On Tuesday night between 2 and 4 a. m., that is to say, Wednesday, June 23, many people were awakened about 2 a. m. by the extraordinary heat of the air, it being so intense that many thought their houses to be on fire; those who noticed the direction in which the hot wave was moving say it came from the southwest to the northeast and then came back from the northeast to the southwest. A pleasant cool breeze from the north had been blowing up to 1 a. m. that night and it commenced again to blow about 5 a. m.

The 8 a. m. weather map of the 23d shows mostly southerly winds, clear sky, and falling barometer in Kansas; so that a local northerly wind at Larned would imply a local topsy-turvy movement such as would characterize a streak of hot winds extending from Kinsley to Larned.

BRIGHT METEOR.

A bright meteor passed over Augusta, Kans., on June 20, about 10:45 p. m. (probably central time) traveling due west. Two or three minutes after passing over there was a loud explosion like a heavy clap of thunder. The color of the meteor was bright blue.

In addition to the preceding report received directly from the postmaster at Augusta (long. 96° 57′ W., lat. 37° 40′ N.) there have been received newspaper reports from other stations, as follows:

Eldorado, Kans. (N. 37° 44′, W. 97° 50′)—Path from west to east; principal meteor followed by a number of smaller lights; heavy explosive noise from two to four minutes after the meteor disappeared.

Wichita, Kans. (N. 37° 40′, W. 97° 20′)—Appeared at 10:50 in the southeast at an altitude of about 60°; path toward the northwest where it disappeared on the horizon like a bright glowing coal, passing near the zenith; two minutes afterwards there was a sharp heavy report that died away in a low rumbling sound. Persons living 17 miles to the northwest (lat. 37° 50′, long. 97° 33′) saw it fall.

Winfield, Kans. (N. 37° 15′, W. 96° 58)—Brilliant meteor athwart the sky about 11 p. m., followed by a rumbling noise.

Hutchinson, Kans. (N. 38° 3′, W. 97° 56′)—Meteor of great brilliancy at 10.45. Apparent path from east to west.

Emporia, Kans. (N. 38° 53′, W. 96° 8′)—Enormous meteor passed over the city about 11 p. m., disappearing in the southwest.

Ardmore, Ind. T. (N. 34°, 10°, W. 97°, 5′)—Just before 11 p. m. a large meteor appeared in the northeast and apparently struck the earth in the northwest; it appeared as large as the moon and gave a light almost equal to that of day.

From these few reports, elementary as they are, we can only conclude that the meteor must have been moving nearly east and west when first seen. It must have been at least 5 miles above the surface of the earth since it was visible from Ardmore, which is about 210 miles south of the vertical plane through its path. But the record at Ardmore shows that it appeared to pass from northeast to northwest, and, if this is strictly true then its path must have been from the northeast toward Kansas, where it turned westward and eventually northwestward and its height above the ground, when passing over the stations in Kansas, must have been at least 30 or 40 miles. If numerous other and more accurate observations can be secured, it will be worth while for those interested in meteors to compute more accurately the path of this body. In general, of course, we know that a myriad of such masses, large and small, are moving swiftly through the space between the earth and the surrounding stars, and we see only those that for a few seconds pass into our own atmosphere. To the meteorologist these objects have considerable interest, as they reveal the presence of a considerable quantity of air at the height of 50 miles above the earth, where the barometric pressure would be less than 0.001 of an inch, and would, therefore, be called inappreciable in our ordinary terrestrial meteorology. Notwithstanding the thinness of the atmosphere at this elevation, we see that an immense noise can be produced in it and propagated through it. The violence of the atmospheric concussion is, in fact, inconceivable; if we try to reproduce it by the mechanical production of sound inside of a vessel from which the air has been exhausted, we shall find it impossible to do so. The intensity of a sound as it passes from a lighter to a denser medium experiences an apparent diminution. As our lower atmosphere is more than thirty thousand times as dense as that in which the meteor made its tremendous noise, so the latter must have been thirty thousand times as intense as the noise of the explosion heard by the observers in Kansas.

METEOROLOGICAL TABLES.

By A. J. HENRY, Chief of Division of Records and Meteorological Data.

For text descriptive of tables and charts see page 166 of REVIEW for April, 1897.

TABLE I.—*Climatological data for Weather Bureau Stations, June, 1897.*

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.
New England.							60.1	− 2.5											3.11	+ 0.2											
Eastport	76	69	74	29.81	29.90	− .03	53.2	− 2.1	70	26	60	43	8	46	22	49	46	82	3.32	− 0.2	14	6,173	s.	44	e.	5	5	14	11	6.8	
Portland, Me.	103	81	89	29.79	29.89	− .05	58.2	− 4.1	83	25	66	44	8	51	26	53	48	75	4.97	+ 1.6	13	4,905	nw.	27	nw.	26	7	6	17	6.7	
Northfield	872	15	59	28.99	29.93	− .01	57.4	− 3.7	86	25	69	36	21	46	35	54	49	72	3.77	+ 0.2	10	5,994	n.	32	n.	16	2	16	12	6.9	
Boston	125	115	181	29.79	29.93	− .03	62.3	− 3.6	87	25	71	47	2	54	26	56	51	71	4.46	+ 1.4	11	7,990	w.	30	sw.	3	10	7	13	5.7	
Nantucket	14	43	54	29.94	29.95	− .05	60.0	− 0.6	76	26	65	50	*	55	17	57	55	88	1.64	− 1.2	9	7,907	sw.	37	ne.	10	10	4	16	6.5	
Woods Hole	.....	51	57	.....	.....	.....	60.2	− 2.3	78	16	65	49	8	56	16	....	....	....	2.05	− 0.5	6	10,232	sw.	38	w.	1	14	8	8	4.6	
Vineyard Haven	.....	20	....	.....	.....	.....	63.0	− 3.1	80	19	71	50	8	55	25	...	....	...	2.83	+ 0.6	9	.....	n.	....	.....	...	12	10	8	....	
Block Island	27	39	48	29.92	29.95	− .04	60.7	− 0.9	78	30	66	49	2	55	16	56	54	83	3.06	+ 0.5	7	10,467	sw.	38	ne.	10	10	14	6	5.1	
Narragansett Pier	.....	10	....	.....	.....	.....	61.8	− 2.8	85	30	70	43	1	53	29	....	....	....	2.56	0.0	10	.....	sw.	....	.....	...	19	4	7	....	
New Haven	107	118	140	29.83	29.94	− .05	63.9	− 1.4	88	25	73	44	2	55	28	58	53	71	2.47	− 0.5	10	6,101	sw.	35	nw.	1	13	6	11	5.2	
Mid. Atlan. States.							69.2	− 1.7											2.84	− 0.9											
Albany	97	84	113	29.84	29.95	.00	64.6	− 3.2	85	25	74	48	2	55	30	58	53	71	4.45	+ 0.8	12	5,604	s.	26	s.	3	11	11	8	5.5	
Binghamton	875	79	90	.....	.....	.....	60.9	.....	85	24	72	40	28	50	37	....	....	....	2.93	.....	14	4,185	nw.	24	n.	15	13	8	9	5.1	
New York	314	298	326	29.63	29.96	− .03	65.2	− 3.1	86	25	73	48	1	58	21	58	53	68	2.98	− 0.2	9	9,079	nw.	53	nw.	1	9	12	9	5.5	
Harrisburg	377	94	102	29.58	29.98	− .03	67.2	− 3.3	91	30	76	47	2	58	25	60	54	66	1.83	− 2.4	11	4,490	w.	30	w.	15	7	12	11	6.1	
Philadelphia	117	168	184	29.85	29.97	− .03	68.9	− 2.9	91	30	78	49	2	60	26	60	55	66	4.53	+ 1.4	11	7,253	nw.	38	nw.	1	4	15	11	6.1	
Atlantic City	52	68	76	29.92	29.97	− .02	65.6	− 1.0	92	30	72	48	2	59	24	62	60	84	2.62	− 0.6	12	7,478	sw.	39	n.	15	7	17	6	5.4	
Baltimore	123	68	82	29.84	29.97	− .03	70.1	− 2.2	95	30	79	48	2	61	25	62	56	66	2.57	− 1.4	12	3,439	nw.	22	w.	1	7	16	7	5.5	
Washington	112	59	76	29.87	29.99	− .02	69.6	− 1.9	93	30	79	43	2	60	31	64	60	75	2.60	− 1.4	11	4,592	nw.	25	nw.	4	9	10	11	5.4	
Cape Henry	.....	5	34	.....	.....	.....	73.3	+ 0.8	96	30	80	60	*	66	27	...	....	....	2.00	− 1.9	11	.....	se.	....	.....	...	4	10	16	....	
Lynchburg	685	83	88	29.27	29.99	− .03	73.1	− 1.1	96	16	83	49	2	63	32	65	61	70	2.70	− 0.8	16	2,694	ne.	27	nw.	19	10	12	8	5.2	
Norfolk	57	88	93	29.94	30.00	− .02	74.2	+ 0.7	96	*	82	58	2	66	25	67	64	75	1.98	− 2.2	13	5,350	se.	46	nw.	20	7	9	14	6.0	
S. Atlantic States.							78.5	+ 1.6											4.30	− 0.3											
Charlotte	773	67	76	29.19	29.99	− .04	76.6	+ 0.8	96	30	87	60	2	66	28	68	64	72	3.63	− 1.0	12	4,143	e.	32	w.	4	12	15	3	4.5	
Hatteras	11	17	36	30.00	30.01	− .02	74.4	+ 0.9	85	26	79	63	22	70	14	70	68	82	5.76	+ 1.2	13	7,905	sw.	34	nw.	24	13	13	4	4.4	
Kittyhawk	9	12	30	29.97	29.98	− .03	72.6	− 1.0	94	30	79	59	14	66	27	69	67	83	3.90	− 0.7	9	9,288	ne.	48	ne.	13	13	10	7	4.0	
Raleigh	375	93	101	29.62	30.01	− .02	76.6	+ 1.8	96	30	86	58	2	68	26	68	64	69	3.44	− 2.0	15	4,234	sw.	23	w.	4	8	17	5	5.4	
Wilmington	78	82	88	29.93	30.01	− .02	78.0	+ 1.5	96	30	86	64	*	70	23	71	69	80	3.88	− 1.8	10	5,521	w.	28	w.	12	13	15	2	3.8	
Charleston	48	60	72	29.99	30.04	.00	80.4	+ 1.6	96	25	87	68	9	74	23	73	71	78	5.47	− 0.2	14	6,902	sw.	44	nw.	25	4	23	3	5.0	
Columbia	.....	5	....	.....	.....	.....	79.8	+ 1.7	100	30	91	57	9	68	29	....	....	....	4.43	+ 0.3	14	.....	e.	....	.....	...	6	18	6	....	
Augusta	180	89	103	29.81	30.00	− .01	81.4	+ 2.6	100	30	93	62	8	71	27	73	70	77	3.56	− 1.0	12	3,924	s.	38	nw.	19	11	12	7	5.0	
Savannah	98	63	86	29.92	30.02	− .02	81.8	+ 3.0	100	15	93	61	8	72	32	74	72	77	3.94	− 2.7	15	5,147	sw.	40	nw.	8	11	10	9	5.2	
Jacksonville	43	69	84	29.98	30.03	− .01	83.4	+ 3.4	99	28	94	68	20	73	27	75	73	79	5.01	− 0.4	12	5,198	sw.	36	nw.	20	11	16	3	4.5	
Florida Peninsula.							81.4	+ 0.5											5.03	− 1.0											
Jupiter	28	13	30	30.03	30.06	+ .01	81.0	+ 1.2	93	21	86	71	*	76	22	76	74	82	4.67	− 2.0	9	5,017	s.	32	w.	21	3	18	9	6.5	
Key West	22	42	50	30.05	30.07	+ .03	82.2	− 0.6	90	25	86	70	8	79	13	76	73	75	2.10	− 1.9	8	4,259	se.	22	n.	8	7	16	7	5.3	
Tampa	36	60	68	30.02	30.06	+ .02	81.0	+ 0.8	94	19	90	68	10	72	22	75	73	78	8.46	+ 0.9	15	4,046	se.	26	se.	29	13	15	2	3.6	
East Gulf States.							81.1	+ 2.1											2.96	− 2.1											
Atlanta	1,131	92	126	28.86	30.02	− .03	78.6	+ 2.9	97	30	89	58	1	68	30	68	63	64	2.07	− 2.2	11	5,638	nw.	36	sw.	30	11	16	3	4.7	
Pensacola	56	78	90	29.96	30.02	− .01	81.0	+ 1.5	98	21	87	69	6	75	22	75	72	74	2.03	− 3.3	5	6,448	sw.	34	n.	26	14	13	3	4.2	
Mobile	57	88	96	29.97	30.03	+ .01	80.8	+ 1.3	98	19	89	65	9	72	25	74	71	76	4.09	− 1.8	11	4,930	nw.	40	ne.	26	15	10	5	4.5	
Montgomery	221	100	107	29.76	29.99	− .04	82.6	+ 3.1	100	23	94	63	7	71	30	71	67	66	3.79	− 0.9	11	4,095	w.	54	nw.	19	20	10	0	2.9	
Vicksburg	254	65	73	29.73	29.98	− .04	80.6	+ 1.3	96	22	90	63	6	72	25	71	68	71	3.93	− 0.4	7	3,542	sw.	38	nw.	3	17	11	2	3.5	
New Orleans	54	112	120	29.96	30.02	+ .02	81.8	+ 1.6	98	*	89	69	*	74	24	74	70	72	4.82	− 1.8	11	4,856	se.	24	se.	26	11	8	11	5.5	
Port Eads	.....	27	....	.....	.....	.....	82.6	+ 2.7	94	20	88	72	5	78	17	....	....	....	0.00	− 4.2	0	.....	e.	....	.....	...	4	25	1	....	
West Gulf States.							80.1	+ 0.6											2.66	− 1.2											
Shreveport	249	77	84	29.73	29.98	− .01	80.4	− 0.4	99	21	90	61	8	71	23	72	69	73	3.03	− 0.8	8	4,484	s.	29	sw.	28	17	5	8	3.9	
Fort Smith	481	63	72	29.44	29.94	− .01	78.0	+ 1.2	96	22	88	55	4	68	28	71	67	71	3.98	− 0.4	8	4,393	e.	44	s.	23	19	4	7	3.9	
Little Rock	302	71	79	29.68	29.99	+ .01	78.9	+ 1.4	100	22	89	56	5	69	28	70	65	67	3.06	− 1.3	8	4,438	sw.	46	nw.	3	10	17	3	4.6	
Corpus Christi	20	42	50	29.95	29.97	− .01	80.6	0.0	88	21	85	65	4	76	16	76	75	84	1.81	− 0.9	5	10,473	se.	48	n.	4	16	11	3	3.4	
Galveston	42	85	96	29.98	30.02	+ .03	81.7	0.0	96	21	86	66	3	78	18	76	74	81	0.37	− 4.5	1	8,041	s.	50	n.	3	23	7	0	2.1	
Palestine	510	54	61	29.46	30.00	+ .01	79.4	+ 0.9	98	21	89	59	8	70	27	71	69	77	4.16	− 0.1	12	4,386	se.	40	nw.	6	9	16	5	4.9	
San Antonio	704	95	104	29.21	29.94	− .01	81.4	+ 0.9	99	22	92	61	8	71	31	72	67	69	2.19	− 0.5	6	7,106	se.	50	n.	3	16	11	3	3.8	
Ohio Val. & Tenn.							73.0	− 0.2											3.14	− 1.1											
Chattanooga	762	106	112	29.23	30.02	− .02	77.4	+ 1.9	96	30	88	54	1	67	32	68	63	66	1.03	− 3.8	8	4,441	ne.	44	sw.	28	11	18	1	4.4	
Knoxville	980	80	88	29.01	30.02	− .01	75.0	+ 1.5	94	30	86	52	1	64	31	66	62	68	3.18	− 0.9	14	3,254	ne.	28	w.	19	11	13	6	4.9	
Memphis	399	140	154	29.58	29.99	.00	78.2	+ 0.7	95	23	88	57	1	68	27	69	64	64	2.50	− 2.2	9	5,704	sw.	46	nw.	3	13	15	2	4.4	
Nashville	545	128	134	29.43	29.99	.00	76.8	+ 1.5	96	14	87	51	1	66	33	66	61	61	1.82	− 2.5	9	4,298	nw.	36	nw.	19	16	13	1	3.5	
Lexington	989	75	122	28.95	29.98	.00	72.0	− 1.7	93	15	82	50	9	62	31	64	59	65	4.77	+ 0.5	12	6,815	sw.	48	sw.	18	7	16	7	5.9	
Louisville	525	114	136	29.44	29.99	.00	74.2	+ 0.2	96	30	85	51	8	64	27	65	59	65	3.50	− 0.8	12	5,348	n.	44	nw.	18	9	12	9	5.4	
Indianapolis	823	154	164	29.12	29.98	− .01	70.0	− 1.3	91	30	80	48	8	60	25	64	60	72	3.70	− 1.0	11	6,422	sw.	44	nw.	23	17	13	0	3.4	
Cincinnati	628	152	157	29.33	29.99	.00	71.8	− 0.7	94	15	81	50	8	62	28	62	56	61	1.87	− 2.5	10	4,939	w.	33	n.	18	12	15	3	4.2	
Columbus	824	87	100	29.12	29.97	− .01	69.8	0.0	96	15	81	46	9	59	34	62	58	68	2.45	− 1.1	8	4,442	w.	30	w.	13	10	14	6	5.0	
Pittsburg	842	116	126	29.10	29.98	− .01	67.9	− 2.6	88	30	77	42	2	59	37	62	57	70	2.97	− 0.5	11	3,933	nw.	30	se.	7	7	19	4	5.0	
Parkersburg	638	77	84	29.33	30.00	− .02	70.4	− 1.4	92	16	81	45	2	59	40	63	59	71	6.77	+ 2.6	14	3,533	s.	30	w.	29	5	11	14	6.6	
Lower Lake Region.							63.5	− 2.4											2.73	− 0.9											
Buffalo	768	178	206	29.14	29.96	.00	61.6	− 1.7	77	24	68	44	21	55	26	55	50	67	1.95	− 1.6	8	8,234	sw.	47	w.	3	8	16	6	5.6	
Oswego	335	76	87	29.57	29.93	− .03	59.6	− 3.2	85	24	67	42	1	52	26	54	49	71	3.56	+ 0.2	11	6,322	w.	33	w.	24	9	10	11	5.4	
Rochester	523	81	90	29.39	29.95	− .01	62.6	− 2.5	86	24	72	41	2	53	30	56	50	64	2.62	− 0.6	11	5,064	sw.	23	sw.	3	11	11	8	5.1	
Erie	714	92	102	29.22	29.98	+ .02	62.3	− 3.6	81	23	69	42	2	55	28	57	53	71	3.01	− 0.9	11	6,120	w.	28	sw.	3	10	12	8	5.2	
Cleveland	762	190	201	29.17	29.97	− .01	64.5	− 1.8	87	29	72	43	2	57	34	58	53	68	1.05	− 2.8	8	8,011	n.	34	sw.	3	4	21	5	5.7	
Sandusky	629	62	74	29.31	29.97	− .01	66.6	− 2.3	90	15	75	44	2	58	36	59	54	68	2.04	− 1.9	10	5,334	e.	25	nw.	19	6	11	13	6.3	
Toledo	674	122	127	29.26	29.96	.00	66.0	− 2.5	92	15	76	44	9	56	34	59	55	69	4.07	+ 0.6	11	6,015	w.	30	sw.	3	8	16	6	5.3	
Detroit	730	160	166	29.20	29.97	+ .01	64.6	− 2.0	89	29	73	41	9	56	26	57	52	67	3.52	− 0.2	8	5,824	sw.	29	sw.	3	16	10	4	4.2	
Upper Lake Region.							59.3	− 2.1											3.44	− 0.3											
Alpena	609	61	65	29.29	29.94	.00	57.4	− 1.6	79	22	66	37	9	49	29	52	48	74	1.62	− 2.1	13	5,717	se.	26	e.	2	9	15	6	5.4	
Grand Haven	628	55	64	29.28	29.95	.00	62.0	− 0.6	84	14	71	37	1	53	29	56	51	71	2.61	− 1.3	10	6,013	sw.	25	ne.	18	9	13	8	5.4	
Marquette	734	67	95	29.13	29.92	− .02	54.6	− 3.0	81	14	68	31	5	46	30	50	46	74	3.64	+ 0.1	16	5,143	n.	34	s.	10	5	12	13	6.4	
Port Huron	639	70	108	29.30	29.99	+ .03	61.6	− 1.5	87	29	71	40	21	52	32	56	52	74	2.70	− 0.8	10	6,251	n.	36	sw.	6	13	12	5	4.3	
Sault Ste. Marie	634	58	65	29.27	29.94	+ .01	53.8	− 6.0	81	15	64	32	7	44	36	49	44	73	2.57	− 0.5	13	5,754	nw.	35	nw.	20	13	10	7	4.7	
Chicago	824	241	274	29.10	29.97	+ .02	65.1	− 1.2	93	15	73	44	1	57	27	58	54	72	3.60	− 0.2	14	10,844	ne.	55	s.	2	10	15	5	5.3	
Milwaukee	671	106	149	29.25	29.96	.00	62.8	+ 0.1	90	15	72	40	5	54	31	56	52	72	3.21	− 0.9	12	5,931	e.	36	w.	23	6	8	16	6.6	
Greenbay	617	49	57	29.29	29.95	.00	62.6	− 1.9	92	14	72	34	1	53	34	56	51	72	7.56	+ 4.3	11	5,006	se.	36	w.	22	9	14	7	5.5	
Duluth	702	95	106	29.16	29.92	.00	54.2	− 3.6	87	12	63	33	6	46	38	49	45	75	3.48	− 1.1	13	6,365	ne.	38	ne.	2	5	16	9	6.1	
North Dakota.							62.6	− 1.7											4.52	+ 0.7											
Moorhead	935	54	60	28.88	29.87	.00	62.0	− 1.8	96	13	73	32	*	51	38	57	53	74	7.42	+ 3.1	12	7,092	se.	44	se.	27	11	10	9	5.4	
Bismarck	1,674	16	29	28.13	29.87	+ .01	62.8	− 1.8	95	13	74	33	7	52	33	56	50	67	3.44	− 0.1	12	6,731	se.	41	se.	16	11	12	7	5.1	
Williston	1,875	15	31	27.89	29.83	− .01	63.1	− 1.4	101	13	75	32	6	51	45	54	46	60	2.71	− 0.8	9	6,480	n.	40	s.	18	17	10	3	4.3	
Upper Miss. Valley.							70.0	− 0.3											5.15	+ 0.5											
Minneapolis	.....	99	...	.....	.....	.....	64.9	− 4.1	96	13	75	36	6	55	33	....	....	....	9.00	+ 5.2	13	.....	nw.	....	.....	...	5	10	15	....	
St. Paul	837	114	124	29.00	29.89	− .03	64.2	− 3.1	94	13	74	37	1	55	33	57	52	70	8.18	+ 3.8	14	4,864	se.	40	nw.	16	6	11	13	6.7	
La Crosse	.....	70	78	.....	.....	.....	66.7	− 0.9	94	17	77	33	1	57	32	....	....	....	4.75	+ 0.3	12	4,513	s.	30	ne.	18	12	10	8	5.2	
Davenport	599	71	79	29.28	29.91	− .04	70.4	+ 0.9	98	17	80	44	4	61	28	63	58	66	1.37	− 3.0	6	5,194	sw.	33	e.	17	4	12	14	6.8	
Des Moines	867	84	88	29.01	29.92	.00	70.0	− 0.3	94	17	80	41	1	61	31	63	59	70	3.15	− 2.2	11	5,671	sw.	40	sw.	15	12	10	8	5.0	
Dubuque	698	49	56	29.18	29.91	− .03	68.2	− 0.4	99	17	78	40	7	58	32	60	55	66	2.36	− 2.8	14	4,765	se.	30	nw.	23	15	6	9	4.5	
Keokuk	614	64	78	29.29	29.92	− .02	72.9	+ 2.1	98	17	83	46	4	64	28	64	60	69	5.43	+ 0.9	14	5,424	sw.	33	w.	19	8	15	7	4.9	
Cairo	359	87	93	29.60	29.98	+ .01	75.4	+ 0.9	94	17	85	56	*	66	26	68	65	72	6.87	+ 2.4	10	4,856	sw.	46	nw.	19	3	22	5	5.5	

TABLE I.—*Climatological data for Weather Bureau Stations, June, 1897*—Continued.

Stations.	Elevation of instruments.			Pressure, in inches.			Temperature of the air, in degrees Fahrenheit.									Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Precipitation, in inches.			Wind.					Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.
	Barometer above sea level, feet.	Thermometers above ground.	Anemometers 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.				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.					
Up. Miss. Val.—Con																															
Springfield, Ill	644	82	92	29.28	29.95	— .02	71.8	+ 1.0	95	17	81	46	4	62	26	64	59	69	4.11	— 0.3	14	6,473	w.	31	w.	24	7	13	10	5.8	
Hannibal	534	75	107	.....	.....	.....	73.4	.....	97	*	83	45	4	64	25	....	....	....	6.08	+ 1.3	10	6,524	sw.	34	sw.	24	9	14	7	4.6	
St. Louis	567	111	210	29.38	29.98	+ .02	75.2	+ 0.9	96	17	84	51	4	66	25	67	63	70	5.32	+ 0.2	13	6,260	s.	38	w.	25	9	10	11	5.8	
Missouri Valley.							70.9	— 0.3											4.20	— 0.2											
Columbia	.....	4	84	.....	.....	.....	73.4	— 1.5	96	17	84	42	4	62	30	....	....	....	6.59	+ 2.0	15	4,960	se.	59	nw.	24	5	14	11	6.8	
Kansas City	963	78	95	28.93	29.92	— .02	75.1	+ 1.6	97	18	84	48	4	66	32	67	63	71	7.09	+ 2.1	12	6,114	sw.	29	nw.	24	1	19	10	6.3	
Springfield, Mo	1,324	100	103	28.59	29.95	— .01	72.9	— 0.2	91	22	81	46	4	64	23	67	64	75	5.36	+ 1.1	15	6,754	se.	42	nw.	25	2	25	3	5.2	
Topeka	.....	81	....	.....	.....	.....	75.2	+ 2.5	100	9	86	45	4	65	32	....	....	....	7.82	+ 2.3	17	.....	se.	....	.....	....	3	24	3	....	
Lincoln	1,199	74	84	28.62	29.86	.....	72.0	+ 0.9	101	16	83	44	4	61	36	64	59	66	2.17	— 2.1	11	7,753	ne.	55	sw.	17	3	25	2	5.0	
Omaha	1,103	92	97	28.73	29.87	— .06	72.2	+ 0.9	98	16	82	47	4	62	32	63	58	66	1.43	— 4.2	11	6,223	se.	29	se.	1	6	17	7	5.9	
Sioux City	1,139	96	109	.....	.....	.....	68.4	— 2.4	94	22	80	42	1	57	34	....	....	....	2.13	— 1.3	15	8,685	se.	72	s.	18	10	8	12	5.9	
Pierre	1,460	50	61	28.39	29.84	— .02	67.2	— 1.1	98	12	79	39	7	56	36	58	51	61	3.11	— 0.3	14	6,802	se.	48	n.	24	9	11	10	5.7	
Huron	1,310	63	72	28.50	29.87	— .03	64.7	— 1.6	92	12	77	32	6	53	37	58	54	70	3.81	+ 0.3	14	7,753	se.	38	nw.	10	9	14	7	5.6	
Yankton	1,234	51	57	28.58	29.86	— .04	68.0	— 2.0	95	22	79	41	6	57	35	60	55	66	2.49	— 1.8	12	5,984	e.	49	s.	18	9	15	6	4.8	
Northern Slope.							62.4	— 1.2											2.59	— 0.1											
Havre	2,494	15	33	27.24	29.80	— .06	61.4	— 0.9	90	15	73	36	4	50	35	53	46	63	6.39	+ 3.4	12	6,952	ne.	48	sw.	16	9	16	5	5.2	
Miles City	2,372	41	49	27.36	29.79	— .06	67.0	0.0	101	14	79	42	4	55	40	55	46	55	1.23	— 1.8	10	5,000	w.	32	w.	5	4	19	7	5.6	
Helena	4,108	88	98	25.79	29.92	+ .02	58.8	— 2.0	89	12	68	37	10	49	35	49	40	57	3.66	+ 1.2	16	5,528	sw.	50	sw.	16	9	9	12	5.5	
Rapid City	3,251	53	61	26.55	29.84	— .04	63.2	— 0.1	90	*	74	40	*	52	37	54	45	58	2.67	— 1.2	14	5,430	se.	42	nw.	23	8	10	12	6.2	
Cheyenne	6,105	58	60	24.01	29.85	— .01	59.8	— 1.5	86	22	72	36	3	48	35	49	39	55	1.60	+ 0.1	11	7,023	nw.	48	nw.	9	13	11	6	4.9	
Lander	5,372	28	36	24.61	29.87	+ .01	60.2	— 1.6	88	13	74	35	4	46	38	48	35	48	0.85	— 0.4	5	4,180	sw.	40	sw.	17	11	12	7	5.1	
North Platte	2,826	43	52	27.01	29.88	— .01	66.6	— 2.0	94	22	78	43	4	55	35	60	56	72	1.72	— 1.7	12	7,031	se.	32	n.	28	4	21	5	5.5	
Middle Slope.							72.4	+ 0.4											3.00	— 0.2											
Denver	5,290	83	151	24.71	29.88	+ .04	65.2	— 1.4	90	15	78	40	3	52	40	52	48	54	2.16	+ 0.8	10	5,681	s.	60	se.	20	5	17	8	5.6	
Pueblo	4,713	74	81	25.22	29.84	+ .01	68.7	— 2.1	96	20	84	44	3	53	44	53	39	48	2.13	+ 0.8	7	5,316	nw.	40	nw.	1	10	13	7	4.4	
Concordia	1,398	42	47	28.40	29.84	— .07	74.2	+ 1.9	102	21	86	45	3	63	33	65	61	67	6.82	+ 2.4	16	5,774	s.	40	nw.	21	2	21	7	6.4	
Dodge City	2,504	44	52	27.30	29.82	— .04	74.0	+ 1.4	98	22	86	48	4	62	35	64	59	67	2.31	— 1.0	9	9,457	s.	67	s.	17	15	15	0	3.9	
Wichita	1,351	78	85	28.48	29.86	— .02	76.9	+ 3.4	102	24	88	44	4	66	32	67	62	67	1.99	— 3.3	11	6,641	s.	28	n.	25	9	17	4	4.8	
Oklahoma	1,218	54	53	28.65	29.90	— .02	75.4	— 1.0	94	21	84	48	4	67	27	69	66	77	2.58	— 0.6	8	9,028	s.	40	s.	1	18	10	2	3.6	
Southern Slope.							75.4	+ 0.2											3.11	— 0.2											
Abilene	1,749	47	54	28.13	29.91	— .01	78.5	+ 0.4	101	23	89	51	4	68	31	67	62	62	3.90	+ 0.6	3	8,717	se.	31	se.	25	14	10	6	4.0	
Amarillo	3,691	53	61	26.22	29.87	— .03	72.4	0.0	102	24	85	46	4	60	37	60	51	58	2.32	— 0.9	11	11,889	s.	66	w.	18	9	10	11	5.4	
Southern Plateau.							77.6	— 1.1											0.68	+ 0.3											
El Paso	3,767	10	110	26.11	29.79	— .03	80.4	— 1.5	102	24	93	58	13	68	35	58	37	30	2.17	+ 1.8	5	7,897	nw.	42	se.	11	19	7	4	2.8	
Santa Fe	6,998	47	50	23.30	29.87	— .02	64.2	— 1.1	84	24	76	40	4	52	31	48	27	34	0.57	— 0.4	8	5,245	se.	40	sw.	24	18	11	1	3.6	
Phœnix	1,076	47	57	28.62	29.72	.....	83.6	— 0.1	107	21	99	54	16	67	40	57	35	22	0.00	— 0.1	0	3,281	e.	19	w.	15	27	3	0	1.2	
Yuma	139	16	50	29.60	29.74	— .04	83.0	— 1.8	106	5	98	56	16	67	38	62	46	36	0.00	0.0	0	.....	sw.	33	nw.	15	27	3	0	0.8	
Middle Plateau.							62.1	— 1.5											0.36	— 0.3											
Carson City	4,720	82	92	25.22	29.91	.....	59.4	— 0.7	87	7	73	34	16	46	41	46	33	44	0.12	— 0.3	5	5,932	w.	40	sw.	14	14	13	3	3.6	
Winnemucca	4,340	59	70	25.60	29.89	+ .01	61.0	— 1.8	89	7	75	35	2	47	39	48	30	37	0.44	— 0.3	5	6,083	sw.	36	w.	13	9	10	11	5.5	
Salt Lake City	4,344	88	90	25.57	29.86	— .02	66.0	— 2.1	92	13	78	42	2	54	33	53	41	44	0.52	— 0.3	6	4,663	se.	31	w.	13	11	9	10	6.0	
Northern Plateau.							60.9	— 0.5											1.93	+ 0.5											
Baker City	3,470	49	47	26.38	29.93	— .01	57.4	+ 0.9	84	12	68	35	10	46	41	48	38	55	1.93	+ 0.4	10	3,996	nw.	26	s.	25	3	12	15	6.8	
Idaho Falls	4,742	10	56	25.19	29.90	+ .02	59.7	+ 0.1	89	13	75	31	2	44	45	46	32	43	0.77	— 0.4	5	8,553	s.	40	sw.	17	16	9	5	3.7	T.
Spokane	1,943	99	107	27.87	29.89	— .03	61.7	— 1.4	83	7	72	40	10	52	34	53	46	61	3.51	+ 1.8	10	5,044	sw.	36	s.	19	6	14	10	6.4	
Walla Walla	1,018	65	73	28.85	29.92	— .01	64.9	— 1.5	91	6	76	42	10	54	39	55	47	56	1.51	+ 0.1	9	4,573	s.	22	sw.	21	9	18	3	4.7	
N. Pac. Coast Reg.							58.0	+ 0.2											2.51	+ 0.1											
Fort Canby	179	10	34	29.81	30.00	.00	57.1	+ 1.3	71	20	62	47	18	52	18	53	52	86	3.98	+ 1.4	19	7,328	w.	54	s.	10	3	7	20	7.6	
Port Angeles	29	47	61	.....	.....	.....	54.6	+ 0.6	70	20	60	38	10	49	28	...	....	....	1.16	— 0.1	9	5,494	w.	32	sw.	15	4	14	12	6.6	
Pysht	.....	5	....	.....	.....	.....	57.8	.....	76	24	67	39	10	49	27	....	....	....	1.87	— 0.8	14	.....	w.	....	.....	...	5	11	14	....	
Seattle	119	100	108	29.86	29.99	.....	60.2	.....	79	25	68	46	18	52	27	54	49	71	1.67	.....	10	3,456	se.	20	sw.	11	3	11	16	6.8	
Tacoma	213	....	....	.....	.....	.....	59.0	.....	81	25	67	41	9	51	26	....	....	....	1.54	.....	9	4,311	sw.	24	sw.	15	3	11	16	7.4	
Tatoosh Island	86	12	21	29.92	30.02	+ .02	53.7	— 0.2	66	19	58	46	11	50	18	53	50	85	3.37	— 0.7	14	7,081	sw.	48	ne.	19	4	2	24	8.0	
Astoria	.....	39	60	.....	.....	.....	60.1	+ 2.1	75	26	66	49	17	54	23	....	....	....	4.49	+ 1.4	14	.....	w.	....	.....	...	4	10	16	....	
Portland, Oreg	153	203	213	29.83	29.99	— .06	61.2	— 2.1	88	5	69	41	9	53	28	54	49	69	1.35	— 0.5	11	5,140	nw.	26	sw.	10	3	21	6	5.8	
Roseburg	521	56	67	29.44	30.00	— .06	61.4	— 0.6	88	5	71	42	9	52	38	54	49	71	1.38	+ 0.1	13	2,846	nw.	26	sw.	21	5	10	15	6.8	
Mid. Pac. C'st Reg.							62.6	+ 0.3											0.71	+ 0.2											
Eureka	64	60	69	29.99	30.05	+ .01	55.8	+ 0.8	69	11	61	43	10	51	19	52	51	87	1.60	+ 0.3	10	4,851	nw.	34	nw.	8	3	22	5	5.5	
Redbluff	334	54	58	29.53	29.88	— .01	74.0	— 0.3	104	6	86	49	15	62	35	58	45	44	1.25	+ 0.8	7	5,014	n.	30	nw.	14	18	9	3	3.1	
Sacramento	71	106	117	.....	.....	.....	69.8	+ 0.8	99	30	83	50	15	57	39	....	....	....	0.04	— 0.1	1	6,391	sw.	23	sw.	13	19	9	2	2.9	
San Francisco	153	161	167	29.80	29.96	.00	58.9	— 0.9	83	4	66	48	18	52	31	54	51	82	0.22	0.0	3	9,789	w.	39	w.	10	18	7	5	3.7	
Point Reyes Light	.....	12	....	.....	.....	.....	54.3	+ 1.1	74	29	60	46	*	49	25	....	....	....	0.42	0.0	4	.....	nw.	....	.....	...	15	6	9	....	
S. Pac. Coast Reg.							67.8	— 1.3											T.	— 0.1											
Fresno	332	67	70	29.50	29.84	— .04	74.3	— 1.0	105	30	89	50	15	60	36	57	43	41	T.	— 0.1	0	5,649	nw.	26	nw.	14	26	2	2	1.7	
Los Angeles	330	74	76	29.56	29.91	— .03	65.7	— 1.4	88	4	76	50	20	55	35	58	55	77	T.	— 0.1	0	3,365	sw.	20	sw.	15	10	20	0	3.9	
San Diego	69	59	70	29.82	29.92	— .03	63.4	— 1.6	70	11	67	54	16	60	15	58	56	79	T.	— 0.1	0	4,355	sw.	20	nw.	20	17	11	2	3.9	
San Luis Obispo	201	10	46	29.74	29.96	.....	62.8	.....	96	5	76	44	*	49	45	54	49	70	T.	.....	0	3,899	w.	18	w.	16	19	9	2	2.8	

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 directions, dates, or years. † Received too late to be considered in departures, etc.

TABLE II.—*Meteorological record of voluntary and other cooperating observers, June, 1897.*

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
	°	°	°	Ins.	Ins.
Alabama.					
Alco †	102	60	82.6	0.96	
Ashville †	103	51	80.2	0.96	
Bermuda †	102	58	82.6	0.44	
Birmingham	101	56	82.0	3.63	
Brewton †	103	58	81.7	0.25	
Bridgeport †	.....	.....	.....	0.63	
Citronelle †	99	67	82.7	2.14	
Clanton †	100	55	80.8	0.37	
Cordova †	.....	.....	.....	1.17	
Daphne †	101	64	83.4	1.97	
Decatur †	104	51	78.6	1.37	
Demopolis	100	57[c]	81.8[c]	1.43	
Elba †	102	53	82.2	2.48	
Eufaula *a* †	100	52	82.4	2.42	
Evergreen †	96	60	79.6	3.30	
Florence *a* †	.....	.....	.....	0.66	
Florence *b* †	100	52	79.2	0.60	
Fort Deposit †	100	60	83.3	1.14	
Gadsden	103	51	80.4	2.59	
Goodwater †	102	53	81.2	3.18	
Greensboro †	99	59	81.0	2.23	
Hamilton	105	48	79.4	2.82	
Healing Springs †	100	56	79.8	2.50	
Highland Home †	98	63	81.9	1.57	
Livingston	103	56	82.5	0.94	
Lock No. 4	103	52	79.6	0.43	
Madison Station †	100	48	77.4	2.19	
Maple Grove	101	44	76.8	1.35	
Marion †	101	61	83.3	1.80	
Mount Willing †	102	57	82.4	1.38	
Newbern †	98	65	82.7	3.00	
Newburg	101[d]	50[d]	78.1[d]	4.42	
Newton †	100	60	82.0	0.95	
Opelika †	100	59	83.2	0.70	
Oxanna †	98	49	78.4	1.38	
Pineapple	105	58	83.4	1.09	
Pushmataha †	100	58	82.4	2.26	
Riverton †	.....	.....	.....	2.07	
Rockmills †	96	55	78.0	3.56	
Scottsboro †	103	55	79.3	1.13	
Selma †	102	60	82.9	2.31	
Talladega *[1]	95	60	83.4	1.65	
Thomasville	102	60	83.5	1.67	
Tuscaloosa †	101	59	83.4	0.89	
Tuscumbia	99	52	79.4	0.81	
Union †	103	54	81.4	2.14	
Union Springs †	103	62	84.2	3.31	
Uniontown †	101	62	83.6	1.59	
Valleyhead	97	45	77.4	2.65	
Wetumpka	102	57	83.2	0.86	
Wilsonville †	.....	.....	.....	1.95	
Alaska.					
Killisnoo	63	37	50.8	1.50	
Arizona.					
Arizona Canal Co. Dam	109	54	83.0	0.00	
Benson *[8]	102	73	82.0	0.00	
Bisbee †	96	57	76.3	0.18	
Buckeye †	106	48	79.8	0.00	
Calabasas	101	46	75.0	0.08	
Casa Grande *[8]	108	73	89.4	0.00	
Cedar Springs	.....	.....	.....	0.75	
Congress	99	52	77.0	0.04	
Dragoon Summit *[5]	100	70	84.2	0.00	
Farleys Camp †	107	58	83.2	0.00	
Flagstaff †	88	46	66.2	0.01	
Fort Apache	94	38	67.4	0.37	
Fort Defiance	.....	.....	.....	T.	
Fort Grant †	98	55	75.8	0.09	
Fort Huachuca †	98	50	75.0	0.00	
Fort Mohave	113	57	85.8	0.00	
Gilabend *a* *[8]	110	70	90.4	0.00	
Glendale	107	48	79.8	0.00	
Holbrook †	95	36	67.0	0.08	
Lochiel *[1]	96[1]	57[e]	75.2[e]	0.13	
Maricopa *[8]	110	70	90.1	0.00	
Mesa †	109	56	82.6	T.	
Mount Huachuca	100	54	76.9	T.	
Music Mountain	105	43	78.6	0.05	
Natural Bridge	.....	.....	.....	0.40	
Oracle †	99	55	77.1	0.07	
Oro	.....	.....	.....	0.24	
Oro Blanco	102	53	77.3	0.30	
Pantano *[8]	100	73	83.3	0.06	
Parker [e]	111	51	84.0	0.00	
Payson	.....	.....	.....	0.12	
Peoria †	108	56	82.8	0.00	
Phœnix	106	47	80.2	0.00	
Pinal Ranch	.....	.....	.....	T.	
Reymert †	114	57	84.3	0.54	
St. Helena Ranch	.....	.....	.....	0.32	
San Carlos †	109	46	79.5	0.03	
San Simon *[8]	96	69	80.1	0.00	
Showlow	.....	.....	.....	0.30	
Signal †	108	54	82.0	T.	
Texas Hill *[8]	112	75	91.4	0.00	
Tombstone	100	59	77.7	T.	
Arizona—Cont'd.					
Tuba	98	38	69.0	T.	
Tucson *c* †	105	50	80.1	0.00	
Walnut Grove	.....	.....	.....	0.01	
Walnut Ranch *†[1]	95	60	72.7	0.33	
Whipple Barracks †	92	32	65.3	0.56	
Willcox *[8]	100	63	83.4	0.05	
Williams	88	31	62.0	0.00	
Arkansas.					
Amity	97	53	75.6	4.65	
Arkansas City †	.....	.....	.....	0.60	
Beebranch † [1]	102	49	77.2	2.55	
Blackton	.....	.....	.....	1.50	
Blanchard Springs †	99	55	79.2	3.18	
Brinkley	101	51	78.4	1.70	
Camden *a* †	.....	.....	.....	2.54	
Camden *b* †	102	53	78.6	2.67	
Canton *[1]	100	54	75.9	.....	
Conway [h]	105	60	80.2	2.13	
Corning †	100	51	77.3	4.57	
Dallas	98	52	78.5	6.90	
Dardanelle	.....	.....	.....	4.71	
Elon †	100	55	79.8	2.85	
Fayetteville †	95	47	75.3	3.61	
Forrest	99	52	78.7	3.37	
Fulton †	.....	.....	.....	2.13	
Helena *a* †	.....	.....	.....	2.79	
Helena *b*	99	54	80.4	2.33	
Hot Springs *a*	102	52	79.2	4.43	
Hot Springs *b*	.....	.....	.....	4.18	
Hot Springs (near)	.....	.....	.....	4.50	
Jonesboro	106	41	78.4	1.92	
Keesees Ferry †	104	48	76.3	3.92	
Lacrosse †	99	48	74.7	3.48	
Lonoke *[1]	102	56	80.1	2.44	
Luna Landing *[6]	98	56	79.3	1.34	
Lutherville *[1]	103	55	80.0	.....	
Malvern †	103	53	79.0	3.24	
Marianna *[1]	101	63	81.9	.....	
Marvell	100	54	80.8	2.38	
Mossville	92	45	73.0	5.04	
Mount Nebo †	89	50	73.8	6.12	
New Gascony *[1]	97	62	81.5	1.85	
Newport *a* †	.....	.....	.....	3.27	
Newport *b* †	95	52	75.2	3.15	
Newport *c* †	97	52	77.4	3.18	
Oregon *[1]	92	50	70.4	.....	
Osceola †	96	56	78.6	2.84	
Ozark †	101	55	79.5	6.42	
Picayune †	98	60	79.8	3.52	
Pinebluff †	103	54	81.6	1.42	
Pocahontas †	95	46	77.6	4.13	
Prescott	102	56	80.8	3.22	
Rison	103	54	79.9	2.24	
Russellville	102	53	78.5	6.44	
Silver Springs †	93	41	72.9	3.99	
Stamps	102	56	81.8	4.11	
Stuttgart †	98	53	78.4	2.59	
Texarkana †	104	57	81.5	3.26	
Warren †	106	53	80.6	1.49	
Washington *†[1]	99	60	79.4	4.14	
Wiggs *[1]	98	55	79.2	4.83	
Winslow	.....	.....	.....	5.25	
Witts Springs †	94	49	73.9	3.04	
California.					
Adin	92	34	59.8	1.83	
Agnew	86	40	65.2	0.00	
Arlington Heights	100	48	69.4	0.00	
Athlone *[8]	101	52	78.4	0.00	
Azusa	.....	.....	.....	T.	
Ballast Point L. H	.....	.....	.....	0.00	
Barstow †	102	51	78.8	0.00	
Berkeley	85	49	62.4	0.30	
Bishop †	92	36	65.6	T.	
Bishop Creek *[8]	95	59	77.2	T.	
Boca *[8]	88	34	55.3	0.40	
Bodie †	79	18	49.5	0.17	1.0
Bowmans Dam *†[1]	82	37	55.4	4.04	
Caliente *[8]	100	58	77.0	0.00	
Calloway Canal *†[5]	102	58	76.4	0.00	
Campbell	95	41	63.0	0.20	
Cape Mendocino L. H	.....	.....	.....	2.27	
Castle Pinckney *[1]	77	50	63.2	0.00	
Cedarville †	88	35	58.2	1.43	
Centerville *[1]	100	57	67.8	0.29	
Chico *[8]	109	58	77.7	0.61	
Chino *†[6]	97	58	70.6	0.00	
Cisco *[8]	75	33	50.8	.....	
Claremont †	95	45	66.5	0.00	
Corning *[8]	108	55	76.1	0.60	
Craftonville	99	48	71.2	0.00	
Crescent City †	74	40	56.1	0.73	
Crescent City L. H	.....	.....	.....	0.83	
Daunt	.....	.....	.....	0.20	
Delano *[8]	102	59	77.9	0.00	
Delta *[8]	100	51	68.1	2.75	
Descanso *[5]	87	32	58.4	0.01	
California—Cont'd.					
Drytown	102	43	65.4	0.60	
Dunnigan *[8]	102	56	78.5	0.35	
Durham *[1]	98	50	67.6	0.73	
East Brother L. H	.....	.....	.....	0.40	
Edmanton *[1]	85	34	54.9	2.14	
Elsinore	103	46	73.2	0.00	
Escondido	97	40	68.8	.....	
Fallbrook *[1]	99	52	66.9	0.00	
Folsom City *b* *[1]	106	60	75.7	0.08	
Fort Bragg †	.....	.....	.....	1.04	
Fort Ross	77	45	56.2	2.27	
Georgetown	94	41	64.6	1.00	
Glendora	.....	.....	.....	0.00	
Goshen *[8]	109	56	76.6	0.00	
Grand Island *[5]	104	50	74.6	T.	
Grass Valley	.....	.....	.....	0.81	
Greenville †	92	30	58.3	1.28	
Healdsburg *[1]	94	45	65.8	1.58	
Hollister	95	40	63.6	0.14	
Humboldt L. H	.....	.....	.....	1.44	
Hydesville	80	37	58.4	0.90	
Indio *[8]	106	70	86.9	0.00	
Iowa Hill *[1]	90	43	62.9	1.32	
Jolon	.....	.....	.....	0.08	
Keeler *[8]	104	62	80.3	0.00	
Keene *[8]	95	37	67.6	0.59	
Kennedy Gold Mine	102	43	69.5	1.06	
Kernville	.....	.....	.....	0.00	
King City *[8]	100	48	65.6	0.07	
Kingsburg *[8]	100	65	73.4	0.00	
Kono Tayee	92	44	66.8	0.48	
Lagrange *[5]	110	52	75.8	0.52	
Laporte *†[1]	83	38	55.1	3.94	T.
Lemoore *a* *[8]	104	57	77.4	0.00	
Lime Kiln	107	49	77.8	.....	
Lime Point L. H	.....	.....	.....	0.45	
Lodi	101	47	70.1	0.04	
Los Alamos †	.....	.....	.....	0.00	
Lytton Springs	97	51	69.8	1.68	
McMullin *[1]	108	54	77.9	.....	
Malakoff Mine *[1]	92	47	64.2	1.45	
Mammoth Tank *[8]	110	70	92.6	0.00	
Mare Island L. H	.....	.....	.....	0.16	
Merced *[8]	103	54	76.0	0.08	
Mills College	.....	.....	.....	0.21	
Milton (near) *[1]	100	54	70.5	0.58	
Modesto *[8]	104	58	78.1	T.	
Mohave *[8]	104	54	80.0	0.00	
Mokelumne Hill *[8]	.....	51	68.2	1.02	
Monterey *[8]	72	50	61.5	0.32	
Mount Breckenridge	.....	.....	.....	0.10	
Mount Frazier	.....	.....	.....	0.00	
Mount Glenwood *[1]	104	55	76.0	0.20	
Mutah Flat †	.....	.....	.....	0.00	
Needles	110	64	80.0	0.00	
Nevada City †	91	40	62.4	0.82	
Newcastle *a* †	99	44	69.3	0.09	
Newhall *[8]	100	56	70.4	0.00	
North Ontario	92	48	67.6	0.00	
North San Juan *[1]	96	44	65.2	1.45	
Oakland *a*	92	50	63.9	0.42	
Ogilby *[8]	110	78	93.2	0.00	
Oleta *[1]	94	48	64.9	0.74	
Orangevale †	108	50	75.4	T.	
Orland *[8]	110	57	79.9	0.60	
Palermo †	110	51	74.6	0.89	
Paso Robles *b*	94	52	67.2	0.00	
Piedras Blancas L. H	.....	.....	.....	0.64	
Pigeon Point L. H	.....	.....	.....	0.38	
Pilot Creek	.....	.....	.....	2.41	
Placerville	99	41	65.8	1.09	
Point Ano Nuevo L. H	.....	.....	.....	0.19	
Point Arena L. H	.....	.....	.....	0.96	
Point Bonita L. H	.....	.....	.....	0.84	
Point Conception L. H	.....	.....	.....	0.00	
Point Fermin L. H	.....	.....	.....	0.00	
Point George L. H	.....	.....	.....	0.24	
Point Hueneme L. H	.....	.....	.....	0.00	
Point Loma L. H	.....	.....	.....	0.00	
Point Montara L. H	.....	.....	.....	1.63	
Point Pinos L. H	.....	.....	.....	0.31	
Point Reyes L. H	.....	.....	.....	0.42	
Point Sur L. H	.....	.....	.....	0.22	
Pomona (near)	100	45	69.7	0.00	
Poway *[8]	90	59	63.6	0.00	
Quincy †	90	37	59.6	1.60	
Ravenna *[8]	100	53	71.3	0.00	
Redding *b* †	100	49	72.5	1.59	
Represa	99	50	71.3	T.	
Riovista	103	50	72.2	0.05	
Roe Island L. H	.....	.....	.....	0.00	
Roseville (near) [h]	108	52	70.3	T.	
Rosewood	104	43	71.1	1.77	
Sacramento *a*	101	50	71.1	0.06	
Salinas *[8]	90	52	67.6	0.30	
Salton *[8]	118	84	98.6	0.00	

TABLE II.—*Meteorological 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.*
California—Cont'd.					
San Bernardino†	97	43	68.9	0.00	
San Jose *b*	92	40	63.2	T.	
San Leandro*[1]	90	57	64.8	0.22	
San Luis L. H	.....	.....	.....	0.00	
San Mateo*[5]	92	58	68.4	0.05	
San Miguel*[8]	99	51	69.1	0.00	
San Miguel Island	81	48	59.8	0.00	
Santa Ana*[5]	92	60	74.6	0.00	
Santa Barbara *a*	81	50	63.0	0.00	
Santa Barbara L. H	.....	.....	.....	0.00	
Santa Clara *a*	.....	.....	.....	0.00	
Santa Cruz *b*†	85	41	61.2	0.10	
Santa Cruz L. H	.....	.....	.....	0.24	
Santa Maria	90	50	65.4	0.00	
Santa Monica*[8]	80	61	70.4	0.00	
Santa Rosa*[8]	96	46	69.3	0.83	
Saticoy	.....	.....	.....	0.00	
Shasta	.....	.....	.....	2.23	
Sierra Madre	94	49	67.0	0.06	
Sneddens Ranch*†[1]	80	26	50.7	0.00	
S. E. Farallone L. H	.....	.....	.....	0.32	
Stanford University	97	45	64.6	0.05	
Stockton *a*	97	50	71.7	T.	
Summerdale†	84	31	57.0	0.63	
Susanville†	92	34	63.4	0.42	
Sutter Creek*[5]	96	40	63.6	0.66	
Tehama*[8]	106	56	76.6	0.86	
Templeton*[8]	104	51	58.1	0.00	
Trinidad L. H	.....	.....	.....	1.50	
Truckee*[8]	84	38	58.5	0.18	
Tulare *b*	.....	.....	.....	0.00	
Turlock *b*†	110	44	72.2	0.09	
Ukiah†	96	44	64.5	1.70	
Upper Lake	99	42	65.0	0.97	
Upper Mattole*[1]	88	47	59.9	1.48	
Vacaville *a**[1]	104	56	72.6	0.09	
Ventura†	79	41	59.6	0.00	
Volcano Springs*[8]	118	66	92.6	0.00	
West Palmdale	.....	.....	.....	0.00	
Westpoint†	.....	.....	.....	1.11	
Wheatland†	107	48	72.5	0.24	
Williams*[8]	104	57	77.0	0.31	
Wilmington*[5]	82	54	72.2	0.00	
Wire Bridge*[5]	99	55	74.4	0.28	
Yerba Buena L. H	.....	.....	.....	0.08	
Yreka†	96	36	61.4	1.51	
Yuba City*[5]	100	46	70.0	0.07	
Colorado.					
Alma†	71	19	44.6	1.39	T.
Antlers†	93	36	65.2	0.78	
Arkins	.....	.....	.....	2.30	
Boulder	85	41	64.6	3.71	
Boxelder	.....	.....	.....	1.59	
Breckenridge†	77	19	46.4	1.53	10.1
Canyon†	102	40	70.1	1.59	
Castlerock	89	32	65.8	3.12	
Cheyenne Wells	98	43	69.0	2.17	
Colorado Springs†	89	36	62.1	0.80	
Crook	99	41	67.5	2.24	
Delta	101	36	69.2	0.76	
Dumont†	82	30	56.8	1.71	
Durango	87	34	62.0	0.40	
Fort Collins†	90	35	62.9	1.69	
Fort Morgan	95[d]	41[d]	67.8[d]	3.28	
Fox	.....	.....	.....	2.64	
Garnett	84	28	56.0	0.24	
Gleneyrie†	84	33	60.0	1.89	
Gold Hill*[1]	88	33	58.1	5.53	T.
Grand Junction†	95	43	72.1	0.40	
Greeley†	91	39	64.8	2.47	
Grover	.....	.....	.....	0.89	
Gulch†	93	27	58.8	0.70	
Hoehne	94	39	66.5	0.95	
Holly	.....	.....	.....	0.77	
Hugo (near)	88	34	62.4	1.68	
Husted†	96	34	61.5	1.70	
La Jara	82	36	58.6	.....	
Lake Moraine†	72	25	49.4	2.75	5.0
Lamar†	108	45	73.8	2.87	
Laporte	.....	.....	.....	1.80	
Las Animas†	99	46	71.6	1.26	
Lay†	90	28	59.4	0.73	T.
Leadville (near)*†[1]	73	26	48.2	1.43	6.0
Leroy†	97	37	65.4	2.24	
Longmont†	97	38	67.0	2.26	
Longs Peak	74	26	49.6	1.50	1.0
Meeker†	95	26	60.5	1.17	
Millbrook†	84	23	56.2	2.37	
Minneapolis†	104	45	73.4	0.79	
Montrose†	94	34	65.2	0.43	
Moraine†	78	29	53.5	1.79	T.
Pagoda†	90	26	57.0	1.55	T.
Paonia†	.....	.....	.....	0.99	
Parachute†	90	36	65.0	1.05	
Pinkhamton*[1]	83	33	59.2	2.62	2.0
Rangely†	98	32	65.4	0.28	
Colorado—Cont'd.					
Redcliff	.....	.....	.....	1.40	
Rico†	83	24	52.2	0.98	
Ruby	.....	.....	.....	4.55	6.0
Saguache†	80	33	59.0	1.70	
St. Cloud	.....	.....	.....	1.51	
San Luis†	87	29	58.4	0.68	
Santa Clara*[1]	84	36	58.7	1.85	
Seibert†	.....	.....	.....	2.34	1.1
Sherwood Ranch	83	23	51.7	.....	
Smoky Hill Mine	81	28	55.2	3.80	T.
Springfield	.....	.....	.....	2.34	
Stamford*[1]	72	26	47.8	2.21	4.2
Steamboat Springs	91	25	57.8	0.85	2.0
Sulphur Springs†	87	26	54.5	2.45	1.0
Surface Creek†	94	30	63.6	1.01	
Thon†	95	32	65.4	3.15	T.
T. S. Ranch†	88	35	65.0	0.28	
Twin Lakes	.....	.....	.....	0.97	
Vilas	.....	.....	.....	0.83	
Walden	82	21	53.2	0.89	1.5
Wallet†	.....	.....	.....	3.47	
Wray†	98	38	69.0	4.79	
Yuma	.....	.....	.....	4.44	
Connecticut.					
Bridgeport	88	43	64.6	3.41	
Canton†	84	36	60.7	4.92	
Colchester	85	40	62.3	2.64	
Hartford *b*	.....	.....	.....	3.83	
Middletown	88	42	64.5	3.52	
New London†	85	44	62.0	2.48	
Norwalk	87	42	64.2	2.67	
Southington*[1]	84	48	63.8	4.55	
Storrs	83	41	60.8	2.79	
Voluntown†	85[e]	39[e]	63.0[e]	3.66	
Waterbury	86	41	63.8	3.77	
West Cornwall†	80	39	60.0	5.15	
Windsor	83	42	62.6	4.53	
Delaware.					
Milford	95	49	70.8	3.27	
Millsboro	90	40	69.1	2.45	
Newark	93	42	67.0	1.17	
Seaford†	90	44	68.6	4.84	
District of Columbia.					
Distributing Reservoir*[b]	89	54	71.7	2.09	
Receiving Reservoir*[5]	90	52	70.8	3.21	
West Washington	96	43	69.8	2.66	
Florida.					
Amelia†	96	69	81.2	3.00	
Archer†	98	64	81.8	4.17	
Bartow	97	65	82.0	7.47	
Boca Raton†	91	70	80.6	2.25	
Brooksville†	96	61	81.2	8.32	
Carrabelle†	96	71	82.9	3.60	
Clermont†	101	68	83.6	4.05	
De Funiak Springs	102	66	82.0	7.00	
Earnestville†	99	66	82.8	6.47	
Emerson†	99	58	81.4	4.06	
Eustis†	96	67	82.6	6.33	
Federal Point†	97	66	80.9	4.44	
Fort Meade†	94	65	79.6	6.02	
Frostproof†	99	66	82.4	4.89	
Gainesville	102	69	84.9	4.41	
Grasmere†	99	67	83.6	3.72	
Haywood	.....	.....	.....	3.50	
Huntington	100	65	83.2	7.06	
Kissimmee	.....	65	.....	5.44	
Lake Butler†	99	.....	.....	6.67	
Lake City†	101	71	85.2	7.42	
Lemon City†	93	72	81.8	5.30	
Macclenny†	104	61	84.0	7.53	
Merritts Island	94	70	81.9	6.84	
Milton*[1]	98	70	83.1	2.34	
Mullet Key†	93	74	84.3	2.60	
Myers†	93	68	80.6	5.80	
New Smyrna	99	66	79.5	3.81	
Oakhill*[1]	94	73	82.1	.....	
Ocala*†[1]	95	72	81.2	5.72	
Orange City	100	68	84.8	7.19	
Orange Park	99	67	82.7	3.33	
Orlando†	95	65	79.4	6.53	
Oxford*†[1]	100	73	83.0	2.62	
Plant City†	98	66	81.6	5.18	
Quincy	.....	.....	.....	4.01	
St. Francis†	98	62	80.0	4.77	
St. Francis Barracks	96	69	81.0	5.45	
Switzerland[c]	98	70	81.5	.....	
Tallahassee†	97	65	82.4	2.64	
Tarpon Springs†	91	66	80.2	3.16	
Georgia.					
Adairsville†	99	50	78.5	0.91	
Alapaha	102	64	83.7	3.99	
Albany†	103	65	84.8	3.71	
Allentown†	104	62	84.5	1.97	
Americus†	102	63	83.6	4.61	
Athens†	98	56	79.2	2.85	
Bainbridge†	103	65	85.0	1.31	
Georgia—Cont'd.					
Belleville	103[d]	67[d]	84.6[d]	6.77	
Blakely†	98	64	83.8	4.31	
Brag	101	64	81.2	7.47	
Camak†	101	61	81.4	3.60	
Canton†	.....	.....	.....	2.40	
Cartersville[d]	98	52	78.7	1.80	
Cedartown	98	56	79.3	3.14	
Clayton†	95	51	74.8	5.35	
Columbus	103	61	82.6	2.33	
Covington	102	55	79.1	2.68	
Crescent	100	67	83.9	3.10	
Dahlonega†	94	47	74.5	2.05	
Diamond	97	49	73.5	5.48	
Eastman†	100	62	81.8	2.93	
Elberton†	98	59	80.0	5.66	
Fleming†	100	61	81.0	5.76	
Fort Gaines	102	65	83.3	2.87	
Franklin	97	57	79.4	2.13	
Gainesville	94	50	76.2	3.03	
Gillsville†	99	53	79.4	2.48	
Greenbush	98	49	76.2	1.57	
Griffin†	103	60	81.0	3.65	
Hephzibah*†[6]	96	68	80.3	3.30	
Jesup	100	60	82.4	8.16	
Lagrange†	99	58	81.4	2.27	
Leverett	104	59	82.0	2.52	
Lumpkin	99	66	83.8	3.86	
Macon† *b*	102	62	81.4	6.16	
Marietta	96	53	77.3	2.63	
Marshallville†	97	65	83.0	5.87	
Milledgeville†	100	63	82.2	1.27	
Millen	103	64	83.2	3.84	
Morgan†	102[d]	62[d]	82.6[d]	1.50	
Newnan†	103	58	80.7	4.61	
Point Peter	99	54	79.2	3.91	
Poulan†	104	60	82.8	2.82	
Quitman†	104	60	84.8	5.79	
Ramsey	96	47	77.4	2.94	
Rome†	98	51	77.2	3.34	
Sparta	102	61	81.2	1.96	
Talbotton†	96[h]	55[h]	78.5[h]	4.13	
Tallapoosa	100	56	79.4	1.24	
Thomasville†	102	68	84.0	2.87	
Toccoa†	99	60	80.6	1.24	
Union Point	96	58	78.4	4.05	
Washington†	103	53	81.4	2.54	
Waycross	101	65	82.8	4.04	
Waynesboro	98	62	79.8	3.48	
Westpoint	101	60	82.1	1.76	
Idaho.					
Blackfoot†	98	34	63.5	0.62	
Boise Barracks†	101	38	64.5	0.40	
Burnside†	85	29	57.6	1.41	
Cœur d'Alene	82	36	60.0	.....	
Corral*†[1]	83	36	58.3	0.12	
Downey	91	34	58.3	0.11	
Fort Sherman†	86	34	61.2	3.26	
Gimlet†	86	26	57.5	1.14	
Idaho City	88	26	58.4	0.39	
Junction†	87	26	54.8	1.53	
Kootenai†	91	35	62.9	3.19	
Lake†	80	28	50.6	1.35	6.0
Lewiston *a*†	94	38	66.3	1.82	
Lost River†	.....	.....	.....	1.07	
Martin†	81	24	51.6	.....	
Marysville	86[h]	29[h]	54.1[h]	1.64	
Minidoka	96	27	60.9	0.10	
Murray†	83	30	58.0	3.96	
Nampa	96	34	63.7	0.49	
Ola†	93	36	61.6	1.63	
Paris	90	28	56.7	0.65	
Payette†	99	40	67.6	1.01	
Pollock†	95	39	64.5	1.57	
Rexburg	87	33	59.2	0.68	
Roseberry†	78	27	52.3	2.30	
St. Maries	84	35	61.0	3.28	
Salubria	92	36	62.8	1.23	
Soldier†	89	21	56.2	0.24	T.
Swan Valley†	87	25	56.0	1.40	0.2
Warren†	87	25	53.2	3.20	
Yellowjacket	.....	.....	.....	1.86	
Illinois.					
Albion†	96	50	74.2	4.34	
Alexander†	98	43	73.3	4.52	
Ashton*†[1]	97	48	70.2	3.07	
Atwood *a*†[3]	100	42	67.4	8.17	
Aurora *a*	106	40	70.5	5.25	
Aurora *b*	97	40	67.9	5.30	
Beardstown†	.....	.....	.....	3.75	
Bloomington†	99	44	72.2	3.49	
Bushnell†	101	38	74.1	2.82	
Cambridge	95	44	69.8	1.44	
Carlinville†	98	47	74.2	3.91	
Carlyle	.....	.....	.....	3.50	
Carrollton	93	46	72.2	4.89	
Charleston	92	50	71.8	6.60	

TABLE II.—*Meteorological 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.*
Illinois—Cont'd.					
Chemung	95	34	65.0	6.36	
Chester	.....	.....	.....	9.60	
Cisne†	94	48	72.4	4.47	
Clearcreek†	102	40	69.8	7.35	
Coatsburg†	96	42	71.8	4.31	
Cobden†	96	47	74.0	4.67	
Cordova	.....	.....	.....	2.30	
Danville	97	42	70.8	4.53	
Decatur†	97	45	72.0	4.22	
Dixon†	98	40	68.5	5.27	
Dwight†	100	43	70.9	5.25	
East Peoria†	98	43	73.2	1.93	
Effingham†	95	49	72.4	5.19	
Evanston*[10]	88	44	63.7	.....	
Fort Sheridan†	93	39	63.5	4.41	
Friendgrove*†[4]	.....	54	73.0	5.52	
Galva†	97	40	69.9	0.92	
Glenwood*†[1]	98[e]	50[f]	66.7[e]	3.82	
Golconda†	100	47	75.8	3.58	
Grafton†	.....	.....	.....	4.99	
Greenville†	100	49	75.4	3.37	
Griggsville†	99	45	73.8	5.45	
Halliday*[5]	97[d]	59[d]	79.8[d]	4.28	
Havana†	97	44	73.4	3.58	
Herrin*[1]	94	42	73.2	5.45	
Hillsboro†	97	48	73.6	3.93	
Iron†[6]	95	43	74.0	6.12	
Joliet†	100	40	69.3	5.19	
Jordans Grove†	94	47	73.4	4.88	
Kankakee *a*†	91	45	70.4	3.32	
Kishwaukee	96	36	67.2	6.35	
Knoxville *a*	.....	.....	.....	2.38	
Lagrange†	93	38	66.0	3.74	
Laharpe*[1]	97	40	73.5	5.80	
Lanark*†[1]	97	34	66.2	5.58	
Lexington	97	43	70.9	1.59	
Loami†	.....	.....	.....	4.31	
Louisville†	94	47	72.2	4.28	
McLeansboro†	95	49	74.0	5.52	
Martinsville†	91	40	70.7	6.77	
Martinton†	97	43	70.3	4.44	
Mascoutah*[5]	96	46	74.2	4.83	
Mattoon*[1]	87[g]	50[g]	70.2[g]	5.11	
Minonk†	102	42	70.8	2.57	
Monmouth†	98	38	71.0	2.00	
Morgan Park	90	39	68.7	5.34	
Morrisonville†	93	47	71.6	4.99	
Mount Carmel†	.....	.....	.....	3.15	
Mount Pulaski	93	43	70.0	4.17	
Mount Vernon	96	46	73.4	7.49	
New Burnside†	99	48	75.4	4.15	
Olney *a**[1]	99	46	73.2	4.48	
Oregon†	98	38	68.2	4.19	
Oswego*[1]	94	46	67.6	5.19	
Ottawa†	98	41	70.4	6.90	
Palestine†	97	47	72.8	3.61	
Paris	95	43	70.5	5.60	
Peoria *a*†	.....	.....	.....	1.54	
Peoria *b*†	99	44	72.8	2.11	
Philo†	93	44	69.9	6.22	
Plumhill†	98	48	74.6	4.51	
Rantoul†	95	44	69.9	6.73	
Reynolds	97	40	70.2	1.67	
Riley†	94	36	66.0	3.23	
Robinson*†[3]	95	54	70.2	3.69	
Rockford†	94	36	66.5	4.09	
Roundgrove†	101	41	69.1	5.27	
St. Charles*†[1]	94	45	68.2	2.69	
St. John*†[1]	98	56	75.5	4.52	
Scales Mound	96	34	67.0	6.41	
Streator†	96	43	71.4	6.70	
Sycamore†	96	38	66.6	6.04	
Tiskilwa*†[3]	98	45	68.8	3.37	
Tuscola†	96	44	71.0	4.05	
Walnut†	.....	41	.....	4.95	
Warsaw†	.....	.....	.....	3.98	
Wheaton*[3]	.....	48	66.7	4.22	
Winnebago†	94	36	67.4	4.70	
Zion†	93	35	65.9	4.22	
Indiana.					
Anderson†	92	40	68.8	2.35	
Angola*[1]	94	45	67.5	3.53	
Auburn	90[d]	39	65.8	3.68	
Bloomington†	97	46	71.6	6.27	
Bluffton†	96	41	69.6	5.60	
Bright†	91	46	70.7	3.57	
Butlerville†	94	41	70.3	4.68	
Cambridge City†	92	38	68.2	3.53	
Columbia City*[1]	94	42	68.3	3.03	
Columbus†	92	41	69.0	4.26	
Connersville†	93	41	69.0	3.25	
Delphi†	96	39	69.7	4.85	
Edwardsville*†[1]	94	51	73.8	4.40	
Evansville†	97	48	74.9	4.95	
Farmland†	91	40	67.8	3.55	
Fort Wayne	93	39	68.3	4.49	
Indiana—Cont'd.					
Greencastle†	88	46	69.1	5.38	
Hammond†	93	36	67.0	.....	
Huntington	95	40	68.9	4.87	
Jasper†	95	46	72.7	3.70	
Jeffersonville	95	49	73.2	3.39	
Knightstown†	94	42	70.5	2.95	
Knox	96	40	70.6	4.30	
Kokomo†	98	42	70.8	6.76	
Lafayette†	93	44	69.5	5.16	
Laporte	99	36	64.7	2.51	
Logansport *b*†	95	40	70.3	3.29	
Madison†	94	46	72.7	2.30	
Marengo†	95	45	72.5	2.97	
Marion†	95	37	68.8	5.42	
Mauzy†	91	38	68.9	3.46	
Mount Vernon†	96	46	74.6	3.82	
Northfield†	91	40	67.8	5.11	
Princeton*[1]	98	49	73.3	.....	
Richmond	94	39	68.8	5.42	
Rockville†	90	45	69.0	5.30	
Rushville†	.....	.....	.....	3.25	
Salem	95	42	70.8	4.04	
Scottsburg	96[c]	46	73.2	5.02	
South Bend†	95	37	68.2	1.65	
Syracuse†	.....	.....	.....	3.58	
Terre Haute†	97	49	72.1	4.83	
Tipton†	98	41	70.5	2.65	
Topeka†	80	39	66.0	3.31	
Valparaiso†	92	38	65.8	3.95	
Vevay	95	57	76.2	4.45	
Vincennes†	98	50	73.8	3.48	
Warsaw†	95	40	67.0	4.11	
Washington†	96	44	72.0	3.37	
Winamac	.....	.....	.....	5.94	
Worthington†	92	45	71.4	5.83	
Indian Territory.					
Healdton†	97	53	78.1	3.85	
Kemp†	101	53	79.4	3.34	
Lehigh†	98	50	76.5	4.59	
Purcell	.....	.....	.....	7.77	
South McAlester	98	49	79.6	6.50	
Tahlequah	.....	.....	.....	3.45	
Tulsa†	.....	.....	.....	2.20	
Wagoner	102	47	78.7	4.07	
Iowa.					
Adair	.....	.....	.....	4.45	
Afton	95	42	71.4	4.57	
Algona*[1]	97	43	68.4	3.75	
Alta *a*†	92	38	67.4	1.86	
Amana†	97	39	69.4	2.27	
Ames *b*	95	39	68.8	2.16	
Ames (near)	.....	.....	.....	1.54	
Atlantic†	99	35	69.8	3.76	
Atlantic (near)	94	42	70.0	3.04	
Audubon	94	36	67.0	2.78	
Belknap	96	43	71.2	5.10	
Belleplaine	95	35	67.2	3.51	
Bonaparte†	101	40	72.4	6.43	
Britt	94	35	66.4	3.02	
Carroll	94	38	67.8	3.60	
Cedarfalls	98	40	68.8	4.85	
Cedar Rapids†	98	39	68.6	3.96	
Centerville	98	37	72.6	3.20	
Chariton	93	43	70.8	4.25	
Clarinda†	95	44	72.9	4.04	
Clinton	100	39	70.8	3.68	
College Springs	98	40	72.1	2.69	
Corning†	94	38	70.6	4.53	
Council Bluffs	98	42	72.4	1.47	
Cresco†	92	31	64.8	6.95	
Decorah†	95	39	66.2	7.38	
Delaware*[3]	97	46	67.2	3.13	
Denison†	89	40	66.8	2.96	
Dows	94	37	66.0	4.70	
Eldora	98	36	69.0	4.40	
Elkader†	101	31	66.8	3.95	
Estherville	99	37	65.5	5.06	
Fairfield†	99	39	70.4	5.88	
Fayette†	99	34	66.8	6.80	
Fonda	99	39	71.0	1.66	
Forest City	94	37	65.0	3.82	
Fort Madison*†[1]	95	49	73.4	4.28	
Fredericksburg	.....	.....	.....	4.47	
Galva†	98	36	68.8	2.17	
Gardengrove	101	36	71.4	4.95	
Gladbrook	.....	.....	.....	3.23	
Glenwood†	97	37	70.4	1.71	
Grand Meadow*[1]	90	36	64.3	7.51	
Greene	101	36	67.6	3.03	
Grundy Center	94	38	66.6	4.26	
Guthrie Center	95	38	69.3	3.25	
Hampton	94	39	66.2	4.56	
Hawkeye	.....	.....	.....	6.30	
Hopeville†	92	42	69.8	4.09	
Humboldt†	98	37	68.6	2.86	
Independence†	94	37	64.8	5.03	
Iowa—Cont'd.					
Indianola†	94	41	69.0	5.23	
Iowa City *a*†	97	38	69.0	2.38	
Iowa City *b*	92	34	67.6	.....	
Iowa Falls†	96	37	67.7	2.68	
Keosauqua	99	43	72.6	9.38	
Knoxville	96	43	71.3	3.57	
Lansing	99	29	67.6	6.53	
Larchwood	.....	.....	.....	4.58	
Larrabee†	95	34	66.6	4.26	
Leclaire	.....	.....	.....	1.47	
Lemars	98	36	68.4	3.11	
Lenox*[1]	90	49	70.7	4.53	
Logan†	96	36	69.6	2.97	
Malvern*[1]	101	42	73.7	2.07	
Maple Valley	.....	.....	.....	2.14	
Maquoketa	98	38	69.3	2.54	
Marshall†	96	39	66.6	3.76	
Milliman	.....	.....	.....	2.73	
Mooar	97	42	71.2	5.31	
Mountayr†	99	40	72.0	6.17	
Mount Pleasant*[1]	94	50	72.6	7.10	
Mount Vernon *a**[1]	98	45	70.6	2.17	
Mount Vernon *b*	99	38	68.6	2.95	
Neola	102	37	72.1	3.15	
New Hampton	98	42	65.8	4.88	
Newton†	98	41	70.0	2.85	
North McGregor	.....	.....	.....	4.68	
Northwood	93	32	65.2	5.05	
Odebolt	.....	.....	.....	2.40	
Ogden	95	38	68.8	1.91	
Osage*†[3]	.....	43	65.0	5.51	
Osceola	93	43	70.6	4.74	
Oskaloosa†	100	40	70.8	5.06	
Ottumwa	98	36	71.5	5.81	
Ovid†	94	40	70.8	4.50	
Plover	97	36	67.8	1.98	
Primghar	95	37	67.7	1.90	
Red Oak	97	40	74.0	3.95	
Reinbeck	.....	.....	.....	3.82	
Rock Rapids	96	35	66.4	4.98	
Rockwell City	101	41	71.0	.....	
Sac City†	97	39	66.6	2.25	
St. Charles	94	41	70.2	6.78	
Seymour†	99	40	71.6	5.13	
Sibley	95	32	64.8	4.20	
Sidney	94	48	71.6	3.55	
Sigourney	103	40	72.2	2.96	
Spencer	96	34	66.4	3.98	
Spirit Lake†	102	34	66.6	3.51	
Stuart	96	40	69.8	2.39	
Toledo	95	37	68.4	3.11	
Villisca†	94	40	70.9	6.50	
Vinton*[1]	95	44	67.9	3.31	
Washington	99	39	69.6	1.39	
Washta	.....	.....	.....	2.91	
Waterloo	97	38	66.8	4.32	
Waukee	95	34	68.2	2.85	
Waverly	93	39	67.4	2.75	
Webster City	94	41	68.4	2.46	
Westbend*†[1]	95	40	66.2	2.86	
Whitten*[1]	92	41	67.8	2.56	
Wilton Junction†	98	37	70.8	2.17	
Winterset†	94	40	69.2	6.21	
Kansas.					
Abilene†	105	42	77.5	2.32	
Achilles*[3]	101	46	68.2	3.30	
Altoona*†[3]	97	49	74.1	4.72	
Anthony	.....	.....	.....	2.84	
Assaria*[5]	104	44	80.3	0.37	
Atchison†	97	44	74.6	8.50	
Augusta	102	39	76.4	2.42	
Baker	99	49	75.1	4.90	
Beloit†	101	50	77.8	6.48	
Blaine	105	42	75.1	9.29	
Burlington†	99	40	74.8	5.96	
Campbell	100	43	74.2	6.61	
Chanute	95[d]	44[d]	75.8[d]	4.66	
Colby†	99	41[d]	70.2	4.74	
Coolidge†	106	45	74.3	0.58	
Cunningham†	110	40	77.0	1.69	
Dresden*[1]	101	45	68.8	3.99	
Elgin*[1]	97	55	76.4	3.48	
Ellinwood†	102	41	75.4	1.13	
Emporia†	97	45	76.3	3.00	
Englewood†	108	42	75.8	1.79	
Eureka†	.....	.....	.....	5.28	
Eureka Ranch†	103	43	74.5	2.00	
Fall River	97	42	76.2	4.23	
Fort Riley†	100	43	76.0	3.02	
Fort Scott†	97	42	73.8	10.52	
Frankfort	99	44	76.2	5.76	
Garden City†	103	45	74.2	3.19	
Garfield	.....	.....	.....	1.93	
Gibson*[5]	100	42	70.8	2.12	
Girard*[1]	98	49	75.6	6.52	
Gove*†[1]	96	46	69.5	4.49	

TABLE II.—*Meteorological 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.*
Kansas—Cont'd.					
Grainfield*[6]	92	48	69.8	4.02	
Grenola	98	39	75.3	2.98	
Halstead	102	40	73.4	2.30	
Hays†	98	45	68.6	3.10	
Horton	98	44	74.6	5.34	
Hutchinson†	103	42	76.0	1.18	
Independence†	103	45	78.6	3.97	
Lakin†	113	.....	.....	1.51	
Lawrence	98	44	74.6	4.86	
Lebo†	100	43	75.0	3.77	
Linn	.....	.....	.....	5.14	
Macksville	99	41	73.4	1.85	
McPherson	104	40	76.0	3.22	
Manhattan *b*	102	44	76.8	4.97	
Manhattan *c*	99	39	75.5	4.54	
Marion†	105	55	81.2	1.90	
Meade†	108	48	78.3	1.75	
Medicine Lodge†	111	40	78.2	2.26	
Minneapolis†	104	41	76.5	2.39	
Morantown†	95	43	74.6	4.24	
Morland	95	40	71.4	3.15	
Mounthope*[1]	102	52	76.4	2.55	
Ness City	.....	42	.....	1.95	
Newton	100	.....	.....	1.64	
Norton	97	38	69.6	4.33	
Norwich†	105	43	77.5	1.91	
Oberlin†	.....	.....	.....	5.00	
Olathe†	101	39	75.1	6.84	
Osage City†	100	43	76.0	6.75	
Oswego	100	43	77.0	4.21	
Ottawa	98	40	74.3	11.01	
Phillipsburg	102	42	71.6	4.29	
Pleasant Dale	102	41	74.6	1.31	
Pratt	104	44	76.2	1.45	
Rome*†[1]	101	45	75.0	4.07	
Salina†	108	38	78.4	1.83	
Scott City	102	41	73.8	2.81	
Sedan†	97	42	77.0	3.79	
Seneca	97	42	73.7	4.05	
Sharon Springs*[1]	105	46	73.0	4.10	
Toronto	98	39	75.9	3.38	
Ulysses†	104[1]	49[1]	75.5[1]	0.25	
Viroqua†	109	47	76.4	0.58	
Wallace*[1]	106	46	74.6	1.58	
Wamego*[1]	102	46	75.4	5.68	
Wellington*[1]	97	50	76.6	2.11	
Winona*[5]	104	45	71.0	1.08	
Yates Center	97	39	76.0	4.54	
Kentucky.					
Alpha†	94	45	74.0	5.44	
Ashland	96	45	72.8	5.35	
Bardstown†	96	45	73.2	4.93	
Blandville†	94	51	75.1	7.36	
Bowling Green *a*[1]	97	44	72.7	0.96	
Bowling Green *b*†	98	50	76.8	0.80	
Burnside†	.....	.....	.....	4.08	
Caddo†	94	47	71.3	2.58	
Canton*†[1]	98	54	75.5	6.12	
Carlisle	93	46	72.0	3.59	
Carrollton†	99	52	76.6	2.98	
Catlettsburg†	.....	.....	.....	4.70	
Earlington	98	46	75.4	2.58	
Edmonton†	92	45	72.8	2.08	
Ensor	95	50	74.5	2.17	
Eubank†	95	45	71.7	2.20	
Falmouth†	.....	.....	.....	2.70	
Fords Ferry†	100	49	76.2	4.08	
Frankfort†	95	46	73.4	4.12	
Georgetown	93	48	73.2	.....	
Greensburg†	101	45	75.2	3.21	
Henderson†	96	51	75.9	4.39	
Hopkinsville†	97	48	74.8	2.30	
Leitchfield†	96	43	73.1	1.84	
Loretto	96	43	72.0	4.22	
Louisa *a*	99	49	72.1	3.29	
Lyndon	.....	.....	.....	4.44	
Marrowbone†	98	43	73.6	1.47	
Maurice	94	46	72.2	1.65	
Maysville	95	48	70.0	1.48	
Middlesboro†	93	41	71.8	4.76	
Mount Herman	95	50	73.8	1.88	
Mount Sterling†	92	47	72.2	5.03	
Owensboro†	93	49	73.1	2.47	
Owenton†	95[f]	48[f]	74.4[f]	2.95	
Paducah *a*†	.....	.....	.....	5.68	
Paducah *b*†	100	52	77.5	5.98	
Pilot Oak	98	50	76.4	5.07	
Pleasure Ridge Park†	96	45	72.5	5.25	
Princeton	99	46	76.3	3.22	
Richmond†	97	49	72.5	3.65	
Russellville†	98	47	76.4	1.59	
St. John†	92	45	70.5	3.31	
Sandyhook	.....	.....	.....	4.88	
Shelby City	.....	.....	.....	1.51	
Shelbyville†	101	44	73.8	4.03	
Southfork[5]	.....	.....	69.7	3.73	
Kentucky—Cont'd.					
Vanceburg	92	43	69.0	2.85	
Williamsburg†	96	47	75.2	4.50	
Louisiana.					
Abbeville	99	61	80.9	1.40	
Alexandria†	102	59	79.8	2.41	
Amite†	105	55	81.7	2.91	
Bastrop†	98	57	80.0	4.77	
Baton Rouge†	99	58	81.0	4.85	
Cameron	.....	.....	.....	2.54	
Cheneyville†	100	57	80.2	4.18	
Clinton†	101	55	81.5	3.64	
Covington	101	56	81.2	3.44	
Donaldsonville†	100	59	81.6	3.44	
Elm Hall	97	58	77.8	1.97	
Emilie†	97	60	80.2	2.25	
Farmerville[k]	98	64	81.9	2.61	
Franklin†	103	61	83.8	1.40	
Grand Coteau	96	62	79.8	6.42	
Hammond	102	55	80.7	2.50	
Houma	100	59	79.6	4.01	
Jeanerette	104	58	83.0	2.69	
Lafayette†	103	59	81.1	2.58	
Lake Charles†	98	64	80.3	7.45	
Lawrence	102	66	83.0	5.63	
Liberty Hill	104	52	81.2	6.08	
Mansfield†	99	52	78.8	3.90	
Melville	98	65	81.4	5.76	
Minden	102	58	81.2	3.11	
Monroe†	101	60	81.8	3.39	
Montgomery	101	57	82.2	6.59	
New Iberia	100[c]	63[c]	81.5[c]	2.45	
Oakridge†	103	56	80.8	4.16	
Oberlin	100	60	79.6	9.55	
Opelousas†	100	51	77.6	4.90	
Oxford†	96	55	78.5	4.17	
Paincourtville†	102	56	81.4	2.51	
Plain Dealing†	99	59	80.4	3.52	
Rayne	101	54	81.4	2.58	
Robeline	100	54	79.0	3.37	
Ruston	97	57	80.8	6.22	
Schriever	102	55	81.8	3.41	
Shellbeach	99	65	83.3	1.99	
Southern University†	95	62	79.0	3.95	
Sugar Ex. Station†	98	64	82.0	8.01	
Sugartown†	99	62	81.0	3.22	
Thibodeaux	.....	.....	.....	2.74	
Venice†	98	67	80.4	2.47	
Wallace	98	62	81.4	6.03	
Whitehall	104[d]	55[d]	81.8[d]	2.30	
White Sulphur Springs	98	61	81.3	4.11	
Maine.					
Bar Harbor	83	35	56.6	4.00	
Belfast*[6]	74	47	57.3	3.08	
Cornish*[1]	84	47	58.7	8.68	
Fairfield	87	38	58.2	3.39	
Flagstaff	82	33	55.3	4.27	
Fort Fairfield	87	31	55.6	3.65	
Gardiner	88	42	60.4	4.32	
Kineo†	76	38	56.8	2.59	
Lewiston	90	42	60.4	3.71	
Mayfield	88	34	56.8	3.41	
North Bridgton	87	42	60.1	6.00	
Orono	83	39	57.0	3.71	
Maryland.					
Annapolis	94	55	72.5	1.73	
Bachmans Valley	91	36	65.4	3.71	
Boettcherville[3]	.....	.....	69.2	2.20	
Charlotte Hall†	92	45	69.7	2.69	
Cherryfields†[3]	.....	.....	70.5	2.82	
Chestertown†	90	43	67.8	5.35	
Collegepark	.....	.....	.....	3.49	
Cumberland *b*	92	45	70.8	1.88	
Darlington†	92	42	67.4	1.27	
Easton†	93	40	68.5	3.35	
Fallston*[1]	90	51	66.7	3.01	
Flintstone	91	32	66.1	2.53	
Frederick	93	39	68.9	2.06	
Grantsville	86	29	68.8	2.72	
Greatfalls*[5]	90	51	71.0	2.28	
Greenspring Furnace	95	42	68.9	1.85	
Hagerstown†	93	42	70.1	.....	
Jewell†	93	45	68.9	2.29	
Johns Hopkins Hospital	94	44	69.3	3.01	
Laurel	90	45	67.9	2.40	
McDonogh[d]	88	45	70.3	.....	
Mardela Springs†	93	42	69.3	2.79	
Mount St. Marys Coll.†	90	42	67.5	3.52	
New Market	92	48	69.2	2.76	
Pocomoke City	94	46	71.2	1.35	
Port Deposit	93	46	65.8	0.82	
Princess Anne	92	40	67.6	2.62	
Sharpsburg	92	40	67.5	2.40	
Smithsburg	90	45	68.6	2.71	
Solomons†	92	52	71.6	5.69	
Sunnyside	87	29	62.1	6.47	
Taneytown†	97	40	69.8	3.95	
Maryland—Cont'd.					
Van Bibber	93	43	68.3	2.81	
Western Port	96	36	70.3	1.39	
Woodstock	88	40	67.1	3.81	
Massachusetts.					
Amherst	83	36	61.8	6.68	
Bluehill (summit)	83	42	60.0	3.60	
Cambridge *a*	86	43	62.8	5.98	
Chestnut Hill	87	42	62.6	4.53	
Concord†	86	41	60.6	3.88	
Fallriver	84	48	62.5	2.35	
Framingham	87	43	63.6	4.44	
Groton	85	40	60.8	6.30	
Hyannis*†[1]	84	51	64.6	1.97	
Lawrence	91	44	62.4	5.38	
Leeds	87	41	63.0	6.56	
Lowell *a*	88	44	61.8	6.11	
Middleboro	83	39	60.6	3.26	
Monson	84	41	61.7	3.96	
New Bedford *a*	81	46	60.7	2.48	
Pittsfield	82	41	60.8	5.01	
Springfield Armory	86	39	60.8	6.22	
Taunton *b*	83	42	61.8	3.33	
Wakefield	87	43	62.3	6.50	
Westboro†	87	39	63.6	4.53	
Worcester *b*	82	45	62.4	4.13	
Michigan.					
Adrian	90	42	64.8	3.24	
Allegan	91	32	63.6	1.70	
Alma	93	34	63.0	3.63	
Ann Arbor	93	39	64.8	2.69	
Arbela	90	37	63.6	2.00	
Badaxe†	87	34	61.4	1.73	
Baldwin	96	26	61.0	1.19	
Ball Mountain	89	37	62.8	3.22	
Baraga	86	25	54.3	2.87	
Battlecreek	95	36	66.5	3.60	
Bay City *b*	93	.....	.....	0.64	
Benton Harbor	93	43	65.8	0.84	
Benzonia	89	36	62.6	3.63	T.
Berlin	89	33	60.7	2.14	
Berrien Springs	94	35	65.8	2.41	
Big Rapids	93	31	62.4	1.85	
Birmingham	91	38	65.6	2.73	
Bois Blanc*[10]	86	38	55.5	.....	
Boon	89	28[e]	59.6	3.80	
Calumet	81	32	55.0	2.53	T.
Camden	91	41	63.9	2.41	
Carsonville	85	34	59.4	1.53	
Charlevoix	77	34	56.0	1.90	
Cheboygan	85	30	57.8	2.08	
Clinton	93	38	65.4	3.92	
Cold Water	94	35	65.0	2.39	
East Tawas	86	36	60.0	1.48	
Eloise	91	37	64.5	2.33	
Escanaba†	84	29	58.3	3.76	T.
Ewen	83	21	55.3	2.80	
Fairview	88	41	62.7	3.19	
Fitchburg	91	35	62.3	2.67	
Flint	89	34	62.2	1.37	
Gladwin	91	33	62.5	2.27	
Grand Rapids *b*	93	37	64.4	1.91	
Grape	91	37	65.7	4.74	
Grayling	93	32	61.7	1.20	
Hanover	93	38	64.0	2.61	
Harrison	91	31	61.8	1.61	
Harrisville	82	32	56.8	1.33	
Hart	94	36	62.0	2.45	
Hastings	90	35	65.3	2.44	
Hayes	87	32	64.2	2.23	
Highland Station	.....	.....	.....	3.82	
Hillsdale	92	37	64.4	1.71	
Holland*[10]	83	41	63.2	.....	
Howell	90	37	65.5	1.75	
Humboldt	90	12	50.7	2.25	
Ionia	95	29	63.8	1.80	
Iron River	90[d]	23[e]	55.2[d]	3.51	
Ivan	92	32	61.6	2.31	
Jackson	95	39	66.0	4.26	
Jeddo	85	36	60.2	2.54	
Kalamazoo	94	41	66.2	4.59	
Lake City	92	31	61.0	2.53	
Lapeer	92	33	62.5	1.77	
Lathrop	89	24	56.6	3.16	
Ludington	86	33	60.0	1.48	
Luzerne	93	27	60.5	1.66	
Mackinaw City	78	32	55.1	2.40	
Madison	92	40	66.4	2.46	
Mancelona	91	31	59.3	1.95	
Manistee	85	33	58.4	1.95	
Manistique	81	30	55.2	2.33	
Mayville	89	38	63.3	1.68	
Middle Island*[10]	77	42	55.9	.....	
Midland	92	36	64.2	1.33	
Mottville	95	34	66.1	2.42	
Mount Clemens	92	34	63.9	2.57	
Mount Pleasant *b*	94	35	64.0	1.56	

TABLE II.—*Meteorological 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.*
***Michigan*—Cont'd.**					
Muskegon	86	39	62.9	1.74	
Newberry	87	28	54.2	2.57	
North Manitou Island *[10]	80	35	56.7	.....	
North Marshall [8]	91	37	64.6	3.02	
Northport	83	34	57.7	3.05	
Old Mission	86	33	58.8	1.81	
Olivet	90	40	64.8	5.39	
Omer *	90	32	63.0	1.16	
Ovid	89	38	63.6	3.23	
Owosso	93	38	65.0	2.42	
Parkville	.....	.....	.....	1.96	
Petoskey	85[g]	30[g]	55.8[g]	2.60	
Plymouth	93	33	64.5	2.33	
Point Aux Barques *[10]	78	36	59.0	.....	
Pontiac	89	38	66.9	2.52	
Port Austin	85	29	58.2	2.02	
Powers	89	29	58.7	3.43	
Reed City	90	24	61.5	1.31	
Rockland	88	27	56.4	2.00	
Rogers City	82	30	54.9	2.58	
Saginaw	92	39	65.1	2.16	
St. Ignace	79	33	55.4	2.55	
St. Johns	93	39	65.2	2.78	
Sandbeach *b*	85	30	56.0	0.79	
Sidnaw	90	24	56.4	2.98	
Somerset	89	39	64.2	3.28	
South Haven	88	38	63.4	1.55	
Stanton	90	35	63.7	1.61	
Sturgeon Point *[10]	75	40	58.0	.....	
Thomaston	92	27	59.2	4.40	
Thornville	90	38	64.6	1.96	
Thunder Bay Island *[10]	72	36	54.7	.....	
Traverse City	92	34	61.8	2.31	
Valley Center	87	31	61.8	2.64	
Vandalia	93	38	66.7	2.46	
Wasepi	91	35	64.4	1.59	
Waverly	89	31	63.0	2.00	
West Harrisville	83	32	58.6	1.21	
Wetmore	84	26	54.4	3.57	
White Cloud	94	32	62.1	2.99	
Ypsilanti	89	39	63.6	3.06	
Minnesota.					
Ada †	96	27	61.6	5.96	
Albert Lea	96	36	65.2	3.06	
Alexandria †	90	30	60.5	5.50	
Beardsley	95	29	62.1	6.54	
Bermidji	.....	.....	.....	8.70	
Bingham Lake	95	32	65.0	.....	
Bird Island	89	33	63.0	5.43	
Blooming Prairie †	92	35	65.0	5.65	
Bonniwell	96	33	62.9	.....	
Caledonia †	94	31	65.2	5.80	
Camden	94	30	64.0	3.82	
Collegeville	94	34	62.7	4.38	
Crookston †	96	32	61.4	3.93	
Detroit City	94	28	58.6	6.61	
Faribault	92	33	63.6	3.44	
Farmington †	96	26	61.6	6.87	
Fergus Falls †	92	29	62.4	4.86	
Glenwood †	97	28	62.4	5.94	
Grand Meadow †	97	33	64.6	6.78	
Lake City	98	28	65.6	3.51	
Lakeside †	90	33	64.0	9.75	
Lake Winnibigoshish [1]	90*	29	57.9	4.82	
Lambert †	94	26	59.2	3.85	
Lawrence	95	30	64.4	2.84	
Leech Lake [1]	93*	24	58.5	5.98	
Lesueur *[1]	98	40	65.9	6.55	
Long Prairie †	96	29	60.9	5.75	
Lutsen	78	28	52.4	2.51	
Luverne †	98	35	65.1	4.52	
Mapleplain	94	35	65.2	6.26	
Maplewood *[1]	89	43	64.4	.....	
Mazeppa [1]	102*	24	64.7	3.70	
Milan †	94	29	63.6	5.74	
Minneapolis *a* †	100	31	64.7	9.40	
Minneapolis *b* [1]	94*	31	63.4	9.22	
Minnesota City *†[1]	96	32	66.8	5.98	
Montevideo †	92	33	62.8	4.54	
Morris	96	30	63.6	5.12	
Mount Iron	97	25	56.8	3.27	
New London	94	28	57.2	6.18	
New Richland *[14]	96	42	66.3	.....	
New Ulm †	94	39	65.5	5.49	
Park Rapids †	93	27	57.5	7.49	
Pine River [1]	93*	26	59.6	5.88	
Pleasant Mounds †	92	34	64.3	4.15	
Pokegama Falls [1]	93*	21	57.3	5.01	
Redwing	.....	.....	.....	4.29	
Reeds	.....	.....	.....	6.15	
Roseau	96*	28*	58.2*	2.04	
St. Charles †	94	28	65.0	5.18	
St. Cloud	90	33	61.2	6.77	
St. Olaf	91	31	61.5	6.58	
Sandy Lake Dam [1]	92*	29	58.2	5.43	
Shakopee [6]	94*	34	64.2	6.46	
***Minnesota*—Cont'd.**					
Tower †	98	18	54.7	3.00	T.
Two Harbors †	83	33	54.0	4.07	
Wabasha *[1]	95	40	65.2	4.15	
Willmar †	90	32	62.8	7.88	
Worthington	90	34	64.0	6.76	
Zumbrota [1]	92*	22	64.9	.....	
Mississippi.					
Aberdeen †	108	51	81.4	0.40	
Agricultural College	101	58	81.8	1.93	
Austin †	97	51	79.3	4.94	
Batesville †	99	50	78.4	0.14	
Bay St. Louis	98	66	81.2	1.42	
Biloxi †	98	63	82.5	3.15	
Booneville †	101	53	80.8	0.50	
Briers †	96	64	80.5	2.39	
Brookhaven †	103	55	82.6	2.68	
Canton †	99	59	82.0	3.10	
Columbus *a* †	.....	.....	.....	0.74	
Columbus *b* †	111	54	83.8	0.60	
Corinth †	101	50	79.0	1.83	
Crystal Springs †	103	57	81.6	2.84	
Edwards	101	59	83.0	3.34	
Enterprise	102	56	81.4	1.44	
Fayette †	101	56	81.2	4.51	
Fulton †	98	52	80.6	1.48	
Greenville *a*	97	61	80.8	1.09	
Greenville *b* †	99	56	80.4	1.05	
Hattiesburg †	99	60	84.2	1.94	
Hazlehurst †	102	57	81.6	2.69	
Hernando †	100	55	79.2	1.54	
Holly Springs †	101	56	79.8	1.28	
Jackson †	101	55	81.0	3.59	
Lake †	99	55	80.4	3.80	
Leakesville †	102	59	82.2	2.16	
Logtown †	100	62	81.7	1.98	
Louisville †	101	57	80.4	1.25	
Macon †	104	54	82.9	1.41	
Magnolia †	103	54	81.4	2.56	
Mayersville	96	60	80.4	2.60	
Meridian †	100	56	80.7	2.83	
Mosspoint	99	66	82.8	2.25	
Natchez †	99	58	81.5	2.35	
Okolona †	104	52	82.0	0.37	
Pontotoc	101	53	80.8	1.86	
Port Gibson †	100	56	80.5	2.59	
Rosedale	99	55	80.6	1.23	
Stonington *[1]	96	66	81.7	.....	
Thornton †	98	60	81.3	3.70	
Topton *[1]	98	64	84.2	2.35	
Water Valley *†[1]	101	53	78.0	0.31	
Waynesboro *b* †	102	58	80.4	3.60	
Windham †	102	54	80.3	2.15	
Woodville †	98	57	79.9	5.51	
Yazoo City †	102	58	81.4	3.14	
Missouri.					
Akron	.....	.....	.....	8.27	
Appleton City	98	41	74.6	5.01	
Arlington †	.....	.....	.....	5.20	
Arthur *†[3]	.....	55	71.9	10.76	
Avalon	98*	45[j]	73.1[g]	5.58	
Bagnell †	.....	.....	.....	7.16	
Birchtree	92	46	71.8	5.78	
Bolckow †	.....	.....	.....	5.24	
Boonville †	.....	.....	.....	5.35	
Brunswick	95	46	72.8	4.94	
Carrollton †	98	46	74.6	6.36	
Conception	91	48	72.0	11.67	
Cowgill *[5]	98	48	73.5	7.28	
Darksville †	101	46	74.1	7.85	
Downing	.....	.....	.....	5.82	
East Lynne *[3]	.....	48	71.2	5.56	
Edgehill *[5]	96	52	73.1	8.91	
Eightmile *[1]	91	44	71.2	5.28	
Eldon *[1e]	97	50	73.8	.....	
Elmira	101	39	73.6	11.47	
Emma *[3]	.....	54	72.6	7.75	
Fairport	.....	.....	.....	5.75	
Farmersville	.....	.....	.....	7.34	
Fayette	98	44	74.2	7.28	
Fulton	.....	.....	.....	7.82	
Gallatin *[1]	97	49	73.2	7.11	
Glasgow	99	44	73.9	4.61	
Gordonville *[3]	.....	56	70.6	6.48	
Gorin	.....	.....	.....	4.58	
Halfway	96	42	74.3	6.10	
Harrisonville †	100	41	74.0	3.84	
Hastain	102	40	75.4	7.61	
Hermann †	.....	.....	.....	8.26	
Houston	95	50	74.1	5.05	
Houstonia	.....	.....	.....	8.53	
Humansville	99	40	75.8	5.62	
Irena	.....	.....	.....	5.13	
Ironton †	97	43	72.5	10.69	
Jefferson City †	98	47	75.5	5.90	
Kidder	99	42	73.0	6.46	
Lamar †	96	44	75.4	7.88	
***Missouri*—Cont'd.**					
Lamonte	.....	.....	.....	8.49	
Lebanon	93	45	74.2	5.20	
Lexington †	100	44	75.3	4.02	
Liberty	97	38	74.0	8.70	
McCune *†[1]	94	55	73.5	7.52	
Mansfield	.....	.....	.....	4.55	
Marblehill	98	45	73.0	7.40	
Marshall †	101	41	74.8	3.79	
Maryville	95	42	71.5	4.11	
Mexico †	100	45	74.4	7.29	
Mineralspring	92	42	72.8	3.25	
Montreal *[1]	92	51	72.2	3.93	
Mount Vernon	95	44	74.7	5.18	
Neosho	92	41	73.8	5.38	
Nevada *[1]	97	50	75.8	7.40	
New Haven *[1]	96	54	76.1	7.62	
New Madrid	102	49	75.6	3.27	
New Palestine *†[1]	93	59	75.2	6.54	
Oakfield	98	48	75.1	8.96	
Oakmound	.....	.....	.....	3.70	
Oakridge *[4]	.....	46	70.6	6.09	
Olden †	94	45	73.0	3.85	
Oregon *a*	94	45	73.4	3.68	
Oregon *b* *[1]	94	44	72.3	2.78	
Osceola †	.....	.....	.....	3.32	
Oto	.....	.....	.....	3.20	
Palmyra *[5]	96	50	75.2	8.32	
Phillipsburg *†[1]	96	51	73.7	6.17	
Pickering *[3]	.....	44	71.6	3.72	
Platte River *[3]	96	46	72.3	5.60	
Poplar Bluff	98	43[c]	76.2	8.72	
Potosi	94	38	68.2	9.22	
Princeton	102	44	74.6	6.51	
Rhineland	96	46	73.9	7.63	
Richmond	98	48	74.0	5.28	
Rolla	.....	.....	.....	4.66	
St. Charles	98	48	73.8	6.13	
St. James *[3]	.....	51	71.6	.....	
St. Joseph †	.....	.....	.....	5.30	
St. Louis	95	49	72.9	5.73	
Sarcoxie *[3]	92	42	72.2	4.19	
Sedalia	96	44	74.1	4.00	
Seymour *[1]	96	44	72.0	3.88	
Shelbina	.....	.....	.....	6.70	
Sikeston	96	49	74.8	4.51	
Stellada †	96	39	72.8	6.15	
Sublett	102	40	73.0	3.65	
Unionville †	97	47	73.8	4.54	
Vichy	96	43	73.2	5.60	
Virgil City	.....	.....	.....	7.97	
Warrenton	98	45	73.3	10.40	
Wheatland	.....	.....	.....	4.95	
Willow Springs	94	44	72.0	3.91	
Zeitonia *[1]	101	45	72.6	6.25	
Montana.					
Augusta †	86	36	60.8	4.77	
Billings †	98	39	63.5	2.61	
Boulder	88	30	57.8	2.38	
Bozeman †	91	36	59.6	3.90	
Bozeman Exper. Stat'n.	92	32	58.7	3.95	
Butte †	85	29	55.4	3.02	T.
Castle	90	27	55.4	2.89	
Chinook †	97	38	65.4	4.23	
Choteau †	88	33	58.2	7.24	
Columbia Falls	92	28	59.6	5.87	
Ekalaka	96	38	62.8	1.00	
Fort Benton	91	39	63.4	4.51	
Fort Custer †	100	39	65.3	3.10	
Fort Keogh †	103	39	67.4	1.09	
Fort Logan †	93	32	58.4	3.96	
Fort Missoula	85	32	60.0	3.88	
Glasgow	102	35	65.0	1.67	
Glendive †	105	41	67.2	1.48	
Greatfalls †	90	38	60.1	5.89	
Hogan †	93	34	58.8	6.03	
Kalispell	87	32	58.6	3.16	
Kipp †	86	27	54.0	7.53	T.
Lewistown	88	31	55.8	3.54	
Livingston †	93	35	60.7	3.30	
Manhattan †	93	33	60.8	2.29	
Martinsdale †	93	33	57.8	3.68	
Marysville †	86	35	55.6	4.49	T.
Monarch	88	24	56.0	5.10	
Radersburg	.....	.....	.....	4.06	
St. Ignatius Mission †	86	33	60.9	4.91	
St. Pauls †	92	20	56.6	0.68	
Troy	87	31	60.0	4.30	
Utica †	91	30	57.4	3.98	
Virginia City †	91	33	57.2	3.22	T.
Wibaux †	.....	.....	.....	1.87	
Yale †	95	27	59.0	2.19	
Nebraska.					
Agee *[1]	96	42	68.2	3.94	
Albion	98	35	69.0	4.74	
Alliance *[1]	92	40	67.2	2.01	
Ansley †	96	37	67.1	4.57	

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

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Nebraska—Cont'd.	°	°	°	*Ins.*	*Ins.*
Arapaho *1	96	46	73.5	2.90	
Arborville *1	96	40	70.2	4.22	
Arcadia	101	44	69.6	5.19	
Ashland *a* †	98	41	72.6	2.31	
Ashland *b* *1	100	51	75.8	2.69	
Ashton	98	39	70.3	5.14	
Auburn *† 1	100	44	74.6	2.19	
Aurora *1	94	48	75.5	5.35	
Bassett	92	38	65.8	3.39	
Beatrice †	98	42	72.2	4.29	
Beaver City †	99	41	70.4	3.54	
Benedict	.....	.....	.....	1.71	
Benkelman	.....	.....	.....	3.66	
Bluehill *1	94	47	71.2	7.68	
Brokenbow	.....	.....	.....	4.28	
Burchard	.....	.....	.....	3.37	
Burwell	.....	.....	.....	2.44	
Callaway †	98	47	67.8	4.95	
Camp Clarke	102	41	68.6	1.01	
Central City	97	51	76.2	3.75	
Chester *1	92	50	71.0	10.00	
Columbus †	95	42	69.4	3.15	
Cornlea	.....	.....	.....	5.62	
Creighton †	104	37	70.0	3.73	
Crete	99	43	71.4	2.41	
Culbertson	.....	.....	.....	8.67	
Curtis *a*	100	46	70.6	4.08	
David City *† 1	94	48	70.5	2.00	
Dawson	100	40	74.2	3.42	
Divide	.....	.....	.....	5.77	
Dunning *1	97	47	71.0	3.89	
Eden	.....	.....	.....	3.11	
Edgar *1	95	43	73.5	6.00	
Elba	.....	.....	.....	4.79	
Ericson *† 1	103	45	74.3	3.85	
Ewing †	.....	.....	.....	3.03	
Fairbury †	101	40	69.4	5.82	
Fairmont †	96	41	69.7	4.21	
Filley	.....	.....	.....	3.31	
Fort Robinson	94	38	64.0	1.49	
Franklin	105	38	71.4	5.50	
Fremont †	94	41	70.2	2.68	
Geneva †	99	39	70.9	4.42	
Genoa	97	40	70.1	3.80	
Gering †	100	37	68.4	0.67	
Gothenburg	106	44	69.8	4.45	
Grand Island *a* *1	100	47	74.0	5.12	
Grand Island *b*	93	42	69.4	5.34	
Greeley	.....	.....	.....	7.18	
Halgler	.....	.....	.....	4.56	
Hartington †	95	39	66.6	5.82	
Harvard *1	92	49	71.4	3.74	
Hastings *1	91	46	70.5	6.23	
Hayes Center	.....	.....	.....	4.36	
Hay Springs	94	36	63.4	1.52	
Hebron †	97	42	71.3	5.52	
Hickman	.....	.....	.....	1.68	
Holdrege *b* *1	98	52	72.2	3.45	
Imperial *a* †	102	42	70.1	2.38	
Indianola (near) *1	98	44[c]	69.4[c]	6.31	
Kearney *5	96	50	71.8	3.34	
Kennedy	97	40	66.0	3.80	
Kimball †	93	38	64.6	2.16	
Kirkwood *1	97	42	67.2	4.33	
Lexington †	92	37	67.6	4.61	
Lincoln b †	99	43	73.2	2.30	
Lincoln *d*	101	44	73.0	1.43	
Lodgepole †	99	35	66.3	1.42	
Loup *a*	.....	.....	.....	6.41	
Loup *b* *1	98	40	67.7	7.17	
Lynch *† 1	98	44	68.7	3.09	
Lyons	94	40	68.9	4.28	
McCook *1	98	46	72.4	5.63	
McCool	.....	.....	.....	2.92	
Madison *1	93	38	66.9	3.51	
Madrid *5	98	40	71.6	1.52	
Marquette	.....	.....	.....	3.40	
Minden *a* *1	95	48	69.7	4.99	
Minden *b*	.....	.....	.....	5.01	
Monroe	.....	.....	.....	3.59	
Nebraska City *b* *1	94	45	73.4	2.79	
Nemaha *1	104	50	74.7	3.71	
Nesbit	94	40	67.1	3.47	
Norfolk *a* †	93	42	68.8	2.93	
Norfolk *b*	95[k]	54[k]	74.2[k]	3.07	
Norman	96	43	70.7	5.88	
North Loup †	96	39	69.8	7.87	
Oakdale †	95	39	67.8	4.87	
Odell *5	94	52	73.3	4.82	
O'Neill †	93	38	66.8	3.15	
Ord	100	36	68.8	4.90	
Osceola	.....	.....	.....	2.50	
Ough †	.....	.....	.....	2.76	
Palmer *b*	.....	.....	.....	4.84	
Plattsmouth *a* †	.....	.....	.....	2.37	
Ravenna *a*	95	40	68.2	5.82	
Nebraska—Cont'd.					
Ravenna *b* *1	94	48	70.8	5.05	
Redcloud *a*	.....	.....	.....	10.93	
Redcloud *b* *1	96	50	76.3	12.25	
Republican *1	98	50	77.0	3.56	
Rulo *1	94	52	77.2	3.93	
St. Libory	93	33	69.6	4.94	
St. Paul	95	42	72.0	5.06	
Salem *1	96	48	75.6	1.20	
Santee Agency †	100	38	69.1	2.19	
Sargent	.....	.....	.....	5.13	
Schuyler	.....	.....	.....	3.24	
Seneca *1	96	45	70.0	5.70	
Seward *1	94	48	74.4	1.28	
Springfield *1	98	48	72.6	1.55	
Springview	100	40	68.2	1.90	
Stanton *1	98	46	68.9	4.93	
Stockham	.....	.....	.....	5.20	
Strang *1	98	52	75.8	2.84	
Stratton	.....	.....	.....	3.29	
Stromsburg	.....	.....	.....	3.47	
Superior *5	95	48	72.6	8.39	
Sutton	.....	.....	.....	3.70	
Syracuse	.....	.....	.....	2.18	
Tecumseh *b* †	100	36	72.8	3.89	
Tekamah	96	42	70.2	4.92	
Thedford *1	98	44	68.1	4.00	
Turlington †	98	41	71.6	2.55	
Valentine †	94	40	65.6	1.69	
Valparaiso	.....	.....	.....	2.30	
Wakefield	95	42	68.4	4.37	
Wallace *1	99	40	69.0	1.46	
Wayne	.....	.....	.....	2.10	
Weeping Water *1	98	44	69.5	2.44	
Westpoint †	98	42	70.0	6.08	
Whitman	.....	.....	.....	2.60	
Wilber *1	96	50	74.5	2.47	
Willard	.....	.....	.....	3.65	
Wilsonville *1	100	50	73.9	2.97	
Wisner *5	91[c]	49[c]	71.7[c]	5.23	
Woodlawn	.....	.....	.....	1.69	
York *1	105	41	74.7	1.76	
Nevada.					
Austin	85	32	58.8	0.79	T.
Battle Mountain *1	95	43	61.1	1.22	
Beowawe *1	95	43	63.8	0.75	
Candelaria	93	31	64.2	0.40	3.0
Carlin *1	96	36	62.2	0.19	
Carson City	89	32	58.8	0.12	
Cloverdale *1	88	49	65.5	0.02	
Clover Valley	.....	.....	.....	0.10	
Cranes Ranch	.....	.....	.....	0.88	
Darrough Ranch	.....	.....	.....	0.33	
Downeyville	102	39	69.9	0.35	
Elko *5	95	35	58.8	0.95	
Ely	90	25	57.6	0.15	T.
Empire Ranch	90	34	68.7	0.05	0.5
Fenelon *1	89	32	56.4	0.10	
Genoa	96	38[j]	67.2[a]	0.01	
Golconda *1	94	44	65.9	0.30	
Halleck *1	97	39	63.1	0.99	
Hamilton	87	20	53.4	0.04	0.4
Hawthorne *a* *8	89	48	69.1	T.	
Hawthorne *b*	93	40	66.0	T.	
Hot Springs *1	96	46	69.5	0.43	
Humboldt *1	91	42	63.1	0.57	
Keysers Springs	.....	.....	.....	0.10	
Lewers Ranch	87	31	57.6	0.55	
Los Vegas [c]	97	51	70.9	0.00	
Lovelock *1	94	46	66.8	T.	
McGill	100	30	59.7	0.02	
Midas	82	35	61.1	0.17	T.
Mill City *1	100	45	62.8	0.20	
Monitor Mill	90	29	58.6	T.	T.
Osceola	89	40	62.6	0.03	
Palisade *1	79	54	62.8	0.55	
Palmetto	88	25	58.2	0.58	0.5
Reno *8	98	46	64.9	0.00	
Reno State University	89	33	58.4	0.29	
Ruby Valley	.....	.....	.....	0.39	0.1
St. Thomas	112	49	82.5	T.	
San Antonio	95	37	64.2	T.	
Silver Peak	97	41	69.8	T.	
Tecoma *1	95	42	64.7	0.00	
Toano *1	92	36	63.4	T.	
Tuscarora	83	29	54.2	0.72	T.
Tybo	93	31	63.0	T.	
Verdi *1	90	39	57.2	0.20	
Wadsworth *1	96	48	69.0	0.20	
Wells	94	24	59.4	0.71	
New Hampshire.					
Bethlehem	83	32	58.2	6.97	
Concord	89	34	60.3	8.35	
Durham	87	37	59.6	8.85	
Grafton †	85	34	58.4	4.79	
Hanover	84	40	60.2	5.55	
Keene	86	33	59.8	5.71	
New Hampshire—Cont'd					
Lancaster	89	34	58.8	6.56	
Nashua	89	41	61.5	5.12	
Newton	86	39	59.7	6.61	
North Conway	88	34	57.8	5.27	
Peterboro	85	35	59.4	7.21	
Plymouth	92	37	60.4	5.49	
Sanbornton †	84	37	58.1	7.89	
Stratford	88	33	60.4	5.80	
West Milan	87	30	56.2	6.97	
New Jersey.					
Asbury Park	92	44	65.8	3.46	
Barnegat	96	47	69.0	4.82	
Bayonne	92	47	67.3	3.72	
Beachhaven	93	50	67.0	2.09	
Belvidere	91	41	65.0	3.23	
Beverly †	93	42	67.6	4.95	
Billingsport *1	89	56	68.4	4.01	
Blairstown	93	44	66.0	3.36	
Boonton	90	40	64.9	2.46	
Bridgeton	94	49	70.8	4.66	
Camden	90	47	66.8	4.43	
Cape May	90	46	67.2	2.23	
Cape May C. H. †	92	44	67.0	2.80	
Charlotteburg	86	35	61.6	3.71	
Chester	83	42	63.4	3.23	
Clayton	92	41	67.4	2.12	
College Farm †	91	41	66.6	2.50	
Deckertown	87	40	63.6	3.08	
Dover	88	42	64.0	3.44	
Egg Harbor City	92	39	66.5	3.32	
Elizabeth †	93	42	67.3	2.71	
Englewood	92	40	65.3	2.51	
Franklin Furnace	85	39	63.6	2.92	
Freehold	88	44	65.6	4.59	
Friesburg	.....	.....	.....	3.29	
Gillette	87	38	63.2	2.35	
Hammonton	.....	.....	.....	4.16	
Hanover	86	38	64.4	2.60	
Hightstown	92	45	67.3	4.62	
Imlaystown	94	44	69.2	4.57	
Junction	.....	.....	.....	2.73	
Lambertville	95	43	67.1	4.80	
Moorestown	91	43	66.8	4.58	
Newark *a*	89	46	66.8	3.28	
Newark *b* †	91	46	67.4	3.92	
New Brunswick *a*	92	42	68.0	2.47	
New Brunswick *b*	89	41	64.4	2.16	
Newton	87	38	63.8	3.59	
Ocean City	93	46	66.9	2.98	
Oceanic	89	50	67.2	2.76	
Paterson	91	43	67.4	2.91	
Perth Amboy	88	43	66.4	3.32	
Plainfield	89	39	65.5	2.79	
Rancocas	.....	.....	.....	4.38	
Rivervale	90	37	62.8	3.83	
Roseland	89	39	64.2	3.13	
Sergeantsville	88	42	65.2	5.50	
Somerville	94	37	66.5	2.80	
South Orange	88	41	65.9	3.20	
Staffordville	.....	.....	.....	2.95	
Toms River	92	37	65.6	4.79	
Trenton	91	48	69.2	4.37	T.
Vineland	95	41	67.6	2.30	
Woodbine	94	36	66.4	2.58	
New Mexico.					
Albert	101	50	73.9	4.27	
Albuquerque †	95	45	72.8	0.99	
Alma	93	39	68.2	0.7	
Angus V. V. Ranch	94	35	64.4	1.81	
Aztec †	92	32	64.4	T.	
Bernalillo †	99	45	72.3	0.63	
Bluewater †	96	28	64.8	0.12	
Buckmans	87	27	57.1	1.11	
Clayton	99	45	70.4	3.29	
Deming *8	104	60	77.8	0.50	
East Lasvegas †	88	39	63.6	1.28	
Eddy	106	46	77.8	0.66	
Engle †	99	45	73.9	1.58	
Espanola †	94	37	66.9	0.08	
Fort Bayard	96	45	70.4	0.60	
Fort Union [k]	90	33	63.4	3.39	
Fort Wingate	89	35	65.2	0.25	
Galisteo †	91	40	69.0	3.61	
Gallinas Spring †	104	44	72.0	0.78	
Gila	103	45	76.2	0.15	
Hillsboro †	99	51	75.9	0.42	
Labelle †	78	27	52.0	1.57	
Las Cruces †	101	43	75.8	0.07	
Lordsburg *8	99	68	81.5	0.00	
Los Lunas †	99	40	71.2	0.25	
Lower Penasco	98	50	71.9	0.65	
Monero †	90	25	58.6	0.22	
Ocate †	89	35	62.4	5.51	
Olio	95	34	66.5	0.00	
Puerto de Luna †	106	53	75.6	2.02	
Raton †	92	38	62.2	2.12	

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

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
New Mexico—Cont'd.	°	°	°	*Ins.*	*Ins.*
Rincon†	103	49	76.6	0.20	
Roswell†	104	51	75.0	1.42	
San Marcial†	99	48	74.4	0.85	
Shattucks Ranch	98	40	68.6	2.45	
Socorro	101	44	75.6	0.57	
Springer†	98	34	65.6	4.94	
White Oaks†	95	41	68.8	1.84	
Winsors Ranch	85	22	53.6	1.77	
New York.					
Adams				2.05	
Addison	86	35	61.0	2.56	
Akron				1.79	
Alfred	82	34	58.4	2.97	
Angelica†	86	31	59.1	5.56	
Appleton	88	38	61.6	1.65	
Arcade	85	33	59.2	2.64	
Atlanta				2.23	
Avon	93	33	62.1	1.96	
Baldwinsville	90	42	63.4	3.23	
Bedford	86	41	62.6	3.10	
Big Sandy*[10]	82	40	61.5		
Binghamton†	85	37	61.0	3.76	
Bolivar	85	30	59.0	3.44	
Boyds Corners				3.41	
Brentwood	93	36	64.0	3.50	
Brooklyn	91	49	68.1	2.60	
Canajoharie	90	44	62.8	6.31	
Canton	88	30	60.5	2.50	
Carmel	89	43	65.3	3.23	
Catskill	88	43	63.0	2.84	
Charlotte*[10]	82	40	57.8		
Chenango Forks				2.90	
Cherry Creek				3.10	
Cooperstown†	85	38	59.5	5.22	
Cortland	86	35	59.8	3.81	
Dryden	87	33	60.6	3.76	
Eagle Mills				5.56	
Elmira	87	40	65.2	1.76	
Fleming	87	41	62.0	3.96	
Fort Niagara†		42		2.15	
Franklinville	84	30	58.9	1.71	
Friendship	84	32	60.3	2.93	
Fulton				3.78	
Garrattsville	83	37	58.0	2.44	
Glens Falls	86	37	62.1	6.21	
Gloversville	84	38	60.1	6.72	
Haskinsville				1.88	
Honeymead Brook	84	36	62.0	4.55	
Humphrey†	82	36	59.4	3.71	
Ithaca	85	39	60.9	3.54	
Jamestown	86	37	61.8	2.06	
Kings Station				6.63	
Lake George	86	37	61.4	4.90	
Little Falls	86	40	59.1	5.45	
Lockport	84	39	61.6	1.53	
Lowville	86	35	58.8	3.40	
Lyndonville				1.74	
Lyons	88	44	62.8	2.95	
Madison Barracks†	85	36	59.4	1.08	
Mohonk Lake	82	46	63.4	2.29	
Mount Morris				2.10	
Newark Valley				3.81	
New Lisbon	84	29	57.2	4.10	
Niagara Falls				1.70	
North Hammond†	88	46	61.6	2.92	
North Lake	82	32	55.5	4.50	
Number Four†	82	29	55.2	4.29	
Ogdensburg	80	42	61.6	1.88	
Oneonta	88	35	61.7	5.31	
Oxford	91	32	60.6	4.80	
Palermo†	89	37	61.0	4.07	
Perry City	87	35	60.0	4.18	
Phœnix				3.28	
Pine City				2.28	
Pittsford	87	40	61.9	3.18	
Plattsburg Barracks†	83	39	61.6	3.90	
Port Jervis	86	42	63.8	3.24	
Potsdam	85	35	60.4	2.70	
Poughkeepsie	89	36	63.0	4.25	
Primrose	90	40	66.0	3.35	
Ridgeway	86	40	62.5	1.79	
Rome	92	36	62.2	4.87	
Romulus	91	41	62.9	2.71	
Rose				4.75	
St. Johnsville	86	39	60.2	3.50	
Saranac Lake	88	30	58.4	3.75	
Scottsville				3.15	
Setauket†	85	48	64.7	2.82	
Sherwood				3.90	
Skaneateles				3.15	
South Canisteo	86	30	58.7	3.48	
Southeast Reservoir				3.18	
South Kortright†	87	32	58.6	5.00	
Straits Corners	86	35	60.2	3.64	
Tyrone				3.04	
Wappingers Falls	89	44	65.8	4.55	

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
New York—Cont'd.	°	°	°	*Ins.*	*Ins.*
Warwick				3.38	
Watkins	90	38	62.0	2.04	
Waverly†	85	34	62.0	3.22	
Wedgwood	87	38	61.9	2.74	
Westfield	85	38	63.2	1.80	
Westpoint†	90	46	65.6	3.20	
Willetspoint	88	47	65.8	2.67	
North Carolina.					
Abshers	95	48	73.1	6.32	
Asheville†	90	46	70.4	6.09	
Beaufort†	92	62	76.7	4.80	
Biltmore†	92	47	70.6	5.13	
Bryson City†				3.30	
Chapelhill†	100	55	77.0	1.69	
Edenton	95	54	75.7	3.28	
Experimental Farm	96	58	77.0	3.28	
Fairbluff†				4.32	
Fayetteville†	98	58	76.8	2.94	
Flatrock	90	44	70.2	8.84	
Goldsboro†	99	60	78.2	3.73	
Greensboro†	98	55	76.4	2.82	
Henderson†	98	55	75.2	4.11	
Highlands	84	44	66.6	5.91	
Jacksonville	98	57	77.8	5.98	
Lenoir*†[1]	90	58	72.3	5.14	
Linville†	79	40	64.0	6.75	
Littleton†	96	51	74.0	2.15	
Louisburg†	98	55	76.4	2.12	
Lumberton†	98	63	78.8	6.16	
Lynn*†[2]	92		73.4	7.69	
Mana				2.20	
Marion	92	50	72.4	4.58	
Moncure†	96	52	75.6	3.59	
Monroe†	94	55	75.5	4.22	
Mountairy†	92	48	72.6	3.19	
Mount Pleasant	97	57	76.8	4.49	
Murphy†				2.94	
Newbern†	94	65	77.5	2.98	
Oakridge†	96	52	74.5	2.71	
Pantego				4.37	
Pittsboro†	93	55	75.4	4.51	
Rockingham†	100	60	78.4	5.09	
Roxboro†[f]	97	52	74.9	3.25	
Salem†	97	51	75.9	2.77	
Salisbury†	98	56	77.2	2.42	
Saxon†	100	49	76.2	3.03	
Selma	98	54	77.0	1.92	
Settle	98	54	76.0	2.70	
Skyuka				6.46	
Sloan†	97	58	76.4	5.74	
Soapstone Mount†	96	49	74.8	3.61	
Southern Pines *a*†	98	56	78.0	4.83	
Southern Pines *b*	99	59	77.9	3.08	
Southport†	95	62	78.2	3.16	
Springhope*[1]	95	59	75.2	4.56	
Tarboro	100	50	76.3	2.30	
Waynesville†	90	42	68.8	5.89	
Weldon†	99	51	75.2	1.86	
Willeyton	97	49	73.8	1.42	
North Dakota.					
Amenia[g]	93	29	61.0	6.85	
Ashley†	93	24	61.6	4.63	
Bordulac	94	30	58.6	1.34	
Buxton	92	28	60.7	2.90	
Churchs Ferry	100	32	62.8	2.97	
Coalharbor†	96	31	62.4	2.28	
Devils Lake†	97	30	60.8	4.43	
Dunseith				1.41	
Ellendale				5.12	
Falconer	96	28	62.9	2.67	
Fargo†	94	26	61.8	7.10	
Forman†	95	24	60.8	5.56	
Fort Berthold†	99	33	62.4	1.06	
Fort Yates†	97	30	64.0	2.85	
Gallatin†	95	25	61.6	3.25	
Glenullin	99	39[1]	66.6[1]	2.36	
Grafton†	98	29	59.8		
Grand Rapids†	94	25	61.0	6.30	
Hamilton	99	27	60.4	1.78	
Jamestown†	92	34	61.2	7.29	
Langdon†	96	24	57.9	2.45	
Larimore†	96	26	59.4	3.09	
McKinney	100	28	60.4	10.40	
Medora†	105	32	64.6	1.19	
Milton†	95	25	59.9	2.77	
Minnewaukon	97	28	61.1	5.05	
Minot†	101	29	63.0	3.38	
Minto†	102	27	61.6	1.81	
Napoleon†	93	25	61.0	8.96	
New England City	98	38	64.6	1.20	
Oakdale†	95	31	62.2	2.60	
Portal†	109	28	59.9	2.03	
Power†	94	32	64.0	6.20	
St. John†	95	31	59.8	2.49	
Sheyenne	98	26	61.4	3.87	
Steele†	93	26	62.0	4.00	

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
North Dakota—Cont'd.	°	°	°	*Ins.*	*Ins.*
Towner†	97	27	60.6	1.17	
Valley City†	92	29	58.9	6.32	
Wahpeton†	100	29	64.5	6.95	
Whites Ranch	100	32	65.2	1.36	
Wildrice†[2]			62.5	5.74	
Woodbridge†	96	20	58.9	2.44	
Ohio.					
Akron	90	41	66.0	1.55	
Annapolis	94	34	67.2	3.15	
Ashland	87	40	64.8	3.51	
Ashtabula	86	43	62.7	2.65	
Atwater				2.41	
Auburn				1.55	
Bangorville	93	42	67.0	3.76	
Basil				2.93	
Bellefontaine	95	39	68.7	2.08	
Bement				1.96	
Benton Ridge	93	34	67.5	2.90	
Bethany	102	45	72.7	2.33	
Bigprairie	92			2.58	
Binola	90			2.15	
Bissells	89	39	65.1	1.52	
Bladensburg	89	35	65.6	2.25	
Bloomingburg	92	44	69.7	2.19	
Bowling Green	92	38	65.4	2.67	
Bucyrus	94	46	69.2	1.10	
Cambridge	90	38	65.9	3.56	
Camp Dennison	96	46	71.6	2.27	
Canal Dover	92	37	66.8	1.61	
Canfield				4.07	
Canton†	90	40	67.1	2.61	
Carrollton	91	36	65.4	3.78	
Cedarville				3.28	
Cherryfork	99	41	72.8	2.14	
Chillicothe†				2.28	
Circleville	92	45	69.4	1.45	
Clarksville	93	45	69.8	1.26	
Cleveland *a*	87	42	64.4	1.10	
Cleveland *b*	88	42	65.5	0.91	
Clifton	95	40	69.1	4.76	
Coalton	96	40	70.6	3.18	
Colebrook	88	34	65.6	2.53	
Dayton *a*	98	41	71.1	2.20	
Dayton *b*†				1.47	
Defiance	92	39	65.1	5.91	
Delaware	94	41	69.1	2.84	
Demos	88	42	67.7	2.71	
Dupont	93	40	66.2	2.97	
Elyria	91	40	65.3	1.61	
Fairport Harbor*[10]	82	48	65.6		
Fayetteville	94	46	70.7	1.58	
Findlay	97	38	67.8	2.80	
Frankfort	90	41	67.1	1.95	
Garrettsville†	88	32	63.0	1.59	
Granville	93	41	67.6	3.52	
Gratiot	90	41	67.8	2.66	
Greenfield	95[d]	48[d]	72.0[d]	2.20	
Greenhill	90	33	64.9	3.02	
Greenville	88	42	67.0	3.31	
Hackney				5.36	
Hanging Rock	94	44	72.0	5.37	
Hedges	92	37	67.6	5.11	
Hillhouse	87	31	62.5	1.60	
Hillsboro†	98	39	71.0	1.25	
Hiram	85	38	63.9	1.85	
Hudson	90	35	64.9	2.34	
Jacksonboro	97	45	70.5	1.70	
Kenton†	92	41	68.0	3.94	
Killbuck	92	36	67.0	2.92	
Lancaster	92	42	68.4	1.48	
Leipsic	93	34	66.0	3.80	
Levering	92			3.45	
Logan	96	37	73.6	1.41	
Lordstown	85	36	64.4	2.28	
Lowell	99	40	72.8	5.93	
McArthur	93	41	69.0	4.76	
McConnelsville†	93	41	73.4	4.94	
Mansfield†				2.67	
Marietta *a*†				3.70	
Marietta *b*	93	43	68.9	3.39	
Marion	94	39	68.4	3.50	
Medina	91	38	65.4	2.66	
Milfordton	92	37	62.7	2.59	
Milligan	99	37	69.2	3.11	
Millport	86	33	63.0	2.22	
Montpelier	94	38	65.6	4.04	
Napoleon	98	39	66.6	3.75	
Neapolis				3.45	
New Alexandria	88	41	67.4	5.07	
New Berlin	90	37	66.0	2.37	
New Bremen	92	40	68.5	2.10	
New Comerstown	92	38	67.0	2.32	
New Holland	97	43	70.8	1.13	
New Paris	94	39	70.4	5.29	
New Waterford				4.10	
North Lewisburg	96	41	68.8	3.05	

TABLE II.—*Meteorological 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.*
Ohio—Cont'd					
North Royalton	89	38	55.4	1.91	
Norwalk	90	38	64.8	2.71	
Ohio State University	93	42	68.0	2.86	
Orangeville	90	33	63.5	3.17	
Ottawa	92	40	67.7	3.63	
Pataskala †	95	41	68.4	2.51	
Perry				0.99	
Philo	95	41	69.8	2.93	
Plattsburg	95	40	68.8	3.23	
Pomeroy	94	43	70.4	6.92	
Portsmouth *a* †				2.66	
Portsmouth *b*	98	49	74.8	2.61	
Richwood				2.40	
Ridgeville Corners	92	33	66.0	2.94	
Ripley	93	49	71.7	2.96	
Rittman	90	35	62.0	2.42	
Rockyridge	96	38	67.0	3.03	
Rosewood	90	41	67.0	2.84	
Shenandoah	92	38	65.0	2.22	
Sidney *b*	96	41	69.0	3.31	
Sinking Spring †	93	45	70.0	2.09	
Springboro				2.80	
Spring Valley	95	41	69.0	1.86	
Strongsville				1.88	
Sylvania	92	36	64.6	3.63	
Thurman	96	44	71.0	4.71	
Tiffin †	91	41	66.8	3.04	
Upper Sandusky	90	40	67.1	1.93	
Urbana	89	41	67.0	2.93	
Vanceburg	94	45	69.8	3.64	
Van Wert	92	40	67.2	3.43	
Vermilion	89	40	67.9	2.02	
Vickery	92	37	65.4	2.28	
Walnut				2.82	
Warren	93	35	64.7	1.91	
Wauseon	93	38	66.5	3.33	
Waverly	99	41	72.4	2.11	
Waynesville				3.28	
Wellington	94	41	67.5	2.36	
Westerville	91	44	67.4	2.97	
Willoughby				1.38	
Wooster *a*				3.23	
Wooster *b* †	88	37	64.4	2.98	
Youngstown	91	34	63.1	2.65	
Oklahoma.					
Alva	109	50	78.2	1.70	
Anadarko †	100	43	78.4	2.60	
Arapaho †	100	45	76.6	2.85	
Beaver				3.66	
Burnett †	94	47	76.2	3.37	
Clifton †	99	45	77.4	2.64	
Fort Reno †	94	46	75.3	2.69	
Fort Sill	99	48	76.1	2.80	
Hennessey	100	47	79.0	1.40	
Jefferson	105	42	77.7	5.15	
Keokuk Falls				4.48	
Kingfisher	100	46	76.9	1.83	
Mangum †	104	42	77.0	3.23	
Norman †	97	46	77.4	5.35	
Ponca	99	50	77.4	2.48	
Prudence †	102	36	77.0	3.81	
Sac and Fox Agency †	97	43	76.0	2.50	
Stillwater †	93	44	75.6	4.13	
Waukomis	104	44	78.2	1.22	
Winnview †	99	43	76.5	2.33	
Woodward	108	45	79.9	1.16	
Oregon.					
Albany *a*	86	41	62.8	2.73	
Arlington	90	42	67.0	0.51	
Ashland *b*	93	36	60.8	2.01	
Aurora *[8]	92	52	67.6	2.90	
Aurora (near)	84	34	59.5	1.68	
Bandon	70	46	58.4	0.96	
Bay City †	78	40	58.2	6.83	
Brownsville *[8]	92	55	66.3	2.41	
Burns (near) *	87	38	58.2		
Canyon City	91	38	60.6	2.11	
Cascade Locks	88	48	63.8	2.75	
Comstock *[8]	85	42	55.6	1.96	
Coquille River L. H.				1.55	
Corvallis *a*	87	37	60.6	2.09	
Dayville †	91	34	61.1	1.32	
Eugene *a* †	85	40	60.1	4.14	
Falls City				1.73	
Fife †	83	20	50.8	2.16	
Forest Grove	85	37	60.8	1.79	
Fort Klamath	83	29	53.4	1.65	
Gardiner	75	43	58.2	2.18	
Glenora	87	38	56.8	4.06	
Government Camp	75	27	48.1	5.91	
Grants Pass *a* †	94	38	61.6	2.26	
Happy Valley	86	29	55.0	1.61	
Hood River (near)	85	42	61.1	0.95	
Irvington				1.39	
Jacksonville	92	40	61.6	1.46	
Joseph	83	30	55.2	2.68	
Oregon—Cont'd.					
Junction City *[8]	92	42	61.6	1.68	
Lafayette *[8]	90	48	62.5	2.23	
Lakeview †	88	28	57.0	2.09	
Langlois	79	43	61.5	3.58	
McMinnville	89	33	61.6	1.55	
Merlin *[8]	98	46	66.3	2.12	
Monmouth *[8]	93	54	66.2	1.59	
Mount Angel †	93	38	61.6	2.83	
Nehalem				5.50	
Newberg	89	32[e]	60.3[e]	1.97	
Newbridge	93	19	58.4		
Newport	70	41	58.0	1.70	
Pendleton	94	31	63.0	0.57	
Prineville	88	30	58.4	2.53	
Riddles *[8]	94	36	60.5	1.05	
Salem *b* †	83	38	60.9	1.77	
Sheridan *[8]	88	51	64.9	1.39	
Silver Lake	91	26	54.6	2.65	
Silverton *[8]	88	52	64.0	1.87	
Siskiyou *[8]	85	40	58.4	4.25	
Sparta	88	32	58.1	2.85	
Springfield *[8]	85	50	62.5	2.98	
Stafford	88	34	60.0	2.00	
The Dalles †	90	42	65.9	1.07	
Tillamook Rock L. H.				3.74	
Umatilla				0.80	
Vale	93	38	64.3	1.19	
Vernonia	88	34	61.9	3.52	
West Fork *[8]	94	40	60.2	1.69	
Weston	89	35	61.8	1.34	
Williams	91	36	60.4	1.64	
Pennsylvania.					
Altoona	88	40	67.0	2.44	
Aqueduct	96	39	68.7	2.93	
Beaver Dam				5.22	
Bethlehem				4.03	
Blooming Grove	84	33	60.5	3.30	
Brookville †				5.19	
Browers Lock				4.29	
Cameron				2.72	
Canonsburg	90	42	67.9	1.11	
Carlisle	95	39	67.4	1.52	
Cassandra	83	32	62.4	2.88	
Cedarrun				1.18	
Centerhall †	84	39	62.9	4.03	
Chambersburg †	92	36	66.1	1.22	
Coatesville	96	41	67.5	2.92	
Confluence †	90	39	66.0	2.48	
Coopersburg	88	46	65.3	4.33	
Davis Island Dam †				4.00	
Derry Station	89	34	66.3	1.99	
Doylestown				4.99	
Driftwood				2.48	
Dubois				2.48	
Duncannon				3.91	
Dunmore	89	36	62.8	3.32	
Dushore	87	30	61.8	3.09	
Dyberry	85	34	60.1	2.85	
East Bloomsburg				2.79	
East Mauch Chunk	90	40	64.6	2.08	
Easton	88	44	66.2	3.26	
Edinboro *[1]	84	38	62.8		
Ellwood Junction †				4.71	
Emporium	88	36	63.1	2.04	
Everett	87	33	64.2	5.00	
Farrandsville				3.10	
Forks of Neshaminy *[1]	85	54	67.4	6.42	
Franklin	89	37	63.2	2.90	
Frederick				3.22	
Freeport †				3.46	
Gettysburg	96	40	69.4		
Girardville				4.17	
Grampian	88	36	63.7	3.14	
Greensboro †	95	41	68.4	4.15	
Greenville	93	34	63.2	3.55	
Hallstead †	82[1]	35[b]	60.0[b]	2.80	
Hamburg	93	46	68.2	4.59	
Hollidaysburg	93	31	65.4	1.66	
Huntingdon *a* †	90	39	65.8	4.27	
Huntingdon *b*				4.28	
Irwin				2.87	
Johnstown †	88	37	65.5	3.67	
Karthaus				0.82	
Keating				3.77	
Kennett Square	93	41	66.3	2.78	
Lansdale				4.22	
Lawrenceville				2.55	
Lebanon	96	39	66.4	3.00	
Leroy †	84	39	61.6	3.77	
Lewisburg	92	38	65.5	2.31	
Lock Haven *a* †	94	38	66.9	3.05	
Lock Haven *b*				2.72	
Lock No. 4 †				2.72	
Lycippus	89	42	67.2	2.42	
Mifflin				1.58	
Oil City †				4.05	
Pennsylvania—Cont'd.					
Ottsville				5.55	
Parker †				3.69	
Philadelphia *b*	92	48	69.0	4.19	
Point Pleasant				5.04	
Pottstown	93	46	69.4	4.90	
Quakertown	90	39	64.0	3.81	
Reading [2]			67.4	3.03	
Renovo *a*				2.79	
Renovo *b*	88	39	66.4	2.59	
Ridgway †				2.88	
Saegerstown	90	28	61.2	3.58	
St. Marys	85	32	60.9	2.13	
Salem Corners	82	42	62.0	3.59	
Scranton	87	34	63.2	3.43	
Seisholtzville				3.12	
Selinsgrove	92	38	69.2	2.62	
Shawmont				5.59	
Shinglehouse	86	28	59.8	3.49	
Sinnamahoning				1.59	
Skippack	91	39	64.5	4.37	
Smethport	85	30	60.4	2.95	
Smiths Corners				6.00	
Somerset	84	32	62.0	2.56	
South Bethlehem	88	40	66.4		
South Eaton	83	39	62.2	3.92	
State College	87	38	64.1	3.03	
Sunbury				2.05	
Swarthmore	91	47	68.5	4.28	
Swiftwater	81	38	61.2	3.35	
Towanda	87	37	62.6	2.11	
Warren †	87	34	61.6	2.50	
Wellsboro †	85	32	59.8	2.85	
West Chester	91	45	66.8	2.43	
West Newton †				2.60	
White Haven	88	36	60.4	2.82	
Wilkesbarre †	91	39	65.2	3.72	
Williamsport	87	38	64.0	3.89	
York †	93	38	66.8	2.42	
Rhode Island.					
Bristol	83	48	61.8	2.08	
Kingston	83	38	61.6	4.43	
Providence *a*	90	48	65.6	3.31	
South Carolina.					
Allendale †	102	64	82.8	4.86	
Anderson †				3.12	
Batesburg †	98	63	80.3	4.51	
Blackville †	102	62	81.5	5.62	
Camden †				7.03	
Central †	100	52	79.4		
Cheraw *a* †	100	60	79.2	7.01	
Cheraw *b* †				7.32	
Clemson College	100	51	79.0	2.68	
Conway †				5.10	
Darlington (near)				4.50	
Edisto †				9.12	
Effingham †				5.30	
Florence †	99	60	78.2	6.42	
Georgetown †	94	63	79.7	4.80	
Gillisonville †	103	60	82.1	7.76	
Greenville †	95	56	75.4	3.63	
Greenwood	100	62	79.8	3.39	
Holland	101	49	78.3	4.80	
Kingstree *a* †	99	63	80.6	5.98	
Little Mountain	102	61	79.4	7.89	
Longshore †	97	60	78.2	3.89	
Mount Carmel †				1.82	
Pinopolis *[1]	94	67	77.8	11.75	
Port Royal †	98	67	82.5	4.85	
St. George †	96	64	79.8	6.61	
St. Matthews †	97	53	78.6	5.16	
St. Stephens †				7.01	
Santuck †	97	58	77.4	4.77	
Shaws Fork *[1]	96	67	79.4	5.74	
Smiths Mills †				5.61	
Society Hill †	95	62	77.2	6.86	
Spartanburg	96	58	77.4	6.19	
Statesburg †	97	61	79.3	5.85	
Trenton	96	62	80.6	2.79	
Trial †	97	62	78.2	7.96	
Walhalla	96	57	76.4	3.01	
Winnsboro	95	63	77.2	3.34	
Yemassee †	103	64	82.4	5.57	
Yorkville	96	62	78.2	4.87	
South Dakota.					
Aberdeen †	100	30	66.2	4.40	
Alexandria †	92	36	67.4	4.89	
Armour †	97	37	66.5	4.23	
Ashcroft †	99	35	63.9	1.14	
Brookings	91	29	63.6	3.86	
Canton	94	35	66.2	3.14	
Castlewood †	95	24	63.2	5.60	
Centerville				3.91	
Chamberlain †	94	35	67.0	1.89	
Cross †	85	33	57.4	3.09	
Doland	99	37	65.6	4.00	
Edgemont				0.21	

TABLE II.—*Meteorological 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 Dakota—Cont'd.					
Farmingdale	.....	.....	.....	2.12	
Flandreau	93	31	63.2	5.18	
Forestburg †	95	36	66.0	3.93	
Forest City	.....	.....	.....	4.64	
Fort Meade †	94	39	63.5	5.32	
Gary	98	33	62.4	4.00	
Goudyville	102	28	64.4	4.71	
Highmore	98	32	66.8	2.79	
Hitchcock	.....	.....	.....	3.24	
Hotch City †	98	35	66.1	1.96	
Hot Springs	89	40	65.0	1.98	
Howard †	91	31	63.8	3.73	
Kimball †	93	37	66.0	2.52	
Leslie †	104	40	69.3	3.44	
Mellette †	100	29	66.2	4.50	
Menno †	99	36	69.2	1.86	
Millbank	94	30	62.6	4.60	
Mitchell †	92	33	64.6	2.26	
Oelrichs †	98	38	67.2	0.70	
Parker †	96	33	66.1	3.64	
Parkston	92	32	65.4	4.93	
Plankinton †	98	30	68.2	1.98	
Rosebud	97	35	64.6	1.47	
Shiloh	95	38	63.4	2.89	
Silver City	.....	.....	.....	2.56	
Sioux Falls †	93	32	65.2	4.80	
Spearfish †	88	40	65.2	4.38	
Tyndall †	98	38	68.4	4.23	
Watertown	91	25	60.2	7.76	
Wentworth †	94	27	64.4	4.35	
Wessington Springs	92	32	64.9	2.96	
Tennessee.					
Andersonville	96	48	74.4	4.59	
Arlington †	98	49	77.5	3.08	
Ashwood *†[1]	97	57	78.3	1.74	
Benton (near) †	99	47	75.5	3.87	
Bolivar †	99	48	76.6	2.19	
Bristol †	89	50	70.9	4.07	
Brownsville †	100	52	78.5	1.82	
Byrdstown	98	46	72.4	4.95	
Cagle	92	50	72.7	4.95	
Carthage †	.....	.....	.....	2.35	
Center Point	.....	.....	.....	0.83	
Charlotte	98	44	75.0	2.48	
Clarksville	95	48	74.6	3.39	
Clinton †	.....	.....	.....	3.88	
Covington	102	53	78.6	1.57	
Decatur †	97	48	75.2	3.52	
Dyersburg	99	54	79.8	2.54	
Elizabethton †	98	47	74.2	5.60	
Elk Valley	96	46	73.4	4.34	
Erasmus	90	38	69.7	3.28	
Fairmount *[1]	90[f]	58	72.2[e]	2.26	
Florence †	96	48	76.0	1.49	
Franklin	96	46	75.6	2.05	
Greeneville †	90	47	71.8	7.39	
Harriman	95	46	74.1	3.52	
Hickory Withe	99	53	78.8	2.71	
Hohenwald †	98	41	73.6	2.69	
Jackson †	100	50	77.8	2.05	
Johnsonville †	.....	.....	.....	3.81	
Liberty †	96	47	75.4	1.75	
Loudon †	.....	.....	.....	3.25	
Lynnville †	97	50	76.6	1.57	
McKenzie †	98	52	77.2	2.06	
McMinnville †	94	47	73.8	3.90	
Milan †	103	50	78.3	2.58	
Molino †	97	53	77.8	1.70	
New Market *[1]	94	59	73.7	5.24	
Newport †	93	49	74.4	6.60	
Nunnelly *[1]	97	55	75.5	5.06	
Oak Hill *[1]	96	46	71.8	2.42	
Palmetto †	97	48	76.6	2.29	
Paris Landing *[1]	93	53	74.8	2.46	
Pope	98	48	77.3	0.78	
Riddleton †	95	46	74.9	2.11	
Rockwood †	.....	.....	.....	2.57	
Rogersville †	89	47	71.4	6.33	
Rugby	91	40	71.5	2.21	
St. Joseph †	102	46	77.7	1.45	
Savannah	103	48	78.0	1.39	
Sewanee †	88	53	72.8	2.34	
Springdale *[1]	90	62	75.9	3.68	
Springfield *[1]	97	50	76.1	1.45	
Tellico Plains †	98	49	75.6	2.80	
Tracy City	93	42	72.8	.....	
Trenton	97	48	75.6	2.58	
Tullahoma †	97	43	73.6	1.10	
Union City †	100	49	76.6	4.17	
Waynesboro	98	46	76.4	1.03	
Texas.					
Albany *[1]	85	52	73.0	4.08	
Arthur City †	.....	.....	.....	2.92	
Austin *[5]	99	58	79.0	.....	
Ballinger †	102	52	78.4	1.23	
Beeville †	103	63	82.6	3.04	
Texas—Cont'd.					
Blanco †	96	56	78.8	1.75	
Boerne *†[1]	97	63	79.8	2.15	
Bowie	97	52	77.4	6.17	
Brazoria †	99	64	80.8	0.54	
Bremond *[1]	100	68	85.3	2.15	
Brenham †	104	63	82.9	2.02	
Brighton †	98	62	80.4	3.22	
Brownwood	108	57	81.7	3.17	
Burnet *[1]	100	62	80.8	1.43	
Camp Eagle Pass †	105	68	84.7	1.50	
Childress	111	46	79.8	2.57	
Coleman *[3]	.....	56	75.2	4.40	
College Station	98	62[g]	79.9[d]	2.82	
Colmesneil	.....	.....	.....	1.66	
Columbia †	99	62	79.7	0.76	
Corsicana *b* †	104	58	81.6	3.46	
Cuero †	100	62	82.2	4.68	
Dallas †	102	56	79.2	4.00	
Danevang †	102	60	82.2	1.67	
Dean	104	44	74.4	1.28	
Dublin †	99	.....	.....	5.32	
Duval *[1]	106	66	85.0	1.29	
Emory	99	55	79.6	4.44	
Estelle †	102	54	78.6	2.64	
Forestburg †	95	52	76.6	4.82	
Fort Clark	106	61	82.8	2.23	
Fort McIntosh	101	65	84.4	0.56	
Fort Ringgold †	102	67	84.0	1.47	
Fort Stockton	.....	.....	.....	T.	
Fort Worth †	103[c]	56[c]	80.8[c]	5.90	
Fredericksburg *†[1]	97[c]	58[f]	78.9[f]	2.10	
Gainesville †	96	55	77.6	4.82	
Golindo	.....	.....	.....	7.40	
Grapevine †	99	55	77.9	3.80	
Hale Center †	100	52	74.6	1.41	
Hallettsville †	102	61	82.1	3.20	
Hearne †	100	65	83.3	2.85	
Henrietta †	95	53	76.4	1.87	
Hewitt	.....	.....	.....	5.10	
Houston †	99	66	81.3	0.91	
Huntsville †	101	61	81.6	2.17	
Junction City	99	56	81.1	2.38	
Kent	.....	.....	.....	2.36	
Lampasas †	102	53	80.8	2.12	
Langtry	100	66	83.0	3.80	
Llano *†[5]	103	60	83.2	3.25	
Longview †	105	50	82.6	3.89	
Lufkin †	103	60	83.0	3.13	
Luling †	100	61	82.5	3.29	
Marathon	100	50	74.4	3.80	
Marshall [g]	99	62	79.6	4.42	
Menardville	100	52	79.0	.....	
Midland	107	53	76.8	1.71	
New Braunfels †	97	61	81.0	2.93	
Orange †	94	62	79.4	0.52	
Panter †	.....	.....	.....	3.24	
Paris †	104	54	79.4	2.01	
Point Isabel *[1]	90	78	82.8	1.75	
Rheinland †	105	48	79.6	1.83	
Roby	104	44	76.0	4.69	
Rocksprings	.....	.....	.....	3.01	
Runge †	.....	.....	.....	3.09	
San Antonio	100	63	82.8	2.48	
Sanderson †	104	54	77.8	3.35	
San Marcos *b* †	99	60	81.5	4.95	
Sierra Blanca †	103	42	76.4	2.43	
Stafford †	100	62	82.1	1.79	
Sulphur Springs †	107	56	81.4	5.22	
Temple *a*	99	60	79.9	9.20	
Temple *b*	102	59	80.8	8.40	
Tyler	102	58	80.9	3.46	
Valentine †	103	50	75.3	1.57	
Waco †	101	60	81.8	3.77	
Waxahachie †	105	54	81.8	4.30	
Weatherford †	97	55	79.0	4.20	
Wichita Falls †	.....	.....	.....	4.06	
Utah.					
Alpine City †	.....	.....	.....	0.47	
Blue Creek *[3]	97	38	66.7	T.	
Brigham City †	.....	.....	.....	0.55	
Castlegate	87	24	66.3	0.47	
Cisco †	100	41	70.6	T.	
Corinne	93	36	63.8	0.15	
Croydon	90	31	60.1	0.16	
Ferron	93	31	66.5	0.03	
Fillmore †	98	32	66.9	0.26	
Fort Duchesne †	93	31	62.8	0.03	
Frisco	92	26	66.4	0.11	
Giles †	101	38	65.4	T.	
Heber	92	28	58.2	0.38	
Kelton *[3]	90	48	68.6	0.00	
Levan †	92	31	63.2	0.41	
Loa †	88	23	57.6	0.22	
Logan †	88	40[i]	63.2[e]	0.56	
Manti †	104	28	64.4	0.18	
Millville	.....	.....	.....	0.66	
Utah—Cont'd.					
Minersville	94	36	65.6	0.03	
Moab †	97	43	72.1	0.14	
Mount Pleasant †	100	32	65.8	0.39	
Ogden *a* *[3]	96	40	72.5	0.98	
Pahreah	96	36	68.1	0.00	
Park City †	78	28	52.0	0.39	3.0
Parowan †	89	33	63.0	0.02	
Pinto	92	28	61.3	0.05	
Promontory *[3]	97	46	70.6	0.00	
Richfield †	92	20	59.0	0.00	
St. George †	104	45	75.1	0.00	
Scipio †	91	27	63.1	0.21	
Snowville	90	31	60.5	0.26	
Soldier Summit †	90	20	54.2	0.12	1.2
Terrace *[3]	94	40	68.7	0.00	
Thistle †	90	28	58.2	0.77	
Tooele †	93	33	66.4	0.16	
Tropic	87	31	60.8	0.26	
Vernal	89	36	65.4	0.23	
Woodruff	84	26	51.6	0.00	
Vermont.					
Bennington	85	36	61.6	6.33	
Brattleboro	88	38	63.4	4.85	
Burlington †	81	43	64.1	5.63	
Chelsea †	84	34	57.5	4.49	
Cornwall	84	40	63.0	4.92	
Enosburg Falls	83	33	60.6	3.46	
Hartland †	83	33	58.5	6.51	
Jacksonville	84	33	56.4	5.80	
St. Johnsbury	83	37	59.8	6.02	
Strafford *†[1]	82	38	59.4	5.25	
Vernon *[6]	85	50	64.5	5.96	
Wells	84	33	61.0	5.26	
Woodstock	89	34	60.6	6.23	
Virginia.					
Alexandria	94	43	71.0	3.43	
Ashland †	96	46	72.2	3.64	
Barboursville	94	45	70.6	3.63	
Bedford City	96	45	72.1	3.68	
Bigstone Gap †	90	38	69.0	3.62	
Birdsnest *†[1]	94	60	73.5	3.25	
Blacksburg	90	39	67.4	2.34	
Buckingham †	97	43	71.4	1.90	
Burkes Garden	87	37	67.6	3.80	
Callaville †	66	47	73.2	0.99	
Christiansburg †	.....	.....	.....	2.04	
Clarksville †	.....	.....	.....	2.68	
Clifton Forge	94	40	68.4	3.83	
Dale Enterprise †	95	40	69.2	2.88	
Danville †	.....	.....	.....	2.08	
Doswell	100	48	77.6	.....	
Farmville	103	45	76.2	3.85	
Fredericksburg †	97	46	71.9	3.63	
Gordonsville	89	57	73.4	.....	
Goshen	.....	.....	.....	4.75	
Grahams Forge	89	42	69.0	4.14	
Hampton	93	58	74.0	2.43	
Hot Springs	91	50	72.8	3.52	
Leesburg	102	38	70.4	.....	
Lexington †	91	44	69.9	3.33	
Maidens	.....	.....	.....	1.75	
Manassas †	94	41	70.5	7.19	
Marion †	89[d]	43[d]	69.9[d]	5.83	
Monterey	89	40	64.7	3.25	
Petersburg †	98	45	73.9	2.19	
Quantico	95	41	70.5	.....	
Radford †	.....	.....	.....	2.13	
Richmond (near) †	101	46	73.9	2.11	
Rockymount †	96	48	74.6	1.09	
Salem †	93	48	73.2	1.31	
Saltville	88	41	69.9	4.07	
Spottsville †	98	47	74.0	0.71	
Stanardsville †	93	45	69.7	3.51	
Staunton †	94	42	70.0	2.18	
Stephens City †	89	40	69.2	4.16	
Sunbeam †	97	49	73.9	1.23	
Swords Creek	89	44	70.3	2.99	
Warrenton	93	51	71.0	3.54	
Warsaw †	95	48	71.6	4.14	
Westbrook Farm	99	45	72.5	.....	
Woodstock †	96	45	70.9	3.37	
Wytheville	88	44	69.2	1.98	
Washington.					
Aberdeen	74	43	57.8	4.76	
Anacortes	.....	.....	.....	1.48	
Ashford †	.....	.....	.....	3.08	
Blaine †	82	32	56.1	3.28	
Bridgeport	97	40	68.4	0.80	
Cascade Tunnel	75	28	45.0	.....	
Centerville †	93	34	62.2	0.43	
Chehalis †	90	35	61.2	2.58	
Colfax †	84	32	59.3	2.82	
Coupeville †	74	38	57.4	0.84	
Dayton	88	41	62.5	2.94	
Ellensburg †	85	33	61.6	0.80	
Ellensburg (near)	94	40	65.4	0.50	

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

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Washington—Cont'd.	°	°	°	*Ins.*	*Ins.*
Fort Simcoe†	96	41	65.2	1.15	
Fort Spokane	85	35	62.8	2.55	
Grandmound†	86	40	60.1	1.54	
Hunters†	76	29	54.2	4.01	T.
Kennewick†	100	38	68.0	0.50	
La Center	87	40	61.0	2.69	
Lakeside	87	41	64.6	1.25	
Lapush†	70[d]	43[d]	57.4[d]	2.77	
Lind	94	36	65.3	1.58	
Loomis†	91	38	66.2	2.33	
Madrone†	78	40	59.2	1.79	
Mayfield†	85[e]	34[e]	60.2[e]	3.15	
Moxee Valley†	94	35	68.6	0.68	
New Whatcom[h]	81	38	57.5	2.53	
Northbend	86	38	59.6	5.33	
Olga	75	44	57.6	1.29	
Olympia†	81	34	58.8	1.49	
Pinehill†	88	38	62.8	0.89	
Pullman†	84	38	59.4	2.34	
Rosalia†	81	35	58.4	3.16	
Sedro†	85	43	62.8	3.12	
Silvercreek*[1]	86	42	57.8	3.90	
Snohomish†	83	38	55.0	3.55	
Southbend	80	40	58.8	3.77	
Stampede[e]	74	42	61.7	3.93	
Stillaguamish	81	36	59.4	1.55	
Sunnyside†	96	38	67.8	0.30	
Union City†	85	38	61.6	2.49	
Vashon†	80	41	58.9	2.62	
Waterville†	89	30	58.0	0.58	
Wenatchee Lake	85	32	55.8	.....	
West Ferndale	85	39	60.0	4.03	
West Virginia.					
Beckley	90	36	70.8	2.11	
Beverly†	90	38	68.0	5.24	
Bluefield†	95	44	71.8	4.39	
Buckhannon *a*†	.....	.....	.....	6.42	
Buckhannon *b*	91	37	68.4	.....	
Burlington†	93	35	67.8	1.31	
Charleston†	.....	.....	.....	5.36	
Clay[g]	94	44	71.4	.....	
Dayton†	.....	.....	.....	4.07	
Elkhorn†	89	43	69.8	5.87	
Fairmont†	.....	.....	.....	3.83	
Glenville†	87	41	67.8	6.40	
Grafton†	88	38	67.7	5.15	
Green Sulphur	88	40	69.8	4.62	
Harpers Ferry†	.....	.....	.....	3.20	
Hewett†	95	40	71.8	3.48	
Hinton *a*†	.....	.....	.....	3.42	
Hinton *b*†	93	41	71.4	.....	
Huntington	91	43	71.4	3.20	
Kingwood	85	36	65.0	3.60	
Marlinton†	86	37	65.2	5.59	
Martinsburg†	90	41	68.4	3.18	
Morgantown *a*†	.....	.....	.....	5.09	
Morgantown *b*†	91	40	67.8	5.77	
New Martinsville†	*91*	*41*	*70.4*	*4.16*	
Nuttallburg†	88	35	71.6	4.15	
Oldfields†	90	36	68.2	1.94	
Philippi†	.....	.....	.....	7.89	
Point Pleasant†	96	46	72.8	5.46	
Powellton	89	43	69.8	6.63	
Romney	91	40	70.8	2.45	
Rowlesburg†	.....	.....	.....	4.57	
Tannery*[1]	81	38	62.9	.....	
Weston *a*	.....	.....	.....	5.34	
Weston *b**†[1]	90	47	70.6	.....	
Wheeling *a*†	.....	.....	.....	2.76	
Wheeling *b*†	93	45	71.2	3.22	
White Sulphur Springs†	92	38	68.2	6.55	
Wisconsin.					
Amherst	94	29	61.7	9.86	
Antigo	96	26	60.0	6.42	
Barron	96	22	60.0	6.23	
Bayfield	88	32	56.8	4.41	
Beloit	93	.....	.....	5.77	
Butternut	98	33	60.8	6.54	
Chilton	94	34	63.1	4.69	
Citypoint	100	34	66.9	5.70	
Crandon†	98	25	61.8	2.95	
Delavan	96	34	64.7	4.85	
Dodgeville†	.....	34	.....	6.70	
Easton†	97	25	63.4	4.10	
Eau Claire	96	25	61.8	5.05	
Florence†	93	23	58.7	5.36	
Fond du Lac	95	35	63.6	4.99	
Wisconsin—Cont'd.	°	°	°	*Ins.*	*Ins.*
Grand River Lock	.....	.....	.....	3.27	
Grantsburg†	98	23	61.7	7.93	
Gratiot	98	35	67.7	7.95	
Hartford	.....	.....	.....	3.14	
Hartland	92	35	64.6	3.47	
Harvey	96	34	64.9	6.39	
Hayward†	99	25	60.6	5.81	
Hillsboro	95	25	64.4	8.23	
Koepenick*†[1]	96	34	61.6	5.40	
Lancaster†	95	35	66.0	7.90	
Lincoln†[2]	.....	.....	63.8	8.20	
Madison†	94	38	66.4	4.03	
Manitowoc†	85	35	58.3	3.27	
Meadow Valley†	97	28	63.6	3.57	
Medford†	100	25	60.6	8.12	
Menasha	.....	.....	.....	5.38	
Neillsville†	94	26	62.8	6.04	
New Holstein	96	40	65.4	4.67	
New London	93	32	62.6	5.65	
Oconto	86	31	60.9	4.41	
Osceola†	99	25	60.9	7.30	
Oshkosh†	92	36	63.4	3.91	
Pepin	93	32	63.8	3.39	
Pine River†	96	30	64.0	4.55	
Portage†	97	31	64.8	6.48	
Port Washington	89	36	61.0	3.10	
Prairie du Chien	100	35[f]	68.7[e]	5.10	
Racine	92	38	62.7	3.41	
Sharon†	95	36	64.0	5.33	
Shawano	92	28	60.1	5.05	
Spooner†	98	22	60.8	3.34	
Stevens Point†	95	26	63.3	6.76	
Sturgeon Bay Canal*[10]	83	36	55.9	.....	
Valley Junction†	98	26	64.2	.....	
Viroqua	95	30	65.3	9.11	
Watertown†	94	34	64.2	5.61	
Waukesha†	93	39	64.8	3.14	
Waupaca†	95	30	63.6	8.88	
Wausau†	96	29	61.8	5.17	
Wausaukee	95	29	61.7	.....	
Westbend	94	36	62.4	3.37	
Westfield†	96	32	64.8	5.55	
Whitehall	100	33	66.0	5.42	
White Mound†	99	27	66.2	8.25	
Wyoming.					
Big Horn Ranch	83	29	54.3	1.37	
Carbon	95	33	61.3	1.08	
Fort Laramie†	97	40	65.4	2.03	
Fort Washakie†	89	24	59.4	1.13	
Fort Yellowstone†	83	33	53.8	2.34	T.
Laramie	82	29	55.6	0.72	
Lusk†	98	33	63.3	0.79	
Sheridan	93	33	60.4	1.73	
Strong	96	35	62.4	1.12	
Sundance	89	32	58.2	4.19	
Wamsutter	104	31	65.4	0.03	
Wheatland	97	30	65.5	1.63	
Mexico.					
Ciudad P. Diaz	100	69	85.0	1.84	
Leon de Aldamas	91	56	72.7	4.51	
New Brunswick.					
St. John	70	45	55.4	3.87	
West Indies.					
Grand Turk Island	.....	.....	.....	0.00	

Late reports for May, 1897.

Stations.	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
Alaska.					
Coal Harbor	62	29	42.6	0.71	T.
Killisnoo	56	30	43.4	8.40	
Arizona.					
Parker	.....	.....	.....	T.	
Walnut Grove	.....	.....	.....	0.02	
California.					
Indio*[8]	105	58	80.0	0.00	
Milton (near)*[1]	92	52	67.2	0.73	
Florida.					
Merritts Island	92	60	75.8	1.16	
Illinois.					
Cordova	.....	.....	.....	1.15	
Morgan Park	80	30	52.4	2.06	
Iowa.					
Osage	.....	.....	.....	1.71	
Rock Rapids	89	28	56.1	0.38	
Kentucky.	°	°	°	*Ins.*	*Ins.*
Vanceburg	83	35	57.4	5.82	
Louisiana.					
Cameron	.....	.....	.....	2.05	
Missouri.					
Bethany	.....	.....	.....	2.03	
Nebraska.					
State Farm	95	35	61.3	1.94	
New Mexico.					
Bluewater	.....	.....	.....	1.80	.....
Socorro	90	44	68.1	1.20	
New York.					
Elizabethtown	.....	.....	.....	2.89	
North Carolina.					
Horse Cove	82	31	61.4	2.00	
Oregon.					
Comstock*[8]	89	40	57.0	1.28	
McMinnville	98	34	59.8	1.03	
Umatilla	.....	.....	.....	0.62	
Pennsylvania.					
Dyberry	78	30	55.4	5.13	
South Dakota.					
Flandreau	90	28	57.2	1.98	
Texas.					
College Station	88	53	72.1	2.70	
Utah.					
Kelton*[8]	88	40	67.3	.....	
Wisconsin.					
Gratiot	.....	.....	.....	1.00	

EXPLANATION OF SIGNS.

* Extremes of temperature from observed readings of dry thermometer.

† Weather Bureau instruments.

‡ Record furnished by the Arrowhead Reservoir Company, in the San Bernardino Mountains, San Bernardino County, Cal., at elevations varying from 5,150 to 5,350 feet.

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.
[8] Mean of 7 a. m. + 2 p. m. + 9 p. m. ÷ 3.
[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.

CORRECTIONS.

Louisiana, Opelousas, April, 1897, make mean temperature 69.6[d] instead of 68.0[d].

Mississippi, Bay St. Louis, May, 1897, make precipitation 0.29 instead of 0.19.

Michigan, St. Ignace, January, 1897, make minimum temperature —10 instead of —15; make mean temperature 19.8 instead of 18.4; February, make mean temperature 19.4 instead of 13.7.

The following changes have been made in names of stations:

Kansas, Morton, changed to Viroqua.
Oklahoma, Pondcreek changed to Jefferson.

May Review, page 200, fourth line, heading, for South Carolina read West Virginia.

TABLE III.—*Data from Canadian stations for the month of June*, 1897.

Stations.	Pressure.			Temperature.		Precipitation.		Prevailing direction of wind.	Total depth of snow.
	Mean not reduced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Total.	Departure from normal.		
	Inches.	*Inches.*	*Inches.*	°	°	*Inches*	*Inches.*		
St. Johns, N. F	29.65	29.79	— .18	47.2	— 4.2	3.32	.....	ne.	
Sydney, C. B. I	29.85	29.91	— .02	53.2	— 1.3	1.50	— 2.19	sw.	
Grindstone, G. St. L.	29.77	29.80	.....	49.9	.....	2.85	.....	n.	
Halifax, N. S	29.80	29.93	— .01	55.2	— 2.3	6.05	+ 2.15	w.	
Grand Manan, N. B.	29.84	29.89	— .07	54.0	.....	5.21	+ 2.91	w.	
Yarmouth, N. S. ...	29.84	29.92	— .01	53.0	— 2.0	5.24	+ 3.10	nw.	
St. Andrews, N. B..	.....	.....	.....	.....	.....	.....	.....	.....	
Charlottet'n, P. E. I.	29.84	29.88	— .06	55.0	— 2.9	3.73	+ 0.98	w.	
Chatham, N. B	29.86	29.88	— .02	56.4	— 1.6	2.39	— 1.90	w.	
Father Point, Que..	29.84	29.87	+ .01	51.2	— 1.8	1.84	— 0.85	e.	
Quebec, Que.....	29.54	29.86	— .03	56.6	— 3.9	2.56	— 0.71	ne.	
Montreal, Que	29.68	29.88	— .02	60.3	— 4.2	3.76	+ 0.57	sw.	
Rockliffe, Ont.....	29.38	29.88	— .02	57.6	— 0.4	3.98	+ 1.23	nw.	
Kingston, Ont	29.60	29.91	— .03	59.8	— 2.2	2.31	— 0.09	sw.	
Toronto, Ont	29.57	29.95	— .01	60.8	— 0.7	2.91	+ 0.19	n.	
White River, Ont ..	28.62	29.95	.00	55.0	— 3.7	0.87	— 1.10	w.	1.2
Port Stanley, Ont ..	29.34	29.97	+ .02	60.6	.....	1.45	— 1.57	n.	
Saugeen, Ont	29.26	29.97	+ .03	55.6	— 2.4	2.71	+ 0.34	nw.	
Parry Sound, Ont..	29.24	29.93	.00	56.5	— 2.5	2.04	— 0.17	w.	
Port Arthur, Ont ..	29.22	29.91	.00	54.8	— 1.2	3.39	+ 0.58	w.	
Winnipeg, Man	29.04	29.85	.00	60.6	— 0.9	2.31	— 1.53	n.	T.
Minnedosa, Man ...	28.10	29.86	+ .04	58.2	— 1.3	1.88	— 1.91	e.	
Qu'Appelle, Assin..	27.64	29.85	+ .03	58.7	— 2.3	4.81	+ 1.46	nw.	
Swift Curr't, Assin.	27.34	29.86	+ .04	60.7	+ 2.7	0.83	— 2.72	n.	
Calgary, Alberta...	26.36	29.83	— .02	55.6	+ 0.1	6.13	+ 3.79	w.	
Prince Albert, Sask.	28.32	29.80	.....	57.1	.....	2.89	.....	ne.	
Edmonton, Alberta.	27.58	29.87	+ .03	58.1	+ 1.6	4.20	+ 2.01	se.	
Battleford, Sask ...	28.16	29.85	.....	60.4	.....	3.87	.....	se.	
Kamloops, B. C.	28.63	29.84	.....	64.4	.....	1.76	.....	w.	
Hamilton, Bermuda	29.95	30.11	— .01	75.2	.....	9.57	.....	sw.	
Banff, Alberta.....	25.30	29.89	.....	50.6	.....	5.06	.....	ne.	1.8
Esquimalt, B. C.....	29.94	29.97	.....	55.8	.....	0.86	.....	sw.	
Ottawa, Ont	29.58	29.93	.....	60.7	.....	3.03	.....	nw.	
May, 1897.									
Medicine Hat, Assin	27.62	29.86	.00	61.8	+ 6.3	0.59	— 0.57	e.	

Table IV not received.

TABLE V.—*Mean temperature for each hour of seventy-fifth meridian time, June, 1897.*

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.
Bismarck, N Dak.....	58.3	57.0	56.0	55.4	54.8	53.9	54.1	56.3	58.3	60.8	63.3	65.6	67.0	68.6	70.0	71.0	71.8	71.5	70.7	69.7	66.8	63.9	61.6	59.9	62.8
Boston, Mass.	57.6	57.0	57.5	56.1	55.7	56.4	58.5	61.0	63.1	64.5	65.1	65.7	66.2	66.3	67.1	67.0	66.9	66.0	64.4	61.9	61.0	59.9	59.0	58.5	61.7
Buffalo N Y.....	59.2	58.3	57.6	57.1	57.2	57.9	59.2	60.5	61.7	63.0	63.6	64.6	65.1	65.2	65.0	65.1	64.9	64.4	63.6	63.1	62.1	61.5	60.8	60.2	61.7
Chicago, Ill.....	62.8	62.3	61.8	61.6	60.8	60.4	60.8	62.8	63.6	64.9	65.4	66.1	66.2	66.7	66.5	66.3	66.7	66.8	66.2	65.4	64.5	64.3	63.8	63.9	64.2
Cincinnati, Ohio.....	67.2	66.1	65.2	64.5	64.0	63.7	64.7	66.3	68.7	71.5	73.3	75.0	76.5	77.9	78.8	79.6	80.0	79.7	78.3	77.1	75.0	73.2	71.2	69.8	72.0
Cleveland, Ohio	61.8	61.2	60.4	59.3	58.9	58.4	59.6	61.2	62.7	63.3	64.7	65.3	66.6	66.9	67.3	68.2	69.3	69.5	69.0	68.1	66.4	65.4	64.2	63.4	64.2
Detroit, Mich.....	60.2	59.4	58.4	58.0	57.4	57.2	58.5	60.6	63.1	65.2	67.0	68.2	69.1	70.4	71.4	71.7	71.5	70.7	69.0	67.6	65.2	64.0	62.7	61.6	64.5
Dodge City, Kans.....	67.7	66.6	65.5	64.8	64.0	63.6	63.2	65.1	68.0	71.3	74.3	77.4	80.2	82.3	83.7	84.3	84.3	83.5	81.4	78.7	75.4	72.7	70.4	69.3	73.2
Eastport, Me.....	48.4	48.3	47.6	47.4	47.8	48.9	50.3	52.3	53.9	55.2	56.2	56.9	57.0	56.8	57.3	57.1	56.1	54.8	53.0	52.1	50.9	50.2	49.5	49.1	52.4
Galveston, Tex.....	79.5	79.4	79.2	79.0	78.7	78.4	78.3	79.4	80.0	81.1	82.1	83.1	83.9	84.5	85.0	84.9	84.4	83.7	82.9	81.9	81.3	80.6	80.0	79.7	81.3
Havre, Mont.....	56.8	55.8	54.6	54.1	52.8	51.9	51.1	52.9	55.5	58.1	60.6	63.2	65.8	67.1	69.0	70.1	71.2	71.2	70.7	69.4	68.3	64.9	61.7	59.2	61.5
Kansas City, Mo.....	71.1	70.2	69.3	68.8	68.1	67.6	67.5	68.3	70.4	72.3	74.3	76.5	78.5	80.6	81.9	82.6	83.5	82.9	81.3	78.8	76.6	74.8	73.6	72.3	74.7
Key West, Fla.....	80.0	79.7	79.6	79.7	79.5	79.8	81.2	82.3	83.2	84.0	84.4	84.8	84.4	84.2	84.2	83.8	83.8	83.1	82.6	82.0	81.3	81.1	80.8	80.4	82.1
Memphis, Tenn.....	74.2	73.4	72.3	71.2	70.5	69.8	70.0	72.9	74.9	77.2	79.5	81.7	83.2	84.5	85.7	85.7	86.7	85.9	84.9	83.9	80.8	79.9	78.0	76.2	78.5
New Orleans, La.....	77.8	77.2	76.6	76.0	75.6	75.3	75.2	78.5	81.0	83.0	84.4	85.5	86.3	85.7	86.2	84.8	84.9	85.0	84.6	82.7	81.2	80.1	79.3	78.6	81.1
New York, N. Y.....	60.9	60.2	59.7	59.3	59.2	59.5	60.5	62.3	64.3	66.1	68.0	69.1	69.8	70.2	70.2	70.4	70.0	68.7	67.7	67.0	65.6	64.3	63.4	62.3	64.9
Philadelphia, Pa.....	63.6	63.0	62.1	61.6	61.1	61.7	64.0	66.2	67.9	70.0	71.5	73.0	74.7	75.4	76.0	76.1	75.5	72.9	71.6	70.0	68.1	66.9	66.0	65.0	68.5
Pittsburg, Pa.....	63.2	62.2	61.4	60.9	60.2	60.6	62.2	64.7	67.4	69.7	70.6	72.5	73.3	74.4	75.1	75.8	75.8	75.3	73.5	72.1	69.9	68.1	66.5	65.4	68.4
Portland, Oreg.....	60.2	58.9	57.8	56.9	56.2	55.4	54.3	54.3	54.0	55.7	57.3	58.9	60.5	62.2	63.9	65.1	67.1	67.8	68.0	66.5	66.1	65.1	63.6	62.0	60.7
St. Louis, Mo.....	71.1	70.3	69.5	68.9	68.1	67.5	67.6	69.5	71.5	73.5	75.8	77.7	79.4	80.7	82.2	82.6	82.5	81.4	79.9	78.1	77.1	75.5	73.9	72.6	74.9
St. Paul, Minn.....	60.1	58.9	57.8	56.9	56.2	55.7	56.5	58.1	60.4	62.6	64.7	67.2	69.3	70.6	71.0	71.3	70.6	70.6	70.0	69.3	67.8	65.9	64.2	62.8	64.1
Salt Lake City, Utah..	63.9	62.3	60.6	59.6	58.3	57.4	57.0	58.3	59.8	62.9	65.9	69.2	70.9	72.6	73.9	74.8	75.3	75.2	75.1	75.1	74.0	70.8	68.1	66.3	67.0
San Diego, Cal.....	61.8	61.5	61.0	60.8	60.7	60.4	60.3	60.2	60.0	61.0	62.3	63.7	64.9	65.3	65.8	66.0	66.5	66.2	65.9	65.4	64.4	63.1	62.4	62.2	63.0
San Francisco, Cal....	55.3	54.6	54.3	54.1	53.6	53.6	53.6	53.5	53.9	55.5	57.8	60.1	62.3	63.7	63.0	63.1	62.8	61.9	61.4	60.3	59.1	58.1	56.4	55.8	57.8
Savannah, Ga.....	75.4	74.8	74.4	73.9	73.5	73.7	75.6	79.6	82.2	85.1	87.3	88.5	89.6	89.8	88.8	87.8	85.7	83.7	81.6	80.1	78.8	77.8	77.2	76.7	80.9
Washington, D. C....	63.6	63.2	62.4	61.7	61.1	61.6	64.4	67.1	69.6	71.6	73.2	75.0	76.1	77.4	77.3	76.6	75.6	74.9	73.1	71.1	69.2	67.9	66.4	65.7	69.4

TABLE VI.—*Mean pressure for each hour of seventy-fifth meridian time, June, 1897.*

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.
Bismarck, N. Dak...	28.136	.138	.136	.136	.141	.144	.151	.155	.159	.158	.153	.149	.145	.137	.127	.119	.108	.102	.097	.099	.104	.113	.123	.129	.132
Boston, Mass.....	29.795	.791	.784	.782	.790	.799	.807	.805	.802	.799	.793	.784	.774	.766	.763	.761	.759	.764	.773	.783	.795	.797	.799	.798	.786
Buffalo, N. Y.....	29.129	.129	.125	.130	.137	.147	.154	.159	.164	.163	.161	.157	.149	.143	.136	.130	.126	.123	.123	.124	.131	.132	.133	.130	.139
Chicago, Ill.....	29.092	.086	.085	.086	.096	.109	.116	.126	.127	.125	.119	.118	.115	.108	.102	.096	.092	.084	.083	.079	.082	.091	.092	.093	.100
Cincinnati, Ohio ...	29.332	.329	.330	.328	.333	.346	.351	.357	.365	.361	.362	.357	.348	.337	.328	.315	.308	.302	.303	.309	.316	.325	.332	.331	.333
Cleveland, Ohio	29.160	.158	.158	.160	.168	.174	.184	.194	.203	.202	.201	.196	.188	.181	.168	.159	.152	.148	.146	.148	.152	.157	.161	.157	.170
Detroit, Mich.....	29.193	.192	.191	.193	.204	.208	.217	.221	.222	.222	.218	.211	.207	.199	.189	.184	.181	.174	.175	.177	.186	.192	.194	.194	.198
Dodge City, Kans..	27.308	.307	.304	.302	.304	.306	.318	.328	.333	.335	.334	.330	.324	.314	.300	.286	.273	.262	.258	.267	.277	.287	.302	.312	.303
Eastport, Me.....	29.800	.801	.803	.807	.813	.819	.824	.826	.824	.823	.817	.811	.802	.794	.791	.786	.784	.789	.795	.801	.809	.810	.810	.806	.806
Galveston, Tex.....	29.990	.983	.979	.977	.977	.983	.992	.995	.998	.999	.014	.016	.016	.006	.995	.980	.970	.960	.955	.956	.961	.978	.989	.996	.987
Havre, Mont.....	27.243	.247	.248	.246	.245	.249	.257	.260	.261	.261	.260	.260	.253	.247	.243	.234	.226	.221	.216	.215	.226	.234	.245	.247	.244
Kansas City, Mo....	28.928	.932	.927	.925	.931	.944	.948	.957	.962	.961	.959	.954	.946	.934	.923	.910	.897	.889	.889	.893	.891	.909	.920	.928	.927
Key West, Fla.....	30.041	.033	.023	.019	.021	.028	.039	.052	.057	.060	.061	.061	.053	.041	.030	.022	.017	.018	.029	.039	.051	.057	.060	.052	.040
Memphis, Tenn.....	29.575	.568	.564	.567	.576	.584	.601	.613	.624	.624	.626	.627	.615	.604	.586	.569	.552	.540	.537	.540	.545	.556	.571	.578	.581
New Orleans, La....	29.959	.953	.952	.953	.958	.968	.982	.993	.997	.998	.990	.986	.977	.967	.953	.942	.933	.926	.928	.934	.944	.952	.957	.960	.961
New York, N. Y....	29.629	.624	.621	.623	.628	.636	.641	.645	.640	.637	.631	.623	.614	.606	.597	.591	.591	.594	.600	.608	.622	.631	.633	.631	.621
Philadelphia, Pa....	29.843	.839	.837	.840	.847	.852	.861	.868	.867	.865	.859	.848	.836	.827	.817	.811	.808	.812	.818	.822	.836	.840	.844	.845	.839
Pittsburg, Pa.....	29.093	.092	.091	.093	.098	.107	.116	.119	.122	.121	.120	.114	.103	.094	.082	.077	.074	.072	.073	.079	.084	.089	.090	.090	.096
Portland, Oreg.....	29.839	.841	.846	.847	.847	.848	.849	.853	.855	.857	.859	.860	.857	.854	.845	.840	.831	.826	.819	.813	.811	.813	.818	.826	.840
St. Louis, Mo.....	29.380	.378	.379	.380	.385	.396	.409	.417	.417	.420	.415	.409	.401	.390	.376	.366	.359	.353	.352	.350	.350	.363	.375	.376	.383
St. Paul, Minn.....	29.016	.013	.015	.019	.018	.023	.029	.029	.034	.033	.030	.026	.016	.005	.999	.993	.986	.983	.980	.978	.980	.991	.000	.005	.008
Salt Lake City, Utah	25.559	.562	.566	.567	.570	.572	.583	.590	.601	.606	.610	.609	.603	.598	.585	.574	.563	.555	.546	.543	.545	.548	.557	.564	.574
San Diego, Cal.....	29.836	.833	.825	.818	.812	.811	.812	.818	.826	.835	.843	.846	.849	.848	.843	.839	.834	.829	.820	.812	.813	.817	.824	.835	.828
San Francisco, Cal..	29.811	.808	.805	.802	.799	.799	.800	.803	.813	.821	.828	.831	.831	.831	.827	.820	.811	.803	.795	.787	.788	.791	.798	.809	.809
Savannah, Ga.....	29.913	.906	.902	.905	.914	.923	.934	.941	.945	.945	.940	.930	.913	.897	.883	.872	.871	.874	.897	.905	.916	.923	.923	.921	.912
Washington, D. C...	29.863	.862	.860	.861	.870	.878	.885	.889	.889	.892	.889	.881	.866	.854	.842	.838	.836	.835	.839	.847	.857	.863	.866	.863	.864

TABLE VII.—*Average wind movement for each hour of seventy-fifth meridian time, June, 1897.*

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	9.8	10.1	10.7	10.2	10.5	11.1	11.3	10.9	12.1	14.1	14.7	14.0	14.3	14.3	14.3	14.4	14.0	14.5	14.3	13.1	10.4	9.2	9.0	9.2	12.1
Albany, N. Y	4.9	5.1	5.0	4.7	4.7	5.0	5.8	6.8	7.5	8.9	9.7	10.4	11.0	12.0	11.8	11.8	11.4	10.5	8.5	7.9	6.8	5.9	5.5	5.3	7.8
Alpena, Mich	6.3	6.2	6.5	5.8	5.9	6.1	7.1	7.8	7.8	8.2	8.8	9.6	10.0	10.1	10.8	11.4	10.9	10.2	8.9	7.7	6.1	6.3	6.0	6.1	7.9
Amarillo, Tex	16.8	15.7	15.1	14.4	14.1	13.9	13.4	13.1	14.8	17.7	18.2	18.0	17.1	16.0	16.7	17.3	18.8	19.9	20.1	19.6	14.8	16.9	17.1	16.9	16.5
Atlanta, Ga	7.5	7.5	7.3	7.8	7.4	6.6	6.9	7.3	7.6	7.2	7.4	8.2	8.4	9.5	9.6	9.8	9.2	8.8	7.9	6.8	6.8	7.6	7.3	7.4	7.8
Atlantic City, N. J	9.0	8.7	9.0	8.9	8.5	8.6	9.1	10.2	10.6	10.8	11.6	12.5	13.0	12.7	13.7	13.5	12.6	11.3	10.8	9.2	8.5	8.8	8.9	8.7	10.4
Augusta, Ga	4.2	4.2	3.9	3.6	3.3	3.0	3.6	4.9	5.4	5.5	6.3	6.5	6.6	7.0	7.0	8.1	8.3	7.5	6.6	6.8	4.8	4.8	4.6	4.3	5.4
Baker City, Oreg	4.0	3.9	4.7	4.8	5.6	5.4	4.8	5.7	5.3	4.3	3.7	4.0	4.6	5.4	6.6	6.9	7.5	7.4	7.7	8.1	7.6	6.1	4.7	4.2	5.6
Baltimore, Md	3.2	3.3	2.9	2.6	3.3	3.3	4.0	4.6	5.2	6.4	6.6	7.0	6.9	6.8	7.2	6.5	6.7	6.2	5.4	4.2	3.8	3.2	3.3	2.8	4.8
Bismarck, N. Dak	7.1	6.3	6.6	6.0	6.8	6.5	6.7	7.6	8.6	9.7	10.6	11.9	12.3	12.8	13.5	12.9	12.6	12.4	11.3	10.3	9.5	7.8	7.6	7.0	9.3
Block Island, R. I	12.9	12.9	12.9	12.5	12.0	11.9	12.4	13.1	13.4	13.8	15.3	16.2	16.8	17.3	17.8	17.9	16.9	15.9	15.0	15.5	15.0	13.9	13.8	13.8	14.5
Boston, Mass	9.6	8.9	9.2	9.0	9.1	9.2	10.0	9.8	10.5	11.2	12.3	12.7	13.0	13.8	14.4	14.9	14.3	12.8	11.4	11.0	10.2	10.3	9.8	9.1	11.1
Buffalo, N. Y	10.3	10.7	10.7	10.2	10.3	9.7	9.6	10.7	11.1	12.2	12.1	12.0	13.1	13.7	13.9	14.3	13.5	13.0	12.4	10.8	10.3	10.1	9.9	9.8	11.4
Cairo, Ill	5.8	6.1	6.8	6.5	5.4	5.3	4.8	5.1	5.8	6.5	7.4	7.4	8.3	8.6	8.2	8.4	8.6	8.3	7.3	6.5	6.0	6.3	6.0	6.4	6.7
Cape Henry, Va	9.4	9.6	10.7	10.7	10.7	11.7	13.0	12.8	12.6	12.1	11.9	12.0	12.3	11.5	11.3	11.0	10.5	10.1	11.1	10.3	10.6	10.7	10.7	10.1	11.1
Carson City, Nev	6.1	5.4	5.4	5.8	5.7	5.3	5.0	3.9	3.5	3.4	4.5	5.5	6.9	8.8	10.0	10.9	12.8	13.7	14.6	14.5	14.4	12.2	11.0	8.3	8.2
Charleston, S. C	7.8	7.5	6.7	6.7	7.3	6.9	7.6	8.5	9.4	9.5	9.8	10.4	11.5	12.0	12.8	12.9	12.8	12.1	10.9	11.2	10.5	8.9	8.4	8.1	9.6
Charlotte, N. C	4.7	5.0	5.0	5.0	4.6	5.3	5.3	5.8	6.8	6.5	6.3	6.1	6.1	6.7	7.2	7.6	7.5	5.7	5.4	5.1	5.2	5.1	5.1	5.0	5.8
Chattanooga, Tenn	3.8	4.0	3.7	3.8	4.2	3.7	3.8	4.2	5.7	7.5	7.5	7.8	8.8	9.6	8.5	9.5	9.3	9.5	8.0	6.9	5.3	4.2	4.5	4.2	6.2
Cheyenne, Wyo	7.1	7.8	7.8	8.0	8.3	7.6	8.0	7.6	8.3	9.7	10.9	11.2	12.5	12.2	11.6	11.9	12.2	12.6	13.1	12.3	10.1	8.1	7.8	7.7	9.8
Chicago, Ill	13.7	15.0	15.5	15.8	14.4	14.5	15.0	14.2	14.8	16.1	15.6	17.0	16.6	15.9	16.1	16.2	15.7	15.6	15.2	14.2	13.5	13.3	14.0	13.7	15.1
Cincinnati, Ohio	4.5	4.6	4.5	4.3	4.4	4.0	4.4	5.4	6.4	7.7	8.3	9.1	9.0	9.4	10.3	10.3	10.4	9.2	8.6	7.7	6.9	5.4	5.0	5.0	6.9
Cleveland, Ohio	10.8	11.2	10.7	11.3	11.4	11.0	10.5	11.2	10.7	11.3	11.8	12.9	13.1	12.8	12.3	11.9	11.1	10.7	10.0	9.2	9.5	10.3	10.6	10.8	11.1
Columbia, Mo	6.4	6.7	6.5	6.2	6.2	5.9	5.7	5.8	6.6	6.8	7.7	8.3	8.2	8.5	8.5	8.2	8.3	7.8	6.6	6.0	6.0	6.1	6.2	6.2	6.9
Columbus, Ohio	3.8	4.1	3.6	3.8	3.2	4.1	4.2	4.9	6.1	6.6	7.9	8.4	8.9	9.3	9.5	8.9	9.2	8.2	7.5	6.2	5.4	5.1	5.1	4.2	6.2
Concordia, Kans	7.6	6.5	6.0	5.3	5.6	6.0	6.4	6.9	7.9	9.0	9.7	9.6	9.0	9.3	9.8	10.0	9.7	9.9	10.4	8.9	7.5	7.5	6.9	7.1	8.0
Corpus Christi, Tex	16.0	14.4	14.0	13.3	12.0	10.4	9.5	9.6	10.5	12.0	12.9	13.6	14.4	14.5	15.3	16.4	17.5	18.0	18.5	17.9	18.0	17.6	17.1	15.7	14.5
Davenport, Iowa	6.0	5.8	6.2	5.5	5.0	5.2	6.0	6.7	8.1	8.1	8.5	8.3	9.1	9.1	9.6	10.0	9.2	8.8	8.6	6.9	6.0	5.7	5.3	5.4	7.2
Denver, Colo	6.9	6.5	6.6	6.4	6.6	6.7	6.7	6.4	5.3	6.0	6.5	6.9	8.0	8.5	9.4	10.0	10.1	11.2	11.8	11.6	9.6	7.3	7.3	7.1	7.9
Des Moines, Iowa	6.2	6.2	6.7	6.7	6.6	6.1	6.2	6.5	7.7	8.9	9.6	9.5	9.6	10.3	10.1	10.4	10.3	9.7	8.9	7.9	6.7	6.0	6.3	5.8	7.9
Detroit, Mich	6.2	6.1	6.3	6.6	6.7	7.1	7.1	7.1	7.8	8.6	8.9	9.8	10.5	10.7	10.6	10.4	10.5	10.0	8.9	7.5	6.6	6.7	6.9	6.5	8.1
Dodge City, Kans	12.1	10.7	9.5	9.4	9.1	8.6	8.2	8.8	10.9	12.6	14.0	14.2	14.3	15.6	16.8	17.5	17.8	18.0	18.1	16.0	13.2	13.3	13.4	13.2	13.1
Dubuque, Iowa	5.7	5.4	6.0	5.4	5.6	5.5	5.3	6.2	6.7	6.9	7.7	7.4	7.9	8.0	8.1	8.4	8.6	8.3	7.5	6.2	5.1	5.5	5.8	5.4	6.6
Duluth, Minn	7.6	7.9	8.1	8.6	8.0	7.8	8.1	7.9	8.6	9.0	9.5	10.0	10.0	10.7	10.4	10.4	10.5	10.1	9.2	8.5	7.5	7.7	7.7	8.1	8.8
Eastport, Me	6.3	6.6	6.9	6.8	6.5	7.5	7.9	8.0	8.7	8.6	9.5	10.5	10.7	11.8	12.3	11.2	10.6	9.8	9.2	8.1	8.0	6.9	6.9	6.4	8.6
El Paso, Tex	11.7	11.0	10.7	10.2	11.0	10.7	11.1	10.1	9.8	10.2	10.3	10.9	10.3	10.6	10.6	10.8	11.8	12.1	13.2	12.7	12.6	11.1	9.8	10.2	11.0
Erie, Pa	7.3	7.3	8.2	8.6	8.7	8.6	8.7	9.2	10.4	10.3	10.0	10.0	10.0	10.0	10.2	10.3	8.8	7.9	7.0	6.3	6.2	6.4	6.9	6.5	8.5
Eureka, Cal	5.1	4.2	4.0	3.6	3.7	3.6	3.3	3.7	3.7	3.7	4.3	5.7	7.2	9.2	9.8	10.6	11.1	11.3	10.9	10.5	9.9	9.1	7.4	6.0	6.7
Fort Canby, Wash	9.6	9.3	9.4	8.9	9.3	9.0	8.9	8.9	9.1	8.4	8.5	8.9	8.6	9.3	10.2	11.4	12.4	12.2	12.4	11.9	12.3	12.1	11.6	11.7	10.2
Fort Smith, Ark	4.5	4.5	5.2	5.0	5.3	5.1	4.8	5.1	5.8	6.4	7.2	7.3	7.7	8.0	8.9	8.9	8.2	7.6	6.6	5.4	4.7	4.7	4.6	4.9	6.1
Fresno, Cal	11.6	11.3	10.6	9.1	8.1	7.2	6.6	6.0	5.5	6.0	6.6	6.3	5.9	5.6	5.7	6.1	6.6	6.9	7.4	8.0	9.1	10.1	10.8	11.1	7.8
Galveston, Tex	11.0	11.7	11.2	11.0	10.5	9.7	9.7	9.7	10.5	10.8	11.3	11.0	11.7	11.7	11.8	11.9	12.5	11.7	12.0	12.0	10.9	11.5	11.2	11.1	11.2
Grand Haven, Mich	7.9	7.8	8.0	7.6	7.1	6.9	7.4	8.0	8.5	8.4	9.5	10.4	10.5	11.4	11.2	11.4	9.8	8.6	8.0	6.7	6.2	5.7	6.4	7.1	8.4
Greenbay, Wis	6.0	5.6	5.4	5.7	5.5	5.2	5.3	6.2	7.0	7.5	7.7	8.0	8.2	8.5	8.6	8.6	8.9	8.6	8.4	7.3	6.1	6.7	6.4	5.7	7.0
Hannibal, Mo	8.1	7.2	7.2	6.7	6.9	7.2	7.4	7.5	8.7	9.4	10.2	11.5	11.8	11.4	11.6	11.1	11.8	11.0	10.5	9.3	7.6	7.4	7.6	8.4	9.1
Harrisburg, Pa	4.6	4.0	4.1	4.2	4.1	4.2	4.5	5.2	6.2	6.9	7.3	7.8	8.7	9.2	9.5	9.3	8.6	8.1	7.0	5.9	5.6	5.2	5.0	4.8	6.2
Hatteras, N. C	9.2	9.1	9.2	9.3	9.5	9.4	10.9	11.7	11.6	12.2	12.1	11.8	12.4	12.5	12.8	12.5	12.6	12.2	11.9	10.9	10.4	10.0	9.5	9.6	11.0
Havre, Mont	7.3	7.2	8.3	7.4	7.7	7.4	6.9	7.0	7.9	9.0	9.8	9.8	10.4	10.9	10.9	11.9	11.9	12.3	11.9	12.3	11.8	11.9	10.6	9.3	9.7
Helena, Mont	8.4	7.5	7.1	6.3	6.8	7.0	6.4	5.7	4.7	5.4	5.7	6.5	7.5	7.4	8.2	8.2	9.1	9.7	10.1	9.7	9.4	9.3	9.3	8.9	7.7
Huron, S. Dak	9.3	8.8	8.6	8.3	8.8	9.2	8.5	8.7	10.1	11.6	11.9	12.2	13.2	13.2	13.6	13.5	13.6	13.7	12.5	11.5	9.5	9.0	9.7	9.3	10.8
Idaho Falls, Idaho	9.2	11.6	10.6	10.4	9.1	8.6	8.6	8.4	8.1	9.0	10.1	11.9	12.4	12.5	14.3	15.7	16.4	16.7	16.2	17.0	14.7	11.6	11.9	10.2	11.9
Indianapolis, Ind	6.7	7.0	6.8	7.4	7.1	6.5	6.5	7.4	8.5	10.2	10.7	10.6	11.2	11.9	12.5	12.3	11.8	11.5	10.2	8.3	7.6	7.8	6.9	6.6	8.9
Jacksonville, Fla	7.0	6.7	6.5	5.7	5.4	5.2	5.8	6.4	6.8	6.6	6.4	6.5	7.1	7.8	8.6	8.5	9.4	9.6	9.3	7.9	8.3	7.8	6.9	7.1	7.2
Jupiter, Fla	5.4	4.9	4.6	4.0	4.1	3.9	3.8	5.5	6.7	7.6	7.8	8.7	9.6	9.8	9.5	9.5	9.6	9.9	8.4	7.0	7.1	7.0	6.7	6.2	7.0
Kansas City, Mo	7.6	8.0	7.9	7.6	7.3	6.4	5.9	6.8	7.9	8.6	8.9	9.5	10.0	10.1	10.5	10.7	10.8	10.2	9.0	9.0	7.9	7.7	7.9	7.6	8.5
Keokuk, Iowa	6.6	6.4	6.6	6.7	6.7	6.8	6.3	6.7	7.8	8.0	8.4	8.9	9.0	9.8	9.8	9.3	8.7	8.7	8.5	7.5	5.9	5.3	6.3	6.1	7.5
Key West, Fla	5.1	4.7	4.7	4.6	4.4	4.7	4.8	5.8	6.2	6.6	6.8	7.0	7.0	7.7	7.3	7.3	6.9	6.7	6.0	5.3	5.4	5.9	5.6	5.3	5.9
Kittyhawk, N. C	10.5	10.4	11.4	11.4	12.3	12.6	13.6	13.7	13.5	13.7	13.1	13.3	14.1	14.1	14.0	14.6	14.4	14.1	13.8	13.1	13.2	12.5	11.2	11.1	12.9
Knoxville, Tenn	2.4	2.6	2.7	2.9	2.8	2.6	3.2	4.1	4.6	5.3	5.8	6.9	6.9	6.9	7.5	7.0	6.5	6.5	5.5	4.5	3.1	2.7	2.9	2.6	4.5
La Crosse, Wis	5.3	4.9	5.3	5.0	4.9	4.5	4.6	6.3	6.1	6.2	6.4	7.3	7.8	8.1	7.7	7.8	8.0	7.6	7.3	7.0	5.7	5.3	5.3	5.9	6.3
Lander, Wyo	4.2	4.7	3.7	3.4	3.7	3.8	3.2	3.0	3.3	3.3	3.8	5.8	7.0	7.3	7.8	8.3	8.7	9.8	9.9	9.8	7.7	6.3	6.0	5.5	5.8
Lexington, Ky	8.4	8.8	8.8	8.2	8.8	9.0	9.0	8.9	9.2	9.2	10.3	11.0	11.2	11.1	11.6	11.2	11.0	10.7	8.5	8.1	8.4	8.7	8.6	8.5	9.5
Little Rock, Ark	3.0	4.4	3.7	3.2	4.0	3.7	4.8	5.5	6.2	7.2	8.1	7.8	8.3	8.9	9.4	9.4	9.7	9.5	8.1	6.5	5.0	4.3	3.7	3.6	6.2
Los Angeles, Cal	2.9	2.8	2.7	2.1	1.9	1.8	1.8	2.0	2.2	2.7	2.9	3.3	3.8	5.0	6.6	8.3	9.9	9.9	9.1	8.8	7.6	6.1	4.7	3.3	4.7
Louisville, Ky	5.6	5.9	6.1	5.3	5.4	5.5	5.7	6.8	7.0	7.5	9.1	8.9	9.6	10.3	10.2	10.5	10.3	9.7	8.8	7.5	6.5	5.7	5.3	5.2	7.4
Lynchburg, Va	1.8	1.8	1.9	1.5	1.6	1.8	2.1	3.2	4.3	5.3	5.8	5.5	6.1	5.9	6.1	6.2	5.9	5.2	4.6	3.5	2.6	2.5	2.4	2.1	3.7
Marquette, Mich	6.5	7.0	7.2	6.9	6.5	5.5	6.4	7.3	7.1	7.7	8.1	8.9	9.5	8.6	8.6	9.0	8.1	7.1	6.1	5.9	5.4	5.7	6.0	6.4	7.1
Memphis, Tenn	7.4	7.5	7.3	8.1	7.4	6.7	6.4	6.7	7.5	7.1	8.0	9.1	9.9	9.3	10.1	10.6	9.9	9.0	8.4	7.0	6.7	5.8	6.5	7.8	7.9
Milwaukee, Wis	6.7	7.1	7.2	7.5	7.9	7.3	7.4	8.2	9.6	9.3	9.4	9.7	10.4	10.7	10.8	10.2	9.8	8.5	8.3	7.3	6.1	6.2	5.9	6.3	8.2
Mobile, Ala	4.3	4.2	4.1	4.2	3.9	3.7	3.6	4.2	5.6	5.6	6.6	7.7	9.2	10.0	11.6	12.9	12.6	11.5	9.7	7.7	6.1	5.4	5.1	4.8	6.8
Montgomery, Ala	5.2	4.8	4.2	4.2	4.5	4.2	3.4	4.6	5.6	5.9	5.6	5.9	6.4	6.7	7.8	7.5	7.7	8.3	7.2	6.2	5.9	5.3	4.7	4.8	5.7
Moorhead, Minn	8.6	8.2	7.9	8.3	8.0	7.8	8.0	8.8	9.0	10.0	11.2	11.5	11.7	11.6	12.7	12.7	12.5	12.1	11.5	10.6	9.1	8.1	8.2	8.3	9.8
Nantucket, Mass	10.8	10.7	10.2	9.8	9.9	10.4	10.7	11.7	11.7	11.6	12.0	12.2	11.8	12.1	11.8	11.2	11.1	11.0	10.3	10.0	10.6	10.3	10.6	10.8	11.0
Nashville, Tenn	3.2	3.2	3.7	4.1	4.1	3.9	3.6	4.6	5.6	6.7	7.8	8.5	8.5	8.6	8.4	9.2	8.6	8.5	8.5	6.4	5.3	4.7	4.1	3.7	6.0
New Haven, Conn	6.6	6.1	6.3	6.2	5.3	4.9	5.7	6.9	7.7	8.7	10.7	10.7	11.3	11.7	12.1	12.6	12.6	11.5	9.8	8.0	8.2	7.7	6.3	5.9	8.5
New Orleans, La	5.6	5.6	5.7	5.6	4.8	4.2	4.4	4.4	6.5	7.2	7.3	7.2	8.0	8.2	8.4	8.3	8.9	9.0	9.0	7.4	6.9	6.7	6.3	5.9	6.7
New York, N. Y	10.8	10.1	10.4	9.4	10.2	9.4	9.5	10.1	10.9	11.7	12.9	14.0	14.3	14.5	15.3	16.7	16.8	16.6	15.2	14.4	13.6	12.7	12.2	11.0	12.6
Norfolk, Va	6.2	6.6	6.8	6.6	6.1	6.4	7.2	7.5	8.2	8.2	8.0	8.1	8.3	8.6	8.4	8.9	8.2	8.1	8.4	6.8	6.5	6.6	6.6	6.7	7.4
Northfield, Vt	5.7	5.1	5.6	5.5	5.3	4.3	5.8	7.6	9.1	10.8	12.5	12.4	13.3	13.0	12.1	11.7	11.2	10.4	7.3	6.3	5.8	6.1	6.5	6.4	8.3
North Platte, Nebr	8.6	8.2	8.1	8.3	8.1	7.5	7.0	6.9	7.9	9.5	10.5	10.5	11.9	12.4	11.6	11.7	12.3	12.7	12.6	12.3	10.1	9.0	8.9	7.8	9.8
Oklahoma, Okla	10.1	10.2	9.9	10.1	10.3	9.6	9.3	10.5	12.8	14.6	15.2	15.4	14.9	15.8	15.8	16.0	16.0	16.2	14.9	12.9	10.2	9.6	10.2	10.7	12.5
Omaha, Nebr	7.4	7.4	7.8	7.2	7.1	6.7	7.3	8.0	8.3	9.1	10.0	10.3	10.6	10.7	10.8	10.2	10.5	10.0	9.5	9.1	7.7	7.1	7.1	7.6	8.6
Oswego, N. Y	7.1	7.0	8.0	8.3	9.0	8.8	9.3	9.8	10.3	10.5	10.0	9.6	10.2	10.1	10.3	9.9	9.7	8.8	8.2	7.3	7.4	7.3	7.2	6.7	8.8
Palestine, Tex	5.3	5.2	5.0	4.9	4.8	4.6	4.1	4.9	6.6	7.3	7.7	7.3	7.2	7.9	7.6	7.6	7.2	7.4	6.7	5.9	4.4	5.1	5.7	5.8	6.1
Parkersburg, W. Va	3.8	3.7	3.5	3.2	3.1	3.3	3.2	4.3	5.0	5.3	5.8	6.6	6.9	7.0	7.7	7.4	7.2	5.9	5.4	4.4	3.7	3.3	3.8	4.0	4.9

TABLE VII.—*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.
Pensacola, Fla	6.6	6.4	6.0	6.0	5.7	5.4	5.4	5.5	6.9	7.0	7.8	9.1	10.2	11.5	12.9	14.7	14.1	14.9	13.9	11.8	9.1	8.6	7.9	7.4	9.0
Philadelphia, Pa	7.8	8.5	8.0	7.4	7.4	7.7	8.3	10.4	10.2	10.4	11.1	11.3	12.4	13.4	13.8	13.3	13.0	12.9	10.2	9.6	9.4	9.1	8.3	8.0	10.1
Phœnix, Ariz	3.5	3.2	3.2	3.1	3.3	3.7	4.0	4.7	4.5	4.6	4.4	4.2	3.9	4.4	5.1	5.5	6.2	6.7	7.0	6.5	5.1	4.8	4.4	3.4	4.6
Pierre, S. Dak	9.3	8.5	8.3	7.4	7.7	6.9	7.5	7.6	8.0	9.3	9.8	10.3	11.5	11.7	11.2	10.6	11.6	11.2	11.1	10.6	9.7	9.1	8.8	8.9	9.4
Pittsburg, Pa	3.4	3.4	3.1	3.4	3.4	3.6	4.3	5.0	6.1	6.4	6.9	6.8	7.2	8.2	8.0	8.0	8.3	7.3	5.8	5.2	4.8	4.7	4.3	3.4	5.5
Port Angeles, Wash	6.2	5.9	6.0	6.4	6.2	5.7	5.0	5.4	5.3	4.9	6.4	7.3	8.2	8.6	8.6	9.0	9.8	10.8	11.4	10.7	10.6	9.5	8.2	6.8	7.6
Port Huron, Mich	7.2	7.7	7.3	8.4	8.0	8.0	7.9	8.6	8.8	9.3	9.9	10.2	10.7	11.3	11.1	10.9	9.9	9.5	8.1	7.3	7.1	6.7	7.2	7.1	8.6
Portland, Me	4.8	5.0	5.6	5.2	4.9	5.6	5.9	6.7	7.2	7.3	8.3	9.0	9.0	10.2	10.1	9.6	8.7	7.6	6.7	5.4	4.8	5.2	5.5	5.1	6.8
Portland, Oreg	7.4	7.4	6.2	6.0	5.5	4.3	4.8	4.9	4.6	5.5	6.3	6.8	8.1	7.7	7.7	8.2	8.2	8.4	8.3	9.2	9.2	9.7	8.8	8.2	7.1
Pueblo, Colo	5.5	6.0	5.0	4.9	4.5	4.2	4.2	3.9	4.5	4.4	5.0	6.2	6.9	7.7	8.4	10.2	11.0	12.3	14.7	13.0	11.8	9.5	7.3	6.1	7.4
Raleigh, N. C	4.8	5.0	4.6	4.5	4.4	5.0	5.3	6.1	7.1	6.7	6.7	6.4	7.0	6.9	7.0	7.5	7.3	6.8	5.8	5.4	5.1	5.3	5.3	5.2	5.9
Rapid City, S. Dak	6.3	5.5	5.7	5.0	5.3	6.2	5.4	5.2	5.9	7.5	8.7	9.7	10.9	10.6	9.8	9.7	9.4	9.2	9.8	8.2	7.8	6.8	6.2	6.3	7.5
Redbluff, Cal	6.5	6.4	6.2	5.8	5.6	5.2	5.2	5.4	5.6	6.3	8.3	8.9	8.8	8.7	8.6	8.7	7.9	7.8	7.2	7.3	7.3	6.5	6.4	6.5	7.0
Rochester, N. Y	5.8	5.6	5.4	5.7	5.7	5.8	6.4	7.0	7.5	7.8	8.3	8.5	8.8	9.2	9.1	9.5	9.5	8.2	7.2	5.9	5.5	5.5	5.5	5.4	7.0
Roseburg, Oreg	2.5	2.5	2.0	2.1	1.9	2.1	1.6	1.8	1.8	2.2	2.8	3.2	3.7	4.3	4.8	5.4	6.4	6.9	6.8	7.6	7.6	6.4	5.1	3.3	4.0
Sacramento, Cal	8.9	8.2	7.8	8.0	8.1	7.0	7.0	6.3	6.8	6.6	6.8	7.7	8.0	8.9	9.3	10.4	11.1	11.1	11.8	11.8	11.1	10.6	10.4	9.4	8.9
St. Louis, Mo	7.6	8.2	7.2	8.1	7.7	7.2	7.5	8.0	8.4	9.4	9.0	9.7	10.6	10.4	10.2	10.8	10.6	10.0	9.2	8.5	7.7	7.4	7.4	7.7	8.7
St. Paul, Minn	5.5	5.7	5.4	5.2	5.0	5.2	5.4	6.4	6.3	7.5	7.4	7.4	8.1	8.6	8.8	9.0	9.0	8.2	7.6	7.1	6.0	5.4	6.1	6.0	6.8
Salt Lake City, Utah	6.1	4.8	4.9	5.0	4.7	4.8	5.0	3.8	3.6	3.8	4.5	6.3	8.4	8.7	9.1	10.0	9.8	9.8	8.5	7.5	7.1	6.5	6.5	6.3	6.5
San Antonio, Tex	10.1	9.1	8.3	7.2	6.5	6.4	5.6	6.0	7.8	8.8	9.7	9.2	10.1	10.6	10.9	11.4	11.3	11.6	11.8	12.6	13.7	13.7	11.9	11.5	9.9
San Diego, Cal	3.1	3.5	3.6	3.3	3.9	4.1	3.5	3.6	3.9	4.2	4.1	6.0	8.0	9.3	10.3	10.7	10.6	10.1	9.2	8.5	7.6	5.9	4.5	3.7	6.0
Sandusky, Ohio	6.0	6.4	6.8	6.6	6.4	6.7	7.1	7.0	7.1	7.8	8.3	9.0	9.1	9.4	9.3	8.9	8.3	7.6	7.3	6.9	6.3	6.8	6.6	6.2	7.4
San Francisco, Cal	12.4	11.8	11.0	9.1	9.4	7.6	7.5	6.6	6.4	6.8	8.4	8.3	10.1	12.7	16.8	19.1	22.0	22.0	23.0	22.5	21.7	19.4	17.2	14.6	13.6
San Luis Obispo, Cal	3.1	2.9	2.2	2.3	2.4	2.7	2.9	3.2	3.1	4.0	4.8	5.4	6.7	7.4	8.8	9.2	9.1	9.5	8.8	8.4	7.8	6.7	4.7	4.0	5.4
Santa Fe, N. Mex	6.1	6.7	6.0	5.7	5.2	4.7	4.5	4.1	4.4	4.4	5.8	7.2	8.8	9.1	9.6	10.5	10.9	11.0	11.9	9.9	9.0	6.4	6.1	6.8	7.3
Sault Ste Marie, Mich	5.7	5.5	4.9	4.4	4.7	4.9	4.9	5.6	6.0	7.3	8.4	10.3	11.6	12.5	13.2	13.4	12.5	11.2	10.0	8.4	7.4	6.6	6.8	5.7	8.0
Savannah, Ga	5.3	5.6	5.4	5.3	5.3	5.0	5.2	6.1	6.8	6.9	7.3	7.4	7.9	8.8	10.3	10.2	10.4	9.3	8.8	8.0	6.8	7.0	6.7	5.7	7.1
Seattle, Wash	3.8	3.0	3.6	3.6	3.7	3.5	3.8	3.3	3.2	4.0	4.9	5.4	5.9	5.6	5.8	5.8	6.0	6.3	6.2	6.5	6.3	5.8	4.9	4.0	4.8
Shreveport, La	6.2	5.8	5.3	5.1	4.8	4.3	4.2	4.6	5.8	6.2	6.8	7.1	7.1	7.1	7.3	7.6	8.1	7.9	7.6	6.6	5.2	6.1	6.3	6.3	6.2
Sioux City, Iowa	11.6	11.4	10.8	10.1	10.6	10.3	10.0	10.3	11.3	13.1	13.2	13.3	13.4	13.3	14.8	14.5	14.0	13.2	12.1	11.7	11.0	11.6	11.9	11.9	12.1
Spokane, Wash	5.9	5.5	4.9	5.3	4.8	4.9	5.1	5.8	6.2	6.7	7.1	7.5	8.7	8.9	9.2	9.1	8.7	8.3	8.2	8.2	8.6	7.4	7.1	6.1	7.0
Springfield, Ill	7.4	7.7	7.7	8.0	8.3	7.6	8.0	8.8	9.3	9.9	10.5	10.9	10.9	10.8	10.5	11.1	11.0	10.1	9.4	8.4	7.2	7.7	7.3	7.2	9.0
Springfield, Mo	8.5	8.0	8.4	9.4	9.0	8.4	7.6	8.2	9.2	9.6	10.1	11.2	12.1	11.3	10.4	10.7	9.8	10.4	9.5	8.4	7.9	9.1	8.7	8.9	9.4
Tacoma, Wash	5.7	5.1	4.8	4.7	4.6	4.7	4.3	4.5	4.1	4.8	5.6	6.8	7.0	7.4	8.0	7.7	7.6	7.2	7.4	6.9	7.0	6.6	5.5	5.6	6.0
Tampa, Fla	3.5	3.8	3.3	3.8	3.4	2.9	3.4	4.3	5.3	6.0	6.6	6.7	7.9	8.9	8.9	9.3	9.0	8.2	7.3	5.5	5.1	4.2	4.0	3.6	5.6
Tatoosh Island, Wash	7.4	10.2	10.1	10.1	9.8	9.6	8.8	9.9	9.7	9.6	10.4	10.8	10.5	10.9	9.9	10.9	11.0	9.7	9.6	10.3	10.5	9.2	8.3	7.0	9.8
Toledo, Ohio	7.1	6.7	6.3	6.2	6.8	6.6	7.1	7.4	8.2	8.6	9.7	10.4	10.9	11.2	11.3	11.3	10.4	10.1	9.2	7.7	6.8	6.8	6.7	6.9	8.4
Vicksburg, Miss	4.9	4.5	4.8	3.9	3.9	3.8	3.6	3.8	4.3	5.0	5.5	5.6	5.9	6.0	6.2	6.6	6.2	6.0	5.1	5.3	4.4	4.2	4.0	4.4	4.9
Vineyard Haven, Mass	7.9	7.6	7.1	7.3	7.6	7.9	8.6	8.9	9.2	9.6	10.0	10.2	10.6	11.1	11.0	10.9	10.3	9.9	9.4	9.1	9.0	9.0	9.1	8.0	9.1
Walla Walla, Wash	5.8	5.6	5.4	5.4	5.6	5.7	5.2	5.6	5.4	5.9	7.1	7.0	7.0	7.0	7.3	7.0	7.0	7.5	7.3	7.4	7.0	6.4	6.1	5.9	6.4
Washington, D. C	3.8	4.1	4.2	3.8	3.9	4.2	4.7	5.8	7.1	8.1	8.5	9.3	9.9	10.0	10.5	9.7	8.8	7.6	6.0	5.2	4.8	4.3	4.3	4.3	6.4
Wichita, Kans	7.4	7.7	7.3	7.3	7.0	7.3	7.3	7.4	8.5	9.6	9.9	10.4	11.0	11.9	12.5	12.9	12.3	12.0	11.7	10.7	8.3	7.3	7.2	6.9	9.2
Williston, N. Dak	6.5	6.2	6.7	6.8	6.4	6.1	6.3	7.4	8.3	8.8	9.7	10.4	12.1	12.6	12.7	12.5	12.1	12.5	12.1	10.9	8.7	7.1	6.3	6.7	9.0
Wilmington, N. C	5.8	6.0	6.0	5.7	5.6	5.7	6.7	7.8	7.8	8.0	8.5	8.4	8.8	10.2	10.7	11.2	11.0	9.9	8.5	7.0	6.5	6.9	5.9	5.6	7.7
Woods Hole, Mass	14.0	13.4	12.8	12.9	12.2	12.6	12.5	12.2	12.5	12.9	14.5	14.3	16.5	17.2	17.3	16.5	16.3	15.6	15.0	14.2	13.9	14.3	14.0	13.5	14.2
Yankton, S. Dak	6.5	7.9	7.3	6.4	6.1	5.8	6.2	6.9	8.1	9.1	9.6	10.0	10.6	11.1	11.1	10.8	10.6	9.9	8.9	8.5	7.2	7.2	6.8	6.9	8.3

TABLE VIII.—*Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of June, 1897.*

Stations.	Component direction from— N.	S.	E.	W.	Resultant. Direction from—	Duration.
	Hours.	Hours.	Hours.	Hours.	°	Hours.
New England.						
Eastport, Me	18	16	17	21	n. 63 w.	4
Portland, Me	20	18	14	21	n. 74 w.	7
Northfield, Vt	31	25	3	9	n. 45 w.	8
Boston, Mass	21	10	16	24	n. 36 w.	14
Nantucket, Mass	15	18	13	29	s. 79 w.	16
Woods Hole, Mass.*	7	15	5	9	s. 27 w.	9
Block Island, R. I	13	5	14	33	s. 84 w.	19
New Haven, Conn	20	21	10	25	s. 86 w.	15
Middle Atlantic States.						
Albany, N. Y	14	25	7	24	s. 57 w.	20
Binghamton, N. Y †	12	6	6	12	n. 45 w.	8
New York, N. Y	17	19	9	30	s. 28 w.	19
Harrisburg, Pa	18	12	14	25	n. 61 w.	12
Philadelphia, Pa	24	17	10	23	n. 62 w.	15
Atlantic City, N. J	24	16	10	26	n. 63 w.	18
Baltimore, Md	20	13	16	22	n. 41 w.	9
Washington, D. C	24	17	10	19	n. 49 w.	11
Lynchburg, Va	19	19	21	18	e.	3
Norfolk, Va	16	23	23	14	s. 52 e.	11
South Atlantic States.						
Charlotte, N. C	11	23	27	12	s. 51 e.	19
Hatteras, N. C	11	22	25	17	s. 36 e.	14
Kittyhawk, N. C	14	20	25	15	s. 59 e.	12
Raleigh, N. C	17	16	11	24	n. 86 w.	13
Wilmington, N. C	13	19	18	21	s. 27 w.	7
Charleston, S. C	8	27	14	23	s. 25 w.	21
Augusta, Ga	19	19	16	16	se.	.....
Savannah, Ga	13	25	13	22	s. 37 w.	15
Jacksonville, Fla	5	29	14	25	s. 25 w.	26
Florida Peninsula.						
Jupiter, Fla	7	37	17	12	s. 9 e.	30
Key West, Fla	6	25	38	5	s. 60 e.	38
Tampa, Fla	12	18	19	28	s. 56 w.	11
Eastern Gulf States.						
Atlanta, Ga	19	16	14	26	n. 76 w.	12
Pensacola, Fla	14	28	5	35	s. 65 w.	33
Mobile, Ala	19	22	5	25	s. 81 w.	20
Montgomery, Ala	14	22	13	23	s. 51 w.	13
Vicksburg, Miss	12	25	14	22	s. 32 w.	15
New Orleans, La	7	39	15	15	s.	32
Western Gulf States.						
Shreveport, La	11	35	16	11	s. 12 e.	24
Fort Smith, Ark	7	23	31	10	s. 53 e.	26
Little Rock, Ark	16	31	8	17	s. 31 w.	18
Corpus Christi, Tex	3	42	43	3	s. 46 e.	56
Galveston, Tex	6	43	14	5	s. 14 e.	38
Palestine, Tex	8	37	23	7	s. 29 e.	33
San Antonio, Tex	7	37	32	2	s. 45 e.	42
Ohio Valley and Tennessee.						
Chattanooga, Tenn	28	12	16	19	n. 11 w.	16
Knoxville, Tenn	24	8	14	25	n. 34 w.	19
Memphis, Tenn	12	25	13	19	s. 25 w.	14
Nashville, Tenn	19	17	11	25	n. 82 w.	14
Lexington, Ky	12	24	17	22	s. 23 w.	13
Louisville, Ky	20	22	15	15	s.	2
Indianapolis, Ind	17	21	13	22	s. 66 w.	10
Cincinnati, Ohio	18	19	16	21	s. 79 w.	5
Columbus, Ohio	20	14	14	23	n. 56 w.	11
Pittsburg, Pa	20	20	6	24	w.	18
Parkersburg, W. Va	22	23	14	15	s. 45 w.	1
Lower Lake Region.						
Buffalo, N. Y	15	19	8	30	s. 80 w.	22
Oswego, N. Y	7	20	9	34	s. 63 w.	28
Rochester, N. Y	12	17	7	37	s. 81 w.	30
Erie, Pa	16	16	10	27	w.	17
Cleveland, Ohio	22	18	11	21	n. 68 w.	11
Sandusky, Ohio	15	17	21	15	s. 72 e.	6
Toledo, Ohio	13	13	20	22	e.	2
Detroit, Mich	16	18	19	21	s. 45 w.	3
Upper Lake Region.						
Alpena, Mich	20	22	17	18	s. 45 w.	3
Grand Haven, Mich	17	18	16	26	s. 84 w.	10
Marquette, Mich	32	15	9	19	n. 30 w.	20
Port Huron, Mich	28	19	7	13	n. 34 w.	11
Sault Ste. Marie, Mich	18	10	16	30	n. 60 w.	16
Chicago, Ill	16	17	21	19	s. 63 e.	2
Milwaukee, Wis	15	18	23	17	s. 72 e.	10
Upper Lake Region—Cont'd.						
Greenbay, Wis	13	21	21	19	s. 14 e.	8
Duluth, Minn	32	9	26	12	n. 31 e.	27
North Dakota.						
Moorhead, Minn	19	20	25	14	s. 85 e.	11
Bismarck, N. Dak	20	20	23	10	e.	13
Williston, N. Dak	25	18	15	12	n. 23 e.	8
Upper Mississippi Valley.						
St. Paul, Minn	17	20	20	20	s.	3
La Crosse, Wis. †	10	14	7	7	s.	4
Davenport, Iowa	9	23	21	21	s.	14
Des Moines, Iowa	14	24	17	20	s. 17 w.	10
Dubuque, Iowa	9	20	17	23	s. 29 w.	12
Keokuk, Iowa	14	31	12	18	s. 19 w.	18
Cairo, Ill	13	29	17	16	s. 3 e.	16
Springfield, Ill	8	25	15	23	s. 25 w.	19
Hannibal, Mo. †	2	17	4	11	s. 25 w.	17
St. Louis, Mo	7	31	16	17	s. 2 w.	24
Missouri Valley.						
Columbia, Mo.*	3	17	11	5	s. 23 e.	15
Kansas City, Mo	11	34	18	16	s. 5 e.	23
Springfield, Mo	5	36	21	8	s. 23 e.	34
Lincoln, Nebr	19	25	26	7	s. 72 e.	20
Omaha, Nebr	26	20	22	7	n. 68 e.	16
Sioux City, Iowa †	9	10	12	6	s. 80 e.	6
Pierre, S. Dak	17	20	23	12	s. 75 e.	11
Huron, S. Dak	22	22	21	12	e.	9
Yankton, S. Dak	16	18	28	8	s. 84 e.	20
Northern Slope.						
Havre, Mont	20	14	16	26	n. 59 w.	12
Miles City, Mont	13	17	20	21	s. 14 w.	4
Helena, Mont	17	20	7	33	s. 83 w.	26
Rapid City, S. Dak	16	16	22	20	e.	2
Cheyenne, Wyo	22	17	9	26	n. 74 w.	18
Lander, Wyo	19	20	12	26	s. 86 w.	14
North Platte, Nebr	9	25	25	14	s. 34 e.	19
Middle Slope.						
Denver, Colo	22	16	11	14	n. 27 w.	7
Pueblo, Colo	24	13	18	22	n. 20 w.	12
Concordia, Kans	11	26	22	6	s. 47 e.	22
Dodge City, Kans	11	39	12	8	s. 8 e.	28
Wichita, Kans	6	44	11	7	s. 6 e.	38
Oklahoma, Okla	6	50	5	3	s. 3 e.	44
Southern Slope.						
Abilene, Tex	2	37	32	2	s. 41 e.	46
Amarillo, Tex	8	41	4	12	s. 14 w.	34
Southern Plateau.						
El Paso, Tex	22	10	24	23	n. 65 e.	29
Santa Fe, N. Mex	10	29	21	18	s. 9 e.	19
Phœnix, Ariz	19	3	23	24	n. 3 w.	16
Middle Plateau.						
Carson City, Nev	13	17	3	40	s. 84 w.	37
Winnemucca, Nev	13	21	12	29	s. 65 w.	19
Salt Lake City, Utah	16	24	24	12	s. 56 e.	14
Northern Plateau.						
Baker City, Oreg	23	25	12	17	s. 68 w.	5
Idaho Falls, Idaho	16	38	6	6	s.	12
Spokane, Wash	11	28	14	22	s. 25 w.	19
Walla Walla, Wash	9	32	12	15	s. 7 w.	23
North Pacific Coast Region.						
Fort Canby, Wash	17	13	10	27	n. 77 w.	18
Port Angeles, Wash.*	1	5	4	24	s. 79 w.	20
Seattle, Wash	17	25	15	14	s. 7 e.	8
Tacoma, Wash	22	19	3	28	n. 83 w.	25
Tatoosh Island, Wash	10	26	12	25	s. 39 w.	21
Portland, Oreg	26	19	8	28	n. 71 w.	21
Roseburg, Oreg	32	9	16	18	n. 5 w.	23
Middle Pacific Coast Region.						
Eureka, Cal	21	17	6	33	n. 82 w.	27
Redbluff, Cal	29	19	14	12	n. 11 e.	10
Sacramento, Cal	16	28	4	35	s. 69 w.	33
San Francisco, Cal	1	14	1	50	s. 75 w.	51
South Pacific Coast Region.						
Fresno, Cal	37	4	2	39	n. 49 w.	50
Los Angeles, Cal	9	18	19	28	s. 45 w.	13
San Diego, Cal	13	22	4	33	n. 73 w.	30
San Luis Obispo, Cal	20	19	2	18	n. 85 w.	11

* From observations at 8 p. m. only. † From observations at 8 a. m. only.

TABLE IX.—*Thunderstorms and auroras, June, 1897.*

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	50	T.	....	3	4	5	1	....	3	6	1	...	1	3	1	5	9	7	3	2	2	2	....	1	5	....	2	6	2	5	5	5	....	88	25	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Arizona	49	T.	....	....	....	....	....	....	....	....	1	1	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	6	6	....	16	5	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Arkansas	50	T.	12	11	12	....	....	6	1	....	1	1	5	7	7	11	5	....	....	6	6	3	7	6	6	6	10	14	11	1	....	....	....	155	23	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
California	197	T.	....	....	....	....	....	....	1	....	....	....	....	....	....	15	4	2	....	1	1	....	....	....	....	....	....	....	2	1	1	1	....	29	10	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Colorado	71	T.	9	8	5	3	8	1	4	14	12	15	10	6	8	8	....	....	....	1	....	2	11	1	2	4	10	8	3	3	9	3	....	168	26	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Connecticut	14	T.	....	....	....	1	....	....	....	....	....	1	....	....	7	5	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	21	6	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Delaware	4	T.	....	....	1	1	....	....	....	....	....	....	....	1	4	....	1	2	....	....	1	2	....	....	....	2	3	....	....	....	....	....	....	18	10	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	2	2	A.
Dist. of Columbia	4	T.	....	....	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	1	....	....	....	1	....	....	....	....	....	....	....	6	6	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Florida	38	T.	1	3	11	13	10	9	7	7	9	5	1	7	7	6	9	10	10	8	9	7	17	12	10	5	11	8	4	9	8	6	....	239	30	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Georgia	50	T.	....	6	2	7	5	2	5	7	1	1	4	1	4	3	11	5	....	6	5	5	2	1	7	4	5	1	4	10	3	....	....	117	27	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Idaho	36	T.	2	....	....	....	....	1	7	3	....	....	....	....	1	2	4	2	....	....	1	....	5	1	2	2	6	4	5	5	4	1	....	58	19	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	2	A.
Illinois	97	T.	....	13	10	1	4	4	....	....	....	10	5	5	4	20	15	20	24	28	22	8	4	14	41	19	8	3	2	16	8	21	....	329	26	T.
		A.	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	1	1	....	1	....	....	6	6	A.
Indiana	49	T.	....	....	9	....	....	4	....	....	1	....	8	7	5	....	6	13	7	11	8	....	....	....	8	3	....	....	....	....	....	4	....	94	14	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Indian Territory	7	T.	1	....	1	....	....	....	....	....	....	....	....	....	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	6	4	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Iowa	101	T.	3	7	....	....	13	....	....	1	5	18	3	1	1	7	17	4	3	28	19	2	7	17	33	8	3	11	....	14	7	10	....	142	25	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	3	A.
Kansas	73	T.	8	10	2	7	6	3	11	4	15	8	4	1	3	7	2	....	4	5	11	10	11	11	4	11	9	8	8	4	6	9	....	202	29	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Kentucky	47	T.	....	3	5	2	....	....	2	1	....	....	1	5	2	8	3	5	13	13	13	15	....	6	15	14	8	....	1	....	1	3	....	129	22	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Louisiana	51	T.	3	2	5	4	1	4	10	4	1	5	1	3	4	7	16	7	5	2	3	....	....	4	2	2	7	9	14	5	2	....	....	132	27	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Maine	13	T.	....	....	1	2	....	....	....	....	....	....	1	....	....	....	3	1	1	4	....	....	....	1	....	4	3	....	....	3	....	....	....	24	11	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Maryland	31	T.	....	....	12	12	....	1	....	....	....	....	1	5	11	1	12	12	1	1	11	4	....	....	....	7	8	....	....	....	....	1	....	100	16	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Massachusetts	27	T.	....	....	2	7	1	....	....	....	6	2	....	2	15	3	7	....	....	....	....	....	....	....	....	....	3	....	....	....	....	8	....	56	11	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	A.
Michigan	96	T.	....	....	2	....	1	13	1	....	1	6	4	3	10	3	13	20	3	2	16	1	....	6	8	....	....	....	....	8	15	5	....	141	21	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	1	A.
Minnesota	69	T.	6	3	....	....	4	....	....	....	3	14	....	1	....	10	20	17	10	15	10	....	5	17	2	....	....	2	10	19	8	2	....	178	20	T.
		A.	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	4	4	A.
Mississippi	45	T.	1	1	7	2	1	2	6	1	....	....	....	2	2	6	9	4	1	...	2	3	2	3	....	4	2	7	5	2	2	4	....	81	25	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Missouri	96	T.	8	21	11	5	2	7	....	3	21	15	9	11	13	27	16	1	2	19	30	19	27	26	17	46	38	39	26	21	21	26	....	527	29	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	3	3	A.
Montana	40	T.	3	1	1	3	1	2	3	3	2	....	....	....	2	9	5	4	1	1	1	1	5	6	2	....	1	2	4	4	2	....	....	69	25	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	1	....	....	....	....	3	3	A.
Nebraska	112	T.	12	4	4	2	2	4	1	4	8	3	5	....	4	10	7	....	13	6	12	4	7	6	10	16	3	14	2	12	7	13	....	195	2	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	2	2	A.
Nevada	39	T.	....	....	....	....	....	....	3	1	5	1	....	....	1	1	1	1	....	1	....	....	....	....	1	2	3	2	1	3	1	....	....	28	16	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
New Hampshire	23	T.	....	....	5	7	....	....	....	....	3	....	1	4	7	3	4	1	....	....	....	1	....	....	....	4	....	....	....	2	1	....	....	43	13	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	6	3	A.
New Jersey	54	T.	6	2	12	25	....	2	....	1	....	....	....	1	1	....	11	....	1	1	2	22	....	....	....	4	18	....	....	....	1	1	....	111	17	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	2	2	A.
New Mexico	42	T.	....	....	....	....	....	....	....	....	....	....	2	1	1	....	....	....	....	....	....	1	....	1	....	1	2	2	....	....	2	....	....	13	9	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
New York	93	T.	....	....	19	5	1	1	1	....	....	....	....	....	13	6	7	....	1	....	3	6	....	....	1	20	....	....	....	....	....	8	....	92	14	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	1	....	....	....	....	3	3	A.
North Carolina	60	T.	....	4	7	17	10	1	13	8	2	3	....	15	4	4	10	7	20	17	13	11	....	1	3	22	13	8	13	5	5	8	....	244	27	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
North Dakota	39	T.	....	1	....	....	....	....	....	3	8	3	....	....	....	6	6	9	1	2	....	....	3	4	....	....	....	4	7	4	....	13	....	74	14	T.
		A.	....	....	....	1	....	1	....	1	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	5	5	A.
Ohio	140	T.	....	1	29	....	....	5	8	....	....	....	29	11	36	1	9	38	11	18	37	15	....	2	3	6	2	....	1	3	35	16	....	316	22	T.
		A.	....	....	....	....	....	....	....	1	1	....	1	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	6	6	A.
Oklahoma	20	T.	2	....	1	....	1	3	1	2	....	....	1	....	4	2	3	....	2	1	....	....	....	....	....	....	....	....	1	....	....	....	....	24	13	T.
		A.	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	3	A.
Oregon	60	T.	....	....	....	....	....	....	2	....	....	....	....	....	....	1	....	1	....	....	....	3	8	1	1	6	12	2	1	1	1	2	....	42	14	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Pennsylvania	93	T.	4	....	22	16	2	....	3	1	....	....	4	8	11	1	19	3	....	....	18	5	....	....	1	18	23	....	....	....	2	2	....	164	19	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Rhode Island	6	T.	....	....	....	....	....	....	....	....	....	....	....	1	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	5	4	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
South Carolina	42	T.	1	7	12	12	6	1	12	10	1	4	3	9	6	5	12	6	4	10	11	11	2	....	4	12	13	3	10	16	3	2	....	208	29	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
South Dakota	46	T.	5	2	1	2	2	2	1	2	2	....	....	....	....	7	7	3	2	5	1	....	5	5	9	5	4	....	5	7	4	....	....	87	23	T.
		A.	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	2	A.
Tennessee	49	T.	....	9	12	8	....	....	9	3	....	....	4	5	5	9	15	7	2	9	16	11	....	10	15	10	9	2	4	7	....	1	....	182	23	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Texas	91	T.	9	....	16	3	....	8	....	....	....	....	6	5	3	2	1	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	55	11	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Utah	32	T.	2	....	....	....	....	....	....	1	4	5	1	3	2	....	....	....	....	....	....	....	1	....	....	....	....	1	2	3	....	....	....	25	11	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Vermont	13	T.	....	....	7	4	1	....	....	....	....	....	....	1	6	2	4	....	....	....	....	1	....	....	....	3	....	....	....	....	....	....	....	29	9	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	1	A.
Virginia	37	T.	....	....	10	12	....	....	....	1	....	....	....	6	11	....	1	9	4	3	10	7	....	....	....	3	1	3	....	....	....	....	....	81	14	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Washington	51	T.	....	....	....	....	....	....	....	....	....	....	....	....	1	2	....	1	....	....	3	2	7	1	....	6	9	9	3	1	1	....	....	46	13	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
West Virginia	37	T.	....	....	4	2	....	....	2	1	....	....	....	6	9	1	....	6	3	2	8	5	....	....	....	2	2	....	....	1	2	3	....	59	17	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Wisconsin	58	T.	1	9	....	2	12	2	....	1	2	16	2	3	2	....	23	29	17	8	18	....	4	25	22	....	....	....	3	14	13	....	....	228	22	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Wyoming	14	T.	1	3	3	2	....	2	1	2	1	1	....	....	....	3	....	1	....	....	1	....	1	1	2	1	....	2	1	3	....	1	....	33	20	T.
		A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0	0	A.
Sums	2,647	T.	100	133	268	195	95	90	118	95	116	138	116	153	242	231	334	258	170	236	325	190	131	190	136	283	252	174	155	212	186	188	...	5,509	....	T.
		A.	0	2	3	1	0	2	1	2	1	0	1	2	3	2	1	7	3	0	4	1	1	2	1	2	0	4	7	1	1	1	....	56	....	A.

TABLE X.—*Hourly sunshine as deduced from sunshine recorders, June, 1897.*

Stations.	Instrument.	Percentages for each hour of local mean time ending with the respective hour.																Hours of sunshine.			
		A. M.								P. M.								Total.			
		5	6	7	8	9	10	11	Noon	1	2	3	4	5	6	7	8	Actual.	Possible.	Percent of possible.	Personal estimate.
																		Hours.	*Hours.*		
Albany, N. Y	T.	37	37	49	55	70	80	90	88	85	84	76	76	68	57	47	47	305.1	459.9	66	45
Atlanta, Ga	T.	63	63	62	60	64	65	74	74	68	61	47	40	37	37	37	36	242.2	431.5	56	53
Atlantic City, N. J	P.	53	53	51	58	60	64	61	59	62	66	61	60	57	48	40	34	251.2	445.9	56	46
Baltimore, Md	T.	17	19	23	39	58	69	78	78	70	66	66	57	46	27	23	22	219.0	445.9	49	45
Binghamton, N. Y	T.	30	30	44	57	67	72	77	80	77	69	65	59	52	45	36	37	261.3	456.2	57	49
Bismarck, N. Dak	P.	44	43	50	55	64	70	71	72	70	72	71	64	59	63	56	54	290.7	475.6	61	49
Boston, Mass	T.	40	42	47	54	54	65	70	68	72	65	69	59	52	53	43	35	257.5	456.2	56	43
Buffalo, N. Y	T.	44	47	56	61	60	75	79	88	84	85	84	80	65	51	37	30	300.7	459.9	65	44
Charleston, S. C	T.	38	37	39	66	86	91	94	92	89	84	80	70	60	39	23	21	288.9	428.7	67	50
Chattanooga, Tenn	T.	38	37	41	57	78	76	69	66	72	63	69	67	68	63	52	53	269.4	434.3	62	56
Cheyenne, Wyo	P.	54	58	72	74	73	72	69	61	57	53	53	57	52	48	33	32	263.3	451.9	58	51
Chicago, Ill	T.	26	23	38	51	58	64	71	73	79	75	67	63	50	26	18	24	236.1	456.2	52	47
Cincinnati, Ohio	T.	47	48	57	67	80	81	86	86	92	96	94	91	84	80	65	59	345.8	445.9	78	58
Cleveland, Ohio	T.	10	10	12	29	53	64	71	78	87	83	82	79	62	36	21	21	235.4	456.2	52	43
Columbus, Ohio	T.	37	39	55	70	83	83	91	95	92	92	85	82	75	65	59	59	333.4	449.0	74	50
Denver, Colo	P.	66	63	79	87	93	85	83	82	79	76	65	60	52	45	42	50	314.6	449.0	70	44
Des Moines, Iowa	T.	40	45	48	57	56	64	66	60	54	55	58	62	59	59	59	50	256.7	456.2	56	50
Detroit, Mich	T.	44	43	56	73	75	79	84	88	92	89	82	76	72	53	38	36	314.3	456.2	69	58
Dodge City, Kans	P.	54	59	63	68	76	87	86	80	83	86	83	87	73	73	41	31	323.2	443.1	73	61
Dubuque, Iowa	T.	37	37	43	42	50	63	73	72	77	71	64	61	55	46	44	43	253.7	456.2	56	55
Eastport, Me	P.	30	32	41	48	52	54	56	59	58	56	52	49	47	48	34	24	218.1	466.7	47	32
Erie, Pa	T.	27	28	35	40	51	58	61	69	65	69	72	74	62	48	34	34	240.7	456.2	53	48
Eureka, Cal	P.	7	20	25	34	45	47	52	56	61	62	64	66	62	59	49	34	314.8	451.9	48	45
Fresno, Cal	T.	60	60	66	87	92	93	93	94	97	96	94	92	86	77	67	65	371.2	440.2	84	83
Galveston, Tex	P.	.....	53	80	95	95	98	99	98	95	97	97	97	95	93	63	80	376.3	419.0	90	79
Harrisburg, Pa	T.	40	41	50	68	74	79	83	86	83	84	76	71	69	49	50	50	302.3	449.0	67	39
Helena, Mont	P.	40	42	52	57	63	63	65	54	48	52	52	51	47	48	41	33	241.2	475.6	51	45
Idaho Falls, Idaho	T.	44	44	65	79	81	86	83	88	92	85	80	73	57	47	44	44	318.9	459.9	69	63
Indianapolis, Ind	T.	37	41	60	70	86	91	88	90	94	94	85	82	75	69	56	50	336.5	449.0	75	66
Kansas City, Mo	P.	24	24	30	39	43	47	49	48	50	62	63	66	67	46	31	26	206.0	445.9	46	37
Key West, Fla	T.	.....	42	49	64	77	79	73	79	84	75	74	68	58	54	58	.....	275.7	410.2	67	47
Little Rock, Ark	T.	57	57	64	82	89	92	97	97	97	97	94	90	85	85	81	86	372.2	434.3	86	54
Los Angeles, Cal	P.	27	27	34	43	55	68	77	86	93	99	99	99	97	98	91	90	326.6	431.5	76	61
Louisville, Ky	T.	41	47	47	48	62	81	87	90	97	90	87	82	78	61	53	51	313.9	443.1	71	46
Minneapolis, Minn	T.	23	32	36	46	50	53	64	63	67	56	55	46	36	26	20	13	202.8	466.7	43	.....
Nashville, Tenn	T.	61	56	51	67	71	73	79	80	76	77	77	76	75	72	69	54	309.5	437.2	71	65
New Orleans, La	T.	33	40	41	46	49	63	59	56	48	56	45	48	32	21	20	25	186.9	420.9	44	45
New York, N. Y	T.	20	31	51	62	73	78	77	82	83	78	79	82	76	54	28	25	287.1	451.9	64	45
Northfield, Vt	P.	34	38	48	55	55	55	58	53	54	52	49	51	49	47	40	40	227.8	463.5	49	31
Omaha, Nebr	P.	28	29	46	64	69	76	68	66	67	66	75	68	65	56	47	38	269.6	451.9	60	41
Philadelphia, Pa	T.	29	31	35	49	55	64	74	77	80	79	69	70	52	31	20	23	243.7	449.0	54	39
Phœnix, Ariz	P.	96	97	98	100	99	99	100	96	99	98	98	99	99	98	95	98	420.2	428.7	98	88
Pittsburg, Pa	T.	20	20	21	30	55	67	69	66	73	70	72	74	71	48	40	41	242.3	451.9	54	50
Portland, Me	T.	0	13	40	49	56	59	63	67	73	64	62	53	48	35	14	0	209.3	463.5	45	33
Portland, Oreg	T.	16	15	19	24	39	53	58	72	78	75	69	59	43	27	33	35	212.6	471.7	45	42
Portland, Oreg	P.	16	21	25	28	32	38	44	38	46	55	54	53	43	36	33	37	177.5	471.7	38	42
Raleigh, N. C	T.	40	40	49	61	77	84	86	91	95	90	85	85	82	65	50	51	319.9	437.2	73	46
Rochester, N. Y	T.	44	48	50	49	56	64	68	66	70	67	61	60	48	40	34	27	248.3	459.9	54	49
St. Louis, Mo	T.	44	43	52	64	70	78	77	87	87	90	92	86	78	58	31	18	306.1	445.9	69	42
St. Paul, Minn	P.	40	40	43	49	44	46	55	48	49	49	52	42	42	36	36	32	206.9	466.7	44	33
Salt Lake City, Utah	P.	60	63	74	73	74	76	79	74	69	82	79	71	68	63	57	57	319.4	451.9	71	40
San Diego, Cal	P.	13	13	15	22	42	67	87	87	73	72	75	75	74	65	54	53	249.6	428.7	58	61
San Francisco, Cal	T.	57	58	75	85	91	93	95	94	92	90	92	90	83	74	60	50	364.2	443.1	82	63
Santa Fe, N. Mex	P.	57	67	81	92	94	92	94	85	80	69	66	66	59	64	55	33	326.8	437.2	75	64
Savannah, Ga	P.	58	70	86	88	89	87	84	84	87	85	75	69	61	38	19	17	309.0	425.8	73	48
Seattle, Wash	T.	4	8	24	43	51	58	71	72	78	73	69	58	56	40	23	18	223.0	479.8	46	32
Spokane, Wash*	P.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	479.8	.....	36
Tampa, Fla	T.	.....	83	83	74	63	68	79	74	71	71	78	69	59	63	63	.....	296.7	416.2	71	64
Vicksburg, Miss	T.	64	64	78	90	96	97	98	96	94	93	95	94	87	84	63	62	371.4	425.8	87	65
Washington, D. C	P.	47	48	53	57	58	56	61	71	65	73	69	55	54	55	47	46	258.8	445.9	58	46
Wilmington, N. C	T.	38	37	55	78	89	94	96	90	95	94	90	77	63	53	39	38	319.3	431.5	74	62

*Instrument out of order.

TABLE XI.—*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 June, 1897, at all stations furnished with self-registering gauges.*

Station.	Date.	Total duration. From—	Total duration. To—	Total am't of precipitation.	Excessive rate. Began—	Excessive rate. Ended—	Amount before excessive began.	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.	29-30			1.22														0.28			
Atlanta, Ga.	8	2.10 a.m.	4.30 a.m.	0.73	2.49 a.m.	3.24 a.m.	0.05	0.19	0.35	0.39	0.44	0.48	0.55	0.60							
Atlantic City, N. J.	15	6.19 p.m.	7.35 p.m.	0.90	6.41 p.m.	7.13 p.m.	0.05	0.10	0.28	0.50	0.60	0.65	0.82	0.85							
Baltimore, Md.	4-5	4.33 p.m.	8.18 a.m.	0.82	4.48 p.m.	5.05 p.m.	0.05	0.16	0.40	0.49	0.50										
Binghamton, N. Y.	29-30			0.86							0.28										
Bismarck, N. Dak.	16	7.58 p.m.	9.15 p.m.	1.17	8.15 p.m.	8.42 p.m.	0.15	0.05	0.14	0.49	0.64	0.89	0.99	1.09	1.14						
Boston, Mass.	9-10			1.94														0.69			
Buffalo, N. Y.	29			0.75														0.42			
Cairo, Ill.	22	3.45 a.m.	11.45 a.m.	3.28	3.56 a.m.	6.00 a.m.	T.	0.03 1.61	0.10 1.69	0.30 1.70	0.52 1.73	0.65 1.85	0.90 1.94	1.08 1.96	1.30 1.98	1.46 2.12	1.56 2.26	2.52	2.78		
Charleston, S. C.	5	8.55 a.m.	10.30 a.m.	1.33	9.02 a.m.	9.50 a.m.	0.02	0.08	0.31	0.51	0.57	0.59	0.71	0.91	0.94	0.98	1.10	1.16			
Do	22	9.10 a.m.	4.15 p.m.	1.47	9.11 a.m.	9.42 a.m.	0.01	0.22	0.42	0.52	0.77	0.83	0.90	0.91	0.92						
Chicago, Ill.*	16-17			1.86														0.83			
Cincinnati, Ohio	17			0.53														0.25			
Cleveland, Ohio	11			0.53														0.36			
Denver, Colo.	10-11			0.99														0.50			
Des Moines, Iowa	23	12.50 p.m.	2.00 p.m.	0.60	12.56 p.m.	1.20 p.m.	T.	0.26	0.38	0.48	0.55	0.59									
Detroit, Mich.	16	4.25 a.m.	5.40 a.m.	0.96	4.33 a.m.	5.15 a.m.	0.05	0.05	0.25	0.38	0.45	0.53	0.63	0.71	0.80						
Dodge City, Kans.	14			0.55													0.55				
Duluth, Minn.	28			0.80														0.52			
Eastport, Me.	20			0.86														0.27			
Erie, Pa.	7			1.49														0.28			
Galveston, Tex.	3			0.28														0.27			
Harrisburg, Pa.	8-9			0.81														0.12			
Hatteras, N. C.	5-6	12.08 p.m.	2.30 a.m.	2.06	6.17 p.m.	6.47 p.m.	0.35	0.06	0.18	0.48	0.63	0.70	0.75								
Do	29	4.00 a.m.	5.17 a.m.	0.80	4.07 a.m.	4.31 a.m.	0.05	0.10	0.25	0.53	0.65	0.70									
Indianapolis, Ind.	16-17			1.15														0.54			
Jacksonville, Fla.	6	3.40 p.m.	5.10 p.m.	1.68	3.40 p.m.	4.50 p.m.	0.00	0.30	0.43	0.53	0.61	0.85	0.92	0.97	0.98	1.00	1.03	1.34	1.66		
Do	20	8.40 p.m.	10.25 p.m.	0.74	8.40 p.m.	9.00 p.m.	0.00	0.15	0.45	0.60	0.72										
Jupiter, Fla.	8	1.00 p.m.	4.00 p.m.	1.59	1.15 p.m. 2.28 p.m.	1.38 p.m. 2.48 p.m.	0.10 1.04	0.03 0.15	0.06 0.30	0.10 0.41	0.35 0.45	0.55 0.48	0.69	0.90	0.95						
Kansas City, Mo.	13	6.45 p.m.	7.20 p.m.	0.52	7.00 p.m.	7.15 p.m.	T.	0.22	0.44	0.50											
Do	26	1.40 a.m.	4.20 a.m.	2.40	1.49 a.m.	2.30 a.m.	T.	0.35	0.65	1.00	1.25	1.58	1.75	1.87	1.95	1.97	1.98	2.00	2.15	2.30	
Key West, Fla.	11	10.45 a.m.	2.15 p.m.	0.74	11.01 a.m.	11.21 a.m.	0.10	0.23	0.38	0.47	0.52	0.56									
Lincoln, Nebr.	20			0.50													0.48				
Little Rock, Ark.	27	4.54 p.m.	5.45 p.m.	1.02	5.02 p.m.	‡	0.01	‡	‡	‡	‡	‡	‡	‡	‡	‡	1.02				
Louisville, Ky.	20	3.25 p.m.	3.50 p.m.	0.51	3.28 p.m.	3.42 p.m.	0.01	0.26	0.41	0.48											
Memphis, Tenn.	27	8.25 p.m.	9.45 p.m.	0.95	8.27 p.m.	9.02 p.m.	0.01	0.07	0.20	0.44	0.61	0.79	0.88	0.91							
Milwaukee, Wis.	23			0.42														0.42			
Montgomery, Ala.	16	3.35 p.m.	4.40 p.m.	1.04	3.58 p.m.	4.22 p.m.	0.03	0.22	0.50	0.67	0.77	0.88									
Do	19	4.40 p.m.	5.20 p.m.	0.80	4.52 p.m.	5.17 p.m.	0.01	0.29	0.44	0.65	0.72	0.76									
Do	25	5.30 p.m.	6.25 p.m.	0.83	5.32 p.m.	5.52 p.m.	0.01	0.21	0.49	0.73	0.80										
Nantucket, Mass.	30			0.79														0.28			
Nashville, Tenn.	19			0.81														0.44			
New Orleans, La.	16	2.03 p.m.	6.05 p.m.	1.75	2.52 p.m.	3.12 p.m.	0.04	0.30	0.40	0.58	0.75	0.76	0.76	0.76	0.76	0.76	0.78	0.90	0.95	0.96	
Do	26	6.28 p.m.	7.10 p.m.	0.80	6.30 p.m.	7.00 p.m.	0.01	0.20	0.30	0.40	0.52	0.62	0.75	0.80							
New York, N. Y.	4	6.16 p.m.	8.38 p.m.	0.60	6.29 p.m.	6.39 p.m.	T.	0.42	0.57												
Do	8-9	9.31 a.m.	4.15 p.m.	1.79	11.35 p.m.	12.05 a.m.	0.97	0.05	0.13	0.23	0.38	0.53	0.60								
Norfolk, Va.	13			0.65														0.42			
Omaha, Nebr.	30	3.50 a.m.	6.20 a.m.	0.52	4.17 a.m.	4.37 a.m.	0.04	0.15	0.26	0.36	0.41										
Philadelphia, Pa.	25	5.39 p.m.	6.15 p.m.	0.34	5.47 p.m.	5.57 p.m.	0.01	0.17	0.33												
Pittsburg, Pa.	19			0.41									0.40								
Portland, Me.	20			0.92														0.39			
Portland, Oreg.	25			0.38											0.31						
Raleigh, N. C.	24	1.00 a.m.	2.00 a.m.	1.54	1.17 a.m.	1.57 a.m.	0.04	0.08	0.35	0.53	0.69	0.83	0.98	1.15	1.41	1.49					
Rochester, N. Y.	29			0.60														0.25			
St Louis, Mo.	22	1.30 a.m.	9.30 a.m.	1.49	1.40 a.m.	3.00 a.m.	T.	0.18	0.39	0.54	0.56	0.57	0.58	0.59	0.60	0.60	0.61	0.77	0.89		
St. Paul, Minn.																					
Salt Lake City, Utah	15-16			0.37														0.10			
San Diego, Cal.	14			T.																	
San Francisco, Cal.	19-20			0.17														0.03			
Savannah, Ga.	15	4.40 p.m.	6.15 p.m.	1.60	4.40 p.m.	5.35 p.m.	T.	0.15	0.39	0.71	0.95	1.11	1.21	1.34	1.42	1.49	1.55	1.60			
Seattle, Wash.	21-22			0.92														0.19			
Tampa, Fla.	7	2.05 p.m.	5.15 p.m.	3.52	2.30 p.m.	†	0.20	0.05	0.10	0.15	0.38	0.70	1.15	1.55	1.95	†					
Do	21-22	D. N.	D. N.	0.90	11.57 p.m.	12.27 a.m.	0.05	0.11	0.25	0.49	0.65	0.72	0.77								
Do	28	6.25 p.m.	6.55 p.m.	0.90	6.32 p.m.	6.53 p.m.	0.05	0.28	0.62	0.68	0.78	0.85									
Vicksburg, Miss.	3-4	6.52 p.m.	2.40 a.m.	1.24	7.44 p.m.	8.05 p.m.	0.06	0.10	0.32	0.55	0.64										
Do	15	12.58 p.m.	3.10 p.m.	0.20	1.01 p.m.	1.48 p.m.	0.01	0.08	0.26	0.45	0.45	0.45	0.45	0.45	0.51	0.74	0.84				
Washington, D. C.	17	2.30 p.m.	4.55 p.m.	1.09	3.20 p.m.	4.40 p.m.	0.01	0.16	0.26	0.34	0.41	0.51	0.58	0.64	0.70	0.72	0.77	0.90	1.06		
Wilmington, N. C.	5	10.13 a.m.	11.40 a.m.	1.55	10.17 a.m.	10.37 a.m.	0.01	0.17	0.58	0.90	1.23	1.30	1.32	1.36	1.43	1.47					
Yankton, N. Dak.	28-29			0.74														0.24			

* Self register out of order. † Gauge overflowed at 2.58 p.m., after which 1.57 inches fell, making a total fall of 3.52 inches in 3 hours and 10 minutes. ‡ Instrument broken by storm soon after heavy rain began, 1.02 inches fell in 51 minutes.

TABLE XII.—*Excessive precipitation, by stations, for June*, 1897.

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.
	Inches.	*Inches.*		*Ins.*	*h.m.*	
Alabama.						
Birmingham		2.75	16			
Citronelle				1.28	1 00	8
Gadsden				1.35	1 00	23
Hamilton				2.13	2 00	28
Montgomery				1.05	0 55	16
Newburg				2.03	2 00	28
Arkansas.						
Dallas		3.52	2-3	2.10	1 15	14
Little Rock				1.02	0 51	27
Warren				1.13	1 00	4
Colorado.						
Fort Morgan				1.45	0 20	14
Gold Hill		4.35	10			
Wray		2.57	8-9			
Yuma				1.00	0 30	28
Connecticut.						
Canton		3.14	9			
Southington		2.75	8-9			
West Cornwall		2.65	8-9			
Windsor		2.55	9			
Florida.						
Brooksville		2.53	29	2.53	1 15	29
Earnestville				1.10	1 00	21
Eustis				2.32	0 45	22
Federal Point		2.51	18-19			
Gainesville				2.17	1 00	30
Huntington		2.90	4			
Jacksonville				1.32	1 00	6
Kissimmee		2.80	6			
Lake City		2.51	13			
Merritts Island				1.44	0 30	17
Myers				1.01	1 00	4
Orange City				1.10	1 00	14
Sebastian		3.22	6			
Tampa		4.10	7	1.00	0 48	7
Do				1.00	0 30	28
Georgia.						
Alapaha				1.17	0 55	18
Belleville		2.50	6			
Blakely		3.28	20			
Brag				1.47	0 20	13
Cedartown				1.31	1 15	15
Covington				1.25	0 30	27
Elberton				1.50	1 00	16
Jesup				1.51	0 40	11
Macon				1.18	1 05	6
Do				1.57	1 15	20
Marshallville				1.50	1 00	15
Millen				1.03	0 57	21
Quitman		3.87	6			
Rome				1.53	1 00	15
Savannah				1.50	1 00	15
Illinois.						
Alexander		2.95	24			
Beardstown		2.52	23-24			
Cairo		4.59	22-23	2.92	2 15	22
Chester		2.95	19	2.95	1 05	19
Dixon		2.80	23			
Dwight				1.40	0 40	17
Effingham		2.50	23			
Fort Sheridan		3.00	16-17			
Iron		3.25	22			
Joliet		3.36	16-17			
Kishwaukee		2.51	23			
Knoxville				1.00	1 00	30
Laharpe				2.25	1 30	30
Mount Pulaski				1.75	1 35	30
Mount Vernon		4.10	22	3.25	3 00	22
Oswego				1.50	1 30	18
Ottawa		3.57	22-23			
Philo				1.80	0 50	23
Roundgrove		2.70	17			
Sycamore		2.83	23			
Indiana.						
Bluffton		3.17	16			
Fort Wayne		2.88	16	2.00	1 30	16
Knightstown				1.13	1 00	16
Knox				2.00	2 00	16
Kokomo		3.16	18			
Vevay		2.60	17-18			
Winamac		4.30	16			
Indian Territory.						
Lehigh		3.42	13-14			
Purcell		5.65	13-14			
South McAlester		3.15	13-14			
Iowa.						
Bonaparte				1.02	1 00	30
Cresco				1.25	1 00	19
Estherville		2.85	16			
Fayette		2.59	28	1.34	1 00	28
Fort Madison				1.26	1 15	30
Keosauqua		3.30	23-24			
Mooar		3.05	24			
Mountayr				1.89	1 00	30
Mount Pleasant		3.10	23			
Osage				1.32	0 35	29
Osceola				1.20	1 00	22
Oskaloosa		2.87	19			
Red Oak		2.50	26			
St. Charles				1.00	0 45	11

TABLE XII.—*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.
	Inches.	*Inches.*		*Ins.*	*h.m.*	
***Iowa*—Continued.**						
St. Charles				1.42	0 55	23
Sigourney				1.00	0 30	15
Kansas.						
Atchison		3.38	26			
Beloit		3.06	13			
Blaine		4.27	26			
Colby				1.70	0 35	7
Do				1.90	1 10	29
Fort Scott	10.52	6.34	25	6.34	6 00	25
Gove		3.15	10-11			
Horton		3.08	26			
Independence				1.34	0 50	2
Mounthope				1.77	0 30	7
Osborne		2.50	14			
Ottawa	11.01	3.48	24-25	2.20	2 00	7
Sharon Springs				1.00	0 30	29
Topeka		2.62	24-25			
Kentucky.						
Bardstown				2.33	1 00	20
Blandville		2.51	22-23			
Loretto				1.82	1 30	19
Pleasure Ridge Park				1.50	0 35	18
Louisiana.						
Bastrop		2.53	3			
Grand Coteau				1.30	1 00	26
Houma		3.20	29	3.20	1 10	29
Lake Charles		2.90	8			
Melville		2.50	16	2.50	2 00	16
Montgomery				1.70	1 00	25
Oberlin		2.50	13	2.50	1 00	13
Do				2.00	2 00	21
Oxford				1.31	0 10	11
Sugar Experiment Station				1.56	1 30	1
Do				1.15	0 20	10
Do				1.20	0 30	12
White Sulphur Springs		3.33	3			
Maryland.						
Solomons		2.92	24	2.92	2 30	24
Massachusetts.						
Amherst		3.95	9			
Groton		2.50	9			
Lawrence		2.56	9-10			
Leeds		2.69	9			
Springfield Armory		3.13	8-9			
Wakefield		2.88	9-10	1.15	0 40	4
Michigan.						
Alma				2.40	2 00	15
Ewen				1.00	1 00	21
Kalamazoo		2.89	16			
Olivet		4.24	16-17			
Minnesota.						
Ada		2.00	28			
Beardsley		3.10	27			
Bermidji		2.50	15			
Blooming Prairie				1.50	0 20	10
Lakeside		2.60	1			
Do		2.60	15			
Long Prairie		2.74	27-28			
Minneapolis		2.55	1-2			
Moorhead		4.36	27-28	2.10	1 35	27
St. Paul		2.51	1-2			
Mississippi.						
Hazlehurst				1.40	0 15	16
Magnolia				1.40	1 00	3
Thornton				2.00	2 00	4
Windham				1.24	1 00	3
Missouri.						
Akron		3.52	30			
Arthur	10.76	5.65	24-25			
Avalon		2.50	26			
Columbia				1.15	0 28	24
Conception	11.67	4.12	26			
Elmira	11.47	6.40	30			
Emma		2.75	26			
Fairport				1.27	0 45	26
Farmersville		2.61	26-27			
Fayette		2.83	24			
Fulton				1.31	1 00	28
Gallatin		3.10	26-27			
Gordonville		2.60	21			
Hannibal		2.84	21-22			
Houstonia		4.43	26			
Humansville				1.15	0 35	26
Ironton	10.69	2.77	22			
Jefferson City		2.70	26-27			
Kansas City		4.37	26-27	2.00	1 00	26
Kidder				1.02	0 28	24-25
Lamar		2.70	25			
Lamonte				2.14	1 30	18
Liberty		4.95	27			
Mexico		2.82	22-23			
Nevada		4.09	24-25			
New Palestine				1.00	0 45	30
Oakfield		3.19	21-22			
Palmyra		3.21	22			
Platte River				1.42	1 00	26
Poplar Bluff		2.51	27-28			
Princeton		2.60	30			
Stellada		2.51	26-27			
Virgil City		3.99	24-25			

TABLE XII.—*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.
Missouri—Continued.	*Inches.*	*Inches.*		*Ins.*	*h. m.*	
Warrenton		2.97	21-22			
Montana.						
Havre		2.65	15-16			
Nebraska.						
Arapaho				1.10	1 00	9
Do				1.10	0 30	26
Calloway				1.20	1 00	29
Chester		4.29	26			
Greeley Center		5.05	30			
Hastings				1.25	1 15	25
Holdrege				1.00	1 00	26
Indianola (near)		2.90	26	2.90	2 15	26
Kirkwood				1.29	1 00	23
Loup		2.90	30	2.90	2 00	30
Nesbit				1.25	0 40	21
North Loup		3.52	29			
Redcloud	10.93	5.71	26-27			
Superior		3.01	26-27			
New Hampshire.						
Concord		4.42	9-10			
Durham		6.79	9-10			
Newton		4.35	9-10			
North Conway		2.57	9-10			
Sanbornton		3.71	9-10			
New Jersey.						
Newark		2.55	8-9			
Sergeantsville		2.75	8-9			
New Mexico.						
Ocate		3.04	26			
Raton				2.05	0 30	27
Roswell				1.05	1 00	19
New York.						
Cooperstown		2.50	9			
Gloversville		2.59	9			
North Carolina.						
Flatrock		3.61	3			
Highlands		2.72	2			
Lynn		3.43	7			
Mana				1.45	1 00	4
Mount Pleasant		2.72	7			
Raleigh				1.56	1 00	24
Sloan				2.02	1 00	24
Springhope		3.50	15	3.50	2 00	15
Wilmington				1.54	1 00	5
North Dakota.						
Bismarck				1.15	0 45	16
Fargo		4.18	28			
McKinney	10.40	7.70	15			
Napoleon		3.52	8-9			
Valley City		2.88	27			
Wahpeton				1.70	1 00	18
Ohio.						
Hackney		2.50	7			
Hedges		2.65	16			
Kenton				1.19	0 31	16
Pomeroy				1.68	0 40	3
Wauseon				1.03	0 35	29
Oklahoma.						
Norman		2.64	16			
Stillwater		2.58	13-14			
Pennsylvania.						
Beaver Dam		4.24	7	4.24	3 45	7
Davis Island Dam		3.12	8			
Elwood Junction		3.07	7-8			
Everett				2.00	1 00	24
Forks of Neshaminy		3.26	8-9			

TABLE XII.—*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.
Pennsylvania—Continued.	*Inches.*	*Inches.*		*Ins.*	*h. m.*	
Hamburg		2.61	3			
Mahoning				1.06	0 39	14
Point Pleasant		2.85	9			
Shawmont		2.90	8-9			
Smiths Corners		2.50	9			
Rhode Island.						
Kingston		2.62	9			
South Carolina.						
Batesburg				1.40	1 20	5
Blackville		3.69	8			
Camden				1.09	1 00	6
Charleston				1.00	0 25	22
Florence				2.03	1 30	15
Gillisonville				1.10	1 00	23
Little Mountain				1.27	0 30	3
Pinopolis		4.80	4-5			
Spartanburg				1.27	0 50	30
Statesburg				1.96	0 40	4
Trial				1.25	0 25	5
Do				1.24	1 00	25
South Dakota.						
Alexandria		2.53	1			
Armour		2.94	1			
Flandreau		3.02	1-2			
Parkston		4.00	1			
Tennessee.						
Greeneville				1.40	0 25	25
Hohenwald				1.38	1 15	23
Jackson				1.70	1 00	27
Rogersville				2.31	1 35	25
Texas.						
Bowie		2.90	11-12			
Brighton		2.67	4			
Coleman		3.60	11			
Dublin		3.22	11-12			
El Paso				1.20	1 00	30
Emory		3.40	3			
Fort Worth		2.50	3			
Fredericksburg				1.55	0 30	6
Golindo				2.05	1 45	12
Longview		2.50	3			
Marshall		2.50	4			
Palestine				1.64	1 05	6
Sanderson				1.10	0 45	12
San Marcos		2.55	3	2.55	1 15	3
Do				1.59	1 00	6
Temple		4.20	2			
Do		2.55	6			
Weatherford				1.97	1 50	3
Vermont.						
Strafford		2.70	9-10			
Vernon		3.50	9			
Virginia.						
Ashland		2.51	4-5			
Farmville		3.00	4			
West Virginia.						
Grafton		2.80	16-17			
Philippi		2.50	13			
Wisconsin						
Amherst		5.20	28			
Butternut		3.30	2-3			
Gratiot		4.50	16			
Greenbay		3.06	15-16			
Lincoln				1.96	0 45	13
Viroqua		3.19	28-29			
Waupaca		3.16	28-29			

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