.94	.94	.95	.95	.96	.98	.98	.98	.98	.99	.99	.99	.98	.99	1.00	1.00	.94	1.00	.86
16	1.00	1.00	1.00	1.00	1.00	.99	.99	1.02	1.04	1.04	1.04	1.04	1.05	1.04	1.03	1.02	1.03	1.01	1.00	1.00	1.00	1.00	1.00	1.01	1.05	.99
17	.98	.97	.96	.94	.94	.92	.92	.93	.93	.93	.93	.93	.93	.93	.92	.90	.89	.88	.87	.87	.86	.85	.84	.83	.91	.98	.83
18	.82	.80	.75	.73	.73	.70	.70	.68	.68	.67	.64	.64	.62	.61	.55	.55	.52	.51	.48	.49	.47	.42	.40	.43	.61	.82	.40
19	.46	.45	.45	.44	.44	.47	.49	.54	.58	.59	.60	.61	.65	.67	.68	.69	.70	.73	.74	.77	.77	.77	.78	.78	.62	.78	.44
20	.78	.78	.79	.79	.79	.80	.82	.83	.84	.86	.84	.84	.84	.83	.83	.85	.84	.83	.83	.81	.79	.78	.78	.76	.81	.86	.76
21	.73	.71	.70	.67	.66	.61	.58	.60	.60	.59	.60	.62	.61	.61	.61	.59	.58	.59	.56	.56	.56	.55	.54	.54	.61	.73	.54
22	.54	.54	.51	.51	.48	.48	.50	.54	.54	.55	.60	.65	.67	.69	.70	.73	.76	.77	.78	.79	.79	.79	.79	.79	.64	.79	.48
23	.77	.73	.70	.68	.67	.66	.66	.66	.64	.64	.64	.69	.70	.71	.70	.68	.68	.68	.69	.68	.68	.68	.68	.68	.65	.77	.64
24	.64	.64	.62	.61	.61	.61	.62	.66	.68	.68	.68	.68	.70	.70	.71	.72	.72	.72	.72	.72	.73	.73	.74	.74	.68	.74	.61
25	.73	.70	.67	.66	.65	.62	.63	.64	.64	.64	.64	.64	.64	.62	.60	.53	.60	.60	.61	.64	.66	.68	.69	.67	.64	.73	.59
26	.66	.65	.64	.63	.63	.63	.65	.68	.70	.70	.70	.72	.73	.73	.73	.72	.72	.73	.74	.75	.76	.77	.77	.77	.70	.77	.63
27	.78	.78	.78	.78	.77	.77	.77	.77	.79	.79	.79	.79	.79	.79	.79	.79	.78	.79	.79	.80	.81	.82	.83	.84	.79	.84	.77
28	.84	.83	.82	.81	.80	.78	.78	.78	.78	.80	.82	.83	.84	.85	.86	.86	.85	.84	.85	.86	.86	.87	.89	.89	.83	.89	.78
29	.89	.88	.87	.87	.87	.86	.84	.81	.79	.81	.81	.82	.85	.85	.86	.86	.85	.84	.83	.84	.85	.84	.84	.83	.84	.89	.79
30	.82	.79	.74	.71	.69	.68	.63	.63	.63	.63	.62	.62	.65	.64	.65	.67	.66	.66	.67	.68	.70	.68	.70	.70	.68	.82	.62
31	.71	.71	.73	.73	.73	.74	.76	.78	.78	.80	.80	.81	.81	.82	.83	.83	.81	.80	.79	.78	.77	.77	.78	.78	.78	.83	.71
Mean.	.74	.73	.72	.71	.70	.70	.70	.71	.72	.72	.73	.74	.75	.75	.75	.75	.74	.75	.75	.75	.75	.75	.76	.76	.73	.81	.66

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

Day.	0–1h a.m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p.m.	
1	W.	37	W.	42	W.	37	W.	38	W.	34	*NW.*	23	NW.	18	NW.	8	N.	3	E.	3	*N.*	6	N.	4	*W.*	6
2	W.	10	SW.	8	SW.	9	SW.	14	*W.*	20	W.	19	W.	22	W.	25	W.	30	W.	31	NW.	28	*NW.*	27	W.	22
3	W.	46	W.	52	W.	47	SW.	37	SW.	32	W.	35	W.	31	W.	28	W.	25	W.	30	W.	40	W.	45	*W.*	33
4	SW.	48	SW.	42	SW.	28	W.	38	*NW.*	36	NW.	33	W.	39	W.	33	W.	27	SW.	18	SW.	17	W.	21	W.	26
5	SW.	39	SW.	28	SW.	33	SW.	34	SW.	40	SW.	43	SW.	47	SW.	36	SW.	25	W.	24	SW.	24	SW.	25	SW.	25
6	SE.	16	S.	17	S.	13	S.	12	S.	9	*SE.*	8	SW.	9	SW.	5	*S.*	17	SW.	15	SW.	8	*SW.*	5	SE.	6
7	SW.	6	SW.	8	SW.	8	SW.	7	SW.	6	SW.	5	SW.	7	SW.	9	SW.	10	SW.	9	W.	9	*SW.*	10	NW.	4
8	NW.	8	NW.	6	N.	6	NW.	7	NW.	8	NW.	9	NW.	5	NW.	8	NW.	22	*NW.*	22	W.	23	W.	12	W.	5
9	W.	20	W.	29	W.	30	W.	34	W.	38	W.	40	*NW.*	34	NW.	30	*W.*	47	W.	62	W.	58	W.	44	W.	33
10	W.	44	*SW.*	44	SW.	40	SW.	47	SW.	49	SW.	41	SW.	47	SW.	53	SW.	48	SW.	40	W.	40	*W.*	35	SW.	29
11	W.	48	SW.	51	SW.	59	W.	62	W.	48	W.	38	W.	38	NW.	34	NW.	34	NE.	31	NE.	33	NE.	27	NE.	26
12	SW.	25	SW.	30	SW.	41	*W.*	43	W.	43	W.	49	W.	36	NW.	30	NW.	30	NW.	31	NW.	21	NW.	21	*NW.*	12
13	E.	21	E.	22	SE.	19	SE.	21	SE.	20	E.	18	E.	24	E.	18	E.	22	E.	23	E.	28	E.	33	E.	33
14	E.	43	E.	42	NE.	36	NE.	32	E.	23	E.	20	E.	22	E.	15	E.	13	E.	12	E.	9	NE.	10	NE.	7
15	NE.	15	NE.	18	NE.	13	NE.	13	NE.	12	NE.	14	NE.	15	NE.	11	NE.	11	NE.	13	NE.	12	NE.	12	NE.	11
16	S.	7	SW.	18	W.	23	W.	23	W.	21	W.	25	NW.	24	N.	17	N.	14	N.	12	NE.	8	NE.	7	N.	5
17	SW.	24	SW.	27	SW.	26	W.	29	W.	29	W.	33	W.	34	W.	32	W.	39	W.	40	W.	34	W.	19	W.	16
18	W.	26	W.	26	W.	36	W.	49	W.	48	W.	41	W.	44	SW.	43	W.	56	SW.	65	SW.	51	SW.	45	*S.*	41
19	W.	70	W.	71	W.	70	W.	63	W.	56	NW.	53	W.	54	W.	51	W.	53	W.	60	W.	63	W.	56	W.	47
20	W.	51	SW.	41	SW.	42	SW.	46	SW.	38	SW.	35	SW.	36	SW.	35	SW.	34	SW.	22	SW.	22	SW.	26	SW.	23
21	SW.	55	SW.	60	SW.	57	SW.	57	W.	59	W.	71	W.	75	W.	73	W.	69	W.	67	W.	46	SW.	26	S.	20
22	NE.	25	NE.	26	NE.	26	NE.	30	NE.	32	NE.	37	NE.	34	NE.	28	NE.	24	NE.	16	NE.	15	NE.	16	NE.	26
23	W.	18	W.	21	W.	23	W.	30	W.	36	W.	42	W.	44	W.	50	W.	58	W.	55	W.	71	W.	68	W.	46
24	SW.	44	SW.	42	SW.	45	S.	45	S.	43	S.	43	S.	45	S.	35	S.	30	SW.	31	SW.	33	SW.	31	SW.	33
25	E.	7	E.	*8	E.	*9	W.	*6	W.	5	W.	*6	W.	*6	W.	*20	W.	*48	W.	46	W.	*40	W.	*36	W.	*40
26	W.	35	W.	*36	W.	*44	W.	45	W.	40	W.	*38	W.	*35	SW.	*30	SW.	*24	SW.	26	SW.	25	SW.	23	S.	20
27	S.	8	S.	9	S.	8	S.	7	S.	7	S.	5	S.	4	*NW.*	5	SW.	14	SW.	19	SW.	18	SW.	17	SW.	15
28	SW.	13	SW.	15	SW.	15	SW.	11	SW.	12	W.	15	W.	12	NW.	10	NW.	26	NW.	25	N.	9	NE.	7	NE.	6
29	*SW.*	25	S.	17	SW.	14	SW.	11	W.	11	W.	12	W.	26	W.	40	W.	57	W.	59	W.	53	W.	47	W.	41
30	SW.	25	SW.	23	SW.	33	SW.	33	SW.	34	SW.	36	SW.	39	SW.	28	SW.	24	SW.	22	*SW.*	23	W.	33	NW.	18
31	NW.	54	*N.*	38	NE.	36	NE.	35	NE.	32	NE.	27	NE.	24	NE.	17	NE.	10	NE.	7	NE.	4	NE.	5	NE.	6
Mean.	W. SW.	29.5	SW.	29.6	SW.	29.7	W.	31.1	W.	29.7	W.	29.5	W.	30.0	W.	27.6	W.	30.4	W.	30.2	W.	28.3	W.	25.5	W.	22.0

* Interpolated.

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian time.] [May, 1893.

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	2	1	0	0	0	−1	0	1	2	5	5	7	9	10	11	11	11	8	8	7	6	6	5	5	5.0	14	−2
2	5	5	5	5	5	5	5	5	6	6	8	8	12	13	14	13	14	13	13	13	12	11	11	10	9.0	15	4
3	10	10	10	10	11	11	12	13	12	13	15	16	18	19	19	18	18	18	19	18	17	17	16	17	14.8	20	10
4	17	17	17	14	14	13	11	11	12	11	11	11	8	9	10	13	15	17	19	18	17	16	16	17	13.9	19	6
5	17	15	13	12	11	9	12	14	14	13	14	14	14	15	14	14	16	16	16	17	17	15	14	13	14.1	18	7
6	12	12	13	13	13	13	13	12	12	11	13	14	14	17	17	16	15	14	12	11	9	8	8	8	12.5	20	10
7	9	9	11	11	11	11	10	9	10	10	11	11	12	15	14	16	14	14	14	13	12	11	11	11	11.7	16	7
8	11	11	11	11	10	10	10	10	9	8	10	12	16	17	18	18	18	18	18	16	17	17	17	17	13.8	18	8
9	15	14	13	14	14	14	13	13	14	15	16	18	20	22	24	25	26	26	26	25	24	23	22	23	19.1	27	10
10	23	23	23	23	22	22	22	22	23	24	25	26	27	27	29	29	30	29	30	30	28	27	25	24	25.5	30	20
11	23	22	19	19	18	18	18	19	20	21	22	22	24	25	27	28	29	30	30	29	28	27	26	26	23.8	32	16
12	26	26	25	25	25	27	29	29	30	30	31	31	33	35	36	38	36	36	35	34	32	30	30	30	30.8	40	23
13	30	30	29	29	29	29	28	29	28	29	27	27	27	27	27	26	26	27	26	25	25	24	23	23	27.0	30	25
14	22	23	23	24	23	21	21	21	22	23	24	25	25	26	26	27	27	27	27	27	28	27	26	26	24.6	28	19
15	26	26	26	26	26	25	25	26	26	27	28	29	30	31	31	27	27	30	29	27	28	28	27	26	27.5	32	23
16	26	26	27	27	29	28	29	30	31	31	33	35	35	35	31	33	35	33	32	30	29	29	29	28	30.5	37	25
17	28	28	27	28	28	28	28	28	29	29	31	33	34	37	37	39	40	39	39	37	36	35	34	33	32.7	40	26
18	33	31	30	30	29	29	28	28	28	31	30	31	34	35	36	36	36	35	30	24	17	13	10	9	28.0	37	24
19	8	7	6	5	4	4	4	6	9	12	12	15	17	18	20	23	23	23	22	22	19	18	18	18	13.9	25	4
20	18	18	18	18	18	18	18	18	18	21	23	24	27	29	30	33	34	33	32	32	28	27	26	25	24.4	35	16
21	24	24	22	21	20	19	18	18	18	20	23	25	27	28	30	27	28	25	21	19	17	12	10	11	21.1	30	18
22	11	10	10	9	9	9	9	8	9	9	9	10	10	11	11	12	13	14	14	14	14	13	12	11	10.9	15	7
23	11	11	12	12	12	13	12	13	13	15	17	20	23	26	27	26	28	26	28	26	25	23	22	22	19.3	28	11
24	22	21	21	21	20	20	19	20	20	21	24	25	26	29	30	30	26	24	22	23	23	22	22	22	23.1	31	19
25	22	21	20	19	17	16	15	18	19	19	22	24	25	27	28	29	30	30	29	28	25	23	21	19	22.8	31	15
26	18	18	18	17	16	16	16	16	16	18	19	20	22	24	24	25	26	25	23	22	22	22	21	21	20.2	27	14
27	20	19	18	18	17	17	16	16	16	18	19	20	22	25	25	24	25	24	25	24	23	22	21	21	20.4	26	16
28	20	20	19	18	18	17	16	15	13	15	18	21	23	25	27	28	27	26	25	24	23	22	21	22	21.0	28	13
29	22	23	23	23	22	20	17	18	19	21	23	26	29	31	33	35	37	37	37	35	33	32	29	28	27.2	37	16
30	20	24	24	24	23	22	22	22	22	22	23	23	24	24	25	26	26	25	24	23	20	19	18	17	22.8	26	22
31	18	20	20	20	20	20	20	21	23	23	25	27	28	31	32	34	35	34	33	30	27	26	25	24	25.7	37	15
Mean..	18.5	18.2	17.8	17.6	17.2	16.9	16.6	17.0	17.5	18.4	19.7	21.0	22.4	24.0	24.6	25.1	25.6	25.0	24.4	23.2	21.9	20.7	19.9	19.6	20.5	27.4	14.4

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[May, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	NW.	8	NW.	9	NW.	10	SW.	8	E.	7	NE.	8	NE.	5	NE.	6	NE.	2	W.	7	W.	7	46	W.
2	*NW.*	11	NW.	8	*N.*	10	N.	10	NW.	10	NW.	12	NW.	18	*NW.*	19	W.	30	W.	39	W.	40	43	W.
3	SW.	25	SW.	27	SW.	26	SW.	23	SW.	34	W.	40	W.	39	W.	46	SW.	44	SW.	55	SW.	48	59	SW.
4	W.	30	W.	40	W.	51	W.	53	W.	52	W.	43	W.	37	W.	41	SW.	38	SW.	41	SW.	51	60	W.
5	S.	26	S.	26	SE.	22	SE.	21	SE.	20	SE.	23	SE.	14	SE.	9	SE.	10	SE.	17	SE.	15	53	SW.
6	SE.	6	SE.	7	*S.*	7	SW.	9	SW.	14	SW.	18	SW.	14	SW.	12	SW.	13	SW.	10	SW	8	24	S.
7	N.	4	*N.*	5	N.	5	NE.	6	NE.	8	NE.	8	NE.	6	NE.	4	N.	6	N.	6	NW.	9	14	SW.
8	W.	10	W.	11	W.	14	NW.	10	NW.	12	NW.	6	W.	21	W.	17	SW.	24	W.	34	SW.	27	39	W.
9	W.	29	W.	34	W.	41	W.	27	W.	27	W.	30	W.	26	W.	27	W.	26	W.	25	W.	33	65	W.
10	SW.	33	SW.	44	SW.	34	SW.	28	SW.	28	SW.	28	SW.	29	SW.	28	*SW.*	37	*W.*	46	W.	46	58	SW.
11	NE.	14	NW.	12	*NW.*	16	W.	18	W.	16	W.	16	W.	17	W.	19	W.	19	SW.	21	SW.	20	68	W.
12	W.	8	W.	13	W.	6	*SE.*	7	E.	10	E.	14	E.	16	E.	16	E.	17	E.	19	E.	21	55	W.
13	E.	29	E.	26	E.	31	E.	27	E.	26	E.	27	E.	31	E.	35	E.	33	E.	37	E.	39	46	E.
14	NE.	6	E.	14	E.	18	E.	17	E.	12	NE.	9	NE.	7	NE.	6	NE.	8	NE.	12	NE.	15	47	E.
15	NE.	16	E.	20	E.	18	NE.	12	E.	13	E.	15	E.	13	N.	12	NW.	8	*N.*	5	NE.	4	26	NW.
16	SE.	5	N.	7	W.	7	W.	7	SW.	17	S.	15	SE.	13	S.	14	S.	15	S.	14	SW.	19	30	NW.
17	SW.	12	SW.	13	SW.	14	SW.	13	SW.	18	SW.	14	W.	17	SW.	12	SW.	19	SW.	23	SW.	27	42	W.
18	*W.*	33	SW.	47	SW.	48	SW.	48	W.	53	W.	51	SW.	43	SW.	36	W.	56	W.	69	W	79	88	W.
19	W.	45	W.	40	W.	35	W.	31	W.	27	W.	22	W.	25	W.	33	W.	39	W.	47	W.	45	78	W.
20	SW.	28	S.	29	*S.*	25	SW.	27	SW.	27	SW.	25	SW.	27	W.	34	W.	35	SW.	41	SW.	54	60	SW.
21	*W.*	20	S.	21	S.	20	SW.	19	SW.	14	W.	18	W.	18	W.	16	W.	24	NW.	30	N.	27	80	W.
22	NE.	23	NE.	16	NE.	16	NE.	13	N.	8	NW.	13	NW.	14	W.	11	W.	14	W.	13	W.	15	44	NE.
23	W.	33	*SW.*	22	SW.	29	SW.	38	SW.	25	SW.	28	*S.*	26	S.	31	SW.	26	SW.	31	SW.	37	89	W.
24	S.	36	S.	30	S.	25	SW.	25	SE.	21	E	*28	E.	25	E.	17	E.	15	E.	11	E.	10	58	SW.
25	W.	*44	W.	*50	W.	52	W.	51	W.	48	W.	48	W.	42	W.	34	W.	*26	W.	*22	W.	34	60	W.
26	S.	19	S.	23	S.	20	S.	16	SW.	16	S.	10	S.	10	S.	16	*S.*	13	S.	11	S.	10	51	W.
27	S.	16	SW.	18	*S.*	19	SW.	20	SW.	21	SW.	17	W.	16	W.	19	W.	14	W.	14	*SW.*	13	28	W.
28	NW.	7	NW.	9	*NW.*	12	SW.	14	SW.	16	S.	17	S.	16	S.	15	S.	16	SW.	17	*S.*	21	32	NW.
29	W.	35	W.	26	W.	19	W.	15	W.	21	W.	23	W.	20	W.	18	W.	19	W.	24	SW.	23	64	W.
30	NW.	17	NW.	21	NW.	26	NW.	26	NW.	35	NW.	41	NW.	43	NW.	41	NW.	50	NW.	55	NW.	58	62	NW.
31	NW.	8	NW.	8	W.	9	*W.*	15	SW.	18	SW.	21	*SW.*	23	S.	27	SW.	24	SW.	23	SW.	24	60	NW.
Mean..	W.	20.3	W.	21.8	W.	22.1	SW.	21.1	SW.	21.7	W.	22.2	W.	21.6	W.	21.6	W.	23.2	W.	26.4	SW.	28.4	.....	.....

* Interpolated.

PIKES PEAK, COLO.

PRESSURE, 17 INCHES+.

NOTE.—All eye readings are printed in *italics*.

June, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.77	.76	.74	.73	.74	.74	.74	.74	.73	.74	*.73*	.74	.73	*.73*	.74	.74	.74	.75	.75	.75	.75	.75	.75	.76	.74	.77	.73
2	.76	.75	.75	.74	.73	.72	.72	*.72*	.72	.72	*.74*	.75	.75	.74	.76	.76	*.75*	.73	.73	.74	.74	.75	.75	.74	.74	.76	.72
3	.73	.72	.71	.69	.69	.70	.71	*.72*	.71	.72	*.72*	.71	.71	*.71*	.73	.73	*.74*	.73	.70	*.69*	.69	.71	.71	.71	.71	.74	.69
4	.72	.72	.71	.72	.71	.70	.70	.70	.71	.73	*.75*	.77	.77	*.77*	.78	.78	*.79*	.80	.80	*.81*	.82	.83	.84	.85	.76	.85	.70
5	.86	.86	.85	.85	.84	.84	.84	*.83*	.83	.83	*.83*	.84	.86	*.88*	.90	.90	*.90*	.92	.92	*.93*	.94	.94	.95	.96	.88	.96	.83
6	.96	.95	.95	.94	.94	.94	.95	*.96*	.99	1.01	*1.02*	1.02	1.03	*1.03*	1.05	1.05	*1.05*	1.05	1.05	*1.05*	1.05	1.06	1.06	1.06	1.01	1.06	.94
7	1.06	1.06	1.06	1.05	1.04	1.03	1.03	*1.02*	1.02	1.02	*1.03*	1.03	1.03	*1.03*	1.03	1.02	*1.01*	1.00	.99	*.98*	.98	.97	.98	.98	1.02	1.06	.97
8	.97	.94	.94	.93	.92	.92	.91	*.92*	.92	.95	*.98*	1.00	.99	*.99*	1.00	1.01	*1.02*	1.01	.99	*.98*	.98	.97	.98	.98	.97	1.02	.91
9	.98	.96	.95	.95	.95	.95	.94	*.94*	.94	.95	*.96*	.96	.98	*.98*	.99	.99	*1.00*	1.00	1.00	*1.00*	1.01	1.01	1.01	1.02	.98	1.02	.94
10	1.03	1.03	1.03	1.03	1.03	1.03	1.03	*1.04*	1.04	1.06	*1.07*	1.08	1.08	*1.08*	1.09	1.09	*1.09*	1.08	1.06	*1.05*	1.05	1.06	1.06	1.06	1.06	1.09	1.03
11	1.06	1.05	1.04	1.04	1.04	1.03	1.04	*1.04*	1.04	1.05	*1.04*	1.04	1.04	*1.02*	1.03	1.02	*1.02*	1.02	1.01	*.98*	.98	.98	.98	.99	1.02	1.06	.98
12	.98	.97	.96	.96	.95	.95	.95	*.95*	.95	.95	*.97*	.97	.97	*.96*	.96	.96	*.95*	.94	.92	*.91*	.91	.89	.87	.86	.94	.98	.86
13	.85	.84	.80	.79	.78	.77	.75	*.73*	.70	.75	*.74*	.80	.86	*.87*	.87	.90	*.90*	.89	.88	*.88*	.88	.88	.88	.88	.83	.90	.70
14	.88	.89	.88	.88	.88	.89	.89	*.90*	.89	.89	*.88*	.90	.91	*.92*	.92	.92	*.91*	.90	.90	*.89*	.89	.90	.90	.90	.90	.92	.88
15	.90	.90	.91	.91	.91	.91	.91	*.92*	.94	.94	*.96*	.97	.97	*.99*	1.00	1.00	*1.01*	1.01	1.01	*1.01*	1.01	1.01	1.02	1.03	.97	1.03	.90
16	1.04	1.04	1.04	1.04	1.04	1.05	1.05	*1.05*	1.05	1.06	*1.07*	1.07	1.08	*1.08*	1.07	1.07	*1.07*	1.05	1.05	*1.06*	1.07	1.09	1.09	1.09	1.06	1.09	1.04
17	1.09	1.10	1.10	1.10	1.10	1.11	1.11	*1.11*	1.11	1.12	*1.12*	1.12	1.13	*1.13*	1.14	1.13	*1.12*	1.12	1.11	*1.11*	1.10	1.11	1.11	1.12	1.11	1.14	1.09
18	1.12	1.10	1.10	1.11	1.10	1.10	1.10	*1.10*	1.10	1.10	*1.10*	1.10	1.09	*1.08*	1.08	1.08	*1.08*	1.07	1.06	*1.04*	1.03	1.03	1.04	1.04	1.08	1.12	1.03
19	1.04	1.03	1.03	1.02	1.01	1.02	1.02	*1.03*	1.02	1.02	*1.02*	1.03	1.03	*1.03*	1.03	1.03	*1.03*	1.02	1.01	*1.01*	1.01	1.01	1.02	1.02	1.02	1.04	1.01
20	1.02	1.02	1.01	1.00	.99	1.00	1.00	*1.00*	1.00	1.02	*1.03*	1.03	1.04	*1.05*	1.05	1.05	*1.04*	1.04	1.04	*1.04*	1.04	1.04	1.05	1.05	1.03	1.05	.99
21	1.04	1.01	1.01	1.00	1.00	1.01	1.02	*1.02*	1.03	1.05	*1.07*	1.08	1.09	*1.08*	1.08	1.03	*1.08*	1.08	1.08	*1.07*	1.07	1.07	1.07	1.07	1.05	1.09	1.00
22	1.05	1.04	1.04	1.03	1.02	1.03	1.04	*1.05*	1.07	1.09	*1.09*	1.08	1.07	*1.06*	1.06	1.04	*1.04*	1.04	1.04	*1.04*	1.02	.98	.98	.98	1.04	1.09	.98
23	.99	.92	.90	.90	.90	.90	.90	*.91*	.93	.94	*.95*	.96	.97	*.97*	.98	.99	*1.00*	1.01	1.00	*1.01*	1.02	1.02	1.03	1.04	.93	1.04	.90
24	1.02	1.02	1.00	1.00	1.00	1.01	1.01	*1.02*	1.03	1.04	*1.05*	1.05	1.05	*1.05*	1.06	1.07	*1.07*	1.07	1.07	*1.06*	1.06	1.06	1.06	1.08	1.04	1.08	1.00
25	1.09	1.09	1.08	1.07	1.08	1.08	1.08	*1.08*	1.08	1.08	*1.08*	1.09	1.09	*1.09*	1.09	1.08	*1.07*	1.07	1.06	*1.05*	1.05	1.05	1.04	1.04	1.07	1.09	1.04
26	1.04	1.04	1.04	1.03	1.04	1.04	1.04	*1.05*	1.05	*1.05*	*1.05*	1.04	1.04	*1.04*	1.03	1.00	*.98*	1.01	.97	*.90*	.91	.97	.99	1.00	1.02	1.05	.90
27	.99	.96	.95	.94	.95	.96	.97	*.99*	.98	1.00	*1.00*	1.00	1.01	*1.02*	1.02	1.00	*1.00*	1.00	1.00	*1.00*	1.00	1.00	1.01	1.01	.99	1.02	.94
28	1.00	1.00	1.00	.96	.95	.94	.95	*.98*	.99	.99	*.99*	1.00	1.00	*1.01*	1.01	.99	*.99*	.99	.99	*.99*	.99	.99	.99	1.00	.99	1.01	.94
29	.99	.98	.97	.96	.96	.96	.97	*.98*	.98	*.98*	.99	.98	*.98*	.98	.97	*.96*	.96	.96	.96	*.96*	.96	.96	.96	.97	.97	.99	.96
30	.97	.97	.98	.98	.99	.99	1.00	*1.00*	*1.01*	*1.02*	*1.03*	1.04	1.05	*1.05*	1.05	1.05	*1.04*	1.04	1.02	*1.02*	1.02	1.02	1.03	1.04	1.02	1.05	.97
Mean	.97	.96	.95	.94	.94	.94	.94	.95	.95	.96	.97	.98	.98	.98	.99	.98	.98	.98	.97	.97	.97	.97	.97	.98	.97	1.01	.92

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

June, 1893.]

Day.	0–1h		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11-Noon.		Noon–1h p. m.	
1	SW.	29	W.	26	W.	29	NW.	22	N.	18	N.	14	N.	10	NW.	9	NE.	3	E.	7	E.	6	E.	9	E.	11
2	N.	18	N.	19	N.	16	N.	10	N.	13	N.	14	NW.	13	NW.	13	*NW.*	19	*NE.*	15	SE.	8	SW.	9	SW.	9
3	W.	28	W.	40	W.	38	SW.	38	SW.	32	SW.	33	SW.	26	SW.	23	S.	20	*SE.*	19	S.	21	SW.	19	*S.*	22
4	W.	21	W.	16	W.	22	W.	16	W.	23	W.	19	W.	24	NW.	20	*N.*	24	N.	24	*NE.*	12	NE.	6	W.	7
5	N.	15	N.	17	NW.	13	NW.	22	NW.	22	NW.	24	NW.	24	NW.	21	NW.	15	NW.	10	W.	17	W.	20	W.	17
6	SW.	15	W.	18	W.	17	W.	17	NW.	24	NW.	35	N.	36	N.	31	N.	28	N.	21	NE.	17	N.	17	N.	18
7	SW.	21	W.	27	SW.	28	SW.	32	W.	34	*SW.*	32	W.	37	SW.	30	W.	26	*W.*	16	SW.	12	SW.	17	*SW.*	24
8	SW.	23	SW.	30	SW.	34	SW.	44	SW.	51	SW.	47	W.	50	W.	50	W.	50	W.	38	SW.	23	SW.	16	SW.	19
9	*NE.*	6	W.	22	W.	28	W.	22	W.	25	W.	27	NW.	22	NW.	28	W.	36	W.	27	W.	24	W.	16	NW.	8
10	SW.	20	SW.	19	SW.	19	SW.	17	SW.	16	W.	16	NW.	14	NW.	14	N.	10	*NW.*	9	*N.*	7	*NW.*	6	W.	7
11	S.	18	S.	16	S.	16	*SW.*	14	SW.	16	SW.	14	SW.	15	SW.	11	S.	5	S.	6	S.	6	S.	7	SW.	8
12	*S.*	18	SW.	26	SW.	24	SW.	27	SW.	24	*SW.*	20	W.	17	W.	18	W.	23	W.	24	W.	23	W.	17	S.	10
13	SW.	35	SW.	40	SW.	52	SW.	50	SW.	49	SW.	50	SW.	56	SW.	62	SW.	79	SW.	64	W.	61	S.	19	S.	18
14	SW.	33	SW.	27	SW.	25	W.	21	W.	15	W.	14	SW.	19	SW.	17	SW.	18	SW.	23	S.	16	S.	17	S.	14
15	N.	20	N.	22	N.	23	NE.	18	N.	18	N.	16	N.	17	N.	16	NE.	14	N.	11	NE.	6	NE.	7	NE.	9
16	W.	7	W.	11	W.	10	W.	8	W.	4	*N.*	2	NW.	0	N.	3	S.	4	SE.	5	S.	4	S.	4	S.	7
17	W.	18	SW.	14	W.	13	W.	12	NW.	10	NW.	5	NE.	2	N.	3	N.	4	N.	4	W.	3	W.	7	W.	5
18	S.	23	S.	16	SW.	14	SW.	8	SW.	9	SW.	9	SW.	10	SW.	3	NE.	3	E.	4	E.	3	W.	5	E.	4
19	S.	24	S.	23	SW.	24	SW.	26	W.	22	W.	17	NW.	14	NW.	13	NW.	14	W.	13	W.	13	NW.	8	W.	11
20	SW.	15	SW.	13	W.	15	W.	18	W.	23	W.	28	W.	32	W.	34	W.	38	W.	42	W.	34	SW.	28	W.	23
21	NW.	25	W.	31	W.	34	W.	34	W.	34	W.	29	W.	27	W.	29	W.	30	W.	33	W.	25	W.	12	SW.	13
22	SW.	37	SW.	37	SW.	40	W.	45	W.	50	W.	47	W.	37	W.	33	W.	33	W.	15	W.	7	SW.	8	SW.	19
23	SW.	47	SW.	49	SW.	60	SW.	46	SW.	37	SW.	34	SW.	24	SW.	22	SW.	27	SW.	29	SW.	28	SW.	23	SW.	28
24	W.	26	W.	31	W.	29	NW.	20	NW.	18	W.	20	W.	18	SW.	18	SW.	17	SW.	16	SW.	14	SW.	16	SW.	21
25	SW	15	W.	15	W.	15	SW.	9	W.	4	W.	2	SW.	6	SE.	8	E.	7	*E.*	8	*SE.*	4	SE.	5	SE.	6
26	NW.	17	NE.	12	*NE.*	16	N.	17	N.	15	N.	12	N.	7	N.	3	NE.	4	SE.	2	S.	4	SE.	6	S.	6
27	W.	30	W.	34	W.	38	NW.	34	NW.	39	NW.	30	W.	30	W.	26	W.	23	W.	11	W.	11	*W.*	10	W.	11
28	W.	10	W.	12	W.	19	W.	33	W.	37	W.	47	W.	48	W.	27	S.	11	SW.	16	SW.	13	SW.	14	SW.	14
29	NW.	9	NW.	16	NW.	21	*W.*	22	W.	26	SW.	18	SW.	21	SW.	20	*SW.*	12	SW.	14	SW.	12	S.	14	S.	13
30	W.	23	*N.*	19	N.	13	N.	15	N.	12	*NE.*	13	NE.	13	NE.	10	NE.	6	W.	6	*W.*	11	W.	12	W.	10
Mean	SW.	21.5	W.	23.1	W.	24.9	W. SW.	24.0	W.	24.1	W.	23.0	W.	22.4	SW.	20.4	W.	20.1	W.	17.6	W.	14.9	SW.	12.5	SW.	13.1

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian time.] [June, 1893.

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	23	25	25	25	25	25	25	*25*	25	26	*25*	23	21	*21*	21	23	*23*	25	23	*24*	22	21	20	20	23.4	28	21
2	19	18	19	19	17	17	17	*18*	18	21	*23*	23	26	*28*	31	33	*34*	33	34	*34*	33	31	29	28	25.1	35	16
3	28	27	26	25	24	24	24	*25*	26	28	*28*	28	30	*32*	33	33	*34*	34	33	*28*	27	24	21	20	27.6	35	23
4	17	16	15	14	13	10	9	*9*	12	13	*15*	16	18	*18*	17	17	*17*	18	18	*15*	14	14	14	14	14.7	20	9
5	13	12	11	11	11	11	11	*11*	12	*12*	*14*	15	18	*21*	23	24	*25*	24	22	*22*	21	21	20	20	16.9	25	10
6	20	20	19	19	17	18	20	*21*	24	26	*27*	28	29	*32*	32	35	*34*	33	33	*35*	33	31	30	30	26.9	36	15
7	30	32	32	32	33	32	33	*33*	34	36	*38*	39	40	*42*	43	44	*45*	42	41	*41*	40	40	38	39	37.5	46	29
8	38	37	35	33	33	32	33	*33*	34	35	*38*	41	42	*43*	45	43	*43*	41	41	*41*	39	38	38	37	38.0	46	31
9	36	33	33	32	31	30	32	*32*	32	33	*34*	35	38	*38*	38	41	*41*	37	36	*36*	34	34	34	31	34.6	42	29
10	32	32	32	32	32	33	34	*35*	37	37	*38*	40	41	*44*	45	45	*44*	44	45	*43*	41	40	38	37	38.4	47	30
11	37	37	37	38	38	38	38	*38*	40	41	*42*	43	46	*46*	46	46	*45*	44	42	*42*	44	43	42	40	41.4	49	36
12	40	40	40	39	38	37	37	*37*	38	*38*	*41*	42	45	*46*	46	44	*44*	45	44	*43*	39	37	35	36	40.4	46	36
13	34	34	33	32	31	30	30	*30*	30	31	*34*	36	38	*40*	42	44	*44*	44	45	*44*	41	38	36	35	36.5	46	29
14	34	34	33	33	32	32	31	*31*	37	34	*37*	39	39	*41*	42	41	*42*	43	41	*41*	36	30	29	29	35.9	44	31
15	27	26	24	25	24	23	24	*26*	26	27	*31*	33	34	*36*	38	39	*39*	38	37	*37*	24	32	34	33	31.1	40	23
16	32	32	32	32	32	32	31	*32*	34	36	*37*	37	38	*40*	41	41	*42*	37	34	*35*	34	33	31	35	35.0	43	30
17	34	33	33	34	34	34	34	*37*	38	38	*38*	40	43	*46*	44	44	*43*	45	44	*42*	39	38	36	36	38.6	46	31
18	35	35	35	37	35	36	37	*41*	42	42	*42*	43	45	*44*	45	45	*46*	45	44	*42*	40	38	37	37	40.3	47	33
19	37	36	37	37	37	38	39	*39*	40	*41*	*42*	44	46	*48*	49	45	*49*	46	45	*44*	42	42	42	41	42.0	49	36
20	40	39	39	38	37	37	38	*39*	40	*41*	*41*	43	45	*49*	50	52	*53*	52	52	*51*	49	45	44	42	44.0	53	36
21	40	39	38	37	36	36	36	*36*	36	37	*40*	42	43	*46*	45	43	*44*	43	41	*38*	37	36	34	32	39.0	48	34
22	32	31	31	33	33	34	35	*35*	37	38	*41*	41	42	*44*	45	46	*48*	46	45	*44*	43	42	41	40	39.5	49	30
23	38	37	36	34	34	32	31	*31*	31	33	*36*	38	40	*44*	45	47	*49*	47	47	*46*	43	40	39	38	39.0	49	30
24	36	35	34	33	32	34	33	*34*	34	35	*37*	39	38	*37*	40	39	*41*	44	35	*36*	36	35	34	34	35.9	43	31
25	33	32	32	32	32	32	33	*36*	37	38	*38*	38	40	*43*	43	40	*44*	44	43	*40*	40	38	35	34	37.4	45	31
26	36	36	35	35	35	35	34	*38*	38	*38*	*39*	40	41	*39*	32	30	*32*	32	35	*28*	28	33	31	29	34.5	42	28
27	30	28	27	27	31	30	31	*31*	32	34	*36*	37	40	*43*	43	45	*46*	46	46	*47*	44	41	39	38	37.2	48	25
28	38	38	38	37	37	36	36	*37*	38	38	*40*	42	44	*46*	48	49	*50*	48	47	*46*	43	42	42	41	41.7	52	35
29	39	38	38	38	37	36	36	*36*	37	37	*37*	39	37	*37*	38	36	*38*	36	36	*36*	34	34	34	33	36.5	40	35
30	32	33	34	34	33	32	32	*34*	35	36	*37*	39	42	*43*	42	42	*43*	42	42	*40*	37	36	35	36	37.2	46	31
Mean..	32.0	31.5	31.1	30.9	30.5	30.2	30.5	31.3	32.5	33.3	34.9	36.1	37.6	39.2	39.7	40.0	40.7	39.9	39.0	38.0	36.2	34.9	33.7	33.2	34.9	42.8	28.1

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[June 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	NE.	9	NE.	6	W.	15	W.	20	W.	10	*E.*	3	S.	4	N.	13	N.	17	*N.*	20	*N.*	16	32	SW.
2	W.	18	W.	10	W.	13	W.	12	SW.	13	SW.	14	*SW.*	15	*N.*	8	*NW.*	8	W.	14	W.	21	32	NW.
3	S.	22	SW.	23	SW.	22	SW.	22	*W.*	30	W.	30	*SW.*	33	W.	33	SW.	30	*SW.*	28	W.	26	44	SW.
4	W.	9	*SE.*	5	NW.	6	*NW.*	9	SW.	12	W.	12	W.	13	*N.*	13	N.	21	N.	20	NW.	15	27	N.
5	*NW.*	9	W.	10	W.	17	SW.	22	SW.	14	*N.*	11	N.	7	W.	13	SW.	19	SW.	21	SW.	18	29	SW.
6	NW.	16	*N.*	15	N.	16	NW.	12	SW.	12	*W.*	12	W.	16	SW.	20	SW.	20	SW.	20	SW.	24	41	N.
7	SW.	15	SW.	14	*W.*	13	W.	19	SW.	22	SW.	26	SW.	25	SW.	22	SW.	27	SW.	22	SW.	19	39	W.
8	SW.	20	SW.	22	SW.	16	S.	16	S.	20	S.	19	S.	13	*SW.*	13	SW.	23	W.	19	E.	12	57	W.
9	*NW.*	5	SE.	6	S.	8	*SE.*	12	SW.	18	*N.*	14	SW.	15	W.	16	SW.	21	SW.	26	SW.	26	38	W.
10	W.	7	E.	4	*SE.*	6	SE.	5	SE.	7	*S.*	11	S.	14	SE.	10	SE.	13	SE.	20	S.	21	23	SE.
11	S	8	*E.*	7	SE.	8	S.	15	W.	12	SW.	17	W.	26	W.	17	W.	21	SW.	22	SW.	19	38	W.
12	SE.	8	SW.	16	S.	13	S.	10	SE.	9	*SE.*	11	SE.	17	SE.	12	SE.	27	SE.	34	*S.*	35	38	S.
13	S.	29	SW.	22	SW.	22	S.	20	SW.	17	W.	19	SW.	21	SW.	22	SW.	24	SW.	28	SW.	30	86	SW.
14	S.	12	S.	9	W.	11	S.	11	SW.	12	W.	10	S.	8	S.	7	N.	8	NW.	12	N.	18	45	SW.
15	NE.	11	NE.	8	E.	10	E.	9	E.	10	E.	12	E.	10	E.	10	E.	9	SW.	8	W.	7	27	NE.
16	S.	7	S.	10	S.	18	SW.	17	S.	28	E.	14	E.	16	S.	15	S.	18	SW.	23	W.	16	44	W.
17	S.	5	SE.	5	E.	8	E.	11	E.	11	E.	9	E.	11	SE.	19	SE.	20	SE.	25	SE.	22	30	SE.
18	E.	7	E.	8	E.	9	E.	9	E.	11	E.	9	SE.	13	SE.	17	SE.	21	SE.	24	SE.	22	30	SE.
19	W.	10	S.	7	W.	13	W.	11	W.	11	S.	9	S.	14	S.	16	SW.	17	SW.	14	SW.	15	29	SW.
20	W.	17	SW.	14	SW.	21	W.	18	W.	23	W.	17	W.	20	W.	24	W.	14	W.	19	W.	20	46	W.
21	S.	11	S.	13	S.	10	SE.	12	SE.	12	E.	17	E.	19	E.	16	*S.*	17	S.	25	S.	33	39	W.
22	S.	21	SW.	21	SW.	25	SW.	25	SW.	25	S.	26	S.	23	S.	24	SW.	33	SW.	38	S.	38	53	W.
23	SW.	29	SW.	25	SW.	26	SW.	26	SW.	22	SW.	19	W.	17	W.	21	SW.	22	SW.	21	SW.	20	76	SW.
24	S.	19	S.	20	SW.	19	SW.	18	SW.	16	SW.	19	SW.	26	SW.	29	SW.	27	SW.	23	SW.	21	44	SW.
25	S.	10	*SW.*	12	SW.	15	SW.	20	SW.	16	*SW.*	16	S.	10	S.	11	SW.	24	W.	22	NW.	17	31	W.
26	SE.	6	NW.	18	W.	32	W.	46	W.	19	W.	29	W.	43	*NW.*	41	W.	37	NW.	25	NW.	27	60	W.
27	W.	11	SW.	10	SW.	11	W.	11	W.	11	SW.	11	W.	13	SW.	14	SW.	15	SW.	16	SW.	12	48	W.
28	SW.	15	SW.	14	W.	13	W.	17	SW.	18	*SW.*	13	W.	9	W.	8	SE.	8	W.	9	W.	7	54	W.
29	S.	13	S.	22	SW.	12	S.	23	SW.	20	S.	20	S.	23	S.	22	S.	22	SW.	24	SW.	21	31	SW.
30	S.	14	SE.	12	SE.	16	S.	18	S.	21	SW.	25	S.	17	S.	21	S.	21	SE.	20	SE.	20	31	SW.
Mean..	S.	13.1	SW.	13.0	SW.	14.8	SW.	16.5	SW.	16.1	SW.	15.8	S. W.	17.0	W. S.	17.6	SW.	20.1	SW.	21.4	SW.	20.6		

PIKES PEAK, COLO.

PRESSURE, 17 INCHES +.

NOTE.—All eye readings are printed in *italics*.

July, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	1.03	1.03	1.03	1.03	1.03	1.03	1.03	*1.04*	1.04	1.04	*1.06*	1.06	1.06	*1.06*	1.07	1.06	*1.05*	1.05	1.05	*1.05*	1.06	1.07	1.07	1.07	1.05	1.07	1.03
2	1.06	1.06	1.05	1.04	1.04	1.04	1.03	1.04	*1.04*	1.04	1.05	*1.06*	1.06	*1.07*	*1.08*	1.08	*1.07*	1.07	1.07	*1.06*	1.06	1.06	1.08	1.08	1.06	1.08	1.03
3	1.08	1.07	1.07	1.06	1.05	1.05	1.05	*1.06*	1.06	*1.07*	*1.09*	1.09	1.10	*1.09*	1.09	1.10	*1.10*	1.09	1.07	*1.07*	1.07	1.08	1.08	1.08	1.08	1.10	1.05
4	1.09	1.07	1.06	1.07	1.06	1.06	1.08	*1.08*	1.09	1.10	*1.10*	1.10	1.10	*1.11*	1.11	1.10	*1.09*	1.09	1.08	*1.06*	1.06	1.06	1.08	1.08	1.08	1.11	1.06
5	1.07	1.05	1.05	1.04	1.01	1.00	.96	.98	1.01	1.00	*1.02*	1.02	1.01	*1.01*	1.01	1.02	*1.01*	1.00	.99	*.98*	.99	.99	.98	.98	1.01	1.07	.96
6	.98	.97	.95	.95	.94	.93	.93	*.92*	.93	.95	*.95*	.95	.98	*.96*	.95	.95	*.95*	.95	.95	*.94*	.93	.94	.92	.91	.94	.98	.91
7	.89	.88	.89	.89	.89	.90	.93	*.95*	.96	.96	*.97*	.99	1.01	*1.02*	1.02	1.03	*1.03*	1.03	1.03	*1.03*	1.05	1.06	1.06	1.06	.98	1.06	.88
8	1.07	1.04	1.02	1.04	1.04	1.05	1.06	*1.06*	1.07	1.08	*1.08*	1.09	1.10	*1.10*	1.10	1.10	*1.10*	1.10	1.10	*1.12*	1.12	1.13	1.12	1.11	1.08	1.13	1.02
9	1.12	1.12	1.12	1.13	1.13	1.13	1.14	*1.15*	1.15	1.14	*1.15*	1.15	1.16	*1.17*	1.16	1.15	*1.14*	1.14	1.13	*1.13*	1.13	1.13	1.14	1.14	1.14	1.17	1.12
10	1.13	1.13	1.11	1.09	1.10	1.09	1.09	*1.09*	1.08	*1.09*	*1.08*	1.10	1.10	*1.10*	1.08	1.08	*1.07*	1.07	1.05	*1.05*	1.05	1.05	1.06	1.07	1.08	1.13	1.05
11	1.06	1.04	1.02	1.01	1.00	1.00	1.00	*.99*	1.00	1.01	*1.02*	1.02	1.03	*1.03*	1.03	1.02	*1.02*	1.01	1.00	*.99*	.99	.99	.98	.98	1.01	1.06	.98
12	.97	.96	.96	.96	.96	.97	.98	*1.00*	1.01	1.05	*1.05*	1.06	1.06	*1.07*	1.07	1.08	*1.08*	1.07	1.06	*1.05*	1.06	1.06	1.06	1.06	1.03	1.08	.96
13	1.06	1.05	1.05	1.04	1.04	1.05	1.05	*1.05*	1.05	1.06	*1.06*	1.05	1.05	*1.05*	1.05	1.05	*1.04*	1.04	1.03	*1.02*	1.02	1.00	1.00	1.01	1.04	1.06	1.00
14	1.01	1.00	1.00	.98	.98	.97	.97	*.98*	1.00	1.02	*1.02*	1.02	1.02	*1.02*	1.03	1.04	*1.04*	1.02	1.02	*1.01*	1.02	1.02	1.02	1.02	1.01	1.04	.97
15	1.02	1.02	1.02	1.01	1.00	1.00	1.00	*1.01*	1.01	1.02	*1.03*	1.04	1.04	*1.04*	1.04	1.03	*1.04*	1.03	1.02	*1.02*	1.02	1.03	1.04	1.05	1.02	1.05	1.00
16	1.04	1.04	1.04	1.04	1.03	1.05	1.05	*1.06*	1.06	1.08	*1.08*	1.08	1.08	*1.09*	1.08	1.08	*1.08*	1.08	1.08	*1.08*	1.08	1.08	1.08	1.08	1.07	1.09	1.03
17	1.08	1.08	1.07	1.07	1.06	1.06	1.06	*1.06*	1.06	*1.08*	*1.06*	1.08	1.08	*1.08*	1.08	1.08	*1.08*	1.07	1.07	*1.06*	1.08	1.08	1.09	1.10	1.07	1.10	1.06
18	1.10	1.10	1.10	1.09	1.10	1.10	1.10	*1.10*	*1.10*	1.11	1.11	*1.12*	1.12	1.13	*1.14*	1.14	1.14	*1.14*	1.13	1.13	*1.12*	1.13	1.14	1.15	1.16	1.12	1.09
19	1.16	1.16	1.14	1.14	1.14	1.14	1.14	1.13	*1.13*	1.14	1.14	*1.16*	1.16	1.17	*1.17*	1.16	1.16	*1.16*	1.15	1.15	*1.15*	1.15	1.15	1.16	1.16	1.15	1.13
20	1.16	1.16	1.15	1.14	1.15	1.15	1.15	1.15	*1.15*	1.15	1.10	*1.16*	1.17	1.17	*1.17*	1.17	1.16	*1.16*	1.16	1.16	*1.15*	1.15	1.15	1.15	1.16	1.17	1.14
21	1.14	1.14	1.14	1.13	1.12	1.11	1.11	*1.11*	1.10	1.12	*1.12*	1.12	1.13	*1.13*	1.14	1.14	*1.14*	1.14	1.12	*1.11*	1.11	1.11	1.11	1.11	1.12	1.14	1.10
22	1.10	1.10	1.09	1.08	1.07	1.07	1.06	*1.06*	1.06	*1.07*	*1.07*	1.09	1.09	*1.08*	1.08	1.08	*1.06*	1.05	1.05	*1.06*	1.06	1.05	1.06	1.06	1.07	1.10	1.05
23	1.06	1.05	1.04	1.04	1.04	1.04	1.04	*1.04*	1.04	*1.04*	*1.04*	1.06	1.05	*1.05*	1.04	1.04	*1.03*	1.02	1.02	*1.02*	1.02	1.02	1.03	1.03	1.04	1.06	1.02
24	1.01	1.02	1.01	1.01	1.00	1.01	1.01	*1.02*	1.02	*1.02*	*1.03*	1.04	1.04	*1.05*	1.05	1.05	*1.05*	1.05	1.05	*1.05*	1.05	1.06	1.08	1.07	1.04	1.08	1.01
25	1.07	1.07	1.06	1.06	1.07	1.07	1.07	*1.09*	1.09	1.10	*1.11*	1.11	1.12	*1.12*	1.12	1.11	*1.10*	1.10	1.10	*1.10*	1.10	1.11	1.10	1.10	1.09	1.12	1.06
26	1.10	1.10	1.09	1.08	1.08	1.08	1.09	*1.09*	1.09	1.09	*1.10*	1.10	1.10	*1.10*	1.09	1.08	*1.08*	1.07	1.05	*1.06*	1.06	1.07	1.07	1.07	1.08	1.10	1.05
27	1.07	1.06	1.05	1.04	1.03	1.02	1.01	*1.00*	1.00	1.01	*1.03*	1.04	1.05	*1.05*	1.05	1.05	*1.05*	1.04	1.02	*1.03*	1.04	1.05	1.05	1.06	1.04	1.07	1.00
28	1.06	1.06	1.06	1.06	1.07	1.07	1.07	*1.08*	1.08	1.09	*1.10*	1.10	1.10	*1.11*	1.10	1.10	*1.10*	1.09	1.09	*1.09*	1.09	1.10	1.10	1.10	1.09	1.11	1.06
29	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.12	*1.13*	1.13	1.13	*1.13*	1.14	1.15	*1.15*	1.14	1.13	*1.13*	1.14	1.14	*1.12*	1.12	1.13	1.14	1.13	1.13	1.15
30	1.13	1.12	1.13	1.13	1.13	1.13	1.13	1.14	*1.15*	1.16	1.17	*1.17*	1.18	1.19	*1.19*	1.18	1.18	*1.17*	1.16	1.16	*1.17*	1.17	1.18	1.18	1.18	1.16	1.19
31	1.17	1.17	1.17	1.16	1.16	1.15	1.15	*1.15*	*1.15*	*1.15*	*1.17*	1.17	1.16	*1.16*	1.15	1.13	*1.12*	1.13	1.13	*1.11*	1.13	1.13	1.13	1.13	1.15	1.17	1.11
Mean	1.07	1.06	1.06	1.06	1.05	1.05	1.05	1.06	1.06	1.07	1.08	1.08	1.09	1.09	1.09	1.08	1.08	1.08	1.07	1.07	1.07	1.07	1.08	1.08	1.07	1.10	1.04

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

July, 1893.]

Day.	0–1h a. m.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Noon.	Noon–1h p. m.
1	S. 24	SE. 22	S. 16	SW. 14	SW. 12	W. 12	W. 11	NW. 11	NW. 11	NW. 12	NW. 8	N. 7	NE. 8
2	S. 14	SE. 13	S. 19	S. 16	S. 20	S. 20	S. 21	S. 19	SW. 16	SW. 14	SW. 18	W. 18	W. 9
3	SE. 16	S. 18	S. 19	SW. 15	W. 21	W. 22	NW. 19	NW. 16	NW. 11	NW. 20	NW. 8	NW. 8	W. 12
4	NW. 24	NW. 25	*NW.* 16	N. 10	NW. 25	N. 20	N. 10	NW. 13	NW. 9	*W.* 7	W. 10	*SW.* 12	S. 11
5	NW. 9	NW. 12	NW. 15	*NW.* 16	W. 25	W. 35	W. 45	W. 44	W. 35	SW. 19	SW. 14	SW. 14	SW. 16
6	W. 24	SW. 20	W. 20	W. 26	W. 17	W. 23	W. 24	W. 37	W. 29	W. 27	W. 36	W. 34	W. 21
7	W. 45	W. 54	W. 58	W. 56	W. 55	W. 50	W. 44	W. 29	W. 21	W. 18	W. 12	*S.* 15	S. 14
3	W. 24	W. 14	W. 38	S. 19	S. 17	S. 11	SW. 9	SW. 17	SW. 15	W. 17	NW. 7	N. 3	N. 4
9	SW. 13	SW. 10	W. 12	W. 17	SW. 18	W. 11	W. 8	W. 5	N. 4	N. 4	N. 5	E. 6	E. 5
10	SW. 7	SW. 11	SW. 11	SW. 8	SW. 7	SW. 2	W. 9	NW. 6	W. 10	W. 13	W. 11	W. 6	NE. 7
11	W. 9	W. 19	W. 29	W. 29	W. 33	W. 35	W. 31	W. 33	W. 30	W. 33	W. 30	W. 25	W. 20
12	W. 46	W. 51	W. 40	W. 36	SW. 30	W. 26	W. 21	W. 23	W. 21	W. 17	W. 12	W. 9	W. 10
13	SW. 17	SW. 10	SW. 16	W. 16	W. 13	W. 10	W. 9	W. 7	W. 5	SE. 3	E. 3	E. 4	S. 4
14	W. 21	W. 27	W. 31	W. 28	W. 29	W. 29	W. 33	W. 40	W. 31	W. 28	W. 17	W. 13	W. 12
15	NW. 9	NW. 9	NW. 7	NW. 8	NW. 8	NW. 9	NW. 10	N. 5	N. 5	N. 6	W. 6	W. 10	SW. 11
16	SW. 8	W. 11	SW. 14	SW. 15	*NW.* 14	W. 13	W. 11	W. 9	NW. 4	N. 4	N. 6	W. 7	W. 9
17	SE. 5	N. 5	SW. 7	SW. 5	SW. 7	SW. 9	SW. 12	SW. 11	SW. 10	SW. 7	SW. 5	SW. 5	*NW.* 6
18	E. 13	S. 7	*SW.* 9	SW. 11	NW. 10	NW. 15	NE. 12	NE. 12	NE. 13	NE. 10	NE. 12	NE. 12	NE. 15
19	NE. 12	NE. 15	NE. 14	NE. 12	NE. 7	NE. 7	NE. 14	NE. 15	NE. 14	NE. 11	NE. 10	NE. 9	NE. 8
20	N. 9	N. 11	N. 11	N. 12	NW. 15	NW. 13	N. 10	N. 11	N. 9	*N.* 9	NE. 5	NE. 5	NE. 4
21	*NE.* 5	NW. 9	N. 9	N. 11	N. 13	N. 18	N. 19	NE. 17	NE. 13	NE. 12	NE. 11	NE. 13	NE. 13
22	NE. 9	NE. 6	N. 9	NW. 14	NW. 16	N. 17	NE. 14	NE. 14	NE. 14	NE. 11	NE. 11	NE. 11	NE. 14
23	S. 10	S. 12	S. 14	W. 7	*N.* 3	*E.* 3	NE. 1	NE. 2	E. 5	NE. 4	NE. 5	SE. 3	W. 5
24	W. 12	W. 19	W. 17	W. 10	W. 4	N. 5	N. 8	N. 9	N. 8	N. 8	NE. 6	NE. 10	NE. 10
25	N. 11	NW. 8	NW. 5	NW. 5	NW. 8	NW. 7	NW. 6	N. 6	*N.* 8	NE. 9	E. 9	E. 8	E. 3
26	W. 22	W. 15	W. 12	W. 14	W. 16	W. 13	W. 9	W. 12	W. 12	W. 14	W. 17	W. 11	W. 12
27	N. 16	N. 15	N. 16	N. 14	N. 18	NW. 21	NW. 31	NW. 33	NW. 32	NW. 31	N. 20	N. 13	NE. 7
28	NW. 21	NW. 21	NE. 10	N. 8	NE. 9	NE. 7	N. 5	N. 5	E. 5	E. 5	E. 4	E. 5	E. 7
29	S. 18	S. 21	S. 20	S. 20	W. 18	W. 18	W. 13	W. 13	W. 10	*W.* 8	E. 4	E. 9	E. 11
30	W. 8	W. 16	NW. 8	NW. 5	NE. 3	NE. 3	NW. 6	NE. 9	NE. 13	*E.* 12	E. 14	E. 16	E. 14
31	*N.* 13	NE. 11	E. 15	E. 11	W. 12	W. 11	W. 10	W. 10	W. 9	W. 11	W. 9	W. 16	W. 16
Mean	W. 15.9	W. 16.7	W. 17.3	W. 15.6	W. 16.2	W. 15.9	W. 15.7	W. 15.9	W. 13.9	W. 13.0	W. 11.1	W. 10.9	W. 10.3

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [July, 1893.

Day.	1h a. m	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	34	32	32	32	31	30	34	*36*	37	39	*42*	43	44	*45*	43	43	*42*	44	44	43	43	42	41	39	39.0	46	29
2	39	35	35	35	35	36	35	*36*	37	39	*40*	42	44	*45*	48	48	*48*	44	40	*42*	41	40	40	39	40.1	50	31
3	38	38	37	37	37	37	38	*39*	40	*41*	*45*	44	45	*47*	48	50	*52*	53	52	*50*	49	46	45	44	43.8	54	35
4	43	42	41	41	40	40	40	*40*	41	42	*44*	46	48	*49*	52	53	*54*	53	53	*51*	47	45	45	45	45.6	56	31
5	44	43	41	40	39	39	39	*39*	39	40	*42*	45	45	*45*	46	44	*43*	45	44	*41*	40	39	38	37	41.5	48	37
6	37	36	36	36	36	36	35	*36*	36	37	*39*	41	44	*46*	47	48	*49*	49	48	*47*	46	44	42	40	41.2	50	35
7	38	38	37	36	36	35	35	*35*	36	37	*39*	42	44	*47*	47	47	*48*	48	43	*42*	40	37	35	36	39.9	51	35
8	33	31	33	34	34	33	33	*33*	32	32	*34*	38	40	*43*	44	44	*44*	44	38	*39*	39	39	39	35	37.0	46	31
9	36	37	37	38	37	38	40	*41*	42	44	*43*	44	44	*47*	45	44	*42*	44	41	*40*	38	36	38	39	40.6	47	35
10	39	37	38	38	38	38	38	*38*	38	*38*	*40*	42	42	*44*	39	40	*41*	38	38	*41*	40	39	38	38	39.2	44	34
11	37	38	37	37	36	36	36	*36*	38	38	*40*	41	43	*44*	46	48	*48*	45	42	*43*	42	41	40	39	40.5	51	34
12	38	34	34	35	37	37	37	*36*	36	36	*39*	41	44	*45*	45	45	*45*	44	44	*42*	40	38	37	37	39.4	47	33
13	38	36	36	36	36	35	36	*36*	38	39	*39*	40	42	*43*	44	43	*44*	46	43	*45*	42	41	40	39	39.9	47	35
14	38	38	38	37	35	34	33	*34*	35	36	37	39	42	*43*	41	38	*39*	41	40	*40*	39	38	37	36	37.8	44	31
15	36	35	35	35	34	34	34	*35*	37	38	*39*	40	41	*44*	38	40	*42*	40	42	*41*	40	38	38	36	38.0	45	32
16	36	35	33	33	34	33	33	*35*	37	38	*40*	41	42	*43*	46	42	*44*	42	41	*38*	37	36	37	36	38.0	47	32
17	36	36	34	34	34	34	34	*34*	35	*35*	*35*	39	38	*40*	43	43	*42*	42	41	*40*	38	38	37	36	37.4	45	31
18	34	35	34	33	35	35	35	*36*	36	39	*40*	40	40	*41*	41	40	*40*	40	39	*38*	37	37	36	36	37.4	41	31
19	36	35	35	35	34	34	35	*35*	36	38	*40*	41	43	*43*	43	45	*45*	45	43	*45*	41	40	39	38	39.2	45	33
20	38	37	37	37	36	36	35	*37*	39	38	*40*	40	43	*45*	44	45	*45*	45	43	*41*	40	39	38	38	39.8	46	34
21	37	38	38	37	37	37	37	*38*	39	41	*42*	44	45	*46*	47	48	*48*	46	45	*44*	42	42	41	40	41.6	49	35
22	40	39	38	37	37	36	37	*38*	39	41	*42*	42	42	*44*	43	44	*43*	42	42	*41*	40	37	37	36	39.9	44	37
23	35	34	33	34	34	34	34	*38*	39	38	*37*	39	42	*40*	37	35	*36*	38	38	*41*	40	39	38	38	37.1	42	32
24	37	36	35	35	36	36	35	*36*	37	*38*	*32*	40	40	*41*	43	44	*41*	42	41	*40*	39	37	38	38	38.5	45	35
25	36	36	37	36	36	36	35	*35*	36	36	*35*	36	38	*40*	41	40	*40*	40	38	*37*	36	36	35	34	36.9	42	35
26	34	34	34	34	34	34	34	*35*	35	36	*36*	37	38	*40*	42	42	*41*	40	34	*37*	35	36	34	36	36.3	44	32
27	37	36	36	35	34	35	35	*36*	37	37	*38*	40	41	*41*	44	45	*39*	34	34	*36*	35	36	36	35	37.2	46	32
28	35	35	33	34	34	34	35	*36*	37	37	*37*	38	37	*38*	38	40	*37*	40	38	*38*	35	35	35	34	36.2	41	33
29	34	33	33	34	34	35	36	*37*	38	39	*41*	41	41	*43*	41	40	*37*	37	34	*35*	36	36	36	34	36.9	44	32
30	35	37	37	37	36	35	35	*35*	37	38	*38*	38	37	*38*	36	34	*34*	36	35	*34*	34	33	33	33	35.6	40	34
31	32	32	32	32	31	32	32	*32*	32	33	*34*	34	35	*36*	38	39	*37*	35	37	*33*	33	32	32	32	33.6	40	30
Mean.	36.8	36.1	35.7	35.6	35.4	35.3	35.5	36.2	37.1	38.0	39.2	40.6	41.7	43.1	43.2	43.3	43.2	42.9	42.6	41.1	40.7	39.5	38.5	37.9	37.2	38.9	46.0	33.1

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[July, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction
1	W.	10	NE.	8	E.	9	NE.	7	W.	11	NW.	6	S.	8	SE.	4	SW.	6	S.	5	SE.	7	27	S.
2	W.	9	W.	12	*SW.*	10	SW.	14	*S.*	11	E.	8	*E.*	13	SW.	16	S.	15	*SE.*	11	SE.	10	22	S.
3	W.	11	W.	14	W.	12	NW.	12	W.	9	*N.*	13	NW.	11	NW.	12	NW.	12	NW.	18	NW.	21	26	N.
4	SW.	7	SW.	11	SW.	13	SW.	15	SW.	18	*S.*	16	SW.	18	SW.	19	S.	21	S.	18	*SW.*	10	29	N.
5	W.	23	W.	19	S.	16	S.	20	SW.	24	SW.	26	SW.	31	SW.	19	SW.	19	SW.	27	SW.	28	54	W.
6	W.	13	SW.	16	W.	18	W.	22	SW.	19	SW.	16	SW.	18	SW.	15	SW.	13	W.	16	W.	34	42	W.
7	S.	14	SW.	15	W.	14	SW.	15	SW.	11	E.	7	E.	11	E.	19	E.	23	E.	26	SE.	19	64	W.
8	NW.	4	W.	4	W.	5	W.	8	NW.	7	E.	4	N.	5	*E.*	7	S.	13	SW.	13	SW.	19	57	SW.
9	E.	6	E.	9	SE.	7	E.	7	E.	10	E.	12	E.	13	E.	10	E.	18	E.	13	E.	13	27	E.
10	E.	3	E.	6	N.	6	*N.*	4	E.	5	W.	18	W.	19	W.	11	NE.	7	NE.	4	N.	3	23	W.
11	W.	21	W.	15	W.	9	SW.	14	W.	20	W.	23	SW.	21	SW.	22	SW.	31	SW.	37	SW.	44	48	W.
12	S.	6	E.	5	S.	5	W.	8	SW.	8	S.	13	W.	9	W.	10	N.	10	W.	9	SW.	19	57	W.
13	SW.	8	S.	10	SW.	11	SW.	13	S.	13	SW.	14	S.	19	SW.	15	W.	21	W.	19	W.	21	33	SW.
14	W.	10	SW.	13	SW.	17	SW.	25	SW.	20	SW.	20	W.	14	W.	6	N.	8	N.	7	N.	5	46	W.
15	S.	10	W.	12	W.	19	SW.	18	SW.	19	S.	11	SW.	16	SW.	13	SW.	10	SW.	9	SW.	5	29	W.
16	*E.*	6	*W.*	5	*SW.*	11	W.	13	E.	7	E.	13	SW.	23	SW.	13	SW.	15	*S.*	7	E.	7	28	SW.
17	E.	5	E.	7	NE.	9	NE.	11	NE.	10	E.	15	NE.	10	NE.	10	NE.	16	NE.	21	NE.	16	22	NW.
18	NE.	16	NE.	16	NE.	16	NE.	14	NE.	11	NE.	13	NE.	11	NE.	11	NE.	7	NE.	7	NE.	7	20	NE.
19	NE.	9	NE.	10	NE.	11	NE.	10	NE.	10	NE.	6	NE.	8	NE.	10	NE.	9	NE.	9	NE.	9	16	NE.
20	NE.	8	NE.	12	NE.	17	E.	18	E.	14	E.	16	E.	18	E.	13	E.	11	NE.	6	NE.	5	23	NE.
21	NE.	14	NE.	17	NE.	23	E.	24	E.	18	E.	15	NE.	15	NE.	15	E.	10	NE.	6	NE.	4	33	N.
22	NE.	16	E.	19	E.	21	E.	19	E.	20	E.	17	E.	14	E.	15	E.	15	*S.*	9	*S.*	11	26	E.
23	S.	5	S.	11	S.	19	S.	15	S.	19	S.	14	SW.	7	SW.	4	SE.	4	S.	2	SW.	4	22	S.
24	N.	12	N.	16	N.	16	N.	21	N.	17	E.	15	NE.	12	N.	10	N.	12	NE.	7	NE.	5	23	NE.
25	*E.*	4	SE.	3	S.	5	S.	11	SW.	11	*SE.*	4	E.	6	NW.	6	S.	10	W.	16	W.	35	43	W.
26	N.	7	W.	5	W.	7	S.	9	S.	11	W.	18	W.	23	W.	10	N.	11	N.	19	N.	22	45	NW.
27	E.	4	N.	6	W.	7	NW.	7	N.	7	W.	24	N.	24	N.	22	NW.	15	N.	11	NW.	16	39	NW.
28	E.	8	E.	11	W.	10	W.	12	W.	10	S.	14	S.	11	S.	10	S.	14	S.	13	S.	16	26	NW.
29	*NE.*	11	E.	11	E.	16	*E.*	22	NE.	17	NE.	10	NW.	14	NW.	10	NW.	12	NW.	6	NE.	8	28	NE.
30	E.	12	E.	15	NE.	7	NW.	8	NW.	3	NW.	5	W.	5	W.	10	NE.	5	E.	8	NE.	6	19	W.
31	W.	15	W.	9	W.	7	*NE.*	6	W.	9	W.	5	*NW.*	5	N.	6	NE.	7	E.	10	E.	7	19	W.
Mean.	E.	9.0	W.	11.0	W.	12.0	SW.	13.6	SW.	12.9	E.	13.3	E. SW.	13.9	SW.	12.0	SW. NE.	12.9	S. NE. E.	12.5	NE.	14.1	.....	.....

PIKES PEAK, COLO.

PRESSURE, 17 INCHES +.

NOTE.—All eye readings are printed in *italics*.

August, 1893.] [Seventy-fifth

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	1.13	1.11	1.07	1.05	1.05	1.05	1.05	*1.04*	1.05	1.06	*1.06*	1.05	1.05	*1.06*	1.05	1.03	*1.05*	1.05	1.05	*1.04*	1.05	1.05	1.05	1.05	1.06	1.13	1.03
2	1.05	1.05	1.05	1.03	1.03	1.03	*1.03*	1.04	1.05	*1.07*	1.07	1.07	*1.08*	1.09	1.09	*1.08*	1.08	1.08	*1.08*	1.08	1.08	1.08	1.09	1.06	1.09	1.03
3	1.08	1.07	1.07	1.07	1.06	1.06	1.06	*1.06*	1.07	1.08	*1.09*	1.10	1.12	*1.12*	1.12	1.12	*1.13*	1.12	1.12	*1.11*	1.11	1.11	1.11	1.09	1.12	1.06
4	1.10	1.09	1.09	1.08	1.08	1.07	*1.07*	1.07	1.08	1.10	*1.10*	1.12	1.11	*1.11*	1.11	1.11	*1.10*	1.09	1.10	*1.10*	1.10	1.11	1.13	1.12	1.13	1.07
5	1.10	1.10	1.10	1.10	1.09	1.08	*1.07*	1.07	1.08	1.10	*1.10*	1.10	1.11	*1.11*	1.11	1.10	*1.10*	1.10	1.10	*1.10*	1.12	1.11	1.12	1.12	1.10	1.12	1.07
6	1.12	1.12	1.10	1.09	1.09	1.09	1.08	*1.08*	1.10	1.09	*1.10*	1.11	1.11	*1.11*	1.11	1.11	*1.09*	1.09	1.09	*1.08*	1.08	1.07	1.07	1.07	1.09	1.12	1.07
7	1.06	1.06	1.05	1.04	1.03	1.03	*1.03*	1.04	1.04	*1.04*	*1.04*	1.05	1.06	*1.06*	1.05	1.04	*1.05*	1.03	1.03	*1.02*	1.02	1.03	1.03	1.04	1.04	1.06	1.02
8	1.04	1.03	1.03	1.02	1.02	1.02	*1.02*	1.02	1.03	1.05	*1.05*	1.04	1.03	*1.02*	1.02	1.01	*1.00*	.99	.99	*.99*	.99	1.00	1.00	1.00	1.02	1.05	.99
9	.99	.98	.97	.95	.93	.93	.93	*.95*	.95	.97	*.97*	.98	.98	*.98*	.99	.98	*.96*	.95	.95	*.95*	.96	.97	.98	.98	.96	.99	.93
10	.98	.98	.98	.98	.99	.99	.99	*.99*	.99	.99	*.98*	1.00	1.01	*1.03*	1.03	1.03	*1.03*	1.02	1.02	*1.03*	1.03	1.05	1.06	1.05	1.01	1.06	.98
11	1.06	1.05	1.04	1.04	1.05	1.05	1.05	*1.05*	1.06	1.07	*1.09*	1.09	1.09	*1.08*	1.08	1.08	*1.08*	1.08	1.07	*1.06*	1.07	1.07	1.07	1.07	1.07	1.09	1.04
12	1.07	1.07	1.06	1.05	1.03	1.02	1.00	*.98*	.97	.99	*.98*	1.00	1.03	*1.06*	1.07	1.08	*1.08*	1.08	1.08	*1.08*	1.08	1.09	1.10	1.10	1.05	1.10	.97
13	1.10	1.10	1.10	1.09	1.09	1.08	1.08	*1.08*	1.08	1.09	*1.09*	1.10	1.10	*1.10*	1.10	1.09	*1.09*	1.08	1.06	*1.06*	1.06	1.06	1.05	1.04	1.08	1.10	1.04
14	1.03	1.01	1.00	1.00	1.00	.99	.96	*.95*	.98	1.00	*1.00*	1.00	1.01	*1.02*	1.02	1.02	*1.01*	1.00	.99	*.98*	.96	.96	.97	.97	.99	1.03	.95
15	.97	.97	.96	.95	.95	.95	.95	*.95*	.96	.97	*.98*	.98	.99	*.99*	1.00	1.00	*.99*	.97	.98	*.97*	.98	1.00	1.02	1.03	.98	1.03	.95
16	1.04	1.04	1.04	1.04	1.03	1.02	1.02	*1.02*	1.02	1.04	*1.04*	1.04	1.04	*1.04*	1.03	1.03	*1.03*	1.02	1.02	*1.01*	1.01	1.01	1.03	1.04	1.03	1.04	1.01
17	1.04	1.02	1.02	1.01	1.01	1.00	1.00	*1.00*	1.01	1.02	*1.03*	1.05	1.07	*1.08*	1.08	1.07	*1.07*	1.07	1.06	*1.06*	1.07	1.07	1.09	1.09	1.04	1.09	1.00
18	1.09	1.09	1.09	1.08	1.07	1.07	1.08	*1.08*	1.07	1.09	*1.09*	1.10	1.10	*1.10*	1.09	1.08	*1.07*	1.06	1.06	*1.07*	1.07	1.07	1.07	1.08	1.08	1.10	1.06
19	1.08	1.08	1.08	1.08	1.07	1.06	1.06	*1.06*	1.06	1.07	*1.08*	1.08	1.08	*1.08*	1.08	1.07	*1.06*	1.06	1.07	*1.06*	1.06	1.06	1.06	1.06	1.07	1.08	1.06
20	1.06	1.06	1.07	1.07	1.06	1.06	1.06	*1.07*	1.07	1.08	*1.07*	1.08	1.08	*1.07*	1.07	1.07	*1.07*	1.06	1.06	*1.06*	1.06	1.06	1.07	1.07	1.08	1.06
21	1.06	1.05	1.04	1.03	1.02	1.00	.99	*.99*	.99	*.98*	*1.00*	1.00	1.01	*1.02*	1.03	1.02	*1.02*	1.01	1.00	*.94*	.96	.96	.96	.96	1.00	1.06	.94
22	.95	.94	.93	.92	.92	.93	.93	*.93*	.96	.97	*.97*	.88	1.00	*1.00*	1.01	1.01	*1.01*	1.01	1.01	*1.02*	*1.03*	1.03	1.03	1.03	.98	1.03	.92
23	1.03	1.03	1.01	.98	.98	.97	.97	*.98*	.98	.99	*1.01*	1.02	1.02	*1.03*	1.03	1.04	*1.04*	1.03	1.01	*1.00*	1.01	1.02	1.04	1.04	1.01	1.04	.97
24	1.04	1.04	1.03	1.02	1.02	1.02	1.01	*1.01*	1.02	1.03	*1.05*	1.06	1.06	*1.07*	1.07	1.06	*1.06*	1.05	1.04	*1.04*	1.04	1.04	1.04	1.04	1.04	1.07	1.01
25	1.04	1.04	1.03	1.03	1.02	1.02	1.02	*1.02*	1.02	1.03	*1.05*	1.06	1.06	*1.06*	1.06	1.06	*1.07*	1.05	1.04	*1.04*	1.04	1.04	1.04	1.03	1.04	1.07	1.02
26	1.03	1.01	1.00	.99	.98	.99	.99	*.99*	1.00	1.01	*1.03*	1.03	1.03	*1.03*	1.04	1.05	*1.04*	1.04	1.04	*1.05*	1.03	1.04	1.05	1.05	1.02	1.05	.98
27	1.05	1.04	1.03	1.02	1.02	1.01	1.01	*1.01*	1.02	1.02	*1.03*	1.03	1.03	*1.03*	1.03	1.03	*1.03*	1.03	1.03	*1.03*	1.03	1.03	1.04	1.04	1.03	1.05	1.01
28	1.04	1.04	1.04	1.04	1.04	1.04	1.04	*1.04*	1.03	*1.03*	*1.05*	1.05	1.05	*1.06*	1.05	1.04	*1.04*	1.04	1.03	*1.03*	1.03	1.03	1.04	1.04	1.04	1.06	1.03
29	1.04	1.05	1.05	1.05	1.05	1.06	1.06	*1.06*	1.06	*1.06*	1.06	1.07	1.08	*1.08*	1.08	1.07	*1.07*	1.08	1.09	*1.10*	1.10	1.10	1.10	1.11	1.07	1.11	1.04
30	1.11	1.11	1.10	1.10	1.10	1.10	1.10	*1.10*	1.10	1.11	*1.10*	1.10	1.10	*1.09*	1.09	1.08	*1.06*	1.05	1.04	*1.02*	1.02	1.02	1.02	1.02	1.08	1.11	1.02
31	1.02	1.01	1.00	.98	.97	.97	.97	*.97*	.96	.96	*.99*	1.00	1.00	*.99*	.99	.99	*1.00*	1.00	1.01	*1.02*	1.02	1.03	1.05	1.05	1.00	1.05	.96
Mean..	1.05	1.05	1.04	1.03	1.03	1.02	1.02	1.02	1.03	1.04	1.04	1.05	1.05	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.08	1.01	1.08

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

August, 1893.]

Day.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p. m.	
1	*E.*	7	W.	10	W.	9	W.	17	W.	15	W.	11	W.	12	W.	12	NW.	15	N.	9	NE.	7	NE.	4	*N.*	6
2	N.	9	N.	9	N.	9	NW.	9	NW.	9	NW.	9	NW.	8	NW.	7	*N.*	5	NW.	5	N.	7	NW.	4	N.	7
3	NE.	13	N.	21	N.	22	N.	15	NE.	15	N.	22	N.	24	N.	18	NE.	16	NE.	16	NE.	16	NE.	19	NE.	15
4	NE.	28	NE.	27	NE.	29	NE.	26	NE.	19	NE.	20	NE.	19	NE.	23	NE.	27	NE.	16	NE.	23	NE.	20	NE.	24
5	E.	11	E.	17	E.	15	E.	13	E.	12	E.	15	S.	15	S.	14	S.	14	S.	13	S.	9	S.	6	E.	9
6	E.	20	E.	15	*W.*	20	W.	24	W.	24	W.	22	W.	21	W.	17	W.	15	NE.	10	NE.	8	NE.	11	NE.	9
7	W.	17	W.	17	W.	23	W.	25	W.	25	W.	23	NW.	18	NW.	19	NW.	20	N.	16	N.	10	NE.	6	NE.	6
8	E.	13	E.	12	E.	10	E.	9	W.	7	W.	6	W.	5	W.	10	W.	15	W.	16	SW.	11	SW.	10	SW.	9
9	*W.*	20	W.	11	W.	19	W.	16	W.	33	W.	42	W.	38	W.	33	W.	30	W.	27	NW.	18	W.	14	NW.	13
10	NE.	15	*N.*	16	*N.*	13	N.	12	N.	10	NW.	9	NW.	9	W.	7	W.	5	S.	7	W.	10	W.	9	W.	8
11	*W.*	12	W.	16	NW.	16	NW.	14	W.	11	W.	10	W.	11	W.	12	W.	16	W.	10	SW.	6	SW.	9	SW.	11
12	SW.	15	SW.	12	S.	11	S.	12	SW.	18	SW.	24	SW.	34	SW.	37	W.	45	W.	41	W.	48	W.	44	W.	23
13	NW.	15	NW.	15	NW.	9	NW.	12	W.	19	W.	28	W.	23	W.	17	W.	18	W.	15	W.	9	W.	5	W.	7
14	SW.	15	SW.	17	SW.	23	SW.	17	SW.	21	SW.	20	W.	32	W.	44	W.	48	W.	43	W.	37	W.	30	*SW.*	13
15	W.	14	NW.	15	W.	23	NW.	10	SW.	11	SW.	12	W.	16	NW.	15	NW.	15	NW.	12	NW.	9	*N.*	4	W.	8
16	N.	8	NW.	13	NW.	11	NW.	10	*W.*	9	W.	9	W.	11	W.	12	W.	9	SW.	6	SW.	3	SW.	11	SW.	12
17	W.	13	W.	12	W.	9	SW.	10	*SW.*	12	W.	15	NW.	15	NW.	17	NW.	21	*N.*	16	N.	15	NW.	11	N.	8
18	S.	7	*SE.*	8	SW.	10	SW.	11	*S.*	10	SW.	10	SW.	9	W.	9	W.	8	*W.*	3	E.	5	NE.	6	E.	4
19	NE.	8	NE.	8	NE.	9	NE.	8	NE.	8	NE.	7	NE.	6	NE.	5	NE.	6	NE.	4	NE.	5	NE.	8	NE.	8
20	S.	9	S.	10	SW.	9	SW.	9	SW.	14	SW.	12	SW.	12	SW.	3	SW.	2	E.	3	*NE.*	4	*E.*	8	*SE.*	13
21	SW.	15	SW.	17	SW.	26	*SW.*	25	W.	37	W.	45	W.	44	W.	50	W.	48	W.	44	W.	43	W.	40	W.	32
22	W.	39	W.	44	*W.*	37	NW.	36	NW.	42	NW.	51	NW.	46	NW.	30	*NW.*	36	*W.*	33	NW.	11	*SE.*	11	NW.	12
23	SW.	9	SW.	10	SW.	14	W.	25	W.	22	W.	23	W.	21	NW.	18	*N.*	19	N.	15	NE.	20	*NE.*	15	*N.*	6
24	SW.	9	SW.	8	W.	12	NW.	8	NW.	8	NW.	6	NW.	14	N.	16	N.	14	N.	9	*NW.*	5	NW.	5	NW.	7
25	W.	18	W.	24	W.	28	W.	27	W.	33	W.	37	W.	33	W.	30	W.	29	NW.	24	N.	13	N.	13	N.	9
26	SW.	18	SW.	21	*W.*	26	W.	29	W.	29	W.	26	W.	26	W.	21	W.	20	NW.	14	*NE.*	11	NE.	9	NE.	9
27	*SW.*	11	*S.*	10	SW.	14	W.	16	SW.	11	SW.	12	SW.	13	SW.	11	SW.	11	*W.*	11	W.	9	*NW.*	13	NW.	10
28	S.	3	S.	3	S.	2	*W.*	4	NW.	5	NW.	6	NW.	9	N.	9	N.	8	N.	6	N.	3	NW.	4	NE.	5
29	NW.	17	NW.	10	NW.	11	NW.	11	NW.	11	NW.	11	NE.	11	*N.*	13	N.	11	NE.	11	NE.	12	NE.	9	NE.	9
30	NW.	7	W.	8	W.	10	W.	11	NW.	11	NW.	9	NW.	11	W.	18	*NW.*	17	NE.	8	*W.*	4	W.	4	*SE.*	7
31	SE.	10	E.	13	E.	8	E.	9	E.	8	E.	12	E.	13	E.	15	E.	16	E.	16	E.	14	E.	10	E.	12
Mean..	W. SW.	13.6	W.	14.5	W.	15.7	W.	15.5	W.	16.7	W.	18.2	W.	18.7	W.	18.1	W.	18.7	W.	15.8	NE.	13.1	NE.	12.0	NE.	10.7

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [August, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean	Max.	Min.
1	32	32	32	32	32	32	32	*32*	32	33	*34*	35	36	*37*	37	37	*38*	33	35	*36*	33	33	33	33	33.5	38	31
2	33	32	30	31	31	31	31	*31*	31	33	35	37	37	*38*	38	38	*38*	38	37	*36*	35	35	35	34	34.4	39	28
3	33	33	33	36	36	34	33	*35*	37	37	37	38	39	*40*	41	41	*41*	41	40	*38*	37	37	37	37	37.1	42	32
4	36	35	34	34	34	34	33	*34*	34	36	*37*	38	39	*40*	39	37	*39*	39	33	*33*	31	31	31	31	35.1	41	31
5	31	30	30	30	29	30	30	*31*	31	32	*35*	35	37	*37*	36	37	*37*	36	36	*35*	34	34	33	33	33.3	38	29
6	33	32	32	32	32	32	34	*33*	33	*38*	*40*	40	42	*40*	40	37	*38*	38	38	*37*	37	38	37	37	36.2	42	32
7	37	37	38	37	37	37	37	*38*	39	39	*42*	44	44	*43*	41	40	*38*	37	40	*41*	39	38	38	37	39.1	45	36
8	37	37	36	37	36	35	35	*34*	35	36	*36*	36	37	*38*	38	39	*37*	37	37	*36*	35	34	35	34	36.1	40	33
9	32	33	34	33	33	33	33	*34*	34	34	*36*	37	38	*41*	41	39	*36*	35	35	*35*	34	34	35	34	35.1	42	31
10	34	33	33	33	33	33	33	*33*	34	36	*36*	38	38	*39*	42	41	*40*	39	38	*36*	35	36	34	34	35.9	42	31
11	33	33	34	32	31	33	32	*32*	33	35	*37*	39	41	*43*	43	42	*39*	39	37	*36*	36	36	36	36	36.2	44	30
12	36	37	37	37	35	36	33	*32*	32	32	*34*	37	39	*42*	43	42	*43*	43	43	*42*	39	38	37	36	37.7	44	32
13	39	39	38	37	36	34	34	*34*	35	35	*37*	41	43	*44*	45	45	*45*	47	48	*45*	44	42	41	40	40.4	48	31
14	40	39	39	39	39	38	35	*34*	34	34	*35*	37	38	*40*	41	42	*42*	42	39	*37*	35	34	34	34	37.5	42	34
15	35	35	34	33	35	35	33	*33*	32	33	*34*	35	36	*37*	38	38	*38*	36	33	*34*	35	34	34	34	34.8	39	31
16	33	33	32	32	31	31	30	*31*	32	34	*34*	35	36	*39*	40	40	*39*	37	37	*35*	37	37	36	36	35.0	41	29
17	37	36	35	35	35	34	35	*35*	36	36	*37*	39	40	*43*	41	39	*39*	40	40	*37*	34	34	35	36	37.0	45	33
18	36	35	36	36	35	35	35	*35*	37	40	*39*	38	39	*40*	40	42	*39*	37	38	*37*	34	34	35	35	37.0	43	32
19	35	35	35	35	35	36	36	*38*	39	40	*40*	40	41	*41*	40	38	*39*	35	34	*36*	38	36	35	35	37.2	42	32
20	35	34	36	35	35	35	35	*35*	37	37	*35*	34	34	*34*	36	36	*36*	36	37	*38*	36	35	35	35	35.4	39	33
21	34	34	35	35	35	35	35	*35*	35	35	*36*	37	39	*40*	42	42	*41*	40	38	*37*	37	37	37	36	37.0	44	33
22	34	34	30	30	30	29	29	*29*	30	32	*35*	34	38	*40*	41	41	*42*	42	42	*42*	39	38	37	36	35.5	44	28
23	35	34	33	33	32	31	31	*33*	33	35	*36*	37	38	*40*	42	41	*41*	37	36	*32*	33	33	32	31	35.0	44	30
24	31	27	28	27	27	27	25	*26*	29	30	*32*	32	34	*37*	37	39	*38*	37	35	*35*	34	34	33	33	32.0	39	25
25	32	32	35	35	34	34	34	*34*	34	37	*38*	40	41	*41*	44	45	*48*	47	45	*42*	41	40	37	37	38.6	49	32
26	37	36	37	36	36	36	35	*36*	37	37	*39*	40	41	*42*	43	42	*42*	39	37	*36*	34	34	32	33	37.4	44	34
27	32	31	31	31	30	30	30	*30*	30	30	*30*	30	32	*32*	35	34	*33*	32	32	*31*	31	30	30	29	31.1	35	29
28	31	31	30	29	29	29	29	*29*	30	*30*	*31*	33	32	*34*	35	34	*32*	32	32	*32*	32	32	31	31	31.2	36	28
29	31	31	30	29	30	30	30	*30*	31	32	*33*	34	36	*34*	30	34	*35*	35	34	*34*	34	33	32	33	32.3	36	29
30	32	32	31	31	31	31	31	*30*	32	34	*36*	36	38	*37*	37	36	*35*	32	32	*32*	31	31	30	31	32.9	39	29
31	30	30	29	28	28	27	27	*27*	27	27	*28*	28	28	*28*	28	28	*28*	27	28	*28*	28	28	28	28	28.0	28	27
Mean..	34.1	33.6	33.4	33.2	33.0	32.8	32.4	32.7	33.4	34.5	35.5	36.6	37.8	38.8	39.2	38.9	38.5	37.6	37.0	36.2	35.2	34.8	34.4	34.2	35.3	41.1	30.8

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[August, 1893.

Day.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Mid.	Max.	Direction.
1	*NW.* 4	*N.* 5	N. 9	N. 14	N. 8	N. 6	N. 8	N. 7	N. 9	N. 9	N. 9	26	NW.
2	*NE.* 9	NE. 11	NE. 12	NE. 13	NE. 14	NE. 12	NE. 10	NE. 11	NE. 16	NE. 13	NE. 15	16	NE.
3	NE. 17	NE. 21	NE. 21	NE. 18	NE. 16	NE. 16	NE. 20	NE. 24	NE. 29	NE. 27	NE. 30	32	NE.
4	NE. 23	NE. 24	NE. 24	NE. 26	E. 25	NE. 24	NE. 16	NE. 14	NE. 22	E. 16	E. 7	32	NE.
5	E. 7	E. 9	E. 17	E. 9	E. 12	E. 13	E. 11	E. 12	E. 15	E. 18	E. 23	26	E.
6	NE. 7	E. 6	N. 7	NE. 6	NE. 4	NE. 4	SW. 13	SW. 15	W. 14	W. 16	W. 17	27	W.
7	NE. 8	E. 6	E. 6	E. 10	E. 5	*N.* 3	W. 4	E. 1	N. 4	N. 7	N. 8	26	W.
8	*S.* 12	SW. 9	SW. 11	S. 15	SW. 18	SW. 13	SW. 12	SW. 11	SW. 10	W. 10	W. 10	26	SW.
9	*N.* 6	NW. 6	SW. 14	SW. 13	*NW.* 21	NW. 25	NW. 17	NW. 24	NW. 29	NW. 23	N. 17	48	W.
10	W. 8	W. 7	W. 8	SW. 10	SW. 12	*S.* 11	*SW.* 11	*S.* 9	W. 11	W. 7	*SW.* 11	16	SW.
11	SW. 11	SW. 15	W. 23	SW. 15	SW. 12	*SW.* 15	SW. 18	S. 20	SW. 20	SW. 20	SW. 16	31	W.
12	N. 11	N. 8	N. 8	N. 8	N. 8	N. 9	N. 7	N. 10	N. 9	N. 12	N. 13	59	W.
13	*SW.* 7	W. 10	SW. 13	W. 15	W. 11	W. 14	W. 10	N. 5	*N.* 6	S. 10	S. 13	32	W.
14	SW. 8	W. 7	*W.* 7	W. 9	SW. 11	W. 9	SW. 15	W. 25	*NW.* 22	W. 17	NW. 11	52	W.
15	*W.* 7	SW. 12	SW. 17	SW. 15	*SW.* 20	W. 19	W. 29	W. 25	*NW.* 14	NW. 11	NW. 7	37	W.
16	SW. 13	SW. 12	SW. 17	SW. 15	W. 13	W. 18	W. 16	W. 17	NW. 8	W. 6	NW. 3	26	W.
17	N. 6	N. 6	*N.* 8	*N.* 9	N. 9	*E.* 18	NE. 23	NE. 18	NE. 17	E. 11	*NE.* 4	28	NE.
18	SW. 6	SW. 9	SW. 13	SW. 11	NW. 11	NW. 14	NW. 9	W. 6	*N.* 13	NE. 9	NE. 11	25	NW.
19	NE. 6	NE. 7	SE. 7	SW. 8	*E.* 8	S. 13	S. 9	*SE.* 11	SE. 8	S. 10	S. 9	19	S.
20	SE. 14	S. 8	S. 5	*E.* 4	E. 4	S. 4	*NW.* 4	E. 5	*S.* 13	S. 14	S. 12	18	SE.
21	W. 20	W. 15	SW. 10	SW. 15	SW. 21	SW. 21	SW. 48	W. 45	W. 43	W. 37	W. 47	56	W.
22	*W.* 8	NW. 8	*NW.* 9	NW. 8	NW. 7	NW. 7	NW. 6	NW. 8	NW. 6	NW. 8	*SW.* 8	58	NW.
23	W. 7	W. 8	*W.* 7	*N.* 6	E. 7	W. 11	SW. 18	SW. 23	SW. 16	SW. 15	SW. 12	32	SW.
24	NW. 7	NW. 8	*SW.* 10	SW. 15	SW. 15	SW. 12	SW. 15	NW. 20	SW. 19	W. 17	W. 16	22	SW.
25	NW. 6	W. 8	W. 8	*NW.* 10	W. 12	*W.* 13	SW. 14	SW. 12	SW. 17	*SW.* 19	S. 17	38	W.
26	NE. 8	NE. 11	*E.* 13	*NE.* 12	NE. 15	NE. 15	NE. 17	NE. 13	NE. 11	*E.* 6	*SW.* 10	32	W.
27	NW. 5	NE. 6	NE. 7	NE. 7	NE. 8	NE. 6	NE. 4	N. 5	*N.* 3	N. 2	*NW.* 3	21	W.
28	NE. 5	W. 6	*SW.* 9	W. 7	W. 8	NW. 8	NW. 17	W. 13	W. 16	W. 18	W. 17	21	NW.
29	NE. 8	N. 10	NE. 8	*NE.* 7	NW. 5	N. 11	NE. 6	NE. 4	NW. 3	E. 6	*N.* 5	20	NW.
30	E. 6	E. 7	SE. 10	S. 12	*W.* 14	S. 18	S. 14	S. 11	S. 10	S. 8	SW. 9	26	S.
31	NE. 12	NE. 19	NE. 20	NE. 14	NE. 18	NE. 15	NE. 14	NE. 15	NE. 15	NE. 13	NE. 10	24	NE.
Mean..	NE. 9.1	W. / NE. 9.7	SW. 11.5	SW. 11.5	SW. 11.9	W. / NE. 12.8	SW. 14.0	NE. / SW. 14.2	NW. 14.5	W. 13.4	SW. 12.9	.....	.....

PIKES PEAK, COLO.

PRESSURE, 17 INCHES +.

NOTE.—All eye readings are printed in *italics*.

September, 1893.] [Seventy-fifth

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	1.06	1.06	1.07	1.07	1.07	1.08	1.09	*1.09*	1.09	1.10	*1.09*	1.10	1.10	*1.09*	1.10	1.10	*1.10*	1.08	1.08	*1.08*	1.07	1.07	1.07	1.08	1.08	1.10	1.06
2	1.08	1.07	1.06	1.05	1.05	1.05	1.05	*1.06*	1.06	1.07	*1.07*	1.08	1.09	*1.09*	1.09	1.09	*1.08*	1.08	1.07	*1.06*	1.06	1.06	1.07	1.07	1.07	1.09	1.05
3	1.06	1.05	1.05	1.05	1.05	1.05	1.05	*1.05*	1.05	1.07	*1.07*	1.08	1.08	*1.08*	1.09	1.09	*1.10*	1.09	1.08	*1.07*	1.08	1.08	1.08	1.07	1.07	1.10	1.05
4	1.07	1.07	1.07	1.07	1.06	1.06	1.06	*1.06*	1.06	*1.06*	*1.08*	1.08	1.08	*1.08*	1.08	1.07	*1.06*	1.06	1.05	*1.05*	1.05	1.05	1.06	1.05	1.06	1.08	1.05
5	1.05	1.04	1.04	1.03	1.03	1.03	1.02	*1.03*	1.03	1.03	*1.03*	1.03	1.05	*1.04*	1.04	1.03	*1.03*	1.03	1.02	*1.01*	1.01	1.02	1.02	1.01	1.03	1.05	1.01
6	1.01	1.01	1.00	1.00	1.00	.99	1.00	*1.01*	1.00	1.02	*1.02*	1.05	1.03	*1.03*	1.03	1.03	*1.02*	1.02	1.02	*1.01*	1.01	1.01	1.01	1.01	1.01	1.03	.99
7	1.01	1.01	1.00	.99	.98	.98	.98	*.98*	.97	.99	*1.00*	1.00	1.00	*.99*	.99	.98	*.96*	.95	.93	*.91*	.90	.88	.87	.85	.96	1.01	.85
8	.84	.80	.80	.80	.80	.80	.81	*.83*	.85	.90	*.93*	.94	1.00	*.96*	.97	.96	*.96*	.96	.97	*.97*	.97	.97	.97	.98	.91	1.00	.80
9	.98	.98	.98	.98	.98	.97	.97	*.97*	.96	.97	*.98*	.99	.99	*.99*	.99	.99	*.99*	.97	.97	*.97*	.97	.96	.96	.96	.98	.99	.96
10	.97	.97	.97	.97	.97	.97	.97	*.99*	1.00	1.00	*1.00*	1.01	1.02	*1.02*	1.02	1.01	*1.01*	1.00	.99	*.98*	.98	.99	.99	.98	.99	1.02	.97
11	.97	.98	.97	.96	.95	.95	.96	*.96*	.98	.98	*.98*	.99	.99	*.99*	.98	.98	*.97*	.95	.94	*.93*	.93	.93	.92	.90	.96	.99	.90
12	.87	.84	.81	.79	.77	.76	.76	*.76*	.78	.82	*.84*	.86	.86	*.87*	.88	.88	*.87*	.86	.86	*.85*	.84	.84	.84	.82	.83	.88	.76
13	.77	.77	.79	.79	.78	.77	.77	*.80*	.83	.84	*.86*	.88	.88	*.88*	.88	.89	*.89*	.90	.90	*.91*	.91	.93	.93	.93	.85	.93	.77
14	.93	.93	.92	.93	.94	.94	.95	*.96*	.97	1.00	*.99*	.99	1.01	*1.01*	1.01	1.02	*1.02*	1.02	1.03	*1.03*	1.03	1.04	1.05	1.04	.99	1.05	.92
15	1.04	1.04	1.04	1.05	1.05	1.06	1.06	*1.07*	1.08	1.12	*1.13*	1.14	1.15	*1.16*	1.16	1.15	*1.14*	1.14	1.14	*1.14*	1.14	1.13	1.12	1.11	1.11	1.16	1.04
16	1.07	1.06	1.05	1.02	1.00	1.00	.99	*.99*	.98	.98	*.99*	.99	1.00	*1.00*	.97	.96	*.94*	.93	.92	*.86*	.85	.82	.82	.82	.96	1.07	.82
17	.80	.78	.78	.76	.75	.77	.75	*.75*	.75	.79	*.80*	.82	.83	*.83*	.82	.81	*.82*	.80	.80	*.79*	.79	.79	.78	.79	.79	.83	.75
18	.78	.76	.74	.73	.73	.74	.74	*.74*	.73	.76	*.78*	.79	.80	*.84*	.85	.86	*.87*	.87	.87	*.88*	.88	.88	.89	.90	.81	.90	.73
19	.90	.91	.89	.88	.88	.89	.89	*.90*	.90	.91	*.94*	.95	.96	*.96*	.96	.95	*.94*	.94	.94	*.94*	.93	.93	.93	.91	.92	.96	.88
20	.88	.86	.85	.84	.82	.81	.81	*.81*	.79	.78	*.78*	.78	.82	*.82*	.85	.85	*.85*	.84	.84	*.84*	.83	.82	.81	.78	.82	.88	.78
21	.74	.73	.74	.74	.73	.72	.71	*.71*	.74	.74	*.76*	.78	.82	*.82*	.82	.82	*.83*	.84	.86	*.86*	.87	.87	.89	.88	.79	.89	.71
22	.88	.87	.85	.84	.83	.81	.81	*.81*	.81	.81	*.84*	.86	.88	*.91*	.93	.92	*.92*	.93	.94	*.94*	.95	.96	.96	.96	.88	.96	.81
23	.96	.96	.96	.96	.95	.94	.94	*.94*	.92	.92	*.94*	.95	.94	*.93*	.92	.91	*.87*	.86	.86	*.86*	.86	.86	.89	.89	.92	.96	.86
24	.89	.90	.90	.89	.88	.88	.89	*.89*	.89	.90	*.91*	.92	.92	*.92*	.92	.93	*.93*	.93	.93	*.94*	.94	.94	.94	.94	.91	.94	.88
25	.94	.93	.93	.93	.92	.91	.91	*.91*	.92	.92	*.95*	.96	.95	*.96*	.95	.95	*.94*	.94	.92	*.93*	.92	.92	.93	.93	.93	.96	.91
26	.93	.93	.94	.93	.92	.93	.93	*.93*	.93	.93	*.93*	.94	.95	*.96*	.95	.94	*.94*	.94	.94	*.95*	.95	.95	.95	.95	.94	.96	.92
27	.94	.93	.92	.91	.90	.90	.90	*.90*	.90	.94	*.96*	.97	.98	*.98*	.98	.97	*.96*	.94	.94	*.94*	.93	.93	.93	.93	.94	.98	.90
28	.91	.90	.89	.88	.85	.83	.82	*.79*	.77	.77	*.78*	.78	.78	*.78*	.78	.77	*.76*	.75	.75	*.73*	.73	.73	.73	.73	.79	.91	.73
29	.73	.73	.73	.72	.72	.71	.71	*.71*	.70	.71	*.72*	.72	.71	*.71*	.70	.70	*.67*	.65	.62	*.64*	.64	.63	.62	.59	.69	.73	.59
30	.57	.57	.55	.55	.55	.54	.53	*.53*	.50	.50	*.47*	.48	.49	*.52*	.52	.51	*.50*	.51	.52	*.52*	.52	.53	.52	.52	.52	.57	.47
Mean.	.92	.92	.91	.90	.90	.90	.89	.90	.90	.91	.92	.93	.94	.94	.94	.94	.93	.93	.92	.92	.92	.92	.92	.91	.92	.97	.86

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

September, 1893.]

Day.	0-1h a. m.		1-2h		2-3h		3-4h		4-5h		5-6h		6-7h		7-8h		8-9h		9-10h		10-11h		11-Noon.		Noon-1h p. m.	
1	E.	12	NE.	9	NE.	9	NE.	7	NE.	8	E.	8	E.	9	E.	9	SE.	6	S.	9	S.	5	SE.	4	SE.	5
2	SW.	7	SW.	10	SW.	9	W.	13	W.	17	W.	14	*N.*	9	*NE.*	9	NE.	9	NE.	10	NE.	10	NE.	8	NE.	7
3	NE.	9	NE.	11	NE.	12	NE.	13	NE.	15	NE.	21	NE.	29	NE.	33	NE.	31	*E.*	30	E.	27	E.	26	E.	24
4	E.	20	E.	16	E.	18	E.	20	NE.	20	NE.	20	NE.	24	E.	28	E.	27	E.	28	E.	28	E.	29	E.	28
5	SE.	11	SE.	11	SE.	12	E.	6	E.	5	E.	7	NE.	8	NE.	11	NE.	11	E.	11	E.	12	E.	9	E.	10
6	SW.	18	W.	24	W.	26	W.	25	W.	23	W.	20	NW.	16	NW.	13	NW.	11	W.	5	SW.	5	S.	7	SE.	4
7	SW.	13	SW.	14	SW.	15	SW.	18	W.	19	SW.	19	SW.	25	W.	25	W.	28	SW.	26	S.	15	S.	17	S.	17
8	SW.	48	SW.	65	SW.	61	W.	55	W.	50	W.	48	W.	54	W.	55	W.	43	W.	22	W.	9	W.	8	W.	8
9	SW.	13	SW.	13	W.	13	NW.	12	W.	19	W.	21	SW.	21	SW.	20	SW.	16	SW.	13	*S.*	9	*SE.*	8	SE.	7
10	SW.	16	SW.	14	SW.	15	SW.	15	SW.	10	SW.	11	SW.	9	*SE.*	8	SE.	9	SE.	9	*E.*	8	*SE.*	8	SE.	8
11	S.	17	SW.	15	SW.	16	W.	26	SW.	25	W.	24	W.	23	W.	6	*N.*	3	E.	6	*E.*	7	E.	7	E.	6
12	SW.	35	W.	47	W.	57	W.	64	W.	64	W.	70	W.	69	W.	64	SW.	55	SW.	35	SW.	31	SW.	23	SW.	21
13	W.	58	W.	57	SW.	49	SW.	41	SW.	40	SW.	55	W.	61	W.	57	SW.	39	SW.	26	SW.	26	S.	14	S.	17
14	SW.	19	SW.	22	SW.	32	SW.	29	SW.	25	SW.	24	SW.	27	SW.	31	SW.	28	SW.	21	SW.	21	S.	17	S.	19
15	W.	42	W.	45	W.	44	W.	23	W.	21	W.	26	W.	34	W.	33	SW.	29	S.	18	SW.	16	S.	19	S.	18
16	SW.	42	SW.	41	SW.	40	SW.	52	SW.	55	SW.	60	SW.	64	SW.	61	SW.	56	SW.	56	SW.	55	SW.	54	SW.	44
17	SW.	38	SW.	42	SW.	44	SW.	44	SW.	49	SW.	45	SW.	45	W.	50	W.	49	W.	49	SW.	34	SW.	21	SW.	17
18	SW.	18	S.	19	SW.	32	SW.	33	SW.	30	SW.	25	SW.	31	SW.	40	W.	48	W.	43	SW.	31	SW.	37	*W.*	35
19	NW.	15	NW.	17	W.	36	W.	40	W.	41	*W.*	38	S.	37	S.	35	SW.	33	SW.	41	SW.	38	S.	14	S.	18
20	SW.	39	SW.	51	SW.	59	SW.	61	SW.	62	SW.	68	SW.	68	SW.	71	SW.	68	W.	79	W.	76	W.	71	SW.	62
21	SW.	44	SW.	46	SW.	42	SW.	34	SW.	26	SW.	39	SW.	42	SW.	40	SW.	37	SW.	30	SW.	32	SW.	27	SW.	25
22	W.	26	W.	31	W.	35	W.	37	W.	34	W.	41	W.	44	W.	46	W.	49	W.	50	W.	49	*W.*	45	*W.*	36
23	*NW.*	6	N.	3	N.	2	N.	3	SW.	4	SW.	5	SW.	11	SW.	15	SW.	17	SW.	14	SW.	16	SW.	17	SW.	18
24	N.	11	N.	11	*NW.*	11	NW.	12	NW.	14	NW.	18	N.	22	N.	20	*N.*	13	*NE.*	11	NW.	13	*NW.*	10	E.	7
25	SW.	17	SW.	18	SW.	18	SW.	18	SW.	21	SW.	25	W.	26	W.	24	W.	22	W.	23	W.	19	W.	15	SW.	6
26	NW.	18	N.	13	NW.	13	NW.	14	NW.	14	NW.	15	NE.	16	N.	14	N.	13	N.	9	NW.	8	W.	9	*W.*	7
27	SW.	24	SW.	20	SW.	19	SW.	20	SW.	19	SW.	15	SW.	13	SW.	13	SW.	13	W.	18	W.	23	*SW.*	17	SW.	10
28	S.	23	S.	32	S.	27	SE.	27	SE.	26	SE.	30	*S.*	21	S.	26	S.	25	S.	23	S.	15	S.	14	S.	11
29	N.	16	N.	15	NW.	16	NW.	20	*N.*	13	*NW.*	10	NW.	4	NW.	6	NW.	5	W.	4	W.	4	*SW.*	8	*W.*	16
30	SW.	45	SW.	34	SW.	36	SW.	28	SW.	20	SW.	23	S.	27	S.	20	SW.	20	SW.	20	SW.	26	SW.	37	SW.	34
Mean.	SW.	24.0	SW.	25.5	SW.	27.3	SW.	27.0	SW.	26.6	SW.	28.2	SW.	29.6	SW.	29.4	SW.	27.1	SW.	24.6	SW.	22.3	SW.	19.9	SW.	18.2

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [September, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	26	26	25	25	26	26	26	27	27	27	29	30	30	30	29	29	29	29	29	29	28	27	27	26	27.6	34	24
2	27	26	26	26	26	26	25	25	27	28	28	29	29	31	30	31	31	33	33	32	32	31	31	31	28.9	34	24
3	31	31	31	31	31	31	30	30	30	30	32	33	34	35	35	36	36	36	36	35	35	34	33	32	33	4	37	28
4	32	31	31	31	31	31	30	31	33	34	34	35	35	36	36	36	36	36	36	36	35	34	33	32	33	33.4	38	30
5	33	33	32	31	31	32	32	32	35	37	38	38	38	37	37	38	39	40	38	36	34	34	33	33	33	35.0	40	30
6	32	32	32	32	32	32	32	32	32	35	36	38	40	40	42	42	40	40	41	38	37	37	36	36	36.1	44	31
7	35	34	35	34	33	33	33	33	33	34	37	39	41	42	42	44	43	43	41	41	38	36	35	33	37.2	45	32
8	32	29	29	28	27	27	27	28	28	27	30	32	34	36	38	40	41	40	39	38	33	32	33	32	32.5	42	26
9	31	31	31	31	31	31	31	31	32	33	36	37	39	40	42	42	43	44	42	39	36	35	35	36	35.8	45	30
10	35	35	34	34	34	34	34	34	35	36	38	39	41	42	43	42	43	43	42	40	37	35	34	33	37.4	45	33
11	33	34	33	32	32	33	33	35	37	38	41	41	41	42	44	45	45	45	43	41	39	38	37	36	38.2	47	32
12	35	35	35	34	32	32	32	32	32	34	36	38	41	42	44	44	44	44	43	41	41	39	35	34	37.9	44	31
13	32	31	30	30	30	29	28	28	28	29	31	33	35	36	38	39	40	40	40	38	36	34	32	32	33.3	41	28
14	32	32	31	30	30	29	28	28	31	31	34	37	37	38	41	43	43	43	41	40	39	38	37	37	35.4	44	27
15	36	36	35	34	34	33	33	33	34	35	35	34	33	32	34	37	37	36	38	33	33	29	26	25	33.5	38	32
16	26	26	29	29	29	29	28	29	29	31	32	35	37	38	39	39	39	38	35	33	31	31	30	29	31.7	40	24
17	29	29	28	28	27	27	27	26	27	28	28	30	31	34	34	34	36	34	33	33	31	31	29	29	30.4	36	25
18	28	27	27	26	25	24	23	24	25	26	29	31	33	36	38	39	39	39	37	35	34	32	31	31	30.1	40	23
19	30	29	28	28	27	27	27	27	27	28	32	33	34	35	36	37	37	36	36	34	32	31	30	30	31.3	39	26
20	28	28	28	27	27	27	26	26	27	29	30	32	34	35	38	38	40	39	37	34	32	31	30	29	31.3	41	25
21	28	28	27	27	26	25	25	24	24	25	26	29	32	34	36	36	37	37	35	33	32	30	29	28	29.7	38	22
22	28	26	25	26	24	23	23	23	24	24	26	28	33	35	37	37	36	35	34	33	31	30	29	29	29.1	38	23
23	28	27	26	27	27	27	26	25	26	27	28	30	31	32	34	33	33	32	32	31	30	29	29	29	29.1	34	24
24	29	28	27	27	26	25	25	24	24	24	26	26	30	32	31	30	27	26	25	24	24	23	21	21	26.0	34	24
25	20	20	19	19	19	19	20	21	22	23	25	28	29	30	32	33	33	32	30	26	26	26	26	26	25.2	34	18
26	25	25	25	24	23	24	24	24	24	25	26	27	28	29	30	32	26	24	24	24	24	23	23	23	25.2	33	23
27	23	23	23	23	23	23	23	23	24	24	25	27	31	33	33	32	31	29	27	27	26	28	28	27	26.5	34	22
28	26	26	26	27	25	26	25	25	25	26	26	26	28	28	29	27	25	27	27	27	27	27	26	26	26.4	29	24
29	26	26	24	25	26	25	25	25	25	28	28	28	30	32	33	34	33	32	32	30	28	27	26	25	27.9	35	24
30	25	24	24	24	24	23	23	22	22	21	22	22	22	27	29	30	30	25	23	23	22	20	18	18	23.5	31	22
Mean	29.4	28.9	28.5	28.3	27.9	27.8	27.5	27.5	28.2	29.1	30.6	32.0	33.5	34.8	36.0	36.6	36.5	35.9	34.9	33.4	32.0	30.9	30.0	29.6	31.2	38.5	26.2

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[September, 1893.

Day.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Mid.	Max.	Direction.
1	SW. 7	SW. 8	*SW.* 9	*S.* 8	*SW.* 9	S. 8	SW. 8	*S.* 8	SW. 8	SW. 7	SW. 6	12	SW.
2	NE. 6	NE. 5	NE. 9	E. 12	E. 10	E. 12	E. 10	E. 11	E. 9	NE. 8	NE. 8	18	W.
3	E. 20	E. 19	E. 16	E. 18	E. 18	E. 22	E. 21	E. 17	E. 17	E. 16	E. 18	36	NE.
4	E. 23	E. 22	E. 18	E. 14	E. 12	E. 8	E. 7	E. 9	SE. 9	SE. 10	SE. 10	32	E.
5	E. 7	E. 7	*SE.* 7	SE. 8	SE. 9	SE. 12	SW. 15	SW. 12	W. 11	SW. 18	SW. 18	20	SW.
6	*NE.* 5	SE. 4	SE. 5	SE. 6	SE. 10	SW. 8	SW. 13	SW. 12	SW. 13	SW. 12	SW. 12	29	W.
7	S. 19	SW. 19	SW. 23	SW. 26	SW. 25	SW. 28	SW. 26	SW. 28	SW. 38	SW. 45	SW. 48	54	SW.
8	W. 8	SW. 9	SW. 11	SW. 13	SW. 16	SW. 21	SW. 17	SW. 20	SW. 21	SW. 20	SW. 16	76	W.
9	SE. 7	SE. 6	*S.* 8	SE. 9	SW. 16	SW. 18	SW. 19	SW. 25	SW. 26	SW. 23	SW. 19	27	SW.
10	SE. 8	SE. 8	*S.* 10	S. 11	*SW.* 16	SW. 17	SW. 19	*S.* 21	S. 21	S. 20	S. 18	23	SW.
11	S. 6	S. 10	*SW.* 12	SW. 16	SW. 18	SW. 23	SW. 21	SW. 20	SW. 20	SW. 22	SW. 26	28	SW.
12	S. 16	S. 13	S. 16	S. 21	S. 24	S. 21	S. 17	SW. 18	SW. 28	SW. 31	SW. 41	75	W.
13	SW. 21	S. 22	S. 19	S. 19	S. 22	S. 20	SW. 21	SW. 19	S. 20	SW. 21	SW. 20	64	W.
14	S. 21	SW. 23	SW. 25	SW. 29	SW. 31	SW. 28	SW. 37	SW. 35	SW. 38	SW. 39	W. 41	43	SW.
15	SW. 20	S. 17	*S.* 14	SW. 15	SW. 19	SW. 19	SW. 14	SW. 16	S. 18	S. 29	S. 35	54	W.
16	SW. 32	SW. 33	S. 20	SW. 29	SW. 26	SW. 25	S. 34	SW. 50	SW. 53	SW. 43	SW. 34	66	SW.
17	SW. 19	SW. 20	S. 20	SW. 20	SW. 21	SW. 24	S. 21	*SW.* 15	SW. 21	SW. 24	SW. 22	58	W.
18	*S.* 21	SW. 21	SW. 18	SW. 17	SW. 17	S. 20	S. 21	S. 20	S. 17	S. 16	S. 20	55	W.
19	S. 22	S. 21	S. 28	S. 27	S. 32	S. 25	SW. 24	SW. 26	SW. 28	SW. 30	SW. 36	50	SW.
20	SW. 52	SW. 29	S. 24	S. 26	SW. 27	*SW.* 23	S. 19	S. 19	*S.* 21	SW. 25	SW. 32	84	W.
21	SW. 22	SW. 23	SW. 27	SW. 26	SW. 22	SW. 17	W. 16	W. 21	W. 26	W. 10	W. 18	56	SW.
22	SW. 20	SW. 23	SW. 21	W. 20	W. 16	NW. 14	NW. 18	*N.* 9	NE. 11	N. 12	NW. 10	58	W.
23	SW. 14	SW. 18	SW. 21	*SW.* 36	W. 43	W. 44	W. 47	W. 45	W. 41	W. 30	NW. 16	52	W.
24	SW. 6	SW. 10	*E.* 8	SE. 7	SW. 16	SE. 8	SE. 6	*S.* 11	S. 17	S. 13	*SW.* 15	25	N.
25	SW. 7	SW. 12	SW. 10	SW. 11	SW. 18	SW. 26	SW. 15	W. 25	W. 23	NW. 18	NW. 18	30	SW.
26	W. 8	NW. 9	*SE.* 14	SE. 13	S. 16	SE. 16	SW. 13	S. 13	SW. 22	S. 24	S. 24	28	S.
27	SW. 13	SW. 8	SW. 8	SW. 13	SW. 26	SW. 12	SW. 16	SW. 13	S. 8	S. 12	S. 17	29	SW.
28	S. 10	SW. 11	*W.* 10	W. 10	*NW.* 19	NW. 21	NW. 18	*N.* 17	N. 18	N. 17	N. 17	37	S.
29	*SW.* 15	W. 14	W. 18	*W.* 30	W. 34	SW. 35	SW. 35	SW. 27	SW. 44	SW. 50	*SW.* 53	62	W.
30	*W.* 33	S. 30	SW. 30	SW. 31	*S.* 29	S. 19	*SW.* 27	*W.* 21	SW. 21	SW. 23	SW. 21	55	SW.
Mean	SW. 16.3	SW. 15.8	SW. 16.3	SW. 17.9	SW. 20.6	SW. 19.8	SW. 19.8	SW. 20.1	SW. 22.2	SW. 22.2	SW. 22.9	.....	.....

PIKES PEAK, COLO.

PRESSURE, 17 INCHES +.

NOTE.—All eye readings are printed in *italics*.

October, 1893.] [Seventy-fifth

Day	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.51	.51	.51	.50	.49	.48	.48	.48	.51	.52	.54	.54	.55	.55	.55	.55	.56	.57	.58	.59	.60	.61	.62	.62	.54	.62	.48
2	.62	.61	.61	.61	.61	.61	.61	.65	.63	.65	.65	.66	.67	.68	.69	.69	.69	.71	.72	.73	.74	.74	.74	.74	.67	.74	.61
3	.74	.74	.72	.70	.70	.69	.69	.67	.66	.66	.64	.65	.68	.70	.73	.72	.72	.72	.71	.71	.70	.67	.64	.69	.69	.74	.63
4	.59	.55	.52	.53	.53	.49	.47	.49	.49	.51	.57	.59	.60	.60	.57	.57	.57	.58	.59	.60	.60	.60	.59	.57	.56	.60	.47
5	.56	.55	.51	.50	.46	.46	.48	.49	.49	.51	.56	.58	.60	.63	.63	.63	.64	.66	.67	.71	.71	.72	.70	.71	.59	.72	.46
6	.72	.72	.71	.71	.70	.70	.72	.73	.74	.75	.80	.78	.79	.80	.80	.80	.79	.79	.76	.74	.73	.73	.74	.74	.75	.80	.70
7	.75	.74	.73	.73	.73	.73	.73	.74	.73	.74	.76	.79	.84	.87	.87	.88	.86	.87	.86	.87	.86	.87	.83	.85	.80	.87	.73
8	.84	.84	.85	.85	.83	.84	.84	.84	.84	.86	.90	.92	.94	.96	.95	.93	.93	.93	.92	.92	.91	.90	.90	.90	.89	.96	.83
9	.89	.88	.87	.85	.83	.82	.79	.79	.77	.75	.75	.74	.76	.78	.78	.76	.74	.74	.74	.73	.73	.72	.72	.72	.78	.89	.72
10	.71	.71	.71	.71	.71	.71	.71	.73	.73	.75	.76	.78	.79	.80	.79	.76	.74	.72	.70	.70	.69	.69	.69	.69	.73	.80	.69
11	.6	.67	.66	.64	.61	.60	.60	.62	.64	.66	.68	.73	.76	.77	.78	.78	.79	.81	.82	.84	.86	.87	.87	.72	.87	.60
12	.87	.87	.87	.87	.87	.87	.87	.87	.90	.93	.94	.95	.95	.96	.94	.90	.90	.91	.91	.91	.91	.90	.90	.90	.96	.87
13	.92	.92	.92	.92	.92	.92	.92	.93	.94	.96	.97	.97	.98	.99	.98	.98	.97	.97	.97	.97	.98	.99	.99	.99	.96	.99	.92
14	1.00	1.00	1.00	1.00	.98	.98	.98	.99	.99	1.00	1.03	1.03	1.03	1.04	1.04	1.02	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.04	.98
15	1.01	1.01	1.01	1.00	.98	.98	.98	.98	.98	.99	1.01	1.01	1.01	.99	.97	.97	.97	.96	.96	.96	.96	.94	.94	.93	.93	1.01	.93
16	.92	.90	.89	.87	.85	.85	.85	.83	.82	.85	.85	.85	.84	.83	.83	.82	.81	.82	.82	.82	.82	.82	.81	.80	.84	.92	.80
17	.82	.83	.84	.84	.84	.84	.85	.86	.88	.89	.90	.90	.90	.91	.91	.91	.91	.91	.91	.91	.91	.91	.91	.91	.88	.91	.83
18	.91	.91	.91	.91	.90	.91	.92	.94	.95	.97	.98	.98	.98	.98	.98	.98	.98	.97	.97	.98	.99	.99	1.00	1.00	.96	1.00	.90
19	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.02	1.03	1.05	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.06	1.07	1.07	1.07	1.07	1.04	1.07	1.00
20	1.07	1.08	1.08	1.08	1.08	1.07	1.07	1.07	1.08	1.09	1.10	1.10	1.10	1.09	1.09	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.06	1.05	1.08	1.10	1.05
21	1.04	1.03	1.01	.99	.98	.98	.98	.97	.97	.97	.97	.97	.95	.93	.91	.90	.89	.88	.86	.84	.83	.82	.82	.82	.93	1.04	.82
22	.79	.79	.75	.75	.73	.73	.74	.75	.75	.76	.76	.76	.74	.72	.71	.70	.70	.68	.65	.63	.60	.59	.58	.56	.70	.79	.56
23	.53	.49	.50	.50	.50	.51	.54	.55	.55	.55	.55	.55	.57	.59	.64	.64	.65	.64	.65	.67	.67	.67	.67	.65	.58	.67	.49
24	.65	.65	.66	.70	.70	.70	.70	.72	.73	.75	.75	.74	.74	.72	.71	.73	.72	.72	.72	.71	.71	.69	.68	.66	.71	.75	.65
25	.64	.62	.61	.57	.55	.55	.53	.52	.53	.57	.57	.57	.57	.55	.55	.53	.53	.55	.55	.57	.57	.57	.57	.60	.57	.64	.52
26	.60	.59	.58	.57	.57	.55	.55	.57	.60	.65	.68	.70	.70	.70	.70	.70	.72	.73	.74	.75	.76	.77	.77	.78	.67	.78	.55
27	.78	.79	.79	.79	.79	.79	.78	.78	.81	.82	.85	.87	.87	.87	.89	.90	.92	.92	.92	.93	.93	.93	.93	.93	.86	.93	.78
28	.93	.93	.92	.90	.88	.88	.89	.89	.90	.93	.95	.94	.94	.94	.93	.94	.95	.95	.96	.96	.97	.98	.98	.99	.94	.99	.88
29	.99	.99	.99	.99	1.00	1.00	1.00	1.00	.99	.99	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.01	1.01	1.00	.99	.98	.97	.96	1.00	1.02	.96
30	.96	.95	.88	.88	.88	.88	.88	.87	.86	.86	.85	.84	.85	.86	.82	.83	.82	.81	.80	.80	.77	.78	.76	.75	.84	.96	.75
31	.70	.68	.68	.67	.66	.66	.67	.68	.67	.70	.71	.70	.70	.71	.71	.71	.69	.68	.69	.69	.69	.64	.62	.61	.68	.71	.61
Mean.	.80	.79	.78	.78	.77	.77	.77	.77	.78	.79	.81	.81	.82	.82	.82	.82	.82	.82	.82	.82	.82	.81	.81	.81	.80	.87	.73

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

October, 1893.]

Day.	0–1h a. m.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Noon.	Noon–1h p. m.
1	W. 21	SW. 14	S. 11	S. 10	*S.* 10	SW. 10	SW. 10	SW. 9	SW. 10	SW. 10	*SW.* 8	S. 11	SW. 11
2	NW. 17	NW. 18	NW. 17	NW. 14	N. 9	N. 13	N. 11	N. 12	*NE.* 11	W. 24	W. 26	*NW.* 14	*N.* 15
3	NE. 15	NW. 20	N. 22	N. 37	N. 28	NW. 42	NW. 42	NW. 39	NW. 41	*W.* 45	W. 64	W. 63	W. 54
4	W. 57	W. 69	W. 73	SW. 58	W. 49	*SW.* 69	SW. 69	*W.* 66	W. 62	W. 53	SW. 40	SW. 21	S. 15
5	SW. 26	SW. 19	*NW.* 28	NW. 32	*W.* 44	NW. 39	NW. 35	NE. 28	NE. 36	NW. 35	NW. 37	NW. 38	NW. 44
6	NW. 51	NW. 53	N. 45	*N.* 44	*NW.* 44	NW. 42	NW. 38	NW. 33	NW. 34	NW. 39	NW. 38	NW. 48	NW. 43
7	W. 64	W. 66	W. 67	W. 67	W. 58	W. 52	W. 54	W. 53	W. 53	W. 58	W. 52	W. 49	SW. 28
8	NW. 53	NW. 57	NW. 36	NW. 36	NW. 40	NW. 27	NW. 47	W. 48	W. 46	NW. 26	NW. 19	W. 16	E. 10
9	SW. 23	SW. 24	SW. 28	SW. 36	SW. 42	SW. 40	SW. 44	SW. 46	SW 48	SW. 41	W. 48	W. 54	SW. 49
10	W. 58	W. 62	W. 63	W. 59	W. 60	W. 60	W. 62	W. 46	*W.* 26	SW. 15	SW. 23	SW. 27	*SW.* 17
11	SW. 19	SW. 18	SW. 17	SW. 19	*W.* 27	NW. 23	NW. 24	NW. 28	N. 20	NW. 31	N. 29	NW. 39	*N.* 24
12	NE. 26	NE. 25	NE. 19	NE. 23	NE. 25	NE. 22	NE. 22	NE. 20	NE. 16	N. 17	N. 13	N. 15	N. 25
13	NW. 38	N. 28	NE. 19	NW. 20	NW. 36	NW. 32	*N.* 28	NW. 30	NW. 35	NW. 34	*NW.* 32	NW. 30	NW. 28
14	N. 27	*NE.* 16	*N.* 18	NE. 19	NE. 13	NE. 9	*N.* 11	*NE.* 11	NE. 11	*N.* 14	NE. 11	*NE.* 11	N. 19
15	NW. 19	NW. 16	W. 17	W. 17	W. 22	W. 22	W. 21	W. 14	W. 11	W. 6	W. 3	*SE.* 3	S. 7
16	SW. 39	SW. 42	SW. 44	SW. 46	SW. 50	SW. 49	SW. 46	SW. 40	*W.* 55	W. 50	*SW.* 55	SW. 52	SW. 58
17	SW. 38	SW. 23	SW. 24	SW. 24	SW. 18	SW. 30	SW. 24	S. 21	SW. 29	SW. 22	SW. 19	SW. 17	S. 17
18	SW. 36	SW. 37	W. 42	SW. 42	W. 45	W. 37	W. 24	W. 21	W. 18	W. 14	W. 17	S. 10	S. 10
19	SW. 26	SW. 25	SW. 24	SW. 23	SW. 24	SW. 25	SW. 23	*W.* 29	W. 22	W. 11	SW. 8	SW. 10	SW. 9
20	W. 20	*NW.* 17	N. 13	NW. 18	NW. 12	NW. 15	*W.* 18	NW. 16	NW. 10	NW. 9	NW. 5	SW. 10	*SE.* 6
21	SW. 25	SW. 26	SW. 27	SW. 27	SW. 28	SW. 28	SW. 14	SW. 20	SW. 21	*SW.* 26	W. 22	W. 11	SW. 5
22	*W.* 38	SW. 38	W. 51	*SW.* 48	*W.* 48	SW. 47	SW. 39	SW. 34	SW. 32	S. 21	S. 24	SW. 24	*S.* 25
23	S. 27	*W.* 38	W. 38	W. 38	W. 31	W. 29	W. 24	W. 20	W. 20	W. 33	W. 30	*NW.* 31	W. 46
24	W. 37	W. 37	W. 34	*N.* 23	N. 16	N. 14	NW. 18	W. 20	W. 18	W. 18	*W.* 22	W. 43	W. 39
25	W. 41	W. 42	W. 42	W. 41	W. 40	W. 33	W. 27	NW. 32	NW. 27	NW. 22	N. 16	*NW.* 7	W. 14
26	NW. 22	N. 15	*N.* 18	NW. 19	N. 10	N. 16	NE. 16	NE. 24	NE. 25	NE. 25	NE. 24	NE. 28	NE. 22
27	N. 14	N. 19	N. 20	N. 27	N. 31	N. 30	N. 33	N. 42	N. 33	NE. 24	NE. 20	NE. 15	N. 22
28	W. 31	W. 32	W. 37	W. 39	W. 42	W. 36	W. 33	W. 31	NW. 30	NW. 27	NW. 25	N. 19	NW. 21
29	NE. 10	NE. 11	N. 8	N. 9	N. 8	N. 8	N. 7	N. 11	N. 13	N. 9	N. 8	N. 5	W. 5
30	W. 42	SW. 40	W. 56	W. 58	W. 50	W. 52	W. 52	W. 49	W. 48	W. 45	W. 50	W. 56	W. 56
31	W. 58	W. 66	W. 66	W. 60	W. 61	W. 59	W. 59	W. 59	*SW.* 49	SW. 50	SW. 44	SW. 44	SW. 32
Mean.	W. 32.8	SW. 32.7	W. 33.0	W. 33.1	W. 32.9	W. 32.4	W. 31.3	W. 31.0	W. 29.7	W. 27.5	W. 26.9	W. 27.2	SW. 25.5

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [October, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	17	13	12	12	10	10	9	*9*	9	8	*9*	10	10	*11*	10	10	*8*	8	7	*7*	6	6	6	6	9.3	11	7
2	6	5	6	4	4	4	4	*3*	3	*3*	7	7	8	*10*	12	12	*11*	11	11	*12*	12	13	14	15	8.2	13	2
3	14	11	14	16	16	14	14	*15*	15	14	*15*	15	17	*20*	22	21	*23*	22	21	*20*	18	17	17	16	16.9	25	10
4	16	17	15	16	16	16	15	*14*	15	16	*19*	21	24	*25*	24	24	*23*	24	23	*21*	20	19	18	17	19.1	26	14
5	17	17	14	12	9	6	3	*3*	4	3	*5*	6	6	*7*	8	9	*11*	11	10	*10*	11	11	12	14	9.1	11	2
6	14	14	16	17	17	18	16	*15*	17	18	*19*	20	20	*22*	25	27	*26*	26	24	*22*	21	21	20	20	19.8	26	10
7	20	20	20	20	21	20	20	*20*	21	21	*21*	23	27	*29*	30	31	*30*	29	28	*27*	27	26	25	25	24.2	32	19
8	28	28	26	26	27	28	29	*28*	31	30	*30*	33	34	*35*	36	37	*37*	38	37	*34*	32	30	29	29	31.4	40	24
9	30	29	30	29	29	27	29	*28*	27	*27*	*28*	29	29	*32*	33	33	*33*	33	32	*29*	28	27	27	26	29.3	34	26
10	25	26	26	26	26	28	28	*28*	27	25	*27*	30	32	*33*	34	33	*33*	31	31	*30*	28	26	25	23	28.4	35	24
11	22	21	21	18	15	10	8	*6*	4	1	*0*	2	3	*4*	7	15	*17*	21	22	*20*	22	23	22	23	13.6	22	0
12	23	24	24	27	28	26	29	*29*	31	32	*33*	34	34	*35*	34	35	*36*	35	33	*31*	31	31	30	32	30.7	36	15
13	31	29	28	29	26	28	27	*27*	27	27	*28*	28	27	*28*	28	28	*29*	29	29	*28*	28	27	28	28	28.0	30	24
14	27	27	28	28	27	28	28	*28*	28	27	*29*	29	31	*32*	34	35	*34*	34	34	*31*	30	30	30	30	30.0	35	26
15	31	30	30	30	29	29	28	*28*	29	30	*33*	35	35	*37*	37	39	*39*	38	35	*32*	31	30	29	29	32.2	39	27
16	28	27	26	25	24	24	23	*23*	23	*24*	*24*	25	25	*26*	27	27	*27*	28	27	*26*	25	24	24	23	25.2	28	22
17	22	21	21	20	20	20	19	*19*	19	21	*23*	25	26	*27*	29	29	*29*	28	26	*25*	22	23	23	22	23.3	30	18
18	22	22	21	21	21	20	20	*20*	23	22	*24*	26	28	*29*	28	27	*25*	25	25	*24*	24	24	23	23	23.6	30	19
19	23	23	22	21	21	21	21	*22*	23	25	*26*	28	29	*30*	30	31	*29*	29	28	*26*	26	25	25	24	25.3	32	20
20	24	25	25	25	25	25	25	*25*	25	26	*27*	28	31	*31*	30	31	*29*	27	28	*28*	27	26	26	26	26.9	32	24
21	25	25	25	24	24	24	24	*24*	24	24	*24*	26	28	*30*	31	34	*32*	32	31	*27*	27	27	26	26	26.8	34	22
22	24	24	23	23	22	21	21	*21*	21	21	*21*	23	23	*25*	25	25	*24*	23	21	*19*	19	18	18	19	21.8	26	19
23	18	16	14	13	12	12	12	*11*	11	*10*	*10*	10	11	*12*	12	16	*15*	14	14	*12*	12	12	11	11	12.5	15	9
24	11	9	9	9	8	9	10	*10*	15	18	*18*	17	19	*18*	20	22	*21*	20	17	*15*	14	13	13	12	14.5	23	8
25	11	12	11	10	10	10	10	*10*	10	10	*10*	9	12	*12*	13	9	*9*	9	8	*2*	2	1	1	1	8.4	12	2
26	0	0	0	—1	—1	0	4	*3*	9	11	*12*	12	14	*16*	18	18	*18*	17	18	*18*	17	17	18	19	10.9	19	—2
27	18	19	18	19	18	18	19	*20*	21	24	*24*	24	23	*23*	23	23	*26*	25	23	*20*	18	18	17	17	20.8	26	17
28	16	17	19	18	19	20	21	*21*	23	23	*23*	23	24	*25*	25	27	*26*	26	23	*22*	20	20	20	20	21.7	27	16
29	20	20	20	21	21	21	20	*21*	20	22	*25*	25	27	*28*	28	28	*28*	29	27	*24*	23	22	22	23	23.5	30	18
30	22	22	22	22	21	22	22	*21*	22	*22*	*24*	23	26	*27*	29	32	*30*	29	26	*24*	23	22	21	20	23.8	32	21
31	20	18	17	16	16	14	15	*16*	17	17	19	19	22	*24*	26	26	*25*	24	23	*22*	20	20	18	17	19.6	26	16
Mean..	20.2	19.7	19.5	19.2	18.7	18.5	18.5	18.5	19.2	19.4	20.4	21.5	22.7	24.0	24.8	25.6	25.3	25.0	23.9	22.2	21.4	20.9	20.6	20.5	21.3	27.0	15.5

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[October, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	W.	8	W.	8	W.	9	NW.	15	W.	17	*W.*	17	W.	22	W.	21	NW.	18	NW.	18	NW.	19	28	W.
2	NW.	23	NW.	14	NW.	8	NW.	10	NW.	23	NW.	21	*NE.*	14	*NE.*	14	*NE.*	16	NW.	26	NE.	22	31	W.
3	W.	39	W.	26	W.	25	SW.	20	SW.	22	W.	31	SW.	24	SW.	24	SW.	29	W.	52	W.	54	69	W.
4	SW.	25	SW.	34	SW.	26	SW.	29	SW.	20	SW.	19	SW.	20	SW.	18	SW.	17	SW.	23	SW.	27	90	W.
5	NW.	38	NW.	31	NW.	33	*NW.*	36	W.	33	W.	48	NW.	42	NW.	44	NW.	44	NW.	54	NW.	59	67	NW.
6	NW.	33	W.	30	*W.*	28	NW.	26	NW.	26	W.	41	W.	57	W.	67	W.	66	W.	65	W.	69	73	W.
7	SW.	17	*NW.*	19	S.	8	*W.*	8	*NE.*	14	W.	21	W.	24	NW.	35	W.	34	W.	60	NW.	46	72	W.
8	SE.	7	*W.*	8	W.	15	NW.	9	W	10	W.	11	SW.	14	SW.	23	SW.	24	SW.	23	SW.	27	64	NW.
9	SW.	33	SW.	29	SW.	36	*SW.*	40	W.	35	W.	41	W.	45	W.	45	W.	52	W.	53	W.	56	62	W.
10	S.	18	*S.*	22	S.	18	S.	23	SW.	28	SW.	34	SW.	36	SW.	33	SW.	30	SW.	24	SW.	18	68	W.
11	NE.	24	NE.	26	N.	28	NE.	22	NE.	26	NE.	24	*N.*	27	N.	31	NE.	24	NE.	27	NE.	25	47	NW.
12	N.	24	N.	24	NW.	32	NW.	23	NW.	20	NW.	26	NW.	29	*NW.*	35	W.	39	NW.	39	NW.	46	50	NW.
13	NW.	32	NW.	38	NW.	38	W.	39	W.	36	W.	37	W.	36	W.	29	NW.	28	NW.	31	NW.	33	49	NW.
14	NW.	7	NW.	6	W.	7	W.	7	*NW.*	9	W.	8	W.	14	W.	18	W.	17	NW.	14	NW.	18	34	N.
15	*S.*	9	SW.	12	*SW.*	13	S.	13	S.	16	*S.*	19	*SW.*	21	SW.	22	SW.	28	SW.	34	SW.	37	40	SW.
16	SW.	47	SW.	47	SW.	49	SW.	51	SW.	45	SW.	30	SW.	29	SW.	32	SW.	39	SW.	47	SW.	53	65	SW.
17	SW.	20	*S.*	21	S.	18	S.	20	S.	20	S.	21	SW.	28	SW.	28	SW.	36	SW.	38	SW.	35	51	SW.
18	S.	14	S.	16	S.	16	S.	19	SW.	23	*SW.*	22	SW.	26	SW.	17	SW.	19	SW.	22	SW.	22	47	W.
19	SW.	11	SW.	14	SW.	17	SW.	19	SW.	21	SW.	20	SW.	26	SW.	19	SW.	18	W.	18	W.	22	32	W.
20	E.	5	NE.	5	*E.*	4	SE.	6	*S.*	7	SW.	11	*W.*	3	S.	5	S.	8	SW.	16	SW.	21	25	SW.
21	SW.	8	SW.	17	S.	12	SW.	15	SW.	15	SW.	16	SW.	25	SW.	32	SW.	37	SW.	34	SW.	29	40	SW.
22	SW.	40	SW.	24	SW.	30	SW.	31	SW.	19	SW.	26	SW.	27	SW.	31	SW.	33	S.	30	*SW.*	28	56	SW.
23	W.	61	W.	65	W.	41	W.	49	W.	54	W.	55	W.	53	W.	49	W.	46	W.	42	W.	37	80	W.
24	W.	43	W.	46	W.	37	SW.	24	W.	28	W.	22	W.	24	W.	26	W.	33	W.	44	W.	42	52	W.
25	W.	16	W.	12	N.	20	N.	31	N.	22	N.	13	N.	21	N.	22	N.	21	N.	24	N.	18	46	W.
26	N.	20	N.	20	N.	25	N.	27	N.	26	NE.	27	NE.	30	NE.	28	NE.	25	NE.	21	NE.	19	38	NE.
27	N.	17	N.	11	*NW.*	6	W.	10	W.	16	W.	19	W.	23	W.	19	W.	18	W.	23	W.	27	49	N.
28	W.	26	*N.*	17	N.	10	N.	17	N.	15	N.	18	N.	24	N.	16	N.	14	N.	13	N.	13	48	W.
29	*W.*	3	*W.*	6	*NW.*	5	W.	6	W.	12	SW.	13	SW.	19	SW.	31	SW.	35	SW.	35	SW.	43	50	SW.
30	SW.	42	SW.	26	SW.	19	SW.	26	SW.	26	SW.	35	W.	40	SW.	52	SW.	49	W.	47	W.	54	66	W.
31	SW.	27	S.	23	SW.	22	S.	26	SW.	31	SW.	34	SW.	28	SW.	26	W.	44	W.	54	W.	69	71	W.
Mean..	SW.	23.8	W. SW.	22.8	SW.	21.1	SW.	22.5	W.	23.1	W. SW.	25.0	W. SW.	27.1	SW.	28.8	SW.	30.4	W. SW.	33.9	SW.	35.1		

PIKES PEAK, COLO.

PRESSURE, 17 INCHES+.

NOTE.—All eye readings are printed in *italics*.

November, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.60	.58	.57	.58	.59	.57	.57	.56	.60	.60	.60	.61	.62	.65	.67	.67	.66	.66	.67	.69	.69	.68	.68	.66	.62	.69	.56
2	.68	.64	.64	.62	.61	.61	.59	.68	.69	.71	.71	.67	.68	.70	.70	.69	.69	.68	.69	.69	.69	.68	.68	.66	.67	.71	.59
3	.65	.65	.62	.61	.58	.57	.57	.57	.57	.62	.60	.60	.63	.64	.65	.66	.66	.66	.67	.68	.69	.70	.70	.71	.64	.71	.57
4	.71	.71	.71	.71	.72	.72	.72	.72	.71	.73	.73	.75	.76	.76	.76	.75	.76	.75	.76	.78	.79	.80	.80	.80	.75	.80	.71
5	.80	.81	.81	.81	.81	.82	.82	.82	.81	.81	.82	.82	.82	.83	.82	.82	.81	.80	.79	.80	.80	.80	.80	.79	.81	.83	.79
6	.79	.78	.77	.75	.73	.68	.69	.69	.70	.70	.74	.75	.75	.70	.70	.70	.70	.70	.68	.66	.66	.66	.66	.66	.71	.79	.66
7	.65	.64	.64	.64	.65	.65	.66	.67	.71	.78	.72	.73	.76	.75	.78	.78	.78	.79	.80	.80	.82	.82	.82	.84	.74	.84	.64
8	.87	.87	.88	.88	.88	.88	.88	.89	.92	.93	.95	.95	.95	.95	.95	.95	.95	.94	.94	.94	.94	.95	.95	.94	.92	.95	.87
9	.93	.92	.91	.90	.87	.88	.87	.87	.87	.87	.87	.87	.86	.84	.83	.83	.83	.80	.79	.76	.74	.74	.73	.72	.84	.93	.72
10	.70	.67	.65	.63	.63	.61	.61	.60	.60	.60	.60	.61	.61	.59	.57	.57	.57	.58	.59	.58	.60	.61	.62	.62	.61	.70	.57
11	.61	.60	.60	.59	.59	.59	.60	.60	.62	.66	.68	.68	.67	.66	.66	.67	.68	.68	.68	.68	.72	.72	.73	.73	.65	.73	.59
12	.73	.73	.73	.73	.74	.73	.74	.76	.76	.79	.81	.81	.82	.82	.83	.82	.84	.83	.83	.84	.83	.83	.83	.83	.79	.84	.73
13	.83	.82	.81	.81	.80	.80	.80	.79	.79	.83	.85	.86	.80	.79	.78	.78	.78	.78	.78	.79	.79	.79	.78	.77	.80	.86	.77
14	.77	.77	.77	.76	.76	.76	.76	.76	.76	.77	.79	.79	.80	.78	.77	.78	.79	.80	.80	.80	.80	.80	.80	.80	.78	.80	.76
15	.83	.83	.83	.83	.82	.80	.80	.79	.79	.82	.83	.84	.83	.82	.81	.79	.78	.76	.74	.74	.74	.74	.71	.70	.79	.84	.70
16	.71	.70	.67	.65	.63	.61	.57	.55	.54	.52	.51	.49	.48	.45	.43	.41	.40	.43	.44	.45	.46	.46	.47	.47	.52	.71	.40
17	.46	.46	.45	.45	.44	.43	.43	.43	.42	.44	.46	.47	.47	.47	.46	.47	.50	.50	.50	.50	.53	.54	.54	.54	.47	.54	.42
18	.54	.53	.54	.54	.53	.53	.53	.53	.52	.55	.60	.61	.62	.62	.63	.64	.64	.64	.65	.65	.68	.70	.71	.73	.60	.73	.52
19	.74	.74	.74	.74	.74	.74	.74	.73	.76	.77	.78	.79	.79	.78	.75	.74	.75	.74	.71	.69	.68	.68	.68	.68	.74	.79	.68
20	.68	.67	.65	.63	.60	.58	.55	.54	.53	.55	.55	.55	.53	.52	.52	.51	.50	.47	.46	.44	.42	.40	.37	.38	.52	.68	.37
21	.38	.36	.36	.35	.35	.34	.34	.34	.34	.37	.40	.40	.41	.41	.42	.41	.43	.44	.43	.40	.40	.38	.36	.35	.38	.44	.34
22	.34	.33	.33	.33	.35	.33	.34	.34	.34	.32	.34	.36	.36	.36	.40	.42	.42	.41	.40	.42	.42	.42	.42	.40	.37	.42	.32
23	.36	.35	.35	.37	.39	.39	.38	.36	.39	.42	.46	.47	.48	.48	.49	.48	.48	.49	.48	.50	.52	.52	.52	.52	.44	.52	.35
24	.52	.52	.52	.52	.52	.52	.51	.52	.55	.56	.55	.56	.59	.62	.62	.63	.63	.61	.60	.59	.60	.60	.58	.55	.57	.63	.51
25	.53	.49	.42	.39	.38	.37	.37	.36	.31	.31	.37	.41	.42	.42	.42	.41	.40	.40	.41	.42	.41	.42	.45	.46	.41	.53	.31
26	.46	.46	.46	.46	.46	.46	.46	.46	.50	.51	.53	.55	.51	.45	.44	.45	.45	.45	.45	.44	.48	.50	.49	.48	.47	.55	.44
27	.47	.48	.46	.45	.46	.47	.47	.46	.48	.55	.56	.60	.57	.56	.55	.54	.56	.58	.60	.62	.63	.63	.60	.59	.54	.63	.45
28	.59	.57	.53	.54	.53	.52	.52	.51	.52	.55	.57	.57	.57	.54	.53	.53	.51	.50	.51	.50	.49	.50	.47	.46	.53	.59	.46
29	.47	.47	.46	.47	.48	.45	.49	.52	.52	.58	.62	.59	.58	.57	.59	.59	.60	.61	.63	.60	.58	.56	.57	.56	.55	.63	.45
30	.52	.48	.48	.49	.50	.50	.52	.53	.54	.56	.60	.59	.57	.56	.57	.62	.62	.63	.66	.66	.68	.66	.66	.60	.60	.57	.68	.48
Mean	.63	.62	.61	.61	.60	.60	.60	.60	.60	.63	.64	.64	.64	.64	.64	.64	.64	.64	.64	.64	.64	.64	.64	.63	.63	.70	.56

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

November, 1893.]

Day.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p. m.	
1	N.	69	W.	68	W.	68	W.	68	W.	59	W.	55	W.	68	W.	66	W.	68	W.	69	W.	66	W.	65	W.	63
2	W.	47	*W.*	31	SW.	25	S.	24	S.	28	S.	29	SW.	36	SW.	30	SW.	28	SW.	20	S.	15	S.	17	S.	15
3	*SW.*	28	SW.	18	SW.	18	SW.	23	W.	29	W.	31	W.	34	W.	29	W.	34	NW.	27	NE.	12	NE.	11	N.	6
4	N.	23	N.	22	N.	19	N.	22	N.	27	N.	25	N.	22	N.	18	N.	18	NE	14	N.	10	NE.	5	E.	5
5	NW.	7	*NE.*	5	NE.	5	NE.	3	*NW.*	5	NW.	4	NW.	2	NW.	4	NW.	5	W.	7	W.	9	W.	12	SW.	15
6	W.	25	W.	26	W.	29	SW.	37	W.	44	W.	54	W.	53	W.	51	W.	44	W.	36	*SW.*	28	S.	12	S.	13
7	W.	30	NW.	27	NW.	29	N.	26	N.	24	N.	20	NE.	26	NE.	21	NE.	19	NE.	18	NE.	18	NE.	14	N.	12
8	NE.	10	NE.	9	NE.	12	NE.	10	NE.	12	N.	17	NE.	19	NE.	15	NE.	16	NE.	18	NE.	20	NE.	22	N.	17
9	SW.	22	W.	27	W.	33	W.	30	W.	31	W.	27	W.	26	W.	28	W.	25	W.	16	W.	12	NW.	8	NW.	3
10	SW.	33	S.	36	*S.*	42	W.	28	W.	18	W.	18	W.	16	W.	13	W.	5	*SE.*	5	E.	1	S.	4	SE.	6
11	N.	18	N.	19	N.	16	N.	14	N.	13	N.	10	NW.	10	*N.*	8	*NW.*	7	NW.	6	NW.	4	*NE.*	5		
12	NE.	18	NE.	16	NE.	21	N.	22	N.	19	N.	25	NE.	20	*NE.*	19	N.	25	NE.	23	NE.	24	NE.	23	NE.	24
13	N.	15	N.	20	N.	27	N.	22	N.	24	*N.*	21	NE.	17	NE.	14	NE.	15	NE.	18	NE.	14	NE.	13	N.	13
14	NE.	29	NE.	29	NE.	29	NE.	31	NE.	27	NE.	20	NE.	20	NE.	22	NE.	26	NE.	31	NE.	26	NE.	21	NE.	21
15	NE.	20	NE.	20	NE.	19	NE.	21	NE.	21	NE.	21	N.	19	*N.*	22	NE.	19	NE.	19	NE.	17	NE.	14	*NE.*	11
16	NW.	26	NW.	31	NW.	34	NW.	35	NW.	38	NW.	27	NW.	38	NW.	45	NW.	50	NW.	51	NW.	50	NW.	45	W.	54
17	*SW.*	17	*S.*	18	SW.	23	S.	23	S.	21	S.	22	S.	19	*SW.*	14	SW.	13	SW.	20	SW.	19	SW.	17	SW.	20
18	SW.	11	SW.	12	SW.	11	SW.	9	SW.	15	SW.	20	W.	15	W.	18	W.	18	W.	18	W.	14	W.	13	SW.	15
19	*NW.*	12	NW.	2	*NE.*	2	*SE.*	9	*SW.*	11	W.	15	W.	16	*W.*	24	SW.	22	SW.	15	*S.*	12	S.	18	S.	16
20	W.	23	W.	22	W.	20	W.	16	W.	8	W.	4	*W.*	3	NW.	6	NW.	9	*NW.*	8	N.	8	*N.*	9	N.	14
21	W.	68	W.	72	W.	73	W.	70	W.	72	W.	68	W.	69	W.	66	W.	56	W.	45	W.	38	W.	37	*W.*	34
22	*S.*	22	*SW.*	20	SW.	17	*W.*	15	W.	16	*N.*	11	NW.	8	NW.	7	W.	12	W.	25	W.	25	W.	13	W.	25
23	W.	46	W.	52	W.	51	W.	47	W.	20	NW.	22	NW.	36	NW.	48	NW.	52	NW.	68	NW.	74	NW.	70	NW.	68
24	SW.	36	SW.	33	SW.	31	SW.	26	W.	24	*SW.*	22	SW.	19	W.	22	W.	18	W.	13	*NW.*	16	W.	20	W.	19
25	SW.	38	SW.	46	SW.	59	SW.	72	SW.	71	SW.	60	SW.	55	SW.	45	SW.	36	W.	44	W.	28	*SW.*	12	N.	8
26	SW.	11	SW.	10	SW.	8	SW.	7	SW.	8	SW.	8	*NW.*	6	NW.	7	NW.	8	*SW.*	14	*N.*	21	NW.	29	SW.	49
27	NW.	55	SW.	42	SW.	42	SW.	45	SW.	46	SW.	37	SW.	30	N.	30	N.	27	N.	20	N.	17	N.	14	NW	14
28	SW.	31	SW.	28	SW.	29	SW.	34	SW.	32	SW.	31	SW.	30	SW.	26	SW.	23	SW.	16	SW.	16	SW.	15	SW.	13
29	NW.	13	NW.	10	NW.	10	NW.	9	NW.	9	NW.	13	NW.	14	NW.	13	NW.	14	NW.	12	*NW.*	14	SW.	17	SW.	19
30	SW.	86	SW.	94	SW.	96	SW.	94	SW.	85	SW.	67	SW.	61	SW.	56	SW.	51	SW.	62	SW.	74	SW.	76	SW.	76
Mean	SW.	29.6	SW.	28.8	SW.	29.9	SW.	29.7	W.	28.3	W.	27.1	W.	26.9	W.	26.2	W.	26.1	W.	25.3	W.	23.4	NE.	21.7	N. SW.	22.4

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [November, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min
1	17	17	16	16	16	15	14	*14*	17	17	*17*	17	19	*21*	24	25	*25*	24	22	*20*	19	17	16	15	18.3	26	14
2	14	14	13	13	13	12	12	*10*	10	10	*12*	13	15	*17*	17	18	*17*	16	15	*14*	14	13	13	12	13.6	18	8
3	11	11	10	10	8	8	7	*7*	7	9	*8*	11	11	*12*	13	14	*15*	15	11	*10*	9	10	15	15	10.7	14	5
4	17	16	16	16	15	17	19	*18*	17	17	*18*	20	20	*22*	23	23	*23*	22	17	*16*	16	16	14	16	18.1	23	10
5	16	16	15	17	18	19	19	*19*	18	19	*19*	21	21	*22*	23	24	*24*	24	22	*19*	18	18	18	18	19.5	25	14
6	18	20	18	17	18	18	18	*18*	19	*18*	*17*	19	20	*22*	22	23	*21*	19	15	*15*	13	13	11	12	17.7	24	13
7	11	11	11	10	11	10	10	*10*	10	11	*11*	11	12	*13*	14	13	*13*	14	12	*12*	11	10	11	10	11.3	13	9
8	10	10	9	9	9	8	12	*14*	16	17	*20*	23	24	*25*	26	26	*25*	26	25	*23*	23	22	22	22	18.6	26	7
9	23	21	21	20	21	21	21	*20*	20	20	*20*	21	23	*24*	26	27	*27*	25	23	*20*	19	18	19	18	21.6	28	18
10	19	17	16	16	16	15	15	*14*	14	15	*15*	14	12	*12*	11	11	*11*	10	9	*6*	3	0	0	−2	11.2	16	6
11	−3	−2	−3	−4	−5	−5	−6	*−6*	−5	−3	*−2*	1	0	*−3*	−4	−3	*−3*	−3	−3	*−2*	−2	−1	1	2	−2.7	2	−8
12	3	3	3	5	6	6	8	*8*	8	9	*9*	9	11	*10*	10	10	*13*	14	14	*14*	13	12	11	10	9.1	15	2
13	10	9	10	11	11	13	13	*12*	11	11	*12*	11	9	*10*	10	9	*8*	9	9	*9*	8	8	8	8	10.0	12	9
14	8	8	7	7	6	7	7	*6*	4	4	*8*	8	9	*9*	10	10	*9*	9	8	*8*	9	8	7	8	7.7	10	5
15	10	13	14	14	14	12	13	*14*	14	16	*17*	17	18	*20*	20	19	*19*	18	15	*16*	17	16	16	16	15.8	21	7
16	18	17	17	17	17	17	17	*16*	17	17	*16*	16	17	*18*	18	18	*18*	17	15	*14*	13	12	12	10	16.0	20	14
17	9	7	6	5	4	3	2	*1*	0	2	*2*	4	4	*5*	5	5	*6*	5	5	*5*	5	5	6	6	4.5	6	0
18	6	6	6	6	6	6	6	*6*	6	6	*7*	7	8	*9*	9	8	*8*	8	7	*6*	6	4	4	6	6.5	10	5
19	10	10	9	8	7	8	7	*9*	9	9	*10*	11	12	*12*	13	13	*13*	12	11	*9*	9	9	9	9	9.9	13	4
20	9	9	8	8	10	14	11	*11*	11	12	*13*	12	12	*12*	12	14	*15*	14	13	*13*	12	10	7	5	11.0	18	7
21	5	4	3	2	2	2	2	*1*	1	0	*0*	1	3	*3*	4	5	*6*	6	7	*6*	4	2	1	−1	2.9	8	0
22	−3	−3	−2	−1	−2	−3	−4	*−5*	−7	−10	*−12*	−12	−12	*−12*	−11	−10	*−9*	−9	−9	*−10*	−10	−10	−10	−11	−7.8	−5	−14
23	−11	−11	−12	−12	−12	−11	−10	*−10*	−7	−4	*−1*	2	2	*4*	7	9	*9*	10	10	*10*	9	9	10	10	0.0	10	−12
24	10	10	10	10	10	10	10	*9*	8	7	7	8	9	*10*	11	13	*13*	12	11	*11*	10	11	12	11	10.1	13	8
25	11	10	10	10	10	10	10	*10*	10	10	*9*	9	10	*10*	12	12	*10*	10	10	*10*	8	9	8	8	9.8	11	9
26	8	7	6	5	3	3	3	*3*	0	1	*4*	6	7	*7*	9	9	*9*	9	8	*8*	8	8	8	8	6.1	10	0
27	9	9	9	11	12	13	13	*13*	12	11	*10*	10	10	*11*	12	12	*12*	12	11	*11*	11	12	12	13	11.3	13	7
28	13	13	13	14	14	14	13	*13*	12	12	*13*	14	14	*14*	14	13	*12*	11	11	*10*	9	9	8	8	12.1	14	11
29	8	8	8	8	8	8	8	*8*	9	9	*10*	10	13	*13*	13	12	*12*	12	13	*14*	16	17	17	18	11.3	14	8
30	19	19	19	18	15	14	14	*13*	12	13	*13*	13	13	*13*	13	12	*10*	10	10	*11*	11	10	10	11	13.2	17	11
Mean	10.2	10.0	9.5	9.5	9.4	9.4	9.5	9.1	9.1	9.5	10.1	10.9	11.5	12.2	12.9	13.1	13.0	12.7	11.6	10.9	10.4	9.9	9.9	9.7	10.6	14.8	6.0

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[November, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	W.	60	W.	37	*SW.*	24	SW.	36	SW.	31	S.	22	*S.*	23	SW.	28	SW.	20	W.	24	W.	39	77	W.
2	S.	16	S.	18	SW.	22	SW.	19	SW.	17	S.	12	SW.	16	*SW.*	15	SW.	16	SW.	17	*W.*	20	50	W.
3	N.	8	N.	7	N.	6	N.	4	N.	9	*W.*	9	*N.*	11	W.	24	NW.	23	N.	16	NE.	18	41	NW.
4	E.	5	SE.	5	*NW.*	4	NW.	4	NW.	7	W.	13	W.	7	*W.*	5	NW.	8	NW.	11	NW.	11	35	NW.
5	W.	20	*SW.*	19	SW.	20	SW.	25	SW.	32	SW.	30	SW.	29	SW.	25	SW.	28	SW.	30	W.	29	34	SW.
6	S.	17	W.	27	SW.	21	S.	16	*S.*	17	SW.	26	*SW.*	29	W.	32	W.	36	W.	30	W.	30	66	W.
7	N.	9	N.	7	N.	6	N.	5	NE.	5	E.	6	NE.	8	NE.	7	NE.	8	NE.	6	NE.	8	32	NW.
8	N.	6	NE.	4	*NE.*	6	W.	10	W.	14	W.	18	W.	17	W.	14	W.	15	W.	12	*W.*	18	26	NE.
9	*W.*	4	E.	3	S.	11	SW.	13	SW.	18	SW.	19	SW.	25	SW.	32	S.	27	S.	32	S.	31	36	SW.
10	*N.*	6	*E.*	9	NE.	7	N.	12	*NE.*	14	N.	18	*N.*	18	NE.	23	*NE.*	22	N.	19	N.	18	43	W.
11	N.	6	*N.*	13	NE.	17	NE.	19	NE.	19	NE.	22	NE.	22	NE.	17	NE.	17	NE.	21	NE.	20	26	NE.
12	NE.	21	NE.	23	N.	24	N.	18	N.	19	N.	18	*N.*	16	N.	19	*NE.*	18	N.	12	N.	13	30	N.
13	*NW.*	12	*N.*	11	N.	9	*NW.*	12	*N.*	21	N.	18	N.	21	N.	23	N.	16	*NE.*	24	NE.	30	36	NE.
14	*N.*	20	N.	31	N.	27	*NE.*	23	NE.	22	NE.	24	NE.	29	NE.	31	NE.	27	NE.	26	NE.	28	38	N.
15	*N.*	8	NW.	9	*W.*	9	W.	19	W.	26	W.	27	W.	30	W.	26	W.	35	W.	36	W.	29	37	W.
16	W.	60	W.	66	W.	58	W.	54	W.	37	W.	28	W.	24	*NW.*	17	W.	14	*NE.*	12	*E.*	9	77	W.
17	SW.	26	SW.	25	SW.	20	SW.	17	SW.	20	*S.*	17	S.	15	S.	15	S.	11	*SW.*	12	*S.*	12	32	SW.
18	SW.	10	*SW.*	9	*W.*	9	*SW.*	16	W.	17	W.	22	W.	19	W.	18	W.	14	W.	15	W.	19	25	W.
19	S.	19	S.	19	*SW.*	21	*S.*	25	SW.	26	SW.	27	SW.	31	SW.	28	W.	24	W.	20	W.	21	34	SW.
20	N.	15	*NE.*	20	*N.*	20	N.	29	N.	31	NW.	55	NW.	49	NW.	65	NW.	67	NW.	66	NW.	66	76	NW.
21	*SW.*	30	W.	24	*W.*	26	*SW.*	20	S.	19	SW.	25	*S.*	29	*SW.*	30	SW.	29	SW.	22	S.	21	84	W.
22	W.	19	W.	18	W.	13	W.	13	W.	17	SW.	27	SW.	23	SW.	23	SW.	24	*SW.*	29	W.	46	52	W.
23	NW.	66	W.	64	W.	66	W.	61	W.	66	W.	67	*W.*	63	NW.	53	NW.	39	*W.*	39	*NW.*	39	84	NW.
24	*SW.*	14	SW.	12	SW.	32	SW.	25	SW.	33	SW.	33	SW.	39	SW.	39	SW.	44	SW.	41	SW.	39	48	SW.
25	*NW.*	11	*SW.*	13	SW.	20	SW.	18	SW.	14	*S.*	7	SW.	7	SW.	24	SW.	25	SW.	16	*W.*	9	84	SW.
26	SW.	67	SW.	60	*SW.*	66	SW.	70	SW.	62	*NW.*	64	NW.	67	NW.	66	NW.	70	NW.	67	NW.	62	72	SW.
27	NW.	15	NW.	12	SW.	23	SW.	21	SW.	25	SW.	20	SW.	20	SW.	24	SW.	22	SW.	28	SW.	33	60	NW.
28	SW.	14	SW.	18	SW.	11	SW.	12	SW.	18	SW.	17	SW.	18	SW.	18	W.	15	SW.	16	*SW.*	14	34	SW.
29	SW.	26	SW.	27	SW.	29	SW.	33	SW.	31	SW.	36	SW.	64	SW.	68	SW.	80	SW.	82	SW.	79	90	SW.
30	SW.	74	SW.	57	SW.	33	SW.	43	SW.	57	SW.	54	SW.	58	SW.	47	SW.	55	SW.	65	SW.	69	104	SW.
Mean	N.	22.8	SW.	22.1	SW.	22.0	SW.	23.1	SW.	24.7	SW.	26.0	SW.	27.6	SW.	28.6	SW.	28.3	SW.	28.2	W.	29.3	.....	.....

PIKES PEAK, COLO.

PRESSURE, 17 INCHES+.

NOTE.—All eye readings are printed in *italics*.

December, 1893.] [Seventy-fifth

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.65	.65	.65	.62	.59	.58	.58	.59	.59	.63	.65	.67	.69	.70	.70	.70	.70	.65	.61	.60	.62	.61	.59	.58	.63	.70	.58
2	.51	.52	.52	.50	.48	.42	.40	.35	.34	.35	.40	.45	.45	.46	.49	.50	.51	.53	.55	.57	.58	.60	.60	.60	.49	.60	.34
3	.62	.62	.62	.63	.64	.64	.65	.65	.67	.70	.70	.70	.70	.71	.72	.72	.73	.72	.72	.72	.72	.72	.72	.73	.69	.73	.62
4	.74	.73	.70	.67	.68	.67	.65	.71	.71	.71	.69	.71	.70	.65	.69	.69	.66	.67	.68	.66	.64	.64	.64	.62	.68	.74	.62
5	.63	.62	.60	.58	.57	.55	.53	.54	.55	.55	.56	.57	.57	.57	.57	.57	.58	.59	.60	.62	.64	.65	.65	.66	.59	.66	.53
6	.67	.65	.65	.65	.67	.66	.68	.69	.69	.69	.70	.71	.72	.72	.72	.72	.71	.72	.74	.75	.75	.77	.77	.75	.71	.77	.65
7	.70	.64	.62	.60	.56	.55	.52	.51	.55	.55	.56	.58	.58	.61	.61	.60	.58	.58	.58	.57	.58	.58	.55	.53	.58	.70	.51
8	.49	.49	.46	.46	.45	.44	.43	.46	.48	.50	.50	.51	.51	.49	.49	.49	.49	.50	.50	.51	.51	.52	.52	.52	.49	.52	.43
9	.51	.51	.51	.51	.48	.47	.48	.49	.50	.51	.53	.54	.54	.54	.52	.53	.54	.54	.52	.52	.48	.49	.50	.50	.51	.54	.47
10	.52	.53	.49	.51	.49	.49	.48	.52	.54	.53	.55	.55	.55	.50	.48	.48	.48	.48	.47	.45	.46	.47	.46	.46	.50	.55	.45
11	.46	.45	.43	.43	.41	.42	.44	.46	.49	.50	.54	.55	.58	.58	.58	.59	.63	.64	.65	.65	.67	.68	.69	.70	.55	.70	.41
12	.69	.68	.68	.67	.67	.67	.67	.68	.70	.72	.73	.76	.76	.76	.76	.77	.75	.78	.78	.78	.79	.80	.81	.81	.74	.81	.67
13	.81	.79	.79	.78	.78	.78	.76	.72	.68	.68	.69	.69	.68	.66	.65	.64	.65	.65	.66	.67	.67	.69	.68	.66	.70	.81	.64
14	.66	.64	.62	.59	.59	.57	.56	.58	.59	.56	.54	.54	.52	.48	.48	.45	.44	.43	.42	.41	.40	.39	.37	.36	.51	.66	.36
15	.35	.33	.32	.33	.35	.36	.37	.40	.43	.46	.49	.52	.53	.51	.50	.51	.52	.52	.55	.58	.64	.70	.69	.70	.49	.70	.32
16	.71	.73	.73	.74	.76	.75	.76	.78	.77	.80	.79	.85	.80	.90	.90	.90	.92	.93	.94	.94	.94	.94	.95	.95	.84	.95	.71
17	.94	.93	.92	.85	.87	.87	.88	.90	.92	.91	.91	.91	.90	.88	.88	.89	.89	.89	.88	.88	.88	.88	.87	.86	.89	.94	.85
18	.85	.84	.83	.83	.83	.83	.83	.83	.84	.84	.85	.86	.85	.83	.82	.82	.82	.82	.81	.81	.82	.81	.82	.82	.83	.86	.81
19	.82	.82	.81	.80	.80	.78	.78	.78	.78	.78	.78	.78	.78	.76	.73	.73	.73	.73	.72	.73	.73	.73	.74	.74	.76	.82	.72
20	.74	.75	.75	.75	.75	.76	.76	.77	.79	.79	.80	.80	.80	.78	.77	.75	.75	.76	.75	.76	.75	.75	.74	.73	.76	.80	.73
21	.71	.72	.70	.69	.69	.70	.70	.71	.72	.71	.72	.74	.74	.77	.70	.69	.66	.65	.66	.65	.66	.66	.67	.67	.69	.74	.65
22	.67	.66	.66	.62	.62	.61	.61	.63	.65	.68	.73	.73	.72	.71	.70	.69	.68	.68	.68	.67	.66	.64	.63	.61	.66	.73	.61
23	.60	.58	.55	.52	.50	.48	.45	.45	.49	.51	.50	.53	.53	.53	.54	.54	.54	.54	.53	.53	.53	.52	.51	.49	.52	.60	.45
24	.48	.47	.45	.44	.42	.40	.37	.36	.35	.34	.36	.36	.36	.32	.31	.32	.36	.37	.39	.40	.42	.47	.48	.47	.40	.48	.31
25	.46	.46	.48	.49	.51	.52	.53	.59	.59	.58	.58	.62	.65	.67	.70	.68	.67	.69	.69	.70	.70	.72	.70	.70	.61	.72	.46
26	.71	.69	.69	.69	.70	.71	.72	.79	.80	.84	.87	.88	.87	.84	.82	.82	.81	.80	.80	.79	.78	.78	.76	.75	.78	.88	.69
27	.73	.70	.68	.64	.62	.63	.60	.58	.58	.57	.57	.57	.56	.55	.52	.53	.55	.56	.55	.56	.54	.57	.55	.48	.58	.73	.48
28	.44	.40	.40	.39	.38	.36	.34	.33	.35	.34	.33	.35	.32	.32	.31	.32	.32	.32	.32	.30	.32	.32	.32	.34	.34	.44	.30
29	.34	.33	.31	.31	.32	.30	.28	.29	.29	.30	.33	.32	.32	.30	.28	.27	.27	.29	.30	.30	.31	.30	.32	.32	.30	.34	.27
30	.32	.33	.33	.33	.33	.31	.32	.33	.35	.35	.39	.39	.40	.43	.43	.45	.48	.52	.54	.57	.59	.60	.60	.62	.43	.62	.31
31	.62	.62	.62	.63	.64	.64	.64	.64	.65	.67	.72	.76	.75	.73	.73	.74	.75	.75	.74	.72	.72	.71	.72	.71	.69	.76	.62
Mean	.62	.61	.60	.59	.58	.58	.57	.58	.60	.60	.61	.63	.63	.62	.62	.62	.62	.62	.62	.62	.63	.64	.63	.63	.61	.70	.54

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

December, 1893.]

Day.	0–1h a.m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p.m.	
1	SW.	72	SW.	64	SW.	71	SW.	72	SW.	92	SW.	76	NE.	61	NE.	68	NE.	59	NE.	42	SE.	37	SE.	37	SW.	34
2	SW.	41	SW.	37	SW.	24	SW.	16	SW.	14	SW.	16	N.	19	N.	23	N.	17	N.	17	N.	16	N.	13	NE.	11
3	NE.	9	*N.*	7	*E.*	7	*NE.*	9	*N.*	6	*E.*	5	NE.	5	N.	6	N.	18	NE.	30	NE.	35	NE.	38	*N.*	38
4	*NE.*	30	N.	34	N.	37	N.	59	N.	46	N.	45	N.	61	N.	48	N.	35	N.	52	NW.	51	NW.	58	N.	53
5	W.	16	W.	11	W.	9	W.	8	NW.	6	N.	6	N.	11	N.	9	NE.	7	NE.	6	NE.	13	NE.	18	NE.	15
6	N.	23	*NE.*	30	N.	33	*N.*	34	*NE.*	32	NE.	35	N.	38	N.	35	NE.	36	NE.	36	*N.*	39	*NE.*	42	NE.	37
7	N.	56	NW.	67	NW.	60	*N.*	55	*NW.*	66	W.	70	W.	67	W.	54	*W.*	50	NW.	48	NW.	44	NW.	38	NW.	26
8	NW.	31	NW.	30	NW.	31	NW.	29	NW.	30	NW.	26	NW.	26	N.	22	N.	31	N.	25	N.	24	N.	23	N.	19
9	NW.	7	NW.	10	NW.	7	N.	6	N.	10	N.	13	N.	10	N.	11	N.	10	N.	12	N.	12	N.	19	N.	16
10	NW.	36	NW.	34	NW.	36	NW.	36	NW.	37	NW.	37	NW.	39	NW.	39	NW.	38	NW.	43	NW.	51	NW.	49	*NW.*	52
11	W.	80	W.	79	W.	80	W.	77	W.	78	W.	68	W.	62	*N.*	61	*NW.*	61	NW.	60	NW.	54	NW.	53	NW.	52
12	W.	46	W.	47	W.	43	W.	51	W.	58	W.	59	W.	46	W.	46	W.	60	W.	67	W.	64	W.	58	W.	56
13	W.	49	W.	56	W.	52	W.	51	W.	42	W.	36	W.	41	W.	60	W.	77	W.	80	W.	76	W.	77	W.	73
14	W.	58	W.	59	W.	63	W.	67	W.	67	W.	72	W.	67	W.	59	W.	46	W.	44	SW.	53	SW.	55	SW.	52
15	*W.*	17	NW.	19	NW.	20	NW.	18	NW.	19	W.	19	W.	20	NW.	16	NW.	24	NW.	27	N.	28	NW.	27	NW.	33
16	NE.	42	NE.	41	NE.	40	NE.	35	*N.*	36	N.	42	N.	52	N.	45	N.	59	N.	60	N.	58	W.	51	*NE.*	22
17	*N.*	22	*NE.*	25	N.	29	N.	46	N.	45	N.	38	*N.*	37	*NE.*	33	NE.	26	NE.	27	NE.	31	NE.	35	NE.	33
18	NE.	31	NE.	32	NE.	30	NE.	21	NE.	19	NE.	16	NE.	15	N.	10	N.	8	N.	4	N.	6	*N.*	8	NE.	14
19	W.	10	W.	14	W.	17	W.	20	W.	20	W.	24	W.	27	W.	22	W.	19	W.	6	W.	3	W.	1	W.	6
20	W.	28	W.	26	W.	26	W.	26	W.	25	W.	22	W.	24	W.	19	W.	15	W.	12	W.	11	W.	15	W.	21
21	SW.	55	SW.	54	SW.	54	SW.	57	SW.	57	SW.	45	SW.	38	SW.	38	SW.	40	SW.	40	W.	39	W.	38	W.	37
22	W.	38	W.	39	W.	31	W.	45	W.	43	NW.	37	W.	43	*W.*	26	NW.	29	NW.	26	NW.	17	*NW.*	14	W.	15
23	SW.	49	SW.	51	SW.	54	SW.	63	SW.	63	SW.	67	SW.	67	SW.	72	SW.	54	SW.	54	SW.	66	SW	70	SW.	60
24	SE.	15	S.	14	SW.	15	SW.	13	W.	10	SW.	10	S.	9	S.	6	SW.	6	SW.	7	SW.	13	SW.	21	SW.	38
25	SW.	29	SW.	30	SW.	25	SW.	19	SW.	16	SW.	13	SW.	12	SW.	12	SW.	14	SW.	14	SW.	17	SW.	15	S.	10
26	S.	37	S.	42	S.	50	SW.	55	SW.	56	S.	55	S.	51	S.	42	SW.	32	S.	23	S.	20	SW.	24	SW.	23
27	SW.	26	SW.	21	W.	20	W.	18	W.	18	W.	15	W.	13	W.	17	W.	23	W.	20	S	18	S.	14	S.	15
28	S.	16	S.	16	SW.	15	W.	12	W.	7	W.	8	W.	8	*N.*	6	NW.	9	W.	11	W.	40	W.	44	W.	49
29	*NW.*	31	N.	26	N.	28	N.	18	N.	14	W.	15	W.	23	*N.*	21	N.	28	NW.	32	*NW.*	32	N.	27	N.	13
30	N.	12	N.	16	N.	22	NW.	26	NW.	25	NW.	33	*NW.*	25	N.	18	NE.	27	NE.	32	NE.	34	NE.	34	NE.	36
31	NE.	18	NE.	22	N.	20	N.	19	N.	21	NE.	24	N.	18	N.	21	N.	22	N.	22	N.	19	N.	17	NE.	11
Mean	W.	33.2	W.	34.0	W.	33.8	W.	34.9	W.	34.8	W.	33.6	W.	33.4	N.	31.1	N.	31.6	N. W.	31.6	N.	32.9	N.	33.3	W.	31.3

PIKES PEAK, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [December, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	10	11	11	13	12	13	14	*14*	14	14	*15*	16	17	*18*	19	20	*20*	19	19	*18*	18	18	18	17	15.8	20	10
2	17	17	17	16	16	11	7	*6*	3	2	*1*	2	2	*2*	2	2	*1*	1	0	*—1*	—4	—4	—4	—5	4.4	5	—1
3	—5	—6	—6	—6	—6	—7	—7	—7	—8	—8	—7	—6	—5	*0*	2	5	*9*	8	11	*12*	12	13	13	15	0.7	12	—8
4	12	15	13	14	12	11	11	*16*	13	*11*	*13*	12	12	*11*	11	10	*9*	9	8	*6*	6	6	6	6	10.5	16	6
5	6	5	5	5	4	5	3	*2*	1	0	*—3*	—4	—4	*—3*	—3	—4	*—4*	—4	—4	*—5*	—6	—6	—7	—8	—1.2	2	5
6	—9	—8	—8	7	6	5	3	*—2*	0	2	*3*	4	7	*10*	11	12	*14*	15	12	*11*	11	13	13	11	4.2	15	—9
7	10	10	10	10	10	10	9	*8*	8	8	*7*	7	7	*8*	8	7	*7*	7	7	*6*	5	4	3	3	7.5	8	6
8	3	3	3	4	4	4	4	*3*	3	3	*3*	3	3	*3*	3	3	*3*	3	3	*3*	3	2	2	2	3.0	4	2
9	2	2	2	2	2	2	1	*0*	0	0	*0*	1	1	*2*	2	3	*4*	5	5	*5*	6	7	8	8	2.9	5	0
10	9	9	10	10	11	11	11	*12*	12	11	*11*	11	12	*12*	12	13	*13*	13	12	*12*	11	12	12	11	11.4	13	5
11	11	10	10	10	10	8	8	*8*	9	*9*	*10*	11	10	*10*	11	11	*12*	12	10	*9*	9	9	9	9	9.8	12	7
12	8	8	8	7	7	7	7	*8*	8	9	*11*	11	12	*14*	14	15	*16*	14	13	*13*	13	13	13	13	10.9	16	6
13	14	14	14	14	13	14	12	*11*	12	12	*11*	12	13	*14*	15	16	*15*	14	13	*12*	12	12	12	11	13.0	16	10
14	10	10	10	11	11	10	10	*10*	9	9	*11*	11	11	*11*	11	10	*9*	8	6	*5*	5	4	3	2	8.6	12	5
15	0	—2	—4	—5	—5	—5	—6	*—5*	—4	—4	*—3*	—5	—6	*—7*	—3	—8	*—7*	—2	4	*7*	7	8	9	10	—1.7	7	—8
16	17	14	14	14	14	15	13	*12*	12	14	*15*	14	15	*16*	14	13	*14*	12	11	*10*	9	10	10	9	13.0	18	7
17	10	11	11	13	13	14	16	*18*	18	17	*16*	16	16	*16*	17	18	*19*	18	19	*21*	20	19	20	21	16.5	21	9
18	21	20	19	19	19	19	19	*19*	18	*19*	*18*	18	18	*19*	20	17	*17*	16	16	*16*	18	18	17	17	18.2	21	16
19	16	16	15	14	13	14	14	*14*	13	16	*17*	20	18	*16*	16	15	*15*	14	13	*14*	13	14	13	13	14.8	20	12
20	14	13	13	13	12	12	12	*14*	14	15	*15*	15	15	*17*	16	17	*16*	15	13	*12*	12	12	11	11	13.7	18	12
21	11	12	11	11	12	10	10	*9*	9	10	*10*	12	14	*14*	14	15	*15*	14	14	*12*	13	15	16	17	12.5	16	8
22	17	17	17	16	14	13	13	*13*	13	12	*12*	12	13	*15*	16	17	*16*	14	13	*13*	13	14	14	12	14.1	18	11
23	12	12	11	12	11	10	11	*9*	9	10	*12*	14	13	*13*	13	14	*14*	12	13	*12*	11	11	11	11	11.7	14	9
24	10	10	10	10	9	9	9	*8*	8	6	*5*	3	4	*4*	4	4	*3*	2	2	*0*	—1	—2	—3	—5	4.5	8	0
25	—5	—5	—6	—5	—4	—4	—5	*—6*	—5	—5	*—3*	—1	0	*2*	2	1	*2*	1	1	*1*	0	0	0	0	—1.8	2	—7
26	0	0	0	0	0	1	2	*2*	2	2	*3*	4	5	*9*	10	9	*9*	7	8	*9*	9	9	9	10	5.0	10	—1
27	10	11	11	11	10	10	10	*8*	8	8	*6*	6	6	*6*	4	2	*2*	1	—1	*—1*	—1	—1	0	—1	5.2	12	—1
28	—1	—1	—1	—1	—1	—1	—2	*—3*	—4	—5	*—6*	—6	—6	*—6*	—6	—6	*—5*	—5	—7	*—8*	—8	—8	—8	—6	—4.6	—3	—8
29	—6	—5	—5	—5	—6	—8	—9	*—10*	—12	—11	*—11*	—11	—10	*—7*	—9	—10	*—10*	—10	—12	*—12*	—12	—13	—14	—14	—9.7	—7	—12
30	—15	—15	—16	—16	—17	—17	—18	*—18*	—16	—12	*—10*	—7	—8	*—5*	—4	—3	*—2*	—1	—1	*1*	0	0	0	2	—8.2	—1	—18
31	2	3	3	3	4	4	4	*4*	4	5	*8*	7	9	*10*	10	10	*10*	10	9	*9*	8	8	8	8	6.7	11	1
Mean.	6.8	6.8	6.5	6.7	6.4	6.1	5.8	5.7	5.5	5.8	6.1	6.5	6.9	7.9	8.0	8.0	8.3	7.8	7.4	7.2	6.8	7.0	6.9	6.8	6.8	11.0	2.1

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[December, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	SW.	40	SW.	34	SW.	32	SW.	41	SW.	61	SW.	73	SW.	67	SW.	54	SW.	41	SW.	40	SW.	41	106	SW.
2	*N.*	11	*E.*	11	*NE.*	9	N.	9	NE.	11	N.	9	NE.	8	*E.*	9	*NE.*	8	*N.*	9	NE.	8	43	SW.
3	SE.	33	*E.*	31	*N.*	34	NE.	33	NE.	35	NE.	36	NE.	38	*NE.*	36	*N.*	37	*NE.*	35	*N.*	36	45	NE.
4	NW.	66	NW.	57	NW.	37	NW.	37	NW.	39	W.	30	NW.	32	W.	52	W.	43	W.	33	W.	33	79	NW.
5	*N.*	13	*NE.*	18	NE.	17	NE.	16	NE.	11	NE.	11	*N.*	15	NE.	16	NE.	16	NE.	19	NE.	24	28	NE.
6	NE.	36	NE.	33	*NE.*	30	*NE.*	37	NE.	47	NE.	37	N.	35	N.	41	NE.	30	NE.	25	N.	40	57	NE.
7	*N.*	12	NW.	9	NW.	9	NW.	14	NW.	14	*NW.*	8	*N.*	11	N.	17	N.	12	NW.	18	NW.	25	76	W.
8	N.	18	N.	16	N.	16	N.	16	N.	16	NW.	20	NW.	18	*N.*	15	N.	15	N.	12	N.	8	38	N.
9	N.	20	N.	18	*NW.*	24	NW.	18	W.	19	NW.	22	*W.*	23	*NW.*	29	*W.*	38	NW.	35	NW.	36	41	W.
10	*W.*	54	*NW.*	67	W.	73	W.	75	W.	76	W.	80	W.	81	W.	82	W.	77	W.	81	W.	77	88	W.
11	NW.	48	W.	46	NW.	42	W.	34	W.	39	W.	29	W.	33	W.	35	W.	45	W.	33	W.	37	86	W.
12	W.	54	W.	43	W.	41	W.	43	W.	46	W.	53	W.	55	W.	55	W.	51	W.	51	W.	47	74	W.
13	W.	72	W.	73	W.	70	W.	74	W.	74	W.	71	W.	70	W.	68	W.	63	W.	64	W.	59	87	W.
14	SW.	49	S.	44	*S.*	47	*SW.*	51	*S.*	42	S.	35	S.	25	S.	23	SW.	25	*SW.*	24	SW.	21	80	W.
15	NW.	32	*NW.*	44	NW.	52	*N.*	46	*NW.*	59	*NE.*	60	NE.	60	NE.	55	NE.	50	NE.	47	NE.	42	71	N.
16	NE.	17	NE.	16	NE.	16	NE.	15	NE.	12	NE.	18	NE.	16	NE.	14	NE.	18	NE.	17	N.	17	71	N.
17	NE.	34	NE.	30	NE.	24	NE.	22	NE.	20	NE.	20	NE.	20	NE.	24	NE.	25	NE.	27	NE.	29	56	N.
18	NE.	15	NE.	11	NE.	11	N.	10	N.	10	N.	14	N.	13	*NW.*	11	NW.	9	W.	13	W.	11	37	NE.
19	W.	13	W.	22	W.	33	W.	40	W.	35	W.	33	W.	34	W.	36	W.	40	W.	30	W.	27	44	W.
20	W.	25	W.	28	W.	36	W.	35	SW.	22	SW.	26	SW.	25	SW.	25	SW.	26	SW.	41	SW.	48	54	SW.
21	W.	40	W.	31	W.	37	W.	46	W.	50	W.	41	W.	48	W.	51	W.	47	W.	38	W.	33	62	SW.
22	W.	15	SW.	13	SW.	17	SW.	19	SW.	23	SW.	31	SW.	32	SW.	37	SW.	40	SW.	39	SW.	48	55	SW.
23	SW.	35	SW.	40	SW.	33	S.	16	SW.	16	S.	13	S.	9	SE.	11	SE.	8	SE.	9	SE.	12	86	SW.
24	SW.	50	SW.	56	SW.	56	SW.	53	SW.	49	SW.	39	SW.	33	SW.	26	SW.	29	SW.	19	SW.	22	62	SW.
25	E.	10	W.	22	E.	22	W.	29	SW.	31	SW.	31	SW.	30	SW.	30	W.	37	SW.	39	SW.	43	51	SW.
26	SW.	27	SW.	23	S.	24	S.	27	SW.	31	SW.	29	SW.	25	SW.	24	SW.	23	SW.	22	SW.	26	63	SW.
27	SW.	17	S.	23	SW.	35	SW.	30	SW.	25	SW.	27	S.	30	S.	27	SW.	28	SW.	25	SW.	18	43	W.
28	W.	48	W.	47	W.	48	W.	47	W.	47	W.	51	W.	42	W.	43	W.	41	NW.	47	N.	20	57	W.
29	N.	9	N.	8	N.	12	N.	11	*N.*	12	N.	15	N.	17	N.	17	N.	19	N.	22	N.	16	39	NW.
30	NE.	34	NE.	35	NE.	35	NE.	33	NE.	32	NE.	28	NE.	24	NE.	21	NE.	22	NE.	22	NE.	25	41	NE.
31	N.	11	N.	7	N.	12	N.	17	N.	22	NW.	20	W.	22	W.	32	W.	39	W.	37	W.	43	46	W.
Mean.	W.	31.5	W.	30.8	W.	31.7	W.	32.1	SW.	33.1	W.	32.6	W.	32.0	W.	32.8	W.	32.3	W.	31.4	W.	31.4	.....	.....

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COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

NOTE.—All eye readings are printed in *italics*.

November, 1892.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.84	.84	.84	.83	.83	.83	.84	.85	.87	*.90*	*.93*	*.94*	.94	.93	*.92*	*.93*	*.94*	*.94*	*.97*	1.00	1.02	1.03	1.04	1.05	.92	1.05	.83
2	1.05	1.05	1.06	1.07	1.07	1.08	1.08	1.09	1.12	*1.14*	*1.14*	1.15	1.15	1.14	*1.12*	1.12	*1.14*	*1.14*	*1.15*	1.15	1.15	1.15	1.15	1.15	1.12	1.15	1.05
3	1.15	1.13	1.13	1.13	1.11	1.11	1.10	1.10	*1.09*	*1.09*	*1.11*	1.11	1.11	*1.11*	1.10	*1.08*	1.08	*1.07*	1.08	1.11	1.13	1.14	1.15	1.16	1.11	1.16	1.07
4	1.17	1.20	1.21	1.23	1.23	1.24	1.25	1.26	1.25	*1.26*	*1.27*	1.27	1.28	1.26	*1.25*	*1.22*	1.22	1.22	1.22	*1.23*	1.24	1.25	1.25	1.24	1.24	1.28	1.17
5	1.23	1.22	1.21	1.20	1.19	1.16	1.14	*1.13*	1.11	*1.08*	*1.09*	1.08	1.05	1.02	.97	.94	.93	.89	.86	.93	.81	.79	.77	.73	1.02	1.23	.73
6	.69	.68	.69	.69	.69	.70	.75	*.75*	.80	.82	.85	*.86*	.88	.87	.86	.87	.89	.91	.93	.96	.98	1.00	1.04	1.06	.84	1.06	.68
7	1.06	1.06	1.07	1.07	1.07	1.10	1.10	*1.10*	1.10	1.10	1.10	1.08	1.08	*1.05*	1.03	1.02	1.00	1.00	1.00	*1.00*	1.00	1.00	1.00	.99	1.05	1.10	.99
8	.98	.97	.96	.95	.94	.94	.94	*.94*	.94	.95	.96	.97	.99	.99	.99	.99	1.00	1.03	1.05	*1.11*	1.12	1.13	1.15	1.17	1.01	1.17	.94
9	1.18	1.19	1.20	1.22	1.22	1.22	1.24	*1.26*	1.28	1.30	1.32	1.32	1.32	*1.29*	1.27	1.27	1.28	1.29	1.30	*1.32*	1.32	1.33	1.33	1.33	1.28	1.33	1.18
10	1.33	1.33	1.32	1.30	1.29	1.28	1.27	*1.27*	*1.26*	1.25	1.24	1.23	1.20	*1.18*	1.16	1.14	1.13	1.13	1.14	*1.16*	1.17	1.17	1.18	1.18	1.22	1.33	1.13
11	1.18	1.19	1.19	1.20	1.20	1.20	1.21	*1.24*	1.25	1.25	1.28	1.28	1.27	*1.25*	1.22	1.20	1.18	1.18	1.18	*1.18*	1.18	1.18	1.18	1.17	1.21	1.28	1.17
12	1.16	1.16	1.15	1.13	1.12	1.11	1.10	*1.07*	1.08	1.08	1.07	1.05	1.06	*.99*	.98	.96	.96	.95	.95	*.96*	.94	.96	.95	.96	1.01	1.16	.94
13	.96	1.01	1.06	1.10	1.12	1.12	1.17	*1.19*	1.24	1.25	1.28	1.28	1.27	*1.27*	1.22	1.23	1.23	1.24	1.25	*1.25*	1.25	1.25	1.24	1.23	1.20	1.28	.96
14	1.22	1.19	1.15	1.13	1.08	1.05	1.03	*1.00*	.97	.93	.92	.91	.87	.81	.76	.74	.71	.70	.70	.70	.69	.69	.72	.72	.89	1.22	.69
15	.72	.72	.73	.75	.75	.76	.79	*.79*	.81	.81	.82	.82	.83	.78	.76	.75	.74	.73	.76	.77	.76	.76	.76	.75	.77	.83	.72
16	.73	.72	.69	.69	.67	.65	.63	*.61*	.62	.63	.65	*.65*	.63	*.60*	.63	.65	.68	.73	.79	*.80*	.80	.86	.90	.92	.70	.92	.61
17	.95	.96	1.01	1.02	1.02	1.07	1.07	*1.08*	*1.11*	1.13	1.15	1.14	1.12	*1.08*	1.09	*1.02*	1.02	*1.00*	.99	*1.01*	1.00	1.02	1.03	1.02	1.05	1.15	.95
18	1.00	.99	1.01	1.02	1.02	1.03	1.04	*1.08*	1.09	1.08	1.09	*1.10*	1.11	*1.05*	1.04	1.01	1.04	1.04	1.06	*1.08*	1.08	1.08	1.08	1.09	1.06	1.11	.99
19	1.11	1.11	1.11	1.12	1.13	1.12	1.11	*1.11*	1.10	1.10	1.10	1.08	1.07	1.00	.90	.93	.92	.90	.88	.87	.85	.83	.84	.82	1.00	1.13	.82
20	.80	.78	.77	.77	.78	.80	.82	*.84*	.88	*.90*	.95	*.97*	.97	.95	.96	.98	1.04	1.07	1.10	*1.13*	1.15	1.16	1.17	1.19	.96	1.19	.77
21	1.19	1.20	1.19	1.19	1.19	1.19	1.18	*1.18*	1.19	1.19	*1.18*	1.16	1.17	*1.15*	1.15	1.17	1.14	1.15	1.16	*1.16*	1.18	1.16	1.16	1.16	1.17	1.20	1.14
22	1.16	1.16	1.16	1.18	1.21	1.18	1.20	*1.20*	1.22	1.23	1.22	1.22	1.22	*1.20*	1.18	1.17	1.18	1.18	1.18	*1.18*	1.18	1.18	1.18	1.17	1.19	1.23	1.16
23	1.17	1.16	1.14	1.12	1.12	1.10	1.08	*1.06*	1.04	1.03	1.04	1.02	.98	*.95*	.92	.91	.92	.92	.91	*.91*	.91	.90	.88	.88	1.00	1.17	.88
24	.85	.84	.83	.81	.79	.70	.75	*.70*	.68	.68	.68	.67	.68	*.60*	.58	.56	.49	.45	.47	*.47*	.49	.50	*.55*	.57	.64	.85	.45
25	.57	.59	.61	.64	.59	.60	.70	.75	.80	*.85*	.84	.86	.84	*.84*	.84	.87	.88	.88	.90	*.91*	.90	.91	.91	.91	.79	.91	.57
26	.89	.88	.88	.87	.86	.84	.84	*.84*	.84	.83	.83	.81	.77	*.77*	.77	.78	.80	.82	.84	*.86*	.89	.89	.92	.84	.92	.77
27	.90	.93	.93	.96	.98	1.00	1.01	*1.04*	1.04	*1.04*	1.04	1.06	1.05	1.03	1.02	1.00	.99	1.03	1.04	*1.06*	1.06	1.06	1.05	1.04	1.02	1.06	.90
28	1.04	1.03	1.01	1.01	1.01	1.01	1.01	*.99*	1.00	.99	*.98*	.96	.97	*.94*	.91	.88	.94	.96	.97	*.98*	.97	.98	.99	.99	.96	1.04	.88
29	.99	.99	.99	1.02	1.03	1.03	1.04	*1.05*	1.06	1.06	1.07	1.07	1.06	*1.06*	1.02	1.03	1.04	1.04	1.04	*1.05*	1.04	1.04	1.04	1.03	1.04	1.07	.99
30	1.05	1.05	1.05	1.05	1.05	1.05	1.05	*1.05*	1.07	1.06	1.07	1.07	1.06	1.02	1.01	1.01	1.00	.99	1.00	*1.02*	1.02	1.02	1.03	1.01	1.04	1.07	.99
Mean	1.01	1.01	1.01	1.02	1.01	1.01	1.02	1.02	1.03	1.03	1.04	1.04	1.03	1.00	.99	.98	.98	.99	1.00	1.01	1.01	1.01	1.02	1.02	1.01	1.12	.90

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

December, 1892.]

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min
1	1.00	.98	.96	.95	.95	.94	.92	.91	.91	.91	.90	.90	.89	*.86*	.85	.86	.88	.88	.92	.95	.97	.98	1.00	1.01	.93	1.01	.85
2	1.02	1.05	1.05	1.07	1.10	1.12	1.13	1.15	1.14	*1.15*	1.16	*1.17*	1.17	*1.11*	1.12	1.09	1.09	1.10	1.12	1.08	1.14	1.13	1.12	1.11	1.11	1.17	1.02
3	1.10	1.08	1.06	1.06	1.03	1.02	1.01	1.00	1.01	1.00	*.99*	.98	.99	*.93*	.89	.88	.88	.89	.90	.91	.91	.90	.90	.90	.97	1.10	.88
4	.88	.87	.87	.86	.86	.86	.86	.87	.88	.89	.90	.89	.88	*.86*	.84	.84	.84	.84	.84	.85	.85	.85	.84	.83	.86	.90	.83
5	.82	.82	.82	.82	.82	.81	.82	.83	.84	*.84*	.80	.82	.83	*.82*	.81	.80	.80	.83	.85	.86	.85	.87	.89	.88	.83	.89	.80
6	.89	.88	.88	.88	.87	.86	.86	.87	.86	.86	.87	.87	.88	*.88*	.87	.89	.89	.90	.90	.92	.92	.91	.92	.93	.89	.93	.86
7	.95	.98	1.00	1.00	1.01	1.01	1.01	1.03	1.04	1.05	1.05	1.05	1.03	*1.02*	1.00	1.00	1.00	1.01	1.02	1.03	1.03	1.03	1.02	1.01	1.02	1.05	.95
8	1.00	.99	.98	.97	.96	.94	.93	.91	.90	.89	.89	.90	.88	*.86*	.85	.86	.87	.89	.92	.94	.95	.97	*.97*	.97	.92	1.00	.85
9	.97	.98	.99	.98	.98	.96	.96	.96	.96	.96	.97	.97	.95	*.93*	.89	.88	.88	.88	.89	.90	.91	.91	.92	.92	.94	.99	.88
10	.94	.92	.92	.92	.92	.92	.92	.93	.94	.95	*.96*	.98	.96	*.93*	.92	.91	.92	.92	.93	.94	.93	.93	.94	.93	.93	.98	.91
11	.92	.91	.90	.90	.88	.89	.87	.88	.90	.93	*.95*	.96	.95	*.94*	.93	.94	.94	.97	.99	1.00	1.03	1.04	1.05	1.05	.95	1.05	.87
12	1.05	1.02	1.01	1.01	1.00	.99	.98	.98	.97	.95	.95	.95	.93	*.85*	.85	.84	.84	.83	.83	.82	.81	.81	.80	.79	.91	1.05	.79
13	.79	.80	.81	.82	.83	.84	.86	.89	.92	.95	.98	1.00	.99	*.97*	.95	.93	.95	.97	.93	1.01	1.02	1.04	1.05	1.05	.93	1.05	.79
14	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.05	1.07	1.08	1.09	1.09	1.08	*1.06*	*1.05*	1.05	1.05	1.05	1.06	1.08	1.08	1.08	1.07	1.08	1.06	1.09	1.04
15	1.08	1.08	1.06	1.04	1.02	1.01	1.00	.99	.99	.98	.96	.95	.94	*.89*	.89	.89	.87	.88	.88	.89	.90	.90	.90	.90	.95	1.08	.87
16	.90	.91	.91	.92	.92	.93	.93	.94	.95	.96	.97	1.01	1.03	*1.03*	1.03	1.03	1.04	1.06	1.07	1.09	1.11	1.13	1.14	1.15	1.01	1.15	.90
17	1.17	1.18	1.18	1.19	1.19	1.18	1.17	1.14	1.15	1.15	*1.15*	1.16	1.15	*1.12*	1.09	*1.08*	1.07	1.05	1.04	1.04	1.04	1.02	1.01	1.00	1.11	1.19	1.00
18	.99	.98	.97	.96	.95	.92	.90	.89	.89	.86	*.84*	.84	.82	*.79*	.79	.79	.80	.81	.83	.86	.89	.91	.94	.95	.88	.99	.79
19	.96	.96	.97	.96	.95	.95	.95	.96	.97	*.99*	1.00	1.01	1.02	*.99*	.97	.95	.94	.94	.93	.93	.91	.90	.88	.88	.95	1.02	.88
20	.96	.84	.80	.78	.77	.75	.73	.70	.68	.67	.68	.67	.66	*.66*	.66	.66	.68	.71	.74	.76	.78	.79	.79	.81	.74	.80	.66
21	.82	.84	.86	.87	.88	.91	.94	.97	.98	*1.01*	1.02	1.05	1.05	*1.05*	1.04	1.02	1.02	1.03	1.04	1.06	1.06	1.06	1.06	1.06	.99	1.06	.82
22	1.06	1.05	1.04	1.03	1.02	1.01	1.00	1.00	1.01	1.04	1.05	1.06	1.04	*1.03*	1.00	1.00	1.00	.99	1.00	1.00	1.00	1.00	1.00	.99	1.02	1.06	.99
23	.98	.98	.98	.98	.98	.98	.97	.98	.98	.99	1.00	1.01	.99	*.98*	.97	.97	.99	1.00	1.01	1.02	1.04	1.04	1.05	1.06	1.00	1.06	.97
24	1.06	1.00	1.00	.99	1.00	1.00	1.00	1.00	1.02	1.01	1.00	1.00	1.01	*1.02*	1.01	.99	.99	.99	.99	.97	.94	.93	.91	1.00	1.00	1.06	.91
25	.89	.86	.84	.84	.84	.84	.86	.90	.91	.93	.96	.93	.94	*.92*	.95	.96	1.01	1.04	1.07	1.12	1.11	1.15	1.17	1.17	.96	1.17	.84
26	1.18	1.20	1.22	1.23	1.24	1.24	1.22	1.20	1.20	1.20	1.20	1.20	1.17	*1.13*	1.09	1.06	1.03	1.02	1.00	.99	.98	.95	.94	.93	1.12	1.24	.93
27	.92	.91	.91	.91	.93	.94	.94	.96	.96	.98	1.00	1.00	1.00	*1.01*	1.00	1.00	1.02	1.04	1.06	1.09	1.10	1.12	1.13	1.13	1.00	1.13	.91
28	1.15	1.14	1.14	1.13	1.13	1.13	1.11	1.11	1.11	1.10	1.10	1.09	1.05	*1.02*	.98	.96	.95	.94	.92	.91	.90	.87	.84	.84	1.02	1.15	.84
29	.83	.80	.77	.77	.78	.77	.75	.76	.76	.77	.78	.77	.76	*.72*	.69	.68	.70	.71	.72	.74	.76	.85	.90	.94	.77	.94	.68
30	.96	.96	.99	1.02	1.06	1.07	1.08	1.11	1.14	1.16	1.19	1.18	1.17	*1.14*	1.12	1.11	1.11	1.10	1.11	1.12	1.11	1.11	1.10	1.10	1.10	1.19	.96
31	1.09	1.08	1.05	1.05	1.04	1.02	.99	.97	.97	.97	.96	.97	.97	*.99*	.99	.98	.99	1.00	1.03	1.05	1.05	1.06	1.07	1.07	1.02	1.09	.96
Mean	.98	.97	.97	.97	.97	.96	.96	.96	.97	.97	.98	.98	.97	.95	.94	.93	.94	.94	.96	.97	.97	.98	.98	.98	.96	1.06	.88

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [November, 1892.

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	38	39	39	35	34	33	33	*32*	33	*33*	*33*	31	32	33	34	32	*33*	*32*	*31*	*31*	31	31	31	31	33.1	38	31
2	31	31	31	31	31	31	29	*30*	31	*32*	*39*	37	36	37	*42*	45	*39*	*32*	*29*	*28*	26	20	17	16	31.3	46	28
3	15	14	12	13	15	20	17	*15*	17	*22*	*30*	39	48	*51*	49	*50*	47	*43*	39	*35*	34	33	*33*	32	30.1	55	12
4	32	27	27	25	25	28	30	*28*	28	*34*	40	46	56	59	61	*60*	60	55	44	*36*	36	33	31	30	38.8	64	24
5	30	28	29	28	28	27	28	*33*	*35*	39	*42*	58	62	60	61	60	61	56	45	*44*	37	35	32	37	41.3	66	26
6	41	41	53	54	47	48	44	*36*	34	34	39	45	43	42	45	47	*42*	40	38	*35*	32	32	31	29	40.5	48	34
7	27	27	26	25	23	21	20	*22*	21	*25*	33	35	38	*35*	37	37	37	36	33	*30*	29	27	26	25	29.1	43	19
8	24	23	22	24	25	26	27	*27*	28	31	36	40	40	*40*	41	40	40	37	34	*32*	31	31	30	29	31.6	43	21
9	28	27	23	23	21	21	19	*20*	20	31	34	43	47	*46*	42	39	39	39	37	*34*	30	27	25	24	30.8	55	18
10	22	22	22	21	21	23	24	*25*	27	36	45	60	66	*57*	55	55	69	54	47	*45*	46	47	48	45	40.5	66	21
11	41	40	39	39	38	37	39	*36*	36	43	49	52	51	*53*	53	56	53	52	47	*41*	40	39	35	34	43.5	58	34
12	33	35	40	40	40	39	38	*39*	39	46	56	65	67	*72*	69	65	67	66	57	*53*	49	46	48	48	50.7	76	33
13	51	43	35	32	32	30	31	*31*	33	39	40	43	49	*51*	46	45	44	43	38	*33*	32	29	27	25	37.6	56	21
14	24	25	25	25	25	24	23	*25*	*33*	38	45	52	55	*53*	63	64	63	62	55	*54*	42	40	45	43	41.8	70	23
15	42	39	39	37	35	44	41	*36*	36	38	36	36	35	*38*	35	36	36	35	33	*33*	32	31	30	25	35.8	43	23
16	26	25	24	26	26	26	25	*28*	29	30	27	30	32	*36*	36	36	32	31	27	*26*	26	23	23	22	28.0	45	23
17	22	24	22	22	21	20	19	*19*	*18*	17	20	26	30	*35*	36	42	42	43	38	*36*	33	36	40	46	29.4	43	17
18	47	47	47	46	47	46	46	*45*	45	49	52	53	60	*58*	60	63	60	57	47	*48*	49	49	43	38	50.1	65	40
19	40	38	34	36	35	35	35	*38*	33	32	33	35	42	*49*	50	54	55	53	47	*46*	46	47	44	50	41.8	57	32
20	58	56	56	54	55	54	52	*51*	45	42	48	51	53	*56*	52	50	44	42	39	*37*	34	35	34	31	47.0	61	41
21	30	26	25	23	22	19	19	*18*	19	25	34	39	43	*46*	46	46	45	43	41	*40*	42	40	43	47	34.2	49	18
22	51	56	52	49	45	44	43	*43*	43	44	45	47	51	*52*	53	54	54	52	45	*38*	34	35	33	30	45.5	58	28
23	30	30	28	28	28	28	28	*28*	*28*	35	40	46	48	*48*	50	50	48	46	45	*39*	39	36	34	34	37.2	51	26
24	34	34	33	32	36	37	38	*38*	43	*43*	38	37	41	*45*	54	59	56	53	51	*50*	45	35	34	32	40.3	65	30
25	31	30	29	28	30	28	26	*25*	26	*28*	30	33	36	*38*	40	42	42	39	35	*33*	28	28	27	25	31.5	43	28
26	21	20	20	20	20	21	21	*23*	22	30	37	46	47	*48*	48	47	45	43	41	*40*	38	32	36	38	33.5	52	19
27	37	36	34	30	27	25	23	*24*	21	30	35	34	37	*38*	44	46	46	43	37	*34*	35	30	30	30	33.5	48	20
28	29	30	31	32	30	27	49	*50*	51	*51*	52	55	57	*55*	58	58	57	55	50	*46*	46	46	44	45	46.0	63	25
29	46	51	43	46	43	45	41	*42*	42	42	46	53	56	*57*	59	58	57	58	47	*44*	41	39	39	39	47.2	59	39
30	39	38	34	38	39	36	37	*42*	42	40	48	52	55	56	58	57	57	52	48	*44*	36	40	36	34	44.1	60	33
Mean	34.0	33.4	32.5	32.1	31.5	31.5	31.5	31.5	31.6	35.4	39.4	44.0	47.1	48.1	49.2	49.8	48.7	46.4	41.5	38.7	36.5	34.4	34.3	33.8	38.2	54.9	26.2

TEMPERATURE.

[December, 1892.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	51	52	52	53	52	50	45	*39*	37	42	*49*	53	59	*61*	63	63	61	59	55	*53*	48	44	45	45	51.3	65	34
2	43	41	40	36	33	29	32	*33*	30	*34*	41	*44*	44	*46*	46	47	47	45	40	*38*	32	32	32	29	38.1	49	27
3	27	29	28	30	28	30	35	*34*	36	39	46	50	53	*55*	55	54	52	49	42	*39*	40	40	49	52	41.3	58	25
4	54	56	57	57	57	52	47	*44*	38	38	35	34	35	*36*	36	36	38	41	42	*38*	37	36	35	34	42.2	54	31
5	34	37	35	36	35	32	32	*35*	35	*35*	36	38	40	*41*	42	43	43	38	33	*29*	28	29	29	27	35.1	44	29
6	28	26	26	25	25	25	24	*23*	23	23	*25*	27	28	*28*	30	29	28	27	26	*26*	25	23	23	21	25.5	33	23
7	20	19	17	18	18	17	16	*16*	17	17	*18*	19	20	*23*	24	25	22	21	18	*18*	12	8	8	8	17.5	29	16
8	7	4	5	4	6	8	7	*9*	11	14	*20*	*31*	34	*32*	32	29	26	25	23	*22*	21	17	*12*	9	17.4	33	5
9	8	10	9	6	9	7	5	*6*	6	6	14	*18*	20	*21*	23	25	25	24	24	*21*	20	20	18	19	15.2	22	4
10	19	19	17	16	15	13	12	*10*	12	15	*27*	27	28	*27*	27	27	26	25	23	*20*	16	16	18	20	19.6	30	10
11	18	16	13	12	11	8	8	7	11	13	*16*	22	26	*27*	25	25	25	23	19	*19*	17	16	14	13	16.8	28	8
12	11	9	9	8	9	7	8	*9*	8	11	21	23	26	27	27	27	26	22	18	*14*	16	20	18	17	16.3	27	8
13	18	18	17	17	16	16	16	*16*	15	16	20	22	23	26	24	24	23	21	18	*17*	17	16	16	15	18.6	27	11
14	16	14	14	14	14	13	13	*12*	12	12	15	15	15	16	16	15	14	13	12	*10*	9	5	2	0	12.1	19	8
15	—4	—9	—9	—8	—9	—9	—7	—9	—9	—6	0	8	15	*21*	25	26	24	20	15	*13*	14	18	21	19	6 7	31	—8
16	15	14	17	11	14	15	13	*14*	11	12	13	16	16	16	16	17	19	20	16	*17*	15	15	14	12	14.9	23	12
17	8	7	3	1	—2	0	—6	—6	—5	—3	0	6	11	*14*	16	14	13	13	9	*2*	—3	—4	—1	—1	3.6	15	—6
18	3	3	2	7	3	5	7	*5*	2	5	11	19	26	*32*	36	36	33	30	30	*28*	27	25	25	24	17.7	38	—2
19	24	24	22	22	17	14	14	*17*	15	*21*	14	15	14	*14*	14	14	13	11	9	*9*	9	5	6	6	14.3	18	9
20	6	5	6	7	6	5	—5	—2	3	5	12	21	24	*14*	11	11	11	11	12	*15*	14	13	10	8	9.3	25	—7
21	8	8	7	7	6	6	—2	—4	—9	—7	—2	2	7	7	7	6	7	7	3	—2	—2	—6	—5	—5	1.8	10	—8
22	—5	—4	—2	—3	1	2	5	*9*	11	19	30	*34*	37	35	34	34	32	29	27	*25*	24	24	*25*	25	18.7	40	—8
23	26	26	26	26	23	27	30	*31*	26	30	32	38	43	*49*	49	51	48	48	46	*46*	52	52	47	43	38.1	53	19
24	46	45	45	38	37	34	39	*34*	36	36	42	45	53	*51*	51	53	48	46	45	*46*	44	43	41	44	43.4	56	30
25	40	41	43	42	44	51	52	*50*	45	45	43	47	48	*48*	49	48	44	42	44	*41*	35	34	32	31	43.3	54	40
26	30	29	26	24	24	23	21	*22*	22	*25*	23	24	26	*26*	30	29	29	28	28	*28*	28	35	50	50	28.2	53	21
27	49	49	47	47	44	42	45	*43*	43	42	45	46	45	*45*	43	42	40	39	36	*34*	32	33	33	33	41.5	47	28
28	32	31	29	27	27	25	23	*22*	20	21	24	29	31	*32*	39	40	38	38	37	*32*	31	30	29	28	29.8	35	18
29	28	29	36	37	39	40	40	*40*	36	36	35	35	36	*38*	38	39	39	39	37	*34*	33	28	25	24	35.0	41	26
30	23	23	24	24	23	22	22	*22*	24	24	25	27	28	*29*	32	34	34	32	28	*24*	21	19	18	19	25.0	34	22
31	23	24	24	24	25	26	28	*28*	33	39	41	41	41	*40*	40	40	37	35	30	*28*	29	29	29	28	31.7	43	17
Mean	22.7	22.4	22.1	21.5	21.0	20.5	20.0	19.6	19.2	21.2	25.0	28.3	30.7	31.6	32.3	32.4	31.1	29.7	27.3	25.3	23.9	23.1	23.2	22.5	24.8	36.6	14.3

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

NOTE.—All eye readings are printed in *italics*.

January, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	1.06	1.05	1.04	1.03	1.02	1.00	.99	*.89*	1.01	1.03	1.04	1.04	1.03	*1.01*	1.00	.98	.97	.96	.96	*.96*	.95	.92	.90	.90	.99	1.06	.90
2	.91	.91	.91	.92	.92	.92	.95	*.97*	1.00	*1.03*	1.02	1.02	1.03	*1.04*	1.04	1.04	1.04	1.04	1.06	*1.12*	1.14	1.13	1.12	1.11	1.02	1.14	.91
3	1.10	1.11	1.10	1.10	1.08	1.07	1.04	*1.03*	1.03	1.01	.99	.98	.96	*.94*	.93	.94	.94	.94	.96	*.96*	.96	.97	.97	.98	1.00	1.11	.93
4	.98	.99	.97	.98	.99	.98	.97	*.98*	1.01	1.03	1.04	1.04	1.03	*1.00*	1.00	1.00	1.00	1.03	1.07	*1.11*	1.14	1.13	1.13	1.13	1.03	1.14	.97
5	1.15	1.15	1.15	1.15	1.15	1.15	1.15	*1.15*	1.17	1.19	1.18	1.18	1.17	*1.13*	1.13	1.12	1.12	1.12	1.13	*1.14*	1.15	1.14	1.13	1.12	1.15	1.19	1.12
6	1.10	1.10	1.09	1.08	1.07	1.05	1.04	*1.03*	1.04	1.05	1.05	1.05	1.03	*1.02*	1.02	1.05	1.08	1.09	1.14	*1.16*	1.17	1.17	1.19	1.20	1.09	1.20	1.02
7	1.22	1.23	1.24	1.25	1.26	1.25	1.25	*1.27*	1.31	1.34	1.35	1.34	1.34	*1.30*	1.28	1.28	1.28	1.29	1.31	*1.33*	1.33	1.33	1.33	1.34	1.29	1.35	1.22
8	1.31	1.28	1.27	1.26	1.25	1.21	1.19	*1.14*	1.14	1.14	1.14	1.12	1.08	*1.05*	1.04	1.02	1.02	1.02	1.02	*1.04*	1.05	1.05	1.05	1.05	1.12	1.31	1.02
9	1.04	1.04	1.04	1.05	1.05	1.03	1.02	*1.04*	1.06	*1.07*	1.10	1.10	1.08	*1.04*	1.03	1.02	1.01	1.00	1.01	*1.01*	1.01	1.01	1.00	.99	1.04	1.10	.99
10	.97	.97	.96	.96	.95	.93	.91	*.90*	.89	.89	.89	.87	.83	*.80*	.76	.73	.70	.69	.67	*.66*	.65	.65	.64	.65	.81	.97	.64
11	.69	.74	.76	.78	.80	.82	.85	*.86*	.88	.90	.92	.93	.93	*.92*	.92	.94	.98	1.01	1.04	*1.06*	1.11	1.14	1.15	1.16	.93	1.16	.69
12	1.16	1.16	1.16	1.16	1.17	1.16	1.16	*1.16*	1.15	1.15	1.16	1.15	1.13	*1.09*	1.07	1.05	1.06	1.07	1.07	*1.07*	1.10	1.09	1.08	1.07	1.12	1.17	1.05
13	1.05	1.03	1.01	1.00	.98	.97	.94	*.91*	.89	.88	.86	.85	.83	*.76*	.75	.72	.70	.68	.70	*.71*	.70	.70	.75	.77	.84	1.05	.68
14	.78	.80	.82	.85	.87	.88	.91	*.94*	.97	1.01	1.04	1.06	1.05	1.03	1.03	1.02	1.03	1.07	1.09	*1.11*	1.13	1.14	1.15	1.15	1.00	1.15	.78
15	1.15	1.16	1.16	1.17	1.17	1.16	1.15	*1.16*	1.16	1.16	1.16	1.16	1.15	*1.12*	1.11	1.10	1.10	1.10	1.10	*1.11*	1.11	1.12	1.13	1.13	1.14	1.17	1.10
16	1.12	1.11	1.10	1.10	1.10	1.10	1.10	*1.09*	1.08	1.08	*1.07*	1.05	1.04	*1.01*	.98	.96	.96	.96	.96	*.96*	.95	.94	.93	.92	1.02	1.12	.92
17	.90	.87	.87	.87	.87	.86	.87	*.88*	.91	.92	.96	.99	.98	*.95*	.93	.93	.93	.94	.95	*.98*	.98	1.00	1.01	1.02	.93	1.02	.86
18	1.02	1.02	1.03	1.03	1.03	1.01	1.01	*1.01*	1.01	1.01	1.02	1.02	.99	*.95*	.95	.93	.93	.93	.94	*.96*	.96	.97	.98	1.00	.99	1.03	.93
19	1.01	1.01	1.02	1.03	1.04	1.05	1.05	*1.06*	1.07	1.08	1.09	1.09	1.09	*1.07*	1.06	1.04	1.05	1.06	1.07	*1.08*	1.10	1.10	1.11	1.10	1.06	1.11	1.01
20	1.10	1.09	1.08	1.08	1.08	1.07	1.06	*1.05*	1.04	1.04	1.03	1.04	1.03	*1.02*	.98	.99	.99	.99	1.02	*1.05*	1.06	1.06	1.07	1.08	1.05	1.10	.98
21	1.09	1.09	1.09	1.09	1.10	1.10	1.10	*1.12*	1.12	1.12	1.12	1.13	1.12	*1.10*	1.09	1.08	1.09	1.10	1.12	*1.14*	1.16	1.17	1.18	1.17	1.12	1.18	1.08
22	1.20	1.19	1.19	1.19	1.20	1.19	1.19	*1.20*	1.20	1.20	1.20	1.20	1.19	*1.18*	1.16	1.14	1.13	1.12	1.13	*1.14*	1.14	1.15	1.17	1.17	1.16	1.20	1.12
23	1.18	1.18	1.18	1.18	1.19	1.20	1.20	*1.22*	1.22	1.22	1.22	1.22	1.21	*1.16*	1.14	1.13	1.11	1.10	1.10	*1.09*	1.08	1.07	1.04	1.04	1.15	1.22	1.04
24	1.01	1.00	.99	.98	.97	.97	.96	*.97*	.97	.97	.98	.98	.99	*.96*	.94	.93	.90	.90	.91	*.94*	.95	.94	.92	.91	.96	1.01	.90
25	.90	.88	.87	.87	.86	.85	.85	*.82*	.85	.85	.85	.85	.85	*.82*	.81	.80	.79	.78	.80	*.85*	.86	.86	.87	.88	.85	.90	.78
26	.90	.91	.92	.92	.94	.94	.93	*.93*	.94	.94	.93	.93	.91	*.89*	.83	.83	.82	.83	.84	*.85*	.85	.83	.81	.80	.88	.94	.80
27	.73	.75	.72	.72	.71	.69	.66	*.65*	.66	.67	.65	.66	.68	*.67*	.64	.64	.63	.63	.62	*.60*	.60	.60	.59	.57	*.66*	.79	.57
28	.56	.53	.55	.56	.56	.56	.61	*.60*	.59	.63	.67	.71	.71	*.71*	.71	.71	.73	.76	.73	*.83*	.84	.86	.89	.93	.69	.93	.53
29	.93	.94	.94	.95	.94	.93	.92	*.90*	.90	.90	.88	.86	.84	*.79*	.74	.74	.74	.75	.76	*.78*	.84	.86	.88	.87	.86	.95	.74
30	.87	.88	.90	.95	.98	1.00	1.04	*1.04*	1.04	*1.04*	1.03	1.03	.99	*.92*	.88	.84	.80	.75	.72	*.69*	.63	.59	.57	.55	.86	1.04	.55
31	.58	.55	.50	.48	.46	.45	.45	*.47*	.49	.51	.53	.53	.53	*.55*	.55	.55	.56	.57	.60	*.61*	.62	.74	.77	.79	.56	.79	.45
Mean..	1.00	.99	.99	.99	.99	.98	.98	*.98*	.99	1.00	1.00	1.01	.99	.97	.95	.94	.94	.94	.94	*.97*	.98	.98	.98	.99	.98	1.08	.88

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

January, 1893.]

Day.	0–1h a. m.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Noon.	Noon–1h p. m.
1	NE. 2	NE. 4	NE. 3	*NE.* 5	NE. 2	NE. 2	NW. 2	NE. 5	NW. 18	SW. 9	*SE.* 4	NE. 2	E. 4
2	NW. 33	NW. 26	NW. 18	NE. 13	N. 10	NE. 12	N. 9	N. 8	NW. 19	NW. 22	*NW.* 11	NE. 9	N. 13
3	N. 6	N. 9	N. 10	N. 9	N. 8	N. 6	N. 3	NE. 4	SE. 4	N. 8	NW. 19	NW. 28	NW. 24
4	NW. 31	NW. 19	N. 19	NW. 31	NW. 14	W. 3	NE. 3	NE. 6	NW. 16	NE. 4	NW. 7	N. 7	NW. 18
5	N. 7	N. 6	N. 8	N. 7	N. 8	N. 8	N. 9	N. 9	N. 6	N. 7	N. 7	N. 3	S. 3
6	N. 10	N. 8	N. 8	N. 6	N. 7	N. 10	N. 12	N. 12	N. 12	N. 9	N. 9	NE. 6	S. 5
7	N. 8	*N.* 4	N. 6	*N.* 7	N. 6	N. 7	N. 8	N. 10	N. 9	N. 8	N. 8	N. 17	NE. 22
8	N. 9	N. 9	N. 10	N. 10	N. 9	N. 4	N. 4	NE. 4	NE. 3	SW. 3	SE. 4	SE. 5	NW. 16
9	N. 6	N. 5	N. 7	N. 8	N. 14	NW. 20	W. 20	SE. 8	SE. 5	*SW.* 3	SE. 7	SE. 8	SE. 9
10	NE. 4	N. 6	N. 7	N. 8	N. 5	N. 6	W. 7	NW. 4	SW. 6	SW. 3	SW. 7	SW. 10	SW. 11
11	NW. 30	NW. 39	NW 34	NW. 35	NW. 39	NW. 31	N. 26	N. 22	N. 21	N. 14	NW. 20	NW. 27	NW. 27
12	N. 6	*S.* 4	N. 3	N. 3	SE. 5	SE. 6	SE. 4	N. 3	E. 3	SW. 6	SW. 6	SE. 11	SE. 15
13	NE. 7	S. 8	S. 8	S. 5	E. 8	E. 6	SE. 6	E. 10	E. 8	W. 5	SW. 8	SE. 8	*NE.* 12
14	NW. 33	NW. 29	NW. 21	NW. 19	NE. 20	NE. 14	NE. 20	NE. 19	NE. 17	N. 21	NE. 21	N. 23	N. 26
15	E. 8	E. 3	E. 2	*E.* 1	*E.* 2	N. 2	N. 5	N. 6	N. 5	N. 5	N. 5	*N.* 2	*S.* 4
16	N. 7	N. 5	N. 6	N. 6	N. 5	N. 3	N. 7	N. 4	N. 5	N. 5	N. 5	N. 3	E. 2
17	N. 4	N. 7	N. 6	N. 7	N. 8	N. 8	N. 13	N. 14	N. 22	N. 24	N. 28	N. 29	N. 25
18	N. 6	N. 7	N. 5	N. 9	N. 8	N. 8	N. 7	N. 8	N. 8	N. 9	N. 5	NE. 3	E. 2
19	N. 7	N. 10	N. 7	N. 9	N. 8	N. 8	N. 7	N. 6	N. 7	N. 8	N. 3	*SE.* 3	S. 5
20	N. 10	N. 8	N. 10	N. 11	N. 10	N. 9	N. 9	N. 7	N. 6	N. 8	N. 5	NE. 4	NE. 3
21	N. 11	N. 11	N. 11	N. 12	N. 11	N. 10	N. 12	N. 10	N. 10	N. 9	N. 6	N. 2	S. 3
22	N. 10	N. 11	N. 9	N. 11	N. 10	N. 12	N. 13	N. 13	N. 13	N. 11	N. 10	N. 7	N. 3
23	N. 10	N. 3	N. 9	N. 10	N. 9	N. 8	N. 10	N. 9	N. 8	N. 8	N. 8	NE. 4	SE. 8
24	N. 5	N. 9	N. 8	NW. 19	NE. 7	N. 8	N. 6	N. 8	N. 9	N. 7	N. 6	N. 4	S. 9
25	N. 10	N. 10	N. 8	N. 9	N. 7	N. 5	N. 6	W. 4	NW. 3	NW. 4	NW. 4	W. 4	W. 8
26	N. 5	*SE.* 5	SE. 4	SE. 9	SE. 6	W. 2	S. 4	NW. 2	NW. 3	E. 3	N. 5	NE. 3	E. 5
27	W. 7	NE. 7	NE. 14	NE. 8	N. 9	NE. 4	SW. 8	SE. 7	E. 5	E. 11	E. 13	SW. 20	W. 36
28	N. 17	W. 33	W. 17	W. 16	W. 31	SW. 30	SW. 25	N. 21	W. 12	W. 8	W. 23	NW. 25	NW. 13
29	E. 3	*N.* 2	N. 4	N. 4	N. 6	N. 7	N. 7	N. 7	N. 6	NE. 3	*S.* 4	S. 5	E. 8
30	W. 23	W. 34	W. 21	E. 8	SE. 6	SE. 7	S. 3	S. 7	E. 12	E 10	S. 14	S. 22	S. 24
31	SW. 53	SW. 30	W. 25	S. 25	S. 25	S. 29	S. 26	SW. 18	W. 29	W. 32	W. 38	W. 37	SW. 34
Mean..	N. 12.6	N. 12.1	N. 10.6	N. 11.0	N. 10.4	N. 9.5	N. 9.7	N. 8.9	N. 10.0	N. 9.3	N. 10.4	N. 11.0	S. 12.8

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [January, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	21	22	23	23	22	24	34	*42*	32	33	34	39	44	*45*	45	47	46	45	38	*34*	37	42	47	46	36.0	46	22
2	39	40	41	39	44	42	37	*36*	43	*44*	42	42	44	*45*	46	46	46	45	41	*36*	32	32	29	28	40.0	48	32
3	25	26	27	25	27	31	32	*36*	37	48	54	56	58	*59*	60	58	59	57	54	*53*	54	56	55	54	45.9	60	24
4	55	53	55	56	53	52	51	*53*	52	53	57	60	62	*64*	64	63	65	62	53	*48*	42	39	41	39	53.8	66	38
5	38	36	36	35	34	35	34	*36*	32	33	38	49	52	*53*	54	55	55	54	46	*43*	40	*34*	34	33	41.2	55	31
6	33	36	37	40	38	42	45	*44*	37	38	45	52	56	*55*	54	49	48	45	41	*39*	36	34	33	31	42.0	60	31
7	32	32	33	33	30	29	25	*26*	27	25	33	36	36	*36*	37	38	37	37	37	*34*	29	26	25	23	31.5	41	23
8	21	20	20	19	21	23	28	*29*	32	39	42	45	56	*58*	59	59	60	57	54	*45*	45	44	39	46	40.0	61	19
9	49	48	48	48	50	50	50	*40*	38	37	40	42	42	*43*	44	45	46	47	42	*36*	33	32	36	35	42.5	49	32
10	39	39	45	42	44	49	43	*45*	46	48	47	54	60	*54*	57	60	60	60	55	*54*	54	53	51	51	50.4	64	32
11	48	46	42	39	37	32	31	*31*	31	32	36	37	38	*38*	39	36	32	28	26	*25*	24	21	20	19	32.8	41	24
12	18	16	14	14	16	14	12	*12*	11	15	27	27	32	*36*	40	43	44	42	40	*35*	35	33	31	29	26.5	43	11
13	29	28	28	26	34	31	41	*35*	33	34	42	47	44	*48*	49	52	52	53	45	*43*	43	41	39	40	39.9	53	25
14	39	38	36	30	26	26	24	*23*	23	22	23	25	26	*28*	28	28	26	24	22	*21*	18	16	16	14	25.1	32	20
15	14	14	14	14	13	10	8	*8*	9	10	16	19	22	*24*	25	27	26	25	22	*20*	17	16	13	11	16.5	26	6
16	11	10	12	12	12	12	12	*12*	13	*13*	17	22	25	*26*	27	27	29	28	26	*22*	20	19	20	21	18.7	32	12
17	21	21	22	22	22	24	26	*26*	25	25	26	27	28	*28*	28	28	28	28	24	*22*	17	15	15	12	23.3	32	20
18	10	9	8	10	8	7	6	*8*	7	10	19	22	25	27	29	32	34	35	31	*27*	22	20	19	19	18.5	37	6
19	17	17	17	16	15	17	18	*18*	17	18	23	29	30	*32*	32	34	35	34	30	*25*	22	20	18	17	23.0	37	13
20	16	15	14	14	14	14	16	*20*	19	23	30	39	40	*40*	43	44	45	44	37	*33*	25	25	22	20	27.2	46	12
21	18	17	17	18	18	15	17	*15*	15	18	28	36	38	*41*	43	45	45	44	40	*31*	28	24	22	22	27.3	46	14
22	20	23	22	19	19	19	18	*22*	19	22	34	43	47	*49*	49	49	49	48	41	*32*	29	30	27	28	31.6	51	18
23	26	26	29	28	31	29	28	*24*	25	*26*	36	42	45	*46*	46	47	46	46	45	*36*	27	31	27	26	34.1	48	24
24	29	29	48	45	47	39	40	*39*	37	40	47	52	53	*53*	54	54	54	52	43	*38*	35	32	30	28	42.4	54	30
25	29	31	30	32	35	38	36	*39*	36	43	48	53	53	*56*	57	57	57	55	47	*44*	43	36	31	26	42.2	59	26
26	23	25	22	18	19	19	19	*19*	18	18	18	18	20	*26*	31	34	33	27	23	*26*	23	25	21	20	22.7	36	18
27	22	27	34	33	36	36	39	*38*	42	48	52	55	54	*53*	52	53	52	52	48	*50*	46	50	49	50	44.6	54	17
28	54	54	53	53	52	50	41	*37*	39	41	43	44	47	*46*	46	47	47	46	43	*39*	40	41	39	22	44.3	48	36
29	19	18	17	16	16	14	15	*16*	16	19	27	34	43	*49*	50	52	51	49	47	*46*	43	41	38	39	32.3	52	14
30	44	45	43	40	34	33	29	*25*	23	*25*	27	30	29	*31*	33	35	37	38	39	*39*	41	57	57	55	37.0	39	22
31	55	52	52	51	49	46	48	*50*	52	51	50	52	54	*55*	56	56	57	55	52	*51*	40	27	24	20	48.1	57	39
Mean..	29.5	29.5	30.3	29.4	29.5	29.1	29.1	29.2	28.6	30.7	35.5	39.6	42.0	43.4	44.4	45.2	45.2	44.0	39.7	36.4	33.5	32.6	31.2	29.8	34.9	47.5	22.3

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[January, 1893.

Day.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Mid.	Max.	Direction
1	*E.* 5	E. 4	E. 3	E. 4	*SE.* 5	SE. 3	NE. 4	E. 7	SW. 6	N. 14	NW. 34	48	NW.
2	N. 13	NE. 13	NE. 14	NE. 11	NE. 9	NE. 5	N. 4	NE. 3	N. 8	N. 0	N. 9	37	NW.
3	NW. 27	NW. 26	NW. 29	NW. 32	NW. 29	NW. 32	NW. 35	NW. 36	NW. 37	NW. 28	NW. 32	42	NW.
4	NW. 17	NW. 12	W. 10	W. 5	W. 5	*SW.* 3	N. 7	N. 8	N. 7	N. 9	N. 6	35	NW.
5	SW. 4	SE. 6	SE. 7	E. 6	S. 6	SW. 4	N. 5	N. 8	N. 8	N. 10	N. 10	12	N.
6	*S.* 6	NE. 15	NE. 27	N. 24	N. 21	N. 17	N. 8	N. 7	N. 6	N. 6	N. 6	30	N.
7	N. 23	NE. 21	NE. 20	N. 23	*N.* 22	N. 15	N. 5	N. 2	N. 3	N. 3	N. 5	25	NE.
8	NW. 24	NW. 20	NW. 22	NW. 18	NW. 18	N. 8	NE. 7	N. 4	N. 5	N. 5	NW. 4	29	NW.
9	SE. 8	SE. 8	SE. 6	SE. 4	S. 5	E. 2	NE. 4	N. 7	N. 7	N. 5	N. 5	24	NW.
10	SE. 9	SE. 7	SE. 9	SE. 9	E. 11	NW. 17	N. 11	N. 19	NW. 18	N. 21	NW. 20	37	NW.
11	NW. 30	NW. 32	NW. 31	*NE.* 23	NE. 20	N. 20	N. 15	N. 13	N. 13	N. 15	N. 9	46	NW.
12	SE. 12	SE. 10	NW. 22	NW. 27	NW. 21	NW. 21	NW. 18	SE. 7	SE. 8	SE. 5	NE. 6	34	NW.
13	S. 13	S. 10	S. 13	S. 11	W. 14	NW. 31	NW. 15	NW. 26	NW. 39	NW. 45	NW. 43	51	NW.
14	NE. 24	NE. 22	NE. 26	NE. 19	NE. 16	NE. 10	NE. 4	*SE.* 3	SE. 6	SE. 3	E. 8	38	NW.
15	S. 6	S. 6	S. 6	S. 5	S. 8	S. 11	S. 10	*E.* 6	SE. 3	N. 5	N. 6	12	S.
16	E. 5	E. 4	*E.* 3	S. 5	SE. 6	SE. 9	SE. 9	S. 7	S. 2	SE. 3	N. 2	13	SE.
17	N. 25	NE. 23	NE. 22	NE. 17	NE. 13	NE. 8	NE. 4	NE. 3	N. 6	N. 7	N. 5	32	N.
18	SE. 2	SE. 2	S. 3	E. 3	SW. 2	SW. 4	E. 4	N. 3	N. 6	N. 8	N. 8	13	N.
19	SE. 6	SE. 6	E. 5	SE. 3	S. 4	SW. 5	SW. 3	N. 5	N. 7	N. 7	N. 7	13	N.
20	SE. 4	SE. 5	S. 4	S. 4	SW. 5	*NW.* 5	N. 6	N. 8	N. 9	N. 9	N. 10	13	N.
21	SE. 3	SE. 4	S. 5	E. 4	S. 6	S. 5	N. 3	N. 8	N. 8	N. 9	N. 7	14	N.
22	SE. 7	SE. 6	*SE.* 6	S. 7	S. 8	S. 6	S. 3	N. 5	N. 4	N. 8	N. 12	14	N.
23	SE. 11	S. 11	SE. 12	SE. 10	SE. 9	*N.* 6	N. 2	N. 4	N. 12	N. 7	N. 7	17	N.
24	S. 14	S. 16	S. 14	S. 17	S. 17	SE. 15	E. 7	N. 5	N. 9	N. 10	N. 11	28	NW.
25	*N.* 4	S. 8	S. 9	S. 9	SE. 6	E. 7	N. 4	SW. 5	S. 2	S. 3	N. 4	14	S.
26	*SE.* 5	SE. 5	S. 5	S. 8	S. 7	S. 6	SE. 3	N. 3	E. 2	N. 3	N. 5	12	SE.
27	W. 24	NW. 24	NW. 23	NW. 19	NW. 15	NE. 7	N. 12	E. 9	E. 17	W. 12	*S.* 14	42	W.
28	W. 15	W. 20	W. 11	SW. 15	SW. 13	W. 13	W. 10	SW. 8	S. 7	NW. 4	SE. 12	40	W.
29	SE. 11	SW. 28	SW. 30	SW. 25	W. 26	W. 24	W. 22	W. 11	N. 4	N. 4	W. 6	39	SW.
30	S. 23	S. 28	SE. 26	S. 21	S. 14	E. 5	W. 8	W. 24	W. 49	W. 51	SW. 52	57	SW.
31	W. 39	W. 33	W. 30	SW. 20	SW. 23	W. N. S.) 20	W. 19	W. 22	E. 19	E. 9	E. 9	58	SW.
Mean..	SE. 13.5	SE. 14.0	S. 14.6	S. 13.2	S. 12.4	SW. NW.) 11.1	N. 8.7	N. 9.2	N. 10.9	N. 10.8	N. 12.1	.....	.....

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES.+

NOTE.—All eye readings are printed in *italics*.

February, 1893.] [Seventy-fifth

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.81	.84	.87	.88	.91	.91	.92	*.93*	.94	.96	.98	.98	.96	*.94*	.90	.88	.84	.82	.81	*.79*	.78	.75	.73	.70	.87	.98	.70
2	.70	.68	.67	.67	.66	.65	.65	*.65*	.66	.67	.68	.72	.74	*.76*	.77	.79	.82	.85	.88	*.90*	.95	1.00	1.03	1.09	.78	1.09	.65
3	1.17	1.22	1.25	1.26	1.28	1.28	1.29	*1.31*	1.32	1.33	1.33	1.31	1.29	*1.26*	1.23	1.21	1.20	1.20	1.19	*1.18*	1.17	1.16	1.15	1.14	1.24	1.33	1.14
4	1.13	1.11	1.10	1.09	1.09	1.08	1.08	*1.07*	1.06	1.03	1.03	1.01	1.00	.97	.94	.93	.90	.89	.88	.87	.86	.84	.83	.82	.98	1.13	.82
5	.80	.80	.80	.80	.77	.75	.71	*.70*	.70	.72	.71	.72	.71	*.71*	.70	.68	.68	.67	.69	.72	.72	.71	.70	.74	.72	.80	.67
6	.75	.77	.78	.80	.83	.87	.89	*.94*	.98	*1.00*	1.00	1.00	1.00	*1.00*	.98	.98	1.00	1.02	1.06	*1.10*	1.13	1.15	1.16	1.18	.97	1.18	.75
7	1.20	1.21	1.22	1.24	1.24	1.24	1.27	*1.29*	1.32	1.33	1.35	1.37	1.36	*1.35*	1.34	1.33	1.32	1.32	1.33	*1.33*	1.32	1.32	1.30	1.28	1.30	1.37	1.20
8	1.25	1.23	1.20	1.16	1.13	1.12	1.08	*1.02*	1.03	1.02	1.01	.98	.96	*.91*	.87	.83	.78	.73	.70	*.68*	.67	.64	.57	*.56*	.92	1.25	.56
9	.59	.61	.60	.60	.60	.60	.63	*.64*	.68	.69	.72	.74	.77	*.77*	.77	.77	.78	.80	.83	*.85*	.90	.92	.94	.94	.74	.94	.59
10	.94	.92	.93	.94	.94	.94	.95	*.95*	.96	.97	.97	.97	.97	*.95*	.94	.93	.93	.93	.94	*.95*	.96	.95	.95	.95	.95	.97	.92
11	.95	.95	.96	.96	.96	.97	.98	*1.01*	1.05	1.07	1.08	1.09	1.09	*1.08*	1.07	1.03	1.06	1.06	1.07	*1.08*	1.08	1.08	1.08	1.09	1.04	1.09	.95
12	1.09	1.08	1.06	1.05	1.03	1.01	.98	*.97*	.97	.95	.93	.92	.90	*.85*	.81	.78	.75	.72	.70	*.69*	.68	.67	.65	.63	.87	1.09	.63
13	.60	.59	.58	.56	.54	.51	.49	*.47*	.47	.47	.49	.50	.50	*.49*	.48	.46	.49	.47	.57	*.60*	.62	.66	.67	.69	.54	.69	.46
14	.72	.74	.77	.80	.82	.84	.87	*.90*	.92	.97	1.01	1.04	1.06	*1.04*	1.03	1.02	1.03	1.03	1.05	*1.08*	1.10	1.12	1.12	1.12	.97	1.12	.72
15	1.13	1.13	1.12	1.10	1.08	1.07	1.07	*1.06*	1.06	1.06	1.05	1.05	1.03	*1.01*	1.00	.97	.97	.97	.97	*1.02*	1.04	1.04	1.05	1.06	1.04	1.13	.97
16	1.06	1.06	1.05	1.05	1.03	1.03	1.03	*1.04*	1.04	1.04	1.02	1.01	.99	*.97*	.95	.93	.93	.92	.93	*.97*	.98	1.00	.99	1.00	1.00	1.06	.92
17	1.01	1.02	1.02	1.03	1.05	1.06	1.07	*1.08*	1.11	1.13	1.15	1.16	1.16	*1.16*	1.15	1.14	1.15	1.16	1.18	*1.20*	1.20	1.21	1.22	1.22	1.13	1.22	1.01
18	1.23	1.25	1.25	1.26	1.27	1.27	1.28	*1.28*	1.28	1.28	1.28	1.27	1.25	*1.24*	1.22	1.20	1.18	1.18	1.19	*1.23*	1.22	1.22	1.22	1.22	1.24	1.28	1.18
19	1.22	1.21	1.20	1.18	1.17	1.15	1.15	*1.14*	1.13	1.13	1.12	1.09	1.06	*1.03*	1.00	.97	.94	.93	.93	*.92*	.91	.89	.88	.87	1.05	1.22	.87
20	.87	.87	.90	.92	.93	.95	.98	*1.00*	1.02	*1.05*	1.06	1.08	1.08	*1.08*	1.08	1.07	1.07	1.06	1.06	*1.07*	1.07	1.07	1.08	1.08	1.02	1.08	.87
21	1.08	1.07	1.06	1.05	1.05	1.05	1.06	*1.07*	1.08	1.09	1.10	1.11	1.11	*1.08*	1.07	1.05	1.03	1.02	1.03	*1.04*	1.05	1.05	1.04	1.03	1.06	1.11	1.02
22	1.00	.98	.96	.94	.92	.89	.88	*.87*	.86	.85	.83	.80	.78	*.78*	.77	.76	.76	.77	.77	*.78*	.80	.82	.86	.88	.85	1.00	.76
23	.93	.96	.96	.97	.97	.96	.97	*.97*	.96	.95	.96	.95	.93	*.90*	.85	.82	.81	.81	.86	*.88*	.91	.92	.92	.92	.92	.97	.81
24	.92	.93	.93	.92	.90	.88	.88	*.88*	.89	.92	.93	.94	.96	*.97*	.98	.98	.99	1.01	1.00	*1.00*	1.01	1.00	.99	.98	.95	1.01	.88
25	.97	.95	.95	.93	.91	.90	.89	*.87*	.86	.85	.82	.81	.76	*.74*	.70	.66	.62	.61	.61	*.62*	.64	.67	.68	.68	.78	.97	.61
26	.68	.67	.65	.64	.64	.64	.64	*.64*	.64	.64	.63	.61	.58	*.56*	.53	.50	.50	.48	.48	*.51*	.52	.53	.54	.58	.58	.68	.48
27	.58	.58	.58	.58	.58	.58	.59	*.61*	.63	*.65*	.68	.70	.69	*.69*	.69	.68	.70	.71	.74	*.76*	.79	.79	.81	.82	.68	.82	.58
28	.82	.81	.82	.81	.81	.81	.81	*.82*	.83	.84	.84	.83	.83	*.82*	.82	.80	.78	.78	.80	*.82*	.85	.87	.88	.90	.82	.90	.78
Mean..	.94	.94	.94	.94	.93	.93	.93	*.94*	.94	.95	.96	.96	.95	*.93*	.92	.90	.89	.89	.90	*.92*	.93	.93	.93	.94	.93	1.05	.80

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

February, 1893.]

Day.	0–1h a.m.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Noon.	Noon–1h p.m.
1	S. 7	S. 8	S. 11	S. 11	S. 6	S. 5	SW. 3	SW. 1	SW. 1	S. 9	S. 11	*SE.* 9	S. 11
2	S. 7	SE. 3	S. 4	SE. 4	N. 5	N. 7	SE. 9	SE. 10	SE. 13	E. 14	E. 11	E. 13	SE. 13
3	S. 13	SE. 7	S. 8	S. 3	S. 3	N. 4	S. 10	S. 10	SE. 9	E. 5	*S.* 6	S. 7	S. 13
4	N. 9	N. 8	N. 7	N. 7	N. 7	N. 6	N. 9	N. 9	N. 6	NW. 5	W. 9	S. 6	SW. 5
5	NW. 24	NW. 35	W. 17	SW. 6	NW. 14	NW. 25	W. 20	W. 29	W. 24	W. 23	E. 10	E. 13	NW. 15
6	N. 32	N. 31	N. 33	N. 25	N. 28	N. 15	SE. 6	E. 6	S. 4	N. 2	E. 2	E. 2	E. 6
7	SE. 15	SE. 15	SE. 2	S. 2	S. 2	S. 4	N. 5	N. 7	N. 6	N. 10	N. 7	NE. 5	SW. 3
8	SE. 15	SE. 13	W. 3	E. 8	*S.* 7	W. 4	NW. 3	NE. 4	NE. 6	*N.* 2	*W.* 2	*W.* 3	SE. 5
9	W. 46	W. 30	W. 28	W. 22	W. 24	W. 24	W. 24	NE. 23	N. 21	N. 11	NW. 22	NW. 35	NW. 36
10	SE. 13	S. 19	S. 23	S. 21	SE. 22	SE. 21	SE. 17	SE. 17	S. 16	S. 13	S. 10	SE. 7	SE. 9
11	S. 10	S. 5	N. 5	N. 5	*NW.* 4	NW. 4	N. 5	NE. 4	NE. 8	NE. 14	N. 9	N. 5	NE. 1
12	N. 7	N. 5	N. 6	N. 6	N. 6	N. 7	N. 6	N. 6	N. 5	N. 6	N. 4	*W.* 2	*SE.* 3
13	N. 8	N. 6	N. 5	N. 6	N. 7	N. 6	N. 6	N. 6	N. 7	N. 4	N. 5	N. 17	E. 16
14	N. 27	N. 26	N. 26	N. 26	N. 21	N. 18	N. 17	N. 16	N. 15	N. 11	NE. 4	E. 5	SE. 6
15	N. 6	N. 9	N. 12	N. 11	N. 12	N. 12	N. 12	N. 5	N. 5	N. 5	*NE.* 4	E. 1	SW. 3
16	N. 9	N. 9	N. 10	N. 11	N. 13	N. 10	N. 6	N. 10	N. 11	N. 12	N. 12	N. 12	N. 16
17	N. 9	N. 10	N. 10	N. 8	N. 9	N. 11	N. 12	N. 13	N. 4	N. 7	N. 4	*N.* 5	SE. 10
18	N. 5	N. 7	N. 9	N. 8	N. 8	N. 8	N. 7	N. 8	N. 7	N. 8	N. 5	SE. 5	SE. 9
19	N. 9	N. 8	N. 6	*N.* 6	N. 6	NE. 7	N. 7	N. 5	N. 7	N. 8	N. 5	NE. 3	SE. 5
20	*NE.* 6	N. 8	N. 21	N. 23	N. 24	N. 30	N. 35	N. 36	N. 34	N. 36	N. 36	N. 37	N. 30
21	N. 5	N. 6	N. 7	N. 6	SE. 4	S. 4	S. 8	S. 4	N. 4	NE. 5	*N.* 3	S. 6	SE. 7
22	N. 7	*N.* 6	*N.* 4	N. 5	N. 5	N. 6	N. 6	*NE.* 4	N. 5	*E.* 4	E. 7	*W.* 7	W. 30
23	*NW.* 22	NW. 26	NW. 24	NW. 40	NW. 42	NW. 34	NW. 32	NW. 29	NW. 26	*SE.* 12	SE. 16	SE. 15	SE. 18
24	NW. 19	NW. 17	NW. 15	W. 14	W. 17	W. 23	NW. 20	N. *11	W. *7	E. *6	N. *9	*NE.* *9	N. 16
25	N. 8	*N.* 6	N. 6	N. 5	N. 6	N. 6	N. 6	N. 6	N. 8	NE. 7	S. 4	SE. 5	S. 9
26	NW. 14	*W.* 10	NW. 10	NW. 13	NW. 8	W. 3	SW. 4	*SW.* 3	E. 5	*N.* 3	*SW.* 4	SW. 8	SE. 16
27	N. 28	N. 24	N. 24	N. 20	N. 18	N. 18	N. 20	N. 21	N. 24	N. 16	N. 17	*N.* 8	S. 7
28	NW. 4	*NE.* 4	SE. 6	NW. 4	N. 3	N. 4	NE. 4	N. 3	N. 3	SW. 3	NW. 3	NW. 16	NW. 33
Mean..	N. 13.7	N. 12.9	N. 12.2	N. 11.6	N. 11.8	N. 11.6	N. 11.3	N. 10.9	N. 10.4	N. 9.3	N. 8.4	N. 9.3	SE. 12.5

*Interpolated.

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [February, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	16	15	12	11	10	10	10	*10*	12	9	8	9	9	*10*	9	10	10	6	3	*3*	—1	—2	—3	—3	7.5	12	3
2	—3	—2	—2	—3	—2	15	25	28	29	31	34	32	35	*37*	38	38	39	38	36	*36*	36	35	33	25	25.3	39	—3
3	22	19	18	16	14	14	16	*15*	14	15	16	19	22	*24*	26	28	30	30	29	*26*	23	23	21	20	20.8	32	13
4	19	19	21	20	21	21	24	*24*	26	26	31	33	39	*43*	44	48	50	52	48	*48*	47	47	48	49	35.3	52	19
5	50	51	48	48	49	48	54	*53*	52	48	50	52	55	*56*	56	54	54	52	50	*46*	45	46	34	20	48.8	59	45
6	23	24	24	25	26	25	19	*18*	17	*19*	23	25	27	*30*	30	31	32	31	29	*26*	24	24	24	22	24.9	32	18
7	20	18	17	15	14	11	10	*10*	10	14	19	24	28	*30*	31	32	32	32	30	*25*	26	25	27	24	21.8	33	9
8	24	24	26	27	23	22	18	*16*	16	20	25	29	34	*40*	43	46	48	50	48	*47*	51	52	53	52	34.8	54	16
9	51	50	49	49	48	48	36	*34*	33	34	42	44	43	*44*	45	45	46	45	38	*37*	35	32	32	20	41.1	46	32
10	25	25	24	23	23	23	22	*21*	20	20	21	22	23	*26*	26	28	30	30	29	*27*	25	23	28	27	24.6	31	21
11	26	25	24	23	24	25	20	*22*	22	23	25	28	31	*30*	30	29	29	29	29	*29*	28	23	21	19	25.6	32	19
12	19	18	18	19	18	18	16	*17*	19	22	24	29	33	*33*	33	36	38	39	36	*34*	31	28	27	25	26.2	40	15
13	25	27	24	26	25	24	24	*26*	30	*32*	36	34	32	*29*	30	32	29	27	24	*22*	20	19	16	17	26.2	36	22
14	18	15	15	15	12	12	9	*9*	9	10	12	14	15	*20*	22	25	24	22	21	*20*	17	15	13	10	15.6	25	9
15	10	8	10	9	9	12	17	*10*	9	16	25	32	37	*39*	42	41	41	40	38	*30*	25	23	20	18	23.4	42	7
16	21	16	19	16	24	27	22	*18*	18	30	39	47	49	*49*	50	51	52	49	48	*42*	35	37	35	30	34.3	52	16
17	32	29	30	32	32	31	30	*30*	27	32	37	40	40	*40*	42	42	42	42	41	*37*	31	29	25	25	34.1	43	28
18	25	22	23	24	24	24	22	*19*	18	23	32	34	37	*39*	41	42	43	43	40	*36*	35	26	26	25	30.0	44	19
19	22	23	23	25	29	28	26	*25*	22	27	36	42	45	*47*	48	49	50	49	47	*43*	41	36	37	37	35.7	52	19
20	36	40	37	35	33	32	32	*32*	32	32	32	32	34	*36*	37	39	41	42	41	*37*	34	31	26	25	34.5	42	32
21	22	20	20	21	23	25	23	*21*	20	23	30	32	36	*41*	45	50	51	52	49	*44*	36	32	31	29	32.3	53	20
22	30	31	32	33	35	33	37	*38*	38	40	50	57	56	*55*	54	51	50	49	46	*42*	38	36	33	30	41.4	57	28
23	28	27	27	26	25	25	26	*27*	30	26	28	31	34	*36*	40	43	41	40	35	*34*	31	30	29	27	31.1	44	26
24	27	25	25	23	23	23	24	*25*	21	22	25	26	22	*22*	21	20	19	18	19	*18*	15	10	10	7	20.4	27	18
25	10	9	9	10	8	11	12	*13*	12	17	26	32	36	*38*	37	38	43	44	42	*42*	38	35	33	31	26.1	46	8
26	31	29	30	30	30	27	24	*22*	21	21	24	26	30	*32*	32	33	34	35	35	*34*	32	25	21	17	28.1	37	21
27	15	14	11	12	11	10	10	*9*	7	6	7	10	15	*19*	22	21	22	23	24	*22*	18	17	17	13	14.8	25	9
28	13	13	12	10	9	8	6	7	8	13	23	28	30	*32*	33	34	36	35	34	*32*	30	31	26	26	22.0	36	6
Mean..	23.5	22.6	22.4	22.1	22.1	22.6	21.9	21.4	21.1	23.2	27.9	30.8	33.1	34.9	36.0	37.0	37.7	37.3	35.3	32.8	30.1	28.1	26.5	24.0	28.1	40.1	17.7

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[February, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	S.	10	S.	11	S.	12	S.	15	*S.*	19	S.	20	S.	18	S.	16	S.	14	S.	12	S.	11	24	S.
2	NW.	13	W.	13	NW.	18	NW.	25	NW.	20	N.	19	NW.	37	W.	35	W.	24	SW.	10	SE.	12	43	NW.
3	S.	12	S.	10	S.	6	E.	4	SE.	2	E.	3	W.	3	N.	4	N.	7	N.	7	N.	8	20	S.
4	SE.	6	SE.	6	SE.	6	E.	11	E.	11	S.	12	SW.	13	W.	17	*NW.*	19	NW.	16	NW.	12	32	NW.
5	NW.	13	W.	13	W.	25	W.	32	W.	40	W.	45	W.	31	SW.	21	S.	14	S.	18	N.	28	52	W.
6	SE.	7	SE.	14	SE.	17	SE.	19	SE.	21	SE.	19	SE.	15	SE.	8	S.	8	S.	13	S.	17	36	N.
7	*SW.*	5	SE.	7	S.	8	S.	11	SE.	11	S.	13	SE.	9	SE.	9	SE.	8	SE.	13	S.	7	16	SE.
8	SE.	3	S.	5	S.	7	S.	5	NW.	6	E.	8	E.	9	NE.	10	W.	27	W.	43	W.	48	54	W.
9	NW.	32	NW.	27	NW.	25	NW.	22	NW.	22	*W.*	13	N.	12	*S.*	5	NE.	9	N.	7	S.	17	48	W.
10	SE.	7	SE.	7	SE.	9	S.	8	SE.	7	S.	7	SE.	5	SE.	2	N.	4	NW.	4	S.	5	30	S.
11	E.	6	S.	13	S.	16	S.	14	SE.	11	SE.	8	S.	5	SE.	3	SE.	4	N.	4	N.	5	17	S.
12	S.	5	*SW.*	3	*S.*	3	SE.	6	N.	2	N.	2	E.	6	*NE.*	4	N.	4	N.	4	N.	7	10	E.
13	N.	10	N.	15	N.	15	N.	17	N.	20	N.	22	N.	26	N.	25	N.	30	N.	33	N.	29	36	N.
14	SE.	3	N.	10	N.	14	N.	17	N.	19	N.	18	N.	13	N.	13	N.	6	N.	4	N.	3	32	N.
15	SW.	3	S.	4	S.	6	S.	8	SE.	10	SE.	6	S.	3	S.	4	*N.*	5	N.	9	N.	9	15	N.
16	NE.	21	NE.	23	NE.	22	NE.	18	NE.	19	NE.	21	NE.	15	N.	7	N.	6	N.	8	N.	8	27	NE.
17	S.	15	S.	15	S.	16	S.	15	S.	15	S.	15	SE.	9	SE.	4	SE.	3	*SE.*	5	N.	8	18	S.
18	SE.	10	SE.	10	SE.	11	SE.	9	SE.	10	SE.	12	SE.	6	N.	2	*N.*	5	N.	7	N.	6	14	SE.
19	*S.*	9	*SE.*	10	S.	10	SE.	8	SE.	8	SE.	6	*E.*	4	*SE.*	2	N.	4	N.	6	N.	4	12	N.
20	N.	33	N.	31	N.	29	N.	27	N.	22	N.	17	NE.	14	NE.	9	*W.*	3	N.	4	N.	6	44	N.
21	S.	4	S.	4	S.	4	S.	5	*S.*	6	SE.	10	SE.	5	*SE.*	3	*NE.*	6	N.	6	N.	9	12	SE.
22	W.	22	NW.	21	W.	25	W.	28	SW.	18	NW.	11	NW.	8	NW.	17	N.	21	*N.*	24	NW.	28	37	W.
23	SE.	12	SE.	*9	SE.	*6	N.	17	NW.	21	NW.	23	NW.	26	NW.	23	NW.	23	NW.	21	NW.	23	48	NW.
24	N.	17	N.	17	N.	19	N.	18	N.	*10	N.	*6	N.	*6	N.	6	N.	6	N.	8	N.	7	27	W.
25	*S.*	11	S.	11	SE.	7	SE.	9	W.	15	SW.	16	W.	19	NW.	14	NW.	13	NW.	14	NW.	16	27	W.
26	SE.	14	SE.	14	S.	16	S.	17	SE.	19	S.	14	S.	6	N.	20	N.	24	N.	27	N.	31	35	N.
27	E.	5	SE.	8	S.	9	*SW.*	11	SW.	7	NW.	16	NW.	14	NW.	9	SW.	5	NW.	3	NW.	4	37	N.
28	NW.	29	NW.	19	W.	16	NW.	11	NW.	17	W.	14	*NW.*	10	*S.*	6	SW.	6	SW.	7	S.	4	40	NW.
Mean..	SE.	12.0	S.	12.5	S.	13.5	S.	14.5	SE.	14.6	S. N. SE.	14.1	SE.	12.4	N. SE.	10.6	N.	11.0	N.	12.0	N.	13.3	.....	.....

* Interpolated.

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

NOTE.—All eye readings are printed in *italics*.

March, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean	Max.	Min.
1	.90	.91	.93	.93	.92	.92	.92	.92	.93	.95	.94	.93	.92	.91	.88	.86	.83	.83	.81	.82	.82	.83	.84	.84	.89	.95	.81
2	.84	.84	.83	.85	.86	.85	.86	.86	.87	.86	.87	.85	.84	.82	.80	.79	.79	.78	.78	.81	.83	.83	.85	.83	.83	.87	.78
3	.84	.85	.87	.87	.88	.89	.91	.94	.97	.99	1.01	1.03	1.06	1.07	1.08	1.11	1.13	1.15	1.19	1.18	1.21	1.22	1.23	1.24	1.04	1.24	.84
4	1.25	1.25	1.25	1.24	1.23	1.22	1.22	1.22	1.20	1.18	1.17	1.16	1.12	1.10	1.06	1.04	1.00	1.00	1.00	.99	.99	.99	.98	.97	1.12	1.25	.97
5	.96	.97	.97	.97	.96	.96	.97	.98	.98	.99	.99	.98	.97	.94	.92	.89	.88	.89	.91	.93	.94	.96	.97	.96	.95	.99	.88
6	.95	.93	.93	.91	.90	.90	.90	.90	.90	.90	.88	.88	.88	.88	.85	.82	.81	.82	.83	.83	.83	.82	*.81	*.80	.87	.95	.80
7	*.79	*.79	*.78	*.78	*.77	*.76	*.76	.76	.76	.73	.71	.68	.66	.63	.62	.63	.63	.62	.61	.61	.61	.60	.57	.57	.68	.79	.57
8	.57	.57	.58	.57	.56	.56	.57	.59	.61	.63	.65	.66	.66	.66	.66	.66	.65	.67	.70	.72	.74	.76	.78	.79	.65	.79	.56
9	.79	.78	.78	.77	.75	.74	.74	.74	.73	.72	.70	.65	.64	.60	.58	.56	.53	.53	.54	.56	.56	.57	.59	.59	.66	.79	.53
10	.58	.58	.58	.58	.57	.57	.57	.57	.56	.56	.56	.57	.58	.59	.61	.62	.65	.68	.70	.75	.80	.84	.89	.93	.64	.93	.56
11	.95	.94	.95	.96	.98	.99	1.00	1.01	1.00	1.01	1.00	1.00	.99	.98	.97	.92	.90	.87	.87	.88	.90	.90	.89	.87	.95	1.01	.87
12	.84	.82	.81	.80	.77	.74	.71	.70	.69	.66	.64	.63	.66	.66	.68	.68	.69	.70	.70	.70	.72	.73	.76	.75	.72	.84	.63
13	.78	.80	.83	.84	.85	.85	.90	.93	.95	.98	.98	.98	.98	.98	.97	.97	.98	1.00	1.03	1.04	1.05	1.09	1.11	1.13	.96	1.13	.78
14	1.15	1.16	1.17	1.19	1.21	1.22	1.24	1.25	1.26	1.26	1.26	1.25	1.21	1.20	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.16	1.16	1.15	1.19	1.26	1.15
15	1.14	1.12	1.10	1.07	1.05	1.03	1.02	1.02	1.00	.98	.96	.94	.90	.86	.81	.75	.71	.68	.68	.68	.68	.72	.74	.70	.89	1.14	.68
16	.72	.72	.73	.73	.74	.74	.74	.76	.83	.86	.88	.90	.90	.90	.90	.90	.89	.91	.93	.96	1.00	1.02	1.04	1.04	.86	1.04	.72
17	1.04	1.04	1.05	1.06	1.07	1.07	1.08	1.09	1.10	1.10	1.11	1.12	1.11	1.09	1.07	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.07	1.07	1.12	1.04
18	1.05	1.04	1.02	.99	.97	.95	.94	.93	.94	.94	.93	.92	.90	.88	.85	.85	.85	.86	.87	.89	.90	.92	.93	.95	.93	1.05	.85
19	.95	.95	.95	.95	.95	.95	.94	.93	.92	.90	.88	.85	.80	.78	.75	.72	.70	.70	.70	.69	.70	.70	.70	.71	.82	.95	.69
20	.73	.77	.78	.77	.77	.78	.80	.83	.83	.84	.81	.80	.78	.79	.75	.75	.73	.74	.75	.79	*.80	*.81	*.82	*.82	.78	.84	.73
21	*.82	*.80	*.79	*.78	*.76	*.75	.74	.72	.68	.67	.67	.67	.63	.63	.59	.57	.56	.56	.56	.57	.57	.58	.59	.58	.66	.82	.56
22	.58	.58	.55	.54	.53	.52	.52	.52	.50	.50	.49	.47	.46	.45	.43	.40	.38	.41	.44	.45	.48	.49	.50	.50	.49	.58	.38
23	.52	.52	.54	.54	.57	.61	.61	.63	.64	.65	.65	.66	.68	.69	.69	.69	.71	.72	.75	.77	.79	.82	.83	.85	.67	.85	.52
24	.85	.86	.87	.87	.86	.86	.87	.88	.88	.89	.90	.89	.88	.86	.84	.84	.83	.83	.85	.86	.87	.90	.90	.90	.87	.90	.83
25	.90	.90	.90	.91	.87	.88	.86	.89	.90	.90	.90	.90	.90	.90	.90	.92	.92	.95	.96	1.00	1.00	1.03	1.05	1.05	.93	1.05	.87
26	1.06	1.08	1.06	1.06	1.06	1.05	1.05	1.05	1.06	1.06	1.04	1.04	1.02	.99	.97	.96	.95	.95	.97	.99	1.00	1.00	1.00	1.00	1.02	1.08	.95
27	1.01	1.01	1.02	1.03	1.05	1.06	1.08	1.12	1.13	1.14	1.14	1.14	1.15	1.14	1.14	1.13	1.12	1.12	1.15	1.19	1.23	1.26	1.28	1.29	1.13	1.29	1.01
28	1.29	1.30	1.30	1.30	1.30	1.31	1.31	1.33	1.33	1.32	1.32	1.33	1.32	1.31	1.29	1.28	1.26	1.25	1.26	1.27	1.28	1.30	1.31	1.30	1.30	1.33	1.25
29	1.30	1.30	1.29	1.28	1.27	1.26	1.25	1.26	1.26	1.26	1.26	1.25	1.22	1.19	1.16	1.14	1.13	1.13	1.14	1.15	1.17	1.18	1.18	1.18	1.22	1.30	1.13
30	1.17	1.15	1.15	1.15	1.14	1.14	1.13	1.14	1.14	1.14	1.13	1.13	1.11	1.09	1.08	1.06	1.02	1.00	1.00	1.01	1.01	1.02	1.01	.99	1.09	1.17	.99
31	.99	.98	.96	.93	.90	.87	.85	.84	.83	.78	.77	.77	.77	.76	.77	.78	.79	.80	.78	.78	.86	.88	.91	.93	.84	.99	.76
Mean	.91	.91	.91	.91	.90	.90	.91	.91	.92	.92	.91	.90	.89	.88	.86	.86	.85	.85	.86	.87	.89	.90	.91	.91	.89	1.01	.80

*Interpolated.

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

March, 1893.]

Day.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p. m.	
1	N.	5	S.	3	SW.	5	SW.	4	N.	4	*NW.*	3	*N.*	5	N.	7	N.	5	NE.	7	*SW.*	7	SE.	6	SE.	10
2	SW.	7	N.	6	NE.	6	SE.	5	SE.	6	SE.	5	NE.	3	E.	3	SW.	3	SW.	4	N.	3	NE.	3	E.	7
3	N.	21	N.	16	N.	15	NW.	21	NW.	17	N.	12	N.	18	N.	24	N.	28	N.	29	N.	33	N.	35	N.	40
4	SE.	5	SE.	2	SE.	3	SE.	5	SE.	2	E.	3	E.	2	*NE.*	3	N.	5	NE.	2	E.	2	E.	2	SE.	4
5	N.	10	N.	9	N.	9	N.	8	*N.*	9	N.	17	N.	26	N.	25	N.	23	N.	24	N.	19	N.	13	NE.	6
6	S.	4	S.	2	S.	2	S.	3	S.	4	N.	6	N.	9	N.	5	N.	4	NW.	3	W.	2	S.	8	S.	5
7	N.	5	N.	8	N.	8	N.	6	N.	8	N.	9	N.	6	N.	6	N.	9	N.	8	N.	7	N.	6	N.	9
8	N.	15	N.	16	*NW.*	11	N.	11	NW.	35	NW.	38	NW.	37	NW.	36	NW.	30	NW.	26	NW.	20	*N.*	17	NW.	17
9	NE.	6	SE.	4	SE.	4	N.	6	*N.*	7	NE.	6	*NE.*	5	E.	3	SE.	5	E.	7	S.	5	*SE.*	12	SW.	20
10	W.	18	W.	19	W.	12	N.	5	N.	3	W.	5	W.	9	S.	8	NW.	23	NW.	42	NW.	45	NW.	49	NW.	45
11	NW.	35	NW.	36	NW.	39	NW.	32	SE.	6	E.	8	W.	4	*W.*	4	N.	4	N.	2	NE.	4	SE.	6	*S.*	7
12	SE.	10	SE.	8	SE.	13	SW.	21	SW.	16	SW.	13	S.	10	S.	5	S.	9	SW.	12	SW.	21	SW.	18	W.	23
13	NW.	44	NW.	33	NW.	24	NW.	27	NW.	22	NW.	31	NW.	30	NW.	23	NW.	18	NE.	10	*SW.*	7	*S.*	8	*S.*	5
14	N.	12	N.	11	N.	9	N.	3	NE.	3	N.	2	N.	5	N.	5	N.	6	N.	6	N.	3	S.	4	SE.	4
15	*SE.*	17	SE.	10	*E.*	8	N.	3	N.	3	N.	3	N.	4	N.	3	N.	2	N.	2	NE.	2	E.	3	SW.	7
16	*NW.*	9	NW.	22	NW.	32	NW.	25	NW.	30	NW.	38	NW.	44	NW.	41	NW.	29	NE.	19	*NE.*	17	N.	20	*N.*	20
17	NE.	12	E.	3	NE.	4	N.	2	N.	3	N.	0	N.	2	N.	2	N.	4	N.	3	*S.*	8	S.	8	SE.	10
18	*NE.*	3	N.	5	N.	7	N.	5	N.	4	N.	2	*W.*	4	N.	5	N.	4	N.	3	N.	3	S.	11	*S.*	16
19	NE.	2	NE.	3	N.	6	N.	6	N.	6	N.	6	N.	8	N.	7	N.	7	N.	4	*SE.*	10	SE.	18	*S.*	27
20	*NE.*	4	E.	7	N.	21	N.	10	N.	8	W.	4	SE.	4	*NE.*	3	NE.	5	E.	5	SE.	10	SE.	21	SE.	25
21	SE.	7	SE.	10	SE.	8	*SE.*	3	N.	4	*NE.*	2	SE.	6	N.	2	N.	2	*E.*	3	SE.	6	*SE.*	4	SE.	6
22	SE.	2	SE.	4	SE.	5	SE.	9	SW.	6	SW.	1	*SW.*	2	N.	4	N.	5	N.	3	E.	2	*E.*	6	S.	11
23	N.	24	N.	20	N.	19	N.	18	N.	24	N.	20	N.	12	N.	8	N.	5	N.	7	N.	19	NE.	22	NE.	25
24	N.	4	N.	4	N.	6	*N.*	4	N.	4	N.	3	N.	5	N.	5	N.	3	N.	2	*E.*	3	SE.	4	*SE.*	8
25	N.	6	N.	7	*N.*	8	N.	3	SE.	3	N.	3	N.	6	*E.*	4	*N.*	3	N.	1	*NE.*	3	NE.	12	NE.	16
26	E.	2	*E.*	3	N.	5	N.	6	N.	5	N.	6	N.	6	N.	4	N.	3	N.	5	*N.*	9	NW.	14	NW.	23
27	*SW.*	3	*S.*	3	E.	4	NW.	2	NW.	11	*NE.*	11	NE.	13	NE.	7	*N.*	10	NE.	14	NE.	17	NE.	19	N.	19
28	N.	5	N.	5	*NE.*	2	NE.	4	N.	3	N.	4	N.	7	N.	6	N.	7	N.	4	NE.	2	SE.	4	SE.	5
29	N.	6	N.	8	N.	8	N.	8	N.	8	N.	9	N.	8	N.	5	N.	7	N.	5	NE.	3	SE.	5	SE.	8
30	N.	15	NE.	10	N.	12	*NE.*	7	W.	7	NW.	12	*NW.*	7	NW.	12	SW.	4	SW.	5	S.	6	S.	7	NW.	21
31	N.	8	*N.*	5	W.	4	*SE.*	4	NE.	6	*E.*	12	*E.*	5	*SW.*	10	NW.	21	NW.	37	NW.	49	NW.	48	NW.	48
Mean	N.	10.2	N.	9.7	N.	10.3	N.	8.9	N.	9.0	N.	9.5	N.	10.1	N.	9.2	N.	9.4	N.	9.9	N.	11.2	SE.	13.4	SE.	16.0

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [March, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	25	22	20	17	16	17	16	*16*	17	23	31	35	37	*41*	45	49	50	51	51	*45*	40	37	34	35	32.1	52	16
2	30	32	25	28	32	31	33	*30*	32	35	42	45	47	*48*	49	49	51	49	49	*46*	40	40	40	39	39.2	53	21
3	35	33	37	36	32	30	27	*22*	22	23	23	23	24	*25*	23	20	27	27	25	*24*	22	20	18	17	25.9	29	22
4	14	14	13	14	13	11	9	*8*	10	14	20	24	27	*32*	36	38	41	40	39	*36*	33	28	24	23	23.4	42	7
5	22	23	28	25	30	27	25	*23*	23	26	31	36	41	*41*	42	42	43	41	39	*35*	31	28	27	25	31.4	44	23
6	24	24	22	20	19	18	17	*19*	20	*35*	39	40	44	*48*	54	56	56	55	53	*50*	48	44	40	39	36.8	62	15
7	33	31	27	26	24	26	27	*24*	22	32	37	46	47	*41*	38	32	29	30	32	*32*	31	31	30	29	31.5	48	22
8	27	25	26	33	34	36	36	*36*	38	40	44	47	50	*52*	53	53	52	50	49	*42*	38	33	30	27	39.6	55	25
9	30	30	27	26	25	25	25	*25*	27	33	41	47	49	*49*	50	49	49	47	45	*42*	36	41	42	40	37.4	52	23
10	38	36	33	28	28	30	33	*32*	34	34	34	35	36	*37*	38	37	37	35	33	*30*	28	25	25	24	32.5	39	23
11	24	25	27	29	24	21	20	*18*	20	28	35	37	38	*42*	45	52	53	53	54	*51*	42	45	49	42	36.5	55	18
12	41	40	46	43	44	42	35	*39*	41	42	43	44	41	*41*	38	38	37	35	34	*32*	31	30	30	29	38.2	45	32
13	29	28	28	28	28	28	27	*27*	28	32	*30*	33	34	*36*	35	35	34	32	32	*29*	25	22	21	19	29.2	37	27
14	17	16	17	15	13	9	9	*11*	10	14	19	21	24	*27*	29	28	28	29	28	*28*	27	26	25	24	20.6	31	6
15	23	21	19	16	13	13	11	*13*	15	19	23	25	32	*33*	36	39	42	43	44	*42*	41	39	39	38	28.2	46	9
16	35	35	34	35	35	35	35	*35*	31	32	31	32	32	*35*	36	40	37	36	35	*33*	29	27	24	22	33.0	41	27
17	20	19	17	17	19	19	16	*15*	17	22	25	29	33	*33*	36	38	36	37	38	*35*	31	34	28	24	26.7	40	14
18	20	20	21	23	22	20	19	*22*	24	31	38	43	45	*52*	52	52	53	53	52	*50*	46	45	42	38	36.8	55	18
19	35	30	29	29	25	23	25	*23*	27	31	40	45	48	*49*	49	53	54	56	53	*52*	50	46	45	43	40.0	57	21
20	40	40	34	34	31	31	29	27	29	35	39	41	45	*48*	50	51	52	52	50	*48*	45	43	42	40	40.7	53	26
21	38	36	31	28	28	27	26	*25*	24	28	29	33	38	*44*	52	56	58	59	55	*54*	51	50	49	47	40.2	60	23
22	44	42	41	37	34	34	31	*31*	34	39	40	43	44	*42*	45	49	46	36	35	*35*	35	34	30	29	37.9	53	29
23	28	27	27	26	25	25	24	*24*	25	27	29	31	30	*33*	33	33	33	31	30	*30*	28	27	25	23	28.0	35	24
24	20	19	18	18	18	16	16	*18*	21	27	33	37	42	*43*	45	45	44	45	45	*42*	38	36	33	29	31.2	47	15
25	27	29	32	31	28	25	24	*27*	25	35	41	43	43	*42*	43	43	43	40	38	*37*	34	36	35	34	34.8	45	23
26	32	27	28	24	21	23	23	*24*	25	37	42	44	47	*48*	50	52	51	51	49	*46*	45	45	44	42	38.1	53	22
27	39	39	36	39	41	39	39	*38*	39	*38*	40	42	44	*46*	47	47	48	48	48	*45*	40	37	35	32	41.1	49	33
28	27	28	25	24	23	24	22	*21*	24	32	39	42	46	*50*	54	56	58	58	57	*54*	50	47	41	38	39.2	58	20
29	35	34	34	33	32	33	33	*31*	40	52	58	62	66	*67*	69	70	70	69	67	*64*	63	61	59	58	52.5	70	30
30	60	60	58	52	57	56	59	*55*	55	56	62	66	68	*70*	72	73	74	74	73	*70*	67	66	57	57	63.2	75	50
31	56	58	52	51	58	55	62	*62*	62	62	62	63	64	*64*	64	62	61	59	60	*58*	55	52	50	47	58.3	66	50
Mean..	31.2	30.4	29.3	28.5	28.1	27.4	26.9	26.5	27.8	32.6	36.8	39.8	42.1	43.9	45.4	46.5	46.7	45.8	44.9	42.5	39.4	37.9	35.8	34.0	36.3	49.9	23.0

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[March, 1893.

Day.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Mid.	Max.	Direction.
1	*SE.* 9	*E.* 10	E. 9	SW. 9	SW. 8	NW. 6	NW. 5	W. 7	W. 6	S. 6	S. 6	12	E.
2	*E.* 13	W. 14	SW. 7	W. 11	SW. 14	SW. 8	NW. 11	NW. 10	NW. 10	NW. 16	N. 16	23	SW.
3	N. 27	*N.* 23	*NE.* 17	SE. 6	*W.* 8	S. 10	S. 9	S. 9	S. 8	S. 4	SE. 5	40	N.
4	SE. 7	SE. 5	SE. 6	SE. 7	S. 9	S. 10	*S.* 8	N. 2	NE. 3	N. 6	N. 8	13	S.
5	SE. 13	SE. 22	SE. 25	SE. 26	SE. 23	SE. 19	SE. 15	E. 14	SE. 10	SE. 4	*SE.* 2	31	SE.
6	*SE.* 8	SE. 11	W. 15	W. 18	W. 21	SW. 14	SW. 7	SW. 10	N. 4	SE. 12	E. 4	29	W.
7	N. 20	*NE.* 27	N. 25	*N.* 19	N. 17	N. 13	N. 11	N. 14	N. 14	*NE.* 15	N. 12	30	NE.
8	*NW.* 15	*N.* 14	NE. 15	N. 13	N. 11	*E.* 12	NE. 6	NE. 5	SE. 3	W. 3	SE. 3	42	NW.
9	SW. 26	SW. 26	S. 19	W. 17	SW. 18	S. 21	SW. 18	*S.* 29	*SW.* 22	SW. 24	SW. 19	43	SW.
10	NW. 42	NW. 40	NW. 43	NW. 47	NW. 46	NW. 45	NW. 44	NW. 45	NW. 48	NW. 43	NW. 33	56	NW.
11	*SE.* 6	*S.* 13	SE. 16	*SE.* 17	S. 16	S. 16	*S.* 7	NW. 4	N. 5	*SW.* 12	S. 12	48	NW.
12	NW. 22	W. 23	NW. 37	*W.* 30	*NW.* 26	NW. 31	NW. 43	NW. 47	NW. 46	NW. 45	NW. 42	54	NW.
13	E. 7	*N.* 8	NE. 12	N. 12	N. 17	N. 19	N. 19	N. 20	N. 18	N. 18	N. 17	50	NW.
14	*SE.* 6	SE. 5	S. 10	S. 18	S. 18	S. 19	S. 16	S. 14	SE. 15	S. 19	S. 20	24	S.
15	*SE.* 7	SE. 9	S. 10	S. 15	S. 13	*S.* 5	NW. 12	NW. 9	N. 11	*W.* 14	*NW.* 17	40	NW.
16	N. 21	NE. 17	NE. 18	NE. 20	NE. 23	NE. 21	NE. 15	NE. 8	N. 2	NE. 2	NE. 2	47	NW.
17	SE. 10	*SE.* 9	S. 7	N. 7	N. 6	N. 6	S. 3	*SW.* 2	W. 3	SE. 3	*E.* 3	13	SE.
18	W. 17	NW. 27	NW. 29	NW. 25	NW. 20	NW. 11	NW. 10	NW. 11	NW. 7	S. 7	SE. 3	32	NW.
19	S. 27	S. 30	S. 26	S. 16	E. 8	NW. 12	*N.* 4	*SW.* 8	W. 12	NE. 12	*W.* 8	34	S.
20	S. 22	S. 26	S. 27	S. 24	S. 22	*S.* 22	S. 19	SE. 12	S. 4	S. 6	SE. 7	32	S.
21	S. 6	S. 8	SE. 14	E. 10	W. 13	W. 10	W. 12	S. 9	*SW.* 10	*W.* 8	E. 7	26	W.
22	S. 12	NW. 9	NW. 12	W. 9	N. 26	N. 27	N. 20	N. 15	N. 15	*NE.* 19	N. 18	31	NE.
23	NE. 22	NE. 18	NE. 20	NE. 20	NE. 21	N. 18	N. 15	N. 7	N. 2	NE. 6	N. 15	30	NE.
24	S. 10	S. 9	*W.* 8	*NW.* 14	N. 13	NW. 14	*SW.* 5	E. 4	N. 8	*NE.* 5	N. 3	24	NW.
25	NE. 20	N. 20	*N.* 18	N. 16	*NW.* 16	W. 13	NW. 12	W. 6	W. 6	N. 3	*NW.* 4	29	N.
26	NW. 21	NW. 21	NW. 21	*NE.* 14	E. 13	NW. 19	NW. 20	NW. 21	NW. 7	NW. 3	NW. 3	31	NW.
27	N. 20	N. 20	N. 26	N. 26	NE. 26	*NE.* 23	NE. 18	*N.* 8	NE. 7	NE. 3	N. 1	30	NE.
28	SE. 6	*S.* 5	*SE.* 6	*S.* 7	SE. 6	*SE.* 6	S. 3	S. 2	SE. 6	S. 4	N. 3	10	SE.
29	*S.* 5	*E.* 9	NW. 19	NW. 23	NW. 16	NW. 22	NW. 26	NW. 25	NW. 22	NW. 19	NW. 21	30	NW.
30	NW. 18	SW. 9	*W.* 12	*NW.* 17	NW. 19	NW. 18	NW. 14	*W.* 16	W. 15	W. 8	NW. 7	29	NW.
31	NW. 46	NW. 48	NW. 45	NW. 37	NW. 37	NW. 23	NW. 38	NW. 29	*NW.* 8	NE. 13	N. 8	57	NW.
Mean..	SE. / S. } 16.5	SE. 17.3	NW. 18.5	NW. 17.7	NW. / N. } 17.7	NW. 16.5	NW. 15.2	NW. 13.6	N. 11.5	NE. 11.7	N. 10.2	.....	.....

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

NOTE.—All eye readings are printed in *italics*.

April, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.94	.96	.98	.98	.98	.99	1.00	*1.02*	1.03	1.03	1.03	1.01	.98	*.95*	.94	.91	.88	.86	.87	*.88*	.90	.92	.92	.92	.95	1.03	.86
2	.93	.94	.93	.93	.93	.93	.94	*.96*	.97	.97	.96	.94	.93	*.90*	.89	.87	.86	.85	.85	*.86*	.86	.88	.88	.89	.91	.97	.85
3	.90	.90	.90	.89	.91	.91	.93	*.97*	.99	1.00	1.01	1.00	1.00	*.99*	.99	.99	.99	1.00	1.02	*1.04*	1.07	1.08	1.09	1.09	.99	1.09	.89
4	1.09	1.12	1.13	1.12	1.10	1.09	1.09	*1.08*	1.08	1.07	1.06	1.05	1.05	*1.01*	.99	.98	.98	.98	.99	*1.02*	1.04	1.07	1.08	1.09	1.06	1.13	.98
5	1.10	1.11	1.12	1.12	1.11	1.11	1.11	*1.11*	1.11	1.10	1.09	1.09	1.06	*1.00*	.98	.96	.95	.93	.92	*.91*	.91	.92	.91	.90	1.03	1.12	.90
6	.90	.88	.86	.84	.82	.82	.80	*.80*	.79	.78	.78	.77	.75	*.72*	.72	.68	.66	.63	.62	*.59*	.61	.57	.58	.58	.73	.90	.57
7	.58	.59	.59	.60	.61	.63	.66	*.68*	.71	.72	.73	.74	.74	*.74*	.74	.74	.75	.76	.78	*.82*	.86	.90	.92	.92	.73	.92	.58
8	.94	.94	.95	.96	1.02	1.05	1.09	*1.11*	1.14	1.15	1.15	1.13	1.10	*1.06*	1.04	1.02	1.00	.99	1.00	*1.02*	1.04	1.06	1.08	1.07	1.05	1.15	.94
9	1.06	1.05	1.04	1.03	1.01	1.00	1.00	*1.00*	.99	.98	.97	.96	.94	*.91*	.92	.93	.93	.93	.96	*.98*	1.03	1.04	1.05	1.08	.99	1.08	.91
10	1.08	1.08	1.07	1.05	1.04	1.03	1.02	*1.02*	1.01	*.98*	.94	.88	.84	*.81*	.76	.68	.62	.57	.52	*.50*	.49	.50	.51	.50	.81	1.08	.49
11	.49	.49	.49	.47	.46	.46	.44	.44	.47	.44	.43	.43	.44	.44	.47	.50	.50	.48	.53	*.56*	.60	.64	.65	.65	.50	.65	.43
12	.67	.68	.70	.70	.70	.70	.71	*.74*	.75	.76	.77	.78	.78	*.77*	.77	.77	.78	.81	.81	*.81*	.83	.86	.87	.87	.77	.87	.67
13	.89	.92	.93	.32	.93	.94	.93	*.96*	.97	.97	.98	.99	.99	*.98*	1.00	1.02	1.05	1.08	1.10	*1.11*	1.12	1.14	1.15	1.15	1.01	1.15	.89
14	1.15	1.15	1.15	1.15	1.14	1.14	1.13	*1.13*	1.13	1.12	1.10	1.09	1.07	*1.04*	1.01	.98	.94	.94	.94	*.94*	.95	.96	.97	.97	1.05	1.15	.94
15	.97	.97	.96	.95	.95	.97	.98	*1.00*	1.00	1.00	1.00	1.00	1.00	*.99*	.98	.98	.96	.97	.97	*1.00*	1.04	1.06	1.09	1.10	1.00	1.10	.95
16	1.12	1.13	1.13	1.13	1.14	1.14	1.15	*1.16*	1.16	1.15	1.13	1.11	1.10	*1.08*	1.05	1.03	1.01	1.00	1.00	*1.01*	1.02	1.03	1.04	1.05	1.09	1.16	1.00
17	1.05	1.05	1.05	1.05	1.05	1.05	1.05	*1.06*	1.07	*1.07*	1.04	1.02	1.00	*.97*	.93	.92	.88	.86	.86	*.86*	.89	.90	.90	.88	.93	1.07	.86
18	.88	.87	.84	.83	.82	.82	.81	*.80*	.80	.80	.80	.78	.75	*.72*	.70	.68	.70	.72	.75	*.79*	.85	.91	.93	.95	.80	.95	.68
19	.95	.94	.94	.94	.95	.95	.96	*.98*	.99	1.00	.99	.98	.95	*.92*	.90	.88	.85	.84	.85	*.86*	.88	.89	.89	.88	.92	1.00	.84
20	.85	.83	.81	.79	.79	.80	.84	*.88*	.90	.91	.93	.94	.93	*.92*	.91	.90	.90	.92	.93	*.94*	.96	.98	.99	1.00	.90	1.00	.79
21	1.00	1.00	1.00	1.00	1.00	1.01	1.01	*1.01*	1.01	1.01	1.00	1.00	.99	*.97*	.97	.96	.93	.92	.93	*.53*	.94	.96	.97	.98	.98	1.01	.92
22	1.00	1.01	1.01	1.01	1.04	1.06	1.07	*1.09*	1.09	1.09	1.09	1.08	1.06	*1.04*	1.01	1.00	.99	.97	.98	*.98*	1.00	1.01	1.01	1.00	1.03	1.09	.97
23	.98	.96	.95	.93	.92	.90	.89	*.88*	.88	.86	.84	.82	.79	*.77*	.76	.73	.70	.67	.67	*.66*	.68	.70	.70	.70	.81	.98	.66
24	.70	.71	.72	.74	.75	.76	.75	*.76*	.77	.77	.75	.75	.74	*.74*	.73	.72	.69	.64	.65	*.66*	.70	.77	.84	.55	.74	.85	.64
25	.86	.86	.86	.86	.85	.85	.84	*.84*	.82	.81	.78	.78	.76	*.75*	.75	.77	.78	.79	.80	*.81*	.83	.87	.88	.90	.82	.90	.75
26	.91	.91	.92	.92	.92	.93	.94	*.96*	.98	.97	.96	.96	.95	*.96*	.95	.94	.96	.96	.97	*.98*	1.00	1.02	1.03	1.04	.96	1.04	.91
27	1.04	1.04	1.03	1.01	1.01	1.01	1.00	*.98*	*.98*	.97	.95	.93	.92	.90	*.85*	.83	.80	.78	.76	.75	.75	.77	.79	.82	.84	.85	.90	1.04	.77
28	.86	.87	.88	.86	.87	.88	.89	*.90*	.90	.89	.88	.87	.85	*.81*	.79	.78	.76	.75	.75	.77	.79	.82	.84	.84	.84	.90	.75
29	.82	.82	.82	.83	.84	.84	.85	*.86*	.86	.86	.85	.85	.84	*.82*	.83	.82	.81	.80	.81	*.83*	.85	.86	.87	.87	.84	.87	.80
30	.88	.88	.87	.86	.85	.85	*.85*	.85	.86	.87	.87	.87	.87	*.87*	.87	.87	.87	.88	.89	*.90*	.91	.94	.95	.95	.88	.95	.85
Mean	.92	.92	.92	.92	.92	.92	.92	*.93*	.94	.94	.93	.92	.90	.88	.87	.86	.85	.84	.85	*.86*	.88	.90	.91	.92	.90	1.01	.80

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

April, 1893.]

Day.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p. m.	
1	*SE.*	5	N.	6	NE.	5	*E.*	5	S.	1	*NE.*	3	N.	5	N.	3	*NE.*	2	SE.	6	*SE.*	9	SE.	15	*S.*	22
2	SW.	7	SW.	5	SW.	11	S.	5	SE.	5	*N.*	3	*SW.*	7	*W.*	2	SW.	2	S.	2	*S.*	5	*SW.*	4	SW.	5
3	NW.	20	NW.	24	NW.	15	NW.	14	NW.	19	N.	16	*NW.*	7	SE.	5	SE.	6	SE.	9	*W.*	8	NW.	12	NW.	29
4	N.	5	*SW.*	4	NW.	4	NW.	6	*N.*	6	N.	8	N.	9	N.	8	*NE.*	7	*NW.*	3	E.	5	SE.	7	E.	5
5	N.	13	*N.*	7	N.	3	N.	7	N.	10	N.	9	N.	9	N.	10	N.	10	N.	6	NE.	2	SE.	9	SE.	10
6	*NE.*	5	*N.*	5	SE.	6	*NE.*	7	*SW.*	16	SW.	20	*S.*	10	SW.	9	SW.	17	*W.*	19	NW.	15	W.	25	*SW.*	20
7	SW.	32	SW.	29	SW.	29	SW.	21	SW.	16	SW.	10	W.	17	W.	12	W.	19	W.	18	W.	15	W.	24	*NW.*	31
8	NW.	23	N.	16	N.	14	N.	17	NE.	11	SE.	11	*W.*	9	S.	26	SE.	19	SE.	19	S.	21	SE.	22	S.	26
9	N.	3	N.	5	N.	7	N.	7	N.	9	N.	8	N.	9	N.	10	N.	12	N.	14	N.	6	SE.	10	SE.	13
10	S.	2	*S.*	4	NE.	1	*SE.*	3	SE.	11	SE.	12	S.	9	*E.*	12	E.	8	SE.	15	SE.	22	SE.	26	SE.	33
11	SW.	32	SW.	26	SW.	20	SW.	14	SW.	15	*SW.*	17	*N.*	5	N.	17	*NW.*	15	N.	10	*N.*	12	NW.	24	NE.	25
12	NW.	12	NW.	17	NW.	19	NW.	13	NW.	14	NW.	26	NW.	27	NW.	24	NW.	23	NW.	24	NW.	22	NW.	20	NW.	18
13	N.	13	NE.	6	S.	3	E.	1	*SE.*	8	*W.*	7	NE.	5	*N.*	7	N.	5	*SE.*	6	SE.	13	SE.	11	SE.	7
14	N.	4	N.	5	N.	7	N.	10	N.	10	N.	10	N.	12	N.	12	N.	7	N.	4	*NE.*	3	NE.	3	E.	4
15	NE.	6	N.	6	NE.	6	N.	4	N.	7	N.	7	N.	6	N.	12	*N.*	7	N.	9	N.	5	E.	6	S.	9
16	N.	6	*NW.*	5	N.	6	N.	8	N.	6	N.	7	N.	9	N.	6	N.	5	N.	4	NE.	1	SW.	5	SE.	13
17	N.	9	N.	8	N.	7	N.	11	N.	8	N.	8	N.	10	N.	8	N.	8	N.	5	*E.*	2	SE.	5	S.	7
18	N.	9	N.	4	N.	10	N.	7	N.	5	N.	10	N.	8	N.	5	N.	7	N.	17	NE.	14	E.	8	SE.	7
19	N.	33	N.	31	N.	32	N.	37	N.	34	N.	31	N.	36	N.	30	NW.	27	NW.	22	N.	26	N.	22	N.	24
20	NW.	7	W.	5	NW.	23	NW.	26	N.	22	NW.	18	NE.	12	N.	6	NE.	27	NE.	24	NE.	29	N.	31	N.	33
21	NE.	2	*NE.*	2	NE.	0	SE.	2	SE.	2	NE.	3	N.	3	N.	3	N.	2	E.	4	*E.*	2	*SW.*	2	SE.	4
22	N.	9	N.	7	N.	3	N.	7	N.	6	N.	3	N.	2	E.	7	S.	9	S.	17	S.	14	S.	8	SE.	13
23	N.	3	NE.	4	N.	4	N.	6	N.	6	N.	5	N.	6	N.	6	SW.	8	SW.	5	SE.	9	SE.	12	E.	8
24	N.	3	*SW.*	3	W.	11	NW.	13	NW.	16	NW.	15	*NW.*	11	N.	11	*E.*	9	*SE.*	11	NE.	7	*N.*	6	S.	7
25	N.	22	N.	21	N.	18	N.	19	N.	19	N.	16	N.	16	N.	17	N.	15	N.	10	NE.	5	*S.*	13	SE.	15
26	N.	15	N.	6	NE.	6	N.	3	E.	2	N.	4	N.	5	NW.	3	W.	5	SE.	5	E.	10	NW.	14	NW.	19
27	S.	17	S.	20	S.	19	SE.	20	SE.	15	E.	6	N.	5	N.	4	*N.*	3	E.	7	S.	6	SE.	9	SE.	9
28	NE.	15	N.	21	N.	22	N.	17	N.	9	N.	7	N.	8	N.	7	N.	4	E.	5	SE.	11	S.	14	SE.	23
29	SE.	10	SE.	14	SE.	14	S.	12	S.	11	SE.	13	SE.	10	SE.	9	S.	7	S.	6	S.	6	S.	7	*SE.*	11
30	SE.	7	S.	6	S.	7	S.	6	S.	10	S.	12	SE.	7	SE.	4	SW.	4	SW.	1	SW.	2	N.	8	N.	6
Mean	N.	11.6	N.	10.7	N.	11.1	N.	10.9	N.	11.0	N.	10.8	N.	9.5	N.	9.8	N.	10.0	N.	10.2	NE.	10.2	SE.	12.7	SE.	15.2

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [April, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	44	40	38	36	33	29	27	*29*	32	34	35	41	45	*47*	50	53	56	56	57	*55*	49	50	53	49	43.2	57	26
2	50	50	47	45	45	49	48	*47*	49	51	55	60	62	*64*	65	65	67	67	67	*64*	59	55	51	52	55.6	69	43
3	53	51	52	52	54	53	50	*51*	51	57	60	62	64	*64*	68	69	70	69	68	*63*	60	57	55	54	58.6	69	49
4	48	45	49	46	45	40	42	*52*	45	54	58	63	66	*70*	71	71	71	70	69	*68*	62	59	56	54	56.7	72	35
5	52	48	42	40	42	39	36	*37*	45	55	59	63	72	*69*	69	69	71	70	68	*66*	66	65	63	60	56.9	76	34
6	57	58	58	56	61	60	56	*58*	60	62	63	66	66	*67*	69	69	69	69	68	*66*	*65*	66	65	64	62.9	71	54
7	60	57	55	53	51	50	47	*46*	46	46	47	48	49	*51*	52	54	54	53	53	*49*	48	45	43	42	50.0	55	44
8	41	41	40	35	32	29	25	*24*	24	27	29	32	35	*38*	41	45	45	46	45	*44*	42	40	36	35	36.2	47	24
9	31	30	25	25	25	27	26	*32*	36	41	44	46	49	*54*	52	49	50	50	49	*47*	43	39	37	35	39.2	54	23
10	33	28	27	31	32	31	30	*30*	31	*36*	39	42	46	*48*	50	57	58	59	59	*61*	60	61	58	57	44.3	63	26
11	55	54	52	50	48	44	42	*40*	42	43	44	45	45	*46*	48	49	50	48	46	*48*	41	39	38	37	45.4	50	36
12	37	36	35	34	34	35	35	*35*	37	39	42	44	44	*44*	45	47	47	46	46	*44*	43	40	39	38	40.2	47	34
13	37	37	38	37	31	28	28	*29*	29	28	28	28	29	*30*	29	28	26	26	26	*26*	23	23	19	19	28.4	30	24
14	19	14	10	10	9	6	9	*8*	15	19	25	29	31	*33*	35	38	40	43	44	*42*	39	36	36	36	26.0	44	6
15	34	36	34	32	36	34	33	*30*	34	40	45	43	44	*47*	47	47	48	48	46	*45*	42	40	38	34	39.8	49	30
16	33	32	28	27	26	26	25	*24*	32	39	42	46	49	*51*	51	56	57	58	57	*55*	52	49	47	42	42.0	58	24
17	41	39	34	34	33	35	31	*33*	40	*50*	52	58	60	*60*	64	65	65	65	66	*62*	57	51	51	45	49.6	67	32
18	50	48	46	42	40	39	41	*47*	50	49	51	50	54	*56*	57	57	44	43	41	*32*	28	28	25	23	43.0	59	32
19	23	23	23	21	22	23	23	*24*	26	28	29	31	32	*36*	36	36	38	39	40	*39*	35	36	35	30	30.5	41	21
20	32	32	36	34	34	34	28	*28*	25	24	27	32	34	*36*	37	38	39	39	38	*38*	35	32	30	29	33.0	41	23
21	24	23	22	20	18	17	18	*21*	24	28	33	34	39	*43*	44	47	49	50	49	*49*	48	45	42	36	34.2	50	18
22	35	35	35	32	32	32	30	*32*	36	37	39	42	43	*48*	50	50	52	52	51	*50*	47	46	43	39	41.2	53	29
23	39	35	33	33	32	32	33	*36*	40	50	54	58	63	*65*	67	68	69	68	67	*67*	64	62	58	55	52.0	71	31
24	54	53	50	50	51	52	52	*54*	56	*57*	58	61	63	*64*	65	66	67	68	68	*65*	54	49	45	42	56.8	68	49
25	38	37	36	33	32	31	31	*32*	34	38	40	39	39	*42*	42	36	32	34	35	*34*	32	32	31	30	35.0	44	30
26	30	30	29	29	27	25	26	*29*	35	45	48	51	52	*52*	54	56	54	52	51	*51*	50	48	49	48	42.5	58	24
27	45	43	41	39	37	35	33	*31*	37	42	48	53	58	*63*	64	65	67	67	67	*66*	64	58	53	50	51.1	68	28
28	48	46	44	42	40	36	34	*36*	43	46	49	52	54	*55*	56	58	58	57	56	*54*	51	46	44	42	47.8	59	33
29	41	40	38	33	32	30	29	*28*	27	27	28	29	29	*29*	28	28	28	29	29	*28*	27	26	25	24	29.7	32	28
30	24	24	24	24	23	23	23	*24*	26	28	28	29	30	*28*	27	28	29	32	33	*33*	32	32	31	30	27.7	34	23
Mean.	40.3	38.8	37.4	35.8	35.2	34.1	33.0	33.6	36.9	40.7	43.3	45.9	48.3	*49.9*	51.2	52.1	52.3	52.4	51.9	50.1	47.3	45.1	43.2	41.1	43.3	55.0	30.4

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[April, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	S.	26	SE.	28	SE.	25	SE.	24	S.	23	S.	23	S.	18	S.	5	N.	6	N.	7	NW.	20	30	SE.
2	*NE.*	9	*NW.*	10	NW.	13	*W.*	13	W.	14	*SW.*	7	NW.	7	NW.	4	N.	3	N.	4	*N.*	5	24	NW.
3	NW.	31	NW.	24	NW.	26	NW.	24	NW.	18	NW.	15	NW.	17	NW.	15	NW.	11	NW.	6	NW.	4	44	NW.
4	*E.*	11	NW.	22	NW.	25	NW.	25	NW.	21	NW.	21	NW.	18	NW.	16	NW.	11	NW.	14	NW.	10	34	NW.
5	SE.	17	SW.	26	S.	25	S.	23	S.	21	S.	15	SE.	9	*SE.*	10	*SW.*	11	*S.*	6	S.	6	35	SW.
6	SW.	25	SW.	25	SW.	37	SW.	39	SW.	33	SW.	30	SW.	26	SW.	24	SW.	27	SW.	32	SW.	30	58	SW.
7	W.	17	*W.*	13	W.	20	NW.	26	NW.	25	W.	20	*W.*	15	NW.	15	*NW.*	11	NW.	22	NW.	22	45	W.
8	S.	27	*S.*	27	*SE.*	28	S.	28	S.	26	SE.	25	SE.	18	SE.	8	*E.*	8	*N.*	3	N.	4	32	S.
9	SE.	7	*NW.*	20	N.	26	NE.	23	NE.	20	NE.	22	NE.	15	NE.	11	NE.	10	*NE.*	13	SE.	5	29	N.
10	S.	33	S.	26	S.	20	S.	22	S.	18	S.	12	S.	28	S.	17	SW.	23	SW.	30	SW.	26	44	SW.
11	*NE.*	25	NW.	38	NW.	37	NW.	31	NW.	48	NW.	40	NW.	34	NW.	24	NW.	9	NW.	12	NW.	8	52	NW.
12	NW.	16	NW.	13	*SW.*	15	NW.	6	NW.	18	*W.*	7	*N.*	5	*E.*	4	N.	2	NE.	3	N.	11	36	NW.
13	SW.	7	SW.	6	SW.	2	N.	13	N.	11	N.	14	N.	14	N.	14	N.	10	N.	11	N.	8	20	N.
14	E.	5	NE.	3	NE.	4	NE.	13	N.	3	SE.	5	NW.	7	NW.	8	N.	6	NE.	6	*E.*	6	14	N.
15	*S.*	7	SE.	6	S.	8	*SE.*	6	SE.	6	E.	12	E.	14	E.	7	N.	5	E.	3	*NE.*	4	22	E.
16	SE.	13	SE.	17	SE.	13	SE.	9	E.	7	NE.	5	NW.	15	NW.	10	N.	10	E.	11	NE.	9	24	SE.
17	S.	12	S.	9	SW.	17	W.	20	NW.	18	SW.	14	NW.	11	NW.	14	NW.	4	N.	10	N.	12	26	NW.
18	W.	14	N.	15	NW.	18	N.	27	N.	32	N.	24	N.	32	N.	35	N.	33	N.	29	N.	33	44	N.
19	N.	22	NE.	20	NE.	12	NE.	19	NE.	19	N.	18	N.	13	N.	13	W.	12	W.	9	NW.	17	44	N.
20	N.	32	N.	29	*N.*	28	*NE.*	26	NE.	24	N.	22	N.	19	NE.	13	N.	9	NE.	3	NE.	1	38	N.
21	SE.	7	SE.	9	SE.	6	SE.	8	SE.	6	E.	6	E.	5	SE.	4	*S.*	2	E.	3	N.	6	13	SE.
22	SE.	14	SE.	15	SE.	20	S.	22	SE.	24	S.	25	S.	22	S.	16	*SE.*	11	*E.*	6	E.	3	28	S.
23	*SE.*	9	*W.*	11	W.	16	W.	20	W.	15	SW.	18	SW.	16	SW.	15	SW.	12	SW.	8	N.	6	27	W.
24	*S.*	15	S.	17	S.	20	SE.	18	S.	15	S.	20	SW.	16	SW.	13	N.	42	N.	30	N.	23	51	N.
25	SE.	15	*SE.*	14	SE.	11	N.	16	N.	20	N.	21	N.	20	N.	18	N.	20	N.	22	N.	18	26	N.
26	N.	13	NE.	8	*N.*	7	N.	12	SE.	20	E.	15	E.	10	SE.	8	S.	8	S.	10	S.	15	26	NW.
27	*E.*	6	*W.*	15	SW.	17	W.	13	W.	15	W.	12	W.	11	W.	16	N.	10	N.	12	*W.*	7	30	SW.
28	SE.	24	S.	26	SE.	27	S.	23	S.	23	S.	20	SE.	18	SE.	17	SE.	11	S.	8	SE.	8	31	S.
29	E.	10	SE.	9	S.	10	S.	9	S.	8	S.	9	S.	11	SE.	11	S.	8	S.	10	S.	10	16	SE.
30	NE.	6	S.	3	*NW.*	3	*S.*	6	SE.	4	SE.	3	SW.	6	SE.	8	S.	8	S.	7	S.	8	13	SE.
Mean.	SE.	15.8	SE.	16.8	SE. NW.	17.9	S.	18.5	S.	18.5	S.	16.7	NW.	15.7	NW.	13.1	N.	11.8	N.	11.7	N.	11.8	.....	.....

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

NOTE.—All eye readings are printed in *italics*.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.95	.94	.93	.92	.93	.93	.94	.96	.98	*1.00*	.99	1.00	.99	*.98*	.98	.97	.96	.97	.98	.99	1.01	1.03	1.04	1.04	.98	1.04	.92
2	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.04	1.04	1.03	1.03	1.02	1.00	*.99*	.98	.98	.98	.99	1.00	1.00	1.02	1.02	1.04	1.04	1.02	1.04	.98
3	1.04	1.04	1.03	1.02	1.01	1.00	1.00	1.00	.99	.97	.94	.91	.88	*.84*	.81	.79	.79	.79	.79	.77	.77	.77	.77	.76	.90	1.04	.76
4	.75	.75	.75	.74	.75	.76	.77	.77	.78	.78	.80	.80	.80	*.80*	.78	.78	.75	.74	.74	.75	.77	.79	.80	.82	.77	.82	.74
5	.83	.84	.85	.86	.86	.87	.87	.87	.87	.86	.86	.84	.83	*.81*	.79	.79	.79	.78	.82	.83	.86	.87	.92	.93	.85	.93	.78
6	.94	.95	.98	.99	1.00	1.00	1.01	1.04	1.05	1.05	1.05	1.06	1.07	*1.07*	1.07	1.08	1.08	1.09	1.10	1.12	1.13	1.14	1.16	1.15	1.06	1.16	.94
7	1.15	1.15	1.15	1.14	1.14	1.14	1.14	1.15	1.15	1.13	1.12	1.10	1.09	*1.07*	1.06	1.05	1.04	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.09	1.15	1.03
8	1.02	1.02	1.01	1.00	1.00	1.00	1.00	1.00	.99	.97	.96	.95	.94	*.93*	.92	.90	.88	.87	.88	.90	.94	.95	.96	.96	.96	1.02	.87
9	.96	.96	.96	.96	.96	.97	.97	.98	.98	.98	.97	.97	.96	*.94*	.93	.92	.91	.92	.93	.95	.97	.99	1.01	1.03	.96	1.03	.91
10	1.03	1.03	1.03	1.02	1.03	1.04	1.04	1.05	1.05	1.05	1.04	1.04	1.02	*1.00*	1.00	.99	.98	.96	.97	.98	1.00	1.02	1.05	1.10	1.02	1.10	.96
11	1.15	1.18	1.20	1.23	1.27	1.28	1.33	1.35	1.35	1.35	1.35	1.34	1.34	*1.33*	1.32	1.30	1.28	1.25	1.23	1.23	1.24	1.26	1.29	1.28	1.29	1.35	1.15
12	1.28	1.27	1.24	1.23	1.22	1.20	1.19	1.18	1.18	1.18	1.16	1.15	1.13	*1.09*	1.07	1.05	1.01	.98	.96	.96	.96	.97	.98	.98	1.11	1.28	.96
13	.98	.97	.95	.93	.92	.91	.91	.90	.90	.89	.88	.86	.85	*.84*	.84	.83	.82	.81	.81	.81	.82	.83	.84	.85	.87	.98	.81
14	.86	.85	.85	.86	.88	.91	.93	.93	.94	.94	.95	.96	.96	*.96*	.95	.95	.94	.93	.94	.97	.99	1.01	1.03	1.05	.94	1.05	.85
15	1.05	1.05	1.05	1.05	1.05	1.05	1.06	1.07	1.08	*1.08*	1.08	1.08	1.08	*1.08*	1.07	1.06	1.09	1.08	1.09	1.13	1.14	1.15	1.19	1.22	1.09	1.22	1.05
16	1.25	1.24	1.21	1.20	1.20	1.20	1.20	1.20	1.20	1.19	1.18	1.17	1.15	*1.14*	1.14	1.13	1.12	1.11	1.12	1.12	1.13	1.14	1.15	1.15	1.17	1.25	1.11
17	1.14	1.12	1.10	1.08	1.07	1.06	1.05	1.04	1.04	1.05	1.03	1.01	.98	*.96*	.92	.89	.85	.84	.83	.82	.83	.84	.85	.84	.97	1.14	.82
18	.84	.82	.81	.80	.78	.77	.76	76	.74	.72	.68	.65	.63	*.59*	.54	.51	.48	.47	.47	.52	.61	.68	.75	.78	.67	.84	.47
19	.81	.82	.83	.84	.86	.87	.87	.87	.88	.89	.90	.91	.92	*.93*	.92	.92	.92	.91	.92	.94	.98	.99	1.03	1.05	.91	1.05	.81
20	1.06	1.06	1.07	1.08	1.09	1.11	1.12	1.12	1.13	1.12	1.11	1.09	1.06	*1.01*	.98	.97	.94	.90	.88	.83	.84	.85	.87	.86	1.01	1.13	.83
21	.85	.83	.82	.81	.79	.78	.77	.78	.78	.77	.77	.75	.73	.69	.68	.65	.64	.64	.70	.77	.83	.85	.90	.89	.77	.90	.64
22	.88	.87	.87	.87	.89	.91	.95	.98	1.00	*1.02*	1.03	1.03	1.05	*1.12*	1.12	1.11	1.10	1.07	1.06	1.07	1.08	1.10	1.11	1.11	1.02	1.12	.87
23	1.10	1.08	1.06	1.03	1.02	1.03	1.02	1.01	1.00	.98	.95	.95	.90	*.84*	.80	.78	.75	.71	.70	.70	.71	.72	.75	.75	.89	1.10	.70
24	.75	.77	.78	.79	.80	.92	.88	.88	.92	.91	.91	.90	.87	*.87*	.85	.85	.86	.86	.86	.91	.94	.97	.99	1.01	.87	1.01	.75
25	1.01	1.01	.99	1.00	.99	.98	.97	.97	.97	.97	.95	.93	.92	*.89*	.86	.83	.80	.78	.77	.80	.86	.90	.95	.95	.92	1.01	.77
26	.97	.97	.97	.97	.98	.99	1.00	1.02	1.02	1.02	.98	.98	.97	*.96*	.94	.93	.92	.93	.96	.98	1.01	1.03	1.06	1.08	.99	1.08	.92
27	1.09	1.09	1.09	1.10	1.10	1.09	1.09	1.10	1.10	1.10	1.10	1.08	1.08	*1.06*	1.05	1.05	1.02	1.02	1.01	1.02	1.04	1.06	1.10	1.12	1.07	1.12	1.01
28	1.13	1.12	1.12	1.12	1.11	1.11	1.12	1.13	1.13	1.13	1.12	1.11	1.09	*1.07*	1.05	1.04	1.04	1.04	1.04	1.04	1.05	1.07	1.09	1.09	1.09	1.13	1.04
29	1.09	1.08	1.08	1.08	1.07	1.07	1.08	1.06	1.05	*1.03*	1.00	.99	.98	*.97*	.94	.92	.88	.84	.83	.83	.86	.88	.89	.89	.98	1.09	.83
30	.89	.87	.85	.83	.80	.78	.77	.76	.74	.74	.74	.74	.76	*.79*	.79	.79	.78	.79	.81	.83	.87	.89	.92	.93	.81	.93	.74
31	.94	.93	.95	.97	.98	.99	.99	1.00	1.00	1.00	1.01	1.00	.98	*.96*	.95	.92	.89	.85	.84	.84	.86	.88	.90	.91	.94	1.01	.84
Mean.	1.00	.99	.99	.99	.99	.99	1.00	1.00	1.01	1.00	.99	.98	.97	.95	.94	.93	.91	.90	.90	.92	.94	.96	.98	.99	.97	1.07	.87

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

Day.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p. m.	
1	SE.	11	S.	12	SE.	10	SE.	13	S.	7	SE.	7	SE.	6	*E.*	4	E.	4	*SW.*	3	W.	2	NE.	3	E.	3
2	SE.	5	N.	3	N.	5	N.	4	N.	6	N.	6	N.	7	N.	5	N.	3	NE.	2	*NE.*	3	SE.	2	SE.	6
3	N.	4	N.	5	N.	6	N.	6	N.	7	N.	8	N.	5	N.	6	N.	6	N.	4	E.	3	E.	4	NW.	6
4	N.	6	N.	6	N.	17	N.	16	N.	7	N.	15	N.	14	N.	12	N.	12	*NW.*	17	W.	24	*W.*	9	NW.	29
5	S.	14	S.	6	*SE.*	7	S.	12	SE.	8	E.	7	E.	5	E.	8	SE.	10	S.	15	S.	19	S.	29	S.	23
6	S.	9	*S.*	10	SE.	11	S.	5	S.	2	S.	2	S.	3	S.	2	SE.	2	NE.	2	N.	8	N.	7	N.	10
7	NE.	6	NE.	7	*SE.*	5	S.	5	S.	3	S.	2	S.	2	S.	1	S.	1	SE.	5	E.	4	S.	3	S.	4
8	*S.*	7	SE.	7	SE.	6	SE.	2	E.	1	E.	2	E.	1	E.	1	*NW.*	1	E.	2	S.	4	SE.	9	S.	10
9	N.	4	N.	6	N.	5	N.	7	N.	6	N.	7	N.	5	SW.	4	SW.	4	S.	6	SE.	10	SE.	8	S.	7
10	N.	8	N.	8	N.	9	N.	9	N.	7	N.	8	N.	11	N.	9	N.	10	NE.	4	SE.	5	SE.	5	S.	15
11	N.	32	N.	28	N.	18	N.	21	N.	16	N.	11	NW.	7	NE.	5	NE.	5	E.	4	*SE.*	5	S.	7	SE.	8
12	S.	7	SE.	11	SE.	6	N.	5	N.	7	N.	8	N.	10	N.	8	N.	4	E.	2	E.	2	S.	4	*SE.*	5
13	N.	6	N.	8	N.	7	N.	9	N.	11	N.	10	N.	10	N.	10	N.	8	N.	9	N.	5	SE.	8	SE.	14
14	N.	3	N.	6	N.	6	N.	16	N.	27	N.	27	N.	23	N.	24	N.	25	N.	28	N.	24	*NE.*	23	*N.*	21
15	N.	2	N.	6	N.	8	N.	5	N.	7	N.	8	N.	7	N.	7	N.	6	N.	3	E.	3	S.	6	S.	9
16	NE.	8	E.	3	NW.	3	N.	5	N.	6	N.	7	N.	4	NW.	2	*NE.*	2	E.	3	S.	6	S.	7	S.	7
17	W.	2	W.	3	N.	4	N.	6	N.	8	N.	8	N.	7	N.	5	N.	2	SE.	4	SE.	8	SE.	9	SE.	7
18	*NW.*	8	*E.*	4	NW.	4	NW.	8	NW.	8	SE.	5	SE.	5	E.	4	E.	7	E.	10	*E.*	15	S.	21	S.	19
19	NW.	29	NW.	28	NW.	30	NW.	30	NW.	23	NW.	24	NW.	44	NW.	50	NW.	42	NW.	37	NW.	14	NW.	15	NW.	13
20	N.	12	*NE.*	6	N.	7	*NW.*	5	*NE.*	4	N.	3	N.	7	N.	4	S.	10	S.	19	SE.	18	S.	20	S.	25
21	SE.	12	SE.	13	SE.	11	*SE.*	8	SE.	8	SE.	7	*N.*	12	W.	13	*SW.*	12	SW.	12	NW.	10	W.	13	W.	19
22	N.	11	N.	15	NW.	23	NW.	23	NW.	20	N.	21	N.	28	N.	33	N.	31	N.	29	N.	23	N.	35	N.	37
23	N.	4	*NE.*	3	N.	3	N.	4	N.	6	N.	5	N.	7	N.	5	N.	7	NE.	4	E.	3	SE.	6	S.	10
24	NE.	8	*N.*	18	N.	28	N.	23	N.	21	N.	23	N.	21	N.	16	NE.	14	NE.	10	*NE.*	6	SE.	13	SE.	19
25	N.	7	NE.	5	SE.	9	SE.	13	SE.	9	SE.	8	SE.	13	SE.	14	SE.	15	SE.	16	SE.	15	SE.	15	SE.	15
26	*NE.*	15	N.	9	NE.	7	N.	7	*N.*	5	N.	1	SW.	3	*SW.*	5	*SE.*	8	*S.*	8	S.	14	S.	20	S.	21
27	*N.*	3	*S.*	5	*SE.*	7	E.	10	E.	9	E.	7	E.	7	SE.	10	SE.	12	SE.	10	SE.	10	SE.	13	*S.*	14
28	N.	9	N.	3	W.	4	W.	2	W.	1	W.	2	*NE.*	6	E.	4	SW.	3	SE.	5	SE.	4	E.	3	SW.	6
29	SE.	1	N.	2	N.	3	N.	7	N.	13	N.	9	N.	9	N.	14	N.	10	W.	25	W.	31	*NW.*	31	W.	13
30	N.	3	N.	4	N.	1	N.	4	N.	6	N.	8	N.	9	N.	10	N.	6	NE.	9	*NW.*	17	NW.	16	NW.	39
31	N.	17	N.	17	NE.	17	*N.*	17	N.	15	NW.	4	N.	7	*NW.*	4	N.	5	N.	12	N.	8	*SE.*	4	*NE.*	7
Mean.	N.	8.8	N.	8.6	N.	9.3	N.	9.9	N.	9.1	N.	8.7	N.	9.8	N.	9.6	N.	9.3	E.	10.3	SE.	10.4	SE.	11.6	S.	13.9

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [May, 1893.

Day.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	30	30	30	28	27	27	26	*27*	28	*30*	33	37	40	*43*	44	45	46	45	45	*42*	42	41	41	37	36.0	46	25
2	35	33	31	32	28	29	28	*29*	35	40	43	46	41	*52*	52	51	50	53	51	*49*	47	43	41	39	41.2	53	26
3	35	33	33	34	32	33	32	*35*	40	45	49	53	58	*62*	64	64	59	59	60	*58*	55	53	50	50	47.8	65	30
4	48	51	48	48	46	45	42	*43*	51	53	53	56	56	*56*	59	66	62	62	63	*62*	58	57	55	52	51.6	63	40
5	49	50	48	46	47	43	45	*44*	47	49	50	52	54	*54*	58	55	52	53	49	*45*	44	41	40	40	48.1	58	41
6	39	36	34	32	32	32	32	*32*	32	32	33	34	33	*33*	35	37	38	38	37	*36*	35	34	34	34	34.3	38	32
7	33	32	31	30	30	29	29	*31*	30	32	33	37	38	*40*	41	41	42	43	43	*42*	41	40	39	38	36.0	43	29
8	38	37	36	36	36	36	35	*34*	35	*40*	44	50	52	*53*	55	57	57	57	57	*56*	52	50	50	49	45.9	59	32
9	44	41	40	39	38	38	41	*41*	49	56	60	63	65	*68*	71	72	73	72	72	*70*	64	60	57	51	56.0	72	36
10	49	49	48	48	46	44	44	*50*	60	64	68	73	74	74	77	76	75	75	74	*73*	70	68	62	52	62.2	77	41
11	48	46	45	44	42	42	42	*42*	46	49	51	52	55	*57*	60	61	62	64	64	*63*	59	57	57	50	52.7	65	40
12	54	51	51	45	43	44	40	*45*	56	60	64	69	71	*73*	74	75	75	74	75	*73*	66	67	64	60	61.2	79	40
13	55	53	52	52	51	50	50	*54*	61	68	69	70	69	*68*	67	66	66	66	67	*66*	63	61	58	53	60.6	70	48
14	54	51	49	52	51	50	50	*52*	54	57	57	60	62	*64*	66	68	65	67	64	*64*	62	60	55	53	57.8	68	49
15	50	48	46	45	44	44	43	*48*	55	*63*	67	69	71	*71*	72	71	65	70	69	*64*	61	60	58	58	58.8	74	42
16	55	54	51	48	47	45	43	*49*	53	55	58	62	67	*70*	70	71	69	69	68	*68*	65	62	60	60	59.1	73	42
17	58	55	50	49	48	46	47	*54*	60	64	69	75	77	*76*	77	80	81	81	80	*78*	76	72	68	64	66.0	82	45
18	65	63	67	70	65	62	60	*67*	72	73	76	76	77	*78*	79	79	79	79	76	*68*	61	55	52	50	68.7	80	57
19	49	47	46	45	44	43	44	*46*	50	51	58	59	60	*61*	63	64	65	65	65	*64*	61	58	53	52	54.8	66	43
20	45	48	47	45	42	42	43	*44*	53	55	56	58	61	*64*	66	68	71	72	73	*73*	70	68	68	68	58.3	74	40
21	65	66	64	64	63	63	62	*63*	64	65	65	67	68	*69*	70	70	69	57	50	*47*	42	35	35	37	59.2	71	47
22	37	41	42	41	39	37	34	*35*	36	37	39	39	40	*41*	44	45	47	48	48	*49*	46	44	41	39	41.2	49	33
23	36	36	35	33	33	32	32	*38*	45	46	50	54	59	*64*	68	69	69	71	70	*68*	68	65	63	59	52.5	72	30
24	55	47	45	44	44	42	42	*43*	45	47	50	52	55	*56*	59	61	63	63	61	*51*	50	48	46	45	50.6	64	42
25	44	45	44	38	37	37	36	*35*	34	35	35	35	35	*36*	39	42	45	46	46	*47*	46	45	41	41	40.1	47	32
26	40	38	39	39	39	39	38	*38*	41	44	48	48	50	*52*	54	55	56	56	56	*56*	48	47	46	46	46.4	58	38
27	46	47	44	44	43	43	42	*42*	41	42	42	43	44	*45*	47	47	48	50	50	*50*	47	47	45	41	45.0	52	40
28	42	43	44	44	43	43	42	*43*	45	48	52	55	57	*58*	61	62	61	62	62	*62*	61	57	52	50	52.0	62	42
29	50	47	45	41	40	43	43	*52*	59	*63*	65	68	69	*72*	74	74	75	73	72	*69*	66	65	61	55	60.0	78	40
30	53	48	47	46	44	44	43	*45*	53	61	65	66	66	*66*	67	68	68	66	65	*64*	61	57	50	52	56.9	69	40
31	52	50	47	46	45	44	43	*47*	52	55	58	60	62	*64*	65	66	68	69	68	*66*	65	61	60	58	57.2	70	42
Mean.	46.9	45.7	44.5	43.5	42.2	41.6	41.1	43.5	47.7	51.0	53.5	56.1	57.9	59.4	61.2	61.9	62.0	62.1	61.3	59.5	56.5	54.1	51.7	49.6	52.3	64.4	38.8

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[May, 1893.

Day.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Mid.	Max.	Direction.
1	E. 4	S. 8	SE. 7	SE. 9	S. 7	*S.* 9	SW. 15	SW. 9	S. 7	S. 7	SE. 5	18	SW.
2	S. 10	E. 9	*E.* 14	NE. 9	NE. 9	N. 11	N. 15	N. 10	N. 6	N. 3	N. 4	22	NE.
3	SE. 8	W. 8	SW. 16	S. 19	SW. 15	W. 17	E. 5	W. 9	N. 5	N 3	N. 4	38	W.
4	NW. 18	NW. 16	NW. 21	NW. 21	NW. 22	NW. 21	NW. 15	NW. 13	NW. 10	SE. 5	N. 6	40	NW.
5	S. 22	S. 21	S. 21	S. 18	SE. 8	W. 7	NW. 8	NW. 8	S. 8	*NW.* 14	W. 3	37	S.
6	N. 11	N. 16	N. 15	N. 14	N. 17	N. 17	N. 19	*N.* 16	NE. 17	NE. 11	N. 6	21	N.
7	S. 6	S. 9	S. 7	S. 11	S. 11	S. 13	S. 10	SE. 9	SE. 11	SE. 9	SE. 10	14	S.
8	SE. 9	*SE.* 10	SE. 8	*S.* 11	SE. 12	S. 13	S. 14	*SW.* 18	W. 15	W. 10	*N.* 4	27	SW.
9	S. 9	W. 10	NW. 10	W. 15	W. 16	W. 17	*W.* 10	NW. 9	NW. 8	NW. 11	N. 8	24	NW.
10	SW. 25	W. 24	*SW.* 23	*W.* 17	NW. 11	W. 19	NW. 12	W. 13	W. 12	N. 5	N. 28	41	N.
11	*E.* 7	SE. 7	SE. 7	SE. 12	SE. 14	S. 17	SE. 18	SE. 16	*S.* 11	S. 10	SE. 9	36	N.
12	S. 8	S. 9	S. 10	SE. 9	*S.* 8	E. 6	SE. 7	E. 11	*NW.* 6	W. 4	N. 6	12	S.
13	SE. 11	SE. 11	S. 11	S. 10	S. 15	S. 4	N. 2	NE. 4	S. 5	SE. 6	NE. 4	23	S.
14	N. 20	N. 18	N. 16	N. 16	E. 21	E. 21	E. 14	S. 5	S. 8	S. 5	*SE.* 4	32	N.
15	S. 11	SE. 11	SE 10	W. 20	S. 12	W. 6	S. 7	W. 10	SE. 6	*NW.* 8	N. 13	27	W.
16	S. 6	*S.* 15	SW. 16	SW. 13	*SE.* 14	S. 11	E. 7	*W.* 4	N. 3	N. 4	N. 4	39	NW.
17	*S.* 6	SE. 7	SE. 8	W. 11	SW. 9	*SW.* 10	SW. 9	*NW.* 9	NW. 10	NW. 7	*N.* 4	15	W.
18	S. 24	S. 27	S. 29	S. 31	SW. 32	SW. 37	SW. 33	NW. 27	NW. 28	NW. 25	NW. 18	46	SW.
19	W. 14	W. 32	W. 22	W. 24	NW. 20	NW. 26	NW. 17	NW. 16	*N.* 12	*NW.* 8	*N.* 5	55	NW.
20	S. 28	S. 29	S. 25	S. 20	S. 20	S. 17	S. 12	S. 17	S. 11	S. 8	SE. 9	34	S.
21	SW. 19	SW. 19	*S.* 20	*SW.* 21	W. 18	N. 39	N. 37	N. 26	*NE.* 21	N. 27	N. 23	45	N.
22	N. 32	N. 30	N. 27	NE. 25	NE. 24	NE. 22	NE. 17	N. 13	N. 4	N. 1	N. 2	39	N.
23	*SE.* 11	SE. 9	*NW.* 9	W. 21	SW. 17	SW. 14	SW. 15	*S.* 12	W. 12	*NW.* 13	NE. 5	29	W.
24	SE. 22	*S.* 24	S. 23	S. 20	SE. 15	SE. 18	N. 19	N. 19	N. 15	N. 13	*N.* 14	32	N.
25	SE. 13	SE. 14	SE. 16	SE. 21	SE. 21	SE. 22	SE. 14	N. 7	N. 19	*NE.* 20	NE. 19	26	NE.
26	*SE.* 24	*S.* 27	S. 28	S. 25	S. 22	S. 17	SE. 12	SE. 8	N. 18	N. 15	NE. 10	33	S.
27	SE. 13	SE. 8	SE. 8	E. 6	SW. 5	N. 6	NW. 7	N. 12	N. 14	N. 12	N. 19	23	N.
28	SE. 6	SE. 6	S. 10	S. 10	*SE.* 4	SW. 4	SE. 3	S. 2	S. 1	S. 2	*SW.* 1	20	N.
29	SE. 8	SE. 6	NW. 9	*S.* 5	*E.* 10	E. 18	E. 20	E. 13	*SE.* 5	*S.* 3	*NE.* 3	39	W.
30	NW. 33	NW. 31	NW. 27	NW. 32	NW. 33	NW. 36	NW. 36	NW. 36	NW. 28	*NE.* 19	NE. 20	43	NW.
31	SE. 7	SE. 9	SE. 11	SE. 12	*S.* 13	*SE.* 16	S. 15	S. 15	S. 15	S. 9	S. 9	22	NE.
Mean.	S. 14.4	SE. 15.6	S. 15.6	S. 16.4	S. 15.3	S. 16.5	NW. 14.3	NW. 12.8	N. 11.2	N. 9.6	N. 9.0	.....	.....

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

NOTE.—All eye readings are printed in *italics*.

June, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.91	.90	.89	.88	.88	.87	.87	.87	.88	.88	.87	.87	.88	*.89*	.91	.91	.89	.88	.88	.90	.92	.93	.94	.97	.90	.97	.87
2	*.98*	.96	.96	.95	.94	.94	.94	.94	.92	.91	.90	.89	.86	*.85*	.81	.78	.75	.73	.72	.74	.76	.77	.80	.82	.86	.98	.72
3	.81	.81	.81	.82	.83	.85	.87	.87	.87	.88	.88	.85	.82	*.80*	.75	.75	.78	.78	.82	.88	.90	.93	.97	.99	.85	.99	.75
4	1.03	1.03	1.04	1.04	1.05	1.05	1.06	1.07	1.07	1.07	1.08	1.08	1.09	*1.10*	1.12	1.12	1.13	1.14	1.16	1.18	1.22	1.23	1.24	1.24	1.11	1.24	1.03
5	1.25	1.25	1.24	1.23	1.23	1.22	1.21	1.21	1.22	*1.22*	1.22	1.22	1.20	*1.17*	1.16	1.15	1.15	1.17	1.18	1.20	1.25	1.28	1.29	1.30	1.22	1.30	1.15
6	1.30	1.31	1.32	1.32	1.32	1.31	1.31	1.30	1.30	1.29	1.28	1.27	1.24	1.23	1.20	1.18	1.17	1.15	1.13	1.13	1.14	1.16	1.17	1.17	1.24	1.32	1.13
7	1.16	1.15	1.14	1.14	1.12	1.11	1.11	1.11	1.10	1.09	1.07	1.06	1.03	*1.00*	.98	.96	.92	.91	.90	.91	.91	.92	.95	.95	1.03	1.16	.90
8	.94	.94	.95	.95	.96	.97	.99	1.00	1.02	1.03	1.01	1.01	.99	.97	.95	.93	.93	.94	.93	.92	.93	.94	.97	.98	.96	1.03	.92
9	.98	.98	.98	1.00	1.00	.99	.99	1.00	1.02	1.03	1.03	1.03	1.02	*1.01*	1.02	1.00	.98	.98	1.00	1.02	1.06	1.06	1.09	1.09	1.02	1.09	.98
10	1.10	1.10	1.10	1.09	1.09	1.09	1.10	1.10	1.11	1.11	1.11	1.10	1.08	*1.07*	1.05	1.03	1.00	.98	.97	.99	1.01	1.02	1.04	1.04	1.06	1.11	.97
11	1.04	1.04	1.03	1.03	1.03	1.04	1.04	1.03	1.02	1.01	1.00	1.00	.96	*.96*	.94	.92	.89	.88	.90	.90	.91	.92	.95	.96	.98	1.04	.88
12	.96	.96	.96	.96	.97	.97	.97	.97	.97	.97	.95	.94	.93	*.92*	.88	.87	.84	.81	.80	.82	.84	.86	.87	.86	.91	.97	.80
13	.87	.87	.86	.87	.87	.87	.87	.87	.85	.85	.85	.85	.85	*.86*	.84	.83	.81	.78	.78	.79	.80	.83	.85	.87	.84	.87	.78
14	.88	.88	.88	.88	.92	.93	.94	.95	.95	.95	.94	.93	.92	*.90*	.88	.87	.85	.85	.83	.85	.92	.97	1.01	1.03	.91	1.03	.83
15	1.03	1.04	1.05	1.05	1.05	1.07	1.08	1.10	1.11	1.10	1.10	1.10	1.09	*1.08*	1.07	1.05	1.03	1.02	1.01	1.02	1.06	1.09	1.13	1.16	1.07	1.16	1.01
16	1.18	1.18	1.18	1.19	1.19	1.19	1.19	1.18	1.20	1.20	1.19	1.19	1.18	*1.16*	1.14	1.12	1.10	1.12	1.14	1.13	1.15	1.17	1.18	1.19	1.17	1.20	1.10
17	1.20	1.21	1.21	1.21	1.20	1.20	1.21	1.22	1.22	1.22	1.21	1.20	1.18	*1.17*	1.15	1.13	1.12	1.08	1.07	1.08	1.10	1.13	1.16	1.17	1.17	1.22	1.07
18	1.18	1.18	1.17	1.16	1.16	1.15	1.15	1.15	1.15	1.15	1.14	1.13	1.11	*1.09*	1.08	1.06	1.03	1.01	1.00	1.00	1.01	1.02	1.06	1.07	1.10	1.18	1.00
19	1.07	1.07	1.07	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.02	1.03	.99	.97	.94	.93	.92	.92	.93	.93	.94	.95	.97	1.00	1.07	.92
20	.98	.97	.97	.97	.97	.99	1.00	1.00	1.01	1.01	.99	.99	.97	*.96*	.94	.93	.92	.90	.90	.90	.91	.94	.98	.99	.96	1.01	.90
21	1.00	1.02	1.02	1.02	1.05	1.06	1.09	1.11	1.12	1.14	1.12	1.11	1.10	*1.10*	1.08	1.07	1.07	1.07	1.08	1.09	1.12	1.15	1.17	1.09	1.17	1.00
22	1.18	1.19	1.17	1.17	1.16	1.19	1.19	1.21	1.22	1.22	1.19	1.16	1.15	*1.12*	1.06	1.03	.98	.96	.93	.91	.89	.87	.89	1.08	1.22	.87
23	.91	.91	.92	.92	.92	.93	.95	.97	.98	.98	.98	.97	.97	*.96*	.94	.92	.89	.90	.90	.90	.93	.96	1.00	1.02	.94	1.02	.89
24	1.03	1.03	1.05	1.07	1.10	1.09	1.11	1.14	1.14	1.15	1.16	1.15	1.15	*1.13*	1.10	1.08	1.07	1.04	1.11	1.09	1.09	1.11	1.12	1.14	1.10	1.16	1.03
25	1.14	1.14	1.15	1.15	1.16	1.17	1.17	1.19	1.20	1.20	1.18	1.17	1.15	*1.15*	1.10	1.08	1.05	1.03	1.03	1.05	1.08	1.10	1.10	1.10	1.13	1.20	1.03
26	1.10	1.12	1.12	1.10	1.10	1.11	1.11	1.11	1.11	*1.10*	1.07	1.06	1.05	*1.05*	1.07	1.13	1.14	1.05	1.02	1.06	1.04	1.04	1.10	1.10	1.09	1.14	1.02
27	1.08	1.08	1.07	1.05	1.05	1.05	1.05	1.05	1.05	1.06	1.04	1.03	1.02	*1.01*	.99	.97	.93	.92	.92	.92	.92	.95	.98	.98	1.01	1.08	.92
28	.98	.97	.97	.97	.96	.97	.98	.99	.99	.98	.98	.96	.95	*.95*	.90	.88	.85	.82	.83	.88	.90	.93	.95	.97	.94	.99	.82
29	.97	.97	.97	.99	1.02	1.02	1.04	1.06	1.11	1.11	1.11	1.11	1.11	*1.10*	1.09	1.08	1.06	1.05	1.03	1.02	1.03	1.04	1.05	1.05	1.05	1.11	.97
30	1.07	1.07	1.05	1.05	1.05	1.05	1.06	1.08	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.08	1.05	1.03	1.00	1.04	1.05	1.08	1.13	1.13	1.08	1.13	1.00
Mean.	1.04	1.04	1.04	1.04	1.05	1.05	1.06	1.06	1.07	1.07	1.06	1.05	1.04	1.03	1.01	1.00	.98	.96	.96	.98	.99	1.01	1.04	1.05	1.03	1.10	.94

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

June, 1893.]

Day.	0-1h a. m.		1-2h		2-3h		3-4h		4-5h		5-6h		6-7h		7-8h		8-9h		9-10h		10-11h		11-Noon.		Noon-1h p. m.	
1	*S.*	8	*SE.*	10	SE.	12	SE.	10	SE.	3	SW.	2	*N.*	5	N.	6	N.	5	N.	13	N.	20	N.	16	N.	18
2	NE.	4	N.	2	N.	3	N.	4	N.	6	N.	7	N.	7	N.	8	N.	6	*N.*	3	S.	7	SE.	10	*E.*	7
3	N.	4	N.	5	N.	15	N.	26	N.	27	N.	32	N.	29	N.	21	N.	20	N.	22	N.	16	N.	5	S.	13
4	N.	21	N.	21	N.	13	NE.	10	N.	12	N.	11	N.	6	N.	6	*N.*	3	SE.	7	SE.	7	E.	7	SE.	8
5	*W.*	5	*E.*	5	N.	4	N.	3	N.	3	N.	5	N.	5	N.	4	N.	4	*N.*	2	*SE.*	3	E.	4	*S.*	6
6	N.	8	N.	3	N.	3	N.	3	N.	3	N.	5	N.	5	N.	5	N.	3	NE.	2	E.	2	S.	6	S.	7
7	N.	5	N.	5	N.	7	N.	9	N.	9	N.	10	N.	10	N.	8	N.	5	NE.	1	E.	3	E.	4	SE.	6
8	N.	9	N.	10	N.	6	N.	6	N.	6	E.	6	N.	8	N.	6	E.	7	E.	3	S.	6	SE.	9	E.	6
9	W.	8	W.	12	W.	11	NE.	9	N.	10	N.	15	NW.	19	*NW.*	8	N.	3	E.	5	E.	5	E.	7	SE.	8
10	SE.	10	S.	4	E.	4	SE.	4	N.	5	N.	9	N.	8	N.	9	N.	5	N.	1	E.	3	S.	7	S.	7
11	N.	5	N.	7	N.	8	N.	10	N.	9	N.	9	N.	8	N.	10	N.	7	N.	4	*N.*	2	S.	5	S.	5
12	N.	8	N.	7	N.	7	N.	7	N.	8	N.	8	N.	10	N.	8	N.	4	N.	2	S.	2	S.	5	S.	9
13	SW.	5	N.	4	NE.	3	N.	5	N.	7	N.	6	N.	6	S.	4	S.	11	S.	16	S.	15	S.	20	S.	22
14	W.	7	W.	8	N.	8	N.	8	N.	9	N.	12	N.	15	N.	11	N.	15	N.	18	N.	10	N.	9	S.	7
15	N.	18	N.	12	N.	10	N.	9	N.	9	N.	7	N.	4	N.	8	N.	7	N.	11	NE.	12	NE.	9	NE.	5
16	N.	9	N.	7	N.	10	N.	7	N.	9	N.	8	N.	10	N.	8	*N.*	5	SE.	3	SE.	4	S.	7	SE.	11
17	S.	9	SE.	5	SW.	2	NW.	4	N.	6	N.	8	N.	9	N.	9	N.	3	N.	1	S.	3	S.	6	SE.	10
18	SE.	5	N.	3	N.	5	N.	5	N.	6	N.	7	N.	7	N.	9	N.	7	N.	3	SE.	4	S.	7	S.	11
19	SE.	7	SE.	2	N.	4	N.	5	N.	5	N.	8	N.	6	N.	6	N.	6	*NW.*	2	SW.	2	SE.	6	SE.	8
20	N.	9	N.	8	N.	10	N.	9	N.	11	N.	11	N.	9	N.	7	N.	5	S.	2	SE.	4	SE.	8	*SE.*	8
21	NW.	19	NW.	17	N.	21	N.	21	N.	12	*NE.*	7	N.	11	N.	7	*NE.*	6	NE.	14	N.	9	*S.*	7	S.	10
22	SE.	8	SE.	9	SE.	8	SE.	11	SE.	26	SE.	20	SE.	19	SE.	12	SE.	13	S.	9	SE.	13	SE.	16	SE.	16
23	S.	10	*N.*	6	W.	8	W.	17	W.	16	W.	15	W.	17	W.	14	*NW.*	6	NW.	4	*NE.*	5	NW.	9	NW.	11
24	NW.	10	NW.	13	*NW.*	19	NE.	19	NW.	15	*N.*	9	N.	10	N.	14	N.	18	N.	15	*NE.*	10	SE.	5	SE.	10
25	N.	4	*N.*	4	N.	7	N.	7	N.	7	N.	6	N.	7	N.	5	N.	5	N.	1	*W.*	5	SE.	6	S.	7
26	W.	4	*SW.*	5	*S.*	1	*NE.*	1	*NE.*	5	N.	6	N.	6	N.	9	N.	7	N.	6	N.	3	SE.	7	S.	10
27	*NE.*	6	*SE.*	3	NE.	5	*SW.*	5	NW.	19	S.	5	*N.*	3	SW.	4	*E.*	5	SE.	5	SE.	5	SE.	6	NE.	5
28	*SW.*	2	N.	5	N.	7	N.	10	N.	10	N.	10	N.	11	N.	10	N.	8	*NE.*	6	*N.*	4	SE.	10	*SE.*	9
29	E.	6	SE.	3	SE.	6	S.	3	*S.*	3	N.	2	E.	3	SE.	6	E.	9	E.	9	*SW.*	7	S.	8	*NE.*	8
30	SE.	12	W.	6	N.	4	*N.*	4	N.	7	N.	9	N.	10	N.	11	N.	13	N.	11	N.	19	N.	19	*NE.*	9
Mean.	N.	8.2	N.	7.0	N.	7.7	N.	8.4	N.	9.4	N.	9.2	N.	9.5	N.	8.4	N.	7.3	N.	6.7	N.	6.9	SE. S.	8.3	S.	9.2

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [June, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	57	56	54	52	50	47	46	*49*	52	59	61	61	61	*61*	55	56	60	64	62	*57*	57	54	52	50	55.5	64	46
2	49	48	44	40	40	37	37	*42*	49	50	60	64	66	*68*	70	72	73	70	70	*70*	67	65	62	58	57.4	73	37
3	53	47	49	48	47	47	48	*50*	50	52	55	60	62	*64*	65	66	62	59	57	*55*	52	50	50	49	54.0	67	45
4	43	43	43	42	40	40	40	*42*	45	48	50	48	51	*51*	49	44	41	43	44	*42*	41	41	43	42	44.0	51	42
5	42	42	40	37	39	39	39	*38*	43	47	49	51	52	*54*	56	57	57	57	57	*56*	53	49	47	46	47.8	59	34
6	45	42	42	40	38	37	36	*42*	46	51	47	62	59	*62*	65	66	66	68	70	*69*	65	62	61	55	54.0	70	34
7	49	48	47	46	44	44	44	*58*	62	67	71	74	82	*84*	83	84	84	83	81	*80*	76	73	61	61	65.8	88	43
8	56	56	54	53	67	57	62	*66*	71	75	79	80	83	*84*	86	86	82	83	83	*82*	77	74	72	77	72.7	87	52
9	75	74	72	66	63	65	70	*66*	65	66	72	74	75	*77*	74	76	78	79	77	*73*	72	70	66	67	71.3	79	62
10	63	61	60	58	55	50	48	*52*	64	71	76	79	82	*83*	84	84	84	84	83	*81*	77	70	62	64	69.8	85	48
11	58	56	54	53	54	55	51	*58*	67	76	79	81	84	*86*	87	88	88	85	81	*80*	79	75	71	64	71.2	89	48
12	61	57	58	53	51	48	48	*56*	62	67	74	75	82	*82*	84	83	86	85	84	*79*	76	73	69	65	69.1	86	48
13	63	60	55	53	53	51	49	*53*	60	68	76	78	79	*80*	82	84	84	84	83	*82*	78	73	74	71	69.7	85	47
14	67	64	60	55	56	60	58	*59*	65	69	73	75	77	*79*	79	81	82	79	75	*73*	67	63	57	58	67.9	82	53
15	58	55	54	51	48	48	50	*52*	61	65	67	69	71	*73*	75	75	77	77	76	*75*	71	65	64	56	63.8	77	48
16	55	52	48	46	46	46	45	*53*	62	64	66	70	73	*73*	75	76	76	75	74	*74*	72	70	70	67	63.7	77	44
17	64	62	59	52	50	50	49	*55*	62	68	70	74	76	*78*	80	81	82	82	82	*81*	79	74	73	69	68.8	83	46
18	63	59	55	54	55	51	49	*57*	65	71	71	74	82	*80*	86	88	89	89	89	*82*	79	76	74	71	71.2	85	46
19	66	64	57	55	52	50	50	*56*	63	*68*	73	77	80	*81*	83	84	85	85	83	*81*	79	76	69	65	70.1	86	50
20	59	63	58	56	55	62	64	*65*	75	82	83	85	87	*88*	91	91	92	92	92	*90*	88	84	78	80	77.5	93	53
21	75	74	73	73	72	70	67	*64*	70	71	77	78	78	*79*	79	80	80	80	80	*77*	75	70	69	67	74.1	81	62
22	64	60	56	58	59	54	54	*54*	55	60	63	66	69	*73*	76	79	82	84	83	*83*	83	75	79	78	68.6	84	51
23	80	79	80	78	77	75	73	*68*	74	72	78	80	83	*84*	85	87	89	87	87	*86*	83	80	79	78	80.1	89	67
24	75	76	70	68	68	64	60	*59*	62	67	70	70	70	*73*	74	77	78	78	72	*71*	73	69	69	65	69.9	80	56
25	62	60	57	53	53	49	49	*53*	59	61	65	67	71	*73*	76	77	73	74	77	*74*	65	63	61	58	63.8	78	48
26	57	56	54	51	51	49	48	*53*	60	*69*	76	77	77	*74*	69	68	68	68	71	*65*	61	63	65	63	63.0	79	48
27	62	57	56	56	64	55	54	*55*	59	66	71	75	79	*80*	79	80	82	83	82	*81*	79	77	75	70	69.9	83	52
28	66	63	60	55	54	55	59	*62*	68	76	77	79	81	*84*	85	85	87	88	85	*83*	82	79	75	71	73.3	90	52
29	71	67	64	60	59	60	59	*58*	57	59	62	63	61	*61*	63	66	62	66	60	*68*	67	66	62	59	62.7	69	56
30	58	57	55	52	51	52	52	*56*	65	70	69	72	75	*75*	73	75	77	78	78	*76*	68	67	65	67	66.0	79	50
Mean	60.5	58.6	56.2	53.8	53.7	52.2	51.9	54.8	60.6	65.4	68.7	71.3	73.6	74.7	75.6	76.5	76.9	77.0	76.1	74.2	71.4	68.2	65.8	63.7	65.9	79.3	48.9

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[June, 1893.

Day.	1-2h		2-3h		3-4h		4-5h		5-6h		6-7h		7-8h		8-9h		9-10h		10-11h		11-Mid.		Max.	Direction.
1	N.	16	N.	17	NW.	23	W.	8	N.	3	*E.*	4	N.	16	N.	13	NW.	6	N.	7	N.	8	29	NW.
2	SE.	10	SE.	11	S.	13	S.	14	SE.	17	SE.	21	SE.	14	SE.	9	S.	3	S.	7	SE.	5	25	SE.
3	SE.	16	S.	19	S.	18	*NE.*	15	NE.	18	NE.	22	N.	26	N.	24	N.	22	N.	17	N.	19	38	N.
4	N.	7	N.	9	N.	12	N.	18	N.	12	N.	18	NW.	22	NW.	15	W.	5	W.	8	W.	5	28	NW.
5	S.	8	S.	9	S.	7	S.	8	SW.	5	SW.	8	W.	5	N.	17	NE.	15	NE.	12	N.	11	22	N.
6	SE.	10	SE.	9	SE.	13	SE.	13	SE.	11	SE.	11	S.	12	S.	10	S.	10	SE.	10	E.	5	15	SE.
7	SE.	7	S.	6	SE.	10	E.	10	SW.	20	W.	27	SW.	20	SW.	10	S.	6	W.	4	N.	6	34	W.
8	*E.*	8	S.	8	W.	14	W.	22	SW.	13	W.	7	W.	6	N.	3	NE	8	N.	9	N.	9	39	W.
9	S.	7	N.	10	NE.	13	E.	6	S.	5	W.	17	N.	13	N.	10	W.	5	N.	4	S.	11	34	N.
10	S.	8	S.	11	SE.	13	SE.	12	S.	12	SE.	13	SE.	10	S.	5	S.	3	N.	4	N.	4	18	SE.
11	SE.	11	SE.	14	S.	16	S.	17	S.	12	W.	11	NW.	20	NW.	16	N.	4	N.	4	N.	5	28	NW.
12	S.	12	S.	12	S.	17	S.	11	S.	13	S.	18	S.	20	S.	19	S.	12	SE.	11	SE.	10	30	S.
13	SW.	19	S.	14	S.	21	S.	16	S.	18	S.	18	S.	16	S.	14	S.	6	SW.	10	W.	5	29	SW.
14	SW.	13	S.	18	S.	20	S.	15	E.	10	N.	18	N.	23	N.	26	N.	24	N.	27	N.	22	32	N.
15	NE.	6	NE.	6	NE.	6	E.	11	*NE.*	7	E.	8	E.	9	E.	8	E.	4	*NW.*	4	N.	5	20	NW.
16	SE.	14	SE.	16	SE.	17	SE.	19	SE.	14	*SE.*	11	*NE.*	4	S.	6	S.	7	S.	13	S.	12	26	SE.
17	*S.*	14	S.	13	S.	12	*SE.*	11	S.	12	S.	12	S.	11	S.	12	S.	7	S.	8	S.	6	15	S.
18	S.	16	S.	14	SE.	15	SE.	15	S.	14	SE.	15	S.	15	SE.	13	S.	7	S.	8	S.	7	19	S.
19	S.	10	S.	10	S.	6	*S.*	5	S.	13	*SW.*	9	SW.	5	S.	11	SE.	5	N.	8	N.	8	17	S.
20	S.	9	SE.	7	NW.	8	*W.*	15	*NW.*	14	SW.	11	*W.*	12	*SW.*	9	*W.*	10	*NW.*	14	N.	16	22	NW.
21	E.	15	E.	7	E.	9	E.	11	E.	16	E.	11	*E.*	11	SE.	7	SE.	6	S.	7	S.	9	26	N.
22	SE.	15	SE.	22	S.	25	S.	21	S.	20	S.	17	S.	17	*SE.*	11	S.	5	N.	5	S.	11	35	SE.
23	*W.*	17	W.	29	W.	19	*SW.*	15	SW.	17	SW.	15	W.	16	W.	14	W.	10	W.	15	NW.	13	36	W.
24	*S.*	11	SE.	10	*SE.*	9	SE.	10	SE.	15	S.	22	SW.	17	E.	4	*E.*	4	*SE.*	8	S.	6	37	SW.
25	S.	9	*S.*	9	SE.	8	*SE.*	13	N.	9	NE.	9	N.	17	NE.	14	*NW.*	10	*NE.*	5	N.	2	21	N.
26	S.	10	*N.*	14	N.	8	NW.	17	*N.*	7	N.	5	N.	7	NW.	45	NW.	17	NW.	16	*W.*	16	60	NW.
27	*SE.*	6	*E.*	8	*SE.*	7	*E.*	10	SE.	6	SE.	11	SE.	10	S.	10	SE.	7	SE.	7	*N.*	4	32	NW.
28	SE.	8	SE.	10	SE.	8	SE.	9	NW.	9	SW.	17	SW.	20	*SW.*	13	S.	10	SE.	9	E.	15	25	SW.
29	SE.	14	SE.	13	S.	6	S.	7	*SE.*	3	*W.*	5	S.	8	S.	10	S.	9	*S.*	13	E.	12	24	SE.
30	SE.	9	SE.	12	SE.	14	SE.	15	SE.	16	S.	18	SE.	13	E.	14	NE.	9	S.	3	*SW.*	7	22	N.
Mean	SE.	11.2	SE. S.	12.4	S.	12.7	SE.	13.0	S.	12.0	S.	13.6	S.	13.8	S.	13.1	S.	8.5	N.	9.2	N.	9.5	.....	.....

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

NOTE.—All eye readings are printed in *italics*

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	1.15	1.17	1.17	1.16	1.18	1.18	1.17	1.17	1.17	1.17	1.14	1.13	1.10	*1.08*	1.07	1.08	1.07	1.02	1.02	1.02	1.02	1.04	1.09	1.14	1.11	1.18	1.02
2	1.17	1.17	1.15	1.13	1.12	1.12	1.13	1.12	1.13	1.14	1.14	1.13	1.10	*1.09*	1.08	1.07	1.06	1.06	1.07	1.09	1.08	1.09	1.11	1.12	1.11	1.17	1.06
3	1.14	1.14	1.13	1.12	1.11	1.10	1.11	1.11	1.11	*1.11*	1.11	1.11	1.09	*1.06*	1.03	1.01	.98	.96	.96	.96	.97	.99	1.02	1.02	1.06	1.14	.96
4	1.02	1.03	1.03	1.04	1.05	1.06	1.07	1.10	1.11	1.10	1.10	1.08	1.08	*1.05*	1.02	.99	.96	.95	.94	.95	.95	.96	.99	1.00	1.03	1.11	.94
5	1.00	1.02	1.01	1.00	.99	.98	1.00	1.01	1.02	1.02	1.01	1.00	.98	*.99*	.94	.93	.96	.91	.90	.90	.90	.90	.91	.93	.97	1.02	.90
6	.94	.93	.92	.92	.91	.91	.91	.93	.94	.93	.92	.92	.91	*.89*	.87	.86	.84	.82	.82	.82	.82	.83	.85	.87	.89	.94	.82
7	.88	.88	.88	.88	.88	.89	.92	.95	.97	.98	.99	1.00	.99	*.99*	.99	.98	.97	.97	.97	.98	1.01	1.06	1.12	1.15	.97	1.15	.88
8	1.15	1.15	1.15	1.20	1.22	1.25	1.26	1.27	1.28	1.27	1.26	1.26	1.25	*1.24*	1.23	1.20	1.17	1.17	1.18	1.20	1.21	1.22	1.22	1.24	1.22	1.28	1.15
9	1.25	1.28	1.25	1.24	1.23	1.23	1.23	1.24	1.24	1.24	1.23	1.22	1.21	*1.20*	1.19	1.19	1.17	1.16	1.16	1.15	1.16	1.15	1.15	1.15	1.20	1.25	1.15
10	1.17	1.17	1.17	1.16	1.15	1.15	1.15	1.15	1.15	1.15	1.14	1.13	1.09	*1.07*	1.05	1.07	1.09	1.10	1.05	1.03	1.03	1.05	1.07	1.07	1.11	1.17	1.03
11	1.07	1.06	1.05	1.03	1.02	1.02	1.02	1.02	1.02	1.02	1.00	1.00	.98	*.96*	.93	.92	.90	.90	.91	.92	.92	.95	.96	.97	.98	1.07	.90
12	.98	.99	.97	.97	.97	.98	1.00	1.02	1.03	1.03	1.05	1.05	1.04	*1.03*	1.02	1.02	1.01	1.01	1.02	1.04	1.05	1.07	1.07	1.08	1.02	1.08	.97
13	1.10	1.10	1.10	1.10	1.10	1.10	1.11	1.11	1.11	1.10	1.10	1.09	1.08	1.07	*1.05*	1.02	1.00	1.00	.96	.96	.96	.97	.97	.98	.99	1.05	1.11	.96
14	1.00	1.00	1.00	1.02	1.03	1.05	1.05	1.05	1.08	1.08	1.06	1.05	1.03	*1.02*	1.01	1.00	1.03	1.00	1.00	1.02	1.05	1.06	1.08	1.09	1.04	1.09	1.00
15	1.10	1.09	1.09	1.09	1.07	1.08	1.08	1.09	1.09	1.09	1.08	1.08	1.07	*1.02*	1.04	1.06	1.05	1.03	1.03	1.03	1.05	1.06	1.08	1.11	1.07	1.11	1.03
16	1.11	1.13	1.13	1.12	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.13	1.13	*1.10*	1.10	1.10	1.07	1.07	1.07	1.07	1.08	1.09	1.12	1.14	1.11	1.14	1.07
17	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.14	*1.15*	1.13	1.13	1.11	*1.09*	1.08	1.08	1.07	1.05	1.05	1.06	1.08	1.11	1.15	1.18	1.11	1.18	1.05
18	1.23	1.25	1.27	1.26	1.26	1.25	1.24	1.24	1.23	1.22	1.22	1.21	1.21	*1.20*	1.20	1.19	1.19	1.19	1.19	1.20	1.23	1.25	1.27	1.27	1.23	1.27	1.19
19	1.28	1.27	1.26	1.26	1.26	1.26	1.26	1.27	1.27	1.28	1.27	1.26	1.24	*1.23*	1.21	1.19	1.18	1.15	1.15	1.17	1.18	1.21	1.23	1.24	1.23	1.28	1.15
20	1.25	1.25	1.24	1.24	1.23	1.23	1.24	1.25	1.25	1.24	1.24	1.23	1.22	*1.20*	1.19	1.17	1.15	1.13	1.14	1.15	1.16	1.17	1.19	1.20	1.21	1.25	1.13
21	1.20	1.18	1.18	1.17	1.16	1.16	1.17	1.17	1.18	1.17	1.16	1.16	1.15	*1.12*	1.11	1.09	1.08	1.06	1.06	1.06	1.07	1.09	1.12	1.13	1.13	1.20	1.06
22	1.13	1.12	1.12	1.11	1.10	1.10	1.11	1.11	1.13	1.13	1.11	1.11	1.10	*1.08*	1.07	1.07	1.05	1.05	1.04	1.04	1.05	1.08	1.11	1.12	1.09	1.13	1.04
23	1.12	1.11	1.11	1.11	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.09	1.08	*1.06*	1.07	1.07	1.08	1.07	1.02	1.01	1.02	1.03	1.06	1.07	1.08	1.12	1.01
24	1.07	1.06	1.05	1.05	1.05	1.06	1.06	1.06	1.07	*1.07*	1.04	1.04	1.04	*1.04*	1.02	1.02	1.00	.99	.99	1.02	1.04	1.06	1.08	1.09	1.04	1.09	.99
25	1.09	1.10	1.10	1.10	1.10	1.11	1.13	1.15	1.17	1.17	1.17	1.18	1.18	*1.18*	1.17	1.17	1.16	1.17	1.19	1.20	1.22	1.22	1.24	1.24	1.16	1.24	1.09
26	1.23	1.25	1.23	1.23	1.21	1.21	1.23	1.23	1.26	1.25	1.24	1.23	1.21	*1.18*	1.17	1.14	1.13	1.11	1.10	1.10	1.15	1.14	1.16	1.15	1.19	1.26	1.10
27	1.12	1.13	1.13	1.12	1.12	1.11	1.10	1.10	1.10	1.10	1.10	1.09	1.08	*1.05*	1.02	1.02	1.02	1.05	1.06	1.07	1.08	1.09	1.10	1.10	1.09	1.13	1.02
28	1.10	1.11	1.12	1.12	1.12	1.13	1.15	1.17	1.18	1.20	1.20	1.20	1.20	*1.20*	1.20	1.20	1.18	1.17	1.15	1.14	1.15	1.17	1.18	1.18	1.16	1.20	1.10
29	1.20	1.24	1.23	1.22	1.20	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	*1.18*	1.17	1.15	1.15	1.16	1.20	1.21	1.19	1.19	1.21	1.21	1.19	1.24	1.15
30	1.19	1.19	1.20	1.20	1.20	1.21	1.22	1.25	1.26	1.27	1.28	1.28	1.28	*1.27*	1.26	1.32	1.35	1.32	1.32	1.32	1.33	1.37	1.38	1.38	1.28	1.38	1.19
31	1.35	1.34	1.34	1.33	1.33	1.34	1.34	1.34	1.34	*1.35*	*1.35*	*1.34*	1.32	*1.30*	1.27	1.24	1.23	1.22	1.22	1.26	1.26	1.26	1.27	1.26	1.30	1.35	1.22
Mean.	1.13	1.13	1.13	1.12	1.12	1.12	1.13	1.14	1.14	1.14	1.14	1.13	1.12	1.10	1.09	1.08	1.08	1.06	1.06	1.07	1.08	1.10	1.12	1.12	1.11	1.17	1.04

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

Day.	0–1h a. m.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Noon.	Noon–1h p. m.
1	SE. 11	*S.* 9	S. 8	S. 7	SE. 7	*SE.* 10	SE. 8	SE. 8	SE. 4	SE. 5	*S.* 7	*SE.* 6	SE. 6
2	NE. 9	F. 7	NE. 5	N. 8	N. 13	N. 11	N. 8	N. 7	N. 3	S. 5	SE. 10	SE. 11	SE. 10
3	E. 8	S. 7	E. 5	N. 2	N. 3	N. 5	N. 5	N. 5	N. 3	E. 4	S. 5	S. 5	SE. 6
4	N. 9	N. 14	N. 9	N. 8	N. 11	N. 9	N. 12	N. 9	N. 9	N. 15	N. 15	NE. 12	S. 7
5	E. 9	*N.* 5	N. 3	N. 3	N. 7	N. 7	N. 6	N. 3	N. 5	S. 4	S. 5	*S.* 4	*S.* 10
6	W. 17	W. 8	*SE.* 4	N. 7	N. 6	N. 3	N. 3	N. 5	*S.* 4	N. 9	NW. 24	NW. 23	E. 10
7	NW. 22	NW. 18	NW. 26	NW. 24	NW. 26	NW. 30	NW. 24	W. 5	*W.* 9	N. 24	N. 20	NE. 12	E. 7
8	W. 6	NE. 10	N. 15	N. 11	NE. 9	E. 5	SW. 4	*SE.* 5	S. 7	S. 14	S. 21	S. 24	S. 26
9	S. 15	SE. 12	SE. 10	SE. 7	SE. 6	SE. 5	SE. 3	SE. 3	SE. 1	S. 2	W. 2	*S.* 4	*S.* 5
10	S. 4	N. 4	N. 5	N. 6	N. 5	N. 3	N. 4	N. 6	N. 3	N. 4	SE. 6	S. 9	*E.* 12
11	NW. 4	N. 4	N. 4	N. 5	N. 7	N. 4	SE. 4	SW. 3	SW. 5	S. 5	SE. 3	S. 5	S. 5
12	N. 6	NW. 28	NW. 31	NW. 18	W. 9	S. 5	N. 5	S. 5	SW. 4	SE. 7	NW. 18	N. 7	NE. 6
13	W. 6	NE. 3	N. 4	N. 3	N. 5	N. 4	N. 8	N. 8	N. 6	N. 2	SE. 3	SE. 5	S. 8
14	N. 8	N. 9	N. 15	N. 27	N. 17	N. 12	N. 13	N. 5	SW. 4	SE. 4	S. 3	SE. 6	SE. 7
15	N. 8	N. 7	N. 6	*N.* 7	*N.* 7	*N.* 10	N. 9	*N.* 8	N. 7	N. 7	N. 7	N. 5	S. 10
16	N. 13	N. 5	N. 5	N. 7	N. 6	N. 8	N. 11	N. 9	N. 9	N. 5	E. 4	S. 12	S. 16
17	S. 10	*NW.* 5	N. 4	N. 6	N. 7	N. 7	N. 7	N. 7	N. 7	N. 8	N. 4	N. 3	S. 13
18	S. 6	S. 6	N. 5	N. 9	*S.* 5	S. 12	S. 8	N. 5	N. 2	*N.* 3	E. 3	E. 5	S. 7
19	SE. 5	N. 5	N. 5	N. 6	N. 4	N. 6	N. 6	N. 5	N. 3	E. 2	E. 2	S. 4	S. 10
20	S. 4	S. 3	*SW.* 4	*N.* 4	N. 3	N. 6	N. 8	N. 10	N. 9	N. 6	*N.* 3	E 5	SE. 6
21	N. 5	N. 6	N. 7	N. 9	N. 8	N. 7	N. 6	N. 8	N. 4	N. 1	*SE.* 3	SE. 6	S. 5
22	N. 4	N. 4	N. 3	N. 5	N. 8	N. 10	N. 7	N. 6	N. 1	*S.* 2	SW. 3	E. 4	SE. 6
23	SE. 4	N. 4	N. 4	N. 5	N. 7	N. 7	N. 9	N. 6	N. 3	NW. 3	SE. 5	SE. 7	S. 9
24	*NE.* 5	N. 4	N. 6	N. 7	N. 7	N. 5	N. 5	N. 7	N. 8	N. 12	N. 13	N. 15	N. 12
25	NW. 12	NW. 12	NW. 12	NW. 7	N. 6	*NE.* 5	N. 8	N. 9	N. 8	N. 18	N. 17	N. 17	N. 19
26	N. 10	N. 9	N. 8	N. 7	N. 7	N. 9	N. 6	*NE.* 4	N. 8	*N.* 3	NE. 5	E. 2	S. 6
27	W. 6	E. 3	SE. 4	S. 3	SE. 3	S. 3	E. 1	N. 4	N. 6	N. 4	W. 4	S. 3	S. 5
28	N. 7	N. 7	N. 10	N. 14	N. 14	N. 11	N. 12	N. 12	N. 9	N. 3	SE. 5	SE. 4	*SE.* 8
29	S. 9	N. 6	S. 4	S. 2	NE. 1	N. 2	N. 4	N. 2	N. 3	SE. 2	NW. 1	W. 2	S. 2
30	SW. 3	SW. 2	N. 6	N. 4	N. 5	N. 4	N. 4	N. 6	E. 1	E. 3	N. 3	N. 18	N. 18
31	N. 5	N. 7	N. 7	N. 6	SE. 2	N. 5	N. 4	N. 4	N. 5	N. 5	N. 18	S. 7	S. 10
Mean.	N. 8.1	N. 7.5	N. 7.8	N. 7.9	N. 7.4	N. 7.4	N. 7.2	N. 6.2	N. 5.2	N. 6.0	N. 7.3	S. 8.3	S. 9.3

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [July, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	64	61	62	59	60	60	59	*58*	61	61	65	69	73	*76*	78	74	74	79	81	*79*	74	69	69	68	68.0	81	57
2	66	62	59	55	55	55	57	*58*	61	63	65	69	72	*74*	76	77	81	80	72	*71*	71	70	67	70	66.9	81	54
3	66	63	59	56	53	52	51	*52*	59	*64*	64	68	73	*80*	84	88	89	89	89	*88*	86	78	75	71	70.7	89	51
4	64	61	67	68	65	65	61	*55*	73	77	79	84	85	*86*	87	89	90	93	88	*86*	83	82	70	77	77.1	93	58
5	71	69	64	61	56	56	55	*62*	64	69	72	77	83	*86*	86	81	83	82	84	*82*	80	79	76	80	73.2	87	54
6	78	77	73	72	70	68	67	*67*	70	78	81	82	84	*85*	87	87	88	88	87	*86*	83	78	80	78	78.9	90	65
7	75	78	78	78	77	78	76	*73*	72	71	74	77	80	*81*	83	84	83	83	83	*81*	79	77	66	62	77.0	85	72
8	62	58	59	59	58	57	55	*56*	56	59	58	60	57	*59*	61	64	66	67	66	*66*	64	62	60	60	60.3	68	55
9	58	57	56	56	56	56	56	*56*	57	61	65	68	72	*73*	73	75	76	80	80	*78*	75	74	75	70	66.8	81	55
10	78	64	63	61	60	59	55	*63*	68	*73*	74	75	81	*89*	89	73	73	70	72	*74*	72	71	68	66	69.7	82	53
11	61	60	59	57	55	56	60	*60*	67	72	78	81	84	*86*	86	85	86	86	81	*81*	78	74	72	67	72.2	87	53
12	67	70	72	71	60	63	66	*62*	71	78	81	81	84	*84*	82	83	82	81	76	*73*	70	68	69	68	73.8	86	62
13	67	63	62	58	58	54	55	*57*	64	70	72	74	75	*77*	81	82	81	84	83	*76*	74	71	70	64	69.7	84	52
14	63	64	67	65	61	65	61	*63*	65	69	74	76	78	*79*	77	76	70	77	75	*73*	74	67	64	59	69.2	79	58
15	58	57	54	54	52	51	55	*56*	64	72	74	77	78	*79*	78	71	77	77	76	*74*	72	69	66	68	67.0	80	49
16	65	63	58	55	55	50	49	*55*	64	72	76	78	80	*80*	81	78	80	77	76	*77*	74	76	69	66	68.9	82	50
17	63	60	56	55	51	51	52	*56*	64	*68*	74	76	80	*81*	83	82	81	78	78	*77*	75	71	68	65	68.5	84	49
18	63	59	58	60	59	57	57	*56*	60	65	70	73	75	*76*	77	75	75	73	73	*72*	70	67	66	64	66.7	78	54
19	60	57	56	54	51	50	48	*52*	61	65	68	72	74	*76*	79	80	80	78	77	*76*	73	70	67	66	66.2	81	47
20	66	60	59	55	53	51	49	*55*	64	72	75	76	78	*80*	81	81	82	82	82	*79*	75	71	69	66	69.2	84	51
21	67	66	60	60	62	62	61	*61*	68	74	78	78	80	*83*	85	85	85	85	84	*82*	80	75	74	*72*	73.6	86	58
22	*70	*62	*55	*53	*55	*56	*56	*57	61	64	71	76	80	*81*	81	80	80	79	79	*80*	76	74	73	69	69.5	82	52
23	66	63	61	59	56	56	57	*59*	69	71	74	76	78	*76*	73	72	68	72	74	*77*	74	70	65	64	67.9	79	55
24	62	58	59	58	58	56	58	*61*	70	*75*	77	79	81	*82*	83	83	84	81	82	*76*	77	75	73	71	71.7	85	54
25	72	72	73	72	67	63	63	*65*	69	71	72	74	74	*75*	78	75	70	68	67	*65*	62	62	62	60	68.8	79	61
26	60	60	59	58	59	59	60	*60*	60	62	64	65	68	*70*	72	73	73	71	65	*64*	61	61	60	59	63.5	75	57
27	59	59	58	57	56	55	54	*55*	58	63	66	73	78	*79*	79	74	73	69	63	*63*	63	63	62	61	64.2	80	55
28	60	59	59	60	60	58	60	*62*	65	69	70	71	71	*71*	73	74	74	74	74	*74*	72	69	66	66	67.1	76	56
29	64	63	63	61	60	59	57	*56*	60	63	68	70	76	*77*	81	82	78	69	64	*60*	63	63	61	63	65.9	83	55
30	62	60	58	58	59	59	57	*60*	61	65	71	73	74	*76*	73	58	55	55	58	*59*	59	60	61	59	62.1	76	57
31	59	57	56	57	56	56	57	*57*	58	*62*	62	64	65	*66*	67	67	67	67	66	*55*	54	59	57	57	60.3	66	54
Mean.	65.0	62.6	61.4	60.1	58.8	57.8	57.5	59.2	64.0	68.3	71.4	73.9	76.5	77.9	78.9	77.7	77.5	77.3	76.0	74.3	72.4	70.2	68.1	66.3	68.9	81.6	55.3

* Interpolated.

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[July, 1893.

Day.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Mid.	Max.	Direction.
1	SE. 8	SE. 8	SE. 10	SE. 12	*E.* 7	E. 5	SW. 6	SW. 4	NW. 5	N. 10	NW. 9	23	E.
2	SE. 9	SE. 11	S. 9	S. 7	N. 4	E. 8	E. 10	W. 9	N. 7	N. 7	N. 6	17	E.
3	SE. 9	SE. 11	SE. 13	SE. 15	SE. 17	SE. 18	SE. 16	SE. 11	*NE.* 6	N. 7	N. 6	21	SE.
4	S. 13	SE. 14	SE. 17	SE. 19	S. 18	S. 22	S. 18	S. 18	SW. 12	*SW.* 7	E. 10	29	SW.
5	SE. 6	*W.* 6	W. 18	SW. 24	SW. 10	*SW.* 16	SW. 19	SW. 12	E. 5	E. 7	NE. 7	38	W.
6	SE. 9	W. 10	W. 17	W. 18	W. 16	*SW.* 16	S. 16	SW. 10	SW. 8	NW. 9	NW. 14	33	NW.
7	SE. 9	SE. 10	*S.* 12	*SE.* 11	S. 12	*S.* 11	SE. 11	E. 12	E. 11	NE. 14	E. 8	37	NW.
8	S. 25	S. 22	SE. 20	SE. 24	SE. 21	SE. 15	SE. 14	S. 16	S. 18	SE. 19	S. 12	30	S.
9	S. 9	SE. 10	SE. 10	SE. 11	SE. 13	*SE.* 11	S. 10	SE. 7	*S.* 5	SW. 7	E. 7	19	S.
10	*S.* 16	*SE.* 14	S. 16	SW. 17	SW. 14	N. 8	N. 6	NE. 4	SW. 4	N. 3	N. 5	27	S.
11	S. 7	*SE.* 8	SE. 10	*S.* 8	*SE.* 6	NW. 23	*N.* 8	*NE.* 10	N. 6	N. 3	N. 6	34	NW.
12	*NE.* 7	S. 4	S. 10	*E.* 11	E. 14	E. 11	W. 9	SE. 7	N. 11	N. 7	N. 6	39	NW.
13	S. 10	SE. 10	SE. 14	N. 9	E. 6	*E.* 5	N. 15	N. 8	N. 7	N. 5	N. 6	28	N.
14	S. 9	S. 14	S. 15	SW. 22	S. 9	SE. 15	S. 12	E. 7	SE. 4	SE. 1	N. 5	34	N.
15	S. 11	S. 12	*N.* 14	S. 10	SE. 12	N. 13	N. 17	N. 9	N. 7	N. 7	N. 7	27	N.
16	SE. 14	S. 14	S. 13	S. 15	E. 6	N. 21	NE. 13	E. 7	W. 10	SW. 12	S. 8	33	N.
17	S. 8	E. 8	SE. 6	S. 14	S. 17	E. 11	SE. 8	SE. 5	SE. 5	*E.* 6	E. 3	22	SE.
18	S. 11	SE. 12	S. 12	SE. 14	SE. 11	SE. 12	SE. 11	S. 11	S. 11	S. 6	S. 7	21	S.
19	S. 9	S. 8	S. 9	S. 10	S. 12	SE. 14	SE. 12	SE. 10	S. 4	S. 2	S. 5	18	SE.
20	E. 6	E. 7	S. 9	S. 11	S. 10	S. 10	S. 8	S. 5	S. 3	N. 4	N. 6	16	S.
21	E. 7	E. 11	E. 10	SE. 11	SE. 9	E. 10	E. 9	E. 9	E. 6	S. 3	SW. 3	14	SE.
22	SE. 8	E. 10	E. 14	*SE.* 15	*E.* 13	SE. 15	SE. 10	SE. 11	SE. 14	S. 7	S. 9	19	E.
23	SW. 10	SW. 16	NW. 18	W. 23	W. 12	E. 6	NW. 5	W. 2	S. 2	N. 4	NE. 5	30	W.
24	N. 10	E. 5	*E.* 6	E. 6	E. 8	E. 5	W. 10	*NW.* 11	NW. 13	NW. 15	*N.* 5	25	NW.
25	N. 18	N. 17	NE. 17	N. 27	N. 25	N. 24	N. 10	N. 11	N. 9	N. 10	N. 13	31	N.
26	S. 6	S. 9	S. 10	S. 13	S. 10	*SW.* 9	*SE.* 10	E. 7	SE. 3	N. 8	N. 4	19	W.
27	S. 10	S. 11	S. 12	E. 16	W. 8	W. 16	NW. 7	SW. 7	NE. 5	N. 4	N. 4	26	E.
28	SE. 8	S. 10	S. 14	S. 16	W. 9	S. 7	S. 11	S. 6	S. 6	S. 13	S. 12	19	S.
29	W. 2	W. 3	E. 8	NE. 12	W. 15	S. 16	W. 15	SW. 8	N. 6	N. 7	N. 6	25	W.
30	N. 15	N. 14	N. 16	SE. 12	SE. 2	N. 9	N. 9	N. 9	N. 3	NE. 1	E. 6	38	S.
31	S. 10	S. 14	S. 16	S. 14	S. 15	S. 12	S. 12	NW. 7	W. 5	S. 11	S. 6	22	W.
Mean.	S. 10.0	S. 10.7	S. 12.7	SE. 14.4	SE. / S.	SE. 11.6	SE. / S.	12.7	SE. 11.2	SE. / S.	8.6	S. 7.1	N. 7.3	N. 7.0	.....	.....

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

NOTE.—All eye readings are printed in *italics*.

August, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	1.25	1.22	1.21	1.20	1.20	1.20	1.20	*1.20*	1.20	1.19	1.19	1.19	1.19	*1.16*	1.15	1.18	1.18	1.18	1.14	1.14	1.17	1.18	1.19	1.21	1.19	1.25	1.14
2	1.19	1.18	1.18	1.17	1.17	1.16	1.17	*1.18*	1.18	1.18	1.18	1.18	1.18	*1.17*	*1.17*	1.16	1.16	1.16	1.16	*1.16*	*1.17*	1.18	1.20	1.21	1.21	1.21	1.16
3	1.21	1.20	1.19	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.12	1.12	1.13	1.15	1.17	1.18	1.18	1.17	1.21	1.12
4	1.18	1.17	1.17	1.17	1.16	1.16	1.18	*1.18*	1.19	1.19	1.19	1.19	1.18	*1.17*	1.16	1.15	1.13	1.12	1.16	*1.18*	1.23	1.21	1.22	1.24	1.18	1.24	1.12
5	1.23	1.22	1.21	1.20	1.20	1.20	1.21	*1.22*	1.22	1.23	1.23	1.23	1.22	*1.21*	1.19	1.19	1.16	1.13	1.14	*1.16*	1.18	1.19	1.20	1.22	1.20	1.23	1.13
6	1.22	1.21	1.20	1.20	1.20	1.20	1.20	*1.20*	1.20	1.20	1.19	1.19	1.18	*1.16*	1.14	1.13	1.12	1.10	1.10	*1.10*	1.10	1.11	1.12	1.11	1.16	1.22	1.10
7	1.10	1.09	1.08	1.08	1.07	1.06	1.06	*1.06*	1.06	*1.06*	1.04	1.03	1.03	*1.02*	1.01	1.00	1.02	1.06	1.05	*1.05*	1.05	1.05	1.06	1.07	1.05	1.10	1.00
8	1.07	1.07	1.07	1.07	1.08	1.09	1.11	*1.14*	1.14	1.14	1.14	1.14	1.13	*1.11*	1.09	1.05	1.05	1.04	1.03	*1.05*	1.06	1.09	1.11	1.12	1.09	1.14	1.03
9	1.13	1.12	1.09	1.07	1.04	1.03	1.00	.98	.99	1.00	1.02	1.02	1.03	*1.01*	1.00	1.00	1.00	1.01	1.01	*1.00*	1.01	1.01	1.02	1.02	1.02	1.13	.98
10	1.02	1.02	1.02	1.02	1.02	1.03	1.04	*1.05*	1.07	1.08	1.11	1.12	1.12	*1.11*	1.10	1.09	1.08	1.08	1.08	1.08	1.10	1.12	1.16	1.18	1.08	1.18	1.02
11	1.19	1.18	1.19	1.20	1.20	1.21	1.22	*1.24*	1.25	1.25	1.24	1.23	1.22	*1.20*	1.18	1.17	1.13	1.14	1.14	*1.13*	1.14	1.15	1.15	1.15	1.19	1.25	1.13
12	1.15	1.15	1.14	1.13	1.12	1.11	1.10	*1.12*	1.12	1.11	1.10	1.10	1.10	*1.10*	1.10	1.08	1.07	1.07	*1.07*	1.09	1.12	1.14	1.18	1.11	1.18	1.07
13	1.10	1.10	1.18	1.17	1.17	1.16	1.16	*1.17*	1.17	1.16	1.15	1.14	1.12	*1.10*	1.07	1.05	1.03	1.01	1.00	*1.00*	1.03	1.04	1.04	1.03	1.10	1.19	1.00
14	1.03	1.03	1.02	1.02	1.02	1.03	1.03	*1.03*	1.03	*1.04*	1.06	1.08	1.05	*1.04*	1.05	1.01	.99	.98	1.00	*1.00*	1.05	1.05	1.03	1.03	1.03	1.06	.98
15	1.02	1.01	1.01	1.02	1.03	1.04	1.05	*1.07*	1.08	1.09	1.09	1.09	1.07	*1.06*	1.05	1.04	1.02	1.02	1.04	*1.03*	1.05	1.08	1.12	1.14	1.06	1.14	1.01
16	1.16	1.16	1.15	1.14	1.15	1.18	1.19	1.19	1.20	1.20	1.20	1.20	1.17	*1.15*	1.14	1.11	1.10	1.10	1.10	*1.10*	1.12	1.13	1.14	1.12	1.15	1.20	1.10
17	1.12	1.13	1.12	1.10	1.10	1.10	1.10	*1.10*	1.10	1.10	1.10	1.10	1.10	*1.08*	1.10	1.10	1.08	1.08	1.08	*1.10*	1.13	1.13	1.14	1.14	1.10	1.14	1.08
18	1.14	1.15	1.14	1.15	1.15	1.16	1.17	*1.17*	1.17	1.16	1.16	1.16	1.14	*1.13*	1.12	1.13	1.08	1.10	1.11	*1.11*	1.10	1.10	1.12	1.12	1.14	1.17	1.08
19	1.12	1.13	1.12	1.11	1.10	1.09	1.09	*1.11*	1.11	1.11	1.11	1.11	1.11	*1.09*	1.09	1.08	1.08	1.08	1.08	*1.08*	1.08	1.10	1.11	1.11	1.10	1.13	1.08
20	1.12	1.13	1.13	1.12	1.12	1.13	1.13	*1.13*	1.13	1.14	1.14	1.14	1.15	*1.16*	1.13	1.13	1.12	1.12	1.14	*1.13*	1.14	1.14	1.14	1.13	*1.16*	1.12
21	1.14	1.11	1.11	1.11	1.10	1.08	1.09	*1.09*	1.09	*1.08*	1.07	1.06	1.05	*1.04*	1.03	1.02	1.01	1.00	.99	.97	.97	.97	.98	.98	1.05	1.14	.97
22	.99	.99	1.00	1.00	1.01	1.01	1.02	*1.04*	1.05	1.05	1.04	1.04	1.03	*1.02*	1.01	1.00	1.00	1.00	.99	*1.00*	1.02	1.02	1.04	1.05	1.02	1.05	.99
23	*1.06*	*1.06*	*1.06*	1.05	*1.04*	*1.04*	*1.04*	*1.05*	*1.05*	*1.06*	*1.06*	1.06	1.05	*1.05*	*1.04*	*1.04*	*1.05*	*1.04*	1.04	*1.07*	*1.09*	1.11	1.13	1.13	1.20	1.07	1.03
24	1.21	1.23	1.23	1.22	1.22	1.22	1.22	*1.23*	1.22	1.22	1.23	1.23	1.21	*1.19*	1.18	1.17	1.16	1.15	1.15	*1.14*	1.15	1.17	1.18	1.18	1.20	1.23	1.14
25	1.18	1.17	1.16	1.16	1.15	1.14	1.14	*1.14*	1.14	1.13	1.13	1.12	1.10	*1.07*	1.06	1.04	1.02	.99	.99	.99	1.00	1.01	1.02	1.03	1.09	1.18	.99
26	1.04	1.04	1.04	1.04	1.03	1.03	1.03	*1.04*	1.04	1.04	1.04	1.04	1.03	*1.02*	1.01	1.00	.98	.99	1.02	*1.05*	1.06	1.11	1.17	1.17	1.04	1.17	.98
27	1.18	1.23	1.22	1.22	1.25	1.26	1.27	1.28	1.30	1.31	1.32	1.31	1.29	*1.27*	1.26	1.25	1.24	1.23	1.23	*1.24*	1.24	1.25	1.27	1.28	1.26	1.32	1.18
28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	*1.28*	1.29	*1.30*	1.30	1.30	1.27	*1.26*	1.24	1.22	1.21	1.20	1.20	*1.19*	1.20	1.21	1.22	1.23	1.25	1.30	1.19
29	1.23	1.23	1.22	1.21	1.21	1.21	1.21	*1.21*	1.21	1.21	1.21	1.21	1.19	*1.17*	1.19	1.19	1.17	1.16	1.16	*1.17*	1.19	1.21	1.22	1.24	1.20	1.24	1.16
30	1.26	1.26	1.26	1.26	1.25	1.24	1.24	*1.23*	1.23	1.23	1.22	1.21	1.19	*1.17*	1.16	1.15	1.14	1.13	1.12	*1.11*	1.11	1.13	1.14	1.15	1.19	1.26	1.11
31	1.14	1.14	1.14	1.14	1.15	1.15	1.16	*1.17*	1.17	1.17	1.19	1.21	1.22	*1.22*	1.23	1.23	1.23	1.25	1.26	*1.27*	1.29	1.31	1.33	1.34	1.21	1.34	1.13
Mean..	1.15	1.14	1.14	1.14	1.14	1.14	1.14	*1.14*	1.15	1.15	1.15	1.15	1.14	1.12	1.12	1.11	1.10	1.09	1.10	*1.10*	1.11	1.12	1.14	1.15	1.13	1.19	1.08

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

August, 1893.]

Day.	0–1h a. m.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Noon.	Noon–1h p. m.
1	S. 6	S. 6	S. 2	SE. 2	W. 1	W. 3	W. 2	W. 1	W. 1	W. 2	S. 4	E. 3	*S.* 3
2	*W.* 3	E. 2	S. 3	E. 2	N. 2	*N.* 1	*NW.* 2	SW. 2	SW. 2	SW. 2	SW. 3	SW. 4	S. 6
3	SE. 4	SE. 3	SE. 5	S. 3	S. 1	S. 2	NW. 2	N. 4	N. 7	N. 5	N. 4	*E.* 3	*NE.* 6
4	NE. 3	N. 5	N. 6	N. 10	N. 9	N. 10	N. 10	N. 9	N. 9	N. 6	N. 6	N. 7	N. 10
5	W. 6	N. 4	N. 4	N. 7	N. 6	N. 5	N. 5	N. 6	N. 2	N. 4	N. 1	S. 4	S. 10
6	SE. 8	N. 2	N. 2	N. 3	N. 3	N. 5	N. 5	N. 5	N. 4	NE. 4	*SE.* 5	*SW.* 6	S. 11
7	N. 4	N. 5	N. 6	N. 6	N. 7	N. 7	N. 8	S. 5	N. 4	N. 2	SW. 2	S. 4	S. 6
8	N. 3	N. 6	*NW.* 7	N. 6	N. 7	N. 8	N. 17	N. 15	N. 12	N. 18	N. 18	N. 19	N. 10
9	E. 6	W. 10	S. 8	NW. 3	N. 6	N. 7	N. 6	N. 6	SE. 5	*S.* 3	*S.* 3	*S.* 9	S. 7
10	N. 6	N. 6	N. 6	N. 6	N. 7	N. 7	N. 7	N. 8	N. 6	N. 17	N. 24	N. 22	N. 19
11	S. 5	S. 11	SE. 13	SE. 17	SE. 12	S. 10	SE. 9	SE. 5	*E.* 7	SE. 9	*SE.* 9	S. 9	*S.* 8
12	S. 3	N. 3	N. 4	N. 4	N. 2	N. 4	N. 4	N. 6	N. 9	N. 6	S. 6	*NW.* 4	S. 9
13	*SW.* 4	N. 4	N. 4	N. 6	N. 7	N. 7	N. 9	N. 11	N. 8	N. 5	NE. 4	*E.* 5	S. 8
14	N. 7	N. 6	N. 8	N. 8	N. 16	N. 22	NE. 19	NE. 11	N. 11	N. 22	N. 24	S. 9	S. 8
15	N. 2	N. 6	N. 7	N. 10	N. 15	N. 10	N. 5	N. 4	N. 9	N. 16	N. 16	N. 12	N. 6
16	S. 9	S. 3	NW. 2	N. 7	N. 10	N. 13	N. 15	N. 12	N. 5	N. 6	E. 3	S. 8	S. 13
17	NE. 5	N. 3	N. 3	N. 4	N. 4	N. 5	N. 8	N. 5	N. 2	N. 3	S. 3	S. 8	E. 4
18	N. 7	N. 7	N. 8	N. 8	N. 5	N. 6	S. 4	N. 5	N. 5	NE. 3	S. 6	S. 6	S. 6
19	NW. 4	E. 5	SW. 2	N. 6	N. 9	N. 8	N. 7	N. 6	N. 5	N. 7	S. 2	S. 11	S. 10
20	N. 5	N. 6	N. 4	N. 7	N. 6	N. 2	N. 9	N. 8	N. 5	N. 7	S. 6	S. 8	S. 8
21	*W.* 3	E. 4	SE. 1	SE. 2	S. 2	W. 3	S. 2	S. 2	*S.* 3	SW. 2	S. 4	*E.* 3	*S.* 3
22	S. 2	N. 8	N. 15	N. 18	N. 18	NW. 27	NW. 16	NW. 13	NW. 6	E. 5	*S.* 5	S. 7	S. 6
23	N. 7	N. 6	N. 5	N. 6	N. 8	N. 10	N. 7	N. 9	N. 6	*NE.* 5	E. 4	S. 5	N. 4
24	N. 6	N. 4	SW. 2	SW. 3	SW. 3	N. 3	N. 8	N. 6	N. 4	N. 4	N. 3	SE. 4	S. 7
25	S. 2	SE. 4	*NE.* 2	N. 5	N. 6	N. 6	N. 7	N. 8	N. 7	N. 4	NE. 1	SE. 3	S. 5
26	N. 9	N. 9	N. 9	N. 11	N. 9	N. 9	N. 10	N. 8	N. 6	N. 7	N. 8	*NE.* 8	
27	N. 10	*NE.* 14	NE. 15	N. 15	N. 9	N. 9	*NE.* 4	N. 3	NE. 3	S. 7	S. 10	S. 11	S. 14
28	SE. 3	SE. 4	SE. 2	SE. 2	SE. 2	SE. 1	SE. 1	SE. 1	SE. 4	SE. 4	S. 4	SW. 3	S. 5
29	*N.* 4	N. 3	N. 4	N. 5	N. 6	N. 6	N. 7	N. 8	N. 6	N. 3	*NE.* 1	S. 2	S. 7
30	N. 4	N. 4	N. 6	N. 5	N. 8	N. 8	N. 8	N. 10	N. 9	N. 7	E. 2	SE. 5	S. 8
31	E. 2	N. 5	N. 6	SE. 4	N. 9	N. 13	NE. 17	N. 16	N. 19	N. 26	N. 21	N. 23	N. 25
Mean..	N. 5.0	N. 5.4	N. 5.5	N. 6.3	N. 6.8	N. 7.6	N. 7.5	N. 6.8	N. 6.1	N. 7.1	N. 6.7	S. 7.5	S. 8.4

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [August, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	58	57	56	55	54	53	53	*55*	57	58	60	64	66	67	67	61	61	60	64	*68*	63	60	59	57	59.7	68	54
2	57	56	55	54	54	54	54	*54*	54	56	60	62	64	*66*	67	69	70	69	69	*66*	63	61	60	60	60.6	70	54
3	59	59	58	57	57	57	56	*57*	57	61	68	74	75	*76*	78	78	78	79	78	*76*	70	67	65	62	66.8	80	56
4	60	57	55	56	55	56	57	*61*	65	72	74	76	78	*79*	79	80	78	78	67	*67*	63	62	66	64	66.9	81	53
5	61	60	60	59	59	58	58	*60*	62	66	69	71	72	*73*	74	75	76	75	75	*73*	70	68	67	65	66.9	76	55
6	63	61	59	57	57	54	52	*54*	*58	*62	*66	*70	*72	*75	*76	*78	*76	*75	*74	*73	72	68	63	62	65.7	78	52
7	60	59	55	54	54	53	53	*55*	61	*67*	73	75	78	*80*	80	79	72	70	71	*70*	70	68	63	67	66.1	81	52
8	66	64	64	61	60	60	60	*62*	63	64	65	65	68	*70*	72	74	64	68	71	*67*	66	62	61	58	64.8	76	58
9	58	58	58	57	55	55	57	*62*	61	66	68	69	71	*74*	76	72	70	64	65	*66*	69	68	65	64	64.5	77	54
10	62	62	62	61	60	62	60	*60*	62	64	63	64	68	*70*	73	75	74	74	73	*70*	68	67	66	63	66.0	75	56
11	62	60	59	58	57	56	53	*52*	54	55	57	60	63	*65*	68	70	71	72	72	*71*	69	67	64	63	62.4	72	51
12	60	56	57	55	54	55	55	*55*	60	70	74	76	76	*77*	76	79	79	79	76	*76*	73	68	63	62	67.1	81	54
13	62	60	56	56	54	52	51	*55*	62	70	71	77	79	*80*	80	82	81	82	82	*79*	77	76	67	64	69.0	83	50
14	63	60	58	57	65	67	63	*68*	71	72	75	74	73	*74*	76	76	76	75	69	*64*	59	58	59	59	67.1	77	56
15	59	58	58	58	62	58	56	*59*	62	64	66	69	72	*73*	71	66	69	62	57	*60*	59	60	63	59	62.5	73	55
16	57	55	52	50	53	53	51	*53*	56	61	64	65	66	*67*	67	69	70	67	67	*66*	64	63	60	60	60.7	71	51
17	58	58	57	57	56	54	54	*54*	60	65	75	75	80	*81*	72	71	74	73	72	*72*	70	69	67	65	66.2	82	53
18	63	64	64	61	61	58	56	*54*	56	65	70	72	72	*72*	74	74	77	75	71	*67*	65	64	63	64	65.9	78	53
19	63	62	60	56	55	56	57	*60*	65	73	73	71	73	*76*	77	75	75	75	74	*73*	70	68	65	64	67.3	78	55
20	59	61	60	57	56	59	56	*60*	61	65	73	70	65	*63*	69	72	70	66	63	*64*	63	63	62	61	63.0	76	55
21	61	60	58	58	58	58	57	*58*	59	*63*	64	68	70	*73*	74	77	65	69	69	*69*	68	66	65	63	64.5	77	57
22	64	70	70	69	69	68	66	*61*	66	70	71	73	74	*75*	77	78	79	79	78	*77*	71	65	66	63	70.8	80	61
23	61	59	58	56	54	52	55	*55*	64	71	75	77	78	*79*	78	78	75	72	70	*68*	64	62	60	58	65.8	82	52
24	55	54	54	54	54	52	50	*52*	56	62	65	65	67	*68*	69	70	69	69	70	*68*	64	63	60	60	61.2	71	49
25	58	57	54	54	51	50	50	*51*	55	63	70	72	75	*77*	79	80	80	80	80	*78*	72	64	62	61	65.5	80	48
26	57	55	54	54	57	53	58	*60*	66	74	78	79	81	*81*	81	81	85	78	75	*73*	70	65	63	62	68.3	86	52
27	61	59	56	54	54	53	52	*52*	51	50	52	54	55	*57*	57	57	56	56	55	*54*	53	52	50	50	54.2	59	52
28	51	51	51	51	51	51	51	*51*	52	*54*	55	56	60	*62*	64	64	64	64	61	*64*	60	58	58	56	56.8	66	51
29	54	50	48	47	46	45	44	45	51	58	65	68	71	*72*	70	72	73	72	72	*69*	66	57	56	55	59.4	75	43
30	52	49	49	45	46	44	43	*44*	52	63	68	71	72	*74*	74	74	75	73	72	*70*	66	63	60	59	60.8	77	42
31	56	52	54	53	53	55	55	*53*	55	55	57	56	56	*54*	52	54	52	51	52	*53*	51	51	52	52	53.6	56	51
Mean..	59.4	58.2	57.1	55.8	55.8	55.2	54.4	55.9	59.2	63.8	67.2	69.0	70.6	71.9	72.5	72.9	72.0	71.0	69.9	68.7	66.1	63.6	61.9	60.7	63.9	75.5	52.7

* Interpolated; clock stopped.

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[August, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.		Direction.
1	S.	6	S.	5	*NE.*	8	N.	9	N.	4	N.	4	NW.	4	NW.	4	S.	7	SE.	4	*N.*	4	15		NE.
2	SE.	6	S.	7	S.	8	S.	7	S.	11	*SE.*	12	SE.	14	*S.*	14	SE.	9	SE.	5	SE.	5	17		N.
3	NE.	6	E.	6	*N.*	5	*E.*	6	*N.*	7	*E.*	6	E.	5	S.	7	S.	9	SE.	6	E.	2	10		N.
4	N.	11	NE.	12	NE.	13	NE.	13	E.	13	*N.*	15	NW.	25	N.	16	NW.	24	NW.	19	N.	9	31		NW.
5	S.	12	S.	12	S.	14	S.	13	S.	14	SE.	13	SE.	12	S.	8	S.	7	S.	8	SE.	7	17		S.
6	*S.*	14	*SE.*	17	*S.*	17	*SE.*	15	SE.	11	SE.	12	SE.	8	S.	3	S.	1	*NE.*	2	N.	5	21		S.
7	S.	7	S.	7	S.	7	*N.*	13	N.	15	N.	9	N.	6	N.	2	SW.	5	N.	7	N.	7	26		N.
8	N.	9	N.	5	E.	4	*NE.*	12	NW.	16	NW.	7	N.	10	N.	8	E.	6	W.	3	SE.	5	38		NW.
9	S.	7	S.	5	*SW.*	6	*E.*	11	NW.	13	N.	9	N.	13	N.	12	N.	8	N.	5	N.	7	19		N.
10	N.	14	N.	5	*N.*	4	S.	7	SE.	8	*SE.*	11	S.	10	S.	7	S.	6	*S.*	5	*NE.*	6	31		N.
11	S.	10	*SE.*	12	SE.	16	*S.*	21	SE.	18	*E.*	14	SE.	12	S.	5	S.	4	E.	3	S.	2	25		S.
12	S.	7	NE.	13	*NE.*	4	*N.*	4	N.	7	N.	7	N.	9	N.	8	N.	4	N.	6	N.	3	18		NE.
13	S.	11	S.	13	SE.	13	SE.	10	E.	10	S.	11	S.	12	S.	7	N.	12	N.	6	N.	7	16		S.
14	S.	8	S.	10	SE.	10	S.	5	*E.*	4	S.	4	S.	6	SW.	11	S.	12	W.	3	NE.	4	29		NW.
15	*S.*	3	S.	9	S.	8	NE.	6	*E.*	10	N.	8	S.	13	W.	4	N.	6	N.	7	N.	14	23		W.
16	SE.	14	SE.	17	S.	19	S.	21	S.	22	S.	17	S.	11	S.	9	E.	8	SW.	6	SW.	4	26		S.
17	*E.*	7	N.	9	S.	10	W.	7	W.	7	S.	9	S.	5	NE.	14	*N.*	7	NW.	8	N.	6	22		NE.
18	S.	6	S.	5	S.	7	S.	7	S.	6	W.	6	E.	9	*SW.*	8	N.	5	N.	4	*E.*	4	14		E.
19	S.	9	S.	10	S.	9	S.	7	SW.	2	S.	2	S.	1	NW.	3	N.	4	N.	6	N.	5	13		S.
20	N.	17	N.	14	N.	6	W.	5	SW.	7	S.	11	S.	2	E.	5	SW.	4	W.	3	W.	1	25		N.
21	S.	8	S.	5	S.	6	SE.	12	N.	11	N.	5	*N.*	5	NW.	2	SE.	3	N.	3	N.	4	33		N.
22	S.	7	S.	10	S.	10	SE.	9	E.	8	S.	7	S.	6	S.	3	W.	4	N.	5	N.	5	31		NW.
23	E.	4	*E.*	6	S.	6	E.	8	NE.	13	N.	7	N.	13	N.	9	NE.	11	N.	14	N.	9	18		W.
24	S.	13	S.	14	S.	13	S.	14	S.	8	S.	9	SE.	12	S.	7	S.	5	S.	1	S.	1	19		N.
25	S.	6	S.	7	S.	6	S.	8	SE.	6	E.	6	SE.	5	S.	2	N.	4	N.	7	N.	6	12		S.
26	NE.	9	E.	7	E.	7	S.	4	N.	12	N.	11	NE.	13	N.	12	N.	21	N.	16	N.	20	26		N.
27	S.	14	S.	16	S.	14	S.	15	S.	14	S.	13	S.	13	SE.	8	SE.	4	SE.	2	SE.	1	20		S.
28	SE.	9	S.	13	S.	14	S.	13	S.	10	S.	12	S.	8	S.	6	SE.	6	SE.	8	SE.	9	17		SE.
29	S.	8	W.	16	W.	18	NW.	20	W.	11	NW.	10	W.	10	*W.*	7	*E.*	4	N.	5	NE.	6	36		NW.
30	S.	11	S.	15	S.	11	S.	14	S.	18	S.	13	S.	13	S.	6	SE.	5	SE.	7	SE.	4	21		S.
31	N.	24	N.	16	N.	16	N.	16	N.	11	N.	5	*E.*	3	E.	3	NW.	4	NW.	2	*NW.*	2	31		N.
Mean..	S.	9.5	S.	10.3	S.	10.0	S.	10.7	W. S.	10.5	S.	9.2	S.	9.3	S.	7.1	N.	7.1	N.	6.0	N.	5.6			

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

NOTE.—All eye readings are printed in *italics*.

September, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	1.35	1.35	1.35	1.35	1.35	1.35	1.36	*1.37*	1.38	1.38	1.38	1.38	1.37	*1.34*	1.34	1.32	1.30	1.27	1.26	*1.26*	1.27	1.28	1.28	1.28	1.33	1.38	1.26
2	1.28	1.26	1.25	1.25	1.24	1.23	1.22	*1.22*	1.22	1.22	1.22	1.22	1.21	*1.19*	1.18	1.17	1.14	1.11	1.12	*1.12*	1.13	1.15	1.16	1.16	1.19	1.28	1.11
3	1.16	1.16	1.16	1.16	1.16	1.16	1.17	*1.18*	1.18	1.19	1.19	1.19	1.18	*1.17*	1.16	1.15	1.13	1.10	1.10	*1.11*	1.12	1.13	1.14	1.15	1.15	1.19	1.10
4	1.15	1.15	1.15	1.15	1.15	1.15	1.16	*1.17*	1.18	*1.19*	1.19	1.19	1.18	*1.16*	1.15	1.14	1.12	1.09	1.10	*1.12*	1.12	1.14	1.16	1.16	1.15	1.19	1.09
5	1.16	1.15	1.15	1.15	1.15	1.15	1.15	*1.16*	1.16	1.16	1.16	1.16	1.15	*1.14*	*1.12*	1.11	1.10	1.08	1.05	1.05	*1.06*	1.07	1.08	1.09	1.09	1.12	1.05
6	1.09	1.09	1.09	1.08	1.07	1.07	1.07	*1.07*	1.08	1.08	1.08	1.08	1.08	1.07	*1.05*	1.04	1.02	1.01	1.00	1.00	*1.00*	1.00	1.01	1.02	1.02	1.05	1.00
7	1.03	1.03	1.03	1.03	1.03	1.03	1.04	*1.05*	1.06	1.06	1.06	1.06	1.05	1.03	.99	.98	.96	.93	.89	.88	*.88*	.88	.89	.91	.92	.98	1.06	.88
8	.93	.95	.96	.96	.98	1.00	1.01	*1.03*	1.04	1.05	1.05	1.05	1.05	1.04	*1.03*	1.03	1.01	.99	.96	.97	*.99*	1.01	1.04	1.06	1.03	1.01	1.08	.93
9	1.08	1.09	1.09	1.09	1.09	1.09	1.09	*1.09*	1.10	1.10	1.09	1.08	1.07	*1.04*	1.03	1.01	.98	.98	.98	.98	.99	1.01	1.02	1.03	1.05	1.10	.98
10	1.03	1.04	1.05	1.05	1.05	1.05	1.06	*1.07*	1.09	1.10	1.10	1.10	1.09	*1.07*	1.06	1.04	1.02	1.01	1.00	*1.01*	1.02	1.03	1.04	1.04	1.05	1.10	1.00
11	1.04	1.04	1.04	1.04	1.03	1.03	1.03	*1.03*	1.04	*1.04*	1.05	1.05	1.03	*1.00*	.99	.96	.91	.90	.90	*.89*	.89	.91	.91	.91	.99	1.05	.89
12	.90	.90	.89	.88	.88	.87	.88	*.88*	.88	.88	.87	.87	.86	*.84*	.81	.79	.77	.77	.77	*.78*	.79	.81	.83	.85	.84	.90	.77
13	.87	.88	.88	.89	.89	.90	.91	*.94*	.95	.96	.96	.96	.94	*.93*	.92	.91	.90	.89	.90	*.91*	.91	.94	.96	.98	.92	.98	.87
14	.99	1.00	1.02	1.03	1.04	1.06	1.09	*1.12*	1.13	1.14	1.14	1.13	1.11	*1.09*	1.07	1.08	1.04	1.02	1.03	*1.05*	1.06	1.09	1.11	1.12	1.07	1.14	.99
15	1.13	1.14	1.16	1.19	1.21	1.25	1.28	*1.33*	1.36	1.37	1.38	1.38	1.38	*1.37*	1.36	1.34	1.31	1.31	1.31	*1.32*	1.33	1.34	1.35	1.35	1.30	1.38	1.13
16	1.35	1.34	1.33	1.31	1.28	1.26	1.25	*1.23*	1.22	1.22	1.21	1.17	1.15	*1.11*	1.06	1.00	.98	.96	.95	*.93*	.93	.93	.92	.91	1.12	1.35	.91
17	.91	.91	.91	.91	.90	.90	.91	*.92*	.92	.92	.93	.92	.90	*.87*	.86	.84	.79	.78	.80	*.80*	.80	.81	.82	.84	.87	.93	.78
18	.85	.86	.86	.86	.88	.89	*.93*	.93	*.93*	.93	.93	.93	.92	*.91*	.90	.89	.87	.88	.89	*.90*	.92	.94	.96	.98	.90	.98	.85
19	1.01	1.03	1.04	1.05	1.06	1.06	1.08	*1.10*	1.11	1.12	1.13	1.12	1.12	*1.09*	1.05	1.02	1.01	1.01	1.01	*1.03*	1.04	1.05	1.06	1.06	1.06	1.13	1.01
20	1.05	1.04	1.04	1.03	1.02	1.02	1.01	*1.00*	.99	.98	.97	.95	.94	*.91*	.90	.88	.84	.83	.83	*.85*	.86	.87	.88	.88	.94	1.05	.83
21	.87	.87	.88	.88	.87	.88	.89	*.91*	.92	.92	.92	.90	.89	*.88*	.87	.87	.87	.87	.87	*.88*	.92	.98	1.02	1.04	.90	1.04	.87
22	1.05	1.05	1.05	1.05	1.05	1.05	1.05	*1.05*	1.07	1.07	1.07	1.06	1.06	*1.02*	1.00	.97	.95	.97	.98	*1.00*	1.04	1.06	1.08	1.10	1.04	1.10	.95
23	1.12	1.13	1.14	1.14	1.14	1.14	1.15	*1.16*	1.16	1.16	1.17	1.18	1.15	*1.12*	1.09	1.07	1.05	1.04	1.04	*1.04*	1.04	1.05	1.06	1.05	1.11	1.18	1.04
24	1.05	1.05	1.04	1.03	1.03	1.03	1.04	*1.06*	1.06	1.06	1.07	1.08	1.09	*1.10*	1.09	1.09	1.09	1.10	1.11	*1.13*	1.16	1.19	1.21	1.23	1.09	1.23	1.03
25	1.24	1.25	1.26	1.27	1.27	1.28	1.29	*1.30*	1.30	*1.30*	1.29	1.26	1.23	*1.21*	1.18	1.16	1.13	1.13	1.13	*1.13*	1.12	1.12	1.12	1.12	1.21	1.30	1.12
26	1.12	1.11	1.10	1.09	1.09	1.09	1.09	*1.11*	1.11	1.11	1.12	1.12	1.12	*1.12*	1.11	1.11	1.11	1.11	1.14	*1.15*	1.18	1.20	1.22	1.24	1.13	1.24	1.09
27	1.23	1.22	1.21	1.20	1.20	1.20	1.22	*1.22*	1.22	1.22	1.22	1.22	1.20	*1.17*	1.15	1.13	1.12	1.13	1.15	*1.13*	1.12	1.12	1.12	1.11	1.18	1.23	1.11
28	1.10	1.10	1.07	1.06	1.05	1.04	1.03	*1.02*	1.01	1.00	.99	.98	.97	.92	.91	.89	.87	.86	.84	*.84*	.84	.84	.84	.84	.96	1.10	.84
29	.82	.82	.82	.81	.79	.79	.79	.79	.79	.78		.77	.75	.72	.70	.68	.60	.60	.60	*.61*	.62	.62	.62	.61	.72	.82	.60
30	.61	.61	.61	.61	.61	.60	.60	*.63*	.66	.63	.63	.59	.56	*.52*	.56	.58	.63	.65	.68	*.71*	.72	.76	.77	.77	.64	.77	.52
Mean..	1.05	1.05	1.05	1.05	1.05	1.05	1.06	*1.07*	1.08	1.08	1.08	1.07	1.06	1.04	1.02	1.01	.98	.98	.98	*.99*	1.00	1.01	1.02	1.03	1.04	1.12	.95

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

September, 1893.]

Day.	0–1h a. m.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Noon.	Noon–1h p. m.
1	NW. 5	NW 5	N. 5	N. 3	N. 4	N. 6	N. 7	N. 7	N. 8	*NW.* 7	*N.* 3	*E.* 4	W. 5
2	N. 2	N. 5	N. 6	N. 6	N. 5	N. 7	N. 6	N. 6	N. 6	N. 2	SW. 3	SW. 3	S. 5
3	N. 8	N. 10	N. 8	N. 8	N. 8	N. 8	N. 8	N. 8	N. 10	N. 5	N. 9	N. 6	E. 9
4	N. 8	N. 9	N. 9	N. 9	N. 9	N. 8	N. 10	N. 11	N. 12	N. 8	N. 6	E. 5	E. 8
5	N. 10	N. 12	N. 9	N. 7	N. 10	N. 10	N. 9	N. 8	N. 8	N. 8	N. 2	SE. 3	S. 5
6	N. 9	N. 9	N. 10	N. 10	N. 8	N. 9	N. 9	N. 10	N. 8	N. 4	N. 2	*SW.* 3	*E.* 4
7	N. 9	N. 8	N. 9	N. 11	N. 10	N. 8	N. 7	N. 7	N. 7	N. 4	*S.* 3	SE. 8	S. 13
8	W. 9	W. 13	W. 8	N. 4	NW 10	NW 8	N. 5	N. 4	SE. 3	NE. 2	S. 6	*E.* 6	E. 9
9	N. 8	N. 8	N. 8	N. 10	N. 9	N. 10	N. 10	N. 10	N. 8	N. 7	N. 4	N. 2	E. 7
10	N. 8	N. 9	N. 9	N. 10	N. 10	N. 9	N. 9	N. 11	N. 8	N. 9	N. 11	NE. 10	N. 5
11	N. 9	N. 7	N. 9	N. 8	N. 9	N. 5	N. 4	N. 5	N. 4	N. 2	*SW.* 3	S. 6	S. 7
12	N. 8	N. 10	N. 11	N. 8	N. 7	N. 8	N. 5	N. 6	N. 6	N. 7	S. 11	S. 16	S. 16
13	W. 15	N. 5	E. 4	E. 5	N. 4	N. 5	N. 6	N. 5	N. 5	E. 3	SE. 5	SE. 10	E. 6
14	N. 6	N. 7	W. 8	N. 4	N. 8	N. 9	N. 19	N. 16	NE. 9	N. 13	N. 9	*NE.* 6	S. 5
15	N. 11	N. 11	N. 9	N. 12	N. 7	N. 9	N. 19	N. 22	N. 22	N. 19	N. 19	N. 18	*NE.* 12
16	S. 13	S. 13	S. 11	SE. 13	SE. 14	SE. 15	SE. 3	SE. 3	SE. 2	S. 4	S. 3	S. 5	S. 7
17	*W.* 10	NE. 6	E. 6	NE. 6	N. 5	N. 5	N. 7	N. 5	E. 6	SE. 4	NE. 4	S. 14	
18	N. 6	N. 6	N. 6	W. 5	SW 6	NE. 6	N. 5	N. 5	*W.* 5	*N.* 4	E. 6	E. 6	*4
19	N. 12	NE. 6	N. 12	N. 18	N. 16	N. 19	N. 16	N. 8	N. 9	N. 6	*NE.* 9	S. 10	SE. 13
20	*SW.* 5	N. 6	N. 8	N. 8	N. 8	N. 6	NE. 7	N. 5	N. 7	N. 5	*N.* 3	N. 5	NW 7
21	*S.* 5	S. 7	S. 11	S. 10	S. 9	SW. 8	N. 4	N. 5	N. 5	N. 3	*E.* 11	S. 11	SW. 14
22	SW. 3	*SW.* 2	N. 2	N. 5	N. 5	N. 8	N. 7	N. 8	N. 6	N. 5	*NE.* 3	S. 7	S. 8
23	N. 10	N. 10	N. 10	N. 16	N. 18	N. 18	N. 15	N. 15	N. 13	N. 12	N. 8	S. 11	SE. 16
24	NE. 4	N. 5	N. 8	N. 9	N. 10	N. 9	N. 7	N. 6	N. 6	N. 8	NE. 10	N. 17	N. 22
25	N. 5	N. 5	N. 6	N. 6	*N.* 5	SW. 6	*E.* 2	*S.* 5	S. 8	S. 11	S. 11	S. 11	S. 11
26	N. 7	N. 8	N. 8	N. 10	N. 7	*SW.* 3	N. 5	N. 2	N. 4	N. 1	*N.* 3	*SE.* 8	*E.* 10
27	N. 3	*N.* 4	N. 7	N. 7	N. 5	N. 4	N. 3	N. 1	N. 2	NE. 1	E. 3	SE. 3	S. 8
28	SE. 12	S. 7	S. 6	S. 8	S. 14	E. 12	E. 6	E. 3	E. 7	SE. 12	S. 11	SE. 15	S. 12
29	S. 1	*NE.* 1	*E.* 2	N. 3	N. 5	N. 5	N. 7	*NW* 5	N. 2	*N.* 3	*SE.* 2	S. 3	S. 9
30	*E.* 6	*N.* 6	*SE.* 5	N. 4	N. 5	N. 4	N. 6	N. 6	N. 6	N. 3	W. 4	S. 14	S. 18
Mean..	N. 7.5	N. 7.3	N. 7.7	N. 8.1	N. 8.3	N. 8.2	N. 7.7	N. 7.3	N. 7.0	N. 6.1	N. 6.2	S. 7.9	S. 9.4

*Interpolated.

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [September, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	52	52	52	52	52	51	50	*49*	50	52	57	60	59	*62*	61	64	64	65	65	*66*	60	57	54	53	56.5	66	49
2	53	49	48	48	46	47	46	*48*	53	61	64	69	72	*74*	76	75	74	74	74	*72*	64	60	58	54	60.8	77	45
3	54	53	52	55	52	54	49	*54*	63	70	72	74	75	*75*	76	77	78	77	76	*73*	69	62	60	57	64.9	80	48
4	54	55	52	52	53	50	54	*52*	58	67	75	76	76	*76*	78	78	78	78	76	*71*	65	58	56	53	64.2	78	49
5	51	50	52	50	49	49	53	*51*	55	64	72	74	74	*75*	76	76	77	76	75	*70*	64	59	55	53	62.5	77	45
6	50	53	51	52	53	55	55	*55*	61	71	77	80	80	*80*	80	80	81	79	78	*74*	71	67	62	58	66.8	82	48
7	58	55	54	54	56	57	56	*56*	66	70	75	78	81	*81*	81	81	82	82	80	*77*	73	75	76	75	70.0	83	51
8	69	72	67	64	64	64	59	*54*	58	64	68	71	73	*74*	77	77	76	76	74	*70*	69	66	62	54	67.6	78	54
9	53	51	47	49	48	46	47	*47*	55	66	73	76	76	*76*	77	77	78	78	78	*77*	65	60	58	52	62.7	78	45
10	54	50	47	46	46	46	49	*53*	58	69	73	74	76	*76*	77	78	79	79	77	*72*	68	60	57	53	63.2	80	44
11	56	52	50	49	47	46	48	*52*	57	*68*	71	74	77	*77*	78	79	80	80	79	*75*	73	72	66	59	65.2	81	43
12	52	53	51	51	53	51	53	*55*	57	60	76	76	78	*78*	82	82	84	82	81	*74*	71	65	74	74	67.2	84	47
13	73	60	68	62	59	57	55	*54*	59	65	70	71	74	*76*	78	78	78	79	77	*74*	67	64	68	61	68.2	79	52
14	58	62	61	61	58	54	54	*54*	56	62	65	68	73	*75*	76	77	77	76	76	*73*	69	*70*	64	55	65.6	77	52
15	58	60	54	63	61	58	57	*55*	57	59	60	61	65	*66*	67	67	68	69	67	*64*	61	60	57	58	61.3	69	52
16	57	56	53	51	49	49	46	*45*	47	49	54	56	60	*67*	72	75	75	75	74	*70*	70	70	70	70	60.8	75	44
17	66	64	62	61	59	59	57	*55*	61	63	65	67	70	*71*	72	74	75	75	73	*69*	68	67	63	55	65.5	76	54
18	53	55	57	60	58	52	53	*53*	56	*64*	67	70	72	*72*	74	75	76	76	74	*69*	64	60	58	56	63.5	78	49
19	59	55	54	51	50	50	49	*50*	54	55	58	59	62	*64*	69	69	68	69	67	*66*	64	60	60	58	59.2	71	48
20	54	51	50	48	48	48	47	*48*	54	62	68	72	75	*76*	76	77	78	77	74	*70*	72	66	66	59	63.2	79	46
21	60	66	66	62	62	54	53	*52*	52	63	67	70	72	*73*	75	76	77	78	77	*72*	68	*62*	61	58	65.7	78	47
22	56	48	50	48	40	40	42	*40*	46	55	59	61	65	*67*	72	76	77	75	73	*69*	68	62	57	53	58.3	77	37
23	51	49	51	51	48	46	44	*45*	45	50	55	56	57	*58*	58	56	56	54	53	*51*	50	48	48	45	51.0	59	44
24	41	40	39	42	56	52	53	*55*	57	64	67	66	64	*66*	66	67	68	67	64	*58*	58	53	49	45	56.5	69	37
25	41	39	38	36	40	39	39	*37*	39	*42*	43	45	40	*50*	52	52	55	57	58	*57*	56	54	49	47	46.4	58	35
26	44	44	43	44	44	44	43	*46*	49	59	64	65	65	*64*	66	65	65	64	63	*59*	56	55	53	51	54.8	67	40
27	49	43	43	40	40	40	44	*45*	47	48	50	54	55	*59*	58	59	58	57	56	*55*	53	53	52	53	50.5	60	38
28	53	53	53	52	51	51	51	*51*	51	51	51	51	51	*52*	53	54	54	54	53	*53*	53	53	*53*	52	52.2	54	50
29	53	52	52	51	48	48	50	*52*	51	59	68	68	69	*70*	71	72	74	74	68	*65*	66	68	66	64	61.6	77	46
30	61	57	51	52	47	47	45	*45*	48	53	57	62	64	*68*	54	53	49	47	45	*44*	42	40	39	39	50.4	70	42
Mean.	54.8	53.6	52.3	51.9	51.2	50.1	50.0	50.3	54.0	60.2	64.7	66.8	68.6	69.9	70.9	71.5	72.0	71.6	70.2	66.7	63.9	60.9	59.0	55.8	60.9	73.9	46.0

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[September, 1893.

Day.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Mid.	Max.	Direction
1	W. 5	S. 5	S. 6	S. 7	S. 8	S. 7	S. 8	S. 4	S. 1	S. 3	S. 1	10	S.
2	E. 4	E. 5	E. 5	E. 6	E. 7	E. 6	E. 4	*S.* 2	NE. 2	N. 4	N. 7	12	E.
3	E. 6	E. 5	E. 5	E. 6	*E.* 5	SE. 5	SE. 4	S. 4	*S.* 3	N. 7	N. 9	13	N.
4	E. 10	E. 11	E. 10	S. 9	S. 6	SE. 6	S. 5	S. 3	N. 3	N. 7	N. 8	15	N.
5	S. 8	S. 9	S. 8	S. 8	S. 9	S. 10	S. 9	S. 6	*N.* 4	N. 5	N. 7	13	N.
6	E. 6	S. 7	S. 6	S. 6	S. 5	S. 3	S. 1	NW. 3	NW. 5	N. 7	N. 8	14	N.
7	S. 19	S. 19	S. 17	S. 17	S. 17	S. 15	S. 11	S. 10	SW. 7	S. 8	S. 11	25	S.
8	E. 4	E. 6	F. 8	S. 15	S. 20	S. 17	S. 13	S. 8	S. 9	*SE.* 4	*N.* 5	21	S.
9	E. 8	S. 11	S. 12	S. 13	S. 13	S. 12	S. 9	S. 3	*NE.* 4	*N.* 7	N. 8	17	SE.
10	E. 5	S. 8	S. 11	S. 13	S. 14	S. 15	S. 11	S. 4	*NE* 3	NE. 5	N. 6	19	S.
11	S. 9	S. 9	SE. 11	S. 10	S. 11	S. 16	S. 14	S. 10	S. 3	S. 5	N. 7	19	S.
12	S. 13	SE. 15	S. 11	S. 14	SW. 19	S. 12	S. 6	SW. 3	N. 4	W. 13	W. 20	25	W.
13	E. 6	*E.* 14	S. 17	SE. 21	SE. 12	S. 11	S. 10	S. 4	NE. 6	N. 14	N. 7	27	SW.
14	S. 16	S. 21	S. 21	S. 22	S. 23	S. 21	S. 19	SW. 15	*SE.* 7	S. 8	N. 9	26	S.
15	E. 7	S. 11	S. 16	S. 17	S. 18	S. 15	S. 12	S. 9	E. 6	E. 6	E. 9	31	N.
16	S. 10	S. 9	S. 16	S. 22	S. 21	S. 18	S. 17	SW. 19	SW. 16	W. 17	W. 15	28	S.
17	S. 15	S. 19	S. 20	S. 21	S. 21	S. 19	W. 14	SW 10	SW. 9	SW. 8	N. 6	26	S.
18	*E. *7	*E. *8	*E. *7	*E. *9	*SE. *10	W. 10	SW. 13	S. 6	*SW.* 2	NE. 5	N. 8	18	SW.
19	SE. 11	SE. 15	S. 23	S. 23	S. 24	S. 21	S. 19	S. 15	*E.* 10	E. 9	*S.* 6	29	S.
20	NW. 17	*W.* 12	W. 18	S. 16	S. 17	SW. 21	S. 11	W. 13	W. 8	SW. 4	W. 3	29	NW.
21	W. 12	SW. 13	W. 15	W. 14	W. 13	W. 9	NW. 12	NW. 8	E. 9	*NW.* 6	*S.* 4	22	SW.
22	S. 8	S. 10	SE. 13	SE. 11	NW. 19	N. 19	N. 15	N. 12	NE. 7	*NE.* 5	N. 6	22	NW.
23	SE. 16	S. 20	S. 17	SE. 14	SE. 13	SE. 15	SE. 11	E. 10	E. 5	E. 2	E. 2	23	S.
24	N. 22	N. 17	N. 15	N. 10	*N.* 8	E. 10	E. 6	*S.* 3	*SE.* 3	E. 2	N. 5	25	NE.
25	S. 12	S. 13	S. 14	S. 11	*S.* 8	*SE.* 9	*NW.* 6	*S.* 5	*N.* 5	N. 6	N. 7	15	S.
26	N. 14	N. 14	N. 14	N. 12	N. 11	NE. 9	NE. 7	NE. 8	NE. 9	NE. 7	*NE.* 5	18	N.
27	SE. 11	S. 12	S. 12	S. 13	SE. 14	E. 8	*S.* 6	S. 7	S. 10	S. 10	S. 10	17	SE.
28	S. 17	S. 14	S. 11	S. 8	S. 7	S. 8	S. 5	*SE.* 6	*S.* 5	S. 4	*SE.* 3	19	SE.
29	SE. 13	S. 15	SE. 17	SE. 10	*SW.* 7	*W.* 8	S. 10	SW. 11	S. 12	S. 9	*S.* 4	22	SE.
30	S. 21	*SW.* 32	N. 33	N. 27	N. 28	N. 27	N. 18	N. 22	N. 20	N. 15	N. 14	46	N.
Mean.	S. 11.1	S. 12.6	S. 13.7	S. 13.5	S. 13.6	S. 12.7	S. 10.2	S. 8.1	S. 6.6	N. 7.1	N. 7.3	.....	.....

* Interpolated.

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

NOTE.—All eye readings are printed in *italics*.

October, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.78	.78	.80	.80	.81	.81	.83	*.85*	.87	.87	.89	.90	.93	*.94*	.95	.95	.95	.96	.97	.98	1.00	1.02	1.03	1.05	.90	1.05	.78
2	1.05	1.05	1.04	1.05	1.05	1.05	1.06	*1.06*	1.07	*1.08*	1.07	1.06	1.04	*1.02*	1.00	1.00	.95	.96	.97	*.99*	1.00	1.01	1.01	1.01	1.03	1.08	.95
3	1.01	1.00	1.00	.99	.98	.98	.98	*.98*	.97	.97	.96	.95	.94	*.94*	.92	.92	.88	.87	.88	*.88*	.88	.88	.88	.88	.94	1.01	.87
4	.88	.88	.86	.85	.85	.85	.84	*.83*	.82	.82	.82	.77	.76	*.71*	.69	.66	.67	.67	.68	*.72*	.73	.73	.74	.74	.77	.88	.66
5	.75	.75	.82	.82	.82	.82	.82	*.88*	.92	.92	.93	.95	.96	*.95*	.95	.94	.95	.94	.94	.97	.99	1.00	1.01	1.01	.91	1.01	.75
6	1.02	1.02	1.02	1.02	1.02	1.03	1.04	*1.06*	1.05	1.04	1.04	1.04	1.03	*1.01*	.97	.96	.93	.92	.93	.95	.96	.97	.98	.98	1.00	1.06	.92
7	1.00	1.00	1.02	1.02	1.02	1.03	1.04	*1.05*	1.06	1.06	1.04	1.04	1.02	*.99*	.97	.95	.96	.97	.98	*.98*	1.00	1.01	1.00	1.00	1.01	1.06	.95
8	1.00	1.00	1.01	1.01	1.01	1.01	1.01	*1.02*	1.03	1.04	1.04	1.04	1.02	*1.01*	.99	.97	.98	.98	.97	*.99*	1.00	1.01	1.01	1.01	1.01	1.04	.97
9	1.01	1.00	1.00	1.00	.98	.97	.97	*.96*	.95	*.95*	.97	.95	.93	*.87*	.85	.84	.82	.81	.81	*.83*	.84	.84	.84	.85	.91	1.01	.81
10	.84	.85	.86	.87	.87	.87	.90	*.91*	.92	.92	.92	.91	.90	*.87*	.84	.84	.83	.82	.81	*.80*	.80	.80	.81	.82	.86	.92	.80
11	.82	.83	.87	.93	.99	1.05	1.06	*1.11*	1.17	1.20	1.20	1.21	1.23	*1.22*	1.23	1.22	1.22	1.21	1.23	*1.26*	1.28	1.28	1.28	1.27	1.14	1.28	.82
12	1.26	1.25	1.25	1.23	1.21	1.20	1.18	*1.17*	1.16	1.15	1.15	1.13	1.13	*1.10*	1.06	1.05	1.02	1.02	1.04	*1.05*	1.05	1.05	1.06	1.07	1.13	1.26	1.02
13	1.08	1.10	1.13	1.19	1.24	1.25	1.27	*1.29*	1.30	1.32	1.32	1.31	1.32	*1.29*	1.28	1.27	1.26	1.26	1.29	*1.27*	1.27	1.27	1.28	1.29	1.26	1.32	1.08
14	1.29	1.29	1.27	1.27	1.27	1.27	1.27	*1.29*	1.29	1.29	1.28	1.28	1.27	*1.24*	1.20	1.19	1.17	1.16	1.16	*1.17*	1.17	1.17	1.17	1.17	1.23	1.29	1.16
15	1.16	1.15	1.15	1.15	1.13	1.13	1.13	*1.12*	1.12	1.12	1.12	1.11	1.10	*1.08*	1.05	1.03	1.02	1.03	1.05	*1.05*	1.05	1.05	1.04	1.03	1.09	1.16	1.02
16	1.03	1.02	1.02	1.02	1.01	1.01	1.01	*1.01*	1.02	*1.02*	1.00	1.00	.99	*.98*	.97	.96	.96	.96	.96	*.95*	.96	.96	.97	.98	.99	1.03	.95
17	1.00	1.02	1.03	1.04	1.06	1.08	1.08	*1.08*	1.12	1.14	1.15	1.15	1.14	*1.11*	1.10	1.09	1.07	1.09	1.13	*1.15*	1.15	1.16	1.17	1.17	1.10	1.17	1.00
18	1.17	1.18	1.19	1.20	1.21	1.21	1.22	*1.23*	1.23	1.25	1.25	1.25	1.25	*1.22*	1.22	1.21	1.22	1.23	1.24	*1.25*	1.27	1.28	1.29	1.30	1.23	1.30	1.17
19	1.30	1.32	1.33	1.33	1.33	1.33	1.33	*1.35*	1.34	1.34	1.33	1.33	1.31	*1.30*	1.28	1.28	1.26	1.27	1.28	*1.29*	1.29	1.30	1.30	1.30	1.31	1.34	1.26
20	1.30	1.30	1.30	1.30	1.29	1.29	1.28	*1.29*	1.30	1.30	1.29	1.28	1.28	*1.26*	1.25	1.24	1.23	1.22	1.23	*1.25*	1.25	1.25	1.26	1.26	1.27	1.30	1.22
21	1.26	1.26	1.26	1.24	1.23	1.22	1.22	*1.21*	1.19	1.18	1.15	1.12	1.10	*1.04*	1.02	.99	.97	.95	.95	*.96*	.96	.95	.95	.95	1.10	1.26	.95
22	.94	.94	.94	.93	.92	.92	.92	*.92*	.92	.92	.92	.90	.88	*.85*	.83	.83	.83	.81	.79	*.78*	.77	.77	.77	.75	.86	.94	.75
23	.74	.77	.75	.75	.73	.75	.78	*.81*	.82	.84	.86	.88	.89	*.89*	.88	.88	.89	.91	.94	*.95*	.98	.99	1.01	1.03	.86	1.03	.73
24	1.04	1.05	1.06	1.08	1.08	1.08	1.09	*1.10*	1.10	1.09	1.09	1.07	1.06	*1.00*	.96	.93	.89	.88	.89	*.93*	.93	.93	.93	1.01	1.10	.88
25	.93	.92	.91	.90	.88	.87	.86	*.85*	.85	.85	.85	.84	.83	*.81*	.82	.84	.85	.86	.94	*1.01*	1.03	1.04	1.06	1.08	.90	1.08	.81
26	1.08	1.08	1.09	1.10	1.10	1.10	1.10	*1.09*	1.08	1.08	1.08	1.08	1.07	*1.03*	1.01	.98	.98	.99	.99	*1.00*	1.03	1.04	1.05	1.06	1.05	1.10	.98
27	1.07	1.07	1.08	1.08	1.08	1.08	1.08	*1.08*	1.09	1.10	1.10	1.10	1.10	*1.09*	1.09	1.09	1.10	1.10	1.14	*1.17*	1.20	1.22	1.25	1.28	1.12	1.28	1.07
28	1.28	1.29	1.29	1.28	1.28	1.28	1.26	*1.26*	1.25	1.25	1.24	1.22	1.20	*1.17*	1.16	1.15	1.14	1.14	1.15	*1.16*	1.18	1.20	1.20	1.21	1.22	1.29	1.14
29	1.22	1.22	1.23	1.23	1.24	1.24	1.25	*1.25*	1.26	1.27	1.26	1.25	1.23	*1.20*	1.19	1.18	1.16	1.16	1.17	*1.19*	1.19	1.19	1.19	1.18	1.22	1.27	1.16
30	1.18	1.17	1.16	1.16	1.14	1.13	1.12	*1.12*	1.10	1.10	1.07	1.05	1.04	*1.00*	.96	.93	.88	.87	.88	*.88*	.90	.89	.89	.88	1.02	1.18	.87
31	.88	.88	.88	.89	.90	.90	.90	*.90*	*.89*	*.89*	.89	.88	.87	*.85*	.82	.80	.80	.78	.79	*.79*	.81	.81	.83	.84	.85	.90	.78
Mean	1.04	1.05	1.05	1.06	1.06	1.06	1.06	*1.07*	1.07	1.08	1.07	1.07	1.06	1.03	1.02	1.00	1.00	.99	1.01	*1.02*	1.03	1.04	1.04	1.04	1.04	1.13	.94

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

October, 1893.]

Day.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p. m.	
1	NE.	14	N.	9	N.	12	N.	9	N.	4	*E.*	4	SE.	1	SE.	1	N.	2	*NE.*	2	*N.*	11	N.	23	N.	26
2	N.	1	N.	4	N.	5	N.	8	N.	7	N.	8	N.	8	N.	8	N.	3	E.	4	*SE.*	6	S.	12	S.	15
3	N.	4	W.	11	*SW. S.*	7	SE.	4	S.	7	W.	5	NE.	5	NW.	5	SW.	4	S.	2	S.	5	S.	11	S.	10
4	*NE.*	3	*SW.*	4	E.	6	NW.	4	N.	3	N.	4	N.	6	N.	7	N.	9	*NW.*	3	*NE.*	3	SE.	8	SE.	10
5	NE.	14	NE.	11	*N.*	17	NW.	13	NE.	8	*NE.*	16	NW.	16	NW	25	N.	15	N.	16	N.	11	N.	11	NW.	19
6	*SW.*	5	S.	6	SE.	6	S.	5	*SE.*	3	NW.	4	N.	4	N.	3	N.	5	*E.*	3	*S.*	3	*SE.*	6	S.	7
7	N.	6	W.	5	*S.*	3	*SW.*	3	N.	5	N.	4	N.	6	N.	5	N.	5	N.	3	N.	3	N.	2	NE.	3
8	NW.	11	N.	8	*NW.*	6	W.	9	W.	6	NW.	16	SW.	4	W.	5	*W.*	4	*SE.*	3	S.	3	*N.*	9	*NW.*	14
9	N.	7	N.	8	N.	10	N.	10	N.	9	N.	10	N.	7	N.	7	N.	8	N.	6	*E.*	3	*SE.*	4	SE.	4
10	*NW.*	3	N.	5	*SW.*	4	*W.*	3	N.	4	NW.	5	*NE.*	4	N.	6	N.	6	N.	6	*N.*	5	S.	7	S.	
11	N.	8	N.	8	N.	24	N.	35	N.	35	N.	30	N.	29	N.	24	N.	23	N.	21	N.	11	NE.	18	N.	21
12	N.	4	N.	4	N.	6	N.	5	N.	6	N.	8	N.	10	N.	7	N.	6	N.	5	N.	2	N.	2	S.	4
13	N.	6	N.	10	N.	9	N.	32	N.	28	N.	24	N.	21	N.	26	N.	20	N.	20	N.	16	N.	7	*NW.*	5
14	S.	2	S.	3	*NE.*	3	N.	6	N.	5	N.	5	N.	7	N.	7	N.	8	N.	7	N.	5	SE.	3	S.	4
15	N.	8	N.	9	N.	10	N.	8	N.	8	N.	8	N.	9	N.	9	N.	5	N.	2	N.	1	SW.	2	S.	5
16	N.	10	N.	10	N.	9	N.	9	N.	6	N.	6	N.	7	SW.	4	N.	6	N.	5	*N.*	3	*E.*	2	W.	1
17	N.	8	N.	8	N.	8	N.	9	N.	8	N.	9	N.	11	N.	8	*E.*	6	E.	7	*SE.*	7	*S.*	16	S.	20
18	*N*	4	N.	4	N.	6	N.	7	N.	10	N.	10	N.	13	N.	7	N.	8	N.	13	N.	18	N.	13	N.	10
19	N.	6	N.	9	N.	7	N.	7	N.	6	N.	7	N.	7	N.	8	N.	7	N.	3	N.	2	*E.*	1	SE.	4
20	N.	6	N.	9	N.	8	N.	10	N.	9	N.	7	N.	6	N.	7	N.	7	N.	5	*NE.*	2	*S.*	3	S.	8
21	N.	8	N.	9	N.	8	N.	10	N.	9	N.	10	N.	9	N.	6	N.	9	N.	7	*N.*	3	*NW.*	2	S.	4
22	N.	8	N.	7	N.	4	E.	5	E.	4	E.	5	SW.	5	*NE.*	5	SW.	6	NE.	4	*W.*	4	SW.	16	S.	12
23	*SW.*	21	E.	15	NW.	11	*E.*	10	*W.*	22	E.	11	NW.	32	NW.	27	NW.	41	NW.	40	NW.	52	NW.	26	NW.	28
24	*NW.*	15	NW.	12	NW.	17	SW.	9	S.	7	*N.*	3	N.	5	N.	3	N.	4	N.	3	S.	3	NE.	4	*E.*	5
25	N.	7	NE.	10	N.	9	W.	9	W.	7	W.	7	NW.	7	*NW.*	13	N.	8	NW.	22	NW.	13	NE.	10	NE.	6
26	N.	16	N.	8	N.	9	N.	4	N.	4	N.	6	N.	5	N.	5	N.	6	N.	5	NE.	2	NE.	2	SE.	4
27	N.	11	N.	10	N.	10	N.	9	N.	10	N.	10	N.	11	N.	9	N.	10	N.	9	N.	5	N.	3	S.	6
28	N.	7	N.	6	N.	5	*SE.*	10	S.	8	*S.*	6	S.	3	S.	2	S.	1	NW.	2	NW.	2	N.	2	E.	3
29	N.	9	N.	10	N.	11	N.	9	N.	9	N.	8	N.	8	N.	10	N.	9	N.	8	N.	6	N.	3	S.	7
30	N.	8	N.	10	N.	10	N.	9	N.	9	N.	8	N.	8	N.	7	N.	5	N.	4	5 W.	2	S.	2	S.	3
31	N.	6	N.	4	*NW.*	4	N.	3	N.	4	N.	12	N.	9	SW.	5	NW.	3	N.	3	NE.	5	E.	3	SW.	2
Mean	N.	7.9	N.	7.9	N.	8.5	N.	9.1	N.	8.7	N.	8.9	N.	9.1	N.	8.7	N.	8.4	N.	7.8	N.	7.0	S.	7.5	S.	9.0

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [October, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	40	40	41	41	40	40	40	*40*	41	42	38	37	34	*33*	34	37	36	38	38	*36*	35	34	32	32	37.5	43	32
2	33	31	30	27	28	27	25	*27*	29	36	42	43	46	*48*	50	52	52	53	53	47	44	44	42	40	39.5	53	25
3	39	43	44	45	48	40	38	*40*	43	47	53	56	61	*60*	63	63	63	64	62	*59*	55	53	53	54	51.9	65	36
4	51	48	45	42	39	38	34	*34*	39	48	53	59	62	*64*	68	66	67	68	65	*56*	51	54	50	46	52.0	68	33
5	44	42	40	38	39	40	39	*38*	39	43	45	48	50	*51*	52	52	53	54	52	*52*	51	51	49	47	46.2	54	38
6	46	43	40	38	40	36	36	*35*	41	47	52	55	58	*61*	63	66	69	69	67	*64*	63	62	60	56	52.9	70	32
7	53	51	48	46	47	42	44	*42*	47	50	53	59	65	*67*	69	70	71	70	68	*66*	66	61	54	60	57.0	72	39
8	61	59	63	59	63	57	57	*56*	60	64	69	72	74	*74*	75	76	75	74	73	*68*	64	60	55	48	64.8	76	54
9	50	45	47	45	43	45	43	*47*	46	*61*	68	72	73	*75*	75	75	75	75	72	*64*	61	60	59	56	59.7	76	41
10	51	53	49	51	52	51	49	*47*	51	58	63	66	68	*68*	70	68	69	69	67	*60*	58	58	54	49	58.3	71	44
11	53	48	45	40	36	35	32	*36*	30	30	36	42	44	*45*	44	45	44	43	41	*39*	38	34	32	28	39.0	46	33
12	26	24	25	23	23	23	23	*25*	26	37	47	59	60	*62*	63	63	63	62	60	*64*	48	41	38	41	42.3	64	22
13	38	41	47	41	38	37	35	*35*	35	38	40	45	48	*48*	50	50	50	50	48	*46*	42	38	38	39	42.3	51	34
14	34	31	27	28	26	27	26	*25*	29	36	43	47	48	*53*	53	55	55	56	54	*50*	44	41	37	36	40.0	56	24
15	35	33	33	33	33	34	35	*35*	38	47	57	65	68	*70*	72	72	70	70	65	*61*	52	47	47	45	50.7	72	32
16	43	43	44	46	42	46	44	*43*	47	*50*	58	63	67	*68*	68	68	68	66	64	*59*	53	53	56	51	54.5	69	40
17	51	44	46	49	42	41	43	*37*	42	51	54	54	55	*56*	58	59	60	60	57	*53*	53	50	50	48	50.5	60	36
18	44	42	40	37	37	33	35	*38*	44	47	50	53	56	*59*	60	59	58	57	54	*52*	48	45	40	37	46.9	61	33
19	34	34	32	31	30	28	29	*28*	33	42	47	48	51	*54*	55	58	58	56	53	*50*	46	*42*	39	38	42.3	59	27
20	35	36	34	33	33	32	32	*44*	45	51	65	67	69	*70*	69	69	70	68	65	*58*	55	51	49	45	51.9	71	33
21	42	42	40	42	41	42	40	*42*	42	50	60	64	66	*68*	69	71	69	71	66	*62*	56	51	47	46	53.7	*73*	40
22	44	47	46	50	55	54	53	*54*	56	58	62	64	65	*67*	68	66	63	62	60	*58*	57	57	58	58	57.4	68	44
23	52	47	48	52	51	51	50	*49*	49	*50*	52	54	55	*56*	56	59	59	58	54	*53*	51	50	48	47	52.1	61	43
24	48	48	47	42	39	35	29	*33*	28	36	40	44	47	*51*	56	58	58	59	58	*51*	48	43	41	44	45.1	61	29
25	47	41	42	42	42	45	48	*48*	47	48	48	51	50	*50*	48	43	41	42	33	*32*	31	31	31	30	42.1	52	32
26	29	28	25	25	22	19	18	*15*	15	23	29	33	35	*43*	44	46	47	48	44	*37*	35	32	30	30	31.3	45	14
27	28	29	28	28	28	28	27	*27*	30	39	51	55	58	*59*	62	63	62	61	57	*53*	48	43	42	36	43.4	63	26
28	36	33	36	36	34	30	32	*33*	34	35	36	41	47	*50*	54	56	56	55	51	*44*	45	44	42	41	41.7	56	28
29	38	38	39	42	42	44	38	*37*	39	49	58	62	64	*66*	68	68	67	66	61	*59*	56	50	48	43	51.8	67	33
30	40	39	38	39	40	42	45	*46*	46	*49*	59	63	68	*67*	68	71	71	72	68	*59*	56	54	54	49	54.3	71	34
31	54	52	52	52	54	55	54	*47*	46	46	52	58	58	*64*	68	68	68	67	64	*58*	56	55	48	55	56.3	67	43
Mean.	42.5	41.1	40.7	40.1	39.5	38.6	37.8	38.2	39.9	45.4	51.0	54.8	57.1	58.9	60.3	61.1	60.8	60.7	57.9	53.5	50.5	48.0	45.9	44.3	48.7	62.7	34.0

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[October, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	N.	21	N.	20	N.	19	N.	20	N.	18	N.	18	N.	15	N.	12	N.	9	N.	6	N.	4	29	N.
2	S.	14	SE.	11	S.	8	S.	7	S.	7	S.	5	S.	2	*N.*	4	N.	2	N.	3	*NE.*	4	18	S.
3	S.	10	S.	9	S.	7	SE.	9	NW.	5	NW.	16	*NW.*	17	*N.*	6	*W.*	5	*NW.*	8	*N.*	4	25	NW.
4	SE.	10	E.	10	*E.*	8	W.	22	NW.	14	NW.	10	*W.*	15	N.	15	N.	7	NW.	16	*E.*	15	33	W.
5	NW.	20	NW.	16	NW.	26	NW.	25	NW.	19	N.	12	N.	14	*NW.*	9	NW.	6	NW.	23	NW.	16	39	NW.
6	SE.	6	S.	11	SE.	12	E.	15	*NW.*	15	NW.	23	NW.	10	N.	12	N.	14	N.	12	NE.	12	32	W.
7	S.	17	S.	20	S.	17	E.	9	N.	14	N.	12	NW.	10	N.	7	NW.	7	*W.*	5	W.	6	26	S.
8	*SE.*	11	S.	10	S.	12	S.	11	SE.	12	S.	9	S.	3	*S.*	4	*SE.*	5	*N.*	3	N.	6	25	NW.
9	SE.	6	W.	17	W.	15	W.	14	W.	10	W.	7	W.	3	N.	4	N.	4	N.	7	N.	5	25	W.
10	SE.	11	S.	14	S.	18	S.	19	S.	15	SE.	10	SE.	6	*NE.*	4	*SW.*	3	N.	17	N.	19	29	N.
11	N.	21	N.	26	N.	27	NE.	26	NE.	20	NE.	17	NE.	10	N.	3	*E.*	2	N.	5	N.	4	46	N.
12	S.	8	S.	9	S.	11	S.	9	S.	8	S.	8	S.	3	*S.*	2	N.	5	N.	10	N.	11	15	N.
13	*S.*	0	S.	8	S.	11	SE.	11	S.	9	S.	9	S.	6	S.	2	*S.*	4	NE.	3	*SE.*	2	42	N.
14	S.	5	S.	7	S.	6	S.	8	S.	6	S.	6	S.	3	S.	2	N.	6	N.	6	N.	10	10	N.
15	S.	6	*SE.*	7	*S.*	9	S.	12	*SE.*	15	S.	17	SE.	11	S.	3	N.	5	N.	9	N.	11	20	S.
16	*SW.*	8	*S.*	14	SW.	13	S.	14	S.	14	S.	13	S.	7	*S.*	4	N.	4	N.	5	N.	6	20	SW.
17	*SE.*	15	SE.	20	SE.	19	S.	22	S.	25	S.	13	SE.	5	E.	6	SE.	7	E.	9	*NW.*	5	28	S.
18	E.	5	S.	9	S.	12	S.	14	S.	10	S.	11	*SE.*	8	*S.*	5	*NE.*	2	NE.	4	N.	6	21	N.
19	SE.	4	SE.	5	S.	7	S.	7	SE.	12	SE.	10	SE.	7	S.	3	*N.*	3	N.	5	N.	6	14	SE.
20	S.	8	S.	11	S.	7	*SW.*	9	SW.	7	S.	6	S.	3	SE.	4	N.	6	N.	4	N.	6	14	SE.
21	SE.	6	SE.	7	SE.	8	*S.*	8	E.	4	SE.	4	*W.*	4	N.	5	NE.	8	N.	6	N.	8	12	N.
22	*SW.*	6	SW.	11	SW.	12	S.	20	S.	16	SW.	21	S.	18	S.	16	S.	15	S.	19	SW.	22	28	S.
23	NW.	31	NW.	25	NW.	23	NW.	16	NW.	18	NW.	17	NW.	19	NW.	12	*N.*	12	N.	16	N.	18	55	NW.
24	SE.	6	*S.*	8	S.	12	S.	17	*SE.*	16	*N.*	10	N.	15	N.	8	N.	11	N.	6	N.	12	23	S.
25	N.	8	N.	8	N.	17	NE.	10	*NE.*	12	NE.	21	N.	30	N.	26	N.	25	N.	24	N.	21	34	N.
26	S.	6	S.	7	*SE.*	10	S.	9	*SE.*	4	SW.	1	SW.	3	N.	4	N.	7	N.	9	N.	10	20	NE.
27	S.	7	S.	5	S.	6	*NE.*	11	*N.*	9	NE.	9	NE.	2	N.	3	N.	5	N.	4	N.	3	14	N.
28	*E.*	5	S.	5	SE.	6	*SE.*	6	SW.	3	SE.	5	SW.	3	*NE.*	7	N.	7	N.	9	N.	9	15	SE.
29	SE.	9	SE.	12	SE.	12	SE.	15	S.	12	*S.*	10	S.	8	SE.	9	E.	4	S.	3	NW.	4	17	SE.
30	*E.*	4	E.	8	*SE.*	6	SE.	6	*SW.*	7	W.	9	NW.	5	N.	4	N.	6	N.	7	N.	5	14	W.
31	E.	5	W.	14	W.	20	W.	16	*W.*	13	SW.	6	NW.	4	N.	4	W.	13	N.	10	N.	5	27	N.
Mean.	S.	9.8	S.	11.7	S.	12.8	S.	13.5	S.	11.9	S.	11.1	S.	8.7	N.	6.7	N.	7.1	N.	8.8	N.	8.9	.....	.....

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

NOTE.—All eye readings are printed in *italics*.

November, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	.84	.84	.84	.84	.84	.84	.84	.85	.83	.85	.85	.85	.84	.83	.81	.79	.79	.80	.83	.86	.86	.87	.89	.93	.84	.93	.79
2	.96	.98	.99	1.00	1.00	1.04	1.07	*1.09*	1.11	1.12	1.14	1.13	1.11	*1.08*	1.06	1.03	1.02	1.03	1.03	*1.04*	1.04	1.03	1.02	1.01	1.05	1.14	.96
3	.99	.98	.96	.95	.94	.92	.92	*.92*	.93	.94	.95	.96	.96	*.94*	.94	.94	.94	.95	.98	1.00	1.02	1.03	1.03	1.03	.96	1.03	.92
4	1.04	1.04	1.04	1.03	1.03	1.02	1.02	*1.03*	1.04	1.04	1.05	1.03	1.02	*.99*	.98	.97	.98	.99	1.01	*1.04*	1.06	1.07	1.08	1.09	1.03	1.09	.97
5	1.10	1.10	1.11	1.12	1.12	1.12	1.13	*1.14*	1.14	1.15	1.14	1.13	1.11	*1.08*	1.06	1.04	1.03	1.02	1.02	*1.04*	1.04	1.04	1.03	1.02	1.08	1.15	1.02
6	1.01	1.00	.98	.97	.95	.94	.94	*.93*	.93	*.94*	.94	.93	.92	*.87*	.86	.84	.83	.84	.84	*.86*	.86	.86	.88	.90	.91	1.01	.83
7	.93	.92	.92	.94	.95	.96	.98	*1.01*	1.02	1.04	1.05	1.05	1.06	*1.06*	1.06	1.06	1.07	1.08	1.10	*1.14*	1.15	1.17	1.19	1.21	1.04	1.21	.90
8	1.22	1.23	1.23	1.23	1.24	1.24	1.24	*1.25*	1.25	1.25	1.25	1.25	1.24	*1.22*	1.20	1.18	1.16	1.16	1.17	*1.18*	1.18	1.19	1.20	1.20	1.22	1.25	1.16
9	1.20	1.20	1.19	1.18	1.16	1.15	1.14	*1.15*	1.13	1.13	1.13	1.11	1.08	*1.04*	1.02	.99	.97	.96	.96	*.96*	.96	.96	.94	.93	1.07	1.20	.93
10	.92	.90	.88	.87	.86	.84	.84	*.83*	.83	.84	.84	.85	.85	*.85*	.85	.86	.89	.93	.98	*1.03*	1.07	1.08	1.11	1.12	.91	1.12	.83
11	1.14	1.16	1.16	1.18	1.20	1.22	1.23	*1.24*	1.25	1.26	1.26	1.26	1.25	*1.24*	1.24	1.23	1.22	1.22	1.23	*1.24*	1.24	1.24	1.24	1.24	1.22	1.26	1.14
12	1.23	1.22	1.21	1.21	1.20	1.20	1.20	*1.20*	1.20	1.20	1.21	1.21	1.21	*1.21*	1.18	1.18	1.17	1.17	1.19	*1.20*	1.21	1.21	1.21	1.21	1.20	1.23	1.17
13	1.22	1.22	1.21	1.21	1.19	1.19	1.19	*1.20*	1.22	*1.26*	1.29	1.31	1.31	*1.31*	1.30	1.28	1.27	*1.27*	1.26	*1.26*	1.26	1.25	1.25	1.25	1.25	1.31	1.19
14	1.25	1.25	1.25	1.25	1.26	1.27	1.27	*1.28*	1.28	1.28	1.27	1.26	1.26	*1.23*	1.21	1.18	1.18	1.19	1.19	*1.21*	1.22	1.23	1.23	1.23	1.24	1.28	1.18
15	1.23	1.22	1.21	1.20	1.19	1.17	1.17	*1.16*	1.15	1.15	1.14	1.14	1.12	*1.09*	1.06	1.03	1.02	1.01	1.01	*1.01*	1.00	.99	.98	.96	1.10	1.23	.96
16	.94	.92	.89	.86	.84	.81	.79	*.76*	.74	.72	.71	.69	.66	*.63*	.60	.57	.57	.57	.58	*.60*	.63	.64	.73	.78	.72	.94	.57
17	.82	.84	.87	.90	.92	.95	.98	*1.00*	1.01	1.03	1.04	1.06	1.05	*1.04*	1.02	1.01	1.00	1.00	1.01	*1.02*	1.02	1.02	1.02	1.02	1.07	1.06	.82
18	1.01	1.00	1.00	.99	.99	.99	1.00	*1.04*	1.05	1.06	1.07	1.10	1.11	*1.11*	1.10	1.09	1.08	1.09	1.09	*1.10*	1.12	1.12	1.13	1.13	1.06	1.13	.99
19	1.13	1.14	1.15	1.15	1.15	1.15	1.15	*1.16*	1.17	1.17	1.17	1.16	1.14	*1.12*	1.09	1.08	1.05	1.04	1.04	*1.05*	1.04	1.03	1.03	1.02	1.11	1.17	1.02
20	1.01	.98	.97	.94	.92	.90	.88	*.86*	.84	*.82*	.81	.79	.77	*.72*	.71	.67	.64	.63	.64	*.65*	.65	.65	.65	.65	.78	1.01	.63
21	.64	.66	.68	.70	.71	.72	.74	*.77*	.79	.79	.79	.79	.77	*.74*	.72	.71	.70	.72	.74	*.76*	.77	.78	.80	.80	.74	.80	.64
22	.81	.82	.82	.84	.86	.86	.90	*.91*	.93	.95	.95	.95	.95	*.94*	.93	.94	.95	.96	1.00	*1.04*	1.05	1.07	1.07	1.07	.94	1.07	.81
23	1.07	1.06	1.06	1.06	1.08	1.08	1.09	*1.10*	1.10	1.10	1.08	1.08	1.05	*1.02*	1.01	.97	.96	.96	.96	*.97*	.97	.97	.96	.96	1.03	1.10	.96
24	.95	.95	.94	.93	.93	.92	.92	*.93*	.94	.94	.95	.95	.94	*.92*	.90	.88	.88	.88	.89	*.91*	.92	.91	.89	.87	.92	.95	.87
25	.84	.82	.78	.77	.74	.70	.69	*.68*	.68	.67	.66	.63	.62	*.61*	.60	.60	.62	.63	.67	*.72*	.73	.75	.78	.80	.70	.84	.60
26	.82	.84	.86	.89	.91	.93	.94	*.95*	.95	.95	.94	.93	.91	*.87*	.85	.85	.85	.85	.86	*.87*	.87	.87	.88	.89	.89	.95	.82
27	.89	.93	.90	.91	.92	.92	.93	*.94*	.97	*.96*	.97	.96	.95	*.94*	.92	.92	.91	.95	.94	*.97*	.97	.94	.93	.92	.94	.97	.89
28	.92	.90	.90	.90	.89	.87	.87	*.87*	.87	.85	.84	.84	.81	*.80*	.78	.77	.79	.81	.82	*.83*	.83	.86	.88	.89	.85	.92	.77
29	.90	.91	.93	.94	.95	.97	.98	*1.00*	1.00	1.00	1.01	1.00	.98	*.98*	.96	.94	.93	.94	.93	*.92*	.92	.91	.90	.89	.95	1.01	.89
30	.87	.85	.82	.80	.81	.84	.85	*.85*	.86	.85	.87	.88	.91	*.92*	.93	.93	.96	1.00	1.05	*1.09*	1.10	1.11	1.10	1.09	.93	1.11	.80
Mean	1.00	1.00	.99	.99	.99	.99	1.00	*1.00*	1.01	1.01	1.01	1.01	1.03	*.98*	.96	.95	.95	.96	.97	*.98*	.99	1.00	1.00	1.00	.99	1.08	.96

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

November, 1893.]

Day.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.		Noon–1h p. m.	
1	NW.	11	E.	5	SW.	3	SW.	4	NW.	6	N.	7	N.	10	N.	5	*NW.*	5	NW.	3	SE.	2	E.	4	E.	5
2	NW.	14	N.	26	N.	18	N.	18	N.	19	N.	8	NW.	5	SE.	10	SE.	9	S.	12	S.	12	*S.*	18	SE.	16
3	N.	2	N.	6	N.	10	N.	8	N.	5	N.	6	N.	13	N.	9	N.	14	NE.	15	NE.	18	NE.	14	NE.	8
4	N.	9	N.	8	N.	10	N.	8	N.	8	N.	4	NE.	6	*N.*	8	N.	5	N.	4	SE.	4	SE.	7	*SE.*	7
5	N.	10	N.	8	N.	9	N.	10	N.	10	N.	10	N.	10	N.	9	N.	10	N.	9	N.	4	SE.	6	*W.*	14
6	N.	9	N.	7	N.	8	N.	9	N.	8	N.	5	N.	4	N.	4	W.	3	N.	4	*NE.*	3	N.	2	N.	3
7	N.	17	N.	13	N.	12	N.	9	N.	11	N.	10	N.	12	N.	10	N.	10	N.	10	N.	15	NE.	18	*NE.*	24
8	N.	7	N.	9	N.	8	N.	10	N.	9	N.	8	N.	8	N.	9	N.	6	N.	9	N.	4	N.	2	SE.	5
9	N.	10	N.	9	N.	10	N.	11	N.	10	N.	11	N.	12	N.	12	N.	10	N.	10	N.	3	N.	2	NE.	1
10	N.	13	N.	10	N.	10	N.	7	N.	5	NW.	13	NW.	8	*N.*	5	N.	8	*NE.*	10	N.	14	N.	14	N.	20
11	N.	33	N.	34	N.	36	N.	39	*N.*	40	NW.	37	N.	32	N.	21	N.	25	N.	21	N.	15	NE.	16	NE.	23
12	N.	8	N.	11	N.	13	N.	11	N.	10	N.	12	N.	10	N.	11	N.	10	N.	8	N.	8	N.	8	N.	9
13	N.	8	N.	7	N.	8	N.	9	N.	11	N.	11	N.	9	N.	10	N.	12	N.	18	N.	24	N.	19	N.	18
14	*N.*	4	N.	1	N.	2	*NE.*	2	NE.	4	NE.	6	NE.	14	NE.	5	N.	3	E.	2	E.	3	*SE.*	3	S.	5
15	N.	7	N.	7	N.	10	N.	8	N.	8	N.	9	N.	7	N.	9	N.	7	N.	6	N.	6	N.	5	*E.*	3
16	N.	7	N.	6	N.	6	N.	4	N.	3	N.	4	N.	5	N.	4	N.	7	S.	4	*S.*	5	S.	8	S.	11
17	N.	30	N.	24	N.	29	N.	31	N.	32	N.	31	N.	27	N.	26	N.	25	N.	22	N.	23	N.	21	N.	16
18	S.	10	SE.	9	SE.	6	*SE.*	4	*E.*	5	*NE.*	3	*N.*	2	E.	3	W.	3	*NW.*	3	N.	12	N.	18	NE.	12
19	N.	8	N.	8	N.	11	N.	9	N.	8	N.	10	N.	10	N.	12	N.	11	N.	12	N.	8	N.	4	SE.	4
20	*N.*	9	N.	11	N.	10	N.	7	N.	7	N.	6	N.	11	N.	12	N.	11	N.	10	N.	9	*NW.*	7	NE.	11
21	NW.	47	NW.	54	NW.	48	NW.	41	NW.	32	NW.	12	N.	22	NW.	19	NW.	29	NW.	27	NW.	23	NW.	17	N.	10
22	SE.	8	*E.*	9	S.	15	S.	16	S.	12	E.	10	E.	8	*NE.*	3	NE.	3	N.	6	N.	5	*W.*	7	NW.	11
23	N.	5	N.	5	N.	7	N.	7	N.	7	N.	8	N.	10	N.	6	N.	5	N.	7	N.	4	SE.	5	S.	5
24	N.	8	N.	6	N.	6	N.	3	N.	2	N.	4	*SW.*	5	*N.*	5	*W.*	5	*NE.*	4	*S.*	5	SE.	8	S.	11
25	N.	7	N.	4	N.	5	N.	5	N.	7	N.	10	N.	9	N.	8	N.	6	N.	6	N.	4	*NW.*	3	NW.	14
26	NW.	5	*NE.*	3	*N.*	4	NE.	6	N.	8	N.	8	NW.	7	NW.	2	N.	8	N.	8	N.	8	N.	5	*SE.*	5
27	N.	8	S.	7	*SW.*	5	NW.	3	*NW.*	5	N.	3	N.	4	N.	5	N.	5	N.	4	N.	3	*S.*	4	NW.	14
28	SW.	6	*NE.*	10	*SW.*	5	SE.	9	W.	8	W.	23	NW.	32	NW.	22	NW.	18	NW.	8	*S.*	14	W.	21	W.	18
29	N.	20	NW.	19	N.	18	NE.	15	N.	9	N.	7	N.	7	*SW.*	5	SW.	4	SW.	6	S.	6	S.	9	SE.	14
30	*N.*	5	SW.	5	E.	8	*SE.*	9	*W.*	21	NW.	30	NW.	34	NW.	39	NW.	46	NW.	50	NW.	40	NW.	35	N.	30
Mean	N.	11.5	N.	11.4	N.	11.7	N.	11.1	N.	11.0	N.	10.9	N.	11.8	N.	10.1	N.	10.8	N.	10.7	N.	10.1	N.	10.3	N.	11.6

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [November, 1893.

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	55	54	49	47	43	40	40	*42*	45	50	56	57	60	*62*	64	66	68	67	62	*58*	60	54	54	54	54.5	67	35
2	42	37	34	32	30	28	26	*24*	24	25	26	29	30	*33*	35	37	36	36	35	*33*	32	30	*27*	27	31.2	37	23
3	25	22	21	21	23	31	38	*40*	34	42	41	47	50	*51*	51	54	53	52	46	*40*	37	31	28	28	36.8	55	20
4	27	27	27	27	27	30	28	*31*	34	41	49	53	55	*56*	57	58	57	56	51	*48*	45	42	37	37	41.7	59	24
5	32	32	32	31	30	29	30	*28*	30	*38	*46	*51	*54	*56	56	57	57	56	52	*49*	48	43	38	37	42.2	57	27
6	34	34	33	35	36	38	40	*44*	44	*47*	46	50	55	*59*	59	58	58	58	56	*56*	55	53	51	47	47.8	61	32
7	42	42	44	39	38	37	33	*37*	36	42	49	50	52	*53*	52	53	52	51	48	*46*	44	37	36	34	43.6	54	32
8	32	34	30	32	31	31	30	*31*	31	38	47	52	54	*55*	56	57	57	56	51	*43*	37	31	31	28	40.6	57	27
9	28	27	27	27	26	26	27	*28*	27	39	46	56	59	*59*	60	60	60	59	53	*46*	41	35	33	31	40.8	60	25
10	33	38	34	39	49	53	50	*46*	47	47	47	47	49	*47*	46	43	39	36	31	*29*	26	27	26	25	39.8	49	23
11	25	25	25	23	23	23	22	*21*	21	21	22	25	25	*27*	27	28	29	27	25	*24*	18	17	14	13	22.9	31	20
12	10	12	11	12	15	13	18	*17*	24	30	36	45	47	*47*	48	49	48	47	43	*37*	32	32	30	32	30.6	49	9
13	30	27	25	23	27	24	26	*28*	32	*40*	36	38	39	*38*	34	35	35	35	34	*34*	33	32	29	26	31.7	40	22
14	28	29	29	29	28	26	24	*23*	20	24	30	32	34	*36*	38	40	40	38	34	*31*	27	25	24	22	29.6	41	19
15	21	23	28	27	28	26	25	*25*	27	32	42	50	53	*55*	55	54	53	50	43	*37*	36	33	30	31	36.8	56	21
16	30	29	30	34	34	33	39	*40*	48	44	50	55	58	*60*	62	62	61	59	55	*50*	45	41	32	30	45.0	62	25
17	28	25	24	22	21	20	19	*18*	16	16	15	17	19	*20*	20	22	19	18	16	*16*	15	16	16	16	18.9	23	16
18	16	16	16	16	15	15	15	*16*	15	25	29	31	32	*33*	35	35	34	32	29	*28*	23	19	18	15	23.2	36	14
19	14	13	13	14	13	12	11	*13*	13	20	31	44	45	*44*	44	43	43	42	37	*33*	23	24	22	20	26.4	45	11
20	19	20	23	25	31	30	27	*27*	26	*31*	41	50	51	*52*	54	55	55	54	53	*51*	52	50	47	46	40.4	55	19
21	45	44	44	43	43	42	41	*39*	39	40	42	44	46	*48*	50	49	50	41	38	*34*	31	30	29	27	40.8	50	34
22	26	25	22	20	20	19	19	*20*	19	19	22	26	28	*29*	29	26	24	22	18	*16*	14	11	10	10	20.6	31	16
23	7	4	4	4	2	4	4	*7*	4	7	14	17	20	*23*	24	24	25	23	21	*21*	17	*15*	14	13	13.2	26	2
24	15	13	13	13	14	15	20	*28*	31	41	43	48	49	*50*	51	50	48	47	42	*38*	33	32	28	27	32.9	51	12
25	26	22	23	21	22	24	25	*25*	29	32	34	42	50	*52*	52	50	49	47	42	*43*	38	36	35	35	35.6	54	20
26	35	34	33	30	29	30	28	*28*	21	19	23	31	32	*33*	34	34	36	37	40	*42*	42	41	42	41	33.1	44	19
27	38	34	33	30	31	30	32	*32*	28	*32*	38	43	50	*52*	53	53	52	53	50	*46*	44	43	43	40	40.8	54	27
28	39	42	45	42	50	53	55	*52*	49	51	56	56	57	*57*	55	54	51	48	48	*48*	47	47	44	43	49.5	58	38
29	43	43	42	37	33	32	30	*32*	34	39	43	47	48	*53*	55	57	57	55	52	*48*	47	48	42	44	44.2	58	29
30	44	43	44	50	54	51	52	*51*	52	54	58	57	55	*55*	55	54	41	39	38	*39*	27	24	21	22	44.6	58	30
Mean.	29.7	29.0	28.6	28.2	28.9	28.8	29.1	29.7	30.0	34.2	38.6	43.0	45.2	46.5	47.0	47.2	46.3	44.7	41.4	38.4	35.7	33.3	31.0	30.0	36.0	49.3	22.6

* Interpolated.

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[November, 1893.

Day.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Mid.	Max.	Direction.
1	S. 8	SE. 8	*E.* 11	*S.* 7	SW. 8	*W.* 9	SW. 7	SW. 6	NW. 6	NW. 6	NW. 8	20	SE.
2	SE. 11	S. 10	*SE.* 13	SE. 12	SE. 14	SE. 8	SE. 6	SE. 4	SE. 5	E. 2	N. 3	30	N.
3	E. 4	E. 5	E. 6	*S.* 6	S. 7	S. 12	SE. 7	*E.* 4	E. 2	N. 6	N. 8	22	NE.
4	S. 7	S. 9	*S.* 8	S. 9	S. 10	*SE.* 6	NW. 5	N. 7	N. 5	N. 7	N. 9	12	N.
5	S. 24	S. 23	S. 21	S. 21	*SE.* 22	SE. 16	*S.* 14	SE. 10	SE. 6	N. 4	N. 9	29	S.
6	N. 8	S. 11	S. 7	S. 7	*SE.* 2	*N.* 4	*W.* 8	NW. 10	NW. 27	NW. 29	NW. 19	37	NW.
7	N. 22	NE. 22	N. 18	NE. 18	NE. 17	N. 12	N. 6	N. 4	N. 6	N. 8	N. 9	28	NE.
8	*S.* 6	*SE.* 7	SE. 9	*S.* 9	SE. 9	S. 6	S. 2	N. 3	N. 7	N. 8	N. 8	11	N.
9	S. 5	S. 7	S. 10	SE. 10	SE. 10	S. 12	SE. 7	*SE.* 4	N. 4	N. 8	N. 11	14	S.
10	N. 22	N. 27	N. 20	N. 23	N. 24	N. 25	N. 26	N. 30	N. 30	N. 30	N. 28	33	N.
11	N. 18	*NE.* 14	*N.* 14	N. 12	N. 16	N. 11	N. 4	N. 6	N. 9	N. 9	N. 9	46	N.
12	NE. 15	NE. 15	N. 14	N. 14	N. 13	N. 9	N. 2	N. 6	N. 8	N. 8	N. 9	19	NE.
13	N. 24	N. 23	N. 22	N. 14	N. 7	N. 4	*NE.* 4	NE. 1	SE. 3	SE. 2	SE. 2	28	N.
14	SE. 6	S. 4	S. 5	S. 5	S. 4	S. 6	S. 3	*S.* 4	N. 7	N. 7	N. 9	16	NE.
15	S. 5	S. 7	S. 12	*SE.* 12	SE. 8	SE. 5	E. 3	N. 3	N. 6	N. 8	N. 8	15	S.
16	S. 13	W. 10	NW. 16	NW. 14	NW. 13	NW. 13	W. 12	N. 9	N. 12	N. 19	N. 36	44	N.
17	N. 12	N. 5	S. 6	S. 17	S. 19	S. 17	*SE.* 15	SE. 13	SE. 12	*S.* 10	*SE.* 12	38	N.
18	NE. 7	E. 4	*SE.* 7	S. 8	S. 9	S. 9	SE. 8	*S.* 3	NW. 2	N. 6	N. 5	24	N.
19	SE. 8	*SE.* 10	S. 10	S. 8	S. 9	S. 6	*S.* 3	N. 4	N. 7	N. 9	N. 7	14	N.
20	NE. 12	NE. 11	N. 10	N. 8	NE. *2	N. 4	N. 12	*N.* 13	N. 13	N. 27	NW. 41	49	NW.
21	E. 9	W. 14	W. 13	*S.* 9	E. 23	*SE.* 12	S. 10	SE. 3	E. 9	E. 9	E. 9	65	NW.
22	NW. 22	NW. 25	N. 20	N. 18	N. 21	N. 19	N. 16	N. 16	*N.* 7	NE. 2	*NE.* 3	31	NW.
23	S. 6	SE. 7	S. 9	S. 10	S. 12	SE. 5	*E.* 4	N. 4	N. 5	N. 8	N. 7	15	S.
24	S. 14	S. 14	S. 14	S. 15	*SE.* 15	SE. 11	SE. 8	*E.* 6	E. 5	N. 5	N. 6	19	S.
25	NW. 17	*N.* 12	*NW.* 16	NW. 12	*W.* 6	E. 11	*N.* 7	*SE.* 9	*E.* 4	*S.* 4	*SW.* 2	23	NW.
26	SE. 6	*S.* 4	*NW.* 4	NW. 5	NW. 2	*W.* 3	NW. 30	N. 20	N. 17	N. 10	N. 19	35	N.
27	NW. 19	NW. 29	NW. 33	NW. 29	NW. 11	NW. 7	*W.* 7	*NW.* 9	*SE.* 7	SE. 7	S. 7	41	NW.
28	W. 22	W. 15	W. 19	NW. 29	NW. 22	W. 19	NW. 27	NW. 36	NW. 31	NW. 22	NW. 27	46	NW.
29	S. 13	S. 12	NW. 7	*NW.* 10	S. 6	*S.* 7	W. 9	NE. 8	E. 8	*E.* 5	NW. 4	28	NW.
30	NW. 32	NW. 39	NW. 44	NE. 28	NE. 24	N. 8	S. 16	SE. 15	SE. 7	E. 4	N. 6	57	NW.
Mean.	S. 13.2	S. 13.4	S. 13.9	S. 13.3	S. 12.2	N. 9.9	N. 9.6	N. 9.0	N. 9.2	N. 9.6	N. 11.3	.....	.....

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

NOTE.—All eye readings are printed in *italics*.

December, 1893.] [Seventy-fifth

Day.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	1.09	1.08	1.07	1.05	1.03	1.02	1.01	*1.03*	1.01	1.00	1.00	1.00	.99	*.96*	.94	.91	.90	.86	.85	*.84*	.84	.83	.82	.80	.96	1.09	.80
2	.77	.75	.73	.72	.69	.74	.74	*.70*	.72	.76	.80	.87	.88	*.91*	.92	.94	.98	1.00	1.04	*1.10*	1.14	1.16	1.18	1.20	.89	1.20	.69
3	1.28	1.25	1.28	1.30	1.32	1.32	1.32	*1.33*	1.34	1.34	1.31	1.30	1.28	*1.26*	1.23	1.19	1.18	1.17	1.17	*1.16*	1.15	1.14	1.12	1.11	1.24	1.34	1.11
4	1.10	1.08	1.05	1.04	1.01	1.01	1.01	*1.00*	1.01	*1.02*	1.01	1.00	1.00	*.96*	.97	.97	.99	1.00	1.02	*1.04*	1.05	1.04	1.04	1.06	1.02	1.10	.96
5	1.08	1.06	1.05	1.05	1.05	1.04	1.04	*1.05*	1.06	1.08	1.09	1.09	1.11	*1.11*	1.10	1.09	1.12	1.14	1.15	*1.20*	1.21	1.24	1.25	1.28	1.11	1.28	1.04
6	1.28	1.28	1.28	1.28	1.27	1.27	1.27	*1.28*	1.28	1.26	1.25	1.24	1.22	*1.18*	1.15	1.14	1.12	1.10	1.10	*1.10*	1.10	1.10	1.09	1.08	1.20	1.28	1.08
7	1.05	1.02	.99	.98	.97	.95	.96	*.96*	.97	.97	.99	.99	.98	*.97*	.97	.95	.96	.96	.97	*.98*	.99	.99	.99	.98	.98	1.05	.95
8	.97	.96	.94	.93	.92	.90	.90	*.89*	.89	.88	.88	.90	.89	*.88*	.85	.85	.86	.88	.91	*.93*	.95	.96	.96	.96	.91	.97	.85
9	.96	.96	.95	.95	.95	.94	.94	*.95*	.98	.99	.98	.99	.99	*.97*	.95	.94	.94	.94	.95	*.96*	.97	.96	.95	.94	.96	.99	.94
10	.93	.92	.90	.89	.89	.89	.89	*.89*	.89	.89	.89	.89	.87	*.84*	.82	.80	.80	.79	.79	*.80*	.80	.80	.79	.79	.85	.93	.79
11	.78	.78	.79	.80	.81	.82	.82	*.84*	.85	.87	.84	.84	.83	*.88*	.88	.88	.90	.93	.96	*.96*	.96	.98	.99	.99	.87	.99	.78
12	1.02	1.05	1.08	1.10	1.12	1.12	1.12	*1.16*	1.18	1.18	1.19	1.19	1.19	*1.17*	1.14	1.14	1.15	1.15	1.15	*1.17*	1.17	1.17	1.16	1.14	1.14	1.19	1.02
13	1.14	1.14	1.14	1.12	1.10	1.09	1.08	*1.07*	1.05	1.05	1.05	1.04	1.03	*.99*	.97	.97	.95	.95	1.00	*.98*	.99	.99	.98	1.04	1.14	.95
14	.98	.97	.96	.95	.94	.92	.89	*.88*	.88	.88	.85	.82	.79	*.77*	.74	.72	.72	.70	.71	*.71*	.71	.72	.70	.70	.82	.98	.70
15	.74	.74	.77	.82	.84	.83	.83	*.83*	.85	.88	.93	.97	1.01	*1.01*	1.01	1.05	1.07	1.08	1.09	*1.10*	1.13	1.15	1.15	1.15	.96	1.15	.74
16	1.15	1.14	1.14	1.14	1.14	1.15	1.16	*1.16*	1.16	1.19	1.19	1.21	1.21	*1.23*	1.23	1.26	1.25	1.30	1.32	*1.32*	1.32	1.33	1.34	1.34	1.22	1.34	1.14
17	1.34	1.32	1.30	1.28	1.27	1.25	1.25	*1.26*	1.25	1.25	1.25	1.25	1.23	*1.21*	1.19	1.18	1.16	1.15	1.16	*1.16*	1.14	1.13	1.12	1.12	1.22	1.34	1.12
18	1.11	1.10	1.09	1.09	1.09	1.09	1.09	*1.09*	1.09	*1.09*	1.12	1.13	1.13	*1.13*	1.11	1.09	1.08	1.09	1.12	*1.15*	1.17	1.18	1.18	1.19	1.12	1.19	1.08
19	1.20	1.20	1.21	1.21	1.21	1.20	1.19	*1.19*	1.20	1.20	1.20	1.19	1.18	*1.14*	1.11	1.09	1.09	1.09	1.09	*1.09*	1.09	1.09	1.10	1.09	1.15	1.21	1.09
20	1.08	1.08	1.08	1.07	1.07	1.07	1.07	*1.07*	1.07	1.08	1.08	1.08	1.07	*1.05*	1.02	1.01	1.01	1.01	1.02	*1.03*	1.04	1.05	1.04	1.04	1.05	1.08	1.01
21	1.05	1.05	1.05	1.04	1.04	1.04	1.02	*1.03*	1.03	1.02	1.02	1.01	1.00	*.95*	.93	.89	.87	.87	.88	*.89*	.89	.89	.89	.89	.97	1.05	.87
22	.89	.89	.90	.90	.91	.91	.91	*.93*	.95	.96	.97	.99	1.00	*.98*	.96	.95	.94	.96	.96	*.97*	.95	.95	.95	.94	.94	1.00	.89
23	.93	.91	.90	.88	.85	.84	.84	*.82*	.83	.81	.81	.81	.81	*.78*	.77	.74	.73	.74	.74	*.75*	.76	.77	.76	.76	.81	.93	.73
24	.78	.77	.76	.75	.75	.73	.71	.71	.73	.74	.75	.75	.74	.74	.74	.75	.78	.83	.88	*.90*	.95	.96	1.00	1.02	.80	1.02	.71
25	1.05	1.06	1.07	1.09	1.11	1.11	1.12	*1.14*	1.15	*1.15*	1.10	1.16	1.15	*1.15*	1.14	1.13	1.13	1.15	1.18	*1.20*	1.22	1.22	1.21	1.22	1.14	1.22	1.05
26	1.24	1.24	1.25	1.25	1.26	1.27	1.28	*1.29*	1.31	1.32	1.33	1.33	1.32	*1.28*	1.26	1.24	1.24	1.23	1.24	*1.25*	1.25	1.24	1.23	1.22	1.26	1.33	1.22
27	1.18	1.15	1.13	1.11	1.09	1.06	1.05	*1.02*	1.01	.98	.98	.98	.96	*.92*	.91	.91	.91	.91	.91	*.91*	.91	.91	.90	.88	.99	1.18	.88
28	.86	.85	.84	.83	.83	.82	.80	*.78*	.78	.78	.79	.79	.78	*.76*	.75	.75	.74	.74	.72	*.73*	.73	.74	.74	.73	.78	.86	.72
29	.73	.73	.73	.73	.74	.75	.76	*.77*	.78	.79	.80	.81	.81	*.81*	.82	.82	.82	.83	.87	*.89*	.90	.90	.91	.92	.81	.92	.73
30	.93	.94	.95	.96	.97	.96	.95	*.96*	.96	.97	.97	.98	.99	*.98*	.97	.96	.95	.97	1.00	*1.02*	1.04	1.05	1.06	1.07	.98	1.07	.93
31	1.07	1.07	1.08	1.09	1.10	1.10	1.11	*1.13*	1.13	1.14	1.15	1.16	1.14	*1.11*	1.11	1.10	1.09	1.08	1.09	*1.09*	1.09	1.09	1.09	1.08	1.10	1.16	1.07
Mean.	1.02	1.02	1.02	1.01	1.01	1.01	1.00	*1.01*	1.01	1.02	1.02	1.02	1.02	1.00	.99	.98	.98	.99	1.00	*1.01*	1.02	1.02	1.02	1.01	1.08	.92

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

Italics indicate additional directions.

December, 1893.]

Day.	0–1h a. m.	1–2h	2–3h	3–4h	4–5h	5–6h	6–7h	7–8h	8–9h	9–10h	10–11h	11–Noon.	Noon–1h p. m.
1	N. 6	N. 3	N. 5	N. 5	N. 6	N. 5	NW. 3	SE. 5	S. 6	NW. 6	NW. 6	N. 10	S. 12
2	*NE.* 5	*NW.* 4	W. 18	W. 39	*W.* 32	N. 29	*W.* 18	N. 24	NW. 40	NW. 34	NW. 32	N. 30	N. 31
3	N. 19	N. 14	N. 16	N. 11	N. 7	N. 8	N. 7	N. 6	N. 8	N. 8	N. 4	*SE.* 4	S. 8
4	NE. 4	*S.* 5	SE. 3	N. 5	*W.* 15	NW. 24	NW. 33	NW. 30	NW. 28	SW. 9	SW. 4	SW. 7	S. 9
5	*S.* 7	*NE.* 3	NE. 2	*NE.* 2	*NE.* 3	SE. 5	SE. 3	E. 3	N. 3	N. 9	N. 12	N. 19	N. 18
6	N. 7	N. 4	*N.* 9	N. 3	NW. 1	NE. 5	N. 6	N. 7	N. 8	N. 10	N. 7	N. 3	SE. 3
7	NW. 5	*NE.* 9	NE. 13	NE. 12	*NW.* 12	*W.* 8	*N.* 14	NE. 11	NE. 14	N. 15	N. 12	N. 6	NW. 11
8	N. 7	N. 6	N. 6	N. 7	N. 6	N. 7	N. 4	N. 6	NE. 7	NE. 4	*S.* 17	NW. 18	*N.* 17
9	NW. 3	*SE.* 2	*N.* 4	N. 2	E. 1	*NE.* 4	N. 4	N. 5	N. 4	N. 4	N. 5	N. 3	NE. 3
10	N. 5	N. 5	SW. 6	SW. 6	SW. 8	SW. 8	W. 7	NW. 5	*W.* 4	N. 6	*N.* 5	*NW.* 3	SW. 2
11	N. 5	N. 6	N. 5	N. 5	N. 6	N. 6	NW. 5	NW. 6	*SE.* 5	N. 4	N. 4	*SW.* 4	S. 11
12	N. 5	S. 4	*S.* 3	*SE.* 2	SE. 7	SE. 8	SE. 8	S. 8	SE. 8	S. 8	*S.* 6	*E.* 2	S. 4
13	N. 3	N. 2	*S.* 2	SW. 3	NE. 3	NE. 8	E. 6	E. 9	E. 4	*N.* 4	N. 5	W. 6	S. 8
14	*S.* 7	N. 6	N. 8	N. 9	N. 7	E. 7	E. 8	E. 11	W. 16	*E.* 9	W. 16	W. 26	W. 30
15	W. 29	NW. 29	NW. 36	NW. 26	NW. 21	NW. 18	NW. *16	NW. *20	W. *21	E. *15	N. *11	N. *10	N. 16
16	N. 7	N. 7	N. 7	N. 7	N. 8	N. 5	NW. 16	NW. 20	NW. 29	NW. 25	NW. 20	NW. 19	NW. 19
17	N. 7	N. 9	N. 9	N. 10	*NW.* 4	N. 5	*E.* 3	NW. 4	N. 7	N. 7	N. 7	N. 3	*E.* 3
18	N. 11	N. 9	N. 9	N. 10	N. 9	N. 12	N. 11	N. 10	N. 9	N. 6	N. 6	N. 5	*N.* 2
19	N. 6	N. 7	N. 7	N. 7	N. 6	N. 7	N. 7	N. 9	N. 6	N. 9	N. 5	N. 4	*NE.* 2
20	N. 8	N. 7	N. 9	N. 12	N. 7	N. 6	N. 3	N. 5	N. 7	N. 9	N. 8	N. 6	N. 3
21	N. 3	N. 4	N. 6	N. 5	N. 4	N. 3	N. 5	*W.* 5	*N.* 5	*NW.* 6	*SW.* 4	S. 5	S. 8
22	*W.* 2	N. 4	*SW.* 5	NE. 3	SE. 5	N. 5	*NE.* 5	*N.* 4	W. 5	*NW.* 4	N. 3	N. 6	*NE.* 3
23	*E.* 4	*N.* 3	*NE.* 4	*N.* 2	N. 1	N. 3	N. 4	N. 7	N. 5	N. 8	N. 5	*W.* 3	*W.* 5
24	N. 17	N. 22	N. 23	N. 20	N. 20	N. 21	N. 24	N. 22	N. 22	N. 23	N. 22	N. 20	N. 24
25	N. 4	N. 7	N. 8	N. 6	*E.* 3	N. 8	N. 8	N. 6	SE. 3	W. 3	NW. 3	*N.* 2	
26	N. 5	*N.* 3	*NE.* 4	*W.* 5	*N.* 4	*S.* 4	*SW.* 2	N. 5	N. 4	N. 6	N. 6	N. 4	N. *1
27	NE. 2	NE. 3	N. 3	*N.* 5	N. 5	N. 7	N. 8	N. 6	N. 8	N. 8	N. 7	S. 6	S. 15
28	N. 5	N. 5	N. 4	N. 4	N. 4	*W.* 7	NW. 18	NW. 22	NW. 12	*NE.* 12	*N.* 13	N. 16	*NW.* 19
29	*S.* 3	*SW.* 4	E. 7	*W.* 5	*N.* 4	*NE.* 8	N. 17	*NE.* 8	*N.* 6	*E.* 4	*N.* 4	SE. 4	SW. 4
30	N. 6	N. 6	N. 7	N. 8	N. 10	N. 8	N. 10	N. 9	N. 7	N. 10	N. 4	*NE.* 4	S. 6
31	N. 9	N. 8	N. 8	N. 8	N. 7	N. 10	N. 9	N. 9	N. 10	N. 9	N. 9	*N.* 5	*N.* 3
Mean.	N. 6.9	N. 6.8	N. *8.3	N. 8.2	N. 7.7	N. 8.5	N. 9.3	N. 9.8	N. 10.4	N. 9.5	N. 8.8	N. 8.5	N. 9.7

* Interpolated.

COLORADO SPRINGS, COLO.

TEMPERATURE.

NOTE.—All eye readings are printed in *italics*.

Meridian Time.] [December, 1893.

Day.	1h a. m	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max.	Min.
1	22	21	21	20	20	20	23	*25*	27	29	50	50	51	*52*	51	54	56	55	51	*50*	51	53	46	47	39.4	57	19
2	48	44	54	47	46	40	41	*43*	41	40	35	32	35	*35*	36	34	34	32	30	*30*	27	29	27	25	36.9	43	30
3	25	25	25	22	17	17	19	*15*	16	19	26	30	32	*34*	35	36	37	36	33	*26*	26	22	21	21	25.6	38	14
4	28	29	30	36	47	46	46	*47*	43	*42*	45	44	54	*55*	55	53	52	50	47	*44*	44	42	37	33	43.7	56	26
5	33	31	30	30	29	27	26	*27*	27	26	28	30	31	*32*	32	32	30	27	28	*26*	23	20	17	15	27.4	33	26
6	18	15	15	14	15	13	11	*10*	10	13	20	29	33	*34*	36	37	37	35	32	*29*	29	30	28	22	24.0	38	8
7	32	46	45	45	41	39	45	*43*	44	44	45	46	46	*48*	42	42	41	41	39	*37*	35	32	28	26	40.3	48	25
8	25	23	23	23	20	24	23	*25*	29	32	41	43	40	*41*	41	41	40	35	32	*32*	31	30	30	30	31.4	44	20
9	30	27	26	27	24	23	24	*24*	24	24	26	32	38	*40*	39	39	40	37	34	*33*	29	27	22	23	29.6	40	23
10	21	24	25	27	30	32	32	*30*	29	31	34	37	42	*45*	51	55	56	54	50	47	44	42	41	39	38.2	57	20
11	39	38	35	37	35	36	38	*36*	37	*38*	47	51	54	*54*	54	54	54	52	45	*42*	39	36	35	31	42.4	55	30
12	29	28	25	25	25	24	23	*22*	22	21	21	21	22	*24*	25	26	26	26	26	*22*	19	21	22	24	23.7	28	21
13	25	23	22	21	27	30	27	*28*	27	32	39	49	54	*51*	54	58	58	55	50	*48*	44	42	40	48	39.7	58	19
14	38	37	35	36	37	46	50	*52*	48	52	53	53	54	*54*	54	54	53	51	49	*47*	44	42	43	42	46.9	56	32
15	38	37	36	35	34	33	32	*31*	32	32	34	36	36	*36*	34	34	34	33	33	*32*	31	27	22	19	32.5	39	30
16	19	19	20	20	23	26	42	*46*	48	51	52	53	53	*54*	53	53	52	48	42	*37*	32	27	23	23	38.2	54	19
17	26	22	25	26	28	25	25	*26*	22	30	40	48	49	*52*	55	56	56	56	44	*38*	33	32	31	34	36.6	56	21
18	34	40	36	36	35	35	34	*38*	37	*36*	39	44	48	*49*	51	51	51	50	43	*36*	33	27	26	25	38.9	51	30
19	20	22	21	18	18	19	18	*20*	16	19	21	29	34	*35*	36	36	36	35	33	*28*	25	24	24	22	25.4	37	16
20	22	22	25	27	30	30	32	*33*	31	30	36	45	52	*52*	52	52	51	49	42	*38*	36	34	33	33	37.0	52	21
21	33	33	33	35	35	35	39	*40*	39	44	49	51	53	*54*	54	55	56	53	49	*47*	45	42	43	42	44.1	56	30
22	43	41	42	43	45	45	48	*48*	43	42	44	46	52	*52*	52	51	50	47	44	*42*	40	38	35	35	44.5	52	38
23	34	32	30	30	31	29	28	*28*	28	30	38	45	47	*48*	52	55	56	54	47	*45*	43	41	40	40	39.6	57	26
24	35	34	33	32	30	29	29	*28*	28	28	28	29	29	*32*	32	31	30	26	24	*24*	22	21	21	20	28.1	33	23
25	16	15	14	13	16	17	16	*16*	14	*16*	20	30	35	*40*	44	44	43	39	37	*31*	30	29	26	25	26.1	45	11
26	22	23	24	26	25	26	27	*23*	22	23	28	40	44	*46*	46	45	44	42	36	*34*	34	31	31	28	32.1	46	18
27	24	23	21	19	18	17	17	*16*	18	20	30	35	48	*48*	48	48	47	45	43	*41*	34	32	33	28	31.4	50	16
28	25	28	30	28	28	33	34	*34*	34	34	34	35	36	*38*	38	39	38	38	35	*34*	28	25	24	22	32.2	39	22
29	20	22	24	24	24	26	29	*28*	25	24	26	29	32	*35*	24	26	25	24	22	*20*	20	19	19	17	23.9	33	18
30	15	11	8	4	3	4	4	*3*	16	13	19	25	27	*29*	33	34	35	35	31	*26*	22	18	19	17	18.8	36	2
31	18	17	18	21	19	20	19	*19*	16	18	25	35	41	*43*	44	45	45	44	38	*32*	29	23	22	20	28.0	47	14
Mean	27.6	27.5	27.5	27.3	27.6	27.9	29.1	29.1	28.8	30.1	34.6	38.8	42.0	42.8	43.6	44.2	44.0	42.1	38.4	35.4	33.0	30.9	29.3	28.6	33.8	46.3	21.5

WIND—DIRECTION AND VELOCITY (MILES PER HOUR).

[December, 1893.

Day.	1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid.		Max.	Direction.
1	S.	11	S.	10	SE.	10	SE.	8	SE.	10	S.	8	S.	9	S.	9	S.	11	S.	6	S.	6	17	S.
2	N.	31	N.	34	N.	34	N.	28	N.	28	N.	19	N.	19	N.	25	N.	22	N.	16	N.	20	52	NW.
3	SE.	7	SE.	8	S.	11	SE.	12	SE.	7	SE.	4	*NW.*	3	N.	5	N.	5	N.	6	N.	4	26	N.
4	NW.	26	NW.	33	NW.	38	NW.	31	N.	17	N.	17	NW.	19	*NW.*	11	N.	16	N.	6	S.	11	41	NW.
5	N.	15	NE.	17	NE.	13	N.	9	NE.	7	SE.	5	NW.	10	NW.	5	N.	7	N.	6	N.	7	22	NW.
6	SE.	5	S.	5	SE.	5	S.	5	S.	3	S.	2	S.	2	N.	3	*NW.*	4	*N.*	5	NE.	5	13	N.
7	N.	12	N.	11	*E.*	5	*SE.*	5	S.	6	S.	5	SE.	6	E.	5	E.	4	N.	4	N.	5	22	NE.
8	NE.	11	NE.	12	NE.	8	NE.	10	NE.	14	NE.	4	NE.	2	N.	4	S.	4	S.	3	N.	5	20	NW.
9	S.	6	*S.*	12	S.	17	S.	17	SE.	16	SE.	10	SE.	10	*S.*	4	*SE.*	3	N.	5	N.	8	20	S.
10	SE.	3	*E.*	4	*W.*	16	NW.	19	N.	15	*N.*	8	*NW.*	3	*N.*	2	N.	7	N.	6	N.	4	26	NW.
11	*W.*	16	NW.	22	NW.	17	NW.	15	NW.	16	NW.	8	*N.*	7	N.	5	N.	5	N.	6	S.	3	27	NW.
12	S.	5	SE.	7	SE.	7	*SE.*	5	S.	2	S.	2	S.	2	N.	3	N.	8	N.	4	SW.	3	11	SE.
13	S.	10	S.	9	E.	11	E.	14	E.	15	SE.	8	*W.*	4	E.	5	*SW.*	5	*NW.*	3	S.	8	24	E.
14	SW.	21	SW.	23	SW.	18	W.	11	SW.	12	SW.	9	S.	14	S.	19	SW.	16	SW.	16	W.	29	36	SW.
15	NW.	30	NW.	34	NW.	37	NW.	29	NW.	31	NW.	36	NW.	21	SE.	6	*SE.*	4	*NW.*	4	N.	5	49	NW.
16	*N.*	14	NE.	17	N.	14	N.	11	NE.	19	N.	15	N.	6	N.	3	N.	5	N.	6	N.	8	34	NW.
17	S.	5	S.	5	S.	5	S.	7	*SE.*	5	W.	5	N.	6	N.	9	N.	8	N.	10	N.	11	13	N.
18	SE.	5	SE.	7	E.	8	SE.	5	S.	8	SE.	11	SE.	7	E.	4	NE.	4	N.	5	N.	5	15	N.
19	SE.	4	S.	6	S.	7	S.	7	S.	8	SE.	6	SE.	3	SE.	3	N.	6	N.	8	N.	8	12	N.
20	*SE.*	4	S.	5	*S.*	7	S.	6	S.	2	*SE.*	3	*N.*	5	N.	8	N.	6	N.	7	N.	6	14	N.
21	*S.*	9	*SE.*	8	*S.*	7	SE.	6	*SE.*	4	W.	5	*NW.*	3	W.	4	N.	5	*N.*	5	*NW.*	2	11	SE.
22	*SE.*	7	S.	14	S.	14	S.	16	S.	17	SE.	11	*S.*	5	*E.*	3	*SE.*	3	*NE.*	3	*N.*	3	19	S.
23	*S.*	7	*N.*	3	*NE.*	5	*E.*	3	*S.*	7	*N.*	6	*NE.*	11	N.	15	N.	14	N.	15	*N.*	19	20	NE.
24	N.	19	N.	15	N.	12	N.	15	N.	16	N.	20	N.	22	N.	22	N.	18	N.	15	*NE.*	4	29	N.
25	*NW.*	3	*SW.*	3	SW.	15	SW.	18	*S.*	16	S.	14	*SE.*	15	*NW.*	6	NW.	2	*NE.*	2	N.	4	25	SW.
26	*E.*	6	S.	16	S.	18	*SE.*	16	SE.	10	*E.*	8	*SW.*	7	S.	4	S.	4	S.	5	NE.	1	20	S.
27	*W.*	20	W.	20	W.	12	*NW.*	15	NW.	13	*W.*	10	*N.*	9	N.	7	N.	5	*NW.*	3	*N.*	4	29	W.
28	*N.*	20	NW.	20	NW.	20	NW.	15	*N.*	16	*NW.*	15	NW.	17	*S.*	13	*SW.*	10	S.	8	S.	7	30	NW.
29	NE.	16	N.	15	N.	13	N.	12	N.	12	N.	12	N.	10	N.	9	N.	10	N.	11	N.	6	28	NE.
30	S.	7	S.	5	*SE.*	4	E.	4	S.	7	SW.	2	*SW.*	2	N.	5	N.	5	N.	7	N.	5	18	N.
31	*SE.*	5	SE.	4	S.	6	S.	6	SE.	6	W.	4	SE.	3	N.	4	N.	5	N.	8	N.	10	14	N.
Mean	S.	11.6	S.	13.0	S.	13.0	S.	12.3	S.	11.7	SE.	9.4	N.	8.5	N.	7.4	N.	7.5	N.	6.9	N.	7.3	.....	.....

MONTHLY AND ANNUAL SUMMARY.

PIKES PEAK, COLO.

PRESSURE, 17 INCHES +. [Seventy-fifth

Month.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.
1892.												
September	1.056	1.051	1.046	1.037	1.028	1.026	1.031	1.035	1.051	1.063	1.073	1.080
October	.837	.828	.824	.818	.814	.815	.818	.820	.818	.825	.830	.837
November	.652	.648	.645	.641	.638	.635	.637	.641	.647	.656	.663	.666
December	.508	.500	.494	.486	.484	.482	.486	.494	.502	.507	.512	.517
1893.												
January	.583	.576	.572	.567	.565	.556	.556	.568	.582	.588	.598	.607
February	.476	.469	.458	.456	.445	.438	.440	.442	.451	.457	.462	.467
March	.495	.483	.479	.467	.455	.455	.463	.475	.488	.498	.573	.523
April	.583	.569	.562	.549	.540	.536	.529	.530	.549	.560	.561	.572
May	.740	.729	.718	.708	.701	.695	.698	.710	.721	.724	.727	.735
June	.966	.957	.951	.945	.943	.944	.945	.950	.952	.962	.968	.975
July	1.071	1.065	1.060	1.055	1.053	1.052	1.054	1.059	1.063	1.071	1.077	1.083
August	1.052	1.046	1.040	1.032	1.027	1.025	1.022	1.022	1.026	1.036	1.044	1.050
September	.921	.915	.909	.904	.897	.895	.894	.898	.898	.911	.921	.930
October	.798	.792	.784	.778	.770	.767	.769	.774	.779	.794	.809	.814
November	.629	.621	.612	.608	.605	.597	.597	.599	.605	.626	.640	.645
December	.619	.609	.599	.589	.585	.578	.574	.584	.595	.602	.613	.629
Year	.744	.736	.729	.722	.716	.712	.712	.718	.726	.736	.744	.752

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

1892.												
November	1.011	1.011	1.011	1.016	1.012	1.012	1.017	1.020	1.030	1.033	1.041	1.040
December	.978	.971	.967	9.06	.966	.963	.958	.965	.968	.974	.978	.982
1893.												
January	.995	.991	.988	.992	.992	.985	.984	.985	.994	1.002	1.005	1.006
February	.936	.937	.937	.935	.932	.929	.932	.935	.945	.952	.956	.955
March	.913	.913	.914	.910	.905	.903	.906	.913	.915	.915	.910	.904
April	.920	.922	.921	.916	.917	.920	.924	.934	.940	.936	.928	.920
May	.995	.991	.988	.986	.986	.989	.995	.999	1.008	.996	.998	.980
June	1.044	1.044	1.043	1.043	1.046	1.050	1.057	1.063	1.068	1.068	1.059	1.052
July	1.126	1.129	1.126	1.124	1.120	1.123	1.129	1.137	1.144	1.145	1.137	1.033
August	1.147	1.145	1.140	1.136	1.135	1.135	1.138	1.144	1.148	1.149	1.149	1.148
September	1.052	1.054	1.054	1.053	1.051	1.054	1.060	1.071	1.077	1.079	1.078	1.071
October	1.044	1.046	1.052	1.056	1.056	1.058	1.061	1.068	1.073	1.076	1.074	1.066
November	.996	.995	.992	.992	.992	.991	.996	1.002	1.007	1.010	1.012	1.009
December	1.023	1.017	1.015	1.013	1.011	1.007	1.004	1.006	1.013	1.015	1.020	1.025
Year	1.016	1.015	1.014	1.013	1.012	1.012	1.016	1.021	1.027	1.029	1.026	1.022

MONTHLY AND ANNUAL SUMMARY.

PIKES PEAK, COLO.

Meridian Time.] PRESSURE, 17 INCHES +.

1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	Month.
															1892.
1.081	1.076	1.070	1.063	1.057	1.054	1.050	1.045	1.052	1.057	1.060	1.060	1.054	1.100	1.004	.... Sept.
.837	.833	.825	.823	.825	.822	.820	.821	.823	.824	.824	.823	.824	.880	.768	..... Oct.
.666	.653	.650	.647	.655	.656	.659	.668	.667	.669	.665	.660	.654	.745	.558	.....Nov.
.513	.505	.496	.493	.498	.494	.501	.507	.510	.509	.508	.504	.500	.565	.431	..... Dec.
															1893.
.604	.592	.587	.587	.589	.588	.585	.590	.591	.591	.588	.583	.583	.643	.515	..... Jan.
.473	.472	.466	.467	.467	.470	.468	.470	.476	.481	.480	.477	.464	.455	.382	..... Feb.
.525	.527	.526	.524	.525	.524	.526	.532	.525	.524	.522	.514	.504	.591	.405	.....Mar.
.579	.581	.581	.586	.587	.590	.595	.596	.597	.599	.597	.591	.572	.651	.492	..... Apr.
.746	.750	.747	.747	.745	.746	.748	.753	.754	.754	.756	.755	.734	.812	.662	..... May
.980	.981	.986	.983	.982	.980	972	.967	.968	.970	.974	.978	.966	1.006	.919	.....June
1.087	1.089	1.086	1.084	1.080	1.075	1.070	1.066	1.070	1.074	1.076	1.077	1.071	1.102	1.037	.....July
1.054	1.057	1.057	1.054	1.050	1.045	1.043	1.038	1.041	1.044	1.050	1.051	1.042	1.075	1.009	.... Aug.
.939	.941	.941	.937	.931	.926	.923	.920	.917	.917	.918	.913	.917	.966	.864	.... Sept.
.821	.825	.823	.818	.817	.817	.816	.818	.816	.814	.809	.806	.801	.867	.734	..... Oct.
.644	.636	.637	.637	.639	.637	.638	.637	.643	.643	.637	.633	.627	.703	.558	.....Nov.
.630	.619	.616	.616	.619	.623	.624	.625	.629	.636	.632	.627	.611	.697	.535	..... Dec.
.757	.756	.754	.753	.753	.752	.751	.751	.752	.754	.753	.750	.741	.806	.676	.....Year

COLORADO SPRINGS, COLO.

PRESSURE, 23 INCHES +.

															1892.
1.033	1.005	.988	.981	.984	.986	.985	1.007	1.009	1.014	1.020	1.020	1.012	1.122	.904	.....Nov.
.969	.953	.938	.932	.937	.944	.955	.966	.971	.976	.979	.979	.964	1.055	.878	..... Dec.
															1893.
.994	.968	.952	.944	.942	.944	.956	.971	.978	.982	.985	.986	.980	1.084	.880	.....Jan.
.947	.932	.916	.899	.893	.890	.902	.916	.926	.930	.930	.935	.929	1.053	.804	..... Feb.
.894	.882	.865	.855	.846	.850	.861	.873	.889	.903	.912	.912	.890	1.009	.796	.....Mar.
.905	.883	.873	.860	.849	.842	.850	.860	.882	.903	.914	.917	.900	1.007	.801	.....Apr.
.968	.953	.939	.927	.913	.902	.905	.918	.941	.958	.982	.989	.966	1.068	.866	..... May
1.039	1.027	1.010	.999	.977	.963	.965	.975	.992	1.010	1.036	1.046	1.030	1.105	.942	.....June
1.120	1.104	1.090	1.084	1.075	1.064	1.063	1.069	1.080	1.095	1.115	1.125	1.110	1.172	1.043	.....July
1.138	1.125	1.116	1.108	1.096	1.092	1.095	1.097	1.112	1.125	1.140	1.147	1.130	1.192	1.075	.... Aug.
1.058	1.035	1.022	1.006	.985	.976	.980	.987	.997	1.013	1.025	1.031	1.040	1.118	.953	.... Sept.
1.059	1.033	1.017	1.005	.995	.994	1.006	1.019	1.030	1.035	1.040	1.045	1.040	1.129	.945	..... Oct.
1.032	.980	.965	.951	.948	.955	.967	.984	.992	.995	1.001	1.004	.990	1.082	.901	.....Nov.
1.019	1.002	.989	.981	.982	.987	1.001	1.012	1.020	1.024	1.022	1.022	1.010	1.083	.924	..... Dec.
1.014	.994	.980	.968	.958	.955	.962	.973	.987	.998	1.008	1.013	1.001	1.092	.911	.....Year

MONTHLY AND ANNUAL SUMMARY—Continued.

PIKES PEAK, COLO. (TEMPERATURE). [Seventy-fifth

Month.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.
1892.												
September	32.8	32.4	32.0	31.7	31.8	31.5	31.2	31.0	32.0	33.2	34.5	36.1
October	19.8	19.8	19.7	19.4	18.8	18.4	18.4	18.9	19.5	20.3	21.4	22.4
November	9.1	9.1	9.2	9.0	8.6	8.5	8.4	8.6	9.2	10.0	10.9	11.6
December	1.3	1.1	1.0	1.0	.8	.9	1.1	1.2	1.3	1.5	2.3	2.5
1893.												
January	6.6	6.4	6.2	6.1	6.1	6.2	5.8	5.8	5.7	6.2	7.4	7.9
February	.7	.4	.1	.2	.0	—.2	—.2	—.5	—.4	.2	.7	1.2
March	3.2	3.3	3.2	3.4	3.5	3.5	3.8	3.5	3.8	4.9	5.8	6.5
April	9.8	9.5	9.0	8.6	8.1	7.7	7.2	7.1	7.7	8.2	9.2	10.6
May	18.5	18.2	17.8	17.6	17.2	16.9	16.6	17.0	17.5	18.4	19.7	21.0
June	32.0	31.5	31.1	30.9	30.5	30.2	30.5	31.3	32.5	33.3	34.9	36.1
July	36.8	36.1	35.7	35.6	35.4	35.3	35.5	36.2	37.1	38.0	39.2	40.6
August	34.1	33.6	33.4	33.2	33.0	32.8	32.4	32.7	33.4	34.5	35.5	36.6
September	29.4	28.9	28.5	28.3	27.9	27.8	27.5	27.5	28.2	29.1	30.8	32.0
October	20.2	19.7	19.5	19.2	18.7	18.5	18.5	18.5	19.2	19.4	20.4	21.5
November	10.2	10.0	9.5	9.5	9.4	9.4	9.5	9.1	9.1	9.5	10.1	10.9
December	6.8	6.8	6.5	6.7	6.4	6.1	5.8	5.7	5.5	5.8	6.1	6.5
Year	17.4	17.0	16.7	16.6	16.4	16.2	16.1	16.2	16.6	17.3	18.3	19.3

COLORADO SPRINGS, COLO., (TEMPERATURE).

1892.												
November	34.0	33.4	32.5	32.1	31.5	31.5	31.5	31.5	31.6	35.4	39.4	44.0
December	22.4	22.4	22.1	21.5	21.0	20.5	20.0	19.6	19.2	21.2	25.0	28.3
1893.												
January	29.5	29.5	30.3	29.4	29.5	29.1	29.1	29.2	28.6	30.7	35.5	39.6
February	23.5	22.6	22.4	22.1	22.1	22.6	21.9	21.4	21.1	23.2	27.9	30.8
March	31.2	30.4	29.3	28.5	28.1	27.4	26.9	26.5	27.8	32.6	36.8	39.8
April	40.3	38.8	37.4	35.8	35.2	34.1	33.0	33.6	36.9	40.7	43.3	45.9
May	46.9	45.7	44.5	43.5	42.2	41.6	41.1	43.5	47.7	51.0	53.5	56.1
June	60.5	58.6	56.2	53.8	53.7	52.2	51.9	54.8	60.6	65.4	68.7	71.3
July	65.0	62.6	61.4	60.1	58.8	57.8	57.5	59.2	64.0	68.3	71.4	73.9
August	59.4	58.2	57.1	55.8	55.8	55.2	54.4	55.9	59.2	63.8	67.2	69.0
September	54.8	53.6	52.3	51.9	51.2	50.1	50.0	50.3	54.0	60.2	64.7	66.8
October	42.5	41.1	40.7	40.1	39.5	38.6	37.8	38.2	39.9	45.4	51.0	54.8
November	29.7	29.0	28.6	28.2	28.9	28.8	29.1	29.7	30.0	34.2	38.6	43.0
December	27.6	27.5	27.5	27.3	27.6	27.9	29.1	29.1	28.8	30.1	34.6	38.8
Year	42.6	41.5	40.6	39.7	39.4	38.8	38.5	39.3	41.6	45.5	49.4	52.5

MONTHLY AND ANNUAL SUMMARY—Continued.

Meridian Time.] PIKES PEAK, COLO. (TEMPERATURE).

1h p. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	Month.
															1892.
37.3	38.4	39.8	40.7	40.7	39.7	38.0	36.4	35.2	34.3	33.8	33.5	34.9	43.2	29.5	.....Sept.
23.4	24.2	24.6	24.5	24.2	23.2	22.0	21.4	20.6	20.4	20.0	19.5	21.0	26.2	13.5	..... Oct.
12.0	12.3	12.9	13.1	12.9	12.2	11.3	11.0	10.7	10.3	9.8	9.4	10.4	16.0	4.6	.....Nov.
2.8	3.4	3.1	3.2	2.9	2.3	1.5	1.1	1.1	1.1	1.1	.9	1.7	5.9	3.6	..... Dec.
															1893.
8.5	8.9	8.9	8.9	9.0	8.4	7.9	7.4	7.0	6.6	6.6	6.7	7.1	10.9	2.2	..... Jan.
2.5	3.2	3.4	3.3	3.3	3.0	2.4	1.5	1.0	.6	.4	.3	1.1	5.0	—4.1	.... Feb.
7.6	8.9	9.3	9.2	9.3	8.5	7.6	6.4	5.5	4.8	4.1	4.0	5.6	10.5	.1	.....Mar.
12.1	13.4	14.2	14.8	14.7	14.5	14.0	13.3	11.8	11.0	10.4	9.9	10.7	16.7	5.5	.....Apr.
22.4	24.0	24.6	25.1	25.6	25.0	24.4	23.2	21.9	20.7	19.9	19.6	20.5	27.4	14.4	..... May
37.6	39.2	39.7	40.0	40.7	39.9	39.0	38.0	36.2	34.9	33.7	33.2	34.9	42.8	28.1	.....June
41.7	43.1	43.2	43.3	42.9	42.6	41.1	40.7	39.5	38.5	37.9	37.2	38.9	46.0	33.1	.....July
37.8	38.8	39.2	38.9	38.5	37.6	37.0	36.2	35.2	34.8	34.4	34.2	35.3	41.1	30.8	.....Aug.
33.5	34.8	36.0	36.6	36.5	35.9	34.9	33.4	32.0	30.9	30.0	29.6	31.2	38.5	28.2	.....Sept.
22.7	24.0	24.8	25.6	25.3	25.0	23.9	22.2	21.4	20.9	20.6	20.5	21.3	27.0	15.5	..... Oct.
11.5	12.2	12.9	13.1	13.0	12.7	11.6	10.9	10.4	9.9	9.9	9.7	10.6	14.8	6.0	.....Nov.
6.9	7.9	8.0	8.0	8.3	7.8	7.4	7.2	6.8	7.0	6.9	6.8	6.8	11.0	2.1	..... Dec.
20.4	21.5	22.0	22.2	22.3	21.7	20.9	20.0	19.1	18.4	17.9	17.6	18.7	24.3	13.3	Year.

COLORADO SPRINGS, COLO. (TEMPERATURE).

															1892.
47.1	48.1	49.2	49.8	48.7	46.4	41.5	38.7	36.5	34.4	34.3	33.8	38.2	54.9	26.2	.....Nov.
30.7	31.6	32.3	32.4	31.1	29.7	27.3	25.3	23.9	23.1	23.2	22.5	24.8	36.6	14.3	..... Dec.
															1893.
42.0	43.4	44.4	45.2	45.2	44.0	39.7	36.4	33.5	32.6	31.2	29.8	34.9	47.5	22.3	..... Jan.
33.1	34.9	36.0	37.0	37.7	37.3	35.3	32.8	30.1	28.1	26.5	24.0	28.1	40.1	17.7	.....Feb.
42.1	43.9	45.4	46.5	46.7	45.8	44.9	42.5	39.4	37.9	35.8	34.0	36.3	49.9	23.0	.....Mar.
48 3	49.9	51.2	52.1	52.3	52.4	51.9	50.1	47.3	45.1	43.2	41.1	43.3	55.0	30.4	.....Apr.
57.9	59.4	61.2	61.9	62.0	62.1	61.3	59.5	56.5	54.1	51.7	49.6	52.3	64.4	38.8	..... May
73.6	74.7	75.6	76.5	76.9	77.0	76.1	74.2	71.4	68.2	65.8	63.7	65.9	79.3	48.9	.....June
76.5	77.9	78.9	77.7	77.5	77.3	76.0	74.3	72.4	70.2	68.1	66.3	68.9	81.6	55.3	.....July
70.6	71.9	72.5	72.9	72.0	71.0	69.9	68.7	66.1	63.6	61.9	60.7	63.9	75.5	52.7	.....Aug.
68.6	69.9	70.9	71.5	72.0	71.6	70.2	66.7	63.9	60.9	59.0	55.8	60.9	73.9	46.9	.....Sept.
57.1	58.9	60.3	61.1	60.8	60.7	57.9	53.5	50.5	48.0	45.9	44.3	48.7	62.7	34.0	..... Oct.
45.2	46.5	47.0	47.2	46.3	44.7	41.4	38.4	35.7	33.3	31.0	30.0	36.0	49.3	22.6	.....Nov.
42.0	42.8	43.6	44.2	44.0	42.1	38.4	35.4	33.0	30.9	29.3	28.6	33.8	46.3	21.5	..... Dec.
54.8	56.2	57.2	57.8	57.8	57.2	55.2	52.7	50.0	47.7	45.8	44.0	47.8	60.5	34.4	.....Year

MONTHLY AND ANNUAL SUMMARY—Continued.

Wind—Most frequent direction and average hourly velocity.

PIKES PEAK, COLO.

[Seventy-fifth

Month.	0–1h a. m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Noon.	
1892.																								
Sept.	SW.	19.7	SW.	18.6	W.	19.5	W.	21.6	W.	21.9	W.	21.6	SW.	20.8	W.	21.1	W.	20.0	SW.	17.7	SW.	16.6	SW.	14.9
Oct.	SW.	22.9	SW.	23.1	SW.	23.1	SW.	23.0	SW.	23.5	SW.	22.3	W.	22.4	W.	23.0	W.	22.9	{NE. W.	22.7	{SW. W.	21.0	SW.	20.4
Nov.	W.	36.2	W.	36.8	W.	35.8	W.	35.5	W.	36.3	NW.	36.8	NW.	36.3	NW.	34.4	W.	36.0	{W. NW.	36.5	W.	37.7	W.	39.2
Dec.	W.	34.2	W.	33.1	W.	33.0	W.	32.9	W.	34.6	W.	34.5	W.	33.0	W.	32.1	W.	30.9	W.	32.7	W.	33.0	W.	31.2
1893.																								
Jan.	NE.	31.0	NE.	30.4	NE.	30.0	{NE. NW.	29.2	NE.	31.2	NE.	32.5	NE.	33.6	NE.	31.8	NE.	31.1	NE.	31.0	NE.	29.7	NE.	28.7
Feb.	W.	32.2	W.	30.2	W.	32.5	SW.	31.4	W.	30.3	*SW.	31.2	{W. SW.	32.0	W.	30.8	SW.	30.5	SW.	34.0	SW.	34.0	{W. SW.	33.6
Mar.	{W. NW.	37.6	NW.	38.1	W.	37.4	NW.	38.5	NW.	39.7	NW.	40.1	{W. NW.	40.3	NW.	38.0	NW.	38.1	W.	36.6	NW.	34.1	NW.	30.7
Apr.	SW.	33.4	SW.	35.1	SW.	33.7	SW.	32.6	W.	31.0	SW.	30.7	SW.	32.3	W.	34.8	W.	36.2	{W. SW.	35.2	W.	34.3	SW.	32.5
May.	SW.	29.5	SW.	29.6	SW.	29.7	W.	31.1	W.	29.7	W.	29.5	W.	30.0	W.	27.6	W.	30.4	W.	30.2	W.	28.8	W.	25.5
June.	SW.	21.5	W.	23.1	W.	24.9	{W. SW.	24.0	W.	24.1	W.	23.0	W.	22.4	SW.	20.4	W.	20.1	W.	17.6	W.	14.9	SW.	12.5
July.	W.	15.9	W.	16.7	W.	17.3	W.	15.6	W.	16.2	W.	15.9	W.	15.7	W.	15.9	W.	13.9	W.	13.0	W.	11.1	W.	10.9
Aug.	SW.	13.6	W.	14.5	W.	15.7	W.	15.5	W.	16.7	W.	18.2	W.	18.7	W.	18.1	W.	18.7	W.	15.8	NE.	13.1	NE.	12.0
Sept.	SW.	24.0	SW.	25.5	SW.	27.3	SW.	27.0	SW.	26.6	SW.	28.2	SW.	29.6	SW.	29.4	SW.	27.1	SW.	24.1	SW.	22.3	SW.	19.9
Oct.	W.	32.8	SW.	32.7	W.	33.0	W.	33.1	W.	32.9	W.	32.4	W.	31.3	W.	31.0	W.	29.7	W.	27.5	W.	26.9	W.	27.2
Nov.	SW.	29.6	SW.	28.8	SW.	29.9	SW.	29.7	W.	28.8	W.	27.1	W.	26.9	W.	26.2	W.	26.1	W.	25.3	W.	23.4	NE.	21.7
Dec.	W.	33.2	W.	34.0	W.	33.8	W.	34.9	W.	34.8	W.	33.6	W.	33.4	N.	31.1	N.	31.6	{N. W.	31.6	N.	32.9	N.	33.3
Year.	SW.	27.9	W.	28.2	W.	28.8	W.	28.6	W.	28.5	W.	28.5	W.	28.8	W.	27.9	W.	27.8	W.	26.9	W.	25.5	W.	24.0

* Other directions.

COLORADO SPRINGS, COLO.

1893.																								
Jan.	N.	12.6	N.	12.1	N.	10.6	N.	11.0	N.	10.4	N.	9.5	N.	9.7	N.	8.9	N.	10.0	N.	9.3	N.	10.4	N.	11.0
Feb.	N.	13.7	N.	12.9	N.	12.2	N.	11.6	N.	11.8	N.	11.6	N.	11.3	N.	10.9	N.	10.4	N.	9.3	N.	8.4	N.	9.3
Mar.	N.	10.2	N.	9.7	N.	10.3	N.	8.9	N.	9.0	N.	9.5	N.	10.1	N.	9.2	N.	9.4	N.	9.9	N.	11.2	SE.	13.4
Apr.	N.	11.6	N.	10.7	N.	11.1	N.	10.9	N.	11.0	N.	10.8	N.	9.5	N.	9.8	N.	10.0	N.	10.2	NE.	10.2	SE.	12.7
May.	N.	8.8	N.	8.6	N.	9.3	N.	9.9	N.	9.1	N.	8.7	N.	9.8	N.	9.6	N.	9.3	E.	10.3	SE.	10.4	SE.	11.6
June.	N.	8.2	N.	7.0	N.	7.7	N.	8.4	N.	9.4	N.	9.2	N.	9.5	N.	8.4	N.	7.3	N.	6.7	N.	6.9	{SE. S.	8.3
July.	N.	8.1	N.	7.5	N.	7.8	N.	7.9	N.	7.4	N.	7.4	N.	7.2	N.	6.2	N.	5.2	N.	6.0	N.	7.3	S.	8.3
Aug.	N.	5.0	N.	5.4	N.	5.5	N.	6.3	N.	6.8	N.	7.6	N.	7.5	N.	6.8	N.	6.1	N.	7.1	N.	6.7	S.	7.5
Sept.	N.	7.5	N.	7.3	N.	7.7	N.	8.1	N.	8.3	N.	8.2	N.	7.7	N.	7.3	N.	7.0	N.	6.1	N.	6.2	S.	7.9
Oct.	N.	7.9	N.	7.9	N.	8.5	N.	9.1	N.	8.7	N.	8.9	N.	9.1	N.	8.7	N.	8.4	N.	7.8	N.	7.0	S.	7.5
Nov.	N.	11.5	N.	11.4	N.	11.7	N.	11.1	N.	11.0	N.	10.9	N.	11.8	N.	10.1	N.	10.8	N.	10.7	N.	10.1	N.	10.3
Dec.	N.	6.9	N.	6.8	N.	8.3	N.	8.2	N.	7.7	N.	8.5	N.	9.3	N.	9.8	N.	10.4	N.	9.5	N.	8.8	N.	8.5
Year.	N.	9.3	N.	8.9	N.	9.2	N.	9.3	N.	9.2	N.	9.2	N.	9.4	N.	8.8	N.	8.7	N.	8.6	N.	8.6	S.	9.7

MONTHLY AND ANNUAL SUMMARY—Continued.

Wind—Most frequent direction and average hourly velocity.

PIKES PEAK, COLO.

Meridian Time.

Noon–1h p.m.		1–2h		2–3h		3–4h		4–5h		5–6h		6–7h		7–8h		8–9h		9–10h		10–11h		11–Mid-night.		Month.
																								1892.
SW.	11.9	SW.	11.5	SW.	12.0	SW.	13.3	SW.	13.1	SW.	13.8	SW.	15.7	SW.	16.6	SW.	18.0	SW.	19.0	SW.	19.2	SW.	19.6	... Sept.
N.	19.7	SW.	18.9	NE. SW.	20.4	SW.	20.6	SW.	19.5	SW.	19.4	SW.	20.5	SW.	19.5	SW.	19.4	SW.	20.4	SW.	20.0	SW.	21.8	... Oct.
W.	39.1	NW.	36.7	W.	38.6	W.	38.9	W.	37.1	W.	35.5	W.	35.5	W.	36.7	W.	39.9	W.	39.5	W.	39.5	W.	37.7	... Nov.
W.	32.8	W.	31.0	W.	31.2	W.	33.0	W.	33.4	W.	35.5	W.	36.1	W.	33.8	W.	35.0	W.	33.9	W.	35.2	W.	34.1	... Dec.
																								1893.
NE.	28.6	NE.	27.8	NE.	29.0	NE.	28.6	NE.	29.1	NE.	32.4	NE.	32.9	NE.	31.7	NE.	30.8	NE.	30.8	NE.	29.9	NE.	30.5	... Jan.
W.	36.0	W.	34.8	W.	35.9	SW.	34.3	SW.	33.0	SW.	32.4	SW.	31.2	W.	31.0	W.	32.7	W.	33.8	W.	33.5	W.	34.4	... Feb.
W. SW.	28.9	W.	26.9	W.	25.8	W.	24.4	W.	24.0	W.	26.4	W.	29.8	W.	28.9	W.	31.4	W.	33.9	NW.	34.7	W.	36.9	... Mar.
SW.	29.2	SW.	29.2	SW.	28.6	SW.	28.7	SW.	27.0	SW.	27.3	W. SW.	29.0	SW.	28.8	SW.	26.6	SW.	29.3	W.	32.4	SW.	33.9	... Apr.
W.	22.0	W.	20.3	W.	21.8	W.	22.1	SW.	21.1	SW.	21.7	W.	22.2	W.	21.6	W.	21.6	W.	23.2	W.	26.4	SW.	28.4	... May
SW.	13.1	S.	13.1	SW.	13.0	SW.	14.8	SW.	16.5	SW.	16.1	SW.	15.8	S. W.	17.0	W. S.	17.6	SW.	20.1	SW.	21.4	SW.	20.6	... June
W.	10.3	E.	9.9	W.	11.0	W.	12.0	SW.	13.6	SW.	12.9	E.	13.3	E. SW.	13.9	SW.	12.0	SW. NE.	12.9	*S.	12.5	NE.	14.1	... July
NE.	10.7	NE.	9.1	W. NE.	9.7	SW.	11.5	SW.	11.5	SW.	11.9	W. NE.	12.8	SW.	14.0	NE. SW.	14.2	NW.	14.5	W.	13.4	SW.	12.9	... Aug.
SW.	18.2	SW.	16.3	SW.	15.8	SW.	16.3	SW.	17.9	SW.	20.6	SW.	19.8	SW.	19.8	SW.	20.1	SW.	22.2	SW.	22.2	SW.	22.9	... Sept.
SW.	25.5	SW.	23.8	W. SW.	22.8	SW.	21.1	SW.	22.5	W.	23.1	W. SW.	25.0	W. SW.	27.1	SW.	28.8	SW.	30.4	W. SW	33.9	SW.	35.1	... Oct.
SW. N.	22.4	N.	22.8	SW.	22.1	SW.	22.0	SW.	23.1	SW.	24.7	SW.	26.0	SW.	27.6	SW.	28.6	SW.	28.3	SW.	28.2	W.	29.3	... Nov.
W.	31.3	W.	31.5	W.	30.8	W.	31.7	W.	32.1	SW.	33.1	W.	32.6	W.	32.0	W.	32.8	W.	32.3	W.	31.4	W.	31.4	... Dec.
W.	23.0	W.	22.1	W.	22.2	SW.	22.3	SW.	22.6	SW.	23.6	W.	24.2	S.	24.4	SW.	24.8	SW.	26.0	W.	26.7	SW.	27.5	...Year.

* Other directions.

COLORADO SPRINGS, COLO.

																								1893.
S.	12.8	SE.	13.5	SE.	14.0	S.	14.6	S.	13.2	S.	12.4	*NW.	11.1	N.	8.7	N.	9.2	N.	10.9	N.	10.8	N.	12.1	... Jan.
SE.	12.5	SE.	12.0	S.	12.5	S.	13.5	S.	14.5	SE.	14.6	N. SE.	14.1	SE.	12.4	N. SE.	10.6	N.	11.0	N.	12.0	N.	13.3	... Feb.
SE.	16.0	SE. S.	16.5	SE.	17.3	NW.	18.5	NW.	17.7	N. NW.	17.7	NW.	16.5	NW.	15.2	NW.	13.6	N.	11.5	NE.	11.7	N.	10.2	... Mar.
SE.	15.2	SE.	15.8	SE.	16.8	SE. NW.	17.9	S.	18.5	S.	18.5	S.	16.7	NW	15.7	NW.	13.1	N.	11.8	N.	11.7	N.	11.8	... Apr.
S.	13.9	S.	14.4	SE.	15.6	S.	15.6	S.	16.4	S.	15.3	S.	16.5	NW.	14.3	NW.	12.8	N.	11.2	N.	9.6	N.	9.0	... May
S.	9.2	SE.	11.2	SE. S.	12.4	S.	12.7	SE.	13.0	S.	12.0	S.	13.6	S.	13.8	S.	13.1	S.	8.5	N.	9.2	N.	9.5	... June
S.	9.3	S.	10.0	S.	10.7	S.	12.7	SE.	14.4	SE. S.	11.6	SE. S.	12.7	SE.	11.2	SE. S.	8.6	S.	7.1	N.	7.3	N.	7.0	... July
S.	8.4	S.	9.5	S.	10.3	S.	10.0	S.	10.7	N. S.	10.5	S.	9.2	S.	9.3	S.	7.1	N.	7.1	N.	6.0	N.	5.6	... Aug.
S.	9.4	S.	11.1	S.	12.6	S.	13.7	S.	13.5	S.	13.6	S.	12.7	S.	10.2	S.	8.1	S.	6.6	N.	7.1	N.	7.3	... Sept.
S.	9.0	S.	9.8	S.	11.7	S.	12.8	S.	13.5	S.	11.9	S.	11.1	S.	8.7	N.	6.7	N.	7.1	N.	8.8	N.	8.9	... Oct.
N.	11.6	S.	13.2	S.	13.4	S.	13.9	S.	13.3	S.	12.2	N.	9.9	N.	9.6	N.	9.0	N.	9.2	N.	9.6	N.	11.3	... Nov.
N.	9.7	S.	11.6	S.	13.0	S.	13.0	S.	12.3	S.	11.7	SE.	9.4	N.	8.5	N.	7.4	N.	7.5	N.	6.9	N.	7.3	... Dec.
S.	11.4	S.	12.4	S.	13.4	S.	14.1	S.	14.2	S.	13.5	S.	12.8	N.	11.5	N.	9.9	N.	9.1	N.	9.2	N.	9.4	...Year.

* Other directions.

SUMMARY OF WIND, MOVEMENT, AND DIRECTION.

PIKES PEAK, COLO.

Months.	Wind—number of miles and duration from—																	
	North.		Northeast.		East.		Southeast.		South.		Southwest.		West.		Northwest.		Calm.	
	Miles.	Time.	Miles.	Time.	Miles.	Time.	Miles.	Time.	Miles.	Time.	Miles.	Time.	Miles.	Time.	Miles.	Time.	Miles.	Time.
1892.		h. m.		h. m.		h. m.		h. m.		h. m.		h. m.		h. m.		h. m.		h. m.
September*	78	6 20	864	64 10	139	15 40	404	31 50	333	24 55	3,442	218 35	3,557	133 55	786	56 35	0	0 00
October	829	65 55	2,552	138 25	362	48 25	353	27 55	1,539	57 30	5,255	197 10	3,560	138 45	1,298	69 55	0	0 00
November	2,979	97 30	2,259	90 10	203	27 00	50	7 05	207	9 40	2,909	96 45	11,868	244 50	6,202	155 00	1	2 00
December	1,945	80 35	3,142	135 30	14	1 00	172	10 10	448	26 35	2,992	118 25	12,213	256 55	3,896	114 50	0	0 00
1893.																		
January	2,014	84 30	6,748	282 00	0	0 15	2	0 10	187	8 45	3,047	87 15	6,371	131 15	4,355	149 50	0	0 00
February	1,440	64 45	2,216	101 05	34	4 10	18	4 15	89	3 35	6,662	199 20	8,480	196 55	3,055	97 55	0	0 00
March	2,771	101 00	418	22 55	3	0 25	0	0 00	349	14 00	5,866	171 00	9,114	245 20	6,314	189 20	0	0 00
April	1,219	47 55	114	6 20	88	5 00	208	9 35	1,595	54 25	8,121	276 15	8,164	227 35	3,041	92 55	0	0 00
May	253	23 55	1,198	75 05	1,207	56 05	263	19 40	1,076	55 30	5,461	197 45	8,545	252 50	1,847	61 10	0	0 00
June	766	50 55	284	29 50	282	29 00	569	46 10	1,357	88 50	5,055	224 05	4,189	193 20	922	57 50	0	0 00
July	659	64 00	1,240	125 25	963	83 40	160	19 40	875	61 25	1,727	119 15	3,488	188 25	1,015	82 10	0	0 00
August	852	87 20	1,625	122 45	756	66 00	95	10 40	416	41 30	1,031	118 55	3,713	190 45	1,354	106 05	0	0 00
September	357	25 30	470	35 45	895	60 20	370	38 45	2,376	118 10	7,331	292 30	4,083	120 55	429	32 00	1	1 05
October	1,703	88 35	975	48 40	101	7 45	21	3 05	708	42 15	5,855	246 10	8,598	228 05	3,415	119 25	0	0 00
November	1,625	92 10	1,798	100 35	49	7 10	18	3 30	620	36 15	6,783	216 55	5,653	175 20	2,316	88 05	0	0 00
December	3,532	147 10	2,789	109 55	200	11 00	66	6 05	1,050	32 30	4,990	138 35	8,996	221 40	2,593	77 05	0	0 00
Yearly percentage	8	10	9	12	2	4	1	2	5	6	28	28	35	27	13	13	0	0 00

* For 22 days.

COLORADO SPRINGS, COLO.

1893.																		
January	2,784	316 35	628	59 50	292	47 50	515	74 10	697	72 25	525	39 00	939	48 10	1,951	86 00	0	0 00
February	3,005	256 15	387	39 20	154	24 05	858	96 55	1,067	107 30	172	23 45	1,010	48 55	1,372	75 15	0	0 00
March	2,255	234 05	992	87 10	163	31 30	766	91 25	963	85 35	481	41 25	432	41 05	3,348	130 10	1	1 35
April	2,589	213 25	551	57 30	217	33 40	1,214	100 30	1,423	105 25	1,012	60 40	590	42 45	1,780	102 15	3	3 50
May	2,520	225 20	531	47 10	342	51 00	1,192	120 20	1,585	128 35	454	36 00	666	51 35	1,388	72 40	1	1 20
June	2,284	240 00	385	48 00	358	50 15	1,268	126 50	1,448	139 40	428	38 35	354	31 00	537	45 40	0	0 00
July	2,006	257 20	295	44 25	438	61 30	1,074	117 10	1,485	154 05	339	39 30	291	29 50	547	40 10	0	0 00
August	2,394	299 40	347	47 35	250	42 20	696	97 50	1,375	169 05	114	23 45	127	23 55	338	38 45	1	1 05
September	2,415	285 25	275	40 20	364	61 20	655	99 45	1,983	179 20	338	36 35	286	26 25	144	20 50	0	0 00
October	3,933	327 00	407	51 10	214	34 55	528	68 10	1,124	130 20	245	33 55	283	31 10	977	64 45	2	2 35
November	3,776	341 30	475	54 25	322	35 55	582	73 25	816	85 30	87	14 00	248	25 55	1,790	89 20	0	0 00
December	2,956	340 05	443	56 10	192	34 00	426	66 45	690	88 40	305	32 30	470	40 00	1,363	84 40	1	1 10
Yearly percentage	35	38	6	7	4	6	11	13	16	17	5	5	6	5	17	10	0	0 00

SNOWFALL OF THE UNITED STATES.

[The figures in the tables give the actual depth of snowfall for each month of the season, 1892-'93 and 1893-'94, as determined by ground measurements where the snow appeared to be of average depth.]

SNOWFALL, 1892-'93 AND 1893-'94 (IN INCHES AND TENTHS), AT WEATHER BUREAU STATIONS.

Stations.	Season.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	Total.
		Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*
Abilene, Tex	1892-93	.....	.....	.....	0.2	0.2	0.5	.....	.....	.....	.....	0.9
Do	1893-94	.....	.....	T.	.....	0.3	1.0	.....	.....	.....	.....	1.3
Albany, N.Y	1892-93	.....	.....	T.	1.0	8.1	40.7	3.0	4.8	.....	.....	57.6
Do	1893-94	.....	T.	0.2	12.4	14.9	24.7	1.0	2.5	.....	.....	55.7
Alpena, Mich	1892-93	.....	1.0	5.4	6.3	19.7	13.4	10.4	3.7	.....	.....	59.9
Do	1893-94	.....	1.2	3.3	28.7	10.4	8.0	6.1	7.7	5.0	.....	70.4
Amarillo, Tex	1892-93	.....	.....	0.3	11.2	1.0	17.3	.....	2.0	.....	.....	31.8
Do	1893-94	.....	.....	0.4	2.5	T	11.5	T.	.....	.....	.....	14.4
Atlanta, Ga	1892-93	.....	.....	.....	1.0	9.6	.....	T.	.....	.....	.....	10.6
Do	1893-94	.....	.....	.....	T.	.....	6.0	.....	.....	.....	.....	6.0
Atlantic City, N.J	1892-93	.....	.....	T.	2.5	15.1	6.6	9.8	.....	.....	.....	34.0
Do	1893-94	.....	.....	.....	0.8	T.	7.5	0.4	T.	.....	.....	8.7
Augusta, Ga	1892-93	.....	.....	.....	1.1	3.6	.....	.....	.....	.....	.....	4.7
Do	1893-94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Baker City, Oreg	1892-93	.....	1.0	0.9	4.2	8.7	16.8	10.1	8.2	.....	.....	49.9
Do	1893-94	.....	2.4	12.1	4.2	27.3	11.1	9.4	.....	T.	.....	66.5
Baltimore, Md	1892-93	.....	.....	2.2	4.3	8.1	11.7	4.0	.....	T.	.....	30.3
Do	1893-94	.....	.....	0.2	3.1	1.0	11.7	T.	5.0	.....	.....	21.0
Bismarck, N. Dak	1892-93	.....	T.	6.3	1.8	8.4	2.1	16.9	3.7	.....	.....	39.2
Do	1893-94	T.	.....	1.9	14.5	2.2	0.4	21.3	2.0	.....	.....	42.3
Block Island, R.I	1892-93	.....	.....	.....	1.0	9.9	11.2	7.1	1.0	.....	.....	30.2
Do	1893-94	.....	.....	.....	1.7	5.6	9.8	1.9	0.3	.....	.....	19.3
Boston, Mass	1892-93	.....	.....	3.0	2.0	14.6	35.3	4.5	7.9	.....	.....	67.3
Do	1893-94	.....	.....	0.4	18.5	15.0	21.6	T.	8.5	.....	.....	64.0
Buffalo, N.Y	1892-93	.....	T.	10.5	12.9	14.1	21.6	7.9	7.3	.....	.....	74.3
Do	1893-94	.....	T.	4.5	30.8	11.9	27.3	1.6	13.8	.....	.....	89.9
Buford, Fort, N. Dak	1892-93	.....	0.1	10.5	15.6	23.5	3.2	2.2	3.6	2.0	.....	60.7
Do	1893-94	.....	2.5	(*)	23.0	10.9	1.8	.....	4.5	2.0	.....	44.7
Cairo, Ill	1892-93	.....	.....	6.1	0.2	5.9	7.9	1.7	0.6	.....	.....	22.4
Do	1893-94	.....	.....	.....	T.	3.4	5.5	2.2	.....	.....	.....	11.1
Cape Henry, Va	1892-93	.....	.....	T.	12.0	17.0	.....	2.0	.....	.....	.....	31.0
Do	1893-94	.....	.....	T.	.....	.....	T.	.....	.....	.....	.....	T.
Carson City, Nev	1892-93	.....	0.2	15.5	6.4	4.3	16.6	10.6	7.2	T.	.....	60.8
Do	1893-94	.....	.....	1.8	0.6	5.7	25.6	5.5	1.5	.....	0.3	41.0
Canby, Fort, Wash	1892-93	.....	.....	T.	4.5	11.6	1.8	.....	T.	.....	.....	17.9
Do	1893-94	.....	T.	.....	0.1	2.7	12.1	T.	.....	.....	.....	14.9
Charlotte, N. C	1892-93	.....	.....	.....	4.0	13.5	1.5	T.	.....	.....	.....	18.0
Do	1893-94	.....	.....	.....	T.	.....	7.2	T.	.....	.....	.....	7.2
Charleston, S. C	1892-93	.....	.....	.....	T.	1.9	.....	.....	.....	.....	.....	1.9
Do	1893-94	.....	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Chattanooga, Tenn	1892-93	.....	.....	T.	T.	15.8	T.	0.3	.....	.....	.....	16.1
Do	1893-94	.....	.....	.....	0.1	T.	11.5	T.	.....	.....	.....	11.6
Cheyenne, Wyo	1892-93	.....	10.0	2.7	8.9	0.8	8.8	7.8	13.4	3.5	.....	55.9
Do	1893-94	.....	2.0	2.8	5.2	2.0	7.2	9.1	8.8	T.	.....	37.1
Chicago, Ill	1892-93	.....	.....	0.8	2.1	15.2	11.8	1.0	0.6	.....	.....	31.5
Do	1893-94	.....	.....	7.5	12.1	6.5	12.9	5.4	T.	T.	.....	44.4
Cincinnati, Ohio	1892-93	.....	.....	2.0	1.8	16.3	7.1	1.7	0.9	.....	.....	29.8
Do	1893-94	.....	.....	T.	1.4	4.5	12.0	1.0	T.	T.	.....	18.9
Cleveland, Ohio	1892-93	.....	T.	5.0	5.3	12.8	13.2	0.7	3.5	.....	.....	40.5
Do	1893-94	.....	0.2	6.3	17.9	2.5	14.3	6.1	0.1	.....	.....	47.4
Colorado Springs, Colo	1892-93	.....	(†)	.....	.....	0.1	2.1	0.8	6.0	4.2	.....	.....
Do	1893-94	.....	0.3	1.8	0.3	0.5	8.3	4.3	1.7	.....	.....	17.2
Columbia, Mo	1892-93	.....	.....	1.0	2.5	2.8	1.7	1.3	T.	.....	.....	9.3
Do	1893-94	.....	.....	.....	1.5	2.9	9.9	T.	.....	.....	.....	14.3

* Williston after November, 1893.

† Record began January 1, 1893.

SNOWFALL, 1892–'93 AND 1893–'94 (IN INCHES AND TENTHS), AT WEATHER BUREAU STATIONS—Continued.

Stations.	Season.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	Total.
		Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches*
Columbia, S. C	1892–93	.....	.....	.....	2.0	5.0	.....	T.	.....	.....	.....	7.0
Do	1893–94	.....	.....	.....	1.0	.....	11.3	.....	.....	.....	.....	12.3
Columbus, Ohio	1892–93	.....	T.	6.3	4.9	14.7	10.1	0.8	1.3	.....	.....	38.1
Do	1893–94	.....	T.	0.1	4.0	1.2	13.3	1.7	T.	.....	.....	20.3
Concordia, Kans	1892–93	.....	.....	1.0	12.0	0.8	1.9	3.5	.....	.....	.....	19.2
Do	1893–94	.....	T.	2.0	1.5	1.6	11.7	T.	.....	.....	.....	16.8
Corpus Christi, Tex	1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Davenport, Iowa	1892–93	.....	.....	7.6	14.3	7.7	9.5	0.3	1.9	.....	.....	41.3
Do	1893–94	.....	.....	5.5	8.0	5.1	8.7	1.5	.....	.....	.....	28.8
Denver, Colo	1892–93	.....	0.5	2.5	17.8	1.0	13.6	3.2	9.9	8.9	.....	57.4
Do	1893–94	.....	5.8	6.6	4.5	2.4	11.9	10.0	10.7	.....	.....	51.9
Detroit, Mich	1892–93	.....	.....	6.4	8.0	23.1	18.0	1.5	2.7	.....	.....	59.7
Do	1893–94	.....	T.	2.7	16.6	1.4	14.6	4.2	6.0	.....	.....	45.5
Des Moines, Iowa	1892–93	.....	.....	T.	12.5	7.4	6.2	1.7	3.2	.....	.....	31.0
Do	1893–94	.....	.....	8.1	11.9	7.5	13.0	3.0	T.	.....	.....	43.5
Dodge City, Kans	1892–93	.....	T.	0.5	13.0	0.2	2.8	.....	.....	.....	.....	16.5
Do	1893–94	.....	.....	0.5	1.9	0.5	10.7	2.7	.....	.....	.....	16.3
Dubuque, Iowa	1892–93	.....	.....	6.5	11.0	18.0	7.5	7.0	1.5	.....	.....	51.5
Do	1893–94	.....	.....	9.3	7.6	7.0	11.5	6.5	T.	T.	.....	41.9
Duluth, Minn	1892–93	.....	.....	13.0	1.2	10.6	16.0	16.4	18.0	T.	.....	75.2
Do	1893–94	.....	T.	6.4	20.5	17.0	2.7	21.6	12.0	.....	.....	80.2
Eastport, Me	1892–93	.....	.....	0.7	2.0	5.9	21.2	1.8	9.3	.....	.....	40.9
Do	1893–94	.....	.....	T.	21.5	13.6	10.1	4.1	12.0	.....	.....	61.3
El Paso, Tex	1892–93	.....	.....	.....	2.0	.....	3.6	T.	.....	.....	.....	5.6
Do	1893–94	.....	.....	.....	.....	.....	T.	T.	.....	.....	.....	T.
Erie, Pa	1892–93	.....	.....	7.0	10.5	19.8	17.1	3.2	7.5	.....	.....	65.1
Do	1893–94	.....	1.5	5.7	16.0	5.8	21.4	4.3	5.4	.....	.....	60.1
Fort Smith, Ark	1892–93	.....	.....	.....	0.1	10.5	0.2	.....	.....	.....	.....	10.8
Do	1893–94	.....	.....	.....	0.2	4.6	4.3	0.2	.....	.....	.....	9.3
Fresno, Cal	1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Grand Haven, Mich	1892–93	.....	.....	1.5	10.8	36.5	13.4	3.9	0.6	.....	.....	66.7
Do	1893–94	.....	T.	10.7	18.9	11.3	6.7	7.4	5.0	0.2	.....	60.2
Galveston, Tex	1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Green Bay, Wis	1892–93	.....	.....	9.1	10.8	17.5	15.9	12.5	4.2	.....	.....	70.0
Do	1893–94	.....	T.	11.4	26.5	10.3	14.0	0.6	9.4	T.	.....	72.2
Hannibal, Mo	1892–93	.....	.....	T.	1.0	3.0	11.0	0.8	T.	.....	.....	15.8
Do	1893–94	.....	.....	T.	3.3	1.0	12.0	T.	.....	.....	.....	16.3
Harrisburg, Pa	1892–93	.....	T.	7.8	3.0	7.0	30.3	4.0	.....	.....	.....	52.1
Do	1893–94	.....	.....	0.8	3.1	2.5	23.5	T.	18.0	.....	.....	47.9
Hatteras, N. C	1892–93	.....	.....	.....	.....	T.	.....	.....	.....	.....	.....	T.
Do	1993–94	.....	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Havre, Mont	1892–93	.....	2.0	9.2	13.6	12.6	3.4	4.5	9.8	.....	.....	55.1
Do	1893–94	.....	5.1	6.0	3.4	9.6	1.4	5.8	1.2	T.	.....	32.5
Helena, Mont	1892–93	.....	0.3	16.1	4.8	17.2	5.9	1.0	3.4	0.2	.....	48.9
Do	1893–94	.....	1.7	12.5	0.3	15.0	4.7	7.6	4.9	T.	.....	46.7
Huron, S. Dak	1992–93	.....	.....	5.4	3.5	6.8	4.2	13.0	1.6	.....	.....	34.5
Do	1893–94	.....	T.	7.1	10.1	7.1	2.4	4.6	0.6	.....	.....	31.9
Idaho Falls, Idaho	1892–93	.....	2.0	3.5	17.0	9.8	20.6	16.2	3.2	T.	.....	72.3
Do	1893–94	.....	T.	5.0	4.1	17.8	11.8	3.2	3.0	T.	.....	44.9
Indianapolis, Ind	1892–93	.....	.....	3.5	4.0	14.3	10.1	1.2	2.9	.....	.....	36.0
Do	1893–94	.....	.....	T.	1.6	1.1	4.8	2.2	.....	T.	.....	9.7
Jacksonville, Fla	1892–93	.....	.....	.....	T.	.....	.....	.....	.....	.....	.....	T.
Do	1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Jupiter, Fla	1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Kansas City, Mo	1892–93	.....	.....	3.0	9.6	2.3	10.4	8.0	T.	.....	.....	33.3
Do	1893–94	.....	.....	2.5	3.2	1.7	17.1	.....	.....	.....	.....	24.5
Kearney, Nebr	1892–93	.....	.....	1.4	5.6	1.6	11.2	6.4	0.7	.....	.....	26.9
Do	1893–94	.....	1.5	0.4	2.5	8.1	9.9	1.4	.....	.....	.....	23.8
Keeler, Cal	1892–93	.....	.....	.....	T.	.....	0.2	6.6	.....	.....	.....	6.8
Do	1893–94	.....	.....	1.0	7.0	.....	T.	.....	.....	.....	.....	8.0
Keokuk, Iowa	1892–93	.....	.....	3.5	1.7	5.8	14.4	0.7	2.4	.....	.....	28.5
Do	1893–94	.....	.....	4.7	7.8	2.8	8.6	0.1	T.	.....	.....	24.0
Kittyhawk, N. C	1892–93	.....	.....	.....	4.0	9.0	.....	4.9	.....	.....	.....	17.0
Do	1893–94	.....	.....	T.	.....	0.2	0.5	T.	.....	.....	.....	0.7
Key West, Fla	1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0

SNOWFALL, 1892–'93 AND 1893–'94 (IN INCHES AND TENTHS), AT WEATHER BUREAU STATIONS—Continued.

Stations.	Season.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	Total.
		Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*
Knoxville, Tenn	1892–93	.....	.....	.....	0	11.1	.....	T.	.....	.....	.....	11.1
Do	1893–94	.....	.....	.....	T.	0.8	8.2	T.	.....	T.	.....	9.0
La Crosse, Wis	1892–93	.....	.....	1.1	10.0	14.6	9.2	10.8	10.8	0.1	.....	56.6
Do	1893–94	.....	T.	7.9	8.8	10.6	9.2	1.3	1.1	.....	.....	39.0
Lander, Wyo	1892–93	.....	0.4	7.9	16.0	T.	15.5	13.4	21.4	6.5	.....	81.1
Do	1893–94	.....	2.2	5.7	6.6	4.9	9.2	32.9	2.6	.....	.....	64.1
Leavenworth, Kans	1892–93	.....	.....	T.	11.6	T.	15.0	8.6	.....	.....	.....	35.2
Do	*1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lexington, Ky	1892–93	.....	.....	1.4	6.7	11.3	5.1	6.2	T.	.....	.....	30.7
Do	1893–94	.....	.....	.....	1.5	4.5	14.7	2.8	0.4	6.0	.....	29.9
Little Rock, Ark	1892–93	.....	.....	2.5	0.5	13.0	0.6	.....	.....	.....	.....	16.6
Do	1893–94	.....	.....	.....	T.	2.0	3.5	2.0	.....	.....	.....	7.5
Louisville, Ky	1892–93	.....	.....	0.2	0.2	6.4	4.8	5.2	T.	.....	.....	16.8
Do	1893–94	.....	.....	.....	0.7	1.2	10.2	0.5	.....	T.	.....	12.6
Lynchburg, Va	1892–93	.....	.....	0.5	0.7	8.4	4.4	1.3	.....	.....	.....	15.3
Do	1893–94	.....	.....	0.2	0.8	1.4	12.5	T.	.....	.....	.....	14.9
Manchester, N. H	1892–93	.....	.....	10.3	2.4	11.4	44.2	4.7	5.5	.....	.....	78.5
Do	*1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Manistee, Mich	1892–93	.....	T.	6.0	12.5	25.2	15.6	5.5	0.8	.....	.....	65.6
Do	*1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marquette, Mich	1892–93	.....	T.	22.3	14.1	22.7	19.1	28.4	18.8	11.6	.....	137.0
Do	1893–94	.....	4.8	31.3	58.5	22.9	20.3	26.5	11.8	4.2	.....	180.3
Memphis, Tenn	1892–93	.....	.....	.....	1.8	7.6	2.5	0.2	.....	.....	.....	12.1
Do	1893–94	.....	.....	.....	0.5	2.5	5.0	1.0	.....	.....	.....	9.0
Meridian, Miss	1892–93	.....	.....	.....	T.	2.1	.....	.....	.....	.....	.....	2.1
Do	1893–94	.....	.....	.....	.....	.....	T.	T.	.....	.....	.....	T.
Miles City, Mont	1892–93	.....	0.6	6.3	5.6	5.5	5.7	7.1	3.8	.....	.....	34.6
Do	1893–94	T.	1.8	7.6	3.9	9.8	0.8	36.2	0.4	.....	.....	60.5
Milwaukee, Wis	1892–93	.....	T.	3.2	5.6	10.7	9.6	6.8	1.0	0.5	.....	37.4
Do	1893–94	.....	.....	7.4	10.1	5.5	10.6	3.5	3.4	T.	.....	40.5
Minneapolis, Minn	†1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do	1893–94	.....	.....	8.7	12.4	12.0	0.3	11.2	5.8	.....	.....	50.4
Mobile, Ala	1892–93	.....	.....	.....	T.	1.0	.....	.....	.....	.....	.....	1.0
Do	1893–94	.....	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Montgomery, Ala	1892–93	.....	.....	.....	0.1	2.2	.....	T.	.....	.....	.....	2.3
Do	1893–94	.....	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Montrose, Colo	1892–93	.....	.....	1.0	6.6	16.0	22.9	6.0	4.7	0.1	.....	57.3
Do	1893–94	3.5	T.	(*)	.....	.....	.....	.....	.....	.....	.....	.....
Moorhead, Minn	1892–93	.....	.....	5.5	5.5	18.4	14.7	13.0	14.0	.....	.....	71.1
Do	1893–94	T.	1.1	11.2	16.1	2.1	3.8	15.5	5.7	.....	.....	55.5
Nashville, Tenn	1892–93	.....	.....	T.	1.6	3.3	2.5	0.5	.....	.....	.....	7.9
Do	1893–94	.....	.....	.....	0.3	0.2	10.4	1.5	.....	T.	.....	12.4
Nantucket, Mass	1892–93	.....	.....	T.	4.0	13.2	13.0	3.3	T.	.....	.....	33.5
Do	1893–94	.....	.....	T.	T.	2.3	17.5	T.	T.	.....	.....	19.8
Narragansett Pier, R. I.	1892–93	.....	.....	2.5	3.0	12.0	21.5	7.5	3.5	.....	.....	50.0
Do	1893–94	.....	.....	.....	15.0	3.5	27.0	3.5	1.0	.....	.....	50.0
New Haven, Conn	1892–93	.....	.....	10.5	4.4	18.1	32.9	3.5	4.8	.....	.....	74.2
Do	1893–94	.....	.....	T.	13.6	16.0	27.9	1.6	6.7	.....	.....	65.8
New Brunswick, N. J	1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do	1893–94	.....	.....	T.	4.0	6.2	14.9	T.	2.7	.....	.....	27.8
New London, Conn	1892–93	.....	.....	6.0	3.3	15.3	19.7	4.8	2.2	.....	.....	51.3
Do	1893–94	.....	.....	T.	13.6	18.1	21.2	1.7	2.4	.....	.....	57.0
New Orleans, La	1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893–94	.....	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
New York, N. Y.	1892–93	.....	.....	12.3	1.4	11.7	32.0	6.6	3.0	.....	.....	67.0
Do	1893–94	.....	.....	.....	8.0	10.2	37.9	T.	T.	.....	.....	56.1
Norfolk, Va	1892–93	.....	.....	.....	18.6	13.7	.....	1.0	.....	.....	.....	33.3
Do	1893–94	.....	.....	0.2	T.	T.	7.1	0.1	T.	.....	.....	7.4
Northfield, Vt	1892–93	.....	.....	1.4	4.5	11.0	30.8	6.0	9.3	.....	.....	63.0
Do	1893–94	.....	0.1	11.2	22.5	24.1	22.5	4.5	1.0	.....	.....	85.9
North Platte, Nebr	1892–93	.....	.....	0.4	4.8	0.3	7.2	4.3	0.2	.....	.....	17.2
Do	1893–94	.....	.....	1.4	2.5	5.4	4.0	13.1	.....	.....	.....	26.4
Oklahoma City, Okla	1892–93	.....	.....	1.5	2.7	6.7	3.2	.....	.....	.....	.....	14.1
Do	1893–94	.....	.....	.....	.....	5.1	2.7	0.1	.....	.....	.....	7.9
Olympia, Wash	1892–93	.....	.....	.....	51.0	13.7	21.5	.....	.....	.....	.....	86.2
Do	1893–94	.....	.....	T.	T.	7.4	11.9	2.2	.....	.....	.....	21.5
Omaha, Nebr	1892–93	.....	.....	T.	16.4	2.8	7.9	7.6	T.	.....	.....	34.7
Do	1893–94	.....	0.2	1.7	5.7	3.5	10.0	T.	T.	.....	.....	21.1
Oswego, N. Y	1892–93	.....	.....	15.7	17.4	41.8	11.5	0.5	3.0	.....	.....	89.9
Do	1893–94	.....	4.0	5.5	24.0	18.8	30.4	2.8	1.0	.....	.....	86.5

*Station closed. † No record.

SNOWFALL, 1892-'93 AND 1893-'94 (IN INCHES AND TENTHS), AT WEATHER BUREAU STATIONS—Continued.

Stations.	Season.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	Total.
		Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches*
Palestine, Tex	1892-93	.....	.....	.....	.....	1.0	.....	.....	.....	.....	.....	1.0
Do	1893-94	.....	.....	.....	.....	.....	1.8	.....	.....	.....	.....	1.8
Parkersburg, W. Va	1892-93	.....	.....	2.3	8.9	23.6	3.8	9.1	.....	.....	.....	47.7
Do	1893-94	.....	T.	T.	7.3	6.8	25.7	1.3	.....	.....	.....	41.1
Pensacola, Fla	1892-93	.....	.....	.....	T.	.....	.....	.....	.....	.....	.....	T.
Do	1893-94	.....	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Philadelphia, Pa	1892-93	.....	.....	0.8	3.8	20.0	9.4	2.8	.....	.....	.....	36.8
Do	1893-94	.....	.....	T.	3.5	4.1	11.5	T.	1.2	.....	.....	20.3
Pierre, S. Dak	1892-93	.....	.....	2.0	2.0	9.1	4.2	11.6	1.0	.....	.....	29.9
Do	1893-94	.....	T.	2.5	5.4	5.4	0.5	11.7	T.	.....	.....	25.5
Pikes Peak, Colo.*	1892-93	0.1	59.0	55.8	201.3	58.3	43.3	179.0	124.1	22.4	7.7	751.0
Do	1893-94	6.0	34.8	48.2	28.2	8.7	21.1	26.4	46.9	94.2	4.8	319.3
Pittsburg, Pa	1892-93	.....	T.	2.0	3.5	15.2	18.3	2.8	0.5	T.	.....	42.3
Do	1893-94	.....	T.	0.6	4.0	1.8	20.5	3.1	T.	.....	.....	30.0
Port Angeles, Wash	1892-93	.....	.....	T.	12.4	33.2	41.9	.....	T.	.....	.....	77.5
Do	1893-94	.....	T.	1.4	1.8	7.5	12.8	0.4	.....	.....	.....	23.9
Port Huron, Mich	1892-93	.....	T.	9.2	4.3	20.7	15.2	3.7	3.5	.....	.....	56.6
Do	1893-94	.....	T.	1.5	14.4	3.2	15.4	1.5	6.1	.....	.....	42.1
Portland, Me	1892-93	.....	.....	9.6	7.2	11.9	50.9	3.0	4.6	.....	.....	87.2
Do	1893-94	.....	.....	0.2	30.3	18.9	25.2	9.1	15.9	.....	.....	99.6
Portland, Oreg	1892-93	.....	.....	.....	29.0	11.8	20.0	0.1	.....	.....	.....	60.9
Do	1893-94	.....	.....	T.	.....	4.1	10.0	2.4	.....	.....	.....	16.5
Pueblo, Colo	1892-93	.....	.....	5.7	4.5	1.4	1.8	0.1	0.3	.....	.....	13.8
Do	1893-94	.....	.....	0.3	2.7	1.3	20.1	1.1	.....	.....	.....	25.5
Raleigh, N. C	1892-93	.....	.....	.....	9.5	20.0	T.	2.1	.....	.....	.....	31.6
Do	1893-94	.....	.....	T.	1.0	T.	5.0	T.	.....	.....	.....	6.0
Rapid City, S. Dak	1892-93	.....	.....	0.5	2.6	3.1	6.6	7.6	1.7	0.2	.....	22.3
Do	1893-94	.....	T.	3.1	3.4	5.7	2.3	10.5	2.5	.....	.....	27.5
Red Bluff, Cal	1892-93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893-94	.....	.....	.....	.....	2.0	.....	.....	.....	.....	.....	2.0
Rochester, N. Y	1892-93	.....	T.	14.0	19.1	15.9	29.8	8.1	9.6	T.	.....	96.5
Do	1893-94	.....	0.5	6.1	27.6	20.0	29.5	5.4	13.3	.....	.....	102.4
Roseburg, Oreg	1892-93	.....	.....	.....	0.7	6.4	10.6	.....	.....	.....	.....	17.7
Do	1893-94	.....	.....	.....	.....	4.6	5.8	5.7	.....	.....	.....	16.1
Red Wing, Minn	1892-93	.....	.....	2.1	5.6	9.6	28.1	9.0	11.9	T.	.....	66.3
Do	†1893-94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sacramento, Cal	1892-93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893-94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
St. Louis, Mo	1892-93	.....	.....	.....	0.5	2.4	8.7	2.6	T.	.....	.....	14.2
Do	1893-94	.....	.....	T.	0.6	2.2	5.6	0.3	.....	.....	.....	8.7
St. Paul, Minn	1892-93	.....	.....	2.2	4.0	10.2	20.0	9.2	15.0	.....	.....	60.6
Do	1893-94	.....	.....	6.5	11.9	9.1	1.0	9.0	3.2	.....	.....	40.7
St. Vincent, Minn	1892-93	.....	T.	1.5	T.	15.0	10.0	4.0	19.0	.....	.....	49.5
Do	1893-94	1.0	T.	5.2	3.0	6.8	6.6	8.4	7.0	.....	.....	38.0
Salt Lake City, Utah	1892-93	.....	T.	10.0	19.5	9.5	18.8	13.7	8.0	.....	.....	79.5
Do	1893-94	0.2	.....	.....	10.5	14.5	14.3	10.2	5.7	.....	.....	55.4
San Antonio, Tex	1892-93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893-94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
San Diego, Cal	1892-93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893-94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Sandusky, Ohio	1892-93	.....	.....	3.0	4.0	29.8	22.1	T.	T.	.....	.....	58.9
Do	1893-94	.....	.....	0.7	12.3	1.4	17.5	6.1	T.	.....	.....	38.0
San Francisco, Cal	1892-93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893-94	.....	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Santa Fe, N. Mex	1892-93	.....	0.5	.....	6.3	1.6	2.4	1.4	0.1	0.6	.....	12.9
Do	1893-94	.....	.....	2.3	4.0	2.9	13.3	0.7	5.0	.....	.....	28.2
Sault de Ste. Marie, Mich.	1892-93	.....	T.	7.7	33.7	14.2	11.6	7.8	5.1	T.	.....	80.1
Do	1893-94	.....	T.	30.6	26.4	22.4	5.2	7.4	3.8	0.1	.....	95.9
Savannah, Ga	1892-93	.....	.....	.....	.....	1.0	.....	.....	.....	.....	.....	1.0
Do	1893-94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Seattle, Wash	‡1892-93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do	1893-94	.....	T.	3.0	2.3	1.2	10.0	2.4	.....	.....	.....	18.9
Shreveport, La	1892-93	.....	.....	.....	T.	.....	.....	.....	.....	.....	.....	T.
Do	1893-94	.....	.....	.....	.....	.....	3.2	.....	.....	.....	.....	3.2
Sioux City, Iowa	1892-93	.....	.....	T.	3.3	5.0	10.2	3.6	T.	.....	.....	22.1
Do	1893-94	.....	.....	3.5	5.2	4.4	3.9	0.2	T.	.....	.....	17.2

* Snow also fell on Pikes Peak in July, 1893, to the depth of 3 inches, and in August to the depth of 9.1 inches, making a total of 763.1 inches, or 63 feet 7 inches for the year from September, 1892, to August, 1893, inclusive. There also fell 15.3 inches in July, 1894, and 8.2 inches in August, 1894, making a total of 342.8 inches, or 28 feet 7 inches for the year from September, 1893, to August, 1894, inclusive.

† Station closed.

‡ No record.

SNOWFALL, 1892–'93 AND 1893–'94 (IN INCHES AND TENTHS), AT WEATHER BUREAU STATIONS—Continued.

Stations.	Season.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	Total.
		Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*
Southport, N. C.	1892–93	.....	.....	.....	3.0	2.0	.....	0.1	.....	.....	.....	5.1
Do	1893–94	.....	.....	.....	.....	.....	4.8	.....	.....	.....	.....	4.8
Spokane, Wash.	1892–93	.....	.....	T.	19.9	6.7	37.8	2.9	T.	.....	.....	67.3
Do	1893–94	1.0	T.	16.0	3.6	15.3	8.8	6.1	T.	T.	.....	50.8
Springfield, Ill	1892–93	.....	.....	T.	0.4	4.4	6.0	1.2	T.	.....	.....	12.0
Do	1893–94	.....	.....	0.3	3.9	8.6	12.1	0.6	T.	.....	.....	25.5
Springfield, Mo.	1892–93	.....	.....	T.	4.5	3.0	3.0	4.0	.....	.....	.....	14.5
Do	1893–94	.....	.....	T.	2.0	7.0	10.5	T.	.....	.....	.....	19.5
Stanton, Fort, N. Mex.	1892–93	.....	0.2	2.5	12.7	4.0	14.7	1.0	.....	.....	.....	35.1
Do	1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tampa, Fla.	1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Tatoosh Island, Wash.	1892–93	.....	.....	T.	.....	5.7	30.1	T.	T.	.....	.....	35.8
Do	1893–94	.....	.....	T.	0.3	3.0	2.1	T.	.....	.....	.....	5.4
Titusville, Fla.	1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Toledo, Ohio	1892–93	.....	.....	5.8	1.3	10.9	10.4	0.8	4.6	.....	.....	33.8
Do	1893–94	.....	T.	2.1	16.1	2.6	10.2	4.4	0.1	.....	.....	35.5
Topeka, Kans.	1892–93	.....	.....	.....	12.9	0.5	14.6	6.0	.....	.....	.....	34.0
Do	1893–94	.....	.....	T.	2.0	0.5	7.0	.....	.....	.....	.....	9.5
Tucson, Ariz.	1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893–94	.....	.....	.....	.....	.....	3.7	1.0	.....	.....	.....	4.7
Valentine, Nebr.	1892–93	.....	.....	1.1	4.0	(†)	(†)	14.8	13.5	.....	.....	.....
Do	1893–94	.....	.....	5.1	7.4	10.9	5.3	8.2	T.	.....	.....	36.9
Vicksburg, Miss.	1892–93	.....	.....	.....	T.	3.4	.....	.....	.....	.....	.....	3.4
Do	1893–94	.....	.....	.....	.....	.....	T.	T.	.....	.....	.....	T.
Vineyard Haven, Mass.	‡1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do	1893–94	.....	.....	.....	5.0	9.5	15.8	T.	2.0	.....	.....	32.3
Walla Walla, Wash.	1892–93	.....	.....	.....	12.3	7.7	8.3	0.3	1.0	.....	.....	29.6
Do	1893–94	.....	.....	3.5	T.	22.5	4.6	T.	.....	.....	.....	30.6
Washington, D. C.	1892–93	.....	T.	3.5	5.5	11.3	8.7	2.0	.....	.....	.....	31.0
Do	1893–94	.....	.....	T.	3.3	2.0	18.1	T.	2.0	.....	.....	25.4
Wichita, Kans.	1892–93	.....	.....	0.3	13.8	1.6	2.9	0.1	.....	.....	.....	18.7
Do	1893–94	.....	T.	T.	T.	0.1	10.9	T.	.....	.....	.....	11.0
Wilmington, N. C.	1892–93	.....	.....	.....	2.0	T.	.....	.....	.....	.....	.....	2.0
Do	1893–94	.....	.....	.....	.....	.....	3.2	.....	.....	.....	.....	3.2
Winnemucca, Nev.	1892–93	.....	T.	1.3	3.5	19.2	9.1	12.9	6.4	T.	.....	52.4
Do	1893–94	.....	.....	1.3	2.7	5.2	11.3	2.1	4.6	0.5	0.7	28.4
Woods Holl, Mass.	1892–93	.....	.....	.....	5.1	8.0	31.5	18.5	4.0	.....	.....	67.1
Do	1893–94	.....	.....	.....	8.6	19.0	28.3	3.0	12.2	.....	.....	71.1
Yankton, S. Dak.	1892–93	.....	.....	2.2	1.8	5.1	8.7	6.5	0.5	.....	.....	24.8
Do	1893–94	.....	T.	6.3	8.1	5.6	(‡)	(‡)	(‡)	.....	.....	.....
Yuma, Ariz.	1892–93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
Do	1893–94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0

* Station closed. † No observations. ‡ No record.

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SUNSHINE, 1893.

[The data given in the tables, except for New York, Boston and Philadelphia (from August 17th at the latter), were obtained from the records of the Jordan-Weather Bureau photographic sunshine recorder described and figured on page 30. Report of the Chief of the Weather Bureau, 1891–'92. No corrections have been applied to the values for the hours immediately after sunrise and before sunset to compensate for the failure of the instrument to register sunshine at these hours.]

BOSTON, MASS.

[Lat. 42° 21′.]

Month.	Sunshine recorded during hours ending (local time)—															Total.	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	.....	0.6	5.3	8.4	12.1	15.5	16.4	16.7	21.7	17.7	5.6	.....	.....	.....	120.0	44
February	.....	.....	.....	6.2	14.2	14.7	17.2	20.6	20.1	20.9	18.7	13.8	8.7	1.4	.....	.....	156.5	53
March	.....	.....	3.8	14.8	19.2	22.5	23.3	22.7	23.0	23.0	21.7	18.7	14.7	6.9	0.1	.....	214.4	58
April	.....	0.2	12.3	15.3	15.1	17.7	20.2	20.9	20.3	20.1	17.7	17.2	15.8	12.4	1.6	.....	206.8	52
May	.....	2.3	11.4	15.9	17.7	20.2	19.7	18.8	20.1	19.3	18.9	16.3	15.2	14.4	4.6	.....	214.8	47
June	.....	0.5	7.5	12.3	12.8	15.6	18.6	20.7	20.9	24.0	24.7	21.0	16.2	11.1	3.9	.....	209.8	46
July	.....	0.3	12.2	21.9	27.9	28.4	27.7	27.9	26.3	26.7	21.7	20.0	20.1	11.4	5.7	.....	278.2	60
August	.....	.....	9.2	15.1	17.5	20.5	22.0	22.1	24.2	24.3	24.0	22.5	18.7	10.7	1.4	.....	232.2	54
September	.....	.....	7.7	16.9	21.4	24.4	23.8	24.7	22.7	20.0	19.2	18.1	15.7	8.4	.....	.....	223.0	60
October	.....	.....	1.4	14.2	21.3	22.5	23.5	25.2	25.6	24.8	24.5	21.1	11.1	0.1	.....	.....	215.4	63
November	.....	.....	.....	7.8	16.2	21.3	24.0	25.5	24.8	22.7	21.0	13.6	3.2	.....	.....	.....	180.1	61
December	.....	.....	.....	0.7	10.1	14.3	16.0	18.2	17.8	16.9	14.6	13.8	1.6	.....	.....	.....	124.0	44
Sum	.....	3.3	65.5	141.7	198.7	230.5	248.1	262.8	262.2	259.4	248.4	215.9	146.6	76.8	17.3	.....	2,375.2	.....
Percentage of possible.	.....	2	27	42	54	63	68	72	72	71	68	59	44	32	11	.....	.....	53

BUFFALO, N. Y.

[Lat. 42° 53′.]

January	.....	.....	.....	.....	1.7	5.2	13.0	12.2	9.5	8.2	7.3	5.8	0.2	.....	.....	.....	63.1	22
February	.....	.....	.....	1.5	5.0	8.0	10.1	14.5	9.5	7.2	10.9	9.4	5.5	3.5	1.0	.....	86.1	29
March	.....	.....	4.6	10.0	10.2	13.0	13.5	12.2	15.0	18.7	18.1	14.0	13.0	2.0	.....	.....	144.3	39
April	.....	2.8	10.5	10.3	14.9	16.5	14.1	17.5	14.5	17.0	18.1	16.8	12.5	7.5	0.7	.....	173.7	43
May	.....	9.5	18.9	20.5	20.2	17.5	18.3	15.8	19.2	17.5	14.0	13.9	15.0	16.8	7.4	.....	224.5	49
June	.....	12.9	17.0	19.9	20.0	21.0	20.5	17.5	19.0	22.0	22.5	23.3	20.8	16.9	6.5	.....	259.8	57
July	.....	9.6	20.0	23.0	26.0	25.3	25.9	28.5	23.5	22.8	23.4	25.0	25.1	23.0	11.5	.....	312.6	67
August	.....	4.0	21.0	20.0	22.0	22.0	22.3	21.5	28.0	25.0	25.0	24.0	23.2	25.2	4.6	.....	287.8	67
September	.....	.....	3.8	8.5	14.8	19.1	20.0	17.0	21.0	20.9	22.0	21.9	19.5	9.0	.....	.....	197.5	53
October	.....	.....	.....	9.6	20.3	20.7	22.8	17.7	15.7	19.9	18.8	17.9	15.9	0.3	.....	.....	179.6	53
November	.....	.....	.....	.....	15.0	16.0	19.0	18.0	17.0	18.0	12.0	10.0	0.4	.....	.....	.....	125.4	43
December	.....	.....	.....	.....	0.5	4.0	6.0	7.6	5.0	5.0	5.0	4.0	.....	.....	.....	.....	37.1	13
Sum	.....	38.8	95.8	123.3	170.6	188.3	205.5	200.0	196.9	202.2	197.1	186.0	151.1	104.2	31.7	.....	2,091.5	.....
Percentage of possible.	.....	26	40	37	47	52	56	55	54	55	54	51	45	44	21	.....	.....	47

CHICAGO, ILL.

[Lat. 41° 52′.]

January	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August	.....	.....	4.5	19.0	26.7	28.5	29.6	30.2	31.0	28.5	26.0	28.1	28.1	15.9	0.4	.....	296.5	69
September	.....	.....	2.2	16.7	22.7	25.8	25.7	24.8	24.9	24.4	24.5	21.9	19.7	6.7	.....	.....	240.0	64
October	.....	.....	.....	8.4	18.7	20.9	21.9	24.2	23.9	23.2	21.0	19.9	11.2	1.9	.....	.....	195.2	57
November	.....	.....	.....	1.2	8.3	14.9	21.0	18.7	19.0	19.6	16.5	11.1	2.3	.....	.....	.....	132.6	45
December	.....	.....	.....	.....	4.5	16.8	17.7	18.7	20.1	17.2	17.2	9.2	0.2	.....	.....	.....	121.6	43
Sum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Percentage of possible.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

CINCINNATI, OHIO.

[Lat. 39° 06′.]

Month.	Sunshine recorded during hours ending (local time)—															Total.	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	
January					4.8	8.5	12.5	13.5	13.7	14.3	15.5	9.8	1.2				93.8	31
February				2.0	4.5	9.0	8.9	9.8	9.9	11.0	10.5	9.8	5.1				80.5	27
March				8.5	14.4	14.5	16.5	16.6	16.7	16.0	15.4	15.0	13.5	1.0			148.1	40
April			1.0	4.8	9.0	11.0	11.0	12.0	10.0	10.0	9.0	11.0	9.0	4.0	0.2		102.0	26
May		0.7	12.8	17.0	16.0	17.0	18.0	17.0	17.0	17.5	17.0	17.0	14.0	11.5	2.0		194.5	44
June		0.5	20.0	22.0	24.0	25.0	25.0	23.0	21.0	24.0	26.0	24.0	23.0	15.0	6.5		279.0	63
July		1.8	17.5	23.0	22.5	27.0	28.0	27.0	28.0	27.0	24.0	21.0	21.0	21.0	4.2		293.0	63
August		0.3	10.0	22.5	26.0	28.0	28.0	25.5	24.0	26.8	28.0	25.0	23.0	12.2	1.7		281.0	66
September			3.4	11.0	13.0	16.0	19.0	23.0	22.0	22.0	20.0	20.0	13.5	5.5			188.4	50
October				5.8	18.0	21.0	24.0	24.0	24.0	23.0	20.5	19.0	13.9				193.2	56
November				0.5	5.5	10.0	13.0	17.0	19.0	20.0	19.0	16.0	2.8				122.8	41
December						4.0	10.0	13.0	14.0	13.0	13.0	6.0					73.0	25
Sum		3.3	64.7	117.1	157.7	191.0	213.9	221.4	219.3	224.6	217.9	193.6	140.0	70.2	14.6		2,049.3	
Percentage of possible		2	26	33	43	52	59	61	60	62	60	53	40	29	10			47

CLEVELAND, OHIO.

[Lat. 41° 30′.]

January					5.0	6.8	8.5	7.0	13.5	11.5	8.0	3.5					63.8	22
February				3.0	6.0	6.0	5.0	5.0	8.0	8.0	7.0	5.0	2.0				55.0	18
March			0.5	4.5	8.0	11.0	13.0	13.5	18.0	20.5	20.5	17.0	14.0	3.0			143.5	39
April			6.2	11.5	14.0	14.0	12.0	10.5	13.0	14.0	11.0	10.0	9.5	6.4			132.1	33
May		0.5	3.5	10.0	10.0	11.0	9.0	11.0	15.0	16.0	16.0	15.0	9.0	2.6			128.6	28
June		3.6	17.5	22.5	20.5	20.6	23.0	22.5	21.0	20.5	22.0	22.0	24.0	22.5	8.5		270.1	60
July		6.5	22.0	22.5	25.5	25.0	26.0	27.0	28.0	25.0	24.0	22.0	21.0	20.0	9.5		304.0	66
August		2.6	13.5	19.0	21.0	20.0	20.5	22.0	22.0	23.0	25.0	24.5	23.0	18.0	4.5		258.6	60
September			2.2	10.5	20.0	23.0	22.0	20.0	20.0	23.0	21.0	17.0	12.0	0.7	0.2		203.6	54
October				4.1	11.0	15.0	15.0	17.0	18.0	19.0	17.0	16.0	11.8	1.0			144.9	42
November				0.4	12.0	11.0	13.0	16.0	16.0	14.0	12.0	11.0	4.5				109.9	37
December					0.7	6.0	6.0	6.0	6.0	7.0	6.0	4.0					41.7	14
Sum		13.2	65.4	114.0	153.7	168.8	173.0	177.5	198.5	201.5	189.5	167.0	130.8	80.2	22.7		1,855.8	
Percentage of possible		9	27	33	42	46	47	49	54	55	52	46	36	34	15			42

DENVER, COLO.

[Lat. 39° 45′.]

January				0.8	23.5	28.0	30.0	30.5	30.0	29.0	25.0	22.5	4.8				224.1	74
February				7.8	19.0	24.0	26.0	25.5	24.0	23.0	20.0	19.0	12.4				200.7	67
March			5.2	24.0	26.0	26.0	27.0	29.0	28.0	23.0	23.5	21.0	19.0	10.3			262.0	71
April		0.5	16.2	22.3	25.0	25.0	25.0	24.0	25.0	24.0	21.5	20.5	20.0	15.0	0.9		264.3	67
May		0.5	17.5	22.0	21.0	21.0	25.0	24.0	23.0	25.0	23.0	19.0	21.0	20.0	7.9		269.9	60
June		5.4	26.0	27.0	28.0	27.5	26.0	25.5	24.0	24.5	24.5	23.5	21.5	13.5	3.5		300.4	67
July		1.6	25.0	26.5	26.5	30.0	29.5	30.0	26.5	23.5	20.8	20.8	18.8	16.5	2.8		296.8	66
August			11.8	24.8	27.0	26.5	27.0	28.8	24.5	22.5	21.8	17.8	14.8	9.5			254.8	60
September			10.8	28.0	29.0	30.0	28.3	28.0	27.0	26.5	26.3	25.0	23.5	13.8			296.2	79
October			0.4	19.8	26.0	26.0	26.0	24.0	24.0	25.2	26.0	26.5	23.3	1.5			248.7	72
November				1.5	21.0	25.0	24.0	25.0	25.0	25.0	23.0	20.0	6.5				196.0	65
December					10.0	17.0	21.0	23.0	22.0	25.0	27.0	18.5	0.7				164.2	56
Sum		8.0	112.9	204.5	282.0	306.0	314.8	315.3	303.0	296.2	282.4	254.1	186.3	100.1	15.1		2,980.7	
Percentage of possible		6	46	59	77	84	86	86	83	81	77	70	54	41	10			67

DETROIT, MICH.

[Lat. 42° 20′.]

January				0.5	9.5	14.5	16.0	12.5	12.0	9.5	10.5	6.0					91.0	
February				6.8	9.5	11.0	11.0	14.0	15.0	14.0	14.0	12.0	6.0				113.3	
March		0.8	6.5	17.8	17.5	18.0	18.7	16.3	19.5	18.0	17.0	15.5	11.5	1.5			179.6	06
April		0.8	7.0	7.5	11.0	10.0	12.5	12.0	12.0	15.3	12.0	9.5	10.0	6.5	0.2		126.3	48
May		6.5	12.5	17.0	20.0	19.0	19.5	19.0	17.0	15.0	14.0	16.5	13.5	14.2	3.4		207.1	38
June		18.8	21.5	22.5	21.0	23.5	25.5	25.5	27.0	25.5	26.0	25.5	23.5	20.0	13.5	1.5	320.8	41
July		12.5	13.0	21.2	24.3	24.0	26.0	27.0	24.0	24.5	23.0	23.0	23.0	20.0	8.8		294.3	64
August		7.8	16.8	21.8	23.0	22.0	23.5	23.0	24.0	22.5	23.0	25.0	22.5	15.5	1.3		271.7	63
September		0.1	6.0	13.0	17.5	20.0	19.0	21.0	20.0	19.0	20.0	18.5	15.3	3.1			192.5	51
October			2.1	11.8	16.0	16.0	18.8	20.0	17.5	18.5	14.5	14.4	10.0	0.2			159.8	47
November				2.5	9.0	11.0	11.0	11.0	12.0	13.0	12.0	11.0	1.7				94.2	32
December					4.5	9.0	10.0	10.0	11.0	11.0	10.0	8.0					73.5	26
Sum		47.3	85.4	142.4	182.8	198.0	212.5	211.3	211.0	205.8	196.0	184.9	137.0	81.0	27.2	1.5	2,124.1	
Percentage of possible		32	36	42	50	54	58	58	58	56	54	51	41	34	18	3		48

DODGE CITY, KANS.

[Lat. 37° 45′.]

Month.	Sunshine recorded during hours ending (local time)—															Total.	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	.....	4.8	24.5	23.5	24.5	24.5	26.0	26.5	26.8	24.8	10.5	.....	.....	.....	216.4	70
February	.....	.....	1.2	11.8	15.0	17.5	21.8	21.5	21.0	20.8	20.0	19.0	18.0	1.6	.....	.....	189.2	62
March	.....	.....	10.8	21.8	24.0	26.0	26.0	28.0	29.0	28.0	28.0	27.5	24.0	18.0	2.5	.....	293.6	79
April	.....	1.0	17.8	23.0	23.6	26.0	26.0	25.0	25.0	26.0	25.5	26.5	25.5	20.5	2.8	.....	294.2	74
May	.....	14.4	21.5	23.0	21.0	24.0	23.0	22.0	20.0	23.5	24.0	24.0	22.0	21.0	15.5	.....	298.9	68
June	.....	14.6	23.5	29.5	29.0	29.0	29.0	28.0	29.5	28.5	27.0	27.0	26.5	22.0	11.5	.....	355.6	80
July	1.0	19.0	26.0	28.0	27.0	27.0	28.0	24.0	26.0	27.0	29.0	23.0	22.0	19.0	10.0	.....	336.0	75
August	.....	3.8	20.7	22.5	24.0	23.5	27.0	26.0	23.2	26.0	26.0	25.0	26.5	23.5	6.8	.....	304.5	72
September	.....	.....	14.3	21.5	23.0	23.5	24.0	24.0	23.0	25.0	26.0	27.0	25.0	23.5	.....	.....	279.8	75
October	.....	.....	2.9	31.0	29.0	29.0	29.0	29.0	31.0	31.0	31.0	30.0	30.0	8.0	.....	.....	310.9	90
November	.....	.....	.....	12.0	27.0	27.0	28.0	28.0	21.0	21.0	22.0	22.0	15.0	.....	.....	.....	223.0	73
December	.....	.....	.....	4.0	24.0	25.0	26.0	26.0	25.0	24.0	22.0	20.0	5.0	.....	.....	.....	201.0	68
Sum	1.0	52.8	138.7	232.9	291.1	301.0	312.3	307.0	299.7	307.3	307.3	295.8	250.0	157.1	49.1	.....	3,303.1	.....
Percentage of possible.	4	37	56	66	80	82	86	84	82	84	84	81	71	64	34	.....	.....	74

EASTPORT, ME.

[Lat. 44° 54′.]

January	.....	.....	.....	0.6	7.5	14.5	18.5	18.0	19.0	17.5	16.5	15.5	3.7	.....	.....	.....	131.3	46
February	.....	.....	0.2	7.3	14.0	14.5	14.0	15.0	16.3	18.0	18.5	17.5	12.3	1.5	.....	.....	149.1	51
March	.....	.....	4.8	12.0	14.0	18.5	19.0	20.0	17.5	18.0	17.5	18.0	16.0	0.8	.....	.....	176.1	47
April	.....	1.4	11.0	13.0	14.0	15.0	15.0	13.5	20.0	16.0	16.0	13.0	14.0	9.0	2.4	.....	173.3	43
May	.....	5.0	13.0	15.0	16.0	17.0	17.0	16.0	15.0	15.0	14.0	13.0	14.0	10.0	3.9	.....	183.9	40
June	0.2	10.5	14.0	15.0	14.0	16.0	15.0	16.0	17.0	18.0	19.0	19.0	16.0	17.5	10.8	1.8	219.8	47
July	.....	11.0	15.0	17.5	21.5	23.0	24.0	24.0	23.0	20.0	18.0	15.0	17.5	15.0	5.3	.....	249.8	53
August	.....	1.5	10.0	12.0	10.5	13.0	13.0	15.0	16.0	17.0	18.0	19.0	18.0	11.0	5.4	.....	179.4	41
September	.....	0.6	9.0	13.5	16.0	18.5	19.0	18.0	17.0	17.0	15.5	16.0	13.5	5.8	.....	.....	174.4	46
October	.....	.....	.....	5.6	12.0	14.8	16.0	15.5	14.0	14.0	15.0	15.5	14.5	1.3	.....	.....	138.2	41
November	.....	.....	.....	0.7	11.0	18.0	19.0	19.0	15.0	18.0	19.0	16.0	6.5	.....	.....	.....	142.2	50
December	.....	.....	.....	.....	3.0	8.0	10.0	11.0	10.0	12.0	14.0	11.0	0.7	.....	.....	.....	79.7	29
Sum	0.2	30.0	77.0	112.2	153.5	190.8	199.5	201.0	199.8	200.5	201.0	188.5	146.7	66.9	27.8	1.8	1,997.2	.....
Percentage of possible.	0	20	33	34	42	52	55	55	55	55	55	52	45	28	18	3	.....	45

GALVESTON, TEX.

[Lat. 29° 18′.]

January	.....	.....	0.3	14.5	24.0	23.0	23.0	23.0	23.0	23.0	24.0	19.0	9.0	.....	.....	.....	205.8	63
February	.....	.....	1.0	11.5	14.0	12.4	11.0	8.5	12.0	13.0	12.5	12.0	10.0	.....	.....	.....	117.9	38
March	.....	.....	4.5	17.0	19.9	18.0	16.0	14.0	19.0	16.0	19.0	19.0	13.0	1.0	.....	.....	176.4	47
April	.....	0.1	8.0	14.0	16.0	19.0	19.0	17.0	19.5	23.0	23.0	20.0	14.5	4.0	.....	.....	197.1	51
May	.....	3.5	15.0	18.0	20.0	20.0	20.0	20.0	25.0	25.0	22.0	23.0	24.0	8.0	.....	.....	243.5	58
June	.....	2.5	14.3	19.0	20.0	19.0	22.0	21.0	24.0	28.0	26.0	27.0	23.0	18.0	.....	.....	263.8	63
July	.....	0.6	25.0	27.0	28.0	27.0	25.0	27.0	27.0	29.0	26.0	27.0	23.0	9.0	.....	.....	300.6	70
August	.....	0.4	8.0	18.0	22.0	17.0	23.0	22.0	23.0	21.0	22.0	21.0	20.0	6.0	.....	.....	223.4	55
September	.....	.....	14.0	23.0	25.0	26.1	26.0	25.0	26.0	25.0	26.0	22 0	19.0	5.0	.....	.....	262.1	71
October	.....	.....	2.5	21.0	28.0	29.0	30.0	30.0	31.0	30.0	29.5	27.0	18.0	1.3	.....	.....	277.3	78
November	.....	.....	0.9	19.0	20.0	23.0	22.0	20.0	20.0	21.0	23.0	21.0	9.5	.....	.....	.....	199.4	62
December	.....	.....	.....	6.5	20.0	21.0	22.0	20.0	20.0	20.0	19.0	13.6	.....	.....	.....	.....	162.1	51
Sum	.....	7.1	93.5	208.5	256.9	254.5	259.0	247.5	269.5	274.0	272.0	251.6	183.0	52.3	.....	.....	2,629.4	.....
Percentage of possible.	.....	5	34	57	70	70	71	68	74	75	75	69	50	19	.....	.....	.....	59

KANSAS CITY, MO.

[Lat. 39° 05′.]

January	.....	.....	.....	0.8	15.0	18.0	17.5	18.0	19.5	20.0	20.5	16.5	1.5	.....	.....	.....	147.3	48
February	.....	.....	.....	5.5	13.5	16.5	18.0	17.0	18.0	17.5	14.5	14.5	6.0	.....	.....	.....	141.0	47
March	.....	.....	2.5	13.9	17.0	17.5	21.5	22.0	23.0	22.0	24.0	16.0	2.0	.....	.....	.....	181.4	49
April	.....	1.0	12.0	17.0	17.0	18.0	15.8	15.5	17.5	19.5	18.5	17.0	16.5	9.5	.....	.....	194.8	49
May	.....	4.5	15.0	16.0	19.0	19.0	18.5	17.2	18.0	18.0	22.0	23.0	19.0	14.0	3.5	.....	226.7	51
June	.....	6.0	18.3	24.0	22.5	24.0	23.0	16.5	10.5	19.0	22.0	22.0	19.0	18.0	4.0	.....	243.8	55
July	.....	9.5	15.0	17.0	21.0	25.5	25.0	24.0	19.5	24.0	28.0	27.0	23.5	17.5	11.0	.....	287.5	63
August	....	6.5	25.3	23.6	22.0	23.0	23.0	25.5	21.0	25.0	25 0	25.0	26.0	24.0	2.5	.....	297.4	70
September	.....	.....	15.0	19.0	22.0	22.0	25.0	26.0	23.0	22.5	23.0	20.0	18.0	7.1	.....	.....	242.6	65
October	.....	.....	0.6	22.0	28.0	28.5	29.0	29.5	28.0	27.0	27.0	25.0	21.0	2.0	.....	.....	267.6	77
November	.....	.....	.....	1.0	15.0	15.0	20.0	20.0	20.0	20.0	19.0	16.0	1.9	.....	.....	.....	147.9	49
December	.....	.....	.....	1.3	17.9	22.7	19.5	22.7	19.5	19.5	16.0	14.6	.....	.....	.....	.....	153.7	52
Sum	.....	27.5	108.7	161.1	229.9	249.7	255.8	253.9	237.5	264.0	259.5	236.6	154.4	87.1	21.0	.....	2,531.7	.....
Percentage of possible.	.....	19	42	46	63	68	70	70	65	72	71	65	44	36	14	.....	.....	57

MEMPHIS, TENN.

[Lat. 35° 09′.]

Month.	Sunshine recorded during hours ending (local time)—															Total.	Per centage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	.....	12.0	21.0	22.5	23.0	24.0	13.7	19.5	20.0	17.5	0.5	.....	.....	.....	173.7	55
February	.....	.....	0.8	7.2	11.0	11.0	14.0	12.5	13.0	13.0	13.0	11.0	8.5	.....	.....	.....	115.0	38
March	.....	.....	10.3	18.0	20.0	20.0	21.5	20.0	13.5	20.0	19.0	21.0	17.5	11.5	.....	.....	212.3	57
April	.....	1.8	15.0	15.0	16.0	16.0	19.0	18.0	19.0	21.0	22.0	23.0	21.0	14.5	.....	.....	221.3	58
May	.....	8.5	18.0	20.0	22.0	20.0	23.0	21.0	20.5	23.0	23.0	22.0	20.0	18.0	4.0	.....	263.0	61
June	.....	6.5	17.0	19.0	22.0	22.0	24.0	26.0	24.0	26.0	25.0	26.0	26.0	25.0	2.8	.....	291.3	67
July	.....	17.5	23.0	27.0	28.0	29.0	30.0	29.0	28.0	27.0	26.0	25.0	24.0	23.5	8.3	.....	345.3	78
August	.....	6.3	24.0	25.0	26.0	25.0	26.0	25.5	26.5	27.0	26.5	23.5	25.0	21.5	0.3	.....	308.1	74
September	.....	.....	8.8	16.0	18.0	18.0	20.0	19.0	18.0	18.0	19.0	18.0	18.0	4.8	.....	.....	195.6	53
October	.....	.....	1.8	22.0	26.0	26.0	26.0	26.0	26.0	27.0	27.0	29.0	24.5	.....	.....	.....	261.3	75
November	.....	.....	.....	7.5	13.0	17.0	17.0	16.0	19.0	20.0	19.0	16.0	3.6	.....	.....	.....	148.1	48
December	.....	.....	.....	5.5	15.0	15.0	20.0	22.0	22.0	19.0	19.0	16.0	2.0	.....	.....	.....	155.5	51
Sum	.....	40.6	118.7	194.2	238.0	241.5	263.5	259.0	243.2	260.5	258.5	248.0	190.6	118.8	15.4	.....	2,690.5	.....
Percentage of possible.	.....	30	46	54	65	66	72	71	67	71	71	68	53	47	11	.....	.....	60

NEW ORLEANS, LA.

[Lat. 29° 58′.]

January	.....	.....	.....	7.3	16.0	19.0	20.0	13.0	19.0	25.0	24.0	18.0	3.5	.....	.....	.....	164.8	51
February	.....	.....	1.0	14.4	16.4	14.4	14.4	14.4	16.4	14.4	16.4	14.4	14.4	.....	.....	.....	151.0	48
March	.....	.....	3.5	18.0	20.0	22.5	21.0	17.0	24.0	25.0	23.0	22.0	20.0	2.5	.....	.....	218.5	59
April	.....	.....	1.0	15.0	20.0	23.0	23.0	17.0	22.0	22.0	22.0	21.0	17.0	10.5	.....	.....	213.5	55
May	.....	.....	5.9	16.0	17.0	19.0	18.0	10.0	20.0	21.0	20.0	21.0	20.0	17.0	1.5	.....	206.4	49
June	.....	.....	10.9	18.0	19.0	20.0	18.0	12.0	11.0	12.0	16.0	16.0	12.0	4.5	.....	.....	169.4	40
July	.....	0.5	12.5	25.5	26.0	25.0	22.0	14.5	19.0	19.0	13.0	13.0	11.5	6.5	0.3	.....	208.3	49
August	.....	0.2	6.3	23.0	24.0	26.0	22.0	13.0	19.5	21.0	16.5	17.0	12.0	3.5	0.4	.....	204.4	50
September	.....	2.0	10.5	18.0	23.5	19.0	23.0	16.0	19.0	16.0	16.0	17.0	10.0	3.0	0.9	.....	193.9	52
October	.....	.....	1.5	11.0	15.6	20.2	21.5	21.0	25.8	24.9	22.6	23.8	21.7	0.7	.....	.....	210.3	59
November	.....	.....	1.0	8.0	17.0	16.0	16.0	14.0	15.0	19.0	18.0	17.0	12.0	.....	.....	.....	153.0	48
December	.....	.....	.....	0.6	12.4	19.7	23.1	29.8	30.9	30.1	29.5	24.9	8.7	.....	.....	.....	209.7	66
Sum	.....	2.7	54.1	174.8	226.9	243.8	242.0	191.7	241.6	249.4	237.0	225.1	162.8	48.2	3.1	.....	2,303.2	.....
Percentage of possible.	.....	2	20	48	62	67	66	53	66	68	65	62	45	18	2	.....	.....	52

NEW YORK CITY, N. Y.

[Lat. 40° 43′.]

January	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August	.....	.....	2.1	11.4	18.6	21.5	23.2	25.1	25.1	24.8	23.8	23.6	21.7	12.4	4.3	1.2	238.8	58
September	.....	.....	0.1	9.2	17.0	20.9	23.2	24.0	25.8	24.2	25.2	21.7	16.5	4.9	.....	.....	212.7	57
October	.....	.....	0.2	7.7	19.7	23.2	25.1	25.5	26.5	24.7	21.5	19.3	13.0	0.8	.....	.....	207.8	60
November	.....	.....	.....	2.7	16.7	20.0	20.9	24.4	24.5	21.7	19.7	16.4	5.2	0.5	.....	.....	172.7	53
December	.....	.....	.....	.....	8.2	13.1	16.8	18.4	16.5	15.4	16.5	15.1	1.8	.....	.....	.....	121.8	42
Sum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Percentage of possible.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

PHILADELPHIA, PA.

[Lat. 39° 57′.]

January	.....	.....	.....	1.8	11.5	16.0	17.5	17.0	17.0	20.0	16.0	16.0	1.3	.....	.....	.....	136.1	45
February	.....	.....	.....	9.8	14.0	13.0	13.0	14.5	14.5	14.5	13.0	8.0	4.8	.....	.....	.....	119.1	40
March	.....	.....	3.4	17.0	19.0	18.5	18.0	18.5	15.5	17.0	15.0	14.5	13.0	2.5	.....	.....	171.9	46
April	.....	0.3	9.0	10.0	13.0	14.0	14.0	13.0	14.0	15.0	15.0	14.0	12.0	5.8	.....	.....	149.1	38
May	.....	1.7	19.0	20.0	20.0	22.0	21.0	19.0	18.0	19.0	19.0	18.0	17.0	14.0	1.5	.....	229.2	51
June	.....	9.0	13.0	15.0	16.0	17.0	17.0	15.5	16.5	16.0	17.5	18.0	15.0	12.0	2.6	.....	200.1	45
July	.....	8.8	21.0	24.0	24.0	24.0	24.0	25.0	24.0	25.0	26.0	26.0	22.0	22.0	1.8	.....	297.6	65
August	.....	1.0	12.6	14.1	18.2	22.7	22.3	24.7	23.7	23.6	22.6	22.9	21.9	9.0	.....	.....	239.2	56
September	.....	.....	0.4	8.2	15.9	18.9	19.7	23.1	24.2	23.3	21.8	18.4	13.5	3.7	.....	.....	191.1	51
October	.....	.....	.....	6.6	17.1	20.4	20.9	20.1	17.7	17.6	19.3	16.0	8.1	0.5	.....	.....	164.3	43
November	.....	.....	.....	1.9	13.7	18.2	21.3	20.4	20.3	19.1	17.4	12.2	1.7	.....	.....	.....	146.2	42
December	.....	.....	.....	.....	10.9	15.8	18.3	17.7	17.0	17.6	18.2	14.4	2.6	.....	.....	.....	132.5	45
Sum	.....	20.8	78.4	128.4	193.3	222.5	227.0	228.5	222.4	227.7	220.8	198.4	132.9	69.5	5.9	.....	2,176.5	.....
Percentage of possible.	.....	14	32	37	53	61	62	63	61	62	60	54	39	29	4	.....	.....	49

PORTLAND, OREG.

[Lat. 45° 32′.]

Month.	Sunshine recorded during hours ending (local time)—															Total.	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	.....	.....	5.0	9.0	11.5	13.0	11.0	12.5	10.5	10.5	1.0	.....	.....	.....	84.0	29
February	.....	.....	.....	0.5	2.0	5.0	6.0	8.0	8.0	6.0	8.0	6.0	3.0	.....	.....	.....	52.5	18
March	.....	.....	.....	3.5	7.0	9.0	9.0	13.0	12.0	12.0	10.5	12.0	9.0	2.5	.....	.....	99.5	27
April	.....	.....	1.0	2.0	6.5	5.0	9.0	10.0	9.0	11.0	11.0	9.0	6.0	2.5	.....	.....	82.0	20
May	.....	1.5	4.0	9.5	12.5	13.0	13.5	13.0	15.0	19.0	19.0	20.0	14.0	12.0	8.0	1.5	175.5	38
June	.....	7.0	10.0	11.0	13.0	13.0	13.0	16.0	17.0	15.0	20.0	18.0	16.0	14.0	12.0	2.5	197.5	42
July	.....	13.0	18.0	19.0	22.0	21.0	22.0	25.0	26.0	27.0	26.0	25.0	24.0	22.0	20.0	1.5	311.5	66
August	.....	4.5	13.0	17.0	19.0	22.0	23.5	24.0	26.5	27.0	27.0	26.0	26.0	20.0	7.5	.....	283.0	65
September	.....	.....	2.5	7.0	8.0	12.0	14.0	13.0	13.0	16.0	15.0	10.0	10.0	7.0	.....	.....	125.5	33
October	.....	.....	0.3	2.0	6.0	11.2	12.0	17.0	15.0	17.0	18.0	18.0	13.5	0.5	.....	.....	130.5	38
November	.....	.....	.....	.....	6.0	8.0	8.0	9.0	12.0	12.0	10.0	10.0	4.0	.....	.....	.....	79.0	28
December	.....	.....	.....	.....	1.0	1.0	2.0	5.0	8.0	7.0	7.0	7.5	.....	.....	.....	.....	38.5	14
Sum	.....	26.0	48.8	71.5	108.0	129.2	142.5	166.0	172.5	181.5	180.0	172.0	126.5	80.5	47.5	.5	1,659.0	.....
Percentage of possible.	.....	17	21	22	30	35	39	45	47	50	49	47	39	35	30	5 9	.....	37

ST. LOUIS, MO.

[Lat. 38° 38′.]

January	.....	.....	.....	.8	12.0	14.0	15.0	18.0	17.0	16.0	10.0	7.5	0.5	.....	.....	.....	110.8	36
February	.....	.....	.....	6.9	12.5	15.5	13.8	13.6	13.9	15.5	16.3	14.6	9.8	5.3	.....	.....	137.7	46
March	.....	.....	5.4	13.8	17.0	17.8	16.5	16.7	16.5	17.9	19.0	16.2	15.4	8.3	.5	.....	181.0	49
April	.....	.....	6.6	13.0	16.4	15.4	13.8	15.3	14.0	18.3	18.4	16.0	13.0	7.0	1.0	.....	168.2	42
May	.....	13.8	18.4	20.0	21.2	21.0	20.2	19.4	18.4	18.0	18.8	19.5	19.8	20.1	7.3	.....	255.9	58
June	.7	15.2	23.0	23.4	22.0	24.4	25.9	24.1	23.8	26.7	24.8	23.9	20.7	18.8	9.5	.....	306.9	69
July	.....	13.8	26.7	27.0	27.0	25.8	26.5	26.0	21.4	21.5	21.6	21.0	21.4	22.3	17.3	1.6	320.9	71
August	.....	3.6	20.1	23.3	25.3	26.9	27.3	24.4	28.8	28.3	28.4	27.0	26.0	24.5	6.8	.....	320.7	76
September	.....	.....	8.5	20.4	21.2	23.4	22.4	22.4	23.9	24.5	23.7	22.8	21.8	18.9	2.7	.....	256.6	69
October	.....	.....	4.8	24.4	25.8	26.5	27.2	27.1	27.4	27.7	28.0	26.2	25.3	11.3	.....	.....	281.7	81
November	.....	.....	.....	8.3	17.0	18.0	18.0	16.5	19.7	20.0	22.6	22.2	18.0	.2	.....	.....	180.5	60
December	.....	.....	.....	4.9	17.3	16.5	17.3	16.5	16.0	15.6	14.4	14.7	6.8	.....	.....	.....	140.0	47
Sum	.7	46.4	113.5	186.2	234.7	245.2	243.9	240.0	240.8	250.0	246.0	231.6	198.5	136.7	45.1	1.6	2,660.9	.....
Percentage of possible.	0	32	46	53	64	67	67	66	66	68	67	63	57	56	31	6	.....	60

SALT LAKE CITY, UTAH.

[Lat. 40° 46′.]

January	.....	.....	.....	4.6	19.0	22.0	21.0	22.0	24.0	24.0	24.0	20.0	6.5	.....	.....	.....	187.1	63
February	.....	.....	1.0	4.5	8.0	9.5	10.0	11.0	11.0	12.0	15.0	14.0	8.0	.8	.....	.....	104.8	35
March	.....	.5	3.0	7.0	8.0	11.0	13.0	13.0	14.0	14.0	13.0	14.0	14.5	8.5	.....	.....	133.5	36
April	.....	.8	12.0	14.0	17.0	19.0	17.0	17.0	18.0	18.0	17.5	17.0	17.0	12.5	2.7	.....	199.5	50
May	.....	13.0	21.0	22.0	22.5	22.0	23.0	22.0	22.0	23.0	26.0	23.5	22.0	22.0	12.8	.....	296.8	66
June	1.5	26.0	29.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	28.5	28.0	2.4	415.4	92
July	.5	26.0	26.0	27.0	27.0	27.0	27.0	28.0	28.0	28.0	28.0	28.0	29.0	28.0	27.0	1.3	385.8	84
August	.....	9.5	24.0	25.0	25.0	25.0	24.0	24.0	23.0	26.0	27.0	25.0	24.0	19.0	7.5	.....	308.0	72
September	.....	.....	21.0	26.0	25.5	26.0	25.0	27.0	28.0	26.0	26.0	27.0	27.0	23.7	.....	.....	308.2	82
October	.....	.....	1.5	16.5	20.5	21.5	26.0	22.0	24.0	20.0	22.0	20.0	18.5	.6	.....	.....	213.1	62
November	.....	.....	.....	7.7	16.0	19.0	19.0	19.0	18.0	17.0	14.0	13.0	5.5	.....	.....	.....	148.2	50
December	.....	.....	.....	.4	7.0	14.0	13.0	14.0	17.0	16.0	15.0	11.0	2.3	.....	.....	.....	109.7	38
Sum	2.0	75.8	138.5	184.7	225.5	246.0	248.0	249.0	257.0	254.0	257.5	242.5	204.3	143.6	78.0	3.7	2,810.1	.....
Percentage of possible.	6	51	57	54	62	67	68	68	70	70	71	66	60	60	52	10	.....	63

SAN DIEGO, CAL.

[Lat. 32° 43′.]

January	.....	.....	.....	10.8	23.0	23.0	23.0	24.0	24.0	26.0	24.0	23.0	11.0	.....	.....	.....	211.8	66
February	.....	.....	2.5	16.5	18.0	21.0	23.0	23.0	23.0	23.0	22.0	23.0	19.0	2.0	.....	.....	216.0	70
March	.....	.....	8.4	14.5	15.5	17.0	20.0	20.0	20.0	21.0	21.0	20.0	20.0	10.0	.....	.....	207.4	58
April	.....	1.7	15.0	16.0	20.0	25.0	26.0	27.0	28.0	28.5	27.5	27.0	27.0	22.0	1.0	.....	291.7	75
May	.....	4.5	12.0	13.0	20.0	23.0	26.0	27.0	27.0	26.0	26.0	26.0	24.0	21.0	5.3	.....	280.8	66
June	.....	2.6	9.0	13.0	16.0	19.5	21.5	25.5	26.5	26.5	26.0	25.5	23.0	23.0	2.5	.....	260.1	61
July	.....	2.5	7.0	12.0	23.0	28.0	29.0	29.0	30.0	30.0	30.0	30.0	29.0	29.0	8.7	.....	317.2	73
August	.....	3.3	8.0	11.0	19.5	24.0	27.0	27.5	31.0	31.0	30.5	30.5	30.5	30.0	9.5	.....	313.3	76
September	.....	.....	5.0	6.0	14.0	21.0	27.0	28.0	28.0	28.0	28.5	28.5	26.5	16.5	.....	.....	257.0	69
October	.....	.....	3.5	15.0	18.0	23.0	25.0	28.0	30.0	29.5	29.0	29.5	29.0	3.3	.....	.....	262.8	75
November	.....	.....	.....	12.0	17.0	21.0	24.0	26.0	26.0	26.0	26.0	26.0	18.0	.....	.....	.....	222.0	71
December	.....	.....	.....	2.9	19.0	22.0	23.0	27.0	27.0	26.0	26.0	24.0	10.0	.....	.....	.....	206.9	66
Sum	.....	14.6	70.4	142.7	223.0	267.5	294.5	312.0	320.5	321.5	316.5	313.0	267.0	156.8	27.0	.....	3,047.0	.....
Percentage of possible.	.....	11	27	39	61	73	81	85	88	88	87	86	74	60	20	.....	.....	68

SAN FRANCISCO, CAL.

[Lat. 37° 48′.]

Month.	Sunshine recorded during the hours ending (local time)—															Total.	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	.....	3.8	15.0	18.0	21.0	22.0	24.0	22.0	19.0	18.0	1.5	.....	.....	.....	164.3	54
February	.....	.....	.....	3.5	17.0	18.0	18.0	19.0	20.0	20.0	21.0	21.0	10.5	.5	.....	.....	168.5	56
March	.....	.....	.9	5.0	10.0	15.0	14.0	12.0	17.0	17.0	19.0	18.0	15.0	7.0	.....	.....	149.9	40
April	.....	1.9	10.0	17.0	21.0	21.0	21.0	22.0	22.0	23.0	25.0	25.0	21.0	7.5	.5	.....	237.9	60
May	.....	3.5	12.5	19.5	19.0	20.0	22.0	26.0	27.0	27.0	27.0	26.0	24.0	21.5	1.8	.....	276.8	63
June	.....	14.5	27.0	27.0	29.0	29.0	29.0	30.0	30.0	30.0	30.0	30.0	29.0	28.0	12.7	.....	375.2	85
July	.....	3.8	16.0	21.0	25.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	30.0	27.0	11.5	.....	351.3	78
August	.....	.4	7.0	12.0	14.0	16.0	21.0	22.0	29.0	30.0	30.0	28.0	24.0	17.0	2.7	.....	253.1	60
September	.....	.....	3.5	14.0	16.0	18.0	23.0	25.0	25.0	27.0	27.0	27.0	25.0	10.7	.....	.....	241.2	65
October	.....	.....	1.5	16.0	23.0	24.0	25.0	26.0	25.0	26.0	26.0	23.0	19.0	1.8	.....	.....	236.3	68
November	.....	.....	.....	4.0	10.0	13.0	14.0	12.2	14.0	16.0	16.0	18.0	10.0	.....	.....	.....	127.2	42
December	.....	.....	.....	1.5	9.0	12.0	15.0	15.0	16.0	14.0	14.0	14.0	1.4	.....	.....	.....	110.9	37
Sum	.....	24.1	78.4	144.3	208.0	235.0	254.0	262.2	279.0	283.0	285.0	279.0	210.4	121.0	29.2	.....	2,602.6	.....
Percentage of possible.	.....	17	32	41	57	64	70	72	76	78	78	76	60	49	20	.....	.....	60

SANTA FE, N. MEX.

[Lat. 35° 41′.]

January	.....	.....	.....	13.0	23.5	24.5	26.5	24.5	25.0	25.0	25.5	22.5	12.2	.....	.....	.....	222.2	71
February	.....	.....	4.1	14.0	17.5	20.5	22.0	20.5	22.0	18.0	18.0	19.0	16.0	7.0	1.0	.....	199.6	65
March	.....	3.5	12.0	20.0	23.0	24.0	24.0	25.0	26.0	27.0	26.0	24.0	21.0	14.0	1.2	.....	270.7	73
April	.....	1.9	25.0	29.0	28.0	28.0	29.0	28.5	26.5	25.0	25.0	23.0	21.0	17.0	3.5	.....	310.4	79
May	.....	14.1	26.0	29.0	30.0	30.0	30.0	28.0	26.0	24.0	23.0	21.0	20.0	20.0	15.0	.....	336.1	77
June	.....	16.5	29.5	29.5	29.5	29.5	29.5	28.0	26.0	25.0	22.0	22.0	19.0	19.0	15.0	0.2	340.2	78
July	.....	8.0	20.5	21.0	24.5	22.0	26.0	25.0	22.0	16.0	16.0	16.0	15.0	12.0	6.5	.....	250.5	56
August	.....	5.2	21.0	22.5	25.5	25.5	27.0	24.5	24.0	24.0	21.0	18.5	18.0	20.0	5.0	.....	281.7	67
September	.....	0.2	15.5	22.0	23.0	22.0	24.0	24.0	23.0	20.0	20.5	21.0	20.0	21.0	3.0	.....	259.2	70
October	.....	.....	1.0	25.5	29.5	30.0	29.0	30.0	29.5	29.5	28.5	29.0	28.0	15.0	.....	.....	304.5	67
November	.....	.....	.....	4.0	27.0	28.0	29.0	28.0	24.0	26.0	26.0	25.0	22.0	2.0	.....	.....	241.0	78
December	.....	.....	.....	0.9	16.0	25.0	25.0	28.0	28.0	28.0	27.0	26.0	13.5	.....	.....	.....	217.4	71
Sum	.....	49.4	154.6	230.4	297.0	309.0	321.0	314.0	302.0	287.5	278.5	267.0	225.7	147.0	50.2	0.2	3,233.5	.....
Percentage of possible.	.....	36	61	64	81	85	88	86	83	79	76	73	63	58	36	.....	.....	74

SAVANNAH, GA.

[Lat. 32° 05′.]

January	.....	.....	.....	2.6	16.0	19.0	20.0	21.0	20.0	21.0	21.0	20.0	10.8	.....	.....	.....	171.4	53
February	.....	.....	.....	5.5	12.0	15.0	18.0	17.0	17.0	17.0	16.0	15.0	12.0	0.8	.....	.....	145.3	47
March	.....	.....	3.8	11.0	19.0	20.0	21.0	21.0	22.0	20.0	20.0	19.0	11.0	1.0	.....	.....	188.8	51
April	.....	.....	12.8	21.0	22.0	21.0	22.0	24.0	23.0	22.0	21.0	21.0	15.0	9.5	.....	.....	234.3	60
May	.....	1.5	10.0	17.0	18.0	18.0	20.0	18.0	18.0	20.0	21.0	21.0	15.0	9.0	0.8	.....	207.3	48
June	.....	1.6	11.8	20.0	23.0	24.0	23.0	21.0	17.0	19.0	17.0	18.0	15.0	11.0	.....	.....	221.4	52
July	.....	3.8	27.0	28.0	27.0	28.0	26.0	26.0	24.0	26.0	26.0	20.0	17.0	13.0	.....	.....	291.8	67
August	.....	0.6	4.0	11.0	15.0	15.0	15.0	15.0	15.0	15.0	13.0	10.0	8.0	0.5	.....	.....	137.1	33
September	.....	.....	6.0	17.0	18.0	20.0	20.0	20.0	22.0	21.0	18.0	16.0	17.0	3.5	.....	.....	198.5	54
October	.....	.....	0.6	17.0	21.0	22.0	22.0	22.0	22.0	22.0	25.0	22.0	19.0	.....	.....	.....	214.6	61
November	.....	.....	.....	5.8	16.0	17.0	19.0	19.0	19.0	19.0	20.0	18.0	7.0	.....	.....	.....	159.8	51
December	.....	.....	.....	4.0	12.0	21.0	21.0	23.0	23.0	23.0	22.0	16.0	2.4	.....	.....	.....	167.4	53
Sum	.....	7.5	76.0	159.9	219.0	240.0	247.0	247.0	242.0	245.0	240.0	216.0	149.2	48.3	0.8	.....	2,337.7	.....
Percentage of possible.	.....	6	29	44	60	66	68	68	66	67	66	59	41	19	1	.....	.....	53

TUCSON, ARIZ.

[Lat., 32° 14′.]

January	.....	.....	.....	22.0	30.0	30.0	30.5	29.7	29.5	28.5	26.5	25.0	21.0	2.0	.....	.....	274.7	86
February	.....	.....	4.0	19.0	23.5	24.0	24.0	16.0	24.0	24.0	24.5	22.0	19.0	3.7	.....	.....	227.7	73
March	.....	.....	15.5	21.0	24.0	24.0	22.0	18.5	21.5	25.0	27.0	27.0	26.0	15.0	3.0	.....	269.5	72
April	.....	0.5	23.0	28.5	30.0	30.0	28.5	28.0	27.5	27.0	26.0	26.0	26.0	24.0	3.0	.....	328.0	87
May	.....	3.0	27.0	29.2	30.0	30.0	29.0	27.0	28.0	28.0	28.0	28.0	28.0	27.0	7.0	.....	349.2	81
June	.....	8.6	28.5	29.0	30.0	30.0	30.0	30.0	29.0	28.5	28.5	29.5	28.5	29.0	12.5	.....	371.6	87
July	.....	2.0	14.0	17.0	21.5	22.0	23.0	23.0	27.0	25.0	25.0	25.0	23.0	14.0	3.5	.....	265.0	61
August	.....	1.5	14.0	24.5	25.0	24.0	25.0	25.0	24.0	22.0	22.0	17.0	16.5	12.0	0.5	.....	253.0	61
September	.....	.....	17.6	27.0	27.0	27.0	27.0	26.0	25.0	24.0	25.0	25.0	24.0	16.0	.....	.....	290.6	78
October	.....	.....	5.0	27.7	28.0	27.0	25.0	28.0	30.5	30.0	30.0	30.0	28.0	9.0	.....	.....	298.2	85
November	.....	.....	.....	17.5	27.0	27.0	25.5	28.0	28.0	27.0	27.0	25.0	18.3	.....	.....	.....	250.3	79
December	.....	.....	.....	9.4	26.8	26.8	26.8	26.8	26.8	26.8	24.2	24.2	10.7	.....	.....	.....	229.3	73
Sum	.....	15.6	148.6	271.8	322.8	321.8	316.3	306.0	320.8	315.8	313.7	303.7	269.0	151.7	29.5	.....	3,407.1	.....
Percentage of possible.	.....	12	56	75	88	88	87	84	88	87	86	83	74	58	22	.....	.....	77

WASHINGTON, D. C.

[Lat., 38° 54′.]

Month.	Sunshine recorded during hours ending (local time)—															Total.	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	.....	0.5	14.0	21.0	25.0	24.0	22.0	20.5	22.0	19.0	2.9	.....	.....	.....	170.9	56
February	.....	.....	.....	10.0	14.0	15.0	15.0	15.0	18.0	17.0	17.0	13.0	8.0	.....	.....	.....	142.0	47
March	.....	.....	9.5	14.0	16.0	17.0	17.0	14.0	19.0	19.0	17.0	13.0	13.0	5.6	.....	.....	174.1	47
April	.....	.....	9.4	14.6	15.8	15.8	14.0	14.6	15.2	15.8	15.8	14.6	13.4	8.2	.....	.....	167.2	42
May	.....	.....	17.0	19.0	20.0	20.0	19.0	18.0	16.0	16.0	20.0	22.0	22.0	12.0	.....	.....	221.0	50
June	.....	5.5	16.0	18.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	18.0	17.0	13.5	2.5	.....	223.5	50
July	.....	4.5	20.0	21.0	23.0	25.0	26.0	28.0	28.0	26.0	26.0	23.0	22.0	19.0	6.0	.....	297.5	66
August	.....	2.7	15.0	21.0	23.0	21.0	24.0	24.0	25.0	26.0	25.0	24.0	22.0	20.0	3.0	.....	275.7	65
September	.....	.....	9.0	13.0	14.0	16.0	18.0	18.0	19.0	17.0	17.0	17.0	16.0	9.8	.....	.....	183.8	49
October	.....	.....	1.0	10.0	17.0	18.0	19.0	22.0	23.0	23.0	22.0	22.0	16.0	2.0	.....	.....	195.0	56
November	.....	.....	.....	0.5	12.0	16.0	18.0	19.0	20.0	19.0	16.0	13.0	3.5	.....	.....	.....	137.0	45
December	.....	.....	.....	.....	12.0	17.0	19.0	19.0	19.0	20.0	19.0	15.0	2.4	.....	.....	.....	142.4	48
Sum	.....	12.7	96.9	141.6	199.8	220.8	233.0	234.6	243.2	238.3	235.8	213.6	158.2	90.1	11.5	.....	2,330.1	.....
Percentage of possible	.....	10	38	40	55	60	64	64	67	65	66	59	45	37	8	.....	.....	52

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TABLE OF MEAN MONTHLY RIVER STAGES FOR THE YEAR 1893.

[In feet and tenths.]

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly average.
Augusta, Ga	7.8	12.8	10.6	7.7	7.6	8.8	6.8	7.9	11.8	7.8	6.4	7.1	8.6
Cairo, Ill	9.7	29.3	34.4	34.8	44.1	34.0	17.5	8.7	6.4	6.7	6.6	10.4	20.2
Chattanooga, Tenn	4.1	15.8	8.2	6.7	11.2	8.0	3.6	3.0	5.1	3.5	2.8	3.4	6.3
Cincinnati, Ohio	12.7	41.1	25.8	26.8	36.1	14.9	8.3	4.8	7.2	10.5	9.5	16.5	17.8
Confluence, Pa	3.6	4.8	3.4	3.4	4.2	0.9	0.4	0.1	0.5	1.2	1.0	1.8	2.1
Davenport, Iowa	(*)	(*)	7.2	9.4	12.2	8.0	3.5	1.5	0.9	1.5	1.2	3.1	4.8
Evansville, Ind	7.7	32.7	22.2	22.8	31.9	16.1	6.8	3.4	4.0	6.5	7.0	12.3	14.4
Freeport, Pa	4.2	12.0	10.2	10.0	9.5	3.4	2.2	0.8	1.6	2.3	2.8	8.6	5.6
Helena, Ark	9.8	23.3	38.0	33.8	44.8	41.0	20.6	8.8	4.3	4.0	4.2	7.3	20.0
Johnsonville, Tenn	5.9	19.4	14.2	15.3	16.5	15.2	3.5	2.7	4.6	2.6	2.4	3.7	8.8
Kansas City, Mo	(*)	9.0	8.7	13.0	10.6	14.5	14.5	9.6	6.3	5.8	6.0	4.4	9.3
Keokuk, Iowa	(*)	(*)	9.9	10.4	13.6	9.2	3.9	1.4	0.5	1.2	0.7	1.7	5.2
La Crosse, Wis	(*)	(*)	(*)	9.8	11.0	7.2	4.0	2.2	2.1	2.7	2.2	(*)	5.2
Little Rock, Ark	9.7	9.4	11.6	10.2	17.3	12.8	8.7	5.8	4.6	6.4	3.4	5.0	8.7
Louisville, Ky	5.9	18.8	9.8	10.2	16.0	7.1	4.4	3.0	4.0	5.3	5.3	7.4	8.1
Marietta, Ohio	8.6	23.0	15.3	14.5	18.1	6.3	4.3	2.6	3.3	4.8	4.7	11.1	9.7
Memphis, Tenn	6.1	18.7	27.9	25.3	34.0	28.5	13.8	6.3	3.7	3.6	3.6	5.9	14.8
Morgantown, W. Va	13.9	8.0	5.4	6.7	6.8	4.4	4.8	4.8	4.7	5.3	6.4	6.7	6.5
Nashville, Tenn	6.3	21.4	13.9	11.8	14.2	14.4	3.7	3.1	1.3	1.6	1.7	6.4	8.3
New Orleans, La	6.9	6.7	13.6	11.8	14.9	16.9	13.2	4.7	3.6	3.6	3.5	3.1	8.5
Omaha, Nebr	.....	.....	.....	10.9	8.8	10.6	10.7	8.1	6.1	.....	.....	.....	.....
Paducah, Ky	8.5	28.7	26.9	25.8	35.4	22.8	6.3	2.9	3.4	4.1	4.4	9.0	14.8
Plattsmouth, Nebr	.....	.....	4.4	6.6	5.1	6.9	6.7	.....	.....	.....	.....	.....	.....
Pittsburg, Pa	4.3	12.3	9.6	9.5	10.0	4.8	5.9	5.8	5.9	5.9	6.0	7.2	7.3
Portland, Oreg	3.2	4.9	4.0	8.4	15.9	20.0	15.5	8.4	3.8	4.8	6.4	10.4	8.8
St. Joseph, Mo	2.6	3.6	4.5	7.5	6.2	8.4	8.4	5.5	3.1	2.6	2.7	0.6	4.6
St. Louis, Mo	4.9	9.5	17.8	22.0	26.4	22.6	15.4	8.0	4.1	3.6	3.2	1.4	11.6
St. Paul, Minn	(*)	(*)	(*)	10.0	12.1	6.4	3.5	2.2	2.9	2.9	2.1	1.8	4.9
Shreveport, La	24.2	12.7	17.7	14.6	19.9	19.8	7.0	2.6	—0.9	1.9	—2.0	1.3	9.9
Vicksburg, Miss	15.6	19.4	40.9	36.0	46.4	45.3	27.3	8.2	2.6	2.2	1.6	4.5	20.8

*River frozen.

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VIOLENT STORMS IN THE UNITED STATES FOR 1893.

As the Mississippi Valley and States bordering upon it become more thickly populated, the question of the destruction and danger from severe local storms has a continually increasing interest. On the one hand, it is stated that the increase of electric wires, railways, and all metallic circuits has given a greater opportunity for the display of these storms; on the other hand, it is said that the very abundance of these wires and metallic circuits is a source of safety, for they prevent the extreme display of electricity by carrying it off silently. It must be recognized by all that a careful, systematic, and most thorough study of these conditions is demanded year by year in order that we may have an accurate knowledge of their occurrence, of their distribution, of their destructiveness, and, in fact, of all possible facts regarding them which may lead to the best methods of meeting them and of giving reasonable warning of their approach.

In the year 1890 a circular was prepared to be used in all cases where a violent storm was reported by the newspapers or learned from any other source. These circulars called for answers to a few simple questions regarding the occurrence of the violent storm, and have been sent to observers of the Weather Bureau or to the postmaster of the towns where no observers were available. They have met with a ready response and have been invaluable in determining the exact extent and severity of the storm. All the reports have been carefully studied and each storm has been given a scale number indicating its violence, strictly speaking, and not necessarily the amount of damage. It is to be noted that in most cases the violence of a storm is to be measured by the amount of damage it has done, so that the scale is an approximate indication of the destructiveness. The original scale had three divisions—(1) those storms in which the loss was about $3,000; (2) about $20,000, and (3) $100,000 and above. In order to permit of little closer, estimates this scale has been enlarged or extended to take in ten divisions as follows: 0, 1—, 1, 1+, 2—, 2, 2+, 3—, 3, 3+; and an attempt has been made to arrange all the storms upon this extended scale. In 1893 the total number of storms reported was 661. In 1890 there were 347; in 1891, 297, and in 1892, 563; so that the number has steadily increased in the past three years This may be due in part to a greater interest taken in reporting such storms, but there would seem to be a veritable increase in the storms after allowing fully for this influence.

The accompanying table gives the storms of 1893 by scale and by months:

STORMS OF 1893 BY MONTHS AND VIOLENCE.

	0	1—	1	1+	2—	2	2+	3—	3	3+	Total.			
											1890	1891	1892	1893
January	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	6	3	21	1
February	2	2	3	.....	.....	.....	.....	.....	.....	.....	17	8	2	7
March	36	37	11	8	3	7	1	1	.....	.....	44	7	61	104
April	145	97	28	28	4	5	6	2	1	1	12	10	85	317
May	51	49	16	10	3	3	1	.....	.....	.....	55	30	62	133
June	10	6	3	3	.....	3	.....	.....	.....	.....	99	89	157	25
July	19	13	7	2	2	2	.....	.....	1	.....	50	23	141	46
August	5	4	3	.....	2	1	.....	.....	.....	.....	41	51	34	15
September	2	4	1	2	.....	1	1	.....	.....	.....	13	0	0	11
October	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	10	1	0	1
November	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	0	46	0	1
December	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	29	0	0
1890	116	98	78	20	10	13	4	1	5	2	.....	.....	.....	347
1891	138	88	44	19	1	5	2	.....	.....	.....	.....	.....	.....	297
1892	312	106	77	41	6	16	3	1	1	.....	.....	.....	.....	563
1893	270	214	73	53	14	22	9	3	2	1	.....	.....	.....	661
Total	836	506	272	133	31	56	18	5	8	3	.....	.....	.....	1,868

As in previous years the insignificant storms, scale 0 and 1—, far outnumber all the rest, forming 73 per cent of the whole. In 1890, 1891, and 1892 they formed 71 per cent of all, and in the four years 72 per cent of all. This is an important fact to be borne in mind, namely, that of all the violent storms reported in four years only 28 per cent were accompanied by a destruction greater than $50 to $500.

There is one peculiarity in the 1893 storms not noticed before, and that is the very great number in April, amounting to nearly half of all during the year. In June, the month of the maximum of previous years, there were only 25, or only 8 per cent of the number in April. In 1890 and 1891 the maximum came in May and June; in 1892, June and July, and 1893, April and May. The significance of this earlier occurrence in 1893 is not easy to determine. It was in part due to the large number of very low pressures which occurred in April in Kansas and the middle Mississippi Valley. The records for 1894 show that May and June will be the maximum months. It would appear that this concentration of these storms in any two months is a partial indication that the storms will not be so violent in other months. Many more years will be required to show this conclusively. The total number by months, March to August, are as follows: March, 216; April, 424; May, 280; June, 370; July, 260; August, 141. This indicates a maximum in April, but this is due to the large number in that month in 1893. There is no doubt that June is the month of greatest number, taking a long series of years.

There were 51 storms, having a scale from 2— to 3+, and a list of these storms is given here as a continuation of the list of 70 for 1890, 1891, and 1892. The loss given here is that to buildings and structures by the wind and not of crops, orchards, etc., by hail, flood, etc.

VIOLENT STORMS, SCALE 2— TO 3+, DURING 1893.

March 3.—Greeneville, Meriwether County, Ga.; scale, 2; time, 20:30; 38 stores and dwellings destroyed; 6 killed; loss, $150,000 in county.
Barnett, Clarke County, Miss.; scale, 2—; 9 killed; loss, $13,000.
Pachuta, Clarke County, Miss.; scale, 2; time, 18:30; 1 killed; loss, $15,000.
Toomsuba, Lauderdale County, Miss.; scale, 2+; 1 killed; loss, $35,000.

March 22.—Oklahoma, Okla.; scale, 2—; time, 21:00; loss, $15,000.

March 23.—Bedford, Lawrence County, Ind.; scale, 2; time, 20:00; loss in county, $40,000.
Chandler, Warrick County, Ind.; scale, 2; time, 18:40; 1 killed; loss, $70,000 in county.
Bowling Green, Warren County, Ky.; scale, 2; time, 19:45; loss, $20,000.
Henderson, Henderson County, Ky.; scale, 2—; time, 18:30; loss, $75,000 in county.
Murray, Calloway County, Ky.; scale, 2; 1 killed; loss, $30,000.
Archibald, Richland County, La.; scale, 2; time, 16:00; loss, $25,000.
Kelly, Miss.; scale, 3—; time, 15:40; very violent; 5 killed; loss, $130,000.

April 7.—Lacota, Van Buren County, Mich.; scale, 2; loss, $25,000.
South Haven, Mich.; scale, 2—; time, 1:00; loss, $10,000 to $20,000.

April 11.—Parker, Linn County, Kans.; scale, 3—; time, 19:00; loss, $100,000.
Higginsville, 6 miles north, Lafayette County, Mo.; scale, 2+; time, 19:40; 10 killed; loss, $30,000.
St. Louis, Mo.; scale, 2.

April 12.—Rea, Monroe County, Mich.; scale, 2+; time, 19:45; 1 killed; loss, $60,000.
Royal Oak, Oakland County, Mich.; scale, 2+; time, 20:00; 2 killed.
Utica, Macomb County, Mich.; scale, 2; loss, $15,000.
Ypsilanti, Washtenaw County, Mich.; scale, 2+; time, 19:15; loss, $100,000.
Robinsonville, Tunica County, Mich.; scale, 2+; time, 16:00; 16 killed; loss, $25,000.

April 14.—Schriever, Terre Bonne County, La.; scale, 2; time, 14:00; 4 killed; loss, $15,000 to $20,000.

April 18.—Osage City, Osage County, Kans.; scale, 2—; time, 16:30; 3 killed; 32 buildings destroyed; loss, $15,000.

April 19.—Midland City, Dale County, Ala.; scale, 2; loss, $25,000.
Pachuta, Clarke County, Miss.; scale, 3— time, 19:00; 3 killed; loss, $100,000 in region.
Westville, Miss.; scale, 2+; 5 killed; loss, $30,000 or $40,000.

April 21.—South Boston, Va.; scale, 2; time, 14:30; 1 killed; loss, $40,000.
Norman, Cleveland County, Okla.; scale, 3; 32 killed; loss, $100,000 to $200,000.

April 25.—Perkins, Payne County, Okla.; scale, 2—; 4 killed.

April 28.—Cisco, Eastland County, Tex.; scale, 3+; time, 22:00; 399 houses destroyed; 23 killed; loss, $400,000.

May 3.—Oxford, Granville County, N. C.; scale, 2—; time, 16:57; 1 killed; loss, $16,000.
Springfield, Orangeburg County, S. C.; scale, 2—; 1 killed; loss, $13,000.

May 5.—Wilmington, Ohio; scale, 2; time, 16:50; loss, $43,000.

May 23.—Louisville, Ky.; scale, 2; loss, $25,000.
Lima, Ohio; scale, 2—; few minutes before 6; 1 killed.

May 25.—Laddonia, Audrain County, Mo.; scale, 2; time, 18:00; 1 killed; loss, $30,000 in county.

May 31.—Rosedale, Bolivar County, Miss.; scale, 2+; 2 killed; loss, $30,000.

June 21.—Williamstown, Jefferson County, Kans.; scale, 2: time, 19:00; 16 killed; loss, $20,000.
Winfield, Cowley County, Kans.; scale, 2; loss, $25,000.
Conception, Mo.; scale, 2; 4 killed; loss, $30,000.

July 6.—Aurelia, Cherokee County, Iowa; scale, 2; 11 killed; loss, $12,000.
Pomeroy, Calhoun County, Iowa; scale, 3; time, 18:50; 73 killed; loss, $175,000.
Storm Lake, Buena Vista County, Iowa; scale, 2; time, 17:00; 5 killed; loss, $26,000.

July 14.—Stillwater, Minn.; scale, 2—; time, 15:3; 2 killed; loss, $15,000 to $20,000.

July 15.—Kearney, Nebr.; scale, 2—; loss, $10,000.

August 6.—Philadelphia, Pa.; scale, 2; time, 17:00; loss, $75,000.

August 20.—Atlantic Highlands, N. J.; scale, 2—; 2 killed; loss, $50,000.

August 30.—Kernersville, N. C.; scale, 2—; 1 killed; loss, $11,000.

September 7.—Lockport, La.; scale, 2+; 5 killed; loss, $35,000.
Port Jervis, N. Y.; scale, 2—; loss, $20,000.

DEATHS BY VIOLENT WIND.

In 1891 a circular was prepared and sent to some of the largest stations of the Weather Service asking that the newspapers at that station be carefully examined for the names of all persons killed by violent wind or by lightning, in order to obtain a comparison between these, and to get some idea of the total number of deaths from these causes. The following table gives a summary by months of these records of deaths by wind during the years 1890–1893. The deaths by lightning will be found below.

We see that the number of these deaths has greatly increased in 1893; the total (399) is greater than in any two consecutive years previous. The total for March (286) must be regarded as slightly abnormal because of the 141 deaths in the Kentucky and Indiana tornadoes of March 27, 1890. The number in July is also abnormal because of the 73 deaths in the Pomeroy, Iowa, tornado of July 6. We see that in the four years there has been an average of 258 per year.

The total by tornadoes is now a little greater than by lightning, though previously the latter has outnumbered the former.

DEATHS BY VIOLENT WIND.

Year.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1890	.....	.....	160	6	26	27	29	25	.....	.....	.....	.....	273
1891	2	1	10	9	9	35	30	11	1	.....	.....	.....	108
1892	.....	.....	20	38	60	34	31	17	11	9	21	11	252
1893	.....	3	96	174	20	6	83	7	10	.....	.....	.....	399
Total	2	4	286	227	115	102	173	60	22	9	21	11	1,032

LOSS OF LIFE BY LIGHTNING DURING THE YEAR 1893.

Five lives were lost in March, 19 in April, 17 in May, 66 in June, 73 in July, 18 in August, 8 in September, 2 in October, and 1 in December. In all, 209 lives.

The following table shows the loss of life for the past four years:

LOSS OF LIFE BY LIGHTNING, 1890–1893.

Month.	1890.	1891.	1892.	1893.	Month.	1890.	1891.	1892.	1893.
January	.....	.....	.....	.....	August	(12 ?)	34	54	18
February	.....	.....	.....	.....	September	.....	9	15	8
March	2	.....	.....	5	October	.....	.....	6	2
April	6	13	5	19	November	.....	.....	1	.....
May	8	23	27	17	December	.....	.....	2	1
June	37	73	74	66					
July	55	52	67	73	Total	120	204	251	209