The maximum wind velocity for West Indian stations was 38 miles per hour from the northeast at Havana on the 7th; generally, however, light winds prevailed. The rainfall was deficient at both Havana, Cuba, and San Juan, Puerto Rico, the only stations having normal values. It was also light at other places, particularly at Cienfuegos, Cuba.

HUMIDITY.

Average relative humidity and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
	%			%	
New England	75	0	Missouri Valley	75	0
Middle Atlantic	72	— 2	Northern Slope	75	+ 8
South Atlantic	72	— 7	Middle Slope	72	+ 7
Florida Peninsula	79	— 3	Southern Slope	73	+ 6
East Gulf	73	— 5	Southern Plateau	41	— 7
West Gulf	73	0	Middle Plateau	70	+ 3
Ohio Valley and Tennessee	73	— 2	Northern Plateau	81	0
Lower Lake	76	— 2	North Pacific Coast	86	— 2
Upper Lake	82	+ 1	Middle Pacific Coast	84	0
North Dakota	81	+ 2	South Pacific Coast	71	3
Upper Mississippi	77	+ 1			

SUNSHINE AND CLOUDINESS.

The distribution of sunshine is graphically shown on Chart VII, and the numerical values of average daylight cloudiness, both for individual stations and by geographical districts, appear in Table I.

Average cloudiness and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
New England	5.5	—0.3	Missouri Valley	5.6	+0.5
Middle Atlantic	4.9	—0.5	Northern Slope	5.8	+1.2
South Atlantic	4.5	—0.2	Middle Slope	4.9	+0.9
Florida Peninsula	5.3	+0.7	Southern Slope	5.2	+0.8
East Gulf	5.7	+0.5	Southern Plateau	3.4	+0.4
West Gulf	5.2	—0.1	Middle Plateau	5.5	+0.4
Ohio Valley and Tennessee	5.8	—0.3	Northern Plateau	7.1	0 0
Lower Lake	7.6	0.0	North Pacific Coast	7.9	+0.6
Upper Lake	6.7	—0.4	Middle Pacific Coast	5.6	+0.2
North Dakota	4 8	—0.4	South Pacific Coast	4.6	+0.2
Upper Mississippi	5.2	—0.5			

WIND.

The maximum wind velocity at each Weather Bureau station for a period of five minutes is given in Table I, which also gives the altitude of Weather Bureau anemometers above ground.

Following are the velocities of 50 miles and over per hour registered during the month:

Maximum wind velocities.

Stations.	Date.	Velocity.	Direction.	Stations.	Date.	Velocity.	Direction.
Block Island, R. I	24	51	e.	Mount Tamalpais, Cal.	6	76	n.
Buffalo, N. Y	2	50	sw.	Do	15	53	sw.
Do	5	52	sw.	Do	20	50	n.
Do	7	53	sw.	Do	21	58	nw.
Do	12	64	w.	Do	22	70	n.
Do	13	50	sw.	Do	24	61	ne.
Carson City, Nev	11	60	sw.	Do	30	64	sw.
Chicago, Ill	5	50	w.	New York, N. Y	4	50	n.
Do	11	50	sw.	Do	6	54	nw.
Do	12	56	sw.	Do	12	55	s.
Cleveland, Ohio	12	50	s.	Do	13	50	ne.
Do	24	52	w.	Do	24	63	e.
Detroit, Mich	12	50	sw.	Do	30	50	nw.
Fort Canby, Wash	7	76	se.	Northfield, Vt	12	50	s.
Grand Haven, Mich	12	52	sw.	Winnemucca, Nev	15	50	se.
Mount Tamalpais, Cal	5	68	nw.				

ATMOSPHERIC ELECTRICITY.

Numerical statistics relative to auroras and thunderstorms are given in Table VII, which shows the number of stations from which meteorological reports were received, and the number of such stations reporting thunderstorms (T) and auroras (A) in each State and on each day of the month, respectively.

Thunderstorms.—Reports of 167 thunderstorms were received during the current month as against 148 in 1898 and 661 during the preceding month.

The dates on which the number of reports of thunderstorms for the whole country were most numerous were: 10th, 41; 11th, 30; 18th, 27.

Reports were most numerous from: Louisiana, 35; Arkansas, 29; Mississippi, 17.

Auroras.—The evenings on which bright moonlight must have interfered with observations of faint auroras are assumed to be the four preceding and following the date of full moon, viz, 12th to 20th.

Reports were most numerous from Montana and North Dakota, 5; Minnesota, 3.

In Canada.—Auroras were reported as follows: Minnedosa, 8th, 9th, 28th, 29th, 30th. Battleford, 28th, 29th, 31st.

DESCRIPTION OF TABLES AND CHARTS.

By ALFRED J. HENRY, Chief of Division of Meteorological Records.

For description of tables and charts see page 424 of REVIEW for September, 1899.

TABLE 1.—*Climatological data for Weather Bureau Stations, December*, 1899.

Stations.	Elevation of instruments.			Pressure, in inches.			Temperature of the air, in degrees Fahrenheit.											Precipitation, in inches.			Wind.									
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Mean actual, 8 a. m. and 8 p. m. + c.	Mean reduced.	Departure from normal.	Mean max. and min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Total.	Departure from normal.	Days with .01, or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.
New England.							34.2	+ 2.6										75	1.87	− 1.8										5.5	
Eastport	76	69	74	29.95	30.04	+ .07	30.2	+ 4.7	53	19	36	4	31	24	25	28	24	78	3.42	− 0.6	17	9,726	w.	46	se.	15	7	9	15	6.7	9.2
Portland, Me	103	81	89	29.91	30.02	.00	32.1	+ 4.7	54	13	38	5	31	26	22	28	23	73	2.84	− 0.7	9	5,944	w.	39	s.	12	7	10	14	6.2	3.8
Northfield	872	15	65	29.05	30.05	.00	28.9	+ 2.5	57	12	32	− 8	31	16	37	21	18	80	2.31	− 0.8	13	6,948	s.	50	s.	12	0	16	15	7.7	13.7
Boston	125	115	181	29.92	30.06	+ .02	36.2	+ 5.1	66	12	43	5	31	29	28	32	26	69	1.52	− 2.0	6	8,422	w.	42	s.	12	14	7	10	5.0	T.
Nantucket	14	43	54	30.06	30.07	+ .02	37.4	+ 1.0	55	12	43	8	31	32	24	34	30	74	1.08	− 3.2	15	8,962	nw.	41	se.	24	8	8	15	6.1	1.7
Woods Hole	22	11	57	30.05	30.07	+ .03	37.4	+ 2.3	58	12	42	10	31	32	23	34	30	78	1.52	− 2.0	9	12,326	nw.	48	s.	12	14	7	10	4.6	1.0
Vineyard Haven	.....	20	55	.....	.....	.....	38.3	+ 0.7	61	12	45	10	31	32	26	.....	.....	.....	1.57	− 2.2	12	7,284	w.	30	w.	4	11	16	4	4.7	2.1
Block Island	27	11	70	30.04	30.07	+ .02	37.8	+ 1.6	60	12	43	11	31	32	26	35	29	70	1.46	− 2.2	10	13,693	w.	51	e.	24	12	9	10	4.7	0.9
Narragansett	.....	10	.....	.....	.....	.....	34.9	− 2.1	58	12	43	4	31	27	31	.....	.....	.....	1.40	− 2.3	6	.....	nw.	.....	.....	.....	19	5	7	.....	T.
New Haven	107	117	140	29.96	30.08	.00	34.0	+ 1.8	59	12	41	6	31	27	23	30	26	76	1.56	− 1.8	6	6,753	nw.	44	s.	12	16	10	5	4.0	T.
Mid. Atlan. States.							37.0	+ 0.2										72	1.55	− 1.7										4.9	
Albany	97	84	113	29.96	30.07	.00	32.3	+ 3.7	61	12	39	2	30	26	24	29	25	78	1.55	− 1.2	9	5,913	s.	46	e.	24	6	9	16	7.1	2.2
Binghamton	875	79	90	.....	.....	.....	30.6	+ 2.1	61	12	38	− 1	30	23	27	.....	.....	.....	2.02	− 0.8	11	6,149	w.	36	s.	12	3	8	20	7.4	1.0
New York	314	108	346	29.75	30.10	+ .01	36.4	+ 2.0	60	11	43	8	30	30	25	33	29	75	1.37	− 1.9	8	12,846	nw.	64	nw.	15	10	13	8	4.9	0.2
Harrisburg	377	94	104	.....	.....	.....	34.3	− 0.1	62	12	40	7	31	28	21	.....	.....	.....	1.83	− 1.2	9	6,693	w.	36	nw.	15	8	13	10	5.7	0.4
Philadelphia	117	168	184	29.99	30.12	.00	37.5	+ 2.0	65	11	44	8	31	31	22	33	27	69	1.41	− 1.3	7	7,583	nw.	38	s.	12	14	10	7	4.4	0.5
Atlantic City	52	68	76	30.05	30.11	+ .02	36.9	+ 0.5	58	13	44	8	31	30	27	34	30	78	1.35	− 2.5	6	8,606	nw.	43	se.	24	11	17	3	4.2	0.3
Cape May	17	47	51	30.12	30.14	.....	38.6	+ 0.7	58	13	45	12	31	33	23	36	.....	.....	1.61	− 2.7	6	7,424	nw.	40	se.	24	10	13	8	4.6	T.
Baltimore	123	68	82	29.97	30.11	− .01	37.4	− 0.1	67	12	45	9	31	30	26	32	26	67	1.40	− 1.8	7	4,036	w.	24	w.	24	15	9	7	4.5	0.7
Washington	112	59	76	30.01	30.13	− .01	36.2	0.0	67	12	46	3	31	26	33	31	25	69	1.68	− 1.3	9	5,353	nw.	36	nw.	15	21	5	5	3.4	1.8
Cape Henry	.....	5	34	.....	.....	.....	43.4	− 0.5	69	19	51	12	31	36	24	.....	.....	.....	1.36	− 2.5	7	9,874	sw.	46	n.	19	10	17	4	5.1	0.2
Lynchburg	685	83	88	29.37	30.14	.00	37.9	− 1.4	65	11	48	7	31	28	35	32	26	68	1.74	− 1.3	5	3,369	nw.	28	se.	11	17	6	8	4.2	0.7
Norfolk	92	102	111	30.05	30.15	+ .03	42.9	+ 0.1	68	11	51	11	31	35	26	38	34	76	1.24	− 2.4	7	6,866	n.	36	s.	12	14	13	4	4.1	0.3
Richmond	144	98	105	.....	.....	.....	40.2	.....	68	11	49	4	31	31	27	.....	.....	.....	2.33	.....	9	4,714	n.	30	n.	19	16	10	5	3.8	2.1
S. Atlantic States.							47.2	− 1.5										72	2.14	− 1.4										4.5	
Charlotte	773	68	76	29.30	30.15	+ .01	41.2	− 2.4	66	11	50	12	30	32	29	35	27	63	2.38	− 1.7	10	5,439	ne.	36	se.	11	16	2	13	4.7	T.
Hatteras	11	17	36	30.12	30.13	+ .02	48.4	+ 0.2	70	12	53	19	30	43	25	45	41	78	3.47	− 2.0	9	10,535	n.	44	n	19	17	10	4	3.7	T.
Kittyhawk	9	12	30	.....	.....	.....	46.0	− 0.2	68	14	52	12	31	40	22	.....	.....	.....	2.47	− 1.7	4	10,261	.....	.....	.....	.....	20	8	3	3.0	
Raleigh	375	93	101	29.75	30.16	− .01	41.8	− 2.1	69	11	51	9	31	32	29	35	29	67	2.02	− 0.7	9	4,724	n.	26	sw.	12	18	6	7	3.7	0.1
Wilmington	78	82	90	30.07	30.16	+ .03	46.5	− 1.8	72	19	56	16	30	37	28	40	36	74	1.41	− 1.6	7	5,980	w.	32	sw.	12	15	12	4	3.5	T.
Charleston	48	14	92	30.12	30.17	+ .04	51.3	− 0.2	73	19	59	24	30	43	25	44	39	70	0.85	− 2.4	8	7,971	n.	31	ne.	20	9	14	8	5.2	0.5
Columbia	.....	5	.....	.....	.....	.....	45.2	− 3.3	73	19	56	17	30	34	41	.....	.....	.....	3.01	+ 0.1	9	.....	n.	.....	.....	.....	10	14	7	5.1	0.4
Augusta	180	89	103	29.96	30.15	+ .02	45.4	− 2.3	71	19	55	21	30	36	33	39	35	72	1.80	− 1.6	10	5,140	w.	30	w.	25	14	9	8	4.5	1.4
Savannah	65	79	89	30.08	30.15	.00	50.9	− 1.5	77	19	60	27	30	42	28	44	38	70	1.62	− 1.6	7	6,033	n.	30	sw.	12	10	11	10	5.1	T.
Jacksonville	43	69	84	30.09	30.14	+ .03	54.9	− 1.1	76	14	63	30	30	47	26	49	46	80	2.35	− 0.5	11	5,900	ne.	35	w.	25	8	11	12	6.2	
Florida Peninsula.							56.4	+ 0.2										79	2.23	0.0										5.3	
Jupiter	28	13	30	30.05	30.06	− .04	67.0	+ 0.3	78	12	73	40	30	61	24	61	59	79	2.97	+ 0.3	13	8,472	e.	30	se.	11	7	20	4	5.2	
Key West	22	43	50	30.06	30.08	+ .01	71.0	+ 1.0	80	12	75	55	30	67	15	65	63	78	1.53	− 0.1	6	9,615	ne.	33	nw.	24	9	19	3	4.5	
Tampa	36	60	67	30.06	30.10	+ .02	61.1	− 0.8	80	11	70	34	30	52	25	55	52	80	2.18	− 0.2	9	5,168	ne.	27	se.	11	5	14	12	6.1	
East Gulf States.							50.4	− 1.3										73	5.02	+ 0.7										5.7	
Atlanta	1,174	139	156	28.89	30.17	.00	42.0	− 3.3	65	14	50	16	30	34	24	36	30	68	4.15	0.0	10	9,281	nw.	36	nw.	3	11	7	13	5.5	T.
Macon	370	93	99	.....	.....	.....	45.4	.....	70	1	55	22	30	36	34	.....	.....	.....	3.45	.....	10	5,273	nw.	30	se.	11	5	15	11	5.9	4.0
Pensacola	56	78	90	.....	.....	.....	53.2	− 1.3	71	11	61	30	29	46	23	.....	.....	..	6.05	+ 2.2	12	8,081	ne.	42	se.	11	13	4	14	5.5	
Mobile	57	88	96	30.08	30.14	+ .01	51.8	− 0.6	74	19	60	30	16	43	27	46	42	76	4.27	− 0.2	13	5,980	n.	29	sw	11	14	3	14	5.7	T.
Montgomery	221	100	112	29.91	30.15	.00	47.4	− 2.2	72	14	56	26	31	38	33	42	37	72	4.09	− 0.6	11	4,963	e.	27	nw.	3	11	5	15	5.5	3.5
Meridian	375	84	93	.....	.....	.....	45.6	− 4.9	72	14	55	22	6	36	38	.....	.....	.....	6.51	+ 1.6	13	5,054	ne.	28	w.	4	11	5	15	6.0	2.0
Vicksburg	247	65	73	29.84	30.12	− .03	48.6	− 2.0	73	9	57	26	16	40	29	43	38	70	8.85	+ 3.9	13	6,248	se.	28	w.	11	11	9	11	5.5	1.2
New Orleans	54	112	120	30.07	30.13	+ .03	54.6	− 0.9	78	9	62	32	16	47	28	49	45	78	2.79	− 1.6	13	6,986	n.	36	w.	3	6	12	13	6.2	
Port Eads	.....	27	...	.....	.....	.....	60.4	+ 0.9	77	10	68	41	25	53	24	.....	.....	.....	3.49	0.0	10	.....	e.	.....	.....	...	10	7	14	.....	
West Gulf States.							49.3	− 2.1										73	3.78	+ 0.5										5.2	
Shreveport	249	77	84	29.87	30.14	+ .01	48.8	− 0.7	72	9	58	25	16	39	33	42	35	65	3.52	− 1.2	13	5,793	se.	26	nw.	3	12	8	11	5.2	
Fort Smith	457	74	82	29.64	30.15	+ .02	40.4	− 2.4	71	2	48	19	15	32	35	35	29	70	3.65	+ 0.5	9	6,003	e.	31	sw.	3	11	7	13	5.8	1.5
Little Rock	357	93	100	29.77	30.17	+ .03	41.0	− 4.0	65	9	49	19	16	33	29	36	32	72	4.64	+ 0.3	8	6,116	ne.	34	nw.	1	11	9	11	5.7	3.2
Corpus Christi	20	42	50	30.09	30.11	+ .01	56.4	− 2.9	74	*	63	36	15	50	28	52	49	80	1.87	+ 0.6	7	7,791	n.	33	n.	3	11	8	12	5.2	
Fort Worth	670	106	114	.....	.....	.....	46.2	.....	78	18	56	25	14	37	39	.....	.....	.....	1.98	.....	7	8,018	nw.	30	s.	18	[d]14	[d]4	[d]9	[d]5.0	
Galveston	54	84	88	30.04	30.09	− .01	55.8	− 1.3	70	10	61	38	29	50	22	52	48	80	4.87	+ 0.9	15	8,234	e.	33	w.	11	13	4	14	5.6	
Palestine	510	54	61	29.59	30.15	+ .03	49.2	− 2.2	73	13	58	26	15	40	34	43	38	71	4.51	+ 0.7	11	5,574	ne.	26	sw.	12	14	4	13	5.3	
San Antonio	704	95	104	29.36	30.12	+ .01	53.6	− 1.3	76	13	64	30	15	44	33	46	41	71	3.39	+ 1.5	7	6,675	n.	45	n.	3	16	8	7	4.1	
Ohio Val. & Tenn.							35.4	− 2.9										73	3.45	− 0.1										5.3	
Chattanooga	762	106	112	29.35	30.20	+ .04	40.4	− 3.2	63	11	48	14	30	32	29	35	29	70	6.11	+ 1.8	13	6,038	nw.	35	w.	14	12	10	9	5.3	0.1
Knoxville	1,004	10	88	29.08	30.19	+ .01	37.8	− 2.1	67	11	46	9	31	30	30	33	28	74	2.70	− 1.4	11	6,008	sw.	47	sw.	11	12	5	14	5.8	0.5
Memphis	399	140	154	29.73	30.18	+ .03	42.0	− 1.6	63	8	49	20	30	34	24	35	28	64	4.05	− 0.1	10	8,697	n.	39	sw.	11	7	11	13	6.3	
Nashville	545	128	134	29.58	30.18	+ .04	38.0	− 3.7	64	11	46	12	31	30	29	34	29	74	4.64	+ 0.9	11	5,845	nw.	40	se.	11	11	6	14	5.5	1.0
Lexington	990	75	102	.....	.....	.....	33.4	− 4.7	62	11	41	− 1	31	26	25	.....	.....	.....	2.92	− 0.5	12	9,097	w.	46	sw.	12	9	7	15	6.2	4.5
Louisville	525	114	136	29.56	30.16	+ .01	35.2	− 3.2	64	11	43	5	30	28	26	31	27	76	4.07	+ 0.2	12	7,206	sw.	44	sw.	12	11	8	12	5.5	2.3
Evansville	434	72	82	.....	.....	.....	34.9	.....	62	11	42	6	30	28	24	.....	.....	.....	3.63	.....	11	6,443	nw.	37	sw.	11	13	6	12	4.8	0.6
Indianapolis	823	154	164	29.20	30.12	.00	29.8	− 3.3	59	11	37	0	30	23	24	26	21	70	2.77	− 0.4	8	9,467	nw.	46	sw.	12	8	7	16	6.2	6.9
Cincinnati	628	152	157	29.44	30.14	.00	33.2	− 3.4	61	11	41	2	31	26	25	30	25	72	2.93	− 0.2	10	6,988	sw.	37	sw.	12	13	5	13	5.2	2.2
Columbus	824	87	100	29.19	30.11	− .01	31.1	− 2.2	63	11	38	1	31	24	24	28	24	79	2.98	+ 0.1	12	6,793	sw.	48	sw.	12	7	9	15	6.3	2.1
Pittsburg	842	116	123	29.15	30.09	− .03	33.8	− 1.2	65	12	41	5	31	27	27	30	26	76	2.24	− 0.6	12	5,434	nw.	26	se.	11	7	10	14	6.3	1.6
Parkersburg	638	77	84	29.44	30.16	− .01	34.3	− 2.8	68	11	42	2	31	26	27	30	26	77	2.53	− 0.7	13	5,162	s.	32	w.	24	12	8	16	6.0	1.0
Elkins	1,940	41	50	.....	.....	.....	30.6	.....	63	12	42	0	31	20	38	.....	.....	.....	3.64	.....	16	4,428	w.	32	s.	11	9	8	14	6.1	10.1
Lower Lake Region.							30.3	− 0.2										76	3.55	+ 0.7										7.6	
Buffalo	768	178	206	29.15	30.01	− .04	31.1	+ 1.3	63	12	36	3	30	26	26	28	22	71	5.00	+ 1.7	17	14,514	w.	64	w.	12	0	13	18	7.8	28.7
Oswego	335	76	87	29.63	30.01	− .04	30.4	+ 1.0	62	12	37	1	30	24	24	27	24	78	5.96	+ 2.6	21	10,371	se.	42	se.	12	3	7	21	7.9	30.7
Rochester	523	81	90	29.42	30.01	− .04	29.8	+ 1.2	62	12	36	2	30	24	26	27	22	75	3.78	+ 0.9	21	6,806	sw.	37	sw.	12	2	9	20	8.2	21.5
Erie	714	92	102	29.24	30.04	− .02	31.8	− 0.6	62	12	37	4	31	26	26	29	25	80	4.22	+ 1.0	18	11,667	sw.	39	s.	11	1	7	23	8.2	22.4
Cleveland	762	190	201	29.20	30.06	− .02	30.8	− 0.4	62	11	38	4	31	24	25	27	22	71	2.85	+ 0.2	15	13,937	sw.	52	w.	24	4	8	19	7.4	15.4
Sandusky	629	62	74	29.35	30.07	− .02	30.4	− 2.1	63	11	37	2	30	24	22	27	22	74	1.94	− 0.5	13	7,412	sw.	30	nw.	13	3	5	23	7.9	6.4
Toledo	628	123	128	29.35	30.06	− .02	29.4	− 1.3	60	11	36	− 1	30	23	23	26	22	77	2.31	− 0.1	14	8,699	sw.	42	sw.	12	7	8	16	6.5	6.5
Detroit	730	160	166	29.21	30.04	− .03	28.6	− 0.9	59	11	34	0	30	23	23	26	22	78	2.30	− 0.3	12	9,384	sw.	50	sw.	12	5	11	15	7.0	4.0
Upper Lake Region.							24.4	− 0.1										82	2.29	+ 0.1										6.7	
Alpena	609	61	65	29.27	29.96	− .07	25.2	+ 0.4	50	12	31	− 7	30	20	24	23	20	83	1.94	− 0.5	17	8,872	nw.	36	sw.	12	3	4	24	8.1	7.3
Escanaba	612	43	57	29.28	29.98	− .05	23.0	+ 1.6	46	21	30	− 4	30	16	30	20	17	81	1.04	− 0.9	6	8,151	w.	35	n.	11	10	7	14	6.1	0.4
Grand Haven	628	55	64	29.29	30.00	− .04	29.8	+ 0.2	57	11	35	4	30	25	23	28	26	86	3.34	+ 0.7	17	10,215	nw.	52	sw.	12	5	2	24	7.8	10.2
Marquette	734	67	95	29.10	29.94	− .09	23.1	+ 0.3	50	21	28	− 2	31	18	27	21	19	90	4.41	+ 2.0	20	9,505	w.	33	ne.	12	3	6	22	8.2	40.8
Port Huron	639	70	108	29.31	30.04	− .02	27.3	− 0.5	59	11	32	− 2	30	22	21	26	23	86	2.35	0.0	14	9,770	s.	48	sw.	12	10	3	18	6.7	7.3
Sault Ste. Marie	614	40	61	29.23	29.93	− .07	19.8	− 2.8	43	23	27	−17	30	13	35	19	17	88	3.08	+ 1.0	14	7,332	se.	42	nw.	19	2	9	20	7.8	11.0
Chicago	824	241	274	29.15	30.08	+ .01	27.2	− 2.1	56	11	34	− 3	30	21	22	25	21	78	1.81	− 0.5	9	13,758	w.	56	sw.	12	7	11	13	6.3	3.5
Milwaukee	681	124	142	29.28	30.05	− .02	26.3	+ 0.7	49	10	32	− 3	30	20	25	23	17	69	2.25	+ 0.3	10	9,219	w.	36	sw.	11	12	6	13	5.3	6.1
Green Bay	617	49	57	29.33	30.04	− .02	23.2	− 0.6	45	8	29	− 6	30	18	21	20	16	77	1.54	− 1.0	7	7,625	w.	30	nw.	24	11	10	10	5.5	2.6
Duluth	702	95	106	29.24	30.05	− .03	19.2	+ 1.4	48	23	26	−13	30	13	35	16	13	79	1.18	− 0.2	11	7,852	nw.	40	nw.	29	14	11	6	4.8	5.7
North Dakota.							13.5	+ 0.3										81	0.63	0.0										4.3	
Moorhead	935	54	60	29.06	30.16	+ .01	13.6	+ 1.7	46	23	22	−16	30	5	36	12	10	89	0.50	− 0.2	5	7,488	nw.	36	nw.	24	14	10	7	4.3	5.1
Bismarck	1,674	16	29	28.32	30.23	+ .09	14.2	− 0.5	51	1	24	−21	31	4	33	11	6	71	0.64	0.0	7	5,598	nw.	36	nw.	23	14	5	12	5.3	6.1
Williston	1,872	15	31	28.09	30.22	+ .05	12.8	− 0.2	47	1	23	−22	31	3	37	11	8	82	0.76	+ 0.1	9	5,809	n.	36	nw.	22	17	6	8	4.9	7.6

TABLE I.—*Climatological data for Weather Bureau Stations, December*, 1899—Continued.

Stations.	Elevation of instruments.			Pressure, in inches.			Temperature of the air, in degrees Fahrenheit.												Precipitation, in inches.			Wind.									
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Mean actual, 8 a. m. and 8 p. m. ÷ 2.	Mean reduced.	Departure from normal.	Mean max. and min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Total.	Departure from normal.	Days with .01, or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.
Upper Miss. Valley.							26.7	− 1.7										77	1.97	− 0.1										5.2	
Minneapolis	.....	99	208	.....	.....	.....	21.4	+ 1.3	51	23	28	− 9	30	14	35	....	....	....	1.37	− 1.0	6	9,728	nw.	45	nw.	23	7	12	12	....	1.9
St. Paul	837	114	124	29.13	30.09	− .02	21.2	+ 2.4	50	23	28	− 8	30	15	32	18	14	77	1.35	+ 0.1	7	7,148	nw.	40	nw.	24	8	12	11	5.8	1.6
La Crosse	720	70	78	.....	.....	.....	20.2	− 3.4	50	7	27	− 8	30	13	38	....	....	....	2.08	+ 0.6	8	5,949	s.	32	nw.	24	14	8	9	4.8	16.7
Davenport	606	71	79	29.42	30.11	− .01	25.8	− 2.0	52	11	33	− 3	30	19	28	23	19	79	2.68	+ 1.0	10	6,354	w.	30	nw.	24	14	9	8	4.7	1.8
Des Moines	867	84	88	29.19	30.18	+ .04	23.6	− 3.2	52	1	32	− 5	31	15	36	21	17	78	2.12	+ 0.7	9	5,843	nw.	27	n.	11	8	9	14	6.2	10.2
Dubuque	608	101	109	29.31	30.11	+ .01	23.5	− 2.4	48	8	30	− 5	30	17	27	21	19	85	1.85	0.0	7	6,466	nw.	42	nw.	24	10	11	10	5.2	3.5
Keokuk	614	63	78	29.45	30.14	+ .02	28.4	− 1.4	56	10	36	− 2	31	21	32	25	20	78	1.67	− 0.3	9	6,503	nw.	34	sw.	5	14	8	9	4.5	2.5
Cairo	359	87	93	29.77	30.17	+ .04	36.4	− 2.8	61	11	44	11	31	29	25	32	28	77	3.84	+ 0.5	12	7,177	nw.	42	sw.	12	6	15	10	6.0	1.5
Springfield, Ill.	644	82	92	29.42	30.14	+ .01	30.6	− 2.2	56	11	38	0	31	23	28	26	21	75	1.87	− 0.9	9	8,105	nw.	32	nw.	24	10	11	10	5.1	4.7
Hannibal	534	75	110	.....	.....	.....	29.7	− 2.2	59	10	38	2	31	21	32	....	....	....	1.26	− 0.3	12	7,392	nw.	35	sw.	5	14	8	9	4.4	3.6
St. Louis	567	111	210	29.52	30.16	+ .08	33.0	− 2.6	60	2	40	6	31	26	25	29	24	70	1.55	− 1.3	12	8,276	w.	38	sw.	11	9	12	10	5.7	6.1
Missouri Valley.							25.7	− 3.1										75	1.20	0.0										5.6	
Columbia	783	4	84	.....	.....	.....	28.8	− 6.3	61	10	39	− 6	15	18	33	....	....	....	2.29	+ 0.3	16	6,371	nw.	33	nw.	3	7	8	16	6.3	13.4
Kansas City	963	78	95	29.11	30.19	+ .03	30.2	− 1.7	56	1	37	8	30	23	31	27	22	74	1.33	− 0.2	12	6,239	nw.	32	nw.	11	8	10	13	5.7	3.9
Springfield, Mo.	1,324	100	103	28.70	30.17	+ .05	32.6	− 6.0	62	2	40	− 1	15	25	30	29	25	76	1.86	− 1.0	9	8,008	nw.	31	se.	9	9	13	9	5.6	4.8
Topeka	.....	81	....	.....	.....	.....	30.3	− 4.5	60	1	38	6	15	22	33	....	....	....	0.92	0.0	12	.....	n.	....	.....	...	8	13	10	5.8	2.0
Lincoln	1,199	75	84	28.83	30.19	+ .04	25.8	− 4.6	56	1	34	2	30	18	34	22	19	77	1.31	+ 0.6	9	7,589	n.	40	n.	3	9	10	12	5.6	3.1
Omaha	1,105	115	121	28.92	30.17	.00	25.7	− 1.0	54	23	33	0	30	18	29	23	19	79	1.29	+ 0.3	6	6,783	sw.	35	n.	3	8	9	14	6.1	1.5
Sioux City	1,139	96	164	.....	.....	.....	23 0	− 1.1	56	23	31	− 5	30	15	33	....	....	....	1.27	+ 0.1	5	8,501	nw.	40	nw	3	10	9	12	5.5	1.1
Pierre	1,572	11	19	28.43	30.21	+ .04	20.3	− 4.4	59	1	29	− 5	30	11	32	16	10	68	0.41	0.0	6	5.592	nw.	44	nw.	31	10	11	10	5.5	3.9
Huron	1,306	56	67	28.70	30.20	+ .02	17.0	− 2.2	59	1	30	−18	31	5	44	13	8	77	0.19	− 0.4	6	7,027	nw.	41	nw.	23	16	7	8	4.5	1.5
Yankton	1,234	52	58	.....	.....	.....	23.0	+ 0.5	58	20	33	− 7	30	13	39	....	....	....	1.08	+ 0.3	6	5,977	nw.	36	s.	8	9	12	10	5.5	4.3
Northern Slope.							24.0	− 0.9										75	0.65	+ 0.2										5.8	
Havre	2,494	46	47	27.38	30.13	− .02	20.8	+ 0.2	54	7	29	−24	17	13	45	19	16	83	1.33	+ 0.8	11	8.789	sw.	42	sw.	20	6	12	13	6.5	8.3
Miles City	2,371	42	50	27.53	30.16	.00	21.4	+ 2.1	56	1	30	−12	17	12	36	19	18	97	0.35	0.0	5	3,883	s.	30	nw.	2	16	9	6	4.2	2.3
Helena	4,108	88	93	25.85	30.22	+ .05	25.6	+ 0.3	53	24	32	−10	16	19	34	22	16	69	0.62	− 0.3	8	4,863	sw.	40	sw.	25	3	9	19	7.3	10.2
Kalispell	2,964	45	51	26.97	30.18	.....	26.2	.....	50	24	32	0	18	20	23	25	22	86	1.75	.....	15	3,328	nw.	25	sw.	21	1	8	22	8.3	14.0
Rapid City	3,251	46	50	26.61	30.15	− .02	23.8	− 6.4	58	1	34	−11	18	14	37	20	16	77	0.81	+ 0.6	10	4,741	nw.	36	nw.	2	11	9	11	5.4	8 8
Cheyenne	6,084	56	64	23.96	30.22	+ .07	29.4	+ 0.9	58	29	41	4	15	18	37	23	8	47	0.18	− 0.1	4	9,135	nw.	48	nw.	2	13	11	7	4.7	1.8
Lander	5,372	28	36	24.66	30.30	+ .13	19.8	− 3.6	56	1	34	−11	21	6	44	15	10	72	0.94	+ 0.5	2	2,285	sw.	22	se.	2	10	18	3	4.5	9.4
North Platte	2,826	43	52	27.13	30.23	+ .06	27.5	+ 0.4	62	1	40	2	14	15	44	21	16	71	0.32	− 0.2	8	5,426	w.	36	nw.	23	10	14	7	5.1	4.4
Middle Slope.							32.3	− 2.6										72	1.21	+ 0.3										4.9	
Denver	5,290	79	151	24.71	30.24	+ .08	30.3	− 1.7	61	1	43	− 5	15	18	42	24	13	55	0.72	+ 0.1	6	6,802	s.	47	nw.	1	18	9	4	3.2	10.9
Pueblo	4,682	80	86	25.31	30.21	+ .10	29.6	− 4.1	66	1	43	−14	15	16	54	24	18	66	1.06	+ 0.5	3	4,717	nw.	46	n.	2	18	8	5	4.3	12.2
Concordia	1,398	42	47	28.63	30.20	+ .07	30.4	− 2.6	60	1	38	10	15	23	35	26	22	79	1.36	+ 0.9	7	5,084	s.	27	n.	3	11	9	11	5.3	3.2
Dodge	2,504	44	52	27.46	30.19	+ .05	32.6	0.0	67	2	43	− 3	14	22	38	27	24	80	0.62	0.0	6	6,545	nw.	34	n.	2	9	10	12	6.1	5.9
Wichita	1,351	78	85	28.69	30.19	+ .08	33.3	− 4.6	65	2	42	4	15	25	30	28	25	79	1.81	+ 0.9	8	6,306	n.	30	nw.	2	13	8	10	5.0	9.7
Oklahoma	1,218	54	62	28.82	30.17	+ .06	37.6	− 2.9	65	2	46	16	14	29	28	33	29	75	1.71	− 0.7	7	8,368	n.	37	n.	2	14	3	14	5.3	3.5
Southern Slope.							40.2	− 1.6										73	2.17	+ 1.0										5.2	
Abilene	1,749	45	54	28.28	30.17	+ .02	44.5	− 3.0	78	2	54	24	29	35	32	38	33	73	3.24	+ 1.8	7	6,843	nw.	36	nw.	2	11	13	7	5.2	2.0
Amarillo	3,691	54	61	26.29	30.16	+ .05	36.0	− 0.3	67	2	46	11	14	26	33	31	26	73	1.11	+ 0.3	3	4,752	n.	36	n.	2	12	8	11	5.2	5.4
Southern Plateau.							46.1	+ 1.1										41	0.20	− 0.8										3.4	
El Paso	3,767	10	110	26.24	30.15	+ .04	44.9	− 1.2	74	2	57	22	22	33	40	34	21	48	0.21	− 0.3	4	7,823	nw.	48	ne.	19	11	14	6	4.7	1.5
Santa Fe	6,998	47	50	23.25	30.17	+ .05	32.7	+ 1.9	51	26	42	8	14	24	25	24	10	45	0.13	− 0.7	5	4,615	ne.	29	nw.	31	17	10	4	3.4	1.3
Flagstaff	6,885	12	25	23.36	30.22	.....	32.4	.....	62	1	46	− 1	21	19	45	28	....	....	0.99	.....	4	.....	e.	...	.....	...	9	13	9	....	....
Phenix	1,076	47	57	28.89	30.04	− .05	53.0	+ 0.4	75	6	67	28	14	39	39	41	26	38	0.08	− 1.0	2	2,456	e.	23	nw.	9	17	8	6	3.7	
Yuma	141	16	50	29.87	30.02	− .01	56.6	+ 0.6	77	1	69	35	11	44	35	43	26	34	T.	− 0.5	0	5.550	n.	40	n.	6	20	8	3	2.5	
Independence	3,907	51	58	26.07	30.12	+ .02	43.1	+ 3.8	67	24	54	21	20	32	29	34	18	39	0 56	− 1.4	4	6,147	nw.	33	n.	8	21	9	1	2.5	0.4
Middle Plateau.							29.9	− 2.9										70	0.79	− 0.9										5.5	
Carson City	4,720	82	92	25.36	30.26	+ .13	32.8	− 1.9	63	1	43	13	7	22	43	29	25	78	1.22	− 1.0	6	4,606	sw.	60	sw.	11	1	12	18	7.2	8.0
Winnemucca	4,340	59	70	25.79	30.32	+ .13	27.6	− 3.5	60	1	38	2	20	18	40	25	20	72	0.53	− 0.8	9	6,432	ne.	50	se.	15	9	9	13	6.2	4.3
Cedar City	5,850	36	47	24.32	30.28	.....	31.8	.....	63	1	42	7	14	22	35	26	17	60	1.18	.....	7	3,465	se.	34	sw.	15	17	3	11	4.3	12.4
Salt Lake City	4,360	105	110	25.77	30.35	+ .13	29.4	− 3.4	59	1	37	9	21	22	24	26	20	73	0.61	− 1.0	11	2,779	se.	36	n.	2	11	9	11	5.5	5.4
Grand Junction	4,608	43	50	25.51	30.40	.....	22.8	.....	50	1	34	0	15	12	32	18	12	69	0.76	.....	5	2,633	nw.	20	se.	29	14	6	11	4.4	8.1
Northern Plateau.							29.9	− 0.9										81	1.61	− 0.4										7.1	
Baker City	3,470	49	55	26.55	30.29	+ .12	24.4	− 4.1	50	1	31	6	14	18	22	22	18	77	1.64	− 0.1	10	4,012	s.	21	ne.	1	2	11	18	7.3	15.9
Boise	2,736	61	68	27.35	30.32	+ .09	30.1	− 3.1	53	1	37	7	20	23	26	28	24	79	0.82	− 1.1	8	3,106	se.	24	se.	15	7	10	14	6.5	6.6
Pocatello	4,482	48	56	25.61	30.34	+ .12	24.2	+ 1.2	52	1	33	− 2	21	16	32	22	19	78	1.32	− 0.2	9	8,172	s.	48	s.	15	10	4	17	6.4	11.9
Spokane	1,943	99	107	28.04	30.16	+ .04	33.2	+ 1.9	50	23	38	13	19	28	18	32	29	83	1.77	− 0.8	14	4,078	sw.	30	sw.	11	1	6	24	8 8	8.4
Walla Walla	1,018	65	73	29.03	30.16	+ .07	37.4	− 0.3	63	23	43	9	19	32	24	35	34	88	2.51	+ 0.3	12	3,927	s.	30	sw.	11	1	17	13	6.4	9.1
N. Pac. Coast Reg.							43.4	+ 1.5										86	7.25	0.0										7.9	
Fort Canby ‡	179	10	34	29.75	29.95	− .01	44.8	+ 1.0	55	7	48	35	15	41	11	43	41	86	7.55	+ 2.2	14	5,750	e.	76	se.	7	2	2	12	7.7	
Neah	50	7	24	.....	.....	.....	.....	.....	...	...	...	...	...	...	...	....	....	....	.....	.....	...	.....	...	...	.....	...	...	...	...	...	....
Port Crescent	256	15	20	.....	.....	.....	40.8	+ 1.4	60	22	46	27	16	35	21	....	....	....	6.11	− 0.8	23	2,549	sw.	22	sw.	21	0	13	18	8.1	T.
Seattle	119	114	121	29.93	30.06	+ .03	44.1	+ 2.3	58	23	48	31	19	40	14	42	39	84	3.90	− 1.6	21	4,906	se.	27	s.	11	0	5	26	8.9	0.1
Tacoma	213	113	120	.....	.....	.....	42.7	+ 1.8	56	22	47	28	19	38	19	....	....	....	7.05	− 0.3	24	4,869	sw.	29	sw.	7	0	4	27	9.0	
Astoria	.....	18	....	.....	.....	.....	45.9	+ 1.9	58	21	51	33	19	41	18	....	....	....	13.30	+ 2.1	26	.....	e.	....	.....	...	1	3	27	....	
Portland, Oreg	153	203	213	29.93	30.10	+ .02	43.1	+ 1.8	58	23	48	30	28	38	16	41	39	84	5.91	− 1.9	21	6,357	se.	44	s.	1	2	9	20	7.8	
Roseburg	521	56	67	29.52	30.10	− .01	42.6	+ 0.6	59	21	48	27	19	37	20	41	39	89	6.92	+ 0.5	19	2,148	se.	22	sw.	11	7	11	13	6.1	1.6
Mid. Pac. C'st Reg.							47.6	− 0.9										84	4.02	− 1.6										5.6	
Eureka	64	60	69	30.08	30.14	+ .07	48.0	+ 0.2	61	1	54	33	19	42	22	46	44	86	7.05	− 1.1	14	3,739	se.	39	se.	7	7	10	14	6.2	
Mount Tamalpais	2,375	11	18	27.62	30.12	.....	47.7	.....	64	23	52	34	17	43	18	45	41	80	4.65	.....	13	17,782	ne.	76	n.	6	16	4	11	4.6	
Red Bluff	334	54	58	29.78	30.14	+ .02	45.5	− 1.2	70	22	52	27	24	38	28	42	39	83	3.80	− 1.5	13	3,891	se.	34	se.	15	8	14	9	5.7	
Sacramento	71	106	117	30.07	30.15	+ .04	43.9	− 3.2	58	11	48	31	18	39	18	42	40	87	2.91	− 1.2	10	5,401	s.	38	s.	14	4	3	24	8.2	
San Francisco	153	161	167	29.98	30.14	+ .04	49.6	− 1.8	63	5	55	37	28	44	18	47	44	83	2.65	− 2.4	10	6,430	n.	30	sw.	15	18	6	7	3.8	
Point Reyes Light	.....	12	16	.....	.....	.....	51.2	+ 1.3	68	23	57	39	17	46	23	....	...	....	3.70	− 1.7	10	9,023	nw.	48	nw.	8	15	1	15	4.9	
S. Pac. Coast Reg.							53.6	+ 0.9										71	1.79	− 1.2										4.6	
Fresno	332	67	70	29.79	30.15	+ .03	43.8	− 2.5	62	30	48	32	27	39	21	43	42	94	1.09	− 0.4	10	2,921	s.	20	nw.	5	1	5	25	3.6	
Los Angeles	330	74	82	29.69	30.04	− .01	57.8	+ 2.4	83	1	70	37	19	46	32	49	42	61	0.90	− 3.1	4	2,515	n.	16	nw.	8	13	13	5	3.7	
San Diego	87	94	102	29.94	30.04	− .01	58.7	+ 2.9	80	22	66	46	10	51	28	50	43	63	0.65	− 1.5	3	3,207	ne.	22	ne.	22	24	2	5	2.6	
San Luis Obispo	201	10	46	29.89	30.11	+ .05	54.3	+ 0.9	80	24	66	33	28	43	40	47	41	65	4.51	0.0	7	3,644	n.	22	s.	15	17	5	9	3.6	
West Indies.																															
Basseterre	29	41	54	29.92	29.95	.....	76.8	.....	85	1	83	64	21	71	21	70	66	70	3.12	.....	9	6,158	ne.	24	ne.	11	18	13	0	3.2	
Bridgetown	30	57	65	29.88	29.91	.....	78.9	.....	87	19	85	68	15	72	17	74	72	80	2.34	.....	9	4,186	ne.	20	se.	31	4	20	7	5.8	
Cienfuegos	52	62	67	29.97	30.02	.....	70.6	.....	85	11	80	52	26	62	25	65	63	87	0.58	.....	3	5,385	ne.	22	w.	24	20	10	1	2.4	
Havana	57	83	100	29.99	30.05	.....	71.3	.....	83	12	77	55	31	65	21	65	63	79	1.14	.....	7	7,886	e.	38	ne.	7	14	13	4	3.6	
Kingston	296	38	52	.....	.....	.....	.....	.....	...	...	...	...	...	...	...	....	....	....	.....	.....	...	.....	...	...	.....	...	...	...	...	...	....
Port of Spain	40	65	66	29 84	29.88	.....	79.2	.....	89	5	87	67	31	72	19	74	71	78	5.52	.....	11	2,393	ne.	15	ne.	15	8	16	7	5.3	
Puerto Principe	352	55	62	29.65	30.00	.....	69.6	.....	82	28	78	49	26	61	27	65	64	90	3.72	.....	13	5,148	ne.	27	e.	11	11	12	8	4.7	
Roseau	25	37	47	29.90	29.92	.....	78.4	.....	88	5	85	68	14	72	16	70	67	70	1.68	.....	8	3,856	ne.	19	se.	10	13	10	8	4.7	
San Juan	82	48	73	29.89	29.97	.....	76.0	.....	88	2	82	65	26	70	15	70	67	74	2.10	− 2.2	10	7,432	ne.	31	ne.	7	18	11	2	3.3	
Santiago de Cuba	82	45	51	29.88	29.96	.....	74.6	.....	87	6	83	61	31	67	21	67	65	80	2.30	.....	8	4,635	ne.	26	sw.	1	9	21	1	4.8	
Santo Domingo	57	37	44	.....	.....	.....	.....	.....	...	...	...	...	...	...	...	....	....	....	.....	.....	...	.....	...	...	.....	...	...	...	...	...	....
Willemstad	75	39	46	29.82	29.89	.....	79.7	.....	87	6	84	69	21	76	11	73	71	75	3.89	.....	14	7,284	e.	22	ne.	27	5	15	11	6.2	

NOTE.—The data at stations having no departures are not used in computing the district averages. Letters of the alphabet denote number of days missing from the record. * Two or more dates. † Received too late to be considered in departures, etc. ‡ Record for 16 days. Station discontinued December 16, 1899.

TABLE II.—*Climatological record of voluntary and other cooperating observers, December, 1899.*

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
	°	°	°	Ins.	Ins.
Alabama.					
Alco [5]	74	28	52.0	.....	
Ashville	67	19	43.0	6.10	T.
Bermuda	75	25	50.2	5.44	
Birmingham	68	20	46.0	7.20	
Bridgeport	.....	.....	.....	7.41	
Citronelle	71	29	51.4	5.97	
Clanton	67	23	45.7	6.13	
Daphne	73	29	49.6	5.10	T.
Decatur	69	15	41.9	6.67	
Demopolis	.....	.....	.....	5.59	2.0
Eufaula *a*	71	22	47.6	3.61	
Eufaula *c*	.....	.....	.....	3.64	
Eutaw	71	22	45.9	6.07	2.2
Evergreen	72	25	50.2	4.94	
Florence *a*	.....	.....	.....	8.79	
Florence *b*	64	15	40.6	8.49	
Fort Deposit	71	25	48.2	4.39	1.0
Gadsden	68	16	42.6	7.16	
Goodwater	69	19	43.2	5.85	0.5
Greensboro	70	24	44.8	6.02	2.0
Hamilton	68	14	42.4	6.74	1.0
Healing Springs	78	25	49.4	4.69	
Highland Home	71	27	49.2	3.41	
Jasper	.....	15	.....	6.61	T.
Lock No. 4	64	19	41.8	7.01	0.6
Madison Station	65	14	41.6	6.96	
Maplegrove	66	14	39.5	6.05	
Marion	75	20	48.4	8.20	2.0
Mount Willing	.....	.....	.....	4.09	
Newbern	71	23	46.2	5.58	2.5
Newburg	.....	15	.....	7.05	
Newton	67	22	45.2	4.52	
Oneonta	65	12	42.2	4.79	T.
Opelika	68	21	45.0	5.96	3.0
Oxanna	71	19	42.4	5.91	1.0
Pushmataha	74	23	46.8	3.51	2.0
Riverton	68	15	39.9	8.16	
Rockmills	67	19	44.6	5.15	T.
Scottsboro	.....	.....	.....	7.57	T.
Selma	74	22	46.2	5.59	2.0
Talladega	64	19	44.0	6.10	T.
Tallassee	.....	.....	.....	4.79	0.5
Tuscaloosa	70	21	43.7	7.88	2.6
Tuskegee	71	21	46.0	4.57	2.9
Union Springs	68	24	45.2	4.58	0.5
Uniontown	79	26	48.6	7.51	2.0
Valleyhead	64	14	40.0	6.70	T.
Warrior	.....	.....	.....	6.33	
Wetumpka	70	23	46.0	4.62	0.9
Arizona.					
Allaire Ranch	.....	.....	.....	0.11	
Arivaca	95	22	54.0	0.04	
Arizona Canal Co. Dam	80	30	57.6	0.00	
Aztec *[1]	75	38	53.8	0.13	
Benson *[1]	69	27	49.9	0.00	
Bisbee	72	25	47.8	0.06	
Blaisdell *[1]	78	37	58.8	T.	
Bowie *[1]	68	30	48.7	T.	
Buckeye	77	25	51.8	0.20	
Camp Creek	72	29	51.7	0.32	
Casagrande *[1]	78	32	52.7	0.00	
Champie Camp	84	27	54.5	0.20	
Cochise	.....	.....	.....	0.00	
Congress	74	35	54.4	0.31	
Dragoon Summit	.....	.....	.....	0.06	
Dudleyville	71	23	46.6	0.08	
Fort Apache	63	9	36.8	1.60	
Fort Defiance	55	0	30.2	0.80	4.5
Fort Grant	82	25	49.8	0.17	
Fort Huachuca	72	16	46.5	T.	
Fort Mohave	.....	34	.....	0.06	
Gilabend *[1]	73	37	52.4	T.	
Holbrook	62	6	34.4	0.30	1.0
Ingleside	75	27	52.3	0.50	
Jerome	69	26	45.0	0.50	
Maricopa *[1]	70	28	48.0	T.	
Mesa	81	25	51.6	0.06	
Mount Huachuca	67	22	46.4	0.05	
Music Mountain	75	21	45.8	0.12	
Natural Bridge	.....	.....	.....	0.20	
Nogales	78	18	49.2	0.00	
Oracle	68	25	47.6	T.	
Oro	.....	.....	.....	0.29	
Pantano *[1]	78	34	49.8	T.	
Parker	.....	23	.....	0.01	
Phenix	74	20	50.1	0.12	
Pima	72	16	47.0	0.18	
Pinal Ranch	.....	.....	.....	0.19	
Prescott	71	8	39.0	0.60	
Russellville	.....	.....	.....	0.00	
San Carlos	77	25	48.2	0.15	
San Simon *[1]	62	22	37.4	0.00	
Sentinel *[1]	73	38	54.8	0.12	
Signal	79	22	51.2	0.02	
Silverking	.....	.....	.....	0.05	
Snowflake	68	3	32.8	T.	T.
Arizona—Cont'd.					
Strawberry	65	11	37.4	0.09	0.5
Supai	68	26	44.8	0.16	
Texas Hill *[1]	80	30	51.6	0.04	
Tonto	67	21	45.9	0.16	
Tuba	64	13	38.7	T.	
Tucson	78	22	51.4	T.	
Vail *[5]	82	30	53.4	0.00	
Walnut Grove	.....	.....	.....	0.02	
Whitehills	76	24	46.6	0.10	
Willcox *[1]	65	23	41.2	0.00	
Winslow	61	7	35.4	T.	
Yarnell	.....	.....	.....	0.37	
Arkansas.					
Amity	70	19	43.0	4.30	2.0
Arkadelphia	71	21	45.6	4.00	1.5
Arkansas City	.....	.....	.....	4.76	1.2
Batesville	67	12	40.0	4.41	
Beebranch	72[e]	11[e]	40.5[e]	4.30	T.
Blanchard Springs	72	18	44.8	3.50	T.
Brinkley	72	19	44.5	4.35	T.
Camden *a*	.....	.....	.....	5.92	2.0
Camden *b*	74	19	43.9	5.40	2.0
Canton	63	11	36.6	4.25	0.5
Conway	69	17	42.7	4.06	1.1
Corning	63	10	35.8	4.12	2.0
Dallas	69	19	43.0	3.54	1.8
Dardanelle	.....	.....	.....	4.41	
Elon	72	15	44.8	4.46	1.0
Fulton	.....	.....	.....	2.93	1.0
Hardy	65	13	37.8	4.08	0.5
Helena *a*	.....	.....	.....	5.00	1.0
Helena *b*	68	20	42.6	4.95	1.0
Hot Springs *a*	71	18	45.0	.....	
Jonesboro	66	13	39.2	5.23	0.8
Keesees Ferry	69	11	39.0	2.64	0.4
Lacrosse	62	13	38.0	.....	
Lonoke	66	17	41.6	5.77	1.8
Luna Landing	78	20	44.9	3.74	3.0
Lutherville	64	15	40.2	4.07	2.0
Malvern	67	17	42.7	.....	
Marianna	63	15	40.6	4.24	0.4
Marvell	66	18	41.6	4.20	1.2
Moore	.....	.....	.....	6.10	4.0
Mossville	56	9	33.0	6.64	1.0
Mount Nebo	61	14	37.9	4.76	4.0
Nashville [1]	69	22	45.5	1.90	0.8
New Gascony	68	18	42.8	3.72	3.2
Newport *a*	.....	.....	.....	4.45	0.1
Newport *b*	64	11	40.2	4.48	T.
Newport *c*	66	12	40.0	4.54	T.
Oregon	64	9	39.1	2.86	T.
Osceola	67	15	41.2	4.07	T.
Ozark	66	19	41.7	4.99	4.0
Pinebluff	70	18	42.4	5.41	3.0
Pocahontas	62	12	37.0	4.59	0.1
Pond	64	9	36.4	2.05	T.
Powell	69	11	35.9	2.63	
Rison	72	18	43.8	4.02	1.5
Silversprings	66	9	37.2	2.01	0.9
Spielerville	66	17	40.8	4.18	3.0
Stuttgart	66	16	41.8	4.16	2.1
Texarkana	70	22	44.8	2.38	
Washington	67	21	43.6	3.58	2.9
Wiggs	65	15	41.2	4.35	3.0
Winslow	65	8	35.4	3.52	6.4
Witts Springs	60[c]	12[c]	37.3[c]	3.15	0.5
California.					
Anada	64	19	40.1	15.28	.....
Angiola	65	29	43.9	1.17	
Arlington Heights	84	35	55.8	0.41	
Azusa	.....	.....	.....	1.75	
Bakersfield	69	21	45.1	0.77	
Ballast Point L. H.	.....	.....	.....	0.75	
Bear Valley	.....	.....	.....	12.81	39.0
Berkeley	61	34	48.3	3.46	
Bishop	75	13	41.2	1.05	6.0
Boca *[1]	50	—7	23.7	4.53	33.0
Bodie	49	—17	21.0	2.57	20.0
Bowman *[1]	68	18	36.2	15.72	47.0
Cahto	.....	.....	.....	13.98	
Caliente *[1]	65	31	51.9	0.64	
Campbell	61	28	46.9	1.47	
Cape Mendocino L. H.	.....	.....	.....	10.55	
Cedarville	56	9	29.4	1.85	8.5
Centerville *[1]	64	36	51.1	2.91	
Chico *[1]	73	34	48.0	4.20	
Cisco *[1]	52	16	32.1	12.14	51.0
Claremont	79	30	50.6	1.04	
Corning *[1]	65	36	47.5	3.42	
Coronado	72	48	58.4	.....	
Craftonville	81	32	52.6	0.52	
Crescent City	66	32	49.0	11.28	
Crescent City L. H.	.....	.....	.....	8.39	
Cuyamaca	62	18	40.1	2.49	
Delano *[5]	62	33	44.8	1.01	
Delta *[1]	66	34	47.3	6.40	6.0
California—Cont'd.					
Dewey	62	29	43.6	0.55	
Drytown	70	30	47.0	5.61	
Dunnigan *[1]	65	28	46.0	3.65	
Durham *[1]	66	30	44.4	4.13	
East Brother L. H.	.....	.....	.....	1.80	
Edmanton *[1]	59	19	35.3	11.89	22.0
Elcajon	84	28	54.2	0.87	
Elmwood	60	32	43.4	1.62	
Elsinore	89	26	54.4	0.55	
Escondido	76	23	49.6	1.62	
Fallbrook *[1]	82	37	54.9	2.22	
Fordyce Dam	.....	.....	.....	8.26	67.0
Fort Bragg	.....	.....	.....	6.23	
Fort Ross	67	37	50.8	7.51	
Fort Tejon	.....	.....	.....	1.40	
Georgetown	70	28	46.3	11.91	2.0
Gilroy Hot Springs	.....	.....	.....	3.09	
Gilroy (near)	71	28	48.4	2.13	
Glendora	.....	.....	.....	1.18	
Goshen	.....	.....	.....	1.88	
Grand Island *[5]	62	33	46.3	3.32	
Grass Valley	.....	.....	.....	11.35	1.0
Greenville	58	10	34.8	6.92	15.5
Hanford	64	28	44.0	0.87	
Healdsburg	69	28	46.5	7.78	
Hill Ranch	74	29	50.4	1.42	
Hollister	69	26	47.2	1.70	
Humboldt L. H.	.....	.....	.....	8.55	
Indio *[1]	78	33	53.6	.....	
Iowa Hill *[1]	71	31	47.8	8.15	1.5
Irvine	96	44	64.7	0.68	
Jackson	58	24	41.6	7.45	
Jolon	.....	.....	.....	2.30	
Keene *[1]	66	30	47.5	0.90	
Kennedy Gold Mine	58	25	41.4	6.41	
Kernville	.....	.....	.....	0.84	
King City *[1]	68	32	48.6	1.21	
Kingsburg *[5]	62	35	46.1	0.72	
Kono Tayee	58	33	45.6	4.14	
Lagrange	60	31	44.8	1.79	
Lamesa	.....	.....	.....	0.85	
Lankershim	64	30	44.0	0.80	
Laporte *[1]	55	17	35.7	16.23	52.9
Las Fuentes Ranch	.....	.....	.....	2.12	
Legrand	.....	32	.....	2.15	
Lemoncove	65	29	46.2	1.67	
Lemoore *a* *[1]	65	30	43.6	1.08	
Lick Observatory	72	27	45.6	4.16	8.2
Lime Point L. H.	.....	.....	.....	3.03	
Lodi	59	31	45.4	2.18	
Los Gatos *b*	60	33	47.0	3.46	
Malakoff Mine	70	26	45.1	13.09	8.5
Mammoth *[1]	78	36	55.6	T.	
Manzana	73	32	49.4	0.29	
Mare Island L. H.	.....	.....	.....	3.43	
Merced *b*	60	32	43.0	1.80	
Mills College	.....	.....	.....	3.25	
Milo	.....	.....	.....	3.31	
Milton (near) *[1]	59	30	44.4	3.02	
Modesto *[1]	76	36	47.4	1.38	
Mohave *[1]	66	29	45.4	0.31	
Mokelumne Hill *[5]	.....	29	42.8	6.09	
Monterio	76	32	53.6	1.54	
Monterey *[1]	69	30	52.8	1.39	
Morena Dam	.....	.....	.....	1.38	
Mountainview	.....	.....	.....	1.83	
Mutah Flat	.....	.....	.....	2.25	
Napa *b*	65	31	46.2	3.80	
Needles	73	38	55.3	T.	
Nevada City	68	25	43.2	10.27	3.0
Newhall *[1]	80	29	51.7	0.64	
North Ontario	75	35	54.1	1.05	
North San Juan *[1]	70	27	45.4	12.41	3.5
Oakland *a*	61	31	47.8	3.20	
Ogilby *[5]	85	40	58.4	0.00	
Oleta *[1]	61	28	43.1	7.82	
Orland *[1]	64	30	44.5	2.69	
Palermo	59	30	44.1	3.72	
Paso Robles *b*	67	25	47.3	2.53	
Peachland *[5]	65	30	46.4	6.20	
Piedras Blancas L. H.	.....	.....	.....	3.85	
Pigeon Point L. H.	.....	.....	.....	1.21	
Pilot Creek	.....	.....	.....	12.56	18.0
Pine Crest	81	45	59.6	2.22	
Placerville	64	26	42.3	8.32	T.
Point Ano Nuevo L. H.	.....	.....	.....	2.64	
Point Arena L. H.	.....	.....	.....	5.52	
Point Bonita L. H.	.....	.....	.....	4.29	
Point Conception L. H.	.....	.....	.....	1.08	
Point Firmin L. H.	.....	.....	.....	0.84	
Point George L. H.	.....	.....	.....	5.09	
Point Hueneme L. H.	.....	.....	.....	0.78	
Point Lobos	58	37	48.7	3.41	
Point Loma L. H.	.....	.....	.....	0.44	
Point Montara L. H.	.....	.....	.....	2.47	
Point Pinos L. H.	.....	.....	.....	2.44	

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
California—Cont'd.	°	°	°	*Ins.*	*Ins.*
Point Sur L. H	.....	.....	....	3.47	
Pomona (near)	80	32	54.2	0.95	
Poway *[2]	83	33	48.5	1.29	
Quincy	49	15	34.1	7.60	11.0
Ranch House	84	38	60.4	1.14	
Raymond	64	24	43.7	2.05	
Redding	73	31	46.6	4.18	T.
Redlands	83	35	55.9	0.46	
Reedly	64	20	42.0	1.05	
Represa	60	32	45.8	4.39	
Riovista	61	31	43.4	1.87	
Roe Island L. H	.....	.....	.....	2.72	
Romie	78	27	50.3	1.73	
Rosewood	71	22	43.1	3.93	1.0
Sacramento *a*	61	34	45.3	3.40	
Salinas *[1]	75	33	58.6	1.62	
Salton *[5]	78	38	57.8	T.	
San Bernardino	85	28	54.2	0.84	
San Jacinto	76	27	51.6	0.75	
San Leandro *[1]	72	38	53.4	2.76	
San Luis L. H	.....	.....	.....	2.70	
San Mateo *[1]	64	35	49.3	2.57	
San Miguel *[1]	70	25	46.6	1.23	
Santa Barbara *a*	80	40	57.1	2.35	
Santa Barbara L. H	.....	.....	.....	2.76	
Santa Clara *a*	.....	.....	.....	1.59	
Santa Cruz *b*	72	31	49.6	4.42	
Santa Cruz L. H	.....	.....	.....	3.07	
Santa Maria	78	33	55.4	0.89	
Santa Monica *[1]	72	44	55.0	1.57	
Santa Paula	88	40	61.2	1.66	
Santa Rosa *[1]	64	28	47.3	4.78	
Shasta	76	27	46.5	6.38	0.8
Sierra Madre	78	40	57.1	1.01	
Snedden	.....	.....	.....	0.27	
Sonoma	.....	.....	.....	4.23	
S. E. Farallone L. H	.....	.....	.....	3.45	
Stanford University	62	30	47.2	1.42	
Stockton *a*	67	32	43.6	1.83	
Summerdale	58	18	38.6	13.63	14.0
Susanville	50	8	29.0	3.59	26.0
Tehama *[1]	70	38	46.6	3.65	
Tejon Ranch	69	28	47.8	1.67	
Templeton *[1]	62	27	43.1	3.96	
Thermalito	65	30	44.8	3.78	
Trinidad L. H	.....	.....	.....	6.77	
Truckee *[1]	52	6	26.4	1.80	18.0
Tulare *b*	.....	.....	.....	2.21	
Tulare *c*	70	28	45.1	1.28	
Ukiah	68	24	46.2	6.94	
Upperlake	69	20	46.4	.....	
Upper Mattole *[1]	66	29	44.8	17.84	
Vacaville *a* *[1]	64	28	45.4	3.67	
Ventura	78	34	54.2	1.55	
Visalia *b*	65	29	45.7	1.29	
Volcano Springs *[1]	82	33	54.4	T.	
Walnut Creek	65	29	47.4	2.78	
West Palmdale	.....	.....	.....	0.32	
Westpoint	.....	.....	.....	8.52	2.0
West Saticoy	.....	.....	.....	0.96	
Wheatland	59	32	43.7	3.83	
Williams *[1]	65	37	48.7	3.01	
Wilmington *[1]	75	41	54.0	0.61	
Wire Bridge *[5]	62	30	46.0	6.06	
Yerba Buena L. H	.....	.....	.....	2.85	
Yreka	59	21	35.8	3.80	.....
Yuba City *[5]	62	35	48.0	3.62	
Colorado.					
Antlers	48	0	24.0	0.94	10.5
Arkins	.....	.....	.....	0.49	7.0
Aspen	.....	.....	.....	1.22	17.5
Boulder	60	6	35.8	0.96	12.8
Boxelder	.....	.....	.....	0.17	.....
Breckenridge	45	−18	14.0	1.20	21.7
Buenavista	.....	.....	.....	0.87	15.0
Canyon	66	− 1	37.2	0.76	12.5
Castlerock	60	−14	24.9	1.16	17.0
Cedaredge	58	− 3	27.6	1.06	11.0
Cheyenne Wells	63	1	28.0	0.55	4.0
Clearview *[1]	44	−10	21.5	1.57	24.0
Colorado Springs	61	− 6	31.6	0.55	11.0
Cope	62	− 1	28.6	0.41	6.0
Crook	66	− 3	26.8	0.22	3.0
Delta	55	− 6	25.1	0.23	2.5
Dumont	.....	.....	.....	0.85	13.0
Durango	54	− 2	27.9	0.88	11.5
Fairview	58	−19	25.5	0.96	14.8
Fort Collins	64	− 9	28.0	0.47	6.0
Fox	.....	.....	.....	0.60	9.0
Garnett	49	−23	19.4	0.26	4.0
Georgetown	50	4	27.9	.....	.....
Gilman	.....	.....	.....	1.45	23.2
Gleneyrie	60	− 6	31.8	1.01	13.5
Glenwood	.....	.....	.....	1.34	16.0
Greeley	64	−12	25.6	0.40	5.8
Gunnison	47	−35	9.3	1.21	16.8

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Colorado—Cont'd.	°	°	°	*Ins.*	*Ins.*
Gypsum	.....	.....	.....	0.30	5.0
Hamps	62	−16	27.6	0.71	8.5
Hoehne	58	−11	31.8	0.56	8.0
Holly	.....	.....	.....	0.90	7.0
Holyoke (near)	65	− 5	28.4	0.09	2.0
Hugo	.....	.....	.....	0.56	8.0
Husted	61	−16	29.0	0.94	15.5
Lake Moraine	47	− 8	22.4	1.10	28.6
Lamar	64	−16	29.4	0.70	10.5
Laporte	.....	.....	.....	0.40	6.0
Las Animas	64	−22	28.0	1.10	14.0
Lay	53	−36	12.8	1.19	19.0
Leadville (near) *[1]	44	− 6	17.9	0.63	14.5
Leroy	64	− 3	27.4	0.44	5.5
Longs Peak	55	− 9	25.4	0.64	11.5
Mancos	57	−17	27.3	0.78	13.0
Marshall Pass	.....	.....	.....	2.25	37.0
Meeker	51	−29	14.7	1.46	22.8
Minneapolis	67	−10	27.8	0.99	12.0
Mitchell	.....	.....	.....	1.71	30.0
Montrose	.....	.....	.....	1.54	22.0
Moraine	49	−11	27.4	0.65	10.0
Pagoda	53	−27	16.8	1.93	29.5
Palmer	.....	.....	.....	1.15	17.5
Parachute	51	1	24.3	0.76	.....
Perrypark	.....	.....	.....	0.91	.....
Rangely	45	−31	6.6	0.79	12.5
Rockyford	66	−20	27.3	0.98	13.0
Ruby	.....	.....	.....	2.80	48.0
Saguache	48	−10	23.2	0.06	1.5
Salida	60	−26	26.4	1.10	17.5
San Luis	53	−12	25.5	0.23	3.9
Santa Clara *[1]	56	− 2	26.1	2.63	34.0
Sapinero	.....	.....	.....	1.19	23.5
Sargents	.....	.....	.....	1.93	31.0
Seibert	.....	.....	.....	0.57	7.5
Springfield	.....	.....	.....	1.07	16.0
Strickler Tunnel	.....	.....	.....	0.94	22.8
Trinidad	68	− 7	35.8	0.91	13.0
Troutvale	48	−42	13.1	0.90	17.5
T. S. Ranch	53	4	25.2	1.32	15.0
Twinlakes	.....	.....	.....	0.81	12.0
Vilas	.....	.....	.....	0.67	8.0
Wagon Wheel	50	−27	16.6	0.62	11.0
Walden	50	−35	13.6	0.89	14.8
Wallet	.....	.....	.....	0.37	6.0
Westcliffe	52	−10	27.0	1.42	19.0
Wray	64	− 5	29.5	0.33	3.5
Yuma	.....	.....	.....	0.27	4.5
Connecticut.					
Bridgeport	61	6	33.9	2.26	0.9
Canton	66	− 2	30.4	2.84	0.5
Colchester	61	3	34.4	2.32	T.
Falls Village	.....	.....	.....	2.35	2.5
Greenfield Hill	.....	.....	.....	2.51	0.7
Hartford *a*	.....	.....	.....	2.28	1.0
Hartford *b*	60	6	32.7	2.33	T.
Hawleyville	61	2	33.2	3.06	1.2
Middletown	62	3	32.4	2.81	2.7
New London	60	4	35.1	1.73	0.2
North Grosvenor Dale	65	− 1	31.0	2.21	T.
Norwalk	61	5	32.0	2.32	0.8
Southington	60	3	32.6	1.68	0.5
Storrs	61	0	32.0	2.14	T.
Voluntown	66	− 1	33.1	2.38	T.
Wallingford	.....	.....	.....	1.95	.....
Waterbury	62	3	32.9	2.81	T.
West Cornwall	54	0	29.7	2.21	1.2
West Simsbury	.....	.....	.....	2.54	0.5
Winsted *[1]	57	2	29.1	.....	.....
Delaware.					
Millsboro	65	1	37.8	1.79	1.5
Newark	65	5	34.2	1.92	0.5
Seaford	65	5	37.6	1.29	1.5
Wyoming	67[e]	3[e]	36.6[e]	2.51	1.5
District of Columbia.					
Distributing Reservoir *[5]	65	9	38.0	1.52	.....
Receiving Reservoir *[5]	65	4	40.5	1.60	.....
West Washington	71	1	35.9	1.62	2.0
Florida.					
Archer	79	25	55.9	1.57	
Bartow	80	34	61.0	1.95	
Brooksville	78	31	58.8	1.79	
Clermont	80	33	60.3	1.35	
Dalkeith	76	30	54.2	3.48	
De Funiak Springs	78	28	53.0	4.00	
Deland	79	29	58.9	.....	
Ernestville	80	30	60.2	1.80	
Estero *[1]	82	38	64.6	.....	
Eustis	80	31	60.0	1.28	
Federal Point	75	31	55.9	2.03	
Fort Meade	80	30	62.4	1.50	
Gainesville	78	29	55.0	1.15	
Homeland	76	34	58.2	.....	
Huntington	76	32	56.8	1.41	
Hypoluxo	81	41	69.3	.....	

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Florida—Cont'd.	°	°	°	*Ins.*	*Ins.*
Inverness	81	31	57.6	1.84	
Jasper	76	28	52.8	1.49	
Kissimmee	80	35	63.4	1.60	
Lake City	78	28	55.8	1.59	
Lemon City	81	44	68.4	2.45	
Maccleuny	81	23	53.2	1.05	
Manatee	81	34	61.4	2.51	
Merritt Island	78	38	64.3	2.48	
Middleburg	76	30	55.1	1.21	
Myers	82	38	64.2	0.58	
New Smyrna	78	31	59.2	3.50	
Nocatee	84	35	66.0	1.93	
Ocala	82	25	58.6	1.50	
Orange City	80	33	60.8	0.58	
Orlando	79	33	61.7	0.93	
Plant City	81	28	61.2	1.65	
Rockwell [f]	78	30	58.4	.....	
St. Andrews	73	30	54.3	2.26	
St. Francis	77	28	58.4	0.89	
St. Francis Barracks	79	30	56.9	2.23	
Sebastian	76	38	64.2	4.86	
Stephensville *[1]	79	28	55.4	2.03	
Switzerland *[1]	76[d]	31[b]	53.3[c]	1.23	
Tallahassee	71	29	51.6	2.59	
Tarpon Springs	79	33	59.6	2.36	
Wausau	74	25	51.7	3.25	
Georgia.					
Adairsville	63	14	39.6	4.42	
Albany	74	26	49.8	2.55	
Americus	71	23	46.0	2.39	1.5
Athens *b*	66	17	41.0	2.78	
Blakely	70	26	50.3	2.96	
Canton	.....	.....	.....	5.15	
Carlton	.....	.....	.....	3.02	
Cedartown	65	17	43.6	4.76	
Clayton	68	10	39.0	5.84	T.
Columbus	65	26	46.0	3.59	
Covington	68	16	42.1	3.14	T.
Crescent	.....	.....	.....	1.33	T.
Dahlonega	66	8	39.4	5.01	T.
Diamond	65	.....	.....	6.06	1.0
Dublin	.....	.....	.....	2.75	
Elberton	67	16	44.6	3.28	
Fitzgerald	75	23	47.7	2.18	
Fleming	77	22	48.6	1.53	
Fort Gaines	71	26	49.0	3.28	
Franklin	66	22	45.1	5.48	1.0
Gainesville	64	15	40.9	4.49	
Gillsville	68	12	41.5	3.61	
Greenbush	.....	13	.....	6.56	T.
Harrison	70	21	44.9	2.95	4.0
Hephzibah *[6]	70	28	49.5	0.83	2.5
Jesup	80	19	50.8	1.68	
Louisville	73	23	47.5	2.48	
Lumpkin	68	24	48.5	3.66	1.0
Marshallville	68	24	46.9	2.87	2.5
Mauzy	80	24	51.6	1.90	
Morgan	72	24	45.0	2.71	
Newnan	.....	.....	.....	4.29	
Oakdale	.....	.....	.....	4.39	
Pelham	75	.....	.....	2.11	
Point Peter	64	17	39.8	3.14	
Poulan	79	22	49.0	2.53	
Putnam	69	22	46.2	2.80	3.0
Quitman	74	25	51.0	2.32	
Ramsey	65	11	42.0	4.07	T.
Resaca	.....	.....	.....	4.66	
Reynolds	.....	.....	.....	2.95	2.0
Rome	70	18	41.2	4.72	
Talbotton	71	21	45.3	4.83	2.0
Thomasville	77	28	52.4	2.05	
Toccoa	65	15	41.4	4.16	
Washington	.....	.....	.....	2.04	
Way Cross	75	24	50.6	1.07	
Westpoint	.....	.....	.....	3.70	1.5
Idaho.					
Albion	60	0	29.0	1.06	2.2
American Falls	52	−11	24.2	1.52	8.0
Atlanta	41	− 4	23.6	2.58	34.2
Blackfoot	51	−11	20.0	0.76	7.6
Burnside	41	−10	19.8	0.71	.....
Chesterfield	47	−32	13.6	1.55	16.0
Downey	50	−18	19.0	0.90	9.0
Fort Sherman	50	9	32.2	3.38	8.8
Garnet	61	7	35.3	0.37	T.
Gray	52	−10	29.3	1.80	18.0
Hagerman	53	− 9	29.8	1.26	6.6
Idaho City	47[d]	−10[d]	23.2[d]	5.12	51.2
Kootenai	54	− 1	27.2	1.59	16.0
Lake	40	− 4	23.1	1.00	10.0
Lakeview	52	13	33.6	3.18	.....
Lewiston	58	17	39.0	1.43	1.0
Lost River	42	−23	14.5	1.15	12.5
Marysville	58[j]	−10[j]	17.8[j]	0.96	9.6
Moscow	44	17	32.6	2.76	17.5
Murray	46	4	29.3	5.34	32.0

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Idaho—Cont'd.	°	°	°	*Ins.*	*Ins.*
Oakley	60	— 2	27.6	0.40	4.0
Ola	49	—11	25.4	2.55	24.1
Paris	50	—14	21.4	1.00	8.0
Payette	58	— 6	27.1	1.77	17.7
Pollock	55	19	36.0	0.54	.....
Priest River	50	10	31.8	1.74	11.8
St. Maries	49	17	33.7	4.57	13.5
Soldier	44	—28	15.6	1.50	15.5
Swan Valley	49	—20	21.0	0.62	6.9
Weston	53	—14	22.6	0.81	10.5
Yellow Jacket	.....	.....	.....	1.60	.....
Illinois.					
Albion	60	1	32.2	2.74	7.5
Alexander	58	— 2	30.4	1.48	6.0
Ashton	52	— 5	25.4	1.94	4.0
Astoria	59	— 1	29.2	2.02	7.8
Aurora *a*	53	— 4	26.7	1.61	4.1
Aurora *b*	53	— 3	26.0	1.71	3.6
Bloomington	58	— 3	28.7	2.15	5.0
Cambridge	52	— 4	25.3	2.44	7.0
Carlinville	58	— 1	30.2	2.38	8.0
Carlyle	.....	.....	.....	2.82	1.8
Centralia	66	3	32.6	2.94	10.0
Charleston	60	— 1	30.7	2.90	5.2
Chemung	49	— 6	24.2	1.98	3.0
Chester	.....	.....	.....	2.48	3.0
Cisne	62	— 1	32.6	2.14	7.2
Coatsburg	57	— 3	28.2	1.32	2.5
Cobden	60	4	33.0	4.17	2.2
Decatur	58	— 3	29.1	2.37	4.1
Dixon	52	— 4	26.2	1.81	2.0
Dwight	57	— 5	26.4	2.06	5.5
Effingham	60	— 4	30.6	3.38	12.2
Elgin	51	— 5	25.8	1.69	2.5
Equality	63	4	35.2	2.83	2.8
Flora	60	— 2	30.8	2.65	9.5
Fort Sheridan	.....	.....	.....	1.31	2.1
Friendgrove *1	60	6	34.8	2.83	4.3
Galva	53	— 5	25.8	1.71	4.7
Glenwood *1	57[f]	— 6[d]	24.5[e]	1.77	4.0
Grafton	.....	.....	.....	2.36	3.0
Grayville	61	6	35.2	2.75	6.0
Greenville	61	— 4	30.9	3.90	9.7
Griggsville	.....	0	.....	1.27	4.6
Halfway	60	4	34.2	2.55	3.2
Halliday	62	1	33.8	2.15	3.1
Havana	55	4	29.8	2.73	8.0
Henry	56	— 5	27.6	2.48	6.2
Hillsboro	58	— 3	30.0	3.48	6.1
Joliet	57	— 2	26.7	1.70	4.8
Kishwaukee	52[e]	3[e]	29.0[e]	2.23	2.5
Knoxville	58	— 6	25.6	2.64	2.5
Lagrange	55	— 4	26.6	1.63	3.0
Laharpe	55	— 3	28.2	1.17	2.5
Lanark	50	— 7	24.0	1.73	1.4
Loami	.....	.....	.....	1.66	5.2
McLeansboro	65[d]	4[d]	33.9[d]	2.36	6.0
Martinsville	60	2	30.2	2.55	8.2
Martinton	59	— 4	28.1	3.11	4.0
Mascoutah	60	1	30.5	3.41	9.0
Mattoon	60[c]	2[c]	31.8[c]	2.71	3.7
Minonk	57	— 5	27.0	2.31	6.5
Monmouth	54	— 6	25.8	1.43	2.0
Monticello *5	60	— 2	29.2	2.37	4.5
Morgan Park	.....	— 8	.....	2.55	3.8
Morrisonville	58	— 1	30.3	2.23	4.5
Mount Carmel	.....	.....	.....	3.33	10.3
Mount Pulaski	58	— 3	29.8	1.93	5.5
Mount Vernon	56	0	28.7	2.19	8.5
New Burnside	65	4	34.0	3.78	2.0
Olney	60	— 4	33.1	2.66	13.6
Ottawa	55	— 3	28.1	2.03	3.5
Palestine	59	— 5	31.3	3.62	11.2
Pana	61	— 2	30.6	3.00	5.5
Paris	63	— 1	29.4	2.83	.....
Peoria *a*	.....	.....	.....	2.73	17.8
Peoria *b*	57	— 1	29.4	2.12	5.0
Philo	59	— 3	28.5	2.56	4.0
Plumhill	60	4	32.6	2.46	5.6
Rantoul	58	— 3	28.0	1.58	2.0
Raum	62	5	35.4	5.27	3.5
Riley	50	— 6	24.4	1.56	3.0
Robinson	65	— 5	31.5	3.37	8.2
Roundgrove	51	— 4	24.4	1.95	5.0
St. Charles *1	50	— 5	24.2	1.93	4.2
St. John	63	3	34.4	2.08	3.0
Scales Mound	49	— 8	22.5	1.57	3.4
Shobonier	59	— 5	32.4	3.31	9.8
Strawn	58	— 3	27.9	2.73	2.0
Streator	55	— 5	27.3	1.93	.....
Sullivan	58	— 2	30.4	3.00	3.5
Sycamore	51	— 5	24.6	1.41	1.8
Tilden	59	3	31.7	1.89	5.2
Tiskilwa	54	— 6	25.7	1.63	3.0
Tuscola	59	— 2	28.6	2.86	4.0
Walnut	53	— 4	27.2	1.57	2.5
Illinois—Cont'd.	°	°	°	*Ins.*	*Ins.*
Wheaton *3	51	1	27.4	1.86	7.0
Winchester	57	1	29.0	1.56	4.0
Winnebago	51	— 5	24.6	1.98	4.0
Indiana.					
Anderson	61	0	29.8	2.67	6.7
Angola	56	— 5	26.6	3.31	11.9
Auburn	59	0	28.5	1.92	.....
Bedford	58	— 4	30.8	2.19	3.3
Bloomington	65	— 1	31.6	3.68	2.8
Bluffton	60	— 2	29.4	2.92	4.5
Boonville	64	0	31.6	2.63	.....
Bright	61	— 3	34.0	3.39	1.0
Butlerville	62	— 2	33.2	4.47	4.3
Cambridge City	61	—10	29.2	3.12	7.2
Columbus	60	— 4	31.0	2.75	6.5
Connersville	61	— 8	29.3	3.28	7.1
Culver	58	2	28.4	1.49	3.7
Delphi	59	— 1	27.6	3.08	5.0
Edwardsville *1	65	2	34.8	4.30	4.9
Fairmount	60	— 5	29.0	2.86	5.8
Farmland	60	— 3	29.7	3.01	8.8
Fort Wayne	60	— 1	28.2	3.16	7.3
Franklin *1	58	2	30.8	2.64	7.8
Greencastle	60	— 1	30.8	3.12	6.5
Greensburg	62	— 4	30.6	3.38	0.6
Hammond	53	— 3	26.3	1.51	7.0
Hector	60	— 2	30.2	2.84	8.5
Huntington	60	1	28.0	3.85	15.0
Jasper	60	.....	.....	2.12	0.3
Jeffersonville	63	6	34.6	3.92	2.0
Knightstown	60	— 3	29.1	3.20	6.0
Kokomo	59	0	29.8	2.88	5.2
Lafayette	59	— 4	29.0	3.34	3.1
Laporte	58	0	28.6	3.63	27.8
Logansport	56	0	29.2	1.82	.....
Madison	64	1	33.6	4.50	3.0
Marengo	62	— 3	32.8	4.68	5.6
Marion	60	— 1	29.2	3.47	6.0
Markle	61	— 2	29.7	2.80	6.5
Mauzy	61	— 7	29.8	3.35	9.4
Mount Vernon	74	6	36.2	3.53	2.3
Northfield	58	— 8	28.4	2.90	5.5
Paoli	62	— 2	32.0	3.91	5.7
Peru	60	— 2	31.4	2.62	4.4
Prairie Creek	58	— 3	31.0	2.35	7.3
Princeton	60	2	32.0	3.00	11.0
Richmond	60	—11	29.2	3.05	7.0
Rockport	62	6	37.0	3.88	2.5
Rockville	59	— 2	29.6	2.47	4.0
Salem	60	— 6	30.6	3.96	8.0
Scottsburg	62	1	33.4	4.34	4.5
Shelbyville	.....	.....	.....	3.08	6.8
South Bend	58	— 2	28.9	4.23	30.5
Syracuse	57	— 2	27.4	3.47	14.5
Terre Haute	59	1	30.8	2.66	6.7
Topeka	57	— 4	28.2	2.82	10.0
Valparaiso	54	— 4	25.9	1.60	11.0
Veedersburg	60[b]	— 2[c]	31.8[f]	2.46	3.1
Vevay	65	1	34.0	5.90	4.0
Vicennes	67	0	32.5	3.77	10.5
Washington	58	0	34.1	3.46	6.5
Winamac	68	1	28.8	2.40	7.3
Worthington	60	— 4	30.2	3.25	7.3
Indian Territory.					
Hartshorne	68	18	43.2	2.33	T.
Healdton	70	16	42.2	3.61	T.
Lehigh	67	19	42.8	1.67	0.5
Muscogee	68	15	39.2	3.16	4.0
Ryan	79	21	42.4	2.77	T.
Sapulpa *h*	63	14	41.4	1.61	6.0
South McAlester	.....	.....	.....	3.60	0.5
Tahlequah	67	13	40.0	2.10	4.7
Tulsa	.....	.....	.....	1.93	.....
Wagoner	69	13	40.3	2.15	4.0
Webbers Falls	.....	.....	.....	3.05	3.0
Iowa.					
Afton	49	— 4	23.0	1.31	5.0
Albia	62	— 9	25.6	1.90	2.5
Algona *1	50	—10	20.4	0.20	3.0
Alta *a*	52	—12	20.1	1.06	3.1
Amana	50	— 5	24.0	1.64	2.5
Ames *b*	49	— 8	21.1	2.35	13.2
Ames (near)	.....	.....	.....	2.17	7.2
Atlantic	50	— 3	22.6	1.58	2.5
Audubon	55	— 4	23.8	1.10	4.0
Bancroft	53	— 9	20.8	0.70	T.
Batavia	.....	.....	.....	0.97	0.4
Baxter	50	— 9	21.0	1.60	3.0
Belknap	75	— 5	27.0	1.85	5.5
Bellplaine	50	— 9	23.4	2.31	3.8
Bonaparte	53	— 4	26.7	0.89	4.0
Britt	44	— 9	19.3	0.84	1.6
Buckingham	.....	.....	.....	1.23	10.0
Burlington	60	— 4	30.8	1.76	2.1
Bussey	.....	.....	.....	2.56	2.0
Carroll	56	—10	21.9	1.48	6.0
Iowa—Cont'd.	°	°	°	*Ins.*	*Ins.*
Carson	.....	.....	.....	1.79	2.0
Cedar Rapids	52	— 4	24.4	1.27	1.5
Chariton	53	— 6	25.6	2.22	3.0
Charles City	46	—11	19.8	1.84	10.0
Chillicothe	.....	.....	.....	1.65	0.5
Clarinda	53	— 1	24.3	1.87	4.8
Clearlake	45	—10	19.5	0.10	1.0
Clinton	51	— 4	24.2	2.32	2.0
College Springs	50	— 1	25.2	1.38	4.2
Coon Rapids	49	— 9	23.6	1.19	1.5
Corning	49	— 5[f]	22.6[d]	2.29	8.2
Council Bluffs	54	0	24.9	1.37	0.5
Cresco	43	—15	16.8	1.49	9.4
Cumberland	.....	.....	.....	1.43	4.0
Danville	.....	.....	.....	1.30	4.0
Decorah	45	—13	18.8	2.06	12.5
Delaware	47	—11	20.4	2.14	7.2
Denison	52	— 9	21.6	0.92	4.0
Desoto	49	— 5	22.8	3.15	10.0
Dows	48	—11	20.6	1.09	2.0
Eldon	56	— 6	26.7	2.52	5.9
Elkader	51	—10	22.0	2.20	4.0
Emerson	.....	.....	.....	2.25	2.5
Emmetsburg	.....	.....	.....	0.92	.....
Fairfield	52	— 4	26.0	1.88	3.0
Fayette	46	—11	19.3	1.84	5.6
Fonda	54	—14	18.4	2.53	12.5
Forest City	51	— 9	19.1	0.72	1.5
Fort Madison	.....	.....	.....	1.91	1.5
Galva	54	— 9	20.8	0.96	.....
Gilman	.....	.....	.....	1.73	T.
Gladbrook	.....	.....	.....	1.17	3.0
Glenwood	55	— 1	26.0	0.92	1.2
Grand Meadow *1	46	—10	19.6	2.13	7.0
Greene	49	—11	20.4	1.73	18.0
Greenfield	50	— 6	22.4	1.47	6.3
Grinnell	46	— 6	23.4	1.57	T.
Grinnell (near)	47	— 8	22.6	.....	.....
Grundy Center	47	—11	19.3	1.66	6.0
Guthrie Center	49[b]	— 4	22.0[d]	2.50	11.0
Hamburg	.....	.....	.....	0.95	3.5
Hampton	51	— 8	20.6	1.73	13.2
Harlan	49	— 5	22.4	1.43	2.6
Hawkeye	.....	.....	.....	3.80	18.0
Hedrick	55	— 6	25.0	1.34	2.5
Hopeville	50	— 4	23.5	1.68	.....
Humboldt	52	—10	21.2	0.73	T.
Independence	47	— 8	20.0	1.67	3.5
Indianola	51	—16	22.8	1.93	.....
Iowa City	53	— 5	23.8	1.93	4.0
Iowa Falls	48	— 9	19.2	1.64	9.0
Keosauqua	54	— 3	27.2	1.67	4.5
Knoxville	53	— 5	25.2	3.00	2.0
Lacona	.....	.....	.....	2.01	7.5
Lamoni	51	— 5	24.6	2.07	2.3
Lansing	51	—12	21.8	2.65	13.6
Larchwood	51	—14	19.8	0.98	3.0
Larrabee	56	—15	20.0	0.43	2.7
Leclaire	.....	.....	.....	2.11	T.
Lemars	56	— 9	22.2	1.06	3.0
Lenox	49	— 5	23.0	1.83	5.9
Logan	50	— 5	23.6	1.51	2.0
Maple Valley	.....	.....	.....	1.33	3.0
Maquoketa	55	— 5	25.4	1.82	0.5
Marshalltown	48	— 9	22.6	2.17	5.5
Mason City	65	—10	22.2	.....	.....
Monticello	62	—10	24.6	4.28	6.5
Mooar	56	— 2	27.4	1.27	.....
Mountayr	50	— 4	23.6	1.25	6.0
Mount Pleasant	57	— 7	25.1	1.89	.....
Mount Vernon *a* *1	50	— 9	22.7	2.17	.....
Mount Vernon *b*	49	— 6	23.4	2.55	6.4
Murray	.....	.....	.....	1.83	3.0
New Hampton	44	—12	18.8	0.29	1.2
Newton	47	—10	21.2	2.34	6.5
Northboro	.....	.....	.....	0.42	4.2
North McGregor	.....	.....	.....	2.21	10.0
Northwood	54	— 8	20.2	0.76	.....
Odebolt	52	— 9	23.0	1.00	2.0
Ogden	54	—14	21.8	1.65	12.0
Olin	49	— 6	22.4	2.24	4.5
Onawa	58	— 5	24.8	1.37	2.0
Osage	45	—11	19.2	1.91	14.0
Osceola	53	— 5	23.6	1.35	3.2
Oskaloosa	50	— 5	24.1	1.91	1.5
Ottumwa	54	— 3	27.8	1.57	1.0
Ovid	54	— 8	24.8	1.87	4.2
Pacific Junction	61	— 3	24.4	1.73	1.5
Pella	55	—10	21.4	1.10	2.0
Plover	54	—13	21.8	1.20	1.0
Primghar	66	—17	22.4	0.70	T.
Redoak	64	2	27.8	2.15	3.0
Ridgeway	46	—10	23.3	4.21	18.5
Rockwell City	50	—12	22.0	1.59	7.0
Ruthven	52	—19	18.4	1.89	0.2
Sac City	52	—11	21.9	1.50	3.0

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
	°	°	°	*Ins.*	*Ins.*
Iowa—Cont'd.					
Scranton	46	−7	22.8	2.00	4.0
Sheldon	57	−13	19.0	1.15	3.2
Sibley	55	−18	19.2	1.29	4.3
Sigourney[e]	53	−7	27.8	.....	.....
Sioux Center	53	−10	20.4	1.44	1.3
Spirit Lake	54	−12	21.4	1.06	0.5
Storm Lake	53	−11	21.6	1.06	2.5
Stuart	50	−8	21.7	1.94	7.5
Thurman	51	1	24.8	2.59	.....
Villisca	60	−4	23.2	2.44	.....
Vinton*[1]	48	−6	23.1	0.28	T.
Wapello	63	−3	28.1	2.48	3.5
Washington	52	−8	24.0	2.09	5.0
Washta	.....	.....	.....	1.10	1.0
Waterloo	50	−9	21.6	1.80	2.5
Waverly	46	−8	20.7	1.97	10.0
Westbend*[1]	53	−8	19.7	1.12	2.0
Westbranch	60	−5	25.8	1.94	2.0
West Union	.....	.....	.....	0.60	6.0
Whitten	46	−12	19.5	1.61	8.0
Wilton Junction	52	−5	24.8	2.55	2.0
Winterset	59	−5	23.0	2.00	7.0
Woodburn	.....	.....	.....	1.87	7.2
Kansas.					
Abilene	60	3	29.8	1.21	1.0
Achilles	.....	.....	.....	0.21	1.6
Altoona*[3]	59	−10	29.2	1.39	7.0
Anthony	.....	.....	.....	0.75	4.0
Atchison *a*	59	4	28.6	1.19	4.8
Atchison *b*	62	5	32.8	1.42	4.8
Augusta	67	−7	32.8	2.11	4.0
Beloit	59	7	30.1	1.07	0.2
Burlington	66	−7	31.3	1.81	6.2
Campbell	57	3	27.8	1.51	4.6
Centropolis*[1]	60	2	29.5	2.47	6.2
Chanute	70	−6	36.5	3.95	8.5
Colby	64	−6	30.1	0.35	2.8
Columbus	66	−1	32.9	1.85	6.8
Coolidge	60	−12	27.6	0.90	9.0
Cunningham	65	−6	32.4	0.97	7.0
Delphos	62	5	31.6	1.39	1.3
Dresden	62	−1	28.1	0.42	1.5
Ellinwood	64	−1	32.3	0.53	2.0
Emporia	73	−3	31.3	.....	.....
Englewood	71	−6	35.0	0.62	3.2
Eskridge	58	8	30.8	1.10	3.5
Eureka Ranch	64	−7	30.6	0.65	2.0
Fallriver	70	−9	33.8	1.35	5.0
Fanning	56	−7	28.4	1.26	3.5
Fort Riley	60	2	30.5	1.27	1.0
Frankfort	60	−2	28.6	1.57	2.8
Garden City	65	−11	31.0	0.78	7.0
Garfield	.....	.....	.....	0.37	3.0
Gibson	66	−3	30.2	0.81	5.0
Gove*[1]	69	−2	29.6	0.44	2.2
Grenola	69	−4	32.6	2.13	4.0
Halstead	.....	.....	.....	1.44	.....
Hays	64	10	34.2	0.65	1.5
Horton	54	4	28.2	1.40	3.0
Hutchinson	74	3	35.8	1.32	7.0
Independence	65	2	34.0	1.51	3.0
Lakin	64	−8	30.2	0.80	8.0
Lawrence	62	2	29.8	1.28	5.0
Lebanon	.....	.....	.....	0.95	0.5
Lebo	63	−2	30.2	1.85	7.8
Macksville	66	−3	32.2	0.66	.....
McPherson	62	3	31.6	2.13	.....
Manhattan *b*	59	6	29.7	1.13	2.0
Manhattan *c*	62	6	30.5	1.07	0.5
Marion	59	−1	32.4	1.55	8.0
Meade	.....	.....	.....	0.40	4.0
Medicine Lodge	67	−2	33.8	1.29	4.0
Minneapolis	60	4	30.4	1.54	5.5
Morantown	63	2	31.6	1.88	6.4
Mounthope*[1]	55	3	32.4	1.52	7.0
Ness City	60	−2	32.8	0.60	3.0
Norwich	73	4	35.0	0.76	4.2
Oberlin	.....	.....	.....	0.25	1.0
Olathe	63	−2	30.1	1.81	6.5
Osage City	61	−6	31.3	1.72	5.2
Oswego	69	−2	35.2	1.63	4.0
Ottawa	61	−6	30.7	1.57	6.8
Phillipsburg	68	6	31.4	0.99	1.0
Pratt	65	−1	33.4	0.59	.....
Rome*[1]	64	5	34.9	1.91	8.0
Russell	.....	.....	.....	0.43	.....
Salina	60	3	30.3	0.99	5.0
Sedan	66	−1	33.3	1.80	7.0
Seneca	58	0	27.8	1.17	5.5
Toronto	65	10	33.2	2.65	7.0
Tribune	65[g]	−2	28.8[d]	0.50	5.0
Valley Falls	57	3	29.1	1.05	2.3
Viroqua	61	−4	32.6	0.90	9.0
Wakeeney (near)	.....	.....	.....	0.38	2.5
Wallace	.....	.....	.....	0.40	3.0
Wamego*[1]	59	9	28.6	0.98	0.6
Kansas—Cont'd.					
Winfield	65	−1	33.4	2.65	10.0
Winona	.....	.....	.....	0.15	1.5
Yates Center	69	−9	30.8	1.10	6.0
Kentucky.					
Alpha	.....	.....	.....	5.78	1.2
Bardstown	64	0	35.2	5.28	3.0
Blandville	61	5	34.4	4.77	2.0
Bowling Green	64	3	36.6	4.86	3.2
Burnside	.....	.....	.....	4.02	3.2
Canton*[1]	61	10	36.9	2.43	2.3
Carrollton	65	3	32.2	3.44	1.5
Catlettsburg	70	.....	.....	3.11	3.0
Earlington	61	3	35.9	4.66	3.5
Edmonton	66	−2	37.5	5.44	4.1
Eubank	61	−15	33.6	4.30	4.5
Falmouth	.....	.....	.....	3.69	2.6
Fords Ferry	65	3	34.8	4.34	1.0
Frankfort	67	3	36.0	4.12	.....
Georgetown	62	−4	32.9	.....	.....
Greensburg	62	−8	33.7	4.88	2.5
Henderson	62	6	33.7	3.79	1.5
Hopkinsville	60	3	32.6	3.48	3.0
Irvington	63	0	34.2	3.76	1.2
Jackson	70	−5	36.8	2.98	5.0
Leitchfield	63	−4	33.8	4.74	3.0
Loretto	69	−6	33.6	5.06	1.3
Marrowbone	62	−7	35.2	4.93	2.0
Maysville	66	−4	33.2	4.39	4.0
Mount Hermon	67	2	35.5	6.22	2.0
Mount Sterling	63	−3	32.8	4.59	5.5
Owensboro	62	3	36.5	4.47	0.7
Owenton	61	−4	32.8	5.17	4.0
Paducah *a*	.....	.....	.....	5.11	3.0
Paducah *b*	63	10	36.8	4.75	3.8
Princeton	60	6	34.0	3.89	2.0
Richmond	65	0	34.0	4.60	3.6
St. John	63	−3	34.2	4.77	0.7
Scott	61	−2	32.2	3.28	1.0
Shelby City	61	−8	32.8	3.94	4.0
Shelbyville	63	1	34.4	4.71	2.5
Vanceburg	66	−5	35.2	.....	.....
Warfield	70	−13	36.2	2.74	0.8
Williamsburg	65	0	37.5	3.25	3.0
Louisiana.					
Abbeville	76	30	53.0	4.40	
Alexandria	79	23	50.0	9.21	
Amite	80	25	53.2	3.79	
Bastrop	74	21	47.4	4.26	2.5
Baton Rouge	78	27	51.8	3.83	
Calhoun	71	21	44.7	5.10	
Clinton	79	26	50.6	5.55	
Como	75	21	46.9	7.54	
Donaldsonville	78	28	49.9	4.55	
Emilie	77	31	52.6	3.91	
Farmerville	73	21	44.4	4.55	T
Franklin	76	32	53.0	7.21	
Grand Coteau	76	28	51.9	9.87	
Hammond	80	25	53.4	3.70	T.
Houma[f]	81	31	55.0	4.88	
Jeanerette	79	30	51.9	7.55	
Jennings	79	27	51.8	8.88	
Lafayette	79	28	52.5	7.84	
Lake Charles	78	30	53.4	6.10	
Lake Providence	82	21	47.6	4.05	3.0
L'Argent	.....	.....	.....	9.27	
Lawrence	79	36	54.9	3.34	
Libertyhill	79	23	47.6	5.22	0.5
Mansfield	78	20	46.6	5.52	
Melville	77	23	50.6	8.70	
Minden	74	21	47.1	3.50	T.
Monroe	74	23	47.6	3.94	0.1
Montgomery	.....	22	.....	6.27	T.
New Iberia	74	28	52.2	7.50	
Oakridge	85	20	47.1	6.86	1.0
Opelousas	.....	23	.....	6.94	
Oxford	74	21	47.5	4.87	
Paincourtville	79	29	53.3	4.42	
Plain Dealing	72	20	45.7	4.08	0.4
Plaquemine	78	30	54.2	2.85	
Prevost	80	28	53.8	3.06	
Rayne	78	28	51.8	10.87	
Ruston	78	22	46.9	4.65	T.
Schriever	82	28	53.8	4.44	
Southern University	87	31	52.6	3.55	
Sugar Ex. Station	76	30	52.2	4.00	
Sugartown	74	29	50.8	3.16	
Venice	78	40	58.9	5.43	
Wallace	80	32	54.4	4.62	
White Sulphur Springs	75	25	53.0	9.40	
Maine.					
Bar Harbor	56	−4	29.4	2.57	4.5
Belfast*[6]	53	−1	29.6	2.90	6.0
Calais	55	−5	25.8	3.48	12.0
Cornish*[1]	53	0	27.6	1.79	3.8
Fairfield	57	−1	27.8	1.93	2.5
Farmington	53	−5	25.0	2.71	8.2
Maine—Cont'd.					
Flagstaff	50[e]	−17[e]	23.9[e]	2.15	8.0
Gardiner	57	3	29.3	2.61	7.1
Lewiston	54	0	29.0	2.03	3.2
Mayfield	51	−4	23.4	3.05	17.0
North Bridgton	55	−3	28.1	2.18	5.2
Orono	57	−9	28.0	3.09	6.5
Petit Menan*[1]	42	9	26.5	.....	.....
Rumford Falls	54	−7	24.0	1.95	10.5
Winslow	59	−2	29.4	1.90	3.5
Maryland.					
Annapolis	65	8	38.2	1.60	2.0
Bachmans Valley	63	0	31.8	2.80	1.0
Boettcherville	64	5	33.4	2.18	1.5
Boonsboro *a*	66	3	34.6	1.96	T.
Cambridge	68[e]	15[e]	39.9[e]	1.73	0.3
Chase	67	0	32.6	1.15	1.0
Chestertown	67	9	37.2	1.28	1.5
Chewsville	65	3	34.1	2.26	.....
Clearspring	65	4	32.1	2.35	0.2
Coleman	65	.....	.....	1.10	1.5
Collegepark	64	−5	34.4	1.62	1.2
Cumberland	69	8	37.4	2.09	1.1
Darlington	64	5	34.7	1.59	0.8
Deerpark	58	−3	27.8	2.73	13.0
Easton	65	8	36.6	1.42	2.0
Ellicott City	66	2	34.6	1.59	3.0
Fallston	62	4	34.9	1.70	1.0
Frederick	65	5	36.0	2.20	0.8
Frostburg	59	.....	.....	2.88	7.5
Grantsville	59	−3	28.5	2.85	13.5
Greenspring Furnace	63	6	33.4	2.15	0.2
Hagerstown	65	5	34.8	.....	.....
Hancock	61	5	33.6	2.24	.....
Jewell	65	1	37.8	1.62	1.5
Johns Hopkins Hospital	67	7	35.1	1.40	1.0
Laurel	67	5	35.8	1.72	1.0
Mardela Springs	.....	.....	.....	0.83	3.0
Mount St. Marys Coll	64[d]	1[d]	33.8[d]	2.05	0.5
Newmarket	64	2	34.4	1.98	0.8
Pocomoke	68	8	42.0	0.80	3.0
Princess Anne	67	−3	37.8	1.39	3.0
Queenstown	65	7	36.2	1.43	3.5
Rockhall *b*	66	11	37.9	1.03	0.7
Sandy Point	62	10	41.3	1.30	2.0
Sharpsburg	65	6	34.7	2.05	0.5
Smithsburg *b*	63	3	34.7	2.46	1.8
Solomons	65	10	40.8	1.48	3.2
Sudlersville	68	8	39.0	1.59	1.0
Sunnyside	56	−6	26.0	4.63	20.2
Taneytown	65	4	34.0	2.43	0.5
Van Bibber	63	5	33.8	1.85	1.9
Westernport	58	6	30.6	1.73	2.6
Westminster	61	3	32.2	.....	.....
Woodstock	66	5	33.6	1.51	2.1
Massachusetts.					
Adams	60	2	31.4	.....	.....
Amherst	62	2	31.0	2.20	T.
Attleboro	.....	.....	.....	2.21	T.
Bedford	62	0	31.7	0.99	T.
Bluehill (summit)	62	1	32.7	1.89	T.
Cambridge	66	4	34.6	1.51	.....
Chestnuthill	65	2	33.8	1.75	.....
Cohasset	.....	.....	.....	1.41	.....
Concord	64	1	31.4	1.72	T.
Dudley*[1]	60	−3	31.5	1.75	T.
East Templeton*[1]	55	0	28.5	1.70	0.2
Fallriver	58	6	35.2	1.43	T.
Fitchburg *a*[1]	58	2	30.3	2.03	0.2
Fitchburg *b*	63	1	30.7	1.76	0.8
Framingham	63	1	34.5	1.71	.....
Groton	63	1	30.2	1.80	0.5
Hyannis*[1]	55	4	34.9	1.27	3.2
Jefferson	.....	.....	.....	2.12	1.0
Lawrence	63	2	32.2	1.51	T.
Leeds	60	−4	29.7	2.65	T.
Leicester	60	−1	29.3	1.32	T.
Leominster	.....	.....	.....	1.61	0.2
Lowell *a*	63	3	32.0	1.68	.....
Lowell *b*	64	2	32.0	.....	.....
Ludlow Center	64	0	28.0	1.96	.....
Middleboro	63	1	32.8	1.33	T.
Monson	62	−1	31.4	2.52	.....
New Bedford *a*	58	9	35.8	1.99	1.0
New Salem	58	−4	28.8	2.30	1.4
Pittsfield	57	0	28.9	2.60	1.2
Plymouth*[1]	61	0	31.8	1.86	0.5
Princeton	.....	.....	.....	2.21	1.5
Provincetown	68	8	38.0	0.93	T.
Salem	.....	.....	.....	1.52	.....
Somerset*[1]	66	0	34.8	0.88	T.
South Clinton	.....	.....	.....	2.10	T.
Springfield Armory	64	5	32.6	1.67	0.5
Sterling	.....	.....	.....	1.70	0.5
Taunton *c*	62	−4	32.6	1.47	T.
Webster	.....	.....	.....	1.77	.....
Westboro	65	2	33.0	1.49	0.0

TABLE II.—*Climatological record of voluntary and other cooperating observers.*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
	°	°	°	*Ins.*	*Ins.*
***Massachusetts*—Cont'd.**					
Weston	65	5	33.4	1.51	T.
Williamstown *[1]	59	2	28.7	2.29	0.8
Winchendon	.....	.....	.....	2.00	0.5
Worcester *b*	63	2	32.6	1.69	T.
Michigan.					
Adrian	59	— 5	26.6	2.39	6.0
Agricultural College	56	— 7	25.0	1.51	3.6
Allegan [h]	64	5	31.4	1.85	8.5
Alma	57	— 6	26.3	1.76	5.2
Ann Arbor	58	— 7	26.7	2.07	5.5
Arbela	62	—10	28.4	2.23	1.0
Baldwin	55	.....	.....	2.45	10.0
Ball Mountain	56	— 3	27.2	3.02	4.4
Battlecreek	57	— 3	27.6	2.50	9.4
Bay City	57	— 7	26.6	1.95	2.7
Berlin	54	— 6	25.2	1.69	7.4
Berrien Springs	59	0	29.0	5.35	39.0
Big Rapids	55	—15	25.2	3.21	3.5
Birmingham	55	— 3	26.0	2.56	3.2
Boon	55	—21	23.2	4.06	18.0
Calumet	46	— 5	20.1	4.85	42.5
Carsonville	51	— 3	26.8	0.55	4.5
Charlevoix	51	4	29.0	2.65	9.0
Cheboygan	52	— 7	24.3	3.32	7.5
Clinton	59	— 7	28.1	2.07	4.8
Coldwater	57	— 4	27.4	4.23	17.5
Eagle Harbor	48	— 1	24.4	5.28	.....
East Tawas	48	— 8	25.4	0.70	.....
Eloise	57	— 5	27.7	2.27	3.2
Ewen	.....	.....	.....	2.14	22.2
Fairview	57	— 7	26.8	1.62	8.9
Fitchburg	56	—10	26.4	1.89	9.5
Flint	.....	— 1	.....	1.16	2.0
Frankfort	50	7	25.3	2.36	15.5
Gladwin	56	—12	25.8	2.75	6.5
Grand Rapids	60	2	29.6	3.04	7.2
Grape	60	— 6	28.0	2.46	5.5
Grayling	54	—21	24.0	1.28	10.3
Hanover	57	— 8	27.1	1.94	12.0
Harbor Beach	54	1	27.4	2.16	5.8
Harrisville	47	—10	24.0	1.84	3.6
Hart	57	6	28.4	2.36	9.0
Hastings	58	— 9	27.1	1.95	7.9
Hayes	51	— 2	27.9	1.11	2.5
Highland Station	.....	.....	.....	2.27	7.0
Hillsdale	58	— 4	26.9	2.77	12.5
Holland *[9]	57	8	31.6	.....	.....
Howell	58	— 7	27.2	0.78	T.
Humboldt	42	—11	16.3	1.28	5.0
Ionia	57	— 5	27.4	1.70	6.0
Iron Mountain	50	—12	19.6	1.57	12.6
Iron River	52	—26	18.6	1.95	14.5
Ishpeming	41	—12	18.6	2.65	21.8
Ivan	54	—16	23.1	2.96	21.5
Jackson	58	— 5	27.4	1.69	6.5
Jeddo	55	— 4	25.2	2.45	7.6
Kalamazoo	57	0	27.8	3.27	13.8
Lake City	55	—19	24.2	1.65	6.5
Lansing	58	— 4	26.6	1.61	5.0
Lapeer	57	9	29.5	.....	.....
Lathrop	46	—10	20.2	1.65	13.0
Lincoln	58	—10	24.5	1.70	3.5
Ludington	55	3	29.2	3.19	6.3
Luzerne	54	—18	22.7	1.87	4.5
Mackinaw	47	— 9	25.2	3.35	6.0
Madison	58	— 5	27.4	2.26	6.2
Mancelona	55	—18	22.2	3.58	34.0
Manistique	44	— 6	24.4	1.99	4.7
Menominee	43	— 6	23.4	0.26	T.
Middle Island *[10]	46	— 2	26.5	.....	.....
Mottville	58	— 2	27.0	2.66	18.1
Mount Clemens	54	— 3	27.0	1.75	T.
Mount Pleasant	57[f]	— 7[f]	29.0[f]	2.16	0.8
Muskegon	57	3	29.6	3.50	7.0
Newberry	43	—12	20.3	0.85	9.0
North Manitou Island *[10]	60	— 6	27.4	.....	.....
Northport	54	4	28.0	2.82	19.5
Old Mission	52	— 2	27.0	3.77	16.0
Olivet	57	— 5[c]	27.4	1.33	9.0
Omer	52	— 8	24.0	0.80	.....
Ovid	58	— 4	27.0	1.28	2.5
Owosso	58	— 8	26.8	1.79	5.0
Petoskey	50	— 8	26.2	3.36	10.5
Plymouth	62	.....	.....	3.12	3.0
Port Austin	55	2	27.6	1.17	3.5
Reed City	64	—16	29.0	1.86	3.8
Rogers	55	— 6	25.8	2.80	10.7
Romeo	54	— 5	30.2	2.68	5.0
Saginaw	57	— 5	27.8	1.50	2.2
St. Ignace	48	—14	23.2	3.17	3.0
St. Johns	57	— 3	28.4	1.46	2.3
St. Joseph	59	8	31.4	3.81	14.0
Somerset	57	— 5	26.4	1.69	8.0
South Haven	58	— 7	30.4	4.68	29.9
Stanton	58	10	27.7	.....	.....
Thomaston	.....	.....	.....	4.10	41.0
***Michigan*—Cont'd.**					
Thornville	55	— 6	27.2	2.13	9.5
Traverse City	50	— 4	27.4	4.52	23.9
Vandalia	57	— 2	28.0	5.39	32.8
Vassar	57	5	27.0	1.09	0.2
Wasepi	58	— 3	27.0	2.71	13.5
Waverly	58	3	29.0	3.10	12.3
Wetmore	48	— 9	19.4	2.46	23.0
Whitecloud	57	— 8	27.2	1.61	4.5
Ypsilanti	59	— 7	27.7	2.85	7.5
Minnesota.					
Ada	42	—17	11.8	0.48	6.0
Albert Lea	47	— 9	21.4	0.85	3.0
Alexandria	46	—11	17.6	0.40	4.0
Ashby	45	—11	17.6	0.17	1.6
Beardsley	51	—15	17.2	0.10	0.9
Bird Island	50	—11	19.3	1.62	4.0
Blooming Prairie	46	—11	18.7	0.70	1.5
Brainerd	49	—12	16.5	1.14	4.0
Caledonia	46	—19	17.8	4.05	20.0
Camden	48	— 6	21.8	0.33	0.8
Collegeville	48	— 8	22.2	0.54	2.1
Crookston	41	—16	13.5	0.33	3.4
Currie	52	—11	18.6	0.40	....
Deephaven	.....	.....	.....	1.15	.....
Detroit City	42	—18	11.2	0.65	6.5
Faribault	49	—11	20.6	0.65	T.
Farmington	49	—15	18.6	1.13	2.3
Fergus Falls	45	—14	15.0	0.20	2.0
Glencoe	50	—12	19.4	.....	.....
Grand Meadow	45	—12	16.0	0.98	8.0
Hallock	41	—22	9.6	0.23	2.3
Lake City	47	— 9	21.0	1.32	3.5
Lake Jennie	63	—10	19.5	1.10	T.
Lakeside	50	—12	16.6	1.34	.....
Lake Winnibigoshish [1]	47	—17	14.9	0.63	5.8
Leech	48	—20	13.8	0.42	4.4
Leroy	49	—12	20.1	1.95	13.0
Long Prairie	45	—11	16.2	0.83	2.8
Luverne	47	—14	18.7	1.49	7.4
Lynd	61	—21	20.7	0.42	3.0
Mapleplain *[1]	50	—12	19.2	1.18	2.4
Milan	53	—16	18.2	0.35	1.0
Minneapolis *a*	49	—12	18.5	1.44	1.3
Minneapolis *b* [1]	50[e]	—12	19.7	1.44	0.9
Minnesota City *[1]	48	—11	20.9	1.38	12.5
Montevideo	52	—15	17.1	0.75	1.5
Morris	48	—12	17.9	0.20	T.
Mount Iron	43	—20	13.2	1.40	6.0
Newfolden	42	—21	10.2	0.24	2.4
New London	46	—11	16.6	0.46	T.
New Richland *[1]	48	—16	19.9	.....	.....
New Ulm	50	— 9	20.2	1.02	1.2
Park Rapids	42	—16	13.3	0.31	3.1
Pine River	45	—13	15.8	0.94	6.3
Pipestone	46	—18	17.6	0.44	1.7
Pleasant Mounds	54[d]	— 8[d]	20.8[d]	0.78	0.2
Pokegama Falls	49	—25	12.8	0.65	4.7
Redwing	.....	.....	.....	1.12	2.0
Reeds	.....	.....	.....	1.57	3.1
Rolling Green	51	—10	20.0	0.80	0.5
St. Charles	48	—14	18.4	2.29	17.0
St. Cloud	52	—10	18.7	0.36	T.
St. Peter	49	— 6	22.2	1.05	0.5
Sandy Lake Dam	47	—18	15.2	0.58	3.5
Shakopee	50	—10	20.6	1.03	1.2
Tower	46	—18	16.0	1.15	7.5
Two Harbors	.....	—15	.....	1.77	7.0
Wabasha *[1]	45	— 8	20.0	1.65	9.0
Willmar	48	—10	17.8	1.30	T.
Willow River	49[g]	—16	17.4[d]	0.94	1.2
Winnebago City	56	— 6	20.8	1.01	T.
Worthington	55[c]	—12[c]	21.1[c]	1.03	1.5
Zumbrota *[1]	48	—14	20.5	....	.....
Mississippi.					
Aberdeen	65	18	39.8	6.70	3.0
Americus	79	28	52.3	4.67	
Austin	69	15	41.9	5.40	1.0
Batesville	63	15	38.2	7.04	1.0
Bay St. Louis	71	31	51.4	3.98	T.
Biloxi	75	30	52.1	3.50	
Booneville	65	16	41.2	5.89	
Brookhaven	78	21	48.3	4.75	
Canton	76	21	47.2	8.55	1.0
Columbus *a*	.....	.....	.....	8.40	0.8
Columbus *b*	71	21	43.8	6.71	
Crystalsprings	77	23	47.1	7.96	T.
Edwards	72	25	47.4	10.70	3.0
Fayette	75	24	49.1	9.95	T.
Greenville *a*	66	22	43.0	4.22	2.5
Greenville *b*	77	21	45.0	4.23	2.5
Greenwood [1]	69	26	46.0	7.76	3.0
Hattiesburg	74	27	48.4	6.52	
Hernando	72	20	40.2	.....	
Holly Springs	69	17	40.8	6.51	T.
Jackson	72	25	47.6	4.93	2.5
Kosciusko	70	19	45.4	7.70	4.0
***Mississippi*—Cont'd.**					
Lake	70	19	50.0	4.04	
Leakesville	78	23	49.3	4.63	
Logtown	75	29	51.9	3.34	
Louisville	67	13	44.7	8.69	4.0
Macon	68	20	44.6	4.26	2.0
Magnolia	76	23	49.8	3.94	
Natchez	78	26	49.8	9.70	
Okolona	77	20	45.6	.....	
Palo Alto	66	20	43.9	6.82	2.5
Pontotoc	65	17	42.0	5.11	1.0
Port Gibson	77	21	48.3	11.42	
Ripley	66	13	40.6	6.50	
Stonington *[1]	78	26	47.8	.....	
Thornton	.....	.....	.....	6.00	2.0
Tupelo	.....	.....	.....	3.72	
University	64[c]	16[c]	41.3[c]	4.82	1.0
Watervalley *[1]	64	17	42.4	7.41	2.0
Waynesboro	73	24	49.6	3.45	T.
Windham	77	22	47.5	5.76	T.
Woodville	72	25	49.6	11.39	
Yazoo City	77	22	46.4	4.75	0.2
Missouri.					
Appleton City	61	— 8	31.0	1.88	9.8
Arthur *[3]	.....	— 9	28.8	1.71	9.0
Avalon	55	— 5	26.6	1.97	10.2
Bethany	56	— 5	26.1	2.41	6.0
Birchtree	68	7	34.6	2.03	1.0
Boonville	.....	.....	.....	1.99	9.4
Brunswick	63	— 2	26.3	2.28	12.5
Carrollton	53	— 1	29.0	2.10	2.5
Conception	58	0	29.0	1.45	2.2
Cook Station	63	—10	31.4	2.10	6.5
Cowgill *[5]	53	— 2	27.0	2.07	13.0
Darksville	54	— 2	27.2	1.65	7.5
Downing	.....	.....	.....	1.67	3.0
East Lynne *[3]	.....	—10	29.2	2.24	11.5
Edgehill *[5]	60	4	30.6	2.61	4.5
Edwards	64	—13	32.2	2.39	12.0
Eightmile *[1]	60	— 8	31.0	1.88	10.4
Eldon	65	—10	30.8	2.67	16.0
Elmira	60	.....	.....	1.79	5.8
Fairport	.....	.....	.....	1.68	3.6
Fayette	54	— 5	27.3	2.17	13.6
Fulton	.....	.....	.....	2.34	0.5
Galena	.....	.....	.....	1.83	0.4
Gallatin *[1]	54	0	27.8	1.71	6.5
Gayoso	65	9	37.4	4.54	0.2
Glasgow	56	— 4	27.5	2.24	12.0
Gorin	.....	.....	.....	1.62	.....
Halfway	63	— 7	32.9	1.77	7.0
Harrisonville	62	— 9	28.9	1.65	7.6
Hazlehurst	.....	.....	.....	2.45	10.0
Hermann	.....	.....	.....	1.53	1.1
Houston	60	1	33.5	1.11	2.0
Houstonia (near)	.....	.....	.....	2.49	12.8
Irena	.....	.....	.....	1.99	5.0
Ironton	63	2	32.0	2.81	2.5
Jackson *[3]	59	8	31.2	3.36	1.0
Jefferson City	70	— 6	34.2	2.28	10.0
Kidder	58	— 3	26.3	1.93	7.1
Lamar	64	— 6	34.2	1.70	9.2
Lamonte	.....	.....	.....	1.50	9.0
Lebanon	68	— 4	32.2	2.48	9.5
Lexington	67	0	30.7	2.05	8.0
Liberty	55	— 5	28.0	1.79	4.8
Louisiana	61	— 5	31.0	1.65	5.5
McCune *[1]	65	— 7	28.9	2.26	6.0
Macon	56	— 3	28.5	1.33	6.6
Marblehill	62	3	33.3	2.85	1.8
Marshall	55	— 7	26.0	1.86	7.8
Maryville	52	— 3	24.7	2.47	7.2
Mexico	62	— 3	29.2	1.37	9.6
Miami *[5]	54	— 3	27.6	2.21	11.0
Mineralspring	65	2	34.0	1.82	0.2
Montreal	63	—11	31.6	2.71	10.2
Mount Vernon	63	— 2	35.8	2.30	2.5
Neosho	68	2	35.7	1.92	2.0
Nevada	.....	.....	.....	1.69	8.0
New Haven	66	1	30.6	2.27	10.5
New Madrid	61	14	37.6	6.10	1.5
New Palestine	59	— 1	30.4	1.90	6.9
Oakfield	65	1	33.2	2.22	7.6
Olden	57	6	34.0	1.95	1.0
Oregon *a*	60	9	27.7	2.13	5.5
Oregon *b*	56	3	29.4	1.75	4.5
Palmyra *[5]	60	0	28.7	1.75	10.0
Phillipsburg *[1]	61	0	30.8	2.34	6.4
Pickering *[3]	54	0	24.6	2.45	4.2
Potosi	62	—12	27.5	2.30	9.0
Princeton	57	— 2	26.6	1.97	2.5
Rhineland	68	— 7	31.0	2.05	10.4
Richmond	55	0	29.0	2.00	5.5
Rockport	.....	.....	.....	1.50	.....
Rolla	.....	.....	.....	1.81	10.0
St. Charles	61	0	30.7	2.76	14.5
St. Joseph	.....	.....	.....	1.46	4.8

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
	°	°	°	*Ins.*	*Ins.*
Missouri—Cont'd.					
Sarcoxie *[3]	.....	0	28.9	1.51	3.0
Seymour	56	1	31.4	1.67	0.5
Shelbina	.....	.....	.....	1.80	6.0
Sikeston	65	10	36.2	4.72	1.6
Steffenville	57	— 4	29.2	2.41	11.0
Stellada	60	—10	29.8	2.31	15.0
Sublett	64	— 5	26.3	2.20	8.0
Trenton	52	— 1	27.4	1.80	4.5
Unionville	54	0	25.6	1.60	4.0
Vichy	75	2	33.1	2.55	10.2
Warrensburg	58	— 6	29.6	2.19	11.7
Warrenton	61	— 2	28.8	1.77	12.0
Wheatland	.....	.....	.....	2.92	10.5
Willowsprings	59	5	33.9	0.50	0.2
Wylie	72	7	37.0	2.20	T.
Zeitonia	68	5	35.2	1.96	0.8
Montana.					
Adel	49	—25	25.2	1.08	10.8
Boulder	52	—14	23.4	1.05	6.5
Butte	50	0	27.6	1.10	11.0
Canyon Ferry	55	—10	24.6	0.47	7.2
Chinook	51	—26	19.3	1.47	9.0
Corvallis	50	—10	26.3	0.50	5.0
Crow Agency	60	—12	23.2	0.87	5.5
Dearborn Canyon	51	—24	23.0	0.80	8.0
Deerlodge	50	— 8	24.5	.....	.....
Dell	46	— 4	19.3	0.01	0.1
Ekalaka	55	—14	21.4	0.49	5.0
Fort Benton	57	—18	25.4	1.60	16.0
Fort Keogh	55	—15	21.8	0.36	2.6
Fort Logan	48	—26	20.2	0.82	.....
Glasgow	47	—30	14.7	0.69	.....
Glendive	55	—20	17.8	0.90	9.0
Glenwood	49	—16	25.5	1.28	.....
Greatfalls	56	—16	26.2	0.80	8.0
Harlem	54	—28	20.6	0.47	6.0
Kipp	53	—26	18.5	2.20	20.5
Livingston	55	.....	.....	1.20	12.0
Manhattan	55	—10	23.5	0.51	5.0
Martinsdale	50	—17	25.8	0.80	8.0
Marysville	46	—16	24.5	0.74	13.0
Missoula	51	— 6	28.2	1.23	11.0
Ovando	45	—15	18.6	1.76	18.6
Parrot	55	— 5	26.6	0.36	3.6
Plains	50	4	30.6	0.90	9.0
Poplar	47	—20	14.8	0.40	4.0
Ridge	50	—11	20.4	1.00	10.0
Troy	52	1	30.0	2.57	12.0
Twin Bridges	53	— 7	25.2	.....	.....
Utica	52	—20	20.0	0.88	9.5
Yale	53	—19	25.3	1.30	13.0
Nebraska.					
Agee	.....	.....	.....	0.10	1.0
Albion [k]	57	— 2	24.5	1.06	3.0
Alliance	.....	.....	.....	0.25	2.5
Alma	65	2	28.4	0.78	0.3
Ansley	60	— 9	24.8	0.99	5.5
Arapaho *[1]	64	4	28.6	0.40	1.5
Arborville *[1]	54	2	26.0	1.15	2.0
Ashland *a*	60	— 2	25.6	1.74	1.0
Ashland *b* *[1]	55	5	25.4	1.59	2.4
Ashton	.....	.....	.....	1.16	4.5
Auburn	55	— 2	26.6	2.06	7.0
Aurora *[1]	52	5	25.8	1.84	.....
Bartley	.....	.....	.....	0.15	0.5
Beatrice	55	0	25.9	1.60	6.5
Beaver	65	3	30.2	0.66	0.3
Bellevue	.....	.....	.....	1.63	2.0
Benedict	.....	.....	.....	1.50	2.5
Benkleman	.....	.....	.....	0.30	3.0
Blair	55	— 5	23.9	1.51	2.2
Bluehill	.....	.....	.....	0.15	2.5
Bradshaw	.....	.....	.....	1.80	4.9
Brokenbow *[1]	60	— 2	24.9	0.66	4.5
Burwell	.....	.....	.....	0.95	6.5
Callaway	60	— 2	27.5	0.63	5.5
Camp Clarke	60	— 5	26.8	0.15	1.5
Central City	.....	.....	.....	1.35	4.5
Chester	.....	.....	.....	1.36	6.0
Clatonia	58	— 5	25.0	2.25	6.5
Cody	.....	.....	.....	0.50	.....
Columbus	57	0	25.8	1.12	2.0
Creighton	55	— 7	20.8	0.92	.....
Crete	58	6	28.9	1.59	5.5
Culbertson	.....	.....	.....	0.11	0.9
David City	57	1	24.1	1.80	4.5
Dawson	58	0	28.6	1.33	.....
Eden	.....	.....	.....	1.87	4.9
Edgar *a*	.....	.....	.....	0.94	2.0
Elba	.....	.....	.....	1.86	4.5
Ericson *[1]	.....	.....	.....	1.94	3.5
Ewing	.....	.....	.....	0.58	1.0
Fairbury	61	— 2	26.2	1.56	10.0
Fairmont	62	3	26.6	1.16	0.1
Fort Robinson	61	— 4	26.0	0.69	5.9
Fremont	57	— 6	25.4	1.53	2.0
Nebraska—Cont'd.					
Geneva	56	3	26.4	1.57	3.9
Genoa	57	2	24.4	1.63	3.4
Gering	57	— 3	27.2	0.13	1.3
Gothenburg	60	2	26.9	0.60	4.0
Grand Island *b*	62	— 1	26.8	1.59	4.2
Grand Island *c*	59	— 2	25.0	1.25	2.5
Greeley	.....	.....	.....	1.28	4.8
Haigler	.....	.....	.....	0.50	5.0
Hartington	53	—10	20.3	1.26	4.5
Harvard	58	3	25.0	1.20	2.0
Hastings *[1]	57	1	24.6	1.02	1.0
Hayes Center	.....	.....	.....	0.11	1.1
Hay Springs	57	— 5	23.8	0.85	8.2
Hebron	59	— 1	27.6	1.41	4.1
Holdrege *[1]	60	4	30.3	0.95	2.0
Hooper *[1]	54	— 3	23.5	1.29	0.8
Hubbard	.....	.....	.....	2.00	T.
Imperial	65	— 1	28.4	0.08	1.1
Johnstown	.....	.....	.....	0.25	1.0
Kearney	.....	.....	.....	1.00	2.0
Kennedy	57	—10	23.4	0.88	8.0
Kimball	62	1	28.4	0.30	3.0
Kirkwood *[1]	57	— 5	19.8	0.15	0.9
Lexington	66	0	27.2	0.95	5.5
Lincoln *d*	54	5	26.9	1.74	4.9
Lodgepole	64	— 4	26.2	0.32	3.2
Loup	.....	.....	.....	1.00	3.0
Lynch	59	— 8	23.8	0.14	1.5
Lyons	.....	.....	.....	1.35	1.5
McCook	.....	.....	.....	0.10	1.0
McCool	.....	.....	.....	1.31	4.5
Madison	56	— 2	24.3	1.21	3.3
Madrid *[5]	65	— 5	26.8	0.10	1.0
Marquette	.....	.....	.....	1.26	3.5
Merriman	.....	.....	.....	0.10	0.2
Minden *a*	61	3	25.8	1.00	4.8
Minden *b*	.....	.....	.....	0.90	.....
Monroe	.....	.....	.....	1.26	1.3
Nebraska City *b*	.....	.....	.....	1.85	3.5
Nebraska City *c*	53	— 1	25.7	1.41	.....
Nemaha *[1]	58	0	26.7	1.05	2.0
Nesbit	59	— 5	25.7	0.45	4.0
Norfolk *b*	55	— 7	23.2	1.35	3.5
North Loup	57	— 4	24.7	1.52	6.2
Oakdale	56	— 3	22.6	0.74	1.1
Odell	.....	.....	.....	1.45	2.5
O'Neill	56	— 4	23.2	0.15	1.5
Ord	.....	.....	.....	0.56	.....
Osceola	.....	.....	.....	1.34	1.4
Ough	.....	.....	.....	0.10	1.0
Palmer *b* *[1]	48	0	22.0	1.00	5.0
Palmyra	.....	.....	.....	1.50	4.8
Plattsmouth *b*	.....	.....	.....	1.31	0.9
Pleasanthill	.....	.....	.....	1.57	4.9
Ravenna *a*	60	— 2	25.7	1.14	3.5
Ravenna *b*	.....	.....	.....	0.78	.....
Redcloud *b* *[1]	56	9	28.2	1.17	1.2
Republican *[1]	58	6	28.6	0.62	T.
Rulo	.....	.....	.....	1.81	2.5
St. Libory	.....	.....	.....	1.67	5.5
St. Paul	58	— 1	25.7	1.26	1.9
Salem *[1]	60	2	27.7	1.45	6.0
Santee	57	—11	23.1	0.78	3.8
Sargent	.....	.....	.....	0.86	5.0
Schuyler	.....	.....	.....	1.50	1.5
Seneca *[1]	60	—10	22.6	0.62	6.2
Seward *[1]	53	6	24.8	1.31	2.9
Smithfield	.....	.....	.....	0.62	T.
Spragg	.....	.....	.....	0.81	8.0
Stanton *[1]	57	— 8	21.8	1.07	1.5
State Farm	57	0	26.8	1.29	2.5
Strang	.....	.....	.....	1.60	4.5
Stratton	.....	.....	.....	0.14	1.1
Superior *[5]	54	6	28.0	1.15	2.0
Syracuse	.....	.....	.....	1.40	2.5
Tablerock	.....	.....	.....	1.72	5.9
Tecumseh *b*	56	1	26.0	1.50	2.0
Tecumseh *c*	.....	.....	.....	1.67	3.2
Tekamah	57	— 7	25.4	1.74	4.0
Thedford	.....	.....	.....	0.70	7.0
Turlington	54	1	25.2	2.02	5.9
Valentine	58	—20	20.8	0.40	.....
Valparaiso	.....	.....	.....	1.27	1.5
Wakefield	55	— 8	22.9	0.95	1.4
Wallace	.....	.....	.....	0.20	2.0
Weeping Water *[1]	48	— 3	22.5	2.04	6.5
Westpoint	55	— 7	24.2	1.48	.....
Whitman	.....	.....	.....	0.55	5.5
Wilber *[1]	58	2	25.4	1.54	5.5
Willard	.....	.....	.....	0.17	2.0
Wilsonville *[1]	62	— 1	27.5	0.50	1.0
Wisner	.....	.....	.....	0.99	1.8
Wymore *[1]	46	2	21.6	1.03	2.0
York *[1]	56	3	25.3	1.55	5.5
Nevada.					
Battle Mountain *[1]	46	4	24.7	0.75	7.5
Nevada—Cont'd.					
Beowawe *[1]	53	—13	21.6	0.90	9.0
Candelaria	65	9	37.0	0.30	3.0
Carson City	66	13	32.8	1.92	7.5
Clover Valley	.....	.....	.....	2.39	12.5
Elko (near)	68	—18	27.9	1.75	17.5
Ely	55	—15	23.3	1.35	13.5
Fenelon	.....	.....	.....	0.60	6.0
Golconda *[1]	65	10	33.4	0.33	0.5
Halleck *[1]	57	—17	17.6	1.70	17.0
Hawthorne *b*	65	12	35.2	0.56	2.8
Hot Springs *[1]	60	0	32.2	0.70	7.0
Humboldt *[1]	47	10	32.0	0.75	2.5
Lewers Ranch	63	9	32.2	5.46	23.5
Los Vegas	61	22	41.5	0.00	
Lovelocks *[1]	58	10	31.4	0.64	1.0
McGill	60	—18	24.8	0.75	4.5
Martins	65	15	33.6	1.40	
Mill City *[1]	56	12	33.2	0.07	0.7
Monitor Mill	54	—10	24.8	1.43	13.5
Palisade *[1]	58	—12	22.7	1.20	12.0
Palmetto	65	0	31.6	0.60	4.0
Reno State University	60	13	31.5	1.69	.....
Silverpeak	67	5	34.2	0.45	3.0
Sodaville	63	11	33.8	0.20	2.0
Tecoma	.....	.....	.....	0.60	6.0
Toano *[1]	58	— 9	23.9	0.60	6.0
Tuscarora	50	2	26.4	1.23	11.5
Tybo	51	7	29.8	0.97	14.0
Verdi *[1]	68	10	34.3	2.05	8.5
Wadsworth *[1]	66	8	31.4	1.95	10.0
Wells	48	—22	18.6	0.74	.....
Whiterock	56	—16	28.2	1.01	12.2
New Hampshire.					
Alstead	.....	.....	.....	2.58	2.0
Berlin Mills	55	—14	24.4	2.91	12.0
Bethlehem	57	— 8	25.0	1.72	5.5
Brookline *[1]	60	0	29.6	1.87	0.4
Claremont	60	1	29.2	1.78	1.3
Concord	60	— 2	28.6	1.35	0.6
Durham	63	0	31.3	1.64	.....
Grafton	59	—14	25.1	1.42	2.0
Hanover	60	— 2	27.6	1.85	0.8
Keene	61	— 5	29.0	1.71	0.6
Littleton	57	— 3	25.4	2.46	4.6
Nashua	64	1	30.5	1.35	T.
Newton	65	0	30.8	1.68	T.
North Conway	58	— 9	26.4	3.10	6.5
Peterboro	61	— 4	28.2	1.74	0.6
Plymouth	58	— 6	25.4	1.78	4.0
Sanbornton	58	— 3	26.9	1.43	4.0
Stratford	59	— 8	24.8	2.08	9.0
Warner	.....	.....	.....	1.72	6.0
New Jersey.					
Asbury Park	61	4	37.2	1.68	0.3
Bayonne	63	9	36.2	1.88	0.3
Belvidere	62	.....	.....	2.59	T.
Bergen Point	62	9	36.6	2.78	0.2
Beverly	69	6	36.0	1.73	0.7
Billingsport *[1]	65	6	35.4	1.76	0.5
Boonton	.....	.....	.....	1.69	.....
Bridgeton	65	8	37.4	1.91	0.5
Camden	66	7	35.9	1.74	0.5
Cape May C. H.	63	11	38.8	1.66	0.4
Charlotteburg	59	4	32.4	4.30	0.5
Chester	58	1	31.2	3.21	2.5
Clayton	67	4	36.0	1.69	0.2
College Farm	64	5	36.1	2.06	T.
Deckertown	61	3	33.4	1.74	T.
Dover	60	4	32.0	3.11	0.5
Egg Harbor City	66	2	35.2	1.88	0.5
Elizabeth	62	7	35.4	2.69	T.
Englewood	64	7	33.8	2.62	1.2
Flemington	65	3	34.2	2.50	4.0
Freehold	65	5	36.4	2.16	1.0
Friesburg	65	6	36.8	1.52	0.7
Hammonton	.....	.....	.....	1.78	1.5
Hanover	61	5	34.5	2.72	T.
Hightstown	64	7	36.0	1.92	T.
Imlaystown	66	5	37.6	1.38	0.4
Lambertville	66	6	34.1	2.17	5.4
Lebanon	.....	.....	.....	2.85	0.8
Moorestown	67	6	35.6	1.82	0.5
Mount Pleasant	.....	.....	.....	1.64	0.2
Newark	61	6	34.4	2.44	0.4
New Brunswick	64	4	36.0	2.09	0.4
Ocean City	59	4	37.3	1.87	1.0
Oceanic	65	5	36.4	2.23	0.1
Paterson	61	8	36.0	2.82	0.5
Perth Amboy	63	6	36.8	1.90	T.
Plainfield	64	4	33.7	2.77	0.2
Rancocas	.....	.....	.....	1.88	0.5
Rivervale	61	2	34.2	2.91	1.0
Rocktown	.....	.....	.....	2.27	T.
Roseland	61	3	32.6	3.20	0.5
Salem	66	8	37.6	1.60	0.5
Somerville	63	3	35.0	2.26	0.2

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
New Jersey—Cont'd.	°	°	°	*Ins.*	*Ins.*
South Orange	60	6	34.5	2.30	T.
Staffordville				1.60	0.1
Toms River	65	0	35.3	1.71	T.
Trenton	66	7	33.6	1.86	T.
Tuckerton	64	5	36.2	1.45	1.0
Vineland	66	1	36.6	1.29	0.5
Woodbine	64	3	37.2	1.85	1.0
New Mexico.					
Albert	68	12	37.9	0.44	2.0
Alma	70	11	37.5	0.41	
Aztec	54	2	29.2	0.43	4.3
Bellranch				1.80	3.0
Bernalillo	63	11	37.0	0.02	T.
Bluewater	60	— 5	30.0	0.35	3.5
Cambray				0.18	
Clayton	64	— 5	30.8		
Deming				T.	T.
East Lasvegas	60	5	34.4	0.09	T.
Engle	67	10	38.6	0.62	6.2
Espanola	59	2	32.4	0.00	
Folsom	57	— 5	31.1	0.94	9.4
Fort Bayard	70	15	40.6	T.	T.
Fort Union	69	5	36.9	T.	T.
Fort Wingate	65	13	36.2	0.25	1.5
Gage				0.11	
Gallinas Spring	69	7	38.0	0.55	4.0
Gila	68	17	41.0	0.56	T.
Hillsboro	72	12	41.7	0.60	6.0
Las Vegas Hotsprings	62	8	36.3		
Lordsburg				T.	T.
Lower Penasco	76	11	39.2	1.05	8.0
Messilla Park	75	16	41.4	0.23	1.2
Raton	68	— 1	35.2	0.36	3.6
Roswell	77	16	40.4	1.54	3.5
San Marcial	66	11	38.3	0.26	2.0
Shattucks Ranch	70	6	38.4	1.55	14.0
Socorro	61	10	36.1	0.32	4.0
Strauss				0.00	
Whiteoaks	59	13	35.2	1.10	9.0
Winsors Ranch	61	— 7	29.9	0.39	
New York.					
Adams				4.05	
Addison	59	— 3	29.2	3.04	10.5
Akron				4.82	
Alfred				4.05	14.8
Angelica	57	—16	28.0	3.97	12.0
Appleton	61	4	31.0	2.70	12.5
Arcade	57	— 7	26.4	4.46	23.9
Atlanta	58	— 8	26.6	3.57	11.4
Auburn	57	0	29.0	3.59	14.0
Avon	61	— 8	28.4	1.92	5.0
Axton	51	—15	22.1	2.48	14.0
Baldwinsville	60	— 1	30.0	3.64	9.0
Bedford *a*	63	5	34.2	2.25	T.
Bedford *b*				2.19	
Big Sandy*[10]	57	0	28.6		
Bolivar	64	—20	26.2	4.58	17.5
Bouckville	57	— 9	25.6	3.25	16.0
Boyds Corners				2.75	
Brentwood	60	5	34.6	3.22	0.2
Brockport	60	0	29.8	4.24	16.0
Caldwell	59	— 2	28.6	4.25	8.5
Canajoharie	58	— 2	29.0	2.20	
Canton	60	—23	24.6	4.50	17.0
Carmel	60	6	33.0	2.67	2.0
Carvers Falls	63	0	28.0	2.64	3.0
Catskill	60	4	32.8	2.02	0.5
Cedarhill	60	4	32.2	1.92	2.2
Charlotte*[10]	57	8	31.5		
Chenango Forks				1.65	
Cherrycreek				7.27	
Cooperstown	58	— 2	27.9	4.10	4.0
Cortland	57	— 4	28.8	3.98	7.6
Cutchogue	58	10	35.8	1.43	T.
Dekalb Junction				4.77	
Easton				3.81	
Elmira	60	— 4	31.8	1.83	2.0
Fleming	56	0	30.2	2.10	17.0
Fort Niagara	62	2	29.2	2.35	15.8
Franklinville	58	—15	25.4	4.38	24.8
Fulton				4.32	
Garrettsville	57	— 9	28.8		
Glens Falls	60	0	29.0	3.93	5.2
Gloversville	56	— 3	24.8	3.41	8.5
Greenwich	62	— 8	29.6	2.86	4.0
Haskinville				3.19	
Hemlock	59	— 3	29.2	3.77	7.0
Honeymead Brook	59	2	30.4	1.85	0.7
Humphrey	54	— 6	28.0	6.43	31.5
Indian Lake	55	—16	22.4	4.09	24.8
Ithaca	62	— 1	30.0	2.39	4.9
Jamestown	59	3	30.0	6.99	47.0
Jay	60	— 8	26.	2.00	12.0
King Station				3.46	
Liberty	56	— 4	27.8	3.35	3.5
Littlefalls	58	— 8	26.3	3.13	13.0

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
New York—Cont'd.	°	°	°	*Ins.*	*Ins.*
Lockport	58	2	29.8	3.11	23.5
Lowville	57	—15	25.4	5.90	16.0
Lyndonville				2.82	
Lyons	64[f]	4	32.4[d]	5.14	17.0
Madison Barracks	61	—19	27.6	6.22	35.8
Mayle				3.38	
Middletown	63	5	31.9	2.22	0.5
Mohonk Lake[1]	53*	2	30.3	1.68	
Mount Morris	60	—17	27.8	3.22	16.0
Newark Valley				3.43	
New Lisbon	59	— 4	26.5	3.17	3.2
North Germantown	60	4	32.0	1.64	T.
North Hammond	58	—12	28.6	3.79	22.0
North Lake	53	—25	21.6	6.96	31.5
Number Four	54	—15	28.2	4.29	21.6
Ogdensburg	60	—16	27.8	2.43	9.0
Oneonta				3.53	
Oxford	62	— 3	28.1	3.54	7.5
Palermo	60	— 3	28.2	6.09	35.1
Penn Yan	61	— 2	29.7	2.82	11.4
Perry City	56	— 4	26.8	3.02	14.6
Phœnix				4.71	
Pine City				2.54	
Plattsburg Barracks	59	— 8	27.0	1.29	4.0
Port Byron	60	0	29.6	6.67	24.0
Port Jervis	61	0	30.8	2.01	0.0
Poughkeepsie	66	4	31.7	0.89	0.8
Primrose	61	8	33.6	2.82	0.5
Richmondville	59	— 1	28.4	2.85	1.4
Ridgeway	60	2	29.7	4.21	20.9
Rome	57	—10	26.4	3.93	
Romulus	62	0	31.1	1.75	11.3
Rose				4.36	
St. Johnsville	59	— 3	28.6	3.73	8.4
Salisbury Mills				2.23	
Saranac Lake	54	—13	22.6	2.87	15.2
Saratoga Springs	58	— 2	28.6	3.16	4.0
Schenectady	60	1	31.0	2.18	1.8
Schenevus				3.44	
Setauket	62	10	37.3	1.67	0.5
Sherwood				3.69	
Shortsville	60	— 1	28.7	2.50	10 0
Skaneateles				4.19	
South Canisteo	58	—11	27.0	4.27	25.4
Southeast Reservoir				2.37	
South Kortright	60	— 4	26.8	2.44	
Straits Corners	56	— 7	25.3	3.66	6.5
Ticonderoga	60	0	30.4	2.79	15.0
Volusia	57	1	28.6		
Wappingers Falls	62	5	33.1	1.49	2.0
Warwick				1.42	
Watertown	62	—15	28.0	7.72	87.0
Waverly	62	— 2	30.2	2.48	1.8
Wedgwood	57	— 5	27.6	2.90	11.0
West Berne	50	—10	24.6	2.58	6.0
West Chazy	59	—12	25.3	1.60	16.0
Westfield *a*	62	4	31.3	3.26	22.0
Westfield *b*	59	3	30.0	4.85	
Westfield *c*	62	6	32.9	4.89	30.0
Westpoint	64	7	36.3	2.23	0.6
Willetspoint	65	9	38.0	2.40	T.
Williamson				4.23	
North Carolina.					
Abshers	65	1	36.2	2.62	T.
Asheville				3.01	T.
Biltmore	61	6	35.8	3.17	T.
Bryson City				4.32	5.0
Chapelhill	69	10	40 8	2.24	T.
Cherryville	69	10	42.8	3.55	
Currituck				1.37	1.0
Edenton	69	12	43.5	1.93	3.5
Fairbluff				2.08	
Fayetteville	72	9	43.4	2.76	1.0
Flatrock	60	5	36.0	7.35	T.
Goldsboro	71	9	42.6	2.88	1.0
Greensboro	66	7	39.2	2.34	
Henderson	69	6	40.4	2.93	1.1
Hendersonville	63	6	36.8	7.09	T.
Highlands	57	0	32.4	10.55	T.
Horse Cove	63	4	37.4	7.51	T.
Kinston	72	8	42.5	1.77	1.0
Linville	56	— 5	30.3	7.43	9.0
Littleton	70	6	39.4	2.50	1.0
Louisburg	70	4	40.9	2.32	0.5
Lumberton	69	16	43.8	2.20	
Mana				1.88	T.
Marion	64	5	38.2	5.28	T.
Marshall	63	4	35.6	2.64	2.6
Mocksville	65	16	40.5	2.86	T.
Moncure	69	12	42.0	2.23	
Monroe	68	8	40.4	2.73	T.
Morganton	70	4	45.9	3.60	
Mountairy	63	2	35.8	0.92	0.2
Mount Pleasant	66	9	40.8	2.62	T.
Murphy				4.81	1.0
Newbern	73	12	45.6	2.16	1.5

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
North Carolina—Cont'd.	°	°	°	*Ins.*	*Ins.*
Oakridge	65	2	38.8	2.52	T.
Patterson*[1]	59	6	33.6	3.51	T.
Pittsboro	67	3	41.1	1.86	0.5
Rockingham	71[c]	12[e]	40.2[c]	2.89	T.
Roxboro	64[i]	0[e]	37.0[f]	2.49	0.5
Salem	66	2	38.2	2.23	T.
Salisbury	66	6	39.8	2.56	
Saxon	68	0	36.4	1.84	0.5
Selma	71	8	41.9	1.35	T.
Settle	58	1	35.1	1.90	T.
Sloan	72	13	44.7	2.70	T.
Soapstone Mount	67	2	38.6	3.88	T.
Southern Pines *a*	70	10	45.7	2.28	T.
Southern Pines *b*	69	10	41.9	2.32	T.
Southport	75	12	49.2	2.31	1.0
Springhope*[1]	67	13	38.4	2.97	T.
Tarboro	74[c]	2[d]	41.8[c]	3.21	2.0
Waynesville	62	4	36.6	3.51	
Weldon *a*	69	8	39.8	2.73	T.
Weldon *b*				2.72	T.
North Dakota.					
Amenia	44[c]	—19[c]	11.8[c]	0.45	4.5
Ashley	48	—21	12.1	0.30	3.0
Berlin	52	—24	13.0	0.35	3.5
Buxton	43	—17	11.6	0.07	
Churchs Ferry	42	—20	11.0	0.25	2.5
Coalharbor	47	—22	12.0	0.80	8.0
Devils Lake	51	—19	12.2	0.20	2.0
Dickinson	50	—14	17.0	0.27	2.7
Dunseith	40	—20	10.4	0.20	2.0
Ellendale	51	—18	16.0	T.	T.
Fargo	46	—19	14.6	0.33	3.3
Forman	49	—16	13.6	T.	T.
Fort Yates				0.09	
Fullerton[1]	49*	—19	13.2	0.25	2.5
Gallatin	43	—26	10.2	0.62	6.2
Glenullin	54	—23	14.8	0.63	6.3
Grafton	40	—17	9.2	0.20	2.0
Hamilton	44	—19	10.0	0.41	5.1
Hannaford	44	—21	12.2	0.24	2.4
Larimore	44	—24	11.1	0.40	4.0
McKinney	43	—24	10.2	0.70	7.0
Mayville[k]	50	—12	19.0	0.50	5.0
Medora	50	—18	17.3	0.35	3.5
Melville	45	—18	13.8	0.05	0.5
Milton	38	—20	10.0	0.20	2.0
Minnewaukon	42	—21	9.8	0.22	2.0
Minot	47	—20	15.0	0.04	0.4
Minto	43	—20	10.2	0.08	0.8
Napoleon	49	—22	12.6	0.55	7.0
New England	50	—18	16.1	0.10	1.0
Oakdale	48	—11	17.8	0.35	3.5
Pembina	42	—19	9.6	0.36	3 6
Portal	44	—21	13.8	0.25	2.5
Power	60	—20	15.2	0.20	2.0
St. John	43	—17	10.8	0.20	2.0
Steele	46	—23	13.1	0.67	6.7
Towner	43	—23	10.3	0.30	3.0
University	44	—20	12.8	0.50	5.0
Wahpeton	46	—17	15.6	0.10	1.0
Willow City	44	—22	11.4		
Ohio.					
Akron	62[j]	0[d]	28.6[d]	2.33	12.2
Annapolis	62	— 2	29.4	3.87	2.0
Ashland	61	— 2	27.3	3.10	17.5
Ashtabula	61	3	31.0	7.60	51.0
Atwater				3.02	11.0
Bangorville	61	— 7	28.0	2.98	9.0
Bellefontaine	60	0	29.8	2.23	
Bement				3.68	9.9
Benton Ridge	65	— 1	29.6	3.39	14.0
Bethany	63	— 1	31.8	2.09	4.5
Bigprairie	61	1	29.6	3.57	7.0
Binola				3.56	16.5
Bladensburg	61	— 5	28.2	3.07	4.3
Bloomingburg	62	— 1	30.2	2.81	1.0
Bowling Green	61	— 1	28.8	2.70	9.0
Cambridge	63	— 1	30.7	3.17	3.0
Camp Dennison	62	2	32.1	3.84	8.2
Canal Dover	63	2	29.9	3.59	4.0
Canton	62	1	30.0	3.36	10.7
Cardington	62	— 7	28.4	3.27	11.2
Cedarville				3.31	4.5
Celina	59	— 3	28.4	4.01	12.0
Circleville	65	— 1	30.8	2.23	0.3
Clarksville	61	0	32.2	3.42	2.5
Cleveland *a*	61	3	31.6	3.97	21.8
Cleveland *b*	64	2	29.4	3.08	12.6
Clifton	62[c]	— 4[b]	28.8[c]	2.60	4.5
Coalton	68	— 1	33.2	3.26	2.0
Colebrook	59	0	27.7	4.67	22.0
Dayton *a*				3.36	8.2
Dayton *b*	62	0	31.2	3.34	5.2
Defiance	60	— 5	28.2	3.50	9.0
Delaware	61	0	29.3	2.90	9.9
Demos	62	— 1	30.6	2.78	4.0

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Ohio—Cont'd.	°	°	°	*Ins.*	*Ins.*
Dupont	60	0	28.0	1.84	3.0
Elyria	61	3	29.5	3.00	2.7
Findlay	60	— 1	29.8	3.06	11.0
Frankfort	65	0	32.6	2.69	1.0
Garrettsville	59	— 2	28.8	4.06	20.5
Granville	61	0	28.8	3.19	3.5
Gratiot	62	— 1	30.0	3.08	4.0
Greenfield	62	4	33.2	4.00	T.
Greenhill	60	1	28.5	3.36	13.0
Greenspring	62	— 2	29.4	2.94	11.6
Greenville	59	— 2	29.1	3.16	6.5
Hanging Rock	58	— 7	32.4	3.21	2.5
Hillhouse	60	— 2	28.8	5.63	36.0
Hillsboro	62	— 2	31.4	3.39	1.5
Hiram	59	— 1	28.6	4.80	25.0
Hudson	58	0	28.4	4.19	16.0
Jacksonboro	60	— 1	30.5	3.70	7.0
Kenton	60	— 1	29.8	2.93	11.0
Killbuck	60	— 1	29.4	2.68	5.8
Lancaster	65	1	32.1	2.35	2.5
Levering	.....	.....	.....	3.19	9.5
Logan	67	2	33.6	2.75	.....
Lordstown	56	— 1	27.8	3.31	13.8
McArthur	66	— 2	31.2	2.87	2.0
McConnelsville	66	0	32.2	3.38	3.0
Mansfield	.....	.....	.....	3.39	11.5
Marietta	67	4	35.8	3.10	1.0
Marion	60	— 1	31.0	3.02	13.6
Medina	61	— 2	29.2	3.48	14.0
Milfordton	58	0[b]	....	2.78	9.5
Milligan	65	— 2	31.0	2.73	2.0
Millport	60	1	28.2	3.61	4.0
Montpelier	59	— 6	27.1	3.10	10.5
Napoleon	60	— 6	25.6	3.48	6.0
Neapolis	.....	.....	.....	3.59	7.5
New Alexandria	61	0	31.0	3.00	2.5
New Berlin	60	— 2	29.1	2.27	12.0
New Bremen	59	0	29.0	.....	.....
New Holland	63	— 1	31.0	2.99	2.2
New Paris	56	— 1	30.0	3.79	8.0
New Richmond	61	— 2	35.2	3.15	3.0
New Waterford	58	1	29.6	3.36	16.0
North Lewisburg	62	— 4	27.8	3.55	8.0
North Royalton	60	1	28.8	3.43	20.5
Norwalk	63	— 1	30.0	3.15	9.0
Oberlin	62	1	30.3	2.64	9.2
Ohio State University	62	2	30.4	2.42	5.4
Orangeville	59	0	28.3	2.90	13.0
Ottawa	61	1	29.6	3.26	9.0
Pataskala	60	— 1	29.8	3.10	5.0
Perry	.....	.....	.....	5.14	21.0
Philo	62	— 3	29.8	2.86	2.4
Plattsburg	60	0	30.0	2.90	6.0
Pomeroy	66	0	34.0	3.00	1.2
Portsmouth *a*	.....	.....	.....	3.02	T.
Portsmouth *b*	69	0	35.2	3.02	2.0
Pulse	.....	.....	.....	3.71	1.0
Richwood	60	— 5	30.1	3.46	8.5
Ridgeville Corners	60	— 7	29.3	2.58	10.0
Ripley	62	— 4	32.0	4.75	3.2
Rittman	63	0	30.2	2.66	9.5
Rockyridge	59[c]	— 5	28.4	2.90	6.5
Rosewood	60	1	29.3	4.10	9.5
Shenandoah	60	— 2	27.7	2.70	9.4
Sidney	60	0	29.6	3.33	10.8
Sinking Spring	63[e]	0[f]	31.4[g]	3.97	4.7
Somerset	.....	.....	.....	2.34	1.0
Springboro	.....	.....	.....	3.36	2.0
Strongsville	.....	.....	.....	4.81	15.5
Thurman	68	— 2	33.8	2.22	2.0
Tiffin	62	1	30.3	3.27	12.0
Upper Sandusky	60	— 3	29.2	3.60	13.0
Urbana	60	2	29.0	2.46	8.0
Vanceburg	66	— 5	33.2	2.96	2.0
Vermillion	61	— 1	29.8	2.93	13.0
Vickery	62	— 1	29.6	2.18	5.7
Walnut	.....	.....	.....	2.57	2.0
Warren	60	3	29.8	4.07	22.4
Warsaw	63	— 4	28.8	2.70	6.2
Wauseon	60	— 5	28.0	3.36	14.7
Waverly	65	— 3	32.4	3.26	2.6
Waynesville	.....	.....	.....	3.19	3.0
Wellington	61	1	29.4	2.78	9.5
Westerville	61	1	31.0	3.01	7.7
Wooster	63	— 2	29.0	2.78	9.8
Youngstown	.....	.....	.....	3.12	.....
Zanesville	.....	.....	.....	2.52	2.0
Oklahoma.					
Arapaho	67	15	37.6	1.33	0.7
Beaver	65	— 2	34.4	0.20	.....
Burnett	72	16	40.4	2.08	.....
Edmond	78[h]	15	38.5[d]	1.74	9.3
Fort Reno	66	16	36.6	2.68	T.
Fort Sill	71	18	40.4	2.44	.....
Guthrie	64	15	36.9	1.75	5.0
Hennessey	69	15	37.4	1.41	.....
Oklahoma—Cont'd.					
Hopeton	67	9	36.8	1.19	3.0
Jefferson	63	7	33.4	0.83	4.0
Kingfisher	65	17	38.4	1.09	0.5
Mangum	75	18	40.2	1.33	T.
Newkirk	63	10	34.0	1.90	5.0
Norman	62	18	39.4	1.58	1.5
Pawhuska	70	6	39.2	2.39	7.9
Perry	69	13	38.0	1.45	5.0
Prudence	69	9[e]	38.6	1.27	.....
Sac and Fox Agency	64	13	37.8	2.16	3.0
Stillwater	62	15	38.2	1.60	4.5
Waukomis	65	14	37.8	1.08	.....
Woodward	61	9	37.9	0.58	0.8
Oregon.					
Albany *b*	.....	.....	.....	5.45	0.5
Alpha	59	28	43.3	13.68	
Arlington	59[d]	18[d]	40.6[d]	1.29	T.
Ashland *b*	59	24	38.4	3.14	
Aurora *[1]	60	32	44.0	5.57	.....
Aurora (near)	59	29	41.7	6.30	T.
Bandon	58	30	48.6	10.87	
Bay City	58	30	44.6	14.38	
Brownsville *[1]	66	23	44.4	4.84	.....
Bullrun	50	31	39.7	8.70	T.
Burns (near)	54	5	31.6	2.61	0.2
Cascade Locks	56	26	40.6	11.83	2.5
Comstock *[1]	60	30	43.9	7.30	0.5
Coquille	.....	.....	.....	13.58	
Corvallis	61	29	41.6	7.57	1.0
Dayville	58	10	37.4	1.22	0.5
Ella	.....	.....	.....	0.91	5.0
Eugene	60	28	43.4	5.33	T.
Fairview	60	36	49.9	14.24	
Falls City	55	29	40.0	10.79	0.6
Forestgrove	59	27	40.0	5.73	
Gardiner	66	32	47.0	14.45	
Glenora	57	28	41.4	18.48	2.0
Government Camp	54	16	33.6	10.10	47.0
Grants Pass	56	22	40.2	7.24	
Happy Valley	55	— 1	29.2	1.72	4.0
Heppner	62	9	37.0	1.22	8.0
Hood River (near)	60	21	37.6	4.96	10.5
Irvington	59	29	44.9	5.58	T.
Jacksonville	51	24	36.4	6.73	0.2
Joseph	50	3	24.6	1.35	13.5
Junction City *[1]	70	28	46.0	6.32	0.2
Kerby	55	25	38.7	13.70	1.4
Lafayette *[1]	58	30	42.8	5.29	.....
Lagrande	49	15	32.1	1.93	12.4
Langlois	65	29	48.7	18.15	
Lonerock	61	6	32.7	1.57	1.5
McMinnville	59	30	42.0	6.38	T.
Merlin *[1]	58	26	40.8	6.90	T.
Monmouth *a* *[1]	61	30	42.7	4.78	.....
Monmouth *b*	58	28	41.8	7.33	
Monroe	63	27	42.8	7.84	2.0
Mount Angel	57	28	41.7	5.80	
Nehalem	.....	.....	.....	11.60	
Newberg	58	27	46.4	5.56	
Newbridge	47	— 5	24.0	1.71	10.0
Newport	58	20	45.5	11.67	
Pendleton	62	14	38.0	2.26	6.0
Placer	.....	.....	.....	9.62	4.5
Prineville	56	18	34.6	0.48	
Riddles *[1]	60	26	38.7	4.85	.....
Riverside	54	—21	12.4	2.06	20.0
Salem *b*	60	27	43.3	6.58	
Sheridan *[1]	60	30	41.6	5.63	.....
Silverlake	55	— 4	31.4	1.68	8.5
Silverton *[1]	56	32	44.5	6.81	T.
Siskiyou *[1]	46	20	34.8	4.79	42.0
Sparta	45	8	24.0	3.95	37.0
Springfield *[1]	59	28	42.2	4.65	.....
Stafford	58	26	41.8	7.65	
The Dalles	59	22	37.8	2.29	8.8
Toledo	68	28	47.1	4.65	
Umatilla	.....	.....	.....	0.99	1.5
Vale	50	— 9	24.0	1.36	13.5
Vernonia	58	25	40.7	6.50	
Westfork *[1]	50	24	37.7	2.95	1.0
Weston	63	6	36.5	2.47	6.5
Williams	59	21	43.2	7.00	
Pennsylvania.					
Altoona	59	0	29.9	2.70	.....
Aqueduct	66	2	35.2	2.45	0.6
Athens	61	— 1	30.4	2.57	1.2
Beaver Dam	.....	.....	.....	2.95	T.
Bethlehem	.....	.....	.....	1.37	.....
Brookville	.....	.....	.....	3.87	6.4
Browers Lock	.....	.....	.....	1.63	.....
Butler	60	1	29.4	4.19	9.2
Carlisle	.....	.....	.....	2.77	0.2
Cassandra	56	4	30.3	3.63	18.0
Cedarrun	.....	.....	.....	0.85	4.0
Centerhall	57	2	31.6	3.87	3.0
Chambersburg	63	5	32.6	2.47	0.1
Pennsylvania—Cont'd.					
Coatesville	67	2	35.0	2.16	0.5
Confluence	62	— 1	29.2	3.32	6.9
Coopersburg	64	6	36.4	1.69	0.2
Davis Island Dam	.....	.....	.....	2.48	T.
Derry Station	61	3	32.4	3.27	4.5
Doylestown	.....	.....	.....	2.68	.....
Driftwood	.....	.....	.....	4.04	.....
Duncannon	.....	.....	.....	2.95	.....
Dushore	58	— 4	28.2	5.09	4.5
Dyberry	60	— 2	28.2	1.95	1.0
East Bloomsburg	.....	.....	.....	4.10	0.5
East Mauch Chunk	64	1	32.4	2.95	0.2
Easton	62	3	34.1	2.04	0.5
Ellwood Junction	.....	.....	.....	2.50	4.0
Emporium	60	— 7	28.6	4.80	11.5
Ephrata	65	4	34.7	1.56	0.5
Everett	59	4	30.8	.....	
Forks of Neshaminy *[1]	63	6	33.8	2.26	.....
Franklin	60	— 1	30.4	3.77	9.0
Frederick	.....	.....	.....	1.68	.....
Freeport	.....	.....	.....	3.27	1.0
Girardville	.....	.....	.....	4.19	3.8
Grampian	56	— 2	27.7	3.96	10.0
Greensboro	64	.....	.....	3.53	3.0
Hamburg	63	6	37.8	2.75	0.5
Hawley	60	— 2	27.4	2.69	0.4
Hawthorn	60	1	30.2	4.25	5.5
Hews Island Dam	.....	.....	.....	2.20	.....
Huntingdon *a*	63	8	33.2	3.19	1.5
Huntingdon *b*	.....	.....	.....	2.60	1.0
Irwin	.....	.....	.....	3.66	0.5
Johnstown	60	4	31.8	4.25	7.3
Karthaus	.....	.....	.....	2.40	6.0
Keating	.....	.....	.....	3.19	5.0
Kennett Square	65	2	35.4	2.35	0.5
Lancaster[c]	73	6	34.4	.....	.....
Lawrenceville	58	— 7	26.4	2.60	4.5
Lebanon	65	4	33.0	1.75	0.4
Leroy	57	— 6	28.6	4.47	5.8
Lewisburg	63	— 1	32.4	3.98	T.
Lockhaven *a*	62	2	32.4	3.61	5.5
Lockhaven *b*	.....	.....	.....	3.56	.....
Lock No. 4	.....	.....	.....	2.78	0.7
Lycippus	61	1	32.0	3.22	6.4
Mifflin	.....	.....	.....	3.00	.....
Nisbet	.....	.....	.....	3.96	.....
Oil City	.....	.....	....	4.85	11.0
Ottsville	.....	.....	.....	1.97	.....
Parker	.....	.....	.....	4.06	3.0
Philadelphia	66	9	38.6	1.44	0.5
Quakertown	64	3	33.8	2.61	T.
Reading[2]	.....	.....	31.1	2.17	.....
Renovo *a*	.....	.....	.....	3.33	0.5
Renovo *b*	61	— 1	31.1	3.60	3.4
Saegerstown	56	—10	28.4	5.30	24.3
St. Marys	56	— 4	27.2	3.98	7.5
Salem Corners	57	— 3	29.0	2.70	3.6
Scranton	62	0	31.6	2.10	1.5
Seisholtzville	.....	.....	.....	1.75	.....
Selinsgrove *a*	61	3	32.8	2.61	0.5
Shawmont	.....	.....	.....	1.35	.....
Sinnamahoning	.....	.....	.....	1.35	5.5
Smethport	53	—11	26.8	.....	.....
Smiths Corners	.....	.....	.....	2.03	.....
Somerset	56	— 4	27.4	3.05	20.6
South Eaton	62	2	31.4	2.81	T.
State College	60	0	29.8	2.53	2.9
Sunbury	.....	.....	.....	0.95	.....
Swarthmore	61	8	34.2	.....	.....
Towanda	61	0	31.4	2.82	1.2
Troutrun	.....	.....	.....	5.80	3.5
Uniontown	63	1	33.8	3.82	7.8
Warren	52	1	29.9	6.00	23.1
Wellsboro	58	— 3	29.6	3.78	10.0
Westchester	62	4	34.6	2.17	0.8
West Newton	.....	.....	.....	2.85	0.1
Westtown[k]	61	3	31.2	.....	.....
Wilkesbarre	62	5	32.6	1.72	2.0
Williamsport	61	3	32.4	4.63	T.
York	64	3	32.3	1.18	1.8
Rhode Island.					
Bristol	59	9	36.6	1.29	T.
Kingston	61	0	33.6	1.80	T.
Lonsdale	.....	.....	.....	2.84	.....
Pawtucket	58	4	33.4	2.56	T.
Providence *a*	61	7	36.2	1.88	T.
Providence *c*	60	4	34.4	2.14	T.
South Carolina.					
Allendale	73	21	47.8	2.40	
Batesburg	70	16	44.8	4.05	
Beaufort	79	26	52.0	1.36	1.0
Blackville	74	19	46.7	2.59	1.4
Calhoun Falls	.....	.....	.....	3.29	
Camden	.....	.....	.....	2.79	
Cheraw *a*	72	14	41.6	2.80	T.
Cheraw *b*	.....	.....	.....	2.80	T.

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
	°	°	°	*Ins.*	*Ins.*
South Carolina—Cont'd.					
Clemson College	64	14	41.0	3.43	
Conway	.....	.....	.....	1.53	.....
Darlington	.....	.....	.....	2.44	0.4
Edisto	.....	.....	.....	1.91	.....
Effingham	.....	.....	.....	1.77	.....
Florence	71	16	44.0	1.70	
Gaffney	.....	.....	.....	3.24	T.
Georgetown	71	25	46.6	1.60	1.0
Gillisonville	76	19	47.4	1.87	0.5
Greenville	65	11	39.6	3.84	
Greenwood	65	15	41.4	2.26	
Holland	67	13	40.2	3.52	T.
Kingstree *a*	72	16	45.6	1.77	.....
Kingstree *b*	.....	.....	.....	1.78	.....
Little Mountain	70	15	44.3	2.72	0.5
Longshore	68	13	42.5	3.03	T.
Pinopolis *[1]	68	23	47.0	1.18	T.
St. Georges	72	19	46.1	1.65	.....
St. Matthews	78	13	46.5	2.16	.....
St. Stephens	.....	.....	.....	1.77	.....
Santuck	69	13	42.6	3.34	T.
Shaws Fork	.....	.....	.....	2.89	2.0
Smiths Mills	.....	.....	.....	1.62	3.0
Societyhill	70	16	43.8	2.06	0.2
Spartanburg	64	11	39.5	2.22	T.
Statesburg	74	17	47.2	2.37	1.0
Summerville	77	18	48.0	1.82	2.0
Temperance	74	13	46.0	2.04	0.5
Trenton	68	19	46.8	3.04	0.3
Trial	74	13	45.5	2.08	.....
Walhalla	64	11	40.3	3.48	T.
Winnsboro	67	15	43.0	3.06	T.
Yemassee	75	20	48.2	1.03	.....
Yorkville	67	15	43.9	3.14	T.
South Dakota.					
Aberdeen	50	—16	16.9	0.14	1.0
Academy	57	— 8	20.6	0.16	3.5
Alexandria	56	—17	19.4	0.25	2.0
Armour	55	—12	20.6	0.30	3.0
Ashcroft	55	—20	20.2	0.62	6.0
Bowdle	57	—22	15.0	0.16	3.0
Brookings	54	—18	16.6	0.43	4.3
Canton	56	—16	19.2	0.75	1.9
Centerville	.....	.....	.....	0.99	2.1
Chamberlain	59	— 7	22.8	0.37	3.7
Clark	.....	.....	.....	0.25	2.5
Desmet	55	—20	16.0	0.40	4.0
Doland	55	—26	14.9	0.18	1.4
Elkpoint	52[l]	—10[l]	24.4[l]	0.91[l]	
Farmingdale	.....	.....	.....	0.44	4.5
Faulkton [e]	56	—18	15.4	0.25	2.5
Flandreau	56	—17	18.6	0.66	4.0
Forestburg	56	—21	17.6	0.10	1.0
Forest City	70	—15	16.6	0.60	6.0
Fort Meade	55	—12	24.2	0.56	4.6
Gannvalley	57	—15	16.3	0.50	5.0
Gary	58	—10	19.3	0.00	0.0
Grand River School	57	—21	17.2	0.29	2.9
Greenwood	58	— 5	24.0	0.17	2.1
Hartman	53	—25	17.8	0.55	1.0
Highmore	55	—16	17.5	0.27	2.7
Hotch City	56	.....	.....	0.20	2.0
Hot Springs	55	—12	20.5	0.70	5.0
Howard	55	—24	18.2	0.39	2.0
Interior	49	—16	20.5	0.30	3.0
Ipswich	54	—21	15.2	0.30	3.0
Kimball	55	— 9	19.6	0.31	4.0
Leola	52	—20	14.2	0.30	3.0
Leslie	59	—12	19.6	T.	T.
Mellette	55	—23	15.8	0.15	1.5
Menno	56	—14	19.2	0.64	1.9
Millbank	55	—11	19.6	0.17	1.5
Mitchell	53	—16	18.1	0.11	1.0
Oelricks	56	—11	22.4	0.70	5.0
Parker	55	—14	20.2	0.74	1.0
Plankinton	59	—15	17.3	0.63	6.0
Redfield	58[d]	—24	21.0	0.11	2.2
Rochford	53	—14	23.9	1.70	13.5
Rosebud	47	—12	15.2	1.30	13.0
St. Lawrence	58[c]	—21	17.8[c]	0.20	2.0
Shiloh	50	—12	13.6	T.	T.
Silver City	.....	.....	.....	1.14	8.5
Sioux Falls	57	—16	18.2	0.76	2.0
Spearfish	54	— 8	26.3	0.91	6.0
Tyndall	55	—13	17.6	0.67	4.0
Watertown	51	—21	15.8	0.25	2.5
Waubay	50	—22[f]	15.5[c]	0.29	2.9
Wentworth	.....	—15	.....	0.57	2.2
Wessington Springs	55	—16	15.3	0.25	2.5
Wolsey	.....	.....	.....	0.15	1.5
Tennessee.					
Andersonville	65	3	35.0	3.24	T.
Ashwood	63	12	39.2	6.21	0.5
Benton	69	8	39.6	3.75	
Bluff City	.....	.....	.....	2.10	2.0
Bolivar	65[d]	16[d]	39.6[d]	3.99	T.
Tennessee—Cont'd.					
Bristol	66	—11	33.8	2.56	3.0
Byrdstown	63	1	36.7	5.48	3.0
Carthage	.....	.....	.....	5.73	1.0
Charleston	.....	.....	.....	4.02	T.
Clarksville	63	10	36.9	4.99	3.0
Clinton	.....	.....	.....	2.51	2.0
Decatur	65	9	38.5	5.06	T.
Dover	63	6	35.6	4.54	1.5
Elizabethton	68	— 5	35.0	2.54	4.0
Elk Valley	.....	— 3	.....	3.20	3.0
Erasmus	66	.....	.....	7.43	2.9
Florence	62	11	38.0	5.02	2.0
Franklin	63	11	37.2	4.97	1.0
Grace *[1]	62	10	38.4	6.04	2.0
Greeneville	67	— 1	36.3	3.32	3.1
Harriman	63	8	36.4	4.74	T.
Hohenwald	62	9	37.2	6.37	0.8
Iron City	62	12	39.4	12.03	0.5
Jackson	61	16	39.6	2.45	
Johnsonville	68	9	37.6	4.99	1.0
Jonesboro *[1]	63	0	34.3	2.99	3.3
Kingston	.....	.....	.....	4.36	.....
Lafayette *[5]	60	6	36.4	4.71	T.
Lewisburg	62	13	38.8	6.64	1.0
Liberty	62	10	35.7	2.25	T.
Lynnville	64	14	39.4	6.93	0.5
McMinnville	64	10	40.4	6.05	T.
Maryville *[5]	67	9	38.3	3.44	1.0
Newport	70	5	36.6	2.01	2.5
Nunnelly	65	10	37.6	7.10	0.5
Oakhill	70	4	38.6	7.39	2.1
Palmetto	62	12	38.8	5.80	1.0
Peryear *[5]	65	10	39.8	4.05	2.0
Pope	67	8	37.8	5.33	1.0
Rogersville	67	— 1	36.2	3.38	2.5
Rugby	63	— 4	33.6	4.94	4.0
Savannah	64	15	40.0	6.14	T.
Sewanee	59	7	36.1	5.74	1.2
Silverlake	59	— 7	32.4	2.43	3.8
Springdale	63	— 4[c]	33.5[c]	3.36	1.0
Springfield	63	7	36.6	4.10	3.0
Tazewell	.....	.....	.....	4.43	4.5
Tellico Plains	67	— 3	40.2	3.96	0.5
Tracy City	60	7	35.6	7.16	1.4
Tullahoma	60	10	37.6	7.10	2.0
Union City	66	12	38.2	4.35	2.0
Waynesboro	72	12	38.7	6.78	T.
Wildersville	68	15	40.0	5.22	0.2
Yukon	60	13	38.6	8.20	T.
Texas.					
Alvin	.....	.....	.....	7.67	
Anna	73	10	44.4	2.27	
Anson	.....	.....	.....	4.10	1.0
Austin *a*	74	25	48.0	5.80	
Austin *b* *[5]	72	26	47.4	.....	
Ballinger	76	23	45.6	3.38	
Beaumont	70	34	53.8	2.56	
Beeville	85	29	53.2	3.20	
Blanco	76[k]	30[k]	50.2[k]	5.40[k]	
Boerne *[1]	75	27	48.6	4.91	
Brazoria	77	35	54.0	5.82	
Brenham	78	29	51.3	4.77	
Brighton	78	33	58.8	2.50	
Brownwood	74	24	47.5	3.60	
Burnet *[1]	72	26	48.0	3.74	
Camp Eagle Pass	79	24	49.8	1.33	
Coleman	76	24	45.9	4.28	
College Station	71	27	46.3	5.87	
Colorado	.....	.....	.....	3.29	6.0
Columbia	77	32	53.2	4.79	
Corsicana	72	23	48.0	3.85	
Cuero	79	30	52.6	3.20	
Dallas	75	25	45.6	4.92	
Danevang	77	30	54.2	5.57	
Dublin	76	23	44.0	3.91	
Duval	73	27	49.7	4.88	
Emory	74	20	47.4	3.32	
Estelle	78	22	46.2	3.05	
Fort Brown	81	.....	.....	1.54	
Fort Clark	73	28	49.0	2.49	
Fort McIntosh	87	28	54.6	0.28	
Fort Ringgold	86	31	56.6	0.60	
Fort Stockton	.....	.....	.....	1.74	1.5
Fredericksburg *[1]	73[d]	24	47.2	4.15	
Fruitland	78	22	46.2	2.97	T.
Gainesville	71[c]	23[c]	45.0[c]	2.27	
Georgetown	.....	.....	.....	5.01	
Grapevine	78	23	46.0	3.16	
Hale Center	77	19	42.4	1.20	3.0
Hallettsville	79	30	53.4	3.67	
Henrietta	67	20	40.7	2.02	
Hewitt	.....	.....	.....	4.05	
Hondo	.....	.....	.....	2.20	
Houston	77	33	52.0	4.17	
Hulen	77[j]	31	54.4[e]	4.64	
Huntsville	77	27	50.5	8.06	
Texas—Cont'd					
Jacksonville	73	23	49.6	3.40	
Jasper	.....	.....	.....	4.51	
Kaufman	70	24	45.6	.....	
Kent	.....	.....	.....	0.71	5.0
Kerrville	80	21	46.6	4.04	
Lampasas	75	22	47.0	3.36	
Lapara	.....	.....	.....	1.50	
Laureles Ranch	.....	.....	.....	2.56	
Llano *[5] [e]	76	29	50.6	2.90	
Longview	74	26	47.2	4.20	
Luling	79	28	51.1	3.50	
Mann	80	24	49.8	4.00	
Marathon	72	.....	.....	1.68	
Mount Blanco	74	18	35.4	1.25	2.0
New Braunfels	75	29	51.2	4.29	
Panter	.....	.....	.....	2.83	
Paris *a*	72	22	44.8	1.88	
Paris *b* *[3]	66	23	45.4	.....	T.
Point Isabel *[1]	80	40	61.8	0.40	
Rhineland	70	22	41.4	2.12	T
Rockisland	76	30	53.2	6.21	
Rockport *[1]	70	36	57.4	.....	
Runge	78	30	53.4	3.06	
Sabine	74	31	53.4	4.90	
San Antonio	78	32	53.9	2.97	
San Marcos	78	26	51.1	4.97	
Sherman	70	25	46.6	2.74	
Sugarland	75	30	51.9	5.10	
Sulphur Springs	70	23	47.0	2.21	
Temple *a*	74	25	48.0	5.34	
Temple *b*	70	23	47.5	3.94	
Turnersville	74	25	49.8	.....	
Tyler	69	24	43.1	3.22	
Valentine	66	.....	.....	0.30	3.0
Victoria	.....	.....	.....	2.69	
Waco	74	28	50.4	4.70	
Waxahachie	73	21	46.0	4.75	
Weatherford	76	22	45.8	3.86	
Wichita Falls	.....	.....	.....	3.26	
Utah.					
Alpine	.....	.....	.....	0.87	6.4
Bluecreek *[1]	45	— 3	22.7	0.85	8.1
Brigham	.....	.....	.....	1.46	.....
Castledale	51	— 6	24.2	0.27	2.7
Cisco	52	—14	18.6	0.75	7.5
Corinne	59	— 4	26.8	0.60	6.0
Deseret	58	—17	21.6	0.80	8.0
Elgin	74	0	29.2	0.07	0.7
Fillmore	65	— 7	26.6	1.03	.....
Fish Springs	61[c]	2[c]	27.7[c]	0.73	.....
Fort Duchesne	50	—19	13.1	0.12	1.2
Frisco	61	4	32.4	T.	T.
Giles	54	— 6	25.1	0.43	2.5
Grover	53	— 6	26.2	0.42	4.0
Heber	50	—20	17.8	1.55	13.0
Huntsville	.....	.....	.....	2.19	20.0
Kanab	.....	.....	.....	0.60	
Kelton *[1]	40	— 5	22.1	0.35	3.5
Levan	54	—12	23.6	1.91	21.0
Loa	58	—15	23.3	0.20	2.0
Logan	55	—10	23.1	0.80	.....
Manti	55	—10	22.4	1.30	13.0
Marysvale *[1]	48	— 6	22.7	1.40	14.0
Millville	.....	.....	.....	1.48	.....
Minersville	57	— 1	28.0	0.63	4.5
Moab	55	3	26.6	1.13	7.0
Mount Pleasant	60	— 7	25.0	2.10	21.0
Ogden *a* *[1]	56	2	26.0	1.50	15.0
Pahreah	62	12	34.8	T.	T.
Park City	47	4	25.8	1.80	18.0
Parowan	59	—10	27.8	1.60	16.0
Pinto	53	— 9	28.4	0.49	3.5
Promontory *[1]	45	— 5	23.8	0.50	5.0
Provo	60	— 1	29.4	1.05	.....
Richfield	58	—14	25.5	1.05	10.5
St. George	64	5	36.4	0.33	
Scipio	59	—26	25.0	1.85	9.0
Snowville	46	— 8	22.0	1.70	17.0
Soldier Summit [g]	48	—20	16.8	2.35	23.5
Terrace	.....	.....	.....	0.10	1.0
Thistle	50	—20	22.8	.....	.....
Tooele	58	5	27.4	1.25	14.1
Tropic	57	4	28.0	0.18	
Vernal	44	—13	16.0	0.50	3.8
Vermont.					
Bennington	61	— 4	30.5	1.88	.....
Brattleboro	64	3	30.8	2.65	6.5
Burlington	59	— 4	30.9	2.65	10.5
Chelsea	54	— 7	24.6	2.12	13.0
Cornwall	61	— 3	28.8	3.24	8.0
Derby	57	—13	24.8	2.93	1.2
Enosburg Falls	68	—16	25.4	2.90	11.0
Hartland	58	0	26.9	2.18	4.1
Jacksonville	50	— 6	22.4	1.68	3.5
Manchester	62	— 2	28.1	2.04	2.9
St. Johnsbury	57	—10	25.0	2.20	10.5

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Vermont—Cont'd.	°	°	°	*Ins.*	*Ins.*
Vernon*[6]	56	— 4	27.4	3.07	4.5
Wells	60	— 4	28.1	2.98	8.5
Woodstock	54	—10	25.8	2.21	8.5
Virginia.					
Alexandria	67	3	37.5	1.62	2.0
Ashland	69	— 2	39.2	2.42	2.0
Barboursville	63	0	35.2	3.01	1.5
Bedford	59	4	32.6	1.82	1.5
Bigstone Gap	68	— 4	35.2	3.85	3.0
Birdsnest*[1]	68	0	39.0	1.75	1.5
Blacksburg	73	— 3	34.2	1.55	5.0
Buckingham	.....	.....	.....	1.70	0.2
Burkes Garden	59	— 4	31.5	4.06	12.0
Callaville	68	— 2	39.4	2.08	1.0
Charlottesville	62	4	37.1	2.30	3.0
Christiansburg	.....	.....	.....	2.08	3.5
Cliftonforge	53	6	30.8	1.23	3.5
Columbia	.....	12	.....	0.60	1.0
Dale Enterprise	69	— 5	33.5	1.00	1.0
Farmville[j]	69	20	42.5	1.02	
Fontella	68	5	39.8	2.09	1.0
Fredericksburg	67	0	37.4	1.82	1.0
Hampton	66	13	42.3	1.23	T.
Hot Springs	60	— 2	29.6	3.20	4.2
Lexington	63	— 8	34.1	1.47	3.5
Manassas	66	— 2	36.5	1.96	3.0
Marion	66	—11	33.8	3.61	7.0
Meadow Dale	55	— 7	28.6	3.21	6.0
Miller School	.....	.....	.....	1.28	1.8
Petersburg	70	3	40.3	1.97	2.0
Quantico	64	— 2	34.1	.....	.....
Radford	.....	.....	.....	1.09	6.0
Richmond (near)	69	2	39.5	1.95	1.5
Rockymount	64	— 3	37.1	1.65	2.0
Salem	67	6	40.5	2.13	1.5
Scottsburg	68	.....	.....	1.66	1.5
Speers Ferry	.....	.....	.....	3.49	0.3
Spottsville	70	0	40.6	2.36	1.5
Stanardsville	62	— 2	36.1	2.10	1.0
Staunton	68	3	37.0	1.14	1.0
Stephens City	65	— 1	34.8	2.02	0.8
Sunbeam	70	4	42.2	2.37	0.1
Warrenton	60	7	36.0	1.89	2.0
Warsaw	67	— 2	36.9	1.90	2.0
Westbrook Farm	67	2	39.4	.....	.....
Westpoint	67	3	38.2	2.57	1.0
Woodstock	66	0	34.2	1.04	1.0
Wytheville	64	— 2	33.2	2.24	3.5
Washington.					
Aberdeen	56	30	42.8	10.13	
Anacortes	.....	.....	.....	5.08	1.0
Ashford	.....	.....	.....	7.96	0.7
Bremerton	57	29	42.8	5.71	
Bridgeport	71	4	37.1	.....	.....
Brinnon	57	30	41.6	9.55	
Cedar Lake	.....	.....	.....	13.78	2.0
Cedonia	45	4	27.8	1.11	12.0
Centerville	60	14	35.8	2.17	4.5
Chehalis	58	18	42.2	5.67	
Cheney	.....	.....	.....	0.90	8.0
Clearwater	52	30	42.4	22.16	
Cle Elum	55	10	32.2	4.12	17.2
Colfax	53	19	35.6	3.36	16.5
Colville	57	20	40.0	1.68	16.5
Conconully	48	1	28.0	1.60	15.9
Connell	.....	.....	.....	0.77	7.0
Coulee City	49	2	29.7	0.82	8.0
Coupeville	56	30	42.2	3.11	T.
Crescent	46	6	30.1	2.44	11.5
Dayton	59	1	37.2	3.19	.....
Ellensburg	56	14	32.7	0.58	1.8
Ellensburg (near)	54	18	32.8	0.70	4.0
Grandmound	57	25	41.6	4.95	
Hooper	59	— 2	34.8	1.56	.....
Kennewick	64	10	37.9	1.02	3.0
Lacenter	57	25	41.4	6.69	
Lakeside	52	12	31.2	1.56	12.0
Lind	58[d]	7[d]	31.5[d]	1.23	10.4
Loomis	55	7	29.9	0.60	6.0
Monte Cristo	49	20	36.1	15.07	42.5
Mottinger Ranch	59	16	36.4	1.21	2.5
Moxee Valley	64	18	33.2	0.59	3.2
New Whatoom	57	25	43.6	5.17	1.8
Northport	44	2	28.1	2.39	20.7
Olga	58	25	42.2	4.85	1.0
Olympia	55	30	43.2	7.33	
Pinehill	57	21	37.2	3.49	14.1
Pomeroy	59	17	37.9	2.09	5.5
Port Townsend	57	33	44.4	2.20	T.
Pullman	50	15	33.1	3.54	19.0
Republic	46	4	27.8	.....	.....
Rosalia	51	9	32.8	1.75	6.7
Shoalwater Bay*[10]	58	35	45.2	.....	
Snohomish	56	29	43.2	3.67	T.
Southbend	58	30	44.2	10.38	
Sunnyside	62	12	34.9	0.66	5.0
Washington—Cont'd.	°	°	°	*Ins.*	*Ins.*
Twin	57	29	41.7	9.68	
Union	56	27	42.4	11.54	T.
Vancouver	60	27	42.2	5.86	
Vashon	58	30	42.4	5.78	
Waterville	54	— 2	28.2	1.36	13.5
Wenatchee (near)	58	5	28.8	1.74	18.3
West Virginia.					
Beckley	65	—14	31.0	2.01	3.5
Beverly	62	— 3	31.9	3.83	11.0
Bluefield	61	— 5	32.8	3.83	8.0
Buckhannon *b*	64	— 8	32.0	.....	.....
Burlington	64	3	32.2	1.55	2.5
Central	67	— 2	33.0	3.11	5.0
Charleston	.....	.....	.....	3.36	5.5
Dayton	65	— 1	32.8	3.75	3.0
Eastbank	68	— 4	37.4	2.53	4.0
Elkhorn	65	— 6	34.8	2.75	6.6
Fairmont	.....	.....	.....	2.87	3.0
Glenville	64	— 5	34.4	3.68	3.3
Grafton	63	0	32.7	3.22	3.5
Green Sulphur	61	—17	32.8	2.91	5.5
Hamlin	71	3	37.7	2.36	.....
Harpers Ferry	.....	.....	.....	2.88	0.5
Hinton *a*	.....	.....	.....	2.49	8.0
Hinton *b*	63	— 9	32.9	.....	.....
Huntington	71	0	33.4	2.52	3.5
Kingwood	61	0	31.8	4.40	3.0
Marlinton	60	—15	28.8	3.09	8.0
Martinsburg	63	3	34.6	1.70	1.0
New Martinsville	69	4	34.5	3.41	3.0
Nuttallburg	77	—10	34.3	3.70	2.5
Oceana	69	—14	33.2	3.56	.....
Oldfields	63	— 3	31.0	1.30	0.5
Parsons	62	0[b]	34.2[d]	1.22	4.0
Philippi *a*	68	1	35.0	3.83	6.8
Point Pleasant	60	1	35.8	2.96	1.0
Powellton	61	— 5	31.1	.....	.....
Romney	63	4	33.2	1.54	T.
Rowlesburg	.....	.....	.....	3.10	8.4
Spencer	70	4	35.2	2.83	2.7
Uppertract	65	— 1	34.3	1.60	6.0
Wellsburg	61	1	30.6	2.61	0.5
Weston *a*	.....	.....	.....	3.85	4.0
Weston *b*	67	— 4	35.0	.....	.....
Wheeling *a*	.....	.....	.....	3.13	1.8
Wheeling *b*	64	5	35.4	3.04	1.8
Wisconsin.					
Amherst	52	—10	19.4	1.40	4.0
Antigo	42[d]	—14[d]	17.4[d]	1.24	8.0
Barron	46	—14	16.4	2.02	7.2
Bayfield	44	— 5	21.1	2.30	21.0
Beloit	49	— 5	25.0	2.03	0.7
Brodhead	50	— 6	24.4	1.56	T.
Butternut	45	—20	15.4	2.70	18.0
Chilton	48	— 3	23.0	0.50	T.
Citypoint	51	—16	17.9	1.16	10.0
Delavan	49	— 7	24.2	1.48	T.
Dodgeville	48	— 9	21.2	1.48	4.0
Easton	47	—11	20.2	1.07	3.5
Eau Claire	46	—10	19.4	2.20	12.5
Florence	44	—13	18.8	1.96	8.0
Fond du Lac	44	— 7	23.5	1.41	3.2
Grand River Locks	.....	.....	.....	1.80	3.0
Hartford	50	— 9	24.1	1.70	3.0
Hartland	47	— 7	23.8	1.72	2.4
Harvey	52	— 6	23.6	1.62	1.6
Heafford	41	—11	17.2	1.80	12.5
Hillsboro	48	—10	20.4	1.80	7.0
Koepenick*[1]	48	—16	18.4	1.60	.....
Lancaster	46	—10	19.0	2.09	6.0
Lincoln[g]	45	0	27.2	0.40	3.0
Madison	45	— 7	22.6	1.37	0.8
Manitowoc	48	— 6	24.8	1.33	0.4
Meadow Valley	49	—14	17.8	1.62	7.5
Medford	53	—19	15.8	2.50	16.0
Menasha	.....	.....	.....	1.18	1.9
Neillsville	47	—14	16.8	2.62	17.0
New Holstein	50	—10	24.5	1.45	1.0
New London	47	— 8	20.6	1.45	1.0
North Crandon	.....	.....	.....	2.50	25.0
Oconto	50	— 8[e]	22.9[e]	0.77	1.1
Osceola	51	—15	17.8	1.54	2.6
Oshkosh	46	— 5	23.8	0.82	4.8
Pepin	48	—10	19.4	1.57	7.0
Pine River	48	—10	20.8	1.63	4.1
Portage	45	— 8	21.2	2.10	4.0
Port Washington	56	— 9	25.1	1.21	0.1
Prairie du Chien	50	—10	23.1	2.36	13.0
Racine	50	— 4	26.6	2.04	.....
Sharon	58	— 8	22.5	1.43	1.0
Shawano	48	— 9	20.4	1.19	2.2
Sheboygan	48	— 4	25.0	1.53	0.5
Spooner	47	—14	20.8	1.39	5.0
Stevens Point	44	—11	18.8	0.88	4.0
Sturgeon Bay Canal*[10]	45	— 6	23.2	.....	.....
Valley Junction	49	—13	19.0	1.37	5.0
Wisconsin—Cont'd.	°	°	°	*Ins.*	*Ins.*
Viroqua	48	—11	19.8	1.90	8.5
Watertown	47	— 8	22.0	1.74	3.8
Waukesha	48	— 7	23.3	1.18	1.0
Waupaca	46	— 8	20.6	1.35	2.6
Wausau	42	—11	15.8	1.65	10.5
Westbend	50	0	25.8	1.90	.....
Westfield	45	— 9	20.6	1.25	3.5
Whitehall	46	—19	18.9	2.80	16.5
Wyoming.					
Alcova	51	—10	20.6	0.32	3.2
Basin	43[1]	—19	11.8	0.27	2.7
Bedford	40	—16	18.9	0.97	10.2
Bigpiney	39	—23	13.4	0.55	5.5
Bitter Creek	50	—29	13.7	1.70	17.0
Buffalo	59	—12	23.2	0.74	7.4
Burlington	50	— 7	17.9	0.28	2.8
Burns	55	—22	13.9	1.00	10.0
Carbon	53	—12	22.5	0.37	.....
Centennial	46	—12	21.6	1.90	19.0
Cody	68	— 8	29.1	T.	T.
Dome Lake	42	— 6	19.1	2.90	29.0
Embar	58	— 5	26.3	1.00	10.0
Evanston	45	—23	16.6	1.75	17.5
Fort Laramie	59	— 3	30.2	0.14	2.1
Fort Washakie	59	— 5	23.2	0.29	2.9
Fort Yellowstone	35	— 2	18.8	1.90	19.0
Fourbear	55	— 7	26.9	0.09	1.2
Hyattville	54	— 8	24.6	1.00	10.0
Iron Mountain	51	— 1	27.0	0.38	4.0
Kimball Ranch	55	— 8	29.4[f]	0.10	1.0
Laramie	48	—21	18.2	0.61	9.5
Lovell	54	—16	18.0	0.19	3.4
Lusk	54	—10	24.4	0.26	.....
Rawlins	44	—19	21.2	0.93	9.3
Rocksprings[j]	52	—23	18.1	.....	.....
Sheridan	58	—12	23.6	0.70	7.0
Sherman	.....	.....	.....	1.50	15.0
Thayne	39	—19	20.0	0.63	6.3
Thermopolis	49	— 6	21.6	0.48	4.8
Wamsutter	50	—22	11.6	0.30	3.0
Puerto Rico.					
Adjuntas	84	49	66.8	3.44	
Aguadilla	83	65	75.8	2.64	
Arecibo	85	59	73.8	.....	
Bayamon	91	56	75.4	3.10	
Caguas	89	55	72.5	1.50	
Canovanas	.....	.....	.....	3.23	
Cayey	84	51	67.6	5.22	
Comario	93	46	68.2	.....	
Corozal	91	52	72.3	4.53	
Fajardo[1]	86	60	74.9	0.79	
Hacienda Coloso	93	57	74.4	1.45	
Hacienda Monserrate[3]	.....	.....	.....	1.25	
Humacao	88	66	76.8	2.96	
Isabela	89	62	75.0	3.18	
La Isolina	86	58	71.4	6.35	
Lajas	92	57	76.8	0.80	
Luquillo	86	63	74.2	4.86	
Manati	94	58	74.4	5.93	
Mannabo	.....	.....	.....	1.44	
Mayaguez	91	62	77.6	1.04	
Morovis	85	56	72.4	2.99	
Port America	89	57	75.7	0.86	
Puerta de Tierra	88	66	77.0	2.31	
San German	94	58	73.6	1.96	
San Lorenzo	91	53	73.0	1.77	
Vieques	86	62	75.1	0.30	
Yanco	88	60	78.0	0.05	
Mexico.					
Ciudad P. Diaz	74	32	53.3	1.67	
Coatzacoalcos[2]	.....	.....	72.6	.....	
Leon de Aldamas	76	32	56.2	0.04	
Puebla	71	41	57.9	0.00	
Tampico[2]	.....	.....	64.2	.....	
Vera Cruz[2]	.....	.....	71.6	.....	
New Brunswick.					
St. John	51	2	28.6	5.55	22.5

Late reports for November, 1899.

Alabama.					
Livingston	77	28	56.6	4.00	
Alaska.					
Orca	48	28	36.4	13.02	
Arizona.					
Ingleside	85	34	59.4	0.47	
California.					
Chino	.....	.....	.....	1.25	
Glendora	.....	.....	.....	1.74	
Hill Ranch	80	33	55.1	0.82	
Kernville	.....	.....	.....	0.89	
Lagrange*[b]	72	38	55.4	4.25	
Pilot Creek	.....	.....	.....	11.00	1.0

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
	°	°	°	*Ins.*	*Ins.*
Colorado.					
Springfield	.....	.....	.....	2.75	
Massachusetts.					
Leicester	58	18	36.8	2.86	T.
Mississippi.					
Holly Springs	74	31	54.2	3.38	
Windham	82	24	57.2	2.27	
Nebraska.					
Central City	.....	.....	.....	0.98	
Redcloud *a*	.....	.....	.....	0.97	
New Mexico					
Clayton	72	9	40.5	2.00	
Shattucks Ranch	80	19	47.2	3.15	1.0
Winsors Ranch	63	8	35.0	1.20	
South Dakota.					
Rochford	70	2	36.6	0.65	6.5
Rosebud [c]	67	7	34.6	0.20	2.0
Texas.					
College Station	76	31	56.3	1.55	

EXPLANATION OF SIGNS.

* Extremes of temperature from observed readings of dry thermometer.

A numeral following the name of a station indicates the hours of observation from which the mean temperature was obtained, thus:

[1] Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. ÷ 4.
[2] Mean of 8 a. m. + 8 p. m. ÷ 2.
[3] Mean of 7 a. m. + 7 p. m. ÷ 2.
[4] Mean of 6 a. m. + 6 p. m. ÷ 2.
[5] Mean of 7 a. m. + 2 p. m. ÷ 2.
[6] Mean of readings at various hours reduced to true daily mean by special tables.
[7] Mean from hourly readings of thermograph.
[9] Mean of sunrise and noon.
[10] Mean of sunrise, noon, sunset, and midnight.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

An italic letter following the name of a station, as "Livingston *a*," "Livingston *b*," indicates that two or more observers, as the case may be, are reporting from the same station. A small roman letter following the name of a station, or in figure columns, indicates the number of days missing from the record; for instance, "[n]" denotes 14 days missing.

No note is made of breaks in the continuity of temperature records when the same do not exceed two days. All known breaks, of whatever duration, in the precipitation record receive appropriate notice.

CORRECTION.

The following changes have been made in the names of stations:

Arizona, Dragoon, changed to Russellville.

TABLE III.—*Mean temperature for each hour of seventy-fifth meridian time, December*, 1899.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midn't.	Mean.
Bismarck, N. Dak....	11.4	11.4	11.5	11.6	11.5	11.3	11.4	10.5	10.0	9.7	11.8	14.6	17.2	19.3	20.6	21.5	21.7	19.7	17.3	15.6	14.2	13.4	12.0	11.3	14.2
Boston, Mass	34.4	33.7	33.5	33.3	32.6	32.5	32.6	33.6	34.8	36.0	38.0	39.8	40.2	40.9	40.7	39.9	38.7	37.5	36.2	35.7	35.1	34.8	34.4	33.9	35.9
Buffalo, N. Y.....	31.1	30.6	30.4	30.3	30.0	29.8	29.9	30.1	30.1	30.4	31.4	31.9	32.4	32.6	32.6	32.6	32.3	31.7	31.2	30.9	30.7	30.5	30.2	30.2	31.0
Cedar City, Utah....	28.6	28.6	27.8	27.1	27.0	26.7	26.3	26.5	26.0	25.5	28.7	31.9	34.4	36.4	38.4	39.4	39.5	39.5	35.8	33.8	31.7	30.5	30.1	29.2	31.2
Chicago, Ill.....	26.5	25.9	25.3	24.9	24.4	24.1	23.7	24.0	24.1	24.4	25.5	27.1	28.5	29.6	30.7	31.4	31.7	31.4	30.2	28.9	28.0	27.0	26.3	25.5	27.0
Cincinnati, Ohio....	31.8	31.4	31.2	30.8	30.5	30.4	29.7	29.7	29.8	30.5	32.0	34.0	35.5	36.7	37.6	37.9	37.6	37.3	36.1	35.0	34.1	33.2	32.1	31.1	33.2
Cleveland, Ohio	30.5	29.9	29.6	29.2	29.2	28.5	28.0	27.9	27.9	28.6	29.6	30.6	31.7	32.8	33.3	33.4	33.2	32.8	32.3	31.8	31.2	30.7	30.2	30.0	30.5
Detroit, Mich.....	28.7	28.5	28.2	27.9	27.5	26.9	26.6	26.7	26.0	26.7	27.6	28.9	29.9	30.7	31.1	31.3	31.0	30.0	29.5	29.2	28.6	28.3	27.9	27.7	28.6
Eastport, Me.....	29.6	29.5	29.5	29.3	29.2	29.4	29.4	29.8	30.5	30.9	31.6	32.5	32.9	32.9	32.4	31.9	31.1	30.5	30.1	29.6	28.9	28.6	28.5	28.5	30.3
Galveston, Tex.....	55.6	55.5	55.2	54.9	54.5	54.2	53.8	53.2	52.5	53.2	54.6	55.4	56.2	57.0	57.5	58.0	58.1	57.8	57.0	56.5	56.3	56.0	55.7	55.4	55.6
Havre, Mont.....	20.8	20.7	20.1	19.8	19.4	19.4	19.6	20.1	19.5	19.0	19.3	20.5	21.6	23.6	24.5	25.1	25.4	24.5	23.1	21.4	20.5	19.8	19.7	19.6	21.1
Independence, Cal..	41.7	40.9	40.4	39.6	38.7	37.4	37.0	37.1	35.8	35.4	36.9	39.8	42.9	45.7	48.7	50.9	52.3	52.4	50.6	48.1	46.2	44.7	43.5	42.2	42.9
Kalispell, Mont	25.6	25.1	24.8	24.6	24.3	24.7	24.8	24.5	24.0	24.1	24.2	25.2	26.1	27.4	28.8	29.9	30.1	29.9	28.6	28.2	27.8	27.1	26.5	26.0	26.3
Kansas City, Mo.....	29.9	29.3	28.6	28.1	27.3	26.6	26.5	26.5	26.2	26.9	28.3	30.1	32.1	33.5	34.2	34.5	34.6	33.9	32.5	32.0	30.8	30.6	30.1	29.5	30.1
Key West, Fla.....	70.0	69.6	69.0	68.9	68.9	68.8	68.6	69.4	70.0	71.1	72.2	72.2	73.0	73.0	73.0	72.7	71.9	71.1	70.7	70.7	70.5	70.3	70.2	70.1	70.7
Marquette, Mich	23.2	22.9	22.4	22.2	21.6	21.2	21.0	20.7	20.9	21.5	22.6	23.6	24.5	24.8	25.2	25.2	24.5	23.8	23.2	22.8	22.9	22.7	22.5	22.3	22.8
Memphis, Tenn.....	40.8	40.0	39.1	38.6	38.0	37.5	36.9	36.6	37.0	38.7	40.6	42.4	43.7	44.9	45.8	46.2	46.0	44.8	43.8	43.2	42.0	41.6	41.1	40.7	41.3
Mt. Tamalpais, Cal..	48.3	48.1	47.9	48.0	47.6	47.4	46.7	46.8	46.0	46.0	45.3	45.7	46.5	47.1	48.0	48.3	48.8	49.0	48.8	48.5	48.3	48.6	48.9	48.0	47.6
New Orleans, La.....	52.2	51.7	51.4	50.7	50.3	49.8	49.4	49.1	49.0	50.6	53.2	55.4	57.3	58.5	59.0	59.2	59.3	57.9	56.2	55.0	53.8	53.2	52.5	52.0	53.6
New York, N. Y.....	35.6	35.4	34.9	34.5	34.1	33.6	33.6	33.8	34.0	35.1	36.8	38.3	39.1	40.5	40.8	40.5	39.5	38.5	37.6	37.3	36.5	36.0	35.1	34.6	36.5
Philadelphia, Pa.....	36.0	35.7	35.1	34.6	34.2	33.8	33.8	34.3	35.3	37.0	38.8	40.5	41.3	42.4	42.3	41.8	40.6	39.7	38.7	38.2	37.1	36.5	35.9	35.5	37.5
Pittsburg, Pa.....	32.3	31.8	31.3	31.1	30.7	30.9	31.3	31.4	31.3	32.5	33.5	34.8	36.2	37.2	37.8	37.6	37.0	36.0	34.7	34.1	33.3	33.2	32.5	32.0	33.5
Portland, Oreg.....	42.8	42.9	42.7	42.6	42.5	42.1	41.0	41.9	41.3	40.8	40.6	41.0	42.1	43.2	44.5	45.5	46.0	46.4	46.1	45.1	44.4	43.9	43.4	42.8	43.2
St. Louis, Mo.....	31.9	31.4	30.8	30.1	29.6	29.5	29.1	29.2	29.1	30.0	31.8	33.8	35.1	36.5	37.5	37.8	37.8	36.8	35.9	35.3	34.3	33.2	32.2	31.5	32.9
St. Paul, Minn.....	20.5	20.0	19.5	19.2	18.8	18.1	17.7	17.5	17.2	17.3	18.4	20.3	21.9	23.1	24.5	25.3	25.6	25.0	23.8	22.9	22.2	21.4	20.9	20.4	20.9
Salt Lake City, Utah.	27.9	27.2	26.4	25.9	25.0	25.1	24.4	25.3	24.0	23.9	24.4	27.1	29.0	31.5	33.6	34.9	34.6	34.2	32.3	30.8	30.0	29.3	28.5	27.4	28.4
San Diego, Cal.....	55.7	54.9	54.4	54.1	53.8	53.3	52.7	52.4	52.0	52.3	53.5	57.6	60.5	62.4	64.5	65.3	64.6	64.0	63.2	61.1	59.6	58.4	57.4	56.6	57.7
San Francisco, Cal...	48.8	48.4	47.8	47.4	46.7	46.4	46.0	46.9	45.9	45.7	45.7	46.6	48.1	49.4	50.6	52.1	53.2	53.7	53.4	52.1	51.3	50.8	50.3	49.5	49.0
Santa Fe, N. Mex ...	28.8	28.4	27.9	27.3	26.5	26.2	26.1	25.8	26.1	27.5	30.3	33.4	35.6	37.0	38.8	40.0	40.8	39.7	36.9	34.3	32.6	31.9	30.5	29.5	31.8
Savannah, Ga.....	48.4	47.6	46.7	46.1	45.6	45.2	44.8	45.1	46.3	49.6	52.6	55.1	56.4	57.4	58.1	57.7	56.3	53.7	52.3	51.5	50.5	49.9	48.8	48.3	50.6
Washington, D. C....	33.1	32.6	31.6	31.4	31.0	30.9	30.3	31.4	32.8	35.7	39.3	41.4	43.0	44.4	44.7	44.0	42.4	40.7	38.6	37.1	35.8	35.2	34.2	33.4	36.5
West Indies.																									
Basseterre, St. Kitts.	72.8	72.8	72.7	72.7	73.1	73.8	77.1	79.0	80.3	80.7	81.5	82.0	81.6	80.8	80.0	78.8	76.5	75.4	74.8	74.7	74.5	74.2	73.7	73.2	76.5
Bridgetown, Bar.....	74.3	73.8	73.7	73.4	73.5	74.8	79.2	81.5	83.0	83.7	83.8	83.7	83.5	83.0	82.3	80.8	78.8	77.5	76.7	76.0	75.4	75.1	74.7	74.6	78.2
Cienfuegos, Cuba ...	64.8	63.9	63.4	62.9	62.7	62.6	62.7	65.7	69.8	73.5	75.6	77.2	78.3	79.1	78.7	78.0	76.3	73.4	70.7	69.5	67.9	67.2	66.0	65.1	69.8
Havana, Cuba.....	68.7	68.1	67.5	67.3	67.2	66.9	67.2	68.0	71.5	73.6	75.2	76.0	76.3	75.9	75.8	75.4	74.2	73.2	72.3	71.6	70.8	70.3	69.6	69.1	71.3
Kingston, Jamaica ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port of Spain, Trin..	73.3	72.9	72.6	72.5	72.5	73.0	77.2	80.5	82.5	84.0	84.9	84.5	83.9	83.6	82.7	81.9	80.5	79.0	78.1	77.5	76.2	75.8	75.1	74.4	78.3
P. Principe, Cuba ...	64.0	63.4	63.1	62.9	62.8	62.6	63.0	65.7	69.2	72.5	74.4	75.5	76.6	76.5	76.1	75.1	73.7	70.8	68.8	67.5	66.3	65.7	65.2	64.6	68.6
Roseau, Dominica ..	72.9	73.0	73.0	72.9	73.1	73.6	76.2	79.8	81.7	82.8	82.8	83.5	83.4	83.2	82.8	81.0	78.5	76.7	75.8	75.4	74.9	74.3	74.0	73.7	77.5
San Juan, P. R.....	73.3	73.1	72.8	72.6	72.4	73.1	74.0	75.5	78.1	79.6	80.1	80.1	80.5	80.0	79.3	78.1	77.2	76.2	76.3	75.9	75.1	74.5	74.0	73.2	76.0
Santiago de Cuba...	68.6	68.2	67.7	67.5	67.3	67.3	68.1	70.0	73.8	76.5	79.2	80.5	81.0	81.5	80.8	79.6	77.4	75.3	73.8	72.6	71.5	70.9	70.0	69.3	73.3
Santo Domingo, S. D.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Willemstad, Curaçao	77.5	77.0	76.9	76.8	76.7	76.8	78.5	80.1	81.2	81.6	83.4	82.1	82.5	81.9	81.3	80.9	79.7	79.0	78.9	78.9	78.7	78.6	78.1	77.9	79.3

TABLE IV.—*Mean pressure for each hour of seventy-fifth meridian time, December*, 1899.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midn't.	Mean.
Bismarck, N. Dak....	28.326	.321	.317	.318	.315	.314	.315	.320	.326	.331	.338	.340	.330	.323	.313	.311	.314	.316	.319	.321	.325	.328	.329	.330	.322
Boston, Mass.....	29.911	.915	.911	.905	.902	907.	.914	.924	.932	.934	.914	.893	.880	.875	.880	.886	.898	.909	.919	.921	.924	.923	.919	.913	.909
Buffalo, N. Y.....	29.138	.138	.146	.141	.137	.137	.143	.146	.155	.159	.154	.139	.123	.118	.120	.126	.130	.141	.147	.148	.149	.147	.145	.141	.140
Cedar City, Utah....	24.342	.344	.335	.333	.333	.333	.337	.326	.343	.339	.349	.367	.369	.355	.334	.317	.309	.311	.312	.315	.319	.324	.326	.332	.333
Chicago, Ill.	29.143	.140	.142	.146	.142	.140	.143	.150	.152	.160	.170	.164	.151	.139	.128	.130	.135	.139	.144	.148	.147	.146	.149	.150	.146
Cincinnati, Ohio	29.421	.419	.423	.424	.420	.424	.436	.442	.450	.460	.458	.442	.425	.412	.412	.415	.419	.421	.425	.429	.429	.431	.435	.434	.429
Cleveland, Ohio	29.185	.185	.184	.182	.181	.185	.192	.193	.201	.207	.201	.185	.173	.169	.174	.182	.185	.191	.197	.201	.197	.194	.191	.189	.188
Detroit, Mich.....	29.201	.195	.203	.201	.194	.197	.199	.202	.208	.214	.217	.203	.191	.184	.185	.192	.199	.205	.211	.216	.213	.211	.210	.210	.203
Dodge, Kans	27.487	.483	.483	.488	.484	.479	.475	.469	.471	.480	.484	.480	.462	.437	.425	.423	.427	.433	.442	.458	.466	.471	.478	.485	.465
Eastport, Me	29.948	.950	.951	.947	.945	.947	.948	.954	.959	.959	.944	.949	.918	.913	.914	.917	.923	.932	.942	.947	.951	.954	.950	.949	.941
Galveston, Tex.....	30.049	.044	.041	.041	.041	.040	.044	.046	.064	.078	.090	.088	.065	.038	.022	.014	.011	.012	.021	.031	.042	.048	.055	.058	.045
Havre, Mont.....	27.367	.366	.369	.370	.376	.376	.375	.378	.379	.378	.390	.402	.402	.389	.375	.368	.367	.370	.373	.374	.375	.380	.380	.385	.378
Independence, Cal..	26.095	.096	.093	.091	.091	.094	.089	.085	.094	.101	.113	.127	.138	.126	.096	.077	.066	.060	.059	.054	.061	.066	.075	.080	.089
Kalispell, Mont	26.971	.974	.974	.972	.974	.978	.971	.966	.966	.967	.972	.980	.984	.973	.959	.949	.947	.955	.960	.966	.966	.971	.973	.975	.968
Kansas City, Mo.....	29.122	.116	.119	.124	.118	.115	.114	.116	.124	.132	.141	.136	.116	.093	.082	.078	.085	.090	.096	.103	.111	.115	.120	.124	.112
Key West, Fla.....	30.056	.053	.047	.047	.047	.051	.059	.065	.090	.099	.092	.071	.048	.033	.028	.028	.033	.037	.044	.049	.058	.063	.062	.059	.055
Marquette, Mich ...	29.103	.103	.107	.103	.097	.094	.089	.091	.090	.096	.102	.095	.084	.080	.082	.090	.098	.103	.107	.108	.107	.105	.107	.107	.098
Memphis, Tenn.....	29.708	.709	.715	.715	.717	.721	.735	.746	.763	.776	.784	.773	.744	.720	.708	.708	.710	.712	.715	.718	.719	.723	.723	.724	.729
Mt. Tamalpais, Cal .	27.647	.646	.643	.639	.638	.636	.629	.621	.626	.634	.645	.655	.666	.662	.645	.629	.618	.617	.619	.620	.617	.618	.626	.631	.635
New Orleans, La.....	30.073	.067	.068	.069	.070	.069	.076	.088	.103	.113	.116	.106	.079	.056	.042	.038	.037	.041	.049	.060	.073	.079	.084	.083	.073
New York, N. Y.....	29.734	.735	.734	.729	.727	.732	.736	.741	.751	.751	.735	.716	.698	.694	.695	.703	.716	.729	.740	.750	.752	.751	.745	.738	.730
Philadelphia, Pa.....	29.977	.977	.977	.972	.971	.977	.985	.991	.999	.001	.987	.966	.950	.942	.945	.953	.964	.971	.982	.987	.992	.989	.989	.981	.976
Pittsburg, Pa.....	29.142	.142	.148	.142	.138	.140	.145	.153	.161	.170	.167	.148	.131	.118	.121	.126	.132	.141	.144	.149	.150	.150	.149	.147	.144
Portland, Oreg..... .	29.932	.933	.932	.930	.928	.933	.932	.929	.933	.939	.943	.956	.967	.968	.955	.941	.929	.927	.928	.928	.925	.923	.921	.920	.935
St. Louis, Mo.....	29.508	.506	.512	.516	.515	.515	.520	.530	.541	.549	.558	.545	.536	.505	.493	.492	.495	.495	.496	.502	.508	.511	.515	.516	.515
St. Paul, Minn.....	29.132	.131	.133	.137	.132	.128	.126	.126	.130	.135	.143	.145	.131	.115	.104	.103	.110	.116	.119	.125	.125	.128	.128	.129	.126
Salt Lake City, Utah.	25.770	.772	.768	.766	.772	.772	.771	.773	.775	.779	.789	.802	.807	.788	.766	.757	.753	.753	.758	.758	.759	.758	.759	.761	.770
San Diego, Cal.....	29.967	.968	.964	.961	.958	.957	.952	.950	.956	.971	.982	.995	.003	.991	.961	.945	.932	.929	.931	.933	.943	.952	.958	.963	.959
San Francisco, Cal...	29.999	.001	.998	.994	.993	.993	.988	.983	.989	.994	.004	.015	.028	.023	.002	.985	.971	.971	.969	.967	.974	.976	.978	.985	.991
Santa Fe, N. Mex ...	23.271	.267	.261	.261	.261	.255	.251	.253	.259	.267	.279	.286	.276	.257	.234	.225	.225	.230	.237	.244	.250	.254	.261	.264	.255
Savannah, Ga.....	30 074	.075	.076	.073	.075	.080	.092	.103	.114	.122	.116	.095	.070	.055	.047	.048	.049	.052	.059	.062	.072	.075	.075	.072	.076
Washington, D. C....	29.991	.991	.992	.990	.993	.998	.006	.015	.024	.032	.020	.001	.970	.960	.964	.965	.974	.984	.993	.997	.998	.996	.000	.993	.994
West Indies.																									
Basseterre, St. Kitts.	29.884	.874	.867	.869	.877	.893	.919	.933	.938	.928	.910	.885	.870	.861	.860	.865	.874	.884	.899	.911	.915	.911	.904	.896	.893
Bridgetown, Bar....	29.838	.830	.833	.838	.851	.863	.884	.896	.901	.887	.865	.843	.826	.818	.817	.824	.833	.844	.857	.866	.869	.868	.862	.852	.853
Cienfuegos, Cuba...	29.957	.951	.943	.940	.941	.951	.967	.980	.998	.000	.988	.968	.937	.918	.909	.909	.916	.928	.944	.960	.973	.979	.976	.969	954
Havana, Cuba.....	29.986	.981	.974	.972	.972	.978	.990	.002	.021	.029	.023	.008	.981	.963	.953	.952	.954	.960	.970	.979	.995	.000	.001	.994	.985
Kingston, Jamaica..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port of Spain, Trin..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
P. Principe, Cuba ...	29.628	.617	.609	.608	.611	.621	.636	.655	.667	.670	.659	.639	.613	.597	.592	.591	.601	.613	.626	.638	.649	.654	.649	.639	.628
Roseau, Dominica ..	29.861	.851	.849	.851	.861	.873	.889	.909	.912	.905	.885	.865	.850	.840	.840	.845	.851	.860	.872	.882	.886	.885	.881	.874	.870
San Juan, P. R.....	29.857	.845	.840	.843	.848	.861	.878	.897	.905	.901	.886	.863	.845	.833	.828	.835	.842	.852	.864	.876	.882	.880	.875	.866	.863
Santiago de Cuba...	29.869	.859	.851	.853	.857	.867	.884	.893	.912	.910	.892	.865	.835	.819	.816	.818	.827	.837	.851	.868	.885	.888	.887	.878	.863
Santo Domingo, S. D.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Willemstad, Curaçao	29.779	.768	.762	.770	.782	.797	.822	.837	.839	.832	.809	.785	.752	.741	.732	.734	.742	.754	.778	.794	.806	.808	.804	.796	.784

TABLE V.—*Average wind movement for each hour of seventy-fifth meridian time, December*, 1899.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Abilene, Tex	8.7	8.6	9.0	9.5	9.1	8.7	8.3	8.4	8.1	8.2	9.7	10.2	10.3	10.9	11.1	11.3	11.4	11.0	9.0	7.3	6.9	7.6	8.7	8.8	9.2
Albany, N. Y	6.8	7.2	5.9	5.6	5.8	6.6	6.7	6.9	8.1	8.8	9.3	9.3	9.8	9.4	9.7	9.2	9.0	8.6	7.8	8.0	8.5	8.1	8.1	7.5	7.9
Alpena, Mich	11.1	10.7	11.6	12.3	11.6	11.0	11.7	11.7	11.6	11.9	12.5	14.0	13.9	13.9	12.8	12.5	12.2	10.7	11.2	11.3	11.7	11.5	11.5	11.1	11.9
Amarillo, Tex	6.3	5.9	5.8	5.3	5.5	5.4	5.5	5.1	4.8	4.9	5.9	6.8	8.2	8.5	8.8	8.6	8.2	7.5	6.4	5.8	5.7	6.0	6.1	6.4	6.4
Atlanta, Ga	13.6	13.3	13.4	12.9	12.6	12.4	12.6	12.5	12.2	13.1	12.7	12.3	12.5	11.9	12.1	11.5	11.2	11.1	11.8	11.6	12.2	12.7	13.7	13.6	12.5
Atlantic City, N. J	10.8	10.6	10.4	10.5	10.4	10.4	10.9	11.4	12.6	14.1	14.7	13.5	13.5	12.9	12.6	12.1	11.1	10.6	10.3	10.3	10.4	10.8	11.4	11.4	11.6
Augusta, Ga	5.5	6.3	6.3	6.2	6.2	6.0	5.7	5.7	6.5	7.3	7.6	7.9	9.1	9.6	9.6	9.3	8.1	7.2	5.8	5.8	5.7	6.2	6.3	6.1	6.9
Baker City, Oreg	5.4	5.3	5.8	5.8	5.6	6.4	6.4	6.2	6.4	6.5	6.6	6.1	6.2	5.6	4.8	4.6	4.6	4.2	3.4	3.7	4.5	4.9	5.6	4.9	5.4
Baltimore, Md	4.3	4.5	4.6	4.7	5.0	4.9	4.9	4.6	4.9	5.9	7.2	7.2	7.2	7.8	7.1	7.0	6.0	4.5	5.2	4.9	4.5	4.5	4.8	4.2	5.4
Bismarck, N. Dak	5.4	5.1	5.7	6.1	6.2	6.7	7.3	6.9	6.9	7.1	7.3	7.7	9.8	10.5	10.6	10.8	10.1	8.5	7.6	7.3	7.3	6.8	6.8	6.2	7.5
Block Island, R. I	18.3	18.1	17.9	17.8	17.9	17.9	16.8	17.2	17.2	17.4	18.4	18.7	19.7	19.2	20.2	19.6	18.6	18.5	18.0	19.5	18.4	19.2	18.9	18.3	18.4
Boise, Idaho	4.2	4.2	4.0	4.0	4.1	3.9	3.8	3.5	3.7	3.6	3.9	4.3	5.3	5.4	5.0	4.8	4.9	4.6	4.0	4.0	3.7	3.8	3.7	3.8	4.2
Boston, Mass	10.3	10.2	10.2	10.2	10.3	9.9	10.0	10.2	10.6	11.6	12.5	13.8	13.6	14.3	14.0	12.9	12.5	11.7	11.3	10.8	10.6	9.8	10.1	10.3	11.3
Buffalo, N. Y	17.5	19.0	18.4	17.1	17.1	16.7	16.3	17.3	18.6	19.1	19.1	19.4	20.5	21.8	22.6	22.7	22.5	21.0	21.3	21.4	20.7	20.0	19.6	18.4	19.5
Cairo, Ill	9.6	9.4	9.4	9.6	9.3	8.9	9.3	9.2	9.0	9.7	10.1	10.3	10.9	10.8	10.6	11.1	10.9	9.8	8.5	8.7	8.6	9.1	9.3	9.2	9.6
Cape Henry, Va	13.5	14.4	13.4	13.7	14.0	14.3	14.4	13.9	14.4	14.2	13.4	14.0	13.9	13.9	13.1	12.4	11.4	10.2	10.8	11.7	13.0	13.3	13.5	13.7	13.3
Carson City, Nev	5.1	5.8	5.5	5.7	5.2	6.2	5.0	4.9	5.5	6.1	5.6	5.7	6.2	6.3	7.3	7.5	8.0	8.2	8.5	7.5	6.3	5.6	5.5	5.4	6.2
Cedar City, Utah	4.5	4.7	5.1	4.6	4.7	4.5	5.0	4.3	4.8	4.7	3.7	2.7	3.5	4.5	5.2	5.4	5.7	5.3	4.8	4.5	5.0	5.0	4.6	4.8	4.7
Charleston, S. C	10.5	10.3	10.9	10.6	11.2	11.3	10.2	10.1	10.3	11.4	12.1	11.8	12.1	11.4	11.3	11.0	11.0	9.5	9.8	9.8	10.2	9.6	10.3	10.6	10.7
Charlotte, N. C	7.2	6.9	7.1	6.7	6.4	6.7	6.7	7.0	6.8	7.3	7.5	8.1	8.5	9.1	9.4	8.9	8.4	6.3	6.3	6.6	6.7	6.9	7.0	7.0	7.3
Chattanooga, Tenn	7.7	7.4	7.5	7.6	7.8	7.1	7.5	7.0	6.7	7.1	7.4	7.7	8.3	9.1	10.3	10.1	10.1	9.0	9.0	8.7	8.1	8.2	8.0	7.4	8.1
Cheyenne, Wyo	10.1	10.7	11.3	11.9	12.1	13.0	13.3	13.7	13.3	12.3	11.8	13.1	14.9	15.7	15.6	15.6	14.5	12.6	10.9	10.2	10.2	9.6	9.1	9.1	12.3
Chicago, Ill	17.6	18.2	18.3	18.6	18.8	18.8	18.8	18.9	18.9	19.2	19 0	18.2	18.8	18.9	19.5	19.7	18.2	16.8	17.6	18.1	17.8	18.6	18.4	18.1	18.5
Cincinnati, Ohio	8.3	8.3	8.2	8.1	7.8	8.5	9.0	8.7	8.9	10.1	11.3	11.5	11.8	11.7	11.7	11.1	10.4	9.0	8.4	8.4	8.4	8.9	8.7	8.5	9.4
Cleveland, Ohio	17.3	17.4	17.3	17.2	17.9	17.6	18.8	19.4	19.6	19.9	20.5	20.8	20.7	20.7	19.3	19.4	18.8	17.7	18.2	18.6	18.3	18.9	18.0	17.2	18.7
Columbia, Mo	8.9	8.6	8.6	8.4	9.0	8.1	8.1	7.9	7.4	7.7	8.3	8.5	8.8	9.0	8.6	8.7	9.2	8.5	8.4	8.3	8.8	8.8	9.6	9.6	8.6
Columbus, Ohio	7.7	8.4	8.1	7.9	8.3	8.3	8.6	9.1	9.5	10.9	11.2	11.0	11.6	11.6	11.2	10.2	9.6	8.9	8.4	7.8	7.7	7.6	7.7	7.6	9.1
Concordia, Kans	6.1	5.4	5.6	5.9	6.0	5.7	6.0	6.1	6.5	7.1	7.8	8.0	8.2	8.3	8.1	8.2	7.8	6.2	6.3	6.4	6.9	7.4	7.2	6.9	6.8
Corpus Christi, Tex	10.1	10.2	9.8	9.3	9.0	8.6	9.1	9.2	9.5	10.7	10.9	11.4	11.7	12.2	12.8	12.7	12.7	11.2	10.5	9.6	9.8	10.4	10.0	9.8	10.5
Davenport, Iowa	7.7	7.9	8.2	8.0	7.7	7.6	8.0	8.1	8.0	8.7	9.3	9.2	10.2	10.1	10.3	10.1	10.0	8.9	8.4	8.1	7.7	7.6	7.8	7.4	8.5
Denver, Colo	8.3	7.9	8.2	7.9	8.8	9.7	9.4	9.7	9.5	10.2	11.3	10.0	9.8	10.0	9.0	9.2	9.7	8.6	8.6	8.9	8.4	8.7	9.1	8.3	9.1
Des Moines, Iowa	7.5	7.6	7.1	6.7	6.8	6.7	6.9	6.7	6.9	7.5	8.6	8.6	8.8	9.5	9.5	9.2	8.9	8.1	7.4	7.7	7.9	8.0	8.0	7.8	7.9
Detroit, Mich	11.0	11.0	10.3	10.4	11.5	11.9	12.0	12.7	13.5	14.2	16.0	15.9	16.5	15.7	15.1	14.1	13.5	12.1	11.3	11.3	11.1	10.8	10.4	10.6	12.6
Dodge, Kans	8.0	7.7	7.3	7.2	7.3	7.6	7.8	7.6	7.9	8.2	9.9	10.4	10.5	11.6	11.7	11.2	10.6	9.4	8.1	7.8	8.1	8.3	8.6	8.2	8.8
Dubuque, Iowa	8.9	8.6	9.1	8.0	8.1	8.1	7.6	7.4	7.3	7.7	9.3	9.6	9.6	10.0	9.7	10.0	9.6	8.9	8.2	8.5	8.6	8.2	8.8	8.7	8.7
Duluth, Minn	11.1	9.8	9.6	9.6	8.8	8.6	9.5	9.5	9.4	10.1	11.1	11.4	11.7	10.8	11.5	11.4	10.9	10.1	10.6	11.4	11.6	12.6	11.0	11.1	10.6
Eastport, Me	11.9	11.8	12.0	12.4	12.6	12.6	13.3	14.0	14.3	14.3	14.0	14.3	14.3	14.1	14.2	13.4	12.9	12.9	13.1	12.6	13.1	12.2	11.9	11.5	13.1
Elkins, W. Va	5.4	5.3	5.4	5.3	5.0	4.8	4.7	5.1	5.4	5.9	7.4	8.0	8.1	8.4	7.5	7.9	6.8	5.3	5.0	4.6	5.1	5.2	5.3	6.0	6.0
El Paso, Tex	10.5	10.5	10.8	10.4	10.5	10.4	10.6	10.4	10.4	10.7	10.0	10.3	11.3	11.2	11.1	12.3	11.9	11.4	10.1	9.3	9.5	9.5	9.2	10.0	10.5
Erie, Pa	16.2	15.0	15.0	14.9	14.8	15.3	15.4	15.7	16.3	16.3	16.8	16.3	16.7	16.7	16.4	16.2	15.2	15.3	14.5	14.7	14.8	15.6	16.0	16.2	15.7
Escanaba, Mich	10.5	10.2	10.2	10.1	9.9	9.1	9.2	9.2	9.5	10.6	12.0	12.5	13.0	13.2	13.4	12.9	12.0	11.2	10.6	10.7	10.8	10.5	10.8	10.7	11.0
Eureka, Cal	4.2	4.2	4.3	4.5	4.7	4.6	5.2	4.8	4.6	4.4	5.1	5.1	4.6	4.6	5.4	6.2	6.5	6.6	6.1	5.8	5.3	4.8	4.5	4.7	5.0
Evansville, Ind	7.7	7.7	7.7	7.6	8.3	8.5	8.0	7.6	7.9	8.5	9.7	9.8	10.3	10.1	10.0	9.8	9.4	8.5	8.1	8.4	8.4	8.8	9.1	8.1	8.7
Fort Canby, Wash	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fort Smith, Ark	8.5	8.1	8.1	8.3	8.8	8.1	84.	8.4	8.5	8.5	7.9	7.5	8.3	8.5	8.7	8.4	8.8	8.4	7.6	7.4	6.8	6.7	7.4	7.7	8.1
Fresno, Cal	3.6	4.0	3.8	3.8	3.6	3.5	3.3	3.4	3.5	3.5	3.5	3.9	4.0	4.5	5.0	4.6	4.8	4.3	4.5	3.9	3.9	3.6	3.9	3.9	3.9
Galveston, Tex	10.6	11.1	10.7	10.8	10.1	10.3	9.8	10.4	10.9	11.8	11.8	12.0	11.8	11.6	11.8	12.0	11.5	11.6	10.7	10.5	10.6	11.0	11.3	10.7	11.1
Grand Haven, Mich	12.5	12.9	12.9	13.1	13.7	13.9	14.0	13.5	13.3	14.0	14.7	14.3	14.4	14.9	15.3	14.7	14.4	13.4	13.3	13.5	13.4	13.3	13.2	12.9	13.7
Grand Junction, Colo.	3.3	3.5	3.0	3.2	3.3	3.2	3.5	3.3	3.3	3.5	3.8	4.5	4.6	4.5	4.4	4.3	4.1	3.8	3.5	2.8	2.9	3.0	2.9	2.9	3.5
Green Bay, Wis	8.8	8.8	8.8	9.3	9.3	9.3	9.1	9.7	10.0	11.1	12.1	11.7	12.0	13.0	12.6	12.6	11.5	9.5	9.2	9.1	9.5	9.7	9.6	9.4	10.2
Hannibal, Mo	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Harrisburg, Pa	7.1	7.3	7.5	8.1	7.8	8.6	8.5	8.2	8.1	9.5	10.8	11.5	12.2	12.2	11.9	11.0	9.8	9.1	8.9	8.4	7.5	7.5	7.2	7.2	9.0
Hatteras, N. C	13.4	13.9	14.2	14.8	15.6	14.6	14.4	14.7	14.1	14.6	15.1	14.5	14.2	14.2	13.7	14.1	13.8	13.7	13.2	13.6	14.1	13.7	14.0	13.8	14.2
Havre, Mont	12.7	12.0	12.2	11.9	10.5	9.9	10.0	10.2	11.3	10.9	10.7	11.1	12.5	13.3	13.5	13.5	12.8	12.2	11.3	11.8	12.0	13.1	12.2	12.0	11.8
Helena, Mont	6.5	5.8	6.8	6.1	6.5	5.2	6.2	5.0	4.9	5.1	5.1	5.6	5.9	6.7	7.6	7.7	7.3	7.1	7.5	7.5	7.8	7.9	8.0	7.0	6.5
Huron, S. Dak	9.5	9.1	8.5	8.6	7.5	7.7	8.0	7.5	7.9	7.8	8.6	9.6	11.0	11.6	12.4	12.4	11.6	9.9	8.9	9.5	10.0	9.8	9.6	9.6	9.4
Independence, Cal	7.9	8.4	8.5	8.8	8.5	8.0	8.2	9.1	8.5	9.4	8.4	8.0	8.2	8.3	8.5	8.6	9.0	9.0	8.3	8.3	7.9	6.2	7.1	7.4	8.3
Indianapolis, Ind	12.4	12.2	12.7	12.5	12.7	12.5	12.0	12.1	12.8	13.1	13.6	13.7	14.6	14.0	13.9	13.6	13.2	12.0	11.7	11.3	11.7	12.3	12.6	12.2	12.7
Jacksonville, Fla	6.3	6.6	6.5	7.0	6.4	6.5	6.8	6.6	7.1	8.3	9.2	10.0	10.6	10.3	10.6	10.0	9.5	8.1	7.6	7.5	7.5	7.4	7.0	7.1	7.9
Jupiter, Fla	10.8	10.8	10.6	10.5	10.6	10.2	10.4	10.5	11.3	12.2	12.4	12.6	12.9	13.5	13.4	13.1	12.1	10.7	9.9	10.2	10.9	11.4	11.2	11.3	11.4
Kalispell, Mont	5.3	4.7	4.3	4.5	4.3	4.3	4.7	4.0	4.2	4.3	4.5	4.3	4.4	4.4	4.2	3.9	4.3	4.5	4.4	4.4	4.4	4.9	5.2	5.0	4.5
Kansas City, Mo	8.9	9.3	8.6	8.2	8.2	7.6	7.1	7.4	7.9	8.1	8.4	8.2	8.8	8.9	9.9	9.4	8.8	8.0	7.7	7.9	8.6	8.5	8.5	8.6	8.4
Keokuk, Iowa	8.6	9.0	8.6	8.6	8.5	8.4	8.4	7.9	7.9	8.0	8.6	9.1	9.4	10.1	10.1	9.9	9.9	8.7	8.8	8.5	8.3	8.0	8.5	8.0	8.7
Key West, Fla	12.6	12.9	12.8	12.9	13.0	12.7	13.2	13.3	13.8	14.1	13.8	13.6	13.7	13.5	13.7	13.4	13.0	12.2	12.1	12.3	11.8	11.9	11.9	12.0	12.9
Kittyhawk, N. C	13.1	13.5	13.6	13.6	14.1	14.5	14.6	14.9	15.5	16.0	15.6	15.3	14.5	15.7	14.9	13.3	12.4	11.9	11.3	11.4	11.5	13.3	13.1	13.4	13.8
Knoxville, Tenn	7.0	7.0	6.8	7.2	7.4	7.7	7.4	7.9	7.9	7.6	8.1	8.4	8.4	10.1	9.8	10.4	9.5	8.5	8.4	8.4	7.8	7.1	7.9	7.3	8.1
La Crosse, Wis	7.8	8.1	7.6	7.7	7.4	7.4	7.5	7.3	7.4	6.7	7.7	8.8	9.5	8.9	8.8	8.5	8.4	8.1	8.3	7.7	8.2	7.8	8.4	7.7	8.0
Lander, Wyo	3.2	2.7	2.7	2.6	2.8	2.8	2.7	2.5	2.4	2.6	2.0	2.2	2.7	3.2	3.9	3.9	4.1	3.8	3.5	3.9	3.7	2.8	2.9	2.6	3.0
Lexington, Ky	12.4	12.3	11.9	12.0	11.8	11.5	11.2	11.7	11.7	12.1	13.1	13.1	14.1	13.7	13.4	12.6	11.9	11.1	11.3	11.6	12.0	12.3	12 7	12.1	12.2
Little Rock, Ark	6.6	7.1	7.4	8.1	8.1	8.1	8.3	8.5	8.7	9.4	10.0	10.1	9.6	9.5	10.4	10.3	9.4	8.0	6.8	6.7	6.7	6.2	6.7	6.7	8.2
Los Angeles, Cal	2.4	3.0	2.7	3.1	2.9	3.0	3.4	3.2	3.3	3.5	3.4	3.6	3.6	3.8	3.7	4.4	4.8	4.9	5.2	3.7	2.8	2.3	2.3	2.3	3.4
Louisville, Ky	9.0	8.4	8.7	8.5	9.0	9.3	8.6	8.5	8.4	9.5	10.7	11.2	11.7	11.4	11.1	10.9	10.3	10.2	9.7	9.6	9.1	9.3	9.3	9.9	9.7
Lynchburg, Va	4.0	3.7	3.4	3.6	3.3	3.5	3.5	3.3	3.7	4.7	6.1	6.5	7.1	7.1	6.8	6.3	5.7	4.3	3.9	3.8	3.5	3.6	3.7	3.5	4.5
Macon, Ga	7.3	7.3	7.2	7.4	6.5	6.2	6.1	6.7	7.0	7.7	7.8	8.4	8.9	9.3	8.7	8.3	7.3	6.1	5.7	6.0	6.0	5.8	5.9	6.7	7.1
Marquette, Mich	12.6	12.4	11.7	11.8	11.3	11.8	11.6	12.5	11.8	12.5	13.4	13.6	13.8	13.7	13.4	13.1	11.9	11.5	12.1	13.5	13.8	14.2	14.3	14.5	12.8
Memphis, Tenn	11.4	11.5	11.5	10.8	11.0	11.1	11.5	12.0	12.0	12.3	12.9	12.5	12.6	12.4	12.3	12.8	12.2	11.3	10.5	10.8	11.0	11.5	11.4	11.3	11.7
Milwaukee, Wis	12.1	11.9	11.6	11.4	11.4	11.1	11.9	11.7	12.4	12.8	13.6	13.5	13.4	13.6	13.6	13.7	13.0	11.9	12.3	12.5	12.0	12.1	11.7	12.2	12.4
Minneapolis, Minn	12.4	12.0	12.1	12.1	12.4	13.0	12.7	12.7	12.5	12.5	13.4	13.0	13.5	13.7	13.8	14.0	14.1	13.3	13.6	13.3	14.1	13.6	12.9	13.0	13.1
Mobile, Ala	8.4	7.5	7.2	7.0	7.0	7.1	7.1	6.4	6.6	7.0	7.7	7.9	8.8	9.5	9.9	10.3	9.8	8.9	8.5	7.8	8.1	8.0	8.0	8.5	8.0
Montgomery, Ala	6.4	5.5	5.9	5.8	5.7	6.0	5.7	5.6	5.7	6.7	7.2	7.3	7.6	8.1	8.2	7.7	7.4	6.5	6.9	6.6	7.1	7.5	6.9	6.2	6.7
Minneapolis, Minn	10.1	9.8	10.1	9.6	9.4	9.5	9.0	9.1	8.7	8.5	9.3	10.3	10.3	10.9	11.5	11.3	11.4	10.4	9.5	10.4	10.8	10.5	10.5	10.6	10.1
Mount Tamalpais, Cal	25.0	23.7	24.9	24.9	24.5	25.1	25.8	25.4	24.9	24.9	24.4	25.7	24.9	22.2	21.5	21.1	20.7	22.1	22.8	23.0	24.5	24.4	23.4	23.9	23.9
Nantucket, Mass	11.8	11.5	11.5	11.7	11.5	12.0	11.3	11.1	11.3	12.6	13.1	13.4	13.3	14.1	13.4	12.8	11.1	11.2	11.2	11.8	12.4	11.3	11.6	11.8	12.0
Nashville, Tenn	6.8	6.5	6.5	5.5	5.5	5.4	5.8	6.4	7.6	7.9	9.6	10.0	10.5	10.3	10.2	9.8	9.7	8.5	8.0	8.4	7.9	7.4	7.0	7.2	7.9
Neah, Wash	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

TABLE V.—*Average wind movement, etc.*—Continued.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
New Haven, Conn	8.1	7.5	7.2	7.1	6.9	7.3	7.0	7.0	8.7	10.9	11.9	12.4	13.4	12.8	12.4	11.6	9.6	8.6	8.6	8.2	8.0	7.5	7.5	7.8	9.1
New Orleans, La	9.1	9.1	9.3	9.1	8.7	9.0	9.0	9.4	9.0	8.9	9.5	9.2	10.7	10.3	10.4	10.2	9.9	9.5	9.4	9.2	10.0	8.6	9.0	9.0	9.4
New York, N. Y	15.9	15.4	14.1	14.8	15.0	15.3	16.8	16.6	17.8	19.1	20.0	19.7	20.1	20.3	19.1	19.0	19.4	17.8	16.9	16.3	16.5	16.2	16.5	16.0	17.3
Norfolk, Va	8.2	7.9	8.2	8.4	8.7	8.8	9.0	8.9	9.8	10.8	10.9	11.0	10.9	11.2	11.3	10.6	9.8	8.1	8.2	8.3	8.1	8.4	8.2	8.0	9.2
Northfield, Vt	9.1	9.6	8.8	8.5	8.5	8.1	7.5	8.2	9.0	9.7	10.5	9.9	10.7	11.4	10.7	9.5	8.1	8.9	9.4	9.2	9.9	9.4	10.5	9.1	9.3
North Platte, Nebr	5.5	4.9	5.4	5.5	6.1	6.1	6.3	6.0	6.0	6.2	7.3	8.2	9.1	11.7	11.6	11.2	10.5	9.2	7.5	6.7	6.5	6.5	6.1	5.2	7.3
Oklahoma, Okla	10.4	10.4	10.7	10.9	10.5	10.4	10.3	10.1	10.5	11.1	12.1	12.8	12.7	14.4	14.1	13.5	13.1	10.9	9.3	9.3	10.1	10.9	10.5	10.8	11.2
Omaha, Nebr	7.7	8.2	8.8	8.7	8.4	8.6	7.9	8.1	8.6	9.4	9.5	9.2	9.8	10.1	9.9	10.2	10.6	9.7	9.0	9.2	9.8	9.5	9.3	8.6	9.1
Oswego, N. Y	14.6	14.4	14.0	13.5	13.9	13.8	13.6	13.0	13.3	13.8	14.3	14.2	14.7	13.4	13.5	13.5	13.0	13.3	13.9	14.4	14.5	14.7	14.7	14.5	13.9
Palestine, Tex	6.4	6.2	6.3	7.1	7.0	7.5	7.3	7.2	7.3	7.6	8.3	9.1	9.4	9.2	9.4	8.9	8.9	8.3	6.7	6.1	6.2	5.8	6.5	6.5	7.5
Parkersburg, W. Va	5.2	6.2	6.5	6.1	6.3	6.0	6.2	6.3	6.5	7.6	8.8	8.9	9.4	9.7	9.5	8.8	8.5	7.2	6.6	5.5	5.5	5.6	5.6	5.2	7.0
Pensacola, Fla	10.7	10.6	10.1	10.0	10.3	10.8	11.4	10.9	11.1	12.0	11.7	11.0	11.2	11.8	11.3	11.2	11.1	10.4	9.5	10.1	10.8	10.9	10.8	11.2	10.9
Phenix, Ariz	3.1	3.0	3.0	3.1	3.3	3.5	3.7	3.3	3.3	2.9	2.8	3.2	3.9	4.2	4.4	4.0	4.0	3.5	3.2	2.9	2.9	2.2	3.0	2.9	3.3
Philadelphia, Pa	8.6	8.6	8.1	9.0	9.2	9.4	9.8	10.8	11.1	12.5	13.0	12.9	12.7	12.3	11.7	10.9	10.7	9.5	8.7	8.8	9.5	9.2	8.6	8.8	10.2
Pierre, S. Dak	5.3	4.8	4.8	5.7	5.6	5.5	5.5	5.6	6.1	7.0	7.6	10.1	11.3	11.4	11.5	11.1	10.8	9.2	7.2	7.0	7.5	7.1	6.9	5.9	7.5
Pittsburg, Pa	6.9	6.6	6.7	6.5	6.5	6.3	6.2	6.5	7.0	7.7	8.6	8.7	8.8	8.3	8.9	8.5	8.2	8.2	6.8	6.7	6.4	6.3	7.0	7.1	7.3
Pocatello, Idaho	11.6	11.0	10.6	10.2	10.2	10.4	10.3	9.5	9.8	11.4	10.3	10.7	11.4	11.4	12.4	12.5	12.4	11.5	10.7	11.3	10.2	10.8	11.5	11.6	11.0
Point Reyes Lt., Cal	12.2	12.3	12.0	12.1	11.6	11.2	10.8	11.4	12.1	11.1	11.3	12.1	12.2	10.9	10.8	12.0	12.3	12.2	12.9	13.8	13.5	14.2	13.0	13.1	12.1
Port Crescent, Wash	2.8	3.1	3.0	2.8	2.9	3.1	3.0	3.6	3.4	3.6	3.5	3.1	3.4	3.7	3.9	4.1	4.4	4.4	4.1	3.8	3.3	3.0	3.1	3.2	3.4
Port Huron, Mich	10.6	11.0	11.2	11.1	11.0	11.7	12.6	12.6	13.5	14.7	16.4	17.4	17.2	16.6	15.8	15.0	14.4	12.3	12.3	12.1	11.7	11.5	11.4	10.9	13.1
Portland, Me	7.7	7.4	8.0	8.2	7.7	7.4	7.4	7.3	7.8	8.2	9.0	8.5	8.8	9.3	8.7	9.0	8.4	7.5	7.5	7.3	7.1	7.5	7.7	8.2	8.0
Portland, Oreg	8.7	9.7	9.7	9.2	9.9	9.5	9.2	8.7	8.2	8.2	7.9	7.5	7.8	7.5	9.3	9.3	9.1	8.3	9.0	8.7	7.5	6.9	7.8	7.5	8.5
Pueblo, Colo	6.6	6.5	6.2	5.4	5.1	4.9	4.7	5.0	5.4	5.3	5.3	6.7	8.7	9.3	8.0	8.2	7.9	7.4	7.2	6.4	5.7	4.5	5.7	6.1	6.3
Raleigh, N. C	5.6	5.8	6.3	6.8	6.5	6.1	5.5	6.0	6.6	7.5	8.0	7.5	7.9	8.1	7.5	7.6	6.1	4.8	4.7	5.1	5.2	5.1	6.2	5.9	6.3
Rapid City, S. Dak	5.6	5.6	5.8	5.6	5.2	5.8	6.4	7.2	7.5	7.4	6.8	7.4	6.9	7.7	7.8	7.5	6.8	6.0	5.1	5.6	6.0	5.9	5.5	5.8	6.4
Red Bluff, Cal	4.2	4.4	4.8	4.8	5.0	4.7	4.5	4.5	4.1	4.4	4.8	4.8	5.0	6.1	7.3	7.3	7.0	6.4	5.8	5.3	5.5	5.5	4.7	4.7	5.2
Richmond, Va	5.8	5.7	5.4	5.1	4.9	4.9	5.2	5.4	6.1	6.4	7.9	8.4	8.6	9.0	8.7	8.5	7.2	6.5	5.6	5.5	5.3	5.2	5.2	5.4	6.3
Rochester, N. Y	8.3	8.0	8.3	8.8	8.8	8.0	7.7	7.7	7.9	8.5	9.2	9.9	10.9	10.6	10.6	9.4	9.3	9.6	9.7	9.6	10.2	9.7	9.4	9.3	9.1
Roseburg, Oreg	2.9	2.7	2.9	2.6	2.4	3.1	2.7	3.0	3.3	2.8	2.7	2.5	2.5	2.8	3.3	3.4	3.4	3.6	3.4	2.5	2.7	2.8	2.5	2.7	2.9
Sacramento, Cal	7.7	7.6	7.5	7.5	7.4	6.8	6.5	6.6	6.5	6.5	6.2	6.2	6.3	6.9	7.5	8.4	8.6	8.1	7.6	7.7	7.4	7.7	7.2	7.8	7.3
St. Louis, Mo	11.0	10.5	10.6	10.6	11.1	10.8	10.5	10.1	10.7	10.6	11.2	11.3	12.1	11.9	11.6	11.6	11.5	11.1	10.7	10.9	11.2	11.8	12.1	11.4	11.1
St. Paul, Minn	8.7	8.3	8.3	8.3	8.6	9.2	8.8	9.1	9.1	9.4	10.1	10.5	11.0	11.2	11.4	11.4	11.2	9.8	9.3	9.5	9.5	10.0	9.3	8.6	9.6
Salt Lake City, Utah	3.3	3.4	3.5	3.5	3.2	3.0	3.7	3.3	2.9	3.2	3.1	3.0	3.8	4.2	4.5	4.9	5.7	5.5	5.3	3.8	3.1	3.4	3.2	3.2	3.7
San Antonio, Tex	7.4	7.4	7.5	7.8	8.7	8.9	8.6	8.8	9.0	8.6	8.9	9.8	10.7	10.6	11.0	11.0	11.8	10.7	9.1	8.2	8.4	7.7	7.7	7.2	9.0
San Diego, Cal	2.9	3.0	3.9	4.0	3.8	4.0	3.9	3.7	3.9	4.2	3.5	3.0	3.0	3.5	4.7	6.1	7.5	8.2	7.0	5.4	4.2	3.4	3.1	3.4	4.3
Sandusky, Ohio	8.7	8.3	8.1	9.2	9.1	9.0	9.4	9.8	9.9	10.6	11.4	12.1	12.7	12.2	11.8	11.6	10.5	10.0	9.1	9.3	9.3	9.0	9.0	8.9	10.0
Sandy Hook, N. J	17.5	18.5	18.0	19.2	18.9	19.1	20.5	20.8	20.5	20.3	20.3	21.7	20.4	19.9	19.0	19.2	19.0	19.1	18.4	18.6	18.8	19.2	18.7	18.1	19.3
San Francisco, Cal	7.9	8.6	8.8	7.8	7.9	7.9	8.6	8.9	8.7	8.5	8.4	8.2	8.8	8.7	8.8	9.7	10.6	9.5	9.0	8.9	8.8	8.2	8.0	8.1	8.6
San Luis Obispo, Cal	3.7	3.9	3.5	3.9	4.3	4.5	4.3	4.6	4.7	3.8	4.2	4.0	4.5	5.4	6.2	7.5	7.3	6.9	6.6	5.8	4.9	4.5	4.5	4.1	4.9
Santa Fe, N. Mex	4.3	4.6	4.9	4.8	4.9	5.1	5.5	6.0	6.1	6.6	6.5	8.2	9.4	9.4	9.0	8.7	8.8	8.2	6.0	4.4	4.5	4.5	4.2	4.2	6.2
Sault Ste. Marie, Mich	10.5	10.1	10.2	9.7	9.4	8.8	8.2	8.5	8.2	8.4	8.7	9.5	9.8	9.8	10.5	10.2	10.6	10.2	10.1	11.0	11.7	11.4	10.5	10.5	9.9
Savannah, Ga	8.1	7.8	7.3	7.4	7.7	7.6	7.7	7.8	7.6	8.0	8.9	8.7	8.9	9.7	9.3	9.3	8.9	7.4	7.4	7.2	7.5	7.8	8.0	8.7	8.1
Seattle, Wash	6.5	6.3	6.4	6.5	6.6	6.6	6.4	6.3	6.3	6.1	6.7	6.8	7.1	6.5	6.9	6.4	7.1	6.7	7.1	6.6	6.7	6.2	6.7	6.6	6.6
Shreveport, La	7.8	7.0	6.9	7.3	7.5	7.0	7.4	7.5	6.8	7.7	8.9	8.5	8.8	8.3	8.5	8.5	9.0	8.3	7.4	7.2	7.3	7.6	8.0	7.6	7.8
Sioux City, Iowa	11.1	10.9	10.8	10.2	10.2	10.0	10.0	11.0	10.4	10.2	10.9	11.0	12.0	12.8	13.5	13.7	13.3	12.5	12.7	12.3	12.0	11.9	11.2	10.7	11.4
Spokane, Wash	6.0	5.1	4.9	4.3	4.5	5.0	4.8	5.2	5.4	5.9	5.9	5.9	6.2	6.3	6.3	6.3	6.2	6.0	5.4	5.6	5.1	4.8	5.0	5.5	5.5
Springfield, Ill	11.2	11.0	11.1	11.2	10.9	10.3	10.2	10.6	10.5	11.0	11.5	11.1	12.1	11.8	11.8	11.7	10.4	9.4	9.4	9.7	10.9	10.9	11.2	11.4	10.9
Springfield, Mo	11.7	11.2	10.8	11.2	11.0	11.3	10.6	10.4	11.0	10.6	10.6	10.9	11.1	10.9	11.4	10.8	10.2	9.4	8.9	9.9	10.3	10.9	11.5	12.0	10.8
Tacoma, Wash	7.0	6.4	6.2	6.4	6.8	6.6	6.9	6.4	6.2	5.7	6.0	6.5	6.6	6.5	6.5	7.2	7.6	6.6	6.6	6.5	6.8	6.2	6.3	6.8	6.5
Tampa, Fla	5.4	5.2	5.4	5.1	5.4	5.4	5.5	5.8	6.4	8.0	8.5	8.8	8.6	9.2	9.3	8.9	8.5	6.5	6.5	7.1	7.1	6.8	7.1	6.6	6.9
Toledo, Ohio	9.6	9.7	9.8	10.4	11.0	11.6	11.5	11.6	12.5	13.3	13.8	14.6	15.3	14.7	14.7	13.7	12.1	10.9	10.1	10.5	10.0	9.9	9.6	9.6	11.7
Vicksburg, Miss	8.2	8.3	8.3	8.5	8.7	8.0	7.8	7.4	8.1	8.2	9.5	9.1	9.3	9.8	9.7	9.7	9.0	7.9	7.4	7.0	7.1	7.7	8.5	8.3	8.4
Vineyard Haven, Mass	8.7	8.9	8.9	9.5	9.5	9.4	9.1	9.0	9.5	10.2	11.0	11.1	11.7	11.8	11.6	10.5	9.6	9.1	9.8	9.1	9.3	9.2	9.4	9.0	9.8
Walla Walla, Wash	4.9	5.0	4.9	4.9	4.5	3.9	5.0	5.6	5.5	5.5	5.6	5.1	5.5	6.3	6.5	6.5	6.1	5.7	4.8	5.2	4.7	5.1	5.4	4.6	5.3
Washington, D. C	5.4	5.4	5.6	6.4	6.0	5.7	5.6	5.4	6.2	7.7	9.6	9.8	10.4	10.3	10.6	10.1	8.6	6.9	6.3	6.4	6.1	6.0	6.0	6.1	7.2
Wichita, Kans	8.1	8.1	7.7	7.6	7.5	7.1	7.4	7.4	7.1	7.3	8.7	9.1	10.1	9.8	9.8	10.3	10.3	8.9	8.5	8.5	8.6	8.5	8.8	8.2	8.5
Williston, N. Dak	6.3	6.4	8.0	7.9	8.3	8.1	6.8	7.1	7.5	7.0	7.6	8.1	9.6	9.9	10.5	10.2	9.5	7.8	6.6	6.6	7.1	7.0	6.9	6.5	7.8
Wilmington, N. C	7.0	7.3	6.9	7.5	8.0	7.7	7.9	8.1	8.2	8.6	9.6	9.9	11.0	11.2	11.1	9.6	7.9	6.7	6.7	6.6	6.5	6.5	6.2	6.1	8.0
Winnemucca, Nev	7.4	7.3	7.5	8.1	8.7	8.7	8.9	8.5	8.1	8.8	8.8	8.5	9.8	10.4	10.5	10.5	9.9	9.7	8.8	8.5	8.0	8.1	6.8	7.1	8.6
Woods Hole, Mass	16.3	16.6	16.5	17.0	17.2	17.0	16.7	15.8	16.7	16.1	16.4	16.7	16.8	16.7	17.5	16.5	16.0	15.9	16.8	16.6	16.6	16.1	16.5	16.7	16.6
Yankton, S. Dak	7.2	7.7	7.6	7.5	6.7	6.5	6.6	6.7	6.7	6.4	7.4	8.5	9.3	9.9	10.3	10.5	10.3	9.7	8.2	8.4	7.9	7.5	7.9	7.4	8.0
West Indies.																									
Basseterre, St. Kitts	7.3	7.5	7.5	7.8	7.4	7.5	7.6	8.6	10.1	10.5	10.4	10.1	9.7	9.9	9.5	8.3	7.3	7.0	7.0	7.3	7.5	7.8	7.6	7.5	8.3
Bridgetown, Bar	3.4	3.3	3.5	3.8	3.9	3.5	3.9	7.0	9.0	9.1	9.5	9.3	9.5	8.9	8.7	7.5	5.7	3.5	3.6	3.7	3.6	3.8	3.5	3.6	5.6
Cienfuegos, Cuba	5.7	5.3	5.4	5.8	5.6	5.1	4.7	5.0	5.8	7.8	10.3	10.2	10.1	10.2	9.8	9.7	9.7	7.8	6.8	6.5	6.5	6.2	6.4	5.8	7.2
Havana, Cuba	6.9	6.9	6.9	6.7	7.0	7.3	7.6	7.1	8.2	11.2	13.6	13.8	14.6	15.7	16.6	16.7	16.7	14.0	11.5	10.3	9.6	8.8	8.6	8.0	10.6
Kingston, Jamaica	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port of Spain, Trin	1.3	1.5	1.5	1.4	1.5	1.3	1.4	2.8	4.8	5.4	5.8	6.6	7.1	6.3	5.8	4.6	4.0	2.9	2.4	2.2	1.8	1.6	1.7	1.5	3.2
Puerto Principe, Cuba	3.9	4.1	4.4	4.3	4.5	4.4	4.0	4.7	6.9	9.7	11.6	11.4	10.9	10.9	11.0	10.9	9.8	7.2	6.0	5.7	5.2	5.2	5.0	4.5	6.9
Roseau, Dominica	5.0	5.5	5.3	5.1	5.2	5.1	4.3	3.3	4.3	5.2	6.2	6.1	6.0	5.5	5.3	4.7	4.6	5.5	5.4	5.5	5.6	5.4	5.2	5.4	5.2
San Juan, Puerto Rico	9.0	8.5	8.5	8.5	8.0	8.1	8.7	9.2	10.3	11.1	11.7	11.7	11.8	12.4	11.9	11.6	11.0	10.7	10.3	10.1	9.7	8.9	8.8	9.1	10.0
Santiago de Cuba	4.9	4.7	4.7	4.7	4.8	4.4	4.5	5.1	6.5	8.0	8.8	8.8	8.9	8.5	8.1	7.8	7.1	6.0	5.5	5.7	5.7	5.5	5.6	5.3	6.2
Santo Domingo, S. D.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Willemstad, Curaçao	8.1	8.1	7.7	7.8	7.8	7.8	7.7	9.8	11.4	11.9	12.3	12.5	12.5	12.5	12.3	11.2	10.3	9.8	9.2	9.2	9.0	9.2	8.7	8.5	9.8

TABLE VI.—*Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of December, 1899.*

Stations.	Component direction from— N.	S.	E.	W.	Resultant. Direction from—	Duration.
	Hours.	Hours.	Hours.	Hours.	°	Hours.
New England.						
Eastport, Me	23	13	10	27	n. 60 w.	20
Portland, Me	21	18	6	32	n. 83 w.	26
Northfield, Vt	8	47	1	13	s. 17 w.	41
Boston, Mass	11	26	7	32	s. 59 w.	29
Nantucket, Mass	23	19	9	26	n 78 w.	19
Woods Hole, Mass	20	16	12	25	n. 73 w.	14
Block Island, R. I	17	14	8	36	n. 84 w.	28
New Haven, Conn	26	12	8	31	n. 59 w.	27
Middle Atlantic States.						
Albany, N. Y	16	29	4	20	s. 51 w.	21
Binghamton, N. Y.†	5	9	2	21	s. 78 w.	19
New York, N. Y	25	14	10	29	n. 60 w.	22
Harrisburg, Pa.†	9	9	8	15	w.	7
Philadelphia, Pa	22	15	11	29	n. 69 w.	19
Atlantic City, N. J	24	12	4	32	n. 67 w.	30
Cape May, N. J	23	15	8	30	n. 70 w.	23
Baltimore, Md	13	15	16	30	s. 82 w.	14
Washington, D. C	17	21	10	25	s. 75 w.	16
Lynchburg, Va	10	21	13	31	s. 59 w.	21
Norfolk, Va	26	16	14	19	n. 27 w.	11
Richmond, Va	20	22	13	20	s. 74 w.	7
South Atlantic States.						
Charlotte, N. C	24	19	19	17	n. 22 e.	5
Hatteras, N. C	33	9	8	22	n. 30 w.	28
Raleigh, N. C	28	14	11	26	n. 47 w.	20
Wilmington, N. C	27	14	14	25	n. 40 w.	17
Charleston, S. C	30	12	13	21	n. 24 w.	20
Augusta, Ga	23	7	10	31	n 53 w.	26
Savannah, Ga	27	13	15	19	n. 16 w.	15
Jacksonville, Fla	33	9	22	16	n. 14 e.	25
Florida Peninsula.						
Jupiter, Fla	18	14	25	19	n. 56 e.	7
Key West, Fla	28	5	37	8	n. 52 e.	37
Tampa, Fla	37	7	26	12	n. 25 e.	33
Eastern Gulf States.						
Atlanta, Ga	21	11	20	28	n. 39 w.	13
Macon, Ga †	14	4	8	11	n. 17 w.	10
Pensacola, Fla.†	14	5	16	4	n. 53 e.	15
Mobile, Ala	31	13	19	13	n. 18 e.	19
Montgomery, Ala	21	10	27	13	n. 52 e.	18
Meridian, Miss.†	10	6	12	9	n. 37 e.	5
Vicksburg, Miss	17	17	30	7	e.	23
New Orleans, La	29	10	15	20	n. 15 w.	20
Western Gulf States.						
Shreveport, La	17	18	27	16	s. 85 e.	11
Fort Smith, Ark	14	7	33	14	n. 70 e.	20
Little Rock, Ark	31	11	19	14	n. 14 e.	21
Corpus Christi, Tex	28	16	15	15	n.	12
Fort Worth, Tex†	15	8	6	13	n. 45 w.	10
Galveston, Tex	21	13	26	13	n. 58 e.	15
Palestine, Tex	28	18	21	14	n. 35 e.	12
San Antonio, Tex	27	17	16	16	n.	10
Ohio Valley and Tennessee.						
Chattanooga, Tenn	23	17	15	22	n. 49 w.	9
Knoxville, Tenn	23	14	17	26	n. 45 w.	13
Memphis, Tenn	28	18	15	15	n.	10
Nashville, Tenn	23	23	12	21	w.	9
Lexington, Ky.†	7	14	6	12	s. 41 w.	9
Louisville, Ky	13	22	11	28	s. 62 w.	19
Evansville, Ind.†	9	10	6	11	s. 79 w.	5
Indianapolis, Ind	15	24	3	33	s. 73 w.	31
Cincinnati, Ohio	7	25	13	28	s. 40 w.	23
Columbus, Ohio	5	24	11	35	s. 51 w.	31
Pittsburg, Pa	16	22	11	32	s. 74 w.	22
Parkersburg, W. Va	11	28	7	29	s. 53 w.	28
Elkins, W. Va	14	21	6	31	s. 74 w.	25
Lower Lake Region.						
Buffalo, N. Y	8	20	5	37	s. 69 w.	34
Oswego, N. Y	10	32	16	22	s. 15 w.	23
Rochester, N. Y	6	31	7	36	s. 49 w.	38
Erie, Pa	12	30	4	32	s. 57 w.	33
Cleveland, Ohio	3	37	14	22	s. 13 w.	35
Sandusky, Ohio	6	31	7	38	s. 51 w.	40
Toledo, Ohio	6	28	7	36	s. 53 w.	36
Detroit, Mich	7	30	7	37	s. 53 w.	38
Upper Lake Region.						
Alpena, Mich	16	19	5	36	s. 84 w.	31
Escanaba, Mich	12	21	4	39	s. 76 w.	36
Grand Haven, Mich	22	18	10	28	n. 77 w.	18
Marquette, Mich	13	14	6	40	s. 88 w.	34
Port Huron, Mich	7	31	7	30	s. 44 w.	33
Sault Ste. Marie, Mich	18	17	24	17	n. 82 e.	7
Chicago, Ill	16	20	6	38	s. 83 w.	32
Milwaukee, Wis	15	13	2	41	n. 87 w.	39
Green Bay, Wis	12	23	2	34	s. 71 w.	34
Duluth, Minn	.....	.....	.....	.....	.....	.....
North Dakota.						
Moorhead, Minn	28	13	6	36	n. 63 w.	34
Bismarck, N. Dak	34	6	11	27	n. 30 w.	32
Williston, N. Dak	23	16	12	25	n. 62 w.	15
Upper Mississippi Valley.						
St. Paul, Minn	26	16	7	32	n. 68 w.	27
La Crosse, Wis. †	11	12	5	9	s. 76 w.	4
Davenport, Iowa	13	17	10	38	s. 82 w.	28
Des Moines, Iowa	31	6	12	26	n. 29 w.	29
Dubuque, Iowa	16	20	8	34	s. 81 w.	26
Keokuk, Iowa	18	21	6	32	s. 83 w	26
Cairo, Ill	24	19	12	22	n. 63 w.	11
Springfield, Ill	19	20	5	34	s. 88 w.	29
Hannibal, Mo.†	11	10	2	16	n. 86 w.	14
St. Louis, Mo	12	22	9	29	s. 63 w.	22
Missouri Valley.						
Columbia, Mo.*	9	8	7	15	n. 83 w.	8
Kansas City, Mo	26	18	13	24	n. 54 w.	14
Springfield, Mo	26	18	20	15	s. 32 w.	9
Lincoln, Nebr	27	22	10	17	n. 54 w.	9
Omaha, Nebr	31	17	12	17	n. 20 w.	15
Sioux City, Iowa†	12	9	4	12	n. 69 w.	8
Pierre, S. Dak	25	11	18	22	n. 16 w.	15
Huron, S. Dak	24	14	12	27	n. 56 w.	18
Yankton, S. Dak †	13	6	3	15	n 60 w.	41
Northern Slope.						
Havre, Mont	16	17	21	29	s. 83 w.	8
Miles City, Mont	20	20	14	13	e.	1
Helena, Mont	14	25	3	36	s. 15 w.	11
Kalispell, Mont	30	13	4	33	n. 60 w.	34
Rapid City, S. Dak	30	8	12	30	n. 39 w.	28
Cheyenne, Wyo	28	11	1	36	n. 61 w.	39
Lander, Wyo	14	31	18	22	s. 13 w.	18
North Platte, Nebr	16	20	14	26	s. 72 w.	13
Middle Slope.						
Denver, Colo	15	33	8	17	s. 27 w.	20
Pueblo, Colo	23	10	20	19	n. 4 e.	13
Concordia, Kans	21	22	15	16	s. 45 w.	1
Dodge, Kans	26	13	12	23	n. 40 w.	17
Wichita, Kans	29	20	10	14	n. 24 w.	10
Oklahoma, Okla	32	16	14	14	n.	16
Southern Slope.						
Abilene, Tex	20	21	11	24	s. 86 w.	13
Amarillo, Tex	28	18	9	17	n. 39 w.	13
Southern Plateau.						
El Paso, Tex	27	4	18	30	n. 28 w.	26
Santa Fe, N. Mex	30	14	25	10	n. 43 e.	12
Flagstaff, Ariz	21	9	24	20	n. 18 e.	13
Phenix, Ariz	11	10	27	23	n. 76 e.	4
Yuma, Ariz	46	2	13	15	n. 3 w.	44
Independence, Cal	27	13	6	34	n. 63 w.	31
Middle Plateau.						
Carson City, Nev	19	19	16	24	w.	8
Winnemucca, Nev	21	13	27	13	n. 60 e.	16
Cedar City, Utah	17	22	23	18	s. 63 e.	11
Salt Lake City, Utah	13	28	17	17	s.	15
Grand Junction, Colo	27	10	26	21	n. 16 e.	18
Northern Plateau.						
Baker City, Oreg	6	42	15	10	s. 8 e.	36
Boise, Idaho	10	27	22	19	s. 10 e.	17
Pocatello, Idaho	15	27	18	14	s. 18 e.	13
Spokane, Wash	16	24	22	13	s. 48 e.	12
Walla Walla, Wash	4	45	7	14	s. 10 w.	42
North Pacific Coast Region.						
Neah, Wash	.....	.....	.....	.....	.....	.....
Port Crescent, Wash.*	0	17	8	16	s. 25 w.	19
Seattle, Wash	11	35	26	8	s. 54 e.	41
Tacoma, Wash	7	38	11	20	s. 16 w.	32
Portland, Oreg	12	30	21	10	s. 31 e.	21
Roseburg, Oreg	9	31	26	12	s. 32 e.	26
Middle Pacific Coast Region.						
Eureka, Cal	14	25	26	13	s. 50 e.	17
Mount Tamalpais, Cal	30	9	20	15	n. 13 e.	22
Red Bluff, Cal	24	17	18	15	n. 23 e.	8
Sacramento, Cal	19	31	20	7	s. 47 e.	18
San Francisco, Cal	30	14	7	25	n. 48 w.	24
South Pacific Coast Region.						
Fresno, Cal	11	24	16	19	s. 13 w.	13
Los Angeles, Cal	30	9	9	24	n. 35 w.	26
San Diego, Cal	29	9	21	17	n. 11 e.	20
San Luis Obispo, Cal	35	7	5	16	n. 22 w.	30
West Indies.						
Basseterre, St. Kitts Island	38	3	35	1	n. 44 e.	49
Bridgetown, Barbados	27	4	45	0	n. 63 e.	50
Cienfuegos, Cuba	44	4	29	4	n. 32 e.	47
Havana, Cuba	14	10	39	8	n. 33 e.	31
Kingston, Jamaica	.....	.....	.....	.....	.....	.....
Port of Spain, Trinidad	25	8	37	6	n. 61 e.	35
Puerto Principe, Cuba	41	1	32	5	n. 34 e.	48
Roseau, Dominica, W. I	20	9	38	9	n. 69 e.	31
San Juan, Puerto Rico	22	17	36	6	n. 81 e.	30
Santiago de Cuba, Cuba	43	6	28	4	n. 33 e.	44
Santo Domingo, S. Domingo, W. I.	.....	.....	.....	.....	.....	.....
Willemstad, Curaçao	15	0	35	0	n. 75 e.	57

* From observations at 8 p. m. only

† From observations at 8 a. m. only.

TABLE VII.—*Thunderstorms and auroras, December, 1899.*

States.	No. of stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total. No.	Total. Days.	
Alabama	53	T.										3	3			1				1														8	4	T.
		A.																																0	0	A.
Arizona	53	T.																															1	1	1	T.
		A.																																0	0	A.
Arkansas	57	T.			1					1		6	2			1			1	15	2													29	8	T.
		A.																																0	0	A.
California	189	T.								4						1																2	1	8	4	T.
		A.																																0	0	A.
Colorado	73	T.																																0	0	T.
		A.																																0	0	A.
Connecticut	22	T.																																0	0	T.
		A.																																0	0	A.
Delaware	5	T.																																0	0	T.
		A.																																0	0	A.
Dist. of Columbia	4	T.																																0	0	T.
		A.																																0	0	A.
Florida	45	T.											1			1																		2	2	T.
		A.																																0	0	A.
Georgia	54	T.																																0	0	T.
		A.																																0	0	A.
Idaho	27	T.																																0	0	T.
		A.																																0	0	A.
Illinois	92	T.	4										9																					13	2	T.
		A.																																0	0	A.
Indiana	55	T.																																0	0	T.
		A.																																0	0	A.
Indian Territory	8	T.																																0	0	T.
		A.																																0	0	A.
Iowa	126	T.																																0	0	T.
		A.																																0	0	A.
Kansas	74	T.			1							2																						3	2	T.
		A.																																0	0	A.
Kentucky	45	T.																																0	0	T.
		A.																																0	0	A.
Louisiana	45	T.								1	3	14	7	1		3	1	1		2	2													35	10	T.
		A.																																0	0	A.
Maine	17	T.				1																												1	1	T.
		A.																																0	0	A.
Maryland	39	T.				2															1													3	2	T.
		A.				1																			1									2	2	A.
Massachusetts	54	T.						2																										2	1	T.
		A.																																0	0	A.
Michigan	107	T.	1																															1	1	T.
		A.	1																				1											2	2	A.
Minnesota	64	T.																																0	0	T.
		A.								1																				1	1			3	3	A.
Mississippi	42	T.										9	4							1	3													17	4	T.
		A.																																0	0	A.
Missouri	89	T.									1	1	3						1	1				1			1							9	7	T.
		A.																																0	0	A.
Montana	37	T.																							1									1	1	T.
		A.		1	1					1		1			1																			5	5	A.
Nebraska	145	T.																																0	0	T.
		A.																																0	0	A.
Nevada	45	T.																																0	0	T.
		A.																																0	0	A.
New Hampshire	20	T.																																0	0	T.
		A.																																0	0	A.
New Jersey	50	T.																																0	0	T.
		A.																																0	0	A.
New Mexico	38	T.																																0	0	T.
		A.																																0	0	A.
New York	103	T.																																0	0	T.
		A.																																0	0	A.
North Carolina	56	T.																																0	0	T.
		A.																																0	0	A.
North Dakota	40	T.																																0	0	T.
		A.																			1								2		2			5	3	A.
Ohio	124	T.																																0	0	T.
		A.																																0	0	A.
Oklahoma	22	T.																																0	0	T.
		A.																																0	0	A.
Oregon	71	T.		1					1							3						2										2		9	5	T.
		A.																																0	0	A.
Pennsylvania	100	T.																																0	0	T.
		A.																																0	0	A.
Rhode Island	8	T.																																0	0	T.
		A.																																0	0	A.
South Carolina	44	T.	1																															1	1	T.
		A.																																0	0	A.
South Dakota	52	T.				1									1																	1		3	3	T.
		A.																																0	0	A.
Tennessee	61	T.										3								2														5	2	T.
		A.																																0	0	A.
Texas	83	T.							1	1	1	3								5	1													12	6	T.
		A.																																0	0	A.
Utah	34	T.																																0	0	T.
		A.																																0	0	A.
Vermont	14	T.																																0	0	T.
		A.																																0	0	A.
Virginia	47	T.												1																				1	1	T.
		A.																																0	0	A.
Washington	55	T.					1						1									1												3	3	T.
		A.																																0	0	A.
West Virginia	38	T.																																0	0	T.
		A.																																0	0	A.
Wisconsin	60	T.																																0	0	T.
		A.																									1		1					2	2	A.
Wyoming	18	T.																																0	0	T.
		A.																																0	0	A.
Sums	2,804	T.	6	1	2	4	1	2	2	7	5	41	30	2	1	10	1	1	2	27	9	3	0	1	1	0	1	0	0	0	0	5	2	167	....	T.
		A.	1	1	1	1	0	0	0	2	0	1	0	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0	3	1	3	0	0	19	....	A.

TABLE VIII.—*Average hourly sunshine (in percentages), December, 1899.*

Stations.	Instrument.	Percentages for each hour of local mean time ending with the respective hour. A. M. 5	6	7	8	9	10	11	Noon	P. M. 1	2	3	4	5	6	7	8	Hours of sunshine. Total. Actual.	Possible.	Percent of possible.	Personal estimate.
																		Hours.	*Hours.*		
Albany, N. Y	T.				23	26	39	39	45	49	46	42	20	22				102.3	281.0	36	29
Atlanta, Ga	T.			61	39	51	53	61	61	60	66	65	55	33	0			168.7	307.7	55	45
Atlantic City, N. J	P.				56	63	76	86	90	84	77	72	60	58				214.3	293.7	73	58
Baltimore, Md	T.				12	27	58	65	74	71	69	61	32	22				149.2	293.7	51	55
Binghamton, N. Y	T.				17	29	37	40	44	48	33	32	22	20				94.7	284.7	33	26
Bismarck, N. Dak	P.				44	45	47	57	64	49	63	64	44	40				141.8	265.6	53	47
Boise, Idaho	P.																				35
Boston, Mass	T.				57	62	56	63	67	74	74	62	57	56				180.3	284.7	63	50
Buffalo, N. Y	T.				4	12	36	51	55	55	46	42	20	10				100.6	281.0	36	22
Cedar City, Utah	T.			82	58	60	71	80	83	77	69	63	61	50				200.8	296.7	68	57
Charleston, S. C	T.			60	48	49	53	50	59	52	49	45	42	41	33			152.6	310.7	49	48
Chattanooga, Tenn	T.			64	38	38	52	55	56	58	52	55	46	42				151.1	305.2	50	47
Cheyenne, Wyo	P.				42	55	70	75	73	65	76	71	53	33				182.0	287.8	63	53
Chicago, Ill	T.				9	11	23	45	56	58	51	44	29	31				105.5	284.7	37	37
Cincinnati, Ohio	T.				34	37	45	54	58	56	54	49	48	50				143.2	293.7	49	48
Cleveland, Ohio	T.				13	13	19	26	25	26	22	18	14	13				55.6	284.7	20	26
Columbia, Mo	T.				58	64	72	72	70	72	65	55	48	46				184.6	293.7	63	37
Columbus, Ohio	T.				33	39	46	45	48	51	48	46	42	39				128.4	291.7	44	37
Denver, Colo	P.				67	71	82	75	75	71	74	76	66	62				211.3	291.7	72	68
Des Moines, Iowa	T.				39	37	44	54	53	55	51	44	36	37				130.1	284.7	46	38
Detroit, Mich	T.				4	17	44	49	43	45	40	31	25	16				94.8	284.7	33	30
Dodge, Kans	P.			18	33	42	46	52	51	41	45	45	35	29				125.2	296.7	42	39
Dubuque, Iowa	T.				38	45	51	59	62	59	52	43	39	40				140.8	284.7	49	48
Eastport, Me	P.				34	33	42	43	41	45	48	45	37	38				113.3	274.3	41	33
Elkins, W. Va	T.				22	23	36	48	50	61	53	44	34	30				119.8	293.7	41	39
Erie, Pa	T.				6	10	23	31	26	25	26	18	15	16				57.5	284.7	20	18
Escanaba, Mich	T.				27	34	40	42	47	50	41	39	17	18				98.1	269.6	36	39
Eureka, Cal	P.				19	30	36	43	54	56	57	46	46	39				125.2	287.8	44	38
Fresno, Cal	T.			0	1	11	13	14	19	23	20	23	18	10				46.0	299.4	15	14
Galveston, Tex	P.			24	30	51	53	56	52	54	55	55	49	33	12			153.3	320.2	48	44
Grand Junction, Colo	P.				57	56	56	65	60	71	69	71	64	55				184.2	293.7	63	56
Harrisburg, Pa	T.				42	41	42	52	51	53	57	51	36	36				135.9	291.7	47	43
Helena, Mont	P.				7	9	19	41	39	38	40	27	14	14				72.2	265.6	27	27
Huron, S. Dak	T.				54	52	55	65	70	77	76	62	56	56				175.3	277.7	63	55
Indianapolis, Ind	T.				38	42	46	49	50	49	48	49	48	50				137.3	291.7	47	38
Jacksonville, Fla	T.			25	23	35	48	50	46	49	49	42	38	29	29			128.7	317.8	40	38
Jupiter, Fla	T.			24	33	62	72	76	88	86	78	73	52	35	34			207.0	324.0	64	48
Kalispell, Mont	T.				0	3	12	23	25	32	28	16	5	2				44.4	262.1	17	17
Kansas City, Mo	P.				44	42	44	46	43	36	42	42	40	41				123.9	293.7	42	43
Key West, Fla	T.			47	49	71	87	87	92	92	93	84	62	46	44			245.3	329.1	75	55
Knoxville, Tenn	T.			67	45	48	52	51	48	58	55	44	35	33				142.8	302.5	47	42
Lexington, Ky	T.			0	21	40	49	50	57	55	55	52	35	29				134.1	296.7	45	38
Little Rock, Ark	T.			9	20	28	40	60	65	66	60	55	44	41				146.3	305.2	48	43
Los Angeles, Cal	P.			61	62	70	74	72	71	74	77	72	68	56				214.5	307.7	70	63
Louisville, Ky	T.			0	33	35	46	50	52	54	51	45	34	31				129.5	296.7	44	45
Macon, Ga	T.			48	33	41	55	62	65	64	55	53	48	29	11			156.6	310.7	50	41
Meridian, Miss	T.			52	39	39	43	45	44	46	47	45	38	38	50			132.7	313.0	42	40
Minneapolis, Minn	T.				35	39	40	45	50	46	38	33	33	43				110.0	274.3	40	
Mount Tamalpais, Cal	P.			82	54	56	62	63	62	64	63	58	59	55				177.7	296.7	60	54
Nashville, Tenn	T.			33	33	37	43	50	57	59	60	56	37	37				142.6	302.5	47	45
New Haven, Conn	T.				44	44	59	70	74	77	68	63	48	39				172.3	287.8	60	60
New Orleans, La	T.			20	13	14	29	43	51	51	48	38	33	36	29			112.0	317.8	35	38
New York, N. Y	T.				48	56	76	83	83	75	76	70	54	32				193.7	287.8	67	51
Northfield, Vt	P.				20	25	37	44	45	41	40	29	21	20				93.2	277.7	34	23
Oklahoma, Okla	T.			64	38	46	57	70	73	67	67	61	52	48				177.5	305.2	58	47
Omaha *	T.																				39
Parkersburg, W. Va	T.				30	25	44	50	50	50	47	35	30	40				118.3	293.7	40	40
Phenix, Ariz	P.			68	64	71	81	83	82	84	85	80	74	68	33			239.7	310.7	77	63
Philadelphia, Pa	T.				60	64	75	85	84	85	81	66	63	57				212.4	291.7	73	56
Pittsburg, Pa	T.				21	17	27	34	40	38	40	35	26	34				90.0	287.8	31	37
Pocatello, Idaho	T.				26	28	47	56	59	60	61	46	36	37				131.6	281.0	47	36
Portland, Me	T.				17	31	49	57	55	51	49	45	25	15				117.7	277.7	42	38
Portland, Oreg	T.				7	6	15	23	39	42	35	19	14	12				62.2	269.6	23	22
Pueblo, Colo	T.			45	45	46	62	79	85	86	79	75	55	48				197.9	296.7	67	57
Raleigh, N. C	T.			100	53	69	75	79	78	80	73	70	60	48				208.7	302.5	69	63
Rochester, N. Y	T.				9	5	22	29	30	18	27	26	17	16				58.0	281.0	21	18
St. Louis, Mo	T.				35	35	48	62	66	61	57	55	37	29				145.2	293.7	49	43
St. Paul, Minn	P.				41	50	50	49	52	45	45	42	30	25				121.4	274.3	44	42
Salt Lake City, Utah	P.				33	35	43	49	55	55	55	49	39	35				125.2	287.8	44	45
San Diego, Cal	P.			68	68	77	80	78	79	79	75	79	74	69	18			235.6	310.7	76	74
San Francisco, Cal	T.			45	47	47	61	73	75	78	71	68	62	58				190.5	296.7	64	62
Santa Fe, N. Mex	P.			67	68	71	77	86	79	81	80	82	75	72				233.8	302.5	77	66
Sault Ste. Marie, Mich	T.				11	10	21	33	30	23	17	14	7	7				50.2	269.6	19	22
Savannah, Ga	T.			55	55	50	52	58	68	59	55	48	40	39	33			163.5	313.0	52	49
Seattle, Wash	T.				0	0	1	10	17	15	5	7	2	0				18.1	262.1	7	11
Spokane, Wash	T.				12	7	15	19	22	27	22	19	14	16				46.7	262.1	18	12
Tacoma, Wash	T.				0	3	11	21	20	17	14	14	5	6				33.0	265.6	12	10
Tampa, Fla	T.			42	43	60	65	76	81	77	63	60	44	29	32			190.6	322.9	59	39
Toledo, Ohio	T.				15	31	38	46	49	51	44	39	30	17				107.5	284.7	38	35
Topeka, Kans.	T.				32	30	37	48	52	44	43	42	40	44				121.0	293.7	41	42
Vicksburg, Miss	T.			48	41	38	45	56	59	71	66	63	62	48	33			171.5	313.0	55	45
Washington, D. C	P.				72	76	74	74	73	77	79	70	56	55				208.8	293.7	71	66
Wilmington, N. C	T.			61	45	59	72	83	85	83	77	66	57	48	0			208.5	307.7	68	65
Yankton, S. Dak	T.				30	38	53	55	64	64	59	43	42	37				140.0	281.0	50	45
Basseterre, St. Kitts	T.			64	79	95	97	99	97	100	100	99	97	85	78			319.1	345.3	92	68
Bridgetown, Barbados	T.			48	68	73	83	79	73	71	70	67	54	47	37			230.7	353.4	65	42
Cienfuegos, Cuba	T.			81	80	81	84	85	89	84	82	65	63	65	65			260.4	335.4	78	76
Havana, Cuba	T.			31	34	58	76	87	84	80	79	75	65	58	55			226.0	334.7	68	64
Kingston, Jamaica, W. I	T.																				
Port of Spain, Trinidad, W. I	T.			63	72	85	90	90	85	73	71	61	57	39	31			246.4	356.5	69	47
Puerto Principe, Cuba	T.			54	53	71	69	71	64	65	58	53	53	45	46			200.9	338.2	59	53
Roseau, Dominica, W. I	T.			57	67	71	79	78	77	72	76	76	70	65	39			246.4	349.1	71	53
San Juan, Puerto Rico	T.			26	49	74	87	92	93	90	92	84	76	55	37			255.7	344.1	74	67
Santiago de Cuba, Cuba *	T.			84	87	77	82	82	83	78	76	60	50	55	44			246.5	340.9	72	52
Santo Domingo, Santo Domingo	T.																				
Willemstad, Curaçao	T.			28	34	46	60	56	57	52	54	51	42	34	35			164.8	355.3	46	38

* Incomplete.

TABLE IX.—*Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.75 in 1 hour during December, 1899, at all stations furnished with self-registering gages.*

Stations.	Date.	Total duration.		Total am't of precipitation.	Excessive rate.		Amount before excessive began.	Depths of precipitation (in inches) during periods of time as indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
	1	2	3	4	5	6	7														
Albany, N. Y.	3-4			0.52														*			
Atlanta, Ga.	23			1.77														0.57			
Atlantic City, N. J.	24			0.61														*			
Baltimore, Md.	12			0.40														0.26			
Binghamton, N. Y.	12			0.90														0.40			
Bismarck, N. Dak.	25			0.20														*			
Boise, Idaho	10-11			0.25														0.10			
Boston, Mass.	15			0.88														0.31			
Buffalo, N. Y	11			0.52														0.15			
Cairo, Ill.	10-11			1.85														0.42			
Charleston, S. C.	12			0.22														0.14			
Chicago, Ill.	11			1.30														0.18			
Cincinnati, Ohio	10-11			0.97														0.26			
Cleveland, Ohio	2-3			0.67														0.08			
Columbia, Mo.	10-11			0.33														0.13			
Columbus, Ohio	10-11			0.78														0.29			
Denver, Colo.	9-10			0.36														*			
Des Moines, Iowa	10-11			1.05														0.11			
Detroit, Mich.	11-12			0.71														0.44			
Dodge, Kans	13			0.46														*			
Duluth, Minn.	9			0.67														*			
Eastport, Me.	15			0.60														0.21			
Elkins, W. Va.	12			0.77														0.37			
Erie, Pa.	10-11			0.96														*			
Escanaba, Mich.	11-12			0.65														0.14			
Evansville, Ind	10-11			1.28														0.22			
Fort Worth, Tex.	8			0.57														0.10			
Fresno, Cal.	5			0.36														0.09			
Galveston, Tex.	10	2.16 p.m.	3.45 p.m.	1.06	2.41 p.m.	3.05 p.m.	0.01	0.25	0.39	0.62	0.96	1.03									
Grand Junction, Colo.	8-9			0.24														*			
Hannibal, Mo.	10-11			0.36														*			
Harrisburg, Pa	23-24			1.06														0.24			
Hatteras, N. C.	24	1.50 a.m.	4.00 a.m.	1.28	2.05 a.m.	3.00 a.m.	0.05	0.09	0.16	0.32	0.38	0.48	0.52	0.54	0.57	0.60	0.63	0.73			
Huron, S. Dak.	25			0.11														*			
Indianapolis, Ind.	10-11			0.99														0.18			
Jacksonville, Fla.	14	4.40 p.m.	8.09 p.m.	1.06	4.42 p.m.	5.07 p.m.	T.	0.02	0.30	0.47	0.58	0.67									
Jupiter, Fla.	21	6.30 p.m.	10.30 p.m.	1.06	7.00 p.m.	7.30 p.m.	0.21	0.26	0.33	0.34	0.44	0.63	0.77	0.78	0.80						
Kalispell, Mont	11			0.61														*			
Kansas City, Mo.	9			0.50														0.07			
Key West, Fla.	6			0.54								0.40									
Knoxville, Tenn	23			0.94														0.20			
Lexington, Ky.	11			0.40														*			
Lincoln, Nebr.	8-11			1.05														0.09			
Little Rock, Ark.	10	9.46 a.m.	D. N.	2.36	9.05 p.m.	9.50 p.m.	1.43	0.05	0.18	0.27	0.35	0.42	0.52	0.65	0.71	0.76	0.79	0.83			
Los Angeles, Cal.	16			0.84														0.14			
Louisville, Ky.	10-11			1.84														0.28			
Macon, Ga.	23			1.32														0.50			
Memphis, Tenn.	18-19			1.83														0.32			
Meridian, Miss.	10-11	8.15 p.m.	11.40 a.m.	3.00	2.30 a.m.	3.20 a.m.	1.65	0.13	0.25	0.55	0.72	0.77	0.82	0.93	0.95	0.95	1.10	1.14			
Milwaukee, Wis.	10-11			1.23														0.16			
Montgomery, Ala	11			1.70														0.47			
Nantucket, Mass.	15			0.38														0.27			
Nashville, Tenn.	10-11			2.56														0.59			
New Orleans, La.	10-11			0.88														0.23			
New York, N. Y.	24			0.77														0.20			
Norfolk, Va.	12			0.40														0.31			
Northfield, Vt.	12			0.48														0.15			
Oklahoma, Okla.	8-9			0.69														0.09			
Omaha, Nebr.	8-9			0.98														0.08			
Parkersburg, W. Va.	11-12			0.71														0.22			
Philadelphia, Pa.	12			0.40														0.18			
Pittsburg, Pa.	12			0.71														0.19			
Pocatello, Idaho	15-16			0.38														*			
Portland, Me.	24-25			0.81														0.40			
Portland, Oreg.	10-11			0.77														0.14			
Raleigh, N. C.	23-24			1.09														0.38			
Richmond, Va.	23-24			0.98														0.30			
Rochester, N. Y.	24			1.13														0.21			
St. Louis, Mo.	13-14			0.40														*			
St. Paul, Minn.	8-10			1.20														0.12			
Salt Lake City, Utah	5-6			0.24														*			
San Diego, Cal.	16-17			0.54														0.25			
San Francisco, Cal.	29-30			0.66														0.29			
Savannah, Ga.	10			0.61														*			
Seattle, Wash.	19-21			1.01														0.14			
Spokane, Wash.	10-11			0.57														*			
Tampa, Fla.	11-12			1.12														*			
Vicksburg	10-11	8.45 a.m.	6.30 a.m.	5.56	6.00 p.m.	7.00 p.m.	1.83	0.06	0.19	0.34	0.48	0.66	0.81	0.98	1.24	1.34	1.47	1.95	2.06	2.19	2.39
Washington, D. C.	12			0.46														0.36			
Wilmington, N. C.	23-24			0.90														0.27			
Yankton, S. Dak	8-9			0.72														0.12			
Bridgetown, Barbados	6	1.10 p.m.	2.50 p.m.	0.96	1.20 p.m.	2.15 p.m.	0.03	0.09	0.26	0.43	0.53	0.61	0.68	0.71	0.72	0.72	0.91				
Cienfuegos, Cuba	24			0.18											0.18						
Havana, Cuba	24			0.72							0.46										
Port of Spain, Trin.	1	12.20 p.m.	3.20 p.m.	2.42	12.20 p.m.	1.15 p.m.	0.00	0.21	0.36	0.72	0.99	1.36	1.68	1.84	1.95	2.00	2.06	2.16	2.25	2.37	
Do	23	11.50 a.m.	1.30 p.m.	1.26	12.08 p.m.	12.50 p.m.	0.01	0.21	0.43	0.80	1.01	1.12	1.15	1.17	1.20	1.23	1.24				
Puerto Principe, Cuba	1			1.36														0.38			
Rosseau, Dom., W. I.	11-12			0.40														0.32			
San Juan, Puerto Rico.	18			0.31						0.29											
Santiago de Cuba	29			0.44														0.43			
Willemstad, Curaçao.	19			0.64											0.64						

* Self-register not working.

TABLE X.—*Excessive precipitation, by stations, for December*, 1899.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
Alabama.	*Inches.*	*Inches.*		*Ins.*	*h.m.*	
Ashville		2.63	11			
Bermuda		2.70	11			
Birmingham		3.41	11			
Citronelle		2.91	10-11			
Clanton		3.00	11			
Decatur		3.22	10-11			
Eufaula		2.70	11-12			
Eutaw		3.30	10-11			
Evergreen		2.70	10-11			
Florence		3.52	10-11			
Fort Deposit		2.70	11-12			
Jasper		3.02	11			
Madison		3.30	11			
Marion		4.20	10-11			
Mobile		2.92	10-11	2.00	2 00	11
Mount Willing		2.67	11			
Newburg		4.60	10-11			
Riverton		3.73	10-11			
Talladega		3.15	11			
Tuscaloosa		3.73	10-11			
Tuskegee		2.56	11			
Union Springs		2.50	10-11			
Uniontown		3.29	10			
Arkansas						
Camden		3.30	9-10			
Lonoke		3.17	9-10			
California.						
Anada	15.28	3.40	14			
Bear Valley	12.81	2.88	15			
Bowman	15.72	3.20	12			
Do		2.78	15			
Do		2.50	29-30			
Cahto	13.98					
Crescent City	11.28					
Edmanton	11.89	4.88	14-15			
Fort Ross		3.35	30			
Georgetown	11.91	3.20	12			
Grass Valley	11.35					
Jackson		2.50	12			
Kennedy Goldmine		2.75	12			
Laporte	16.23	3.36	15			
Do		3.31	30			
Malakoff Mine	13.09	2.70	12			
Do		2.71	30			
Nevada City	10.27					
North San Juan	12.41	3.42	12			
Oleta		2.63	12			
Peachland		2.61	30			
Pilot Creek	12.56	3.06	12			
Do		2.91	14			
San Luis Obispo		2.56	14-15			
Summerdale	13.63	5.63	15			
Do		2.95	30			
Upper Lake		3.08	31			
Upper Mattole	17.84	8.74	30-31			
Florida.						
Pensacola		2.63	10-11			
Indiana.						
Bloomington		2.61	11-12			
Vevay		2.50	10-11			
Iowa.						
Monticello		3.95	11-12			
Ridgeway		3.50	11			
Louisiana.						
Alexandria		4.90	11			
Clinton		2.70	10			
Como		4.27	10			
Grand Coteau		2.77	8			
Do		3.10	10			
Jeanerette		2.60	19-20			
Jennings		3.38	10			
Do		2.62	20			
L'Argent		6.45	10			
Melville		5.25	9-10			
Montgomery		2.70	10			
Oakridge		3.49	10-11			
Rayne	10.87	2.98	9			
Do		3.18	11			
White Sulphur Springs		4.67	10			
Minnesota.						
Caledonia		3.83	11-12			

TABLE X.—*Excessive precipitation*—Continued.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
Mississippi.	*Inches.*	*Inches.*		*Ins.*	*h.m.*	
Batesville		2.85	11			
Booneville		2.60	10			
Canton		5.40	10-11			
Columbus		3.50	11			
Crystal Springs		5.10	10			
Edwards	10.70	6.18	10-11			
Fayette		6.20	11			
Greenwood		3.16	10			
Holly Springs		3.80	11			
Louisville		5.46	10			
Meridian		3.23	10-11	1.12	0 56	11
Natchez		4.00	10-11			
Palo Alto		3.06	11			
Port Gibson	11.42	7.87	11			
Thornton		2.70	10			
Vicksburg		5.56	10-11	1.88	0 55	10
Water Valley		3.21	10			
Woodville	11.39	7.51	10-11			
North Carolina.						
Flat Rock		4.82	11-12			
Hendersonville		4.14	11-12			
Highlands	10.55	6.93	9-11			
Horse Cove		4.70	10-11			
Linnville		5.24	11-12			
Oregon.						
Alpha	13.68					
Astoria	13.30					
Bandon	10.87					
Bay City	14.38					
Cascade Locks	11.83					
Coquille	13.58	2.92	31			
Fairview	14.24					
Falls City	10.79					
Gardiner	14.45					
Glenora	18.48	3.32	1			
Government Camp	10.10					
Kerby	13.70	2.56	15			
Langlois	18.15					
Nehalem	11.60					
Newport	11.67					
Tennessee.						
Ashwood		3.28	11			
Erasmus		2.76	11			
Hohenwald		3.18	11			
Iron City	12.03	5.10	10			
Lafayette		3.00	11			
Lewisburg		3.28	10-11			
Lynnville		3.53	11			
Nashville		2.70	10-11			
Nunnelly		4.34	10-11			
Tracy City		3.30	11			
Tullahoma		3.50	10-11			
Waynesboro		3.40	10-11			
Yukon		3.70	10-11			
Texas.						
Alvin		2.77	8			
Blanco		2.75	7			
Brazoria		3.30	8			
Danevang		3.67	8			
Hulen		2.70	8			
Rockisland		4.10	7-8			
Virginia.						
Hot Springs		2.50	11			
Washington.						
Aberdeen	10.13					
Cedarlake	13.78					
Clearwater	22.16	3.06	22			
Fort Canby		2.67	*			
Monte Cristo	15.07	5.38	21-22			
Southbend	10.38					
Union City	11.54					
Puerto Rico.						
Humacao		2.80	3			
West Indies.						
Port of Spain, Trinidad				1.93	0 40	1
Do				1.01	0 19	22

* November 30 to December 1.

TABLE XI.—*Data furnished by the Canadian Meteorological Service, December*, 1899.

Stations.	Pressure.			Temperature.				Precipitation.		
	Mean not reduced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Mean maximum.	Mean minimum.	Total.	Departure from normal.	Depth of snow.
	Ins.	*Ins.*	*Ins.*	°	°	°	°	*Ins.*	*Ins.*	*Ins.*
St. Johns, N. F.	29.84	29.99	+.14	32.0	+ 3.3	37.5	26.5	6.58	.....	1.7
Sydney, C. B. I.	29.98	30.02	+.14	33.1	+ 4.9	39.7	26.6	7.60	+2.88	12.0
Halifax, N. S.	29.93	30.04	+.09	33.0	+ 5.4	40.6	25.3	5.04	—0.25	18.8
Grand Manan, N. B.	29.98	30.03	+.04	32.2	+ 3.9	38.8	25.5	4.91	+0.24	20.3
Yarmouth, N. S.	29.96	30.04	+.06	33.2	+ 2.5	40.1	26.2	4.08	—1.19	15.1
Charlottet'n, P. E. I.	29.96	30.00	+.08	29.8	+ 5.5	36.5	23.2	2.29	—1.71	6.8
Chatham, N. B.	29.99	30.01	+.07	21.5	+ 4.5	30.6	12.4	3.36	+0.39	15.9
Father Point, Que.	29.95	29.98	+.02	20.7	+ 4.3	28.9	12.5	4.45	+2.23	32.8
Quebec, Que.	29.66	30.02	+.01	21.6	+ 5.4	27.3	16.0	4.09	—0.22	12.6
Montreal, Que.	29.77	29.99	—.04	24.1	+ 5.8	30.8	17.5	4.84	+1.28	24.9
Bissett, Ont.	29.33	29.98	—.05	19.3	+ 4.1	28.3	10.3	3.05	+0.31	14.2
Ottawa, Ont.	29.62	29.96	.....	22.2	+ 5.2	28.7	15.6	3.24	.....	10.0
Kingston, Ont.	29.66	30.00	—.05	27.4	+ 3.7	34.3	20.4	5.77	+2.13	23.1
Toronto, Ont.	29.60	30.00	—.06	29.1	+ 2.1	35.2	23.0	2.50	—0.04	3.2
White River, Ont.	28.54	30.00	—.06	6.4	— 3.3	17.8	— 5.0	2.08	+0.64	20.8
Port Stanley, Ont.	29.35	30.02	—.04	28.6	+ 0.2	34.7	22.6	2.73	+0.12	5.1
Saugeen, Ont.	29.21	29.96	—.06	27.8	+ 1.1	33.8	21.7	4.09	—0.04	26.8
Parry Sound, Ont.	29.22	29.96	—.07	22.8	+ 1.6	31.0	14.7	8.31	+4.38	53.0
Port Arthur, Ont.	29.22	29.97	—.06	14.3	+ 1.1	23.4	5.2	1.25	+0.40	4.7
Winnipeg, Man.	29.21	30.10	—.01	9.7	+ 5.6	18.6	0.8	0.11	—1.08	1.1
Minnedosa, Man.	28.19	30.13	+.02	10.4	+ 4.7	20.1	0.7	0.18	—0.55	1.8
Qu'Appelle, Assin.	27.73	30.15	+.02	8.9	+ 1.5	16.9	1.0	0.82	+0.18	8.2
Medicine Hat, Assin.	27.70	30.10	—.01	22.0	+ 3.8	30.3	13.7	0.91	+0.55	6.1
Swift Current, Assin.	27.43	30.16	+.03	16.8	+ 0.8	24.4	9.2	0.33	—0.38	3.3
Calgary, Alberta	26.35	30.04	—.09	19.2	+ 1.0	27.5	10.9	0.44	—0.34	4.2
Banff, Alberta	25.27	30.10	.....	19.9	.....	25.8	13.9	1.97	.....	16.1
Edmonton, Alberta	27.63	30.07	+.06	14.4	+ 1.3	23.0	5.8	0.78	+0.38	7.8
Prince Albert, Sask.	28.45	30.12	.....	4.9	+ 2.1	14.2	— 4.4	0.81	.....	8.1
Battleford, Sask.	28.30	30.17	.....	8.4	+ 3.0	16.5	0.4	0.57	.....	5.7
Kamloops, B. C.	28.80	30.12	.....	32.0	.....	36.8	27.2	0.66	.....	0.2
Victoria, B. C.	29.92	30.02	.....	43.0	.....	46.8	39.2	5.28	.....	2.5
Barkerville, N. W. T.	25.50	29.96	.....	21.8	.....	28.4	15.1	2.36	.....	22.0
Hamilton, Bermuda.	29.89	30.05	—.04	63.4	— 1.3	67.7	59.2	4.69	.....	

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