CLIMATOLOGICAL DATA FOR JULY, 1913.

DISTRICT NO. 1, NORTH ATLANTIC STATES.

Prof. WILFORD M. WILSON, District Editor.

GENERAL SUMMARY.

Except in the southern part of the district July brought little relief from the droughty conditions that had become serious by the end of June. Over much of New England and most of New York the total precipitation for the two months June and July was less this year than in any other since the establishment of the Climatological Service 24 years ago. In the southern States of the district the June and July rainfall was near or above the normal, well distributed and timely in its occurrence, but in many sections in the northern States the month of July was without any rain of consequence until about the 28th. These conditions resulted in an unusually low state of the water supply, with great injury to growing crops and pastures.

Temperatures in general were seasonable, there being no unusually long periods of abnormally warm or cool weather.

The following table exhibits the leading features of meteorological interest for the various sections of the district:

States or parts of States within district No. 1.	Temperature.				Precipitation.				Average number of—	
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest total.	Least total.	Rainy days.	Clear days.
New England	69.6	+0.6	102	32	2.66	−1.33	7.56	0.58	9	16
New York	68.7	+0.3	101	33	2.14	−2.14	6.92	0.42	8	17
Pennsylvania	72.2	−0.3	101	40	3.80	−0.35	7.75	0.82	10	16
New Jersey	74.4	+0.6	100	41	2.52	−2.32	4.72	1.50	8	20
Maryland, Delaware, and District of Columbia	76.5	+0.4	102	47	2.57	−1.93	5.47	0.53	8	17
West Virginia	71.9	0.0	102	40	4.17	+0.07	7.21	2.19	11	12
Virginia	75.5	+0.7	98	45	3.45	−0.79	7.04	1.10	10	14

TEMPERATURE.

The monthly mean temperature for all stations in the district averaged about 72°, ranging from 80° at Solomons, Md., to 61.8° at Morehouseville, N. Y. At about two-thirds of the stations the monthly mean was above normal and at other stations it was below. As a rule the temperatures averaged above the normal over the coastal plains and somewhat farther inland, while a deficiency in temperature appeared in most parts of Pennsylvania and along the western limit of the district in other States.

Maximum temperatures of 100° or more were recorded by at least one station in each of the States, except Rhode Island, Connecticut, Delaware, and Virginia. The highest temperature recorded was 102° at the following stations: Franklin, N. H., and Green Spring Furnace, Md., on the 1st; Martinsburg, W. Va., on the 5th, and Frederick, Md., on the 30th. A period of hot weather that set in before the close of June continued until about the 7th, when, in most parts of the district, temperatures fell to about the seasonal average. No other noteworthy hot period occurred until the 27th–30th.

The lowest temperatures occurred on various dates, chiefly the 8th, 12th, and 26th. Minimum temperatures lower than 40° were not recorded except in the cooler parts of New York and New England. The lowest reported in the district was 32° at Houlton, Me., on the 25th.

PRECIPITATION.

The average precipitation for the district was only about 3 inches, but extensive areas in southern New England, New York, New Jersey, and smaller areas in other States received less than half that amount. In consequence, serious drought prevailed throughout the month, conditions becoming gradually worse in many places until the close, though in some instances the records show heavy rainfall about the 28th. May and June having been unusually dry, the deficiency of rainfall in July caused such injury to vegetation as has not been known for many years, except possibly in 1910. The accumulated deficiency in rainfall from May 1 to July 31 averaged 3.42 inches for the stations in the New England section, 4.73 inches for the New York section, 4.82 inches for New Jersey, and 3.20 for Maryland and Delaware. In other parts of the district the deficiency was less pronounced. In portions of north central Massachusetts the rainfall for June and July is stated to have been the least for these months in nearly 50 years. The average rainfall for July in the New York section was the least on record since the establishment of the Climatological Service.

Showers occurred with almost as great frequency as is usual in July, but as a rule they were very light. Heavy rains did not occur extensively on any date during the month, though instances of local showers amounting to an inch or more are recorded on 10 or 12 different dates. Five stations reported rainfall in excess of 2.50 inches in 24 hours. At St. Johnsbury, Vt., 4.99 inches of rain fell on the 28th; at Port Jervis, N. Y., over 2 inches of rain fell within 45 minutes on the same day. Press reports gave fewer accounts of damage from hail and lightning than are usually seen in July.

Near Hornell, N. Y., a destructive hailstorm occurred on the 13th, which was said to have been the worst in that region for many years. The damage to crops was estimated at several thousand dollars. According to the statement of the cooperative observer at Alfred, N. Y., the hail affected a belt 5 miles wide and 12 miles long, severely injuring oats, corn, apples, killing chickens, etc. Some of the pellets measured nearly an inch in length.

MISCELLANEOUS.

Though heavy local showers in a few instances caused flooding along small streams, the principal rivers were affected but little and remained nearly stationary throughout the month.

There was an abundance of sunshine, though the total amount and the percentage of the possible averaged slightly less than in June. At the regular Weather Bureau stations the amounts of sunshine varied from 376 hours at Atlantic City to 253 hours at Mount Weather, Va., or, expressed in terms of percentage of the possible sunshine, from 83 to 56.

The average number of rainy days was 9, of clear days 16, partly cloudy days 12, and cloudy days 3.

THUNDERSTORM OF JULY 30, 1913, AT WASHINGTON, D. C.

By P. C. DAY, Climatologist and Chief of Division.

On the afternoon of July 30, 1913, between 3 and 4 o'clock, there occurred one of the most severe thunderstorms that ever visited the city of Washington. While the extent of territory affected by the storm was comparatively small it presented some unusual phenomena in the matter of high winds, heavy rains, and destruction to property.

Up to the time of the occurrence of the storm the atmospheric pressure presented no marked variation from the usual conditions. The barometer was steadily falling as the result of the diurnal change and stood at about 29.9 inches when the storm broke. The day had opened clear with temperature about 76°, from which point it rapidly climbed to 94° by noon and to 97° at 2 p. m., with prospects of going even higher had not the gathering clouds interfered with its further upward march. Light variable winds, mostly from the north or west, had prevailed up to about 3 p. m., when the direction changed to north and then to northeast, the velocity increasing rapidly from 4 or 5 miles per hour to a gale of unusual force.

Clouds began to gather early in the afternoon and by 2.30 they had obscured the sun, at which time the first thunder was heard. The storm rapidly gathered force, and angry, dust-colored lower clouds formed in the north and northeast, moving rapidly southward, while the ragged edges of the more elevated clouds indicated the probability of still higher winds to follow.

Light rain began at 3 p. m., becoming torrential about 3.10 p. m., at which time the wind shifted from north to northeast, and increased greatly in velocity. At the same time heavy hail began, the rattling of which, with the brilliant flashes of lightning, the terrific thunder, the violence of the wind, the flying débris from houses and trees, and the near approach to total darkness, probably produced a more terrifying condition than was ever before experienced in the District.

At the Weather Bureau office the wind attained a velocity of 68 miles from the north and northeast from about 3.10 to 3.20 p. m., with occasional gusts that probably exceeded 70 miles, the highest velocity ever recorded at that point.

With the beginning of the rain and the increased velocity of the wind the usual rise in pressure that accompanies thunderstorms occurred, the barograph responding promptly to the increased pressure, and showing a sudden rise of nearly two-tenths of an inch. At the same time there was a rapid fall in the temperature, the change from 3 to 3.15 p. m., 15 minutes, amounting to slightly more than 30°.

The severest portion of the storm lasted about 15 minutes, during which time the fall of rain amounted to more than an inch and a half, and damage from wind and hail in the District alone probably amounted to several hundred thousand dollars.

The most significant feature of the storm was the apparent shortness of its path considering the length of the period during which it raged with such severity. From reports from postmasters and others in the immediate vicinity of Washington it seems that the storm suddenly developed its severe character near the northeastern boundary of the District, only light winds and but little rain as a rule occurring in the adjoining portions of Maryland.

The severest portion of the storm appears to have traveled in a course slightly west of south across the central part of the city, and was dissipated rapidly on reaching the hills on the Virginia side of the Potomac.

In its course through the city severe damage was wrought to many different interests. Houses were unroofed and flooded, windows on the north sides of buildings were shattered by the hail, many shade trees were broken sharply off or uprooted, while thousands of others had many of their branches torn off or badly broken. Several buildings collapsed from the force of the storm, the falling of one at Seventh and L Streets NW., causing the death of two persons and the severe injury of several others. Numerous narrow escapes from death were reported, and many persons were injured in the streets or at their homes by flying débris of various kinds.

On the river the wind was even more severe than in the city, but sufficient warning of the approach of the storm had enabled those interested to prepare for it. Some damage was done, however, to the smaller craft, and to property along the river front, the flooring of the Aqueduct Bridge being partly torn up and several persons narrowly escaping death from the flying boards. Hundreds of telephones were damaged, poles and wires were broken down, and street-car traffic was delayed.

Much damage occurred in the parks and to the shade trees throughout the city, many magnificent and noted trees being uprooted or broken off, or so badly injured as to require their removal. Outside the limits of the District the rainfall, wind, and other evidences of the storm were light, no rain falling at nearby points to the northwest and southwest, and but little beyond the first few miles on the Virginia side of the Potomac, while the severe wind was likewise confined largely within the limits of the District.

From reports received it appears that the storm began near Laurel, Md., at about 2.30 p. m., with moderate winds from the northwest, and accompanied by heavy thunder; it increased in intensity as it approached the District line and at Takoma Park rain began at 3 p. m. and continued until 4.15 p. m., accompanied by hail heavy enough to crack windows and shred leaves of vegetables and plants. At College Park, Md., rain began at 3 p. m. and ended at 5 p. m.; total fall, 0.66 inch. At Rockville, Md., it began at 2.30 p. m. and ended at 5 p. m., with 0.90 inch rain, light hail being reported east of the town. The wind was heavy from the north, but did very little damage. A trace of rain fell at Poolesville, Md., at 3 p. m., with wind from the east, but without damage. The wind was brisk southeast at Germantown, Md., but there was no evidence of the storm to the westward in Virginia. To the southeastward of the District line there was little evidence of the storm, and it appears to have soon spent its force after crossing the Potomac, as only 0.05 inch of rain, and light wind were reported from Fairfax, and there was no rain or wind at Manassas and other nearby points in Virginia.

TABLE 1.—*Climatological data for July, 1913. District No. 1, North Atlantic States.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Maine.																				
Bar Harbor	Hancock	20	27	67.8	+ 2.2	89	29	45	16	39	3.38	+ 0.67	1.23	0	6	20	7	4	sw.	William Miller.
Cornish	York	778	58	70.9	+ 1.9	99	1	43	12	43	2.12	− 2.07	0.67	0	11	11	11	9	w.	T. H. West.
Eastport	Washington	53	41	62.0	+ 2.2	87	4	48	1	33	2.68	− 0.74	0.86	0	13	7	16	8	s.	U. S. Weather Bureau.
Fairfield	Somerset	90	28	67.4	− 0.5	92	4	47	22	38	1.51	− 1.84	0.78	0	3	10	1	20	.....	E. F. Parker.
Farmington	Franklin	450	16	67.5	+ 0.1	94	1†	43	9†	42	2.90	− 0.79	1.20	0	13	11	14	6	sw.	State Normal School.
Gardiner	Kennebec	163	21	68.6	− 2.2	93	1†	47	12	40	1.62	− 1.63	0.73	0	10	24	2	5	sw.	Samuel D. Soule.
Greenville	Piscataquois	1,140	9	64.4	.....	90	4	43	9	34	5.01	+ 0.49	1.51	0	14	.....	.....	.....	.....	U. S. Weather Bureau.
Houlton	Aroostook	362	11	67.4	.....	93	5	32	25	48	1.64	− 1.06	1.30	0	5	15	5	11	nw.	Bangor & Aroostook R. R.
Lewiston	Androscoggin	185	39	70.0	+ 0.5	100	1	52	9†	38	1.53	− 2.02	0.62	0	10	13	13	5	nw.	Union Water Power Co.
Madison	Somerset	257	10	67.0	.....	99	2	44	9	39	3.07	− 1.30	1.15	0	8	26	0	5	w.	William Jardine.
Millinocket	Penobscot	386	10	67.8	.....	94	4	45	9	39	3.49	− 0.16	1.18	0	12	11	4	16	w.	F. C. Bowler.
North Bridgton	Cumberland	450	20	70.9	+ 1.4	100	1	46	12	41	2.03	− 2.31	1.14	0	10	6	23	2	sw.	G. E. Chadbourne.
Orono	Penobscot	129	44	68.6	+ 1.3	91	5	48	12†	38	5.86	+ 2.72	1.52	0	15	7	12	12	sw.	Department of Physics.
Patten	....do	550	11	65.6[d]	.....	93[d]	4	40[d]	9†	46	4.00	.....	1.00	0	4	18[d]	5[d]	4[d]	sw.	Bangor & Aroostook R. R.
Portland	Cumberland	99	42	68.6	+ 0.6	101	1	52	9	38	2.27	− 0.98	1.11	0	10	13	8	10	s.	U. S. Weather Bureau.
Presque Isle	Aroostook	.....	4	68.7	.....	91	4	41	31	36	5.18	.....	1.02	0	16	9	3	19	nw.	E. M. Libby.
Rumford Falls	Oxford	505	20	68.2	− 0.1	95	1	47	26	37	2.65	− 1.31	1.21	0	9	22	7	2	nw.	Charles A. Mixer.
Van Buren	Aroostook	510	8	63.4	.....	85	29	41	31	37	3.53	.....	0.63	0	14	11	6	14	s.	J. M. Thomas.
Winslow	Kennebec	90	18	69.8	.....	93	2†	45	22	38	1.65	− 1.16	0.85	0	9	15	10	6	w.	Hollingsworth & Whitney Co.
New Hampshire.																				
Alstead Center	Cheshire	1,120	9	68.5	− 3.2	95	1	46	12	35	3.71	− 0.68	0.70	0	12	22	7	2	sw.	Frank Dewing.
Benton	Grafton	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	State Sanatorium.
Bethlehem	....do	1,470	21	66.0	− 1.1	93	1	43	12	37	4.08	− 0.02	1.41	0	13	15	9	7	sw.	Benjamin Tucker.
Concord	Merrimack	350	53	70.0	+ 0.9	99	1	45	12	43	1.25	− 2.54	0.58	0	10	12	13	6	nw.	U. S. Weather Bureau.
Durham	Stafford	88	18	70.6	+ 0.7	101	1	47	1 3	44	0.98	− 2.58	0.56	0	6	22	4	5	nw.	Agricultural Exp. Station.
Franklin	Merrimack	440	14	69.8	− 0.1	102	1	43	12†	47	3.82	+ 0.60	2.75	0	7	22	6	3	nw.	Dr. P. C. Webster.
Grafton	Grafton	863	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. R. Kimball.
Hanover	....do	603	79	68.9	− 0.3	98	1	40	12	45	3.16	− 0.50	1.15	0	13	11	13	7	s.	Dartmouth College.
Keene	Cheshire	506	28	69.5	+ 1.2	100	1	40	12†	47	2.01	− 2.27	0.62	0	11	15	13	3	sw.	Samuel Wadsworth.
Nashua	Hillsboro	125	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jackson Co.
Newton	Rockingham	.....	25	69.7	+ 0.5	97	1	44	12	39	1.09	− 2.53	0.72	0	6	11	17	3	sw.	W. C. Gale.
Plymouth	Grafton	500	25	67.2	− 0.4	96	1	39	12	44	2.85	− 0.57	1.05	0	7	19	2	10	w.	Hattie G. Trow.
Vermont.																				
Bloomfield	Essex	.....	6	65.4	.....	93	1	39	12	42	4.74	.....	1.00	0	19	12	13	6	s.	Lyman Falls Power Co.
Cavendish	Windsor	910	10	69.0[a]	.....	101[a]	1	40[a]	12	48[a]	2.83	.....	0.60	0	15	17[a]	9[a]	4[a]	w.	E. D. Kingsbury.
Chelsea	Orange	840	18	66.0	− 1.2	92	4†	36	12	50	2.93	− 1.21	1.98	0	9	13	7	11	s.	W. F. Dewey.
Manchester	Bennington	980	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	N. M. Canfield.
Somerset	Windham	2,096	1	63.3	.....	91	1	33	12	46	3.76	.....	0.93	0	12	15	5	11	sw.	J. Albert Holmes.
St. Johnsbury	Caledonia	711	20	68.2	+ 0.1	95	1	40	12	44	7.56	+ 3.25	4.99	0	12	7	20	4	sw.	Fairbanks Museum.
Woodstock	Windsor	700	21	68.8	+ 0.5	95	1	42	12	41	3.08	− 0.25	0.88	0	6	11	7	13	.....	John S. Eaton.
Massachusetts.																				
Amherst	Hampshire	222	24	71.6	+ 1.1	100	1	41	12	45	1.59	− 2.98	0.86	0	9	20	8	3	s.	Agricultural Exp. Station.
Blue Hill	Norfolk	640	29	71.0	+ 1.8	92	1	54	7†	29	2.00	− 1.79	0.89	0	9	11	9	11	s.	Blue Hill Observatory.
Boston	Suffolk	124	43	73.8	+ 2.5	96	1	60	26	27	2.69	− 0.67	0.91	0	9	11	15	5	sw.	U. S. Weather Bureau.
Chestnut Hill	....do	124	33	73.4	+ 1.8	98	1	49	26	34	2.25	− 1.37	0.66	0	7	27	0	4	.....	Metropolitan Water Board.
Clinton	Worcester	370	17	71.1	.....	89	1†	53	7	32	1.96	.....	0.87	0	12	.....	.....	.....	.....	Do.
Concord	Middlesex	139	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred A. Tower.
Fall River	Bristol	200	47	72.5	+ 1.8	90	2	58	7	22	2.87	− 0.73	1.13	0	10	13	17	1	sw.	C. V. S. Remington.
Fitchburg	Worcester	550	30	72.6	+ 2.1	98	1	50	8	33	1.74	− 2.48	0.75	0	8	22	4	5	w.	Dr. A. P. Mason.
Framingham	Middlesex	160	33	72.5	+ 1.2	96	1	48	12	36	4.02	+ 0.37	1.36	0	10	.....	.....	.....	.....	Metropolitan Water Board.
Hyannis**	Barnstable	31	22	71.0	− 1.8	92	2	54	26	27	0.92	− 1.88	0.42	0	4	24	7	0	sw.	C. F. Sleeper.
Lawrence	Essex	51	29	72.4	− 0.2	97	1	50	26	34	1.09	− 2.23	0.39	0	6	10	19	2	sw.	Essex Co.
Lowell	Middlesex	100	28	73.9	+ 2.4	94	1†	53	12	33	1.21	− 2.48	0.58	0	8	.....	.....	.....	.....	Props. Locks & Canals.
Middleboro	Plymouth	53	27	70.2[a]	+ 1.0	91	2	46[b]	12	34[b]	1.80	− 1.28	1.07	0	6	6	20	5	sw.	A. R. Gurney.
Nantucket	Nantucket	47	27	69.8	+ 2.3	87	2	58	4	22	0.58	− 2.10	0.57	0	4	15	15	1	sw.	U. S. Weather Bureau.
New Bedford	Bristol	88	101	71.9	+ 2.5	93	2	58	7†	24	1.87	− 1.47	0.83	0	4	22	6	3	sw.	City engineer.
Norfolk	Norfolk	244	10	70.8	.....	95	5	39	7	39	4.51	.....	1.32	0	6	17	12	2	w.	Ruby H. Martyn.
Plymouth	Plymouth	.....	28	69.7	.....	93	3	54	8†	31	1.64	.....	0.70	0	9	21	7	3	w.	Laura B. Knapp.
Provincetown	Barnstable	40	26	71.2	− 1.5	92	2	57	8	27	1.60	− 1.33	0.76	0	3	24	0	7	sw.	Gideon Bowley.
Rockport	Essex	25	11	68.3	.....	90	1	54	14	34	1.99	.....	0.75	0	7	16	10	5	sw.	C. F. P. Bearse.
Rutland	Worcester	1,160	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	State Sanatorium.
Turners Falls	Franklin	200	22	71.0	+ 1.1	98	4†	46	12	37	1.02	− 3.31	0.41	0	8	17	8	6	.....	Turners Falls Co.
Westboro	Worcester	298	39	73.9	+ 1.8	97	1†	47	26	34	3.27	− 0.32	1.12	0	8	.....	.....	.....	.....	G. S. Newcomb.
Williamstown	Berkshire	711	32	69.1	+ 0.5	95	1	44	12	38	3.88	− 0.71	1.08	0	10	11	14	6	w.	Williams College.
Worcester	Worcester	518	21	72.6	+ 1.2	94	1	57	14	25	2.56	− 1.41	0.69	0	8	13	15	5	sw.	G. W. Swan.
Rhode Island.																				
Block Island	Newport	26	33	70.4	+ 2.3	88	2	60	12	23	1.23	− 1.08	0.47	0	9	13	15	3	sw.	U. S. Weather Bureau.
Bristol	Bristol	53	27	71.1	+ 1.3	87	2	56	26	24	2.69	− 0.44	0.87	0	8	25	4	2	sw.	N. G. Herreshoff.
Kingston	Washington	250	24	69.2	0	92	2	48	8	32	2.94	− 0.82	0.86	0	6	16	12	3	sw.	Nathaniel Helme.
Narragansett Pier	Newport	22	31	69.4	− 0.5	94	2	51	8	27	2.29	− 1.03	0.71	0	7	29	1	1	sw.	U. S. Weather Bureau.
Providence	Providence	182	9	73.4	0	93	1†	57	8†	25	2.29	− 1.07	0.50	0	9	11	18	2	sw.	Do.
Connecticut.																				
Bridgeport	Fairfield	20	20	73.9	.....	96	30	50	8	33	2.05	.....	0.83	0	9	16	13	2	s.	William Jennings.
Canton	Hartford	900	52	71.0	+ 2.6	96	1	46	12	37	1.36	− 3.51	0.42	0	5	16	11	4	nw.	G. J. Case.
Colchester	New London	370	27	72.1	+ 2.1	94	30	45	8	38	1.70	− 2.42	0.50	0	7	16	7	8	w.	S. P. Willard.
Cream Hill	Litchfield	1,300	17	69.6	+ 0.6	93	1	49	7†	31	1.37	− 4.69	0.32	0	9	23	4	4	sw.	C. L. Gold.
Danielson	Windham	300	11	71.6	.....	94	6	48	12	35	3.18	.....	1.11	0	7	24	6	1	s.	F. E. Bitgood.
Hartford	Hartford	159	9	73.2	+ 1.6	95	1	53	8†	29	1.83	− 2.28	0.61	0	8	6	20	5	s.	U. S. Weather Bureau.
Hawleyville	Fairfield	600	15	70.7	− 0.2	93	1†	45	8†	36	2.25	− 1.70	1.05	0	7	17	12	2	nw.	C. B. Hawley.
New Haven	New Haven	127	126	73.5	+ 1.6	95	30	54	12	25	1.69	− 3.09	0.48	0	9	9	18	4	s.	U. S. Weather Bureau.
New London	New London	47	43	74.4	+ 3.9	95	5†	54	12	31	1.71	− 2.34	0.51	0	7	21	6	4	sw.	Thos. C. Dillon.
North Grosvenor Dale	Windham	409	23	70.4	− 0.6	92	1†	43	11	37	1.76	− 2.60	0.73	0	8	18	11	2	sw.	Grosvenor Dale Co.
Norwark	Fairfield	116	23	73.3	+ 2.2	97	30	45	8	35	1.04	− 4.09	0.35	0	5	21	9	1	sw.	George C. Comstock.
Southington	Hartford	140	44	71.2	+ 0.1	93	1	43	8	38	1.20	− 3.21	0.45	0	6	14	17	0	sw.	Luman Andrews.
Storrs	Tolland	640	25	70.8	+ 2.1	90	1†	47	12	36	4.25	− 0.77	1.58	0	8	21	5	5	sw.	Agricultural Exp. Station.
Torrington	Litchfield	625	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. E. H. Forbes.
Voluntown	New London	260	28	69.2	− 1.0	93	30	39	8†	44	1.61	− 2.64	0.70	0	5	21	8	2	sw.	J. L. Herbert.
Waterbury	New Haven	400	38	73.0	+ 1.3	97	1†	45	8	38	1.36	− 3.80	0.38	0	9	.....	.....	.....	.....	N. J. Welton.

TABLE 1.—*Climatological data for July, 1913. District No. 1*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
New York.																				
Addison	Steuben	1,000	23	70.5	+ 0.2	98	1	43	22	45	2.02	− 1.37	0.46	0	14	21	7	3	sw.	Dr. H. R. Ainsworth.
Albany	Albany	97	92	72.8	+ 0.8	99	1	49	12	33	1.82	− 2.08	0.63	0	10	18	11	2	s.	U. S. Weather Bureau.
Alfred	Allegany	1,976	18	67.4	−0.2	94	1	42	12	36	2.03	− 1.29	0.60	0	9					F. S. Place.
Amsterdam	Montgomery	277	9	70.6		98	1	42	12	42	2.64		0.70	0	12	17	10	4	w.	Emery Elwood.
Athens	Greene	90	11	73.2	+ 1.0	100	1	47	12	37	1.86	− 1.37	1.12	0	6	15	14	2	sw.	E. C. Brooks.
Ballston Lake	Saratoga	400	9	69.2		95	1	41	12	40	3.53		1.32	0	10	19	8	4	w.	Geo. R. Schaub.
Bedford	Westchester	450	22	73.4	+ 0.8	95	30	50	8†	34	2.17	− 2.15	0.65	0	10	7	22	2		Dr. L. Rosenberg.
Beerston	Delaware	1,214	1	67.4		96	1	38	12	44	2.05		0.64	0	11	21	8	2	w.	John Q. Barlow.
Binghamton	Broome	875	22	69.3	− 0.6	97	1	46	12	40	1.55	− 1.99	0.73	0	10	6	14	11	sw.	U. S. Weather Bureau.
Bouckville	Madison	1,350	16	69.0	+ 1.0	93	1†	46	12†	39	1.82	− 2.83	0.57	0	10	14	8	9	nw.	L. W. Griswold.
Boyds Corners	Putnam	560	31								2.21	− 2.49								Thomas Manning.
Carmel	do	500	21	71.9	− 0.3	95	30	46	8	37	1.65	− 3.53	0.58	0	8	21	7	3	nw.	Do.
Chatham	Columbia	470	12	72.7	+ 1.8	101	1	46	8	35	2.91	− 1.09	1.06	0	9	19	10	2	n.	Morton R. Tank.
Cooperstown	Otsego	1,250	59	67.2	− 0.9	92	1	43	12	36	2.31	− 2.23	0.64	0	11	24	7	0	s.	Miss Elizabeth C. Keese.
Corinth	Saratoga	542	11								1.23		0.35	0	5					A. M. Hollister.
Cortland	Cortland	1,129	51	69.4	+ 2.3	93	1	43	22	40	1.72	− 3.16	0.68	0	10	21	8	2	sw.	F. G. Baker.
Cutchogue	Suffolk	32	14	73.4	+ 1.4	96	30	50	8	33	0.72	− 2.63	0.28	0	7	19	12	0	sw.	Wm. A. Fleet.
De Ruyter	Madison	1,300	10	65.8	− 1.0	91	1†	42	11†	40	2.10	− 2.30	0.82	0	6	16	6	9	nw.	B. D. Crandall.
Elmira	Chemung	863	30	71.6	− 0.6	97	1	51	15	34	1.86	− 1.51	1.03	0	9	12	12	7	sw.	T. A. Brown.
Glens Falls	Warren	340	22	71.0	+ 0.1	100	1	45	8	41	1.50	− 2.52	0.92	0	6	12	4	15	sw.	Prof. C. L. Williams.
Gloversville	Fulton	850	21	68.6	− 0.3	95	1†	40	12	40	2.03	− 2.16	0.54	0	7	15	15	1	w.	W. L. McLean.
Greenfield Center	Saratoga	314	15	69.2	− 0.8	96	1†	42	12	39	2.69	− 1.34	1.20	0	8	15	14	2	sw.	S. E. Darrow.
Griffin Corners	Delaware	2,260	13																	Harold O. Judd.
Haskinville	Steuben		18								1.66		0.45	0	8					W. G. Collins.
Homer	Cortland	1,096	23																	C. C. Mortimer.
Hoosick Falls	Rensselaer	410	11								3.11		1.05	0	8					S. L. Cluett.
Indian Lake	Hamilton	1,705	14	64.4	− 0.9	100	1	33	12	49	3.03	− 1.04	1.50	0	9	17	6	8	w.	Lester Severle, jr.
Jeffersonville	Sullivan	1,240	10	68.2		97	1	41	8	40	4.48		0.99	0	10	20	10	1	w.	Chas. Wilfert, jr.
Liberty	do	2,300	31																	Dr. H. M. King.
Little Falls	Herkimer	924	15	70.1	+ 0.7	95	4	45	12	36	1.35	− 3.41	0.85	0	4	21	10	0	w.	O. J. Dempster.
Mohonk Lake	Ulster	1,245	17	71.4	+ 1.7	95	1	51	7	28	1.11	− 4.52	0.25	0	8	12	15	4	se.	Daniel Smiley.
Morehouseville	Hamilton	1,697	5	61.8		88	1	35	8†	43	2.73		1.09	0	5	26	3	2	w.	T. C. Remonda.
Morrisville	Madison	1,325	1	68.5		99	3	40	12	45	0.42		0.30	0	3	23	6	2	nw.	I. M. Charlton.
Mount McGregor	Saratoga	1,060	1	70.0		94	1	52	11	26	2.13		0.49	0	7	11	15	5		W. S. Stanton.
Mount Hope	Westchester	200	16	74.7	+ 1.6	92	1†	52	26	32	2.30	− 2.20	0.73	0	6	10	19	2		W. A. Cornelius.
Newark Valley	Tioga	825	26								1.58	− 2.62	0.58	0	9					Lyman D. Clinton.
New Berlin	Chenango	1,090	6								1.31		0.58	0	7					Chas. F. Sarle.
New Lisbon	Otsego	1,234	23	65.0	− 0.5	92	1†	37	12†	44	2.31	− 2.72	0.89	0	10	9	12	10	nw.	G. A. Yates.
New York City	New York	314	88	75.0	+ 1.5	95	30	57	7	23	3.02	− 1.52	1.06	0	7	15	9	7	nw.	U. S. Weather Bureau.
North Creek	Warren	1,002	5																	W. G. Kenwell.
Northville	Fulton	742	11								2.72		1.52	0	6					P. C. Pickard.
Oneonta	Otsego	1,112	19	69.4	− 0.7	97	1	43	12†	42	3.08	− 1.64	1.72	0	6	18	9	4	nw.	H. W. Lee.
Oxford	Chenango	916	48	68.6	+ 0.2	94	1	44	12†	37	1.96	− 2.20	0.59	0	7	17	12	2	w.	J. P. Davis.
Oyster Bay	Nassau	40	9																	Prof. Thos. Colby.
Port Jervis	Orange	470	29	72.4	+ 1.2	101	1	47	12	42	6.92	+ 1.60	2.89	0	9	15	11	5	sw.	W. H. Nearpass.
Roslyn	Nassau	215	1	74.1		97	2	55	7†	31	1.56		0.36	0	10	24	5	2	sw.	C. H. Hechler.
Salisbury	Herkimer	1,526	16	64.7	− 3.4	89	1	36	12	39	3.29	− 1.22	0.93	0	9	19	12	0	w.	Joseph Ryan.
Scarsdale	Westchester	200	9	72.7		94	2†	53	7†	29	2.45		0.55	0	7	23	7	1	nw.	C. H. Wilmarth.
Setauket	Suffolk	40	28	73.4	+ 1.3	92	30	53	8	28	0.91	− 3.54	0.27	0	5	22	8	1	w.	Selah B. Strong.
Sharon Springs	Schoharie	821	0	70.0		96	1	41	12	43	2.82		0.90	0	7	15	14	2	s.	Wm. M. Kling.
Sherburne	Chenango		6								1.43		0.37	0	7					D. G. Trow.
Southampton	Suffolk	36	12	72.0	+ 1.2	92	2†	50	8	25	0.78	− 1.94	0.33	0	6	24	7	0	nw.	W. L. Jagger.
Southeast Reservoir	Putnam	310	18								2.47	− 2.37								Thomas Manning.
South Edmeston	Otsego	1,300	1	67.4		94	1†	38	12	45	1.38		0.57	0	8	16	9	6	nw.	F. H. Bilderbeck.
Spier Falls	Saratoga	400	12	70.7	+ 1.0	99	1	43	11	41	1.05	− 2.27	0.35	0	6	12	17	2	sw.	Geo. E. Fifield.
Trenton Falls	Oneida	751	10								1.68		0.88	0	6					C. W. Young.
Tribeshill	Montgomery	268	10								2.70		0.70	0	7					R. S. Marshall.
Troy	Rensselaer		0													17	4	10		David B. Plum.
Utica	Oneida	537	47								3.51	− 1.11	0.85	0	10					W. E. Young.
Wading River	Suffolk	112	7	72.6		96	30	44	8	39	0.60		0.20	0	7	26	5	0	sw.	H. B. Fullerton.
Wappingers Falls	Dutchess	110	23	73.2	+ 0.3	95	1	52	11	33	1.44	− 3.87	0.28	0	8	16	15	0	se.	H. C. Townsend.
Warwick	Orange	538	19								2.90	− 1.81	1.48	0	10	19	10	2		John W. Sly.
Waverly	Tioga	824	31	70.4	0.0	97	1	41	20†	46	1.23	− 2.65	0.37	0	11	11	14	6	sw.	J. F. Shoemaker.
West Berne	Albany	946	14	68.5	− 1.1	95	1	37	12	49	2.45	− 1.69	0.65	0	8	12	15	4	sw.	W. J. Haverly.
West Point	Orange	167	64	75.0	+ 1.0	100	1	54	12	35	1.96	− 2.66	0.78	0	7	12	12	7	w.	U. S. Military Academy.
Windham	Green	1,520	13	67.1	− 0.3	94	1	42	8†	39	2.28	− 1.32	0.57	0	8	17	12	2		A. R. Mott.
Pennsylvania.																				
Altoona	Blair	1,181	25	69.8	− 1.8	93	1	47	11	31	4.84	+ 1.21	1.86	0	13	19	9	3	w.	S. A. Galley.
Bethlehem	Northampton	260	12	75.0	+ 0.9	98	30	55	26	33	2.50	− 2.14	2.35	0	7	16	13	2	w.	Chas. H. Rominger.
Catawissa	Columbia	470	4	71.8		96	1	52	8†	30	3.98		1.09	0	10	21	7	3		Wm. G. Yetter.
Drifton	Luzerne	1,633	15	68.3	− 0.5	95	1	46	15	35	4.50	+ 0.48	0.88	0	15	15	13	3	w.	Eckley B. Coxe, jr.
Doylestown	Bucks	347	23								6.04	+ 0.82	4.55	0	5					Alfred W. Walton.
Emporium	Cameron	1,050	26	68.0	− 2.5	92	1	44	22	35	6.31	+ 1.85	1.75	0	10	17	9	5	w.	T. B. Lloyd.
Ephrata	Lancaster	384	13	73.6	− 1.0	97	29	52	26	30	2.06	− 2.34	1.06	0	7	20	7	4	w.	W. L. Frantz.
Everett	Bedford	1,080	15	70.6	− 1.3	95	1	45	8	35	3.91	− 0.21	0.60	0	11	4	21	6	nw.	B. L. Steckman.
George School	Bucks	184	6	73.4		96	2†	52	8†	35	3.71		1.26	0	9	20	9	2	nw.	N. W. Swayne.
Gettysburg	Adams	600	39	74.6	+ 0.8	101	1†	49	8	36	3.87	+ 0.40	1.02	0	14	13	15	3	nw.	Col. E. B. Cope.
Gordon	Schuylkill	804	9	69.6		97	1	44	8†	38	6.87		2.08	0	14	22	6	3	w.	Capt. J. G. Johnson.
Hamburg	Berks	380	17	73.5	− 0.8	99	29	51	9	36	2.57	− 2.55	1.00	0	4	21	1	9	sw.	W. J. Kalbach.
Hanover	York	600	9	75.9		101	1	51	8	34	3.30		1.00	0	12	20	9	2	s.	Miss Mabel Champlin.
Harrisburg	Dauphin	361	25	75.6	+ 1.1	98	1	57	26	28	2.92	− 0.95	1.08	0	9	9	14	8	nw.	U. S. Weather Bureau.
Huntingdon	Huntingdon	650	25	71.8	− 0.2	98	1	45	8	37	3.81	− 0.26	1.16	0	12	15	11	5	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	6	72.7		99	1	44	8	40	2.69		0.45	0	13	14	8	9	w.	H. Somers Fischer.
Lancaster	Lancaster	255	20	73.0		99	30	49	8	36	1.88	− 0.98	0.72	0	10	22	6	3	s.	F. H. Shaw.
Lawrenceville	Tioga	1,006	15	69.0	− 1.1	98	1	40	22	45	2.65	− 1.42	0.70	0	7	16	12	3		C. P. Darling.
Lebanon	Lebanon	458	26			101	29	60	13†	37	0.82	− 3.21	0.21	0	7	24	2	5	w.	Harry M. Schott.
Le Roy	Bradford	1,400	24	69.1	− 0.8	95	1	48	7	28	3.84	− 0.06	1.65	0	13	14	12	5	sw.	G. W. T. Warburton.
Lewisburg	Union	450	39	74.6	+ 1.5	99	1	53	6	45	5.90	+ 1.83	2.20	0	10	28	0	3		Prof. W. G. Owens.
Lock Haven	Clinton	560	25	72.2	− 1.1	97	1	48	22	39	7.41	+ 3.20	2.00	0	9	6	20	5	w.	Prof. J. A. Robb.
Marion	Franklin	640	9	75.5		101	1	53	26	40	3.67		0.95	0	12	18	9	4		Hon. C. B. Hege.
Mauch Chunk	Carbon	634	24	72.0	− 0.5	98	1	49	12†	35	4.19	− 0.80	1.02	0	10	21	6	4	w.	F. C. Wintermute.
Mifflintown	Juniata	445	9	71.5		98	1	49	8†	39	2.92		0.74	0	12	17	9	5	w.	Wellington Smith.
Milford	Pike	455	10	69.2	− 1.4	96	4	44	8†	39	4.83	− 1.35	1.36	0	13	14	16	1	nw.	Mrs. Alla Doughty.

TABLE 1.—*Climatological data for July, 1913. District No. 1*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
***Pennsylvania*—Contd.**																				
Montrose	Susquehanna	1,658	9	66.9	.....	93	1	45	11†	32	3.35	.....	0.47	0	12	18	11	2	w.	Silas Jagger.
New Germantown	Perry	873	9	.....	.....	.....	.....	50	8†	.....	1.32	.....	0.40	0	5	19	0	12	w.	Ed. C. Johnston.
Philadelphia	Philadelphia	117	42	78.0	+ 2.2	97	2	61	7	25	4.29	− 0.04	1.40	0	9	13	14	4	nw.	U. S. Weather Bureau.
Reading	Berks	280	40	75.6	+ 0.1	97	29	56	26	28	2.35	− 1.87	1.21	0	9	11	11	9	nw.	Do.
Scranton	Lackawanna	805	13	71.6	− 0.2	96	1	52	26	31	4.97	+ 1.14	1.58	0	10	12	13	6	s.	Do.
Selinsgrove	Snyder	455	25	72.6	− 1.1	99	1	50	8†	42	7.00	+ 2.59	2.99	0	11	0	27	4	nw.	J. M. Boyer, C. E.
Spring Mount	Montgomery	155	24	.....	.....	.....	.....	.....	.....	.....	2.13	− 3.10	0.81	0	8	.....	.....	.....	.....	James F. Smith.
State College	Center	1,191	25	70.8	+ 0.1	93	1	50	11	30	4.81	+ 0.89	1.44	0	11	.....	.....	.....	w.	Prof. Wm. Frear.
Stroudsburg	Monroe	425	3	71.4	.....	96	1	46	12	37	2.31	.....	0.66	0	9	18	11	2	sw.	J. Clyde LeBar.
Towanda	Bradford	754	18	70.0	− 0.9	96	1	41	22	42	2.14	− 1.72	0.55	0	12	17	6	8	nw.	Hiram E. Bull, C. E.
West Chester	Chester	455	59	76.2	+ 2.0	96	2†	57	7	27	2.90	− 2.02	0.93	0	12	18	12	1	nw.	J. C. Green, D. D. S.
Williamsport	Lycoming	530	23	72.2	− 0.9	97	1	52	11†	30	4.74	+ 0.74	1.67	0	11	24	0	7	nw.	Henry H. Guise.
New Jersey.																				
Asbury Park	Monmouth	22	25	72.0	− 0.9	89	2†	58	7†	28	1.96	− 3.29	0.51	0	9	16	14	1	nw.	H. E. Denegar.
Atlantic City	Atlantic	16	40	74.1	+ 1.6	90	19	59	8	23	1.56	− 2.22	0.52	0	8	16	11	4	sw.	U. S. Weather Bureau.
Bayonne	Hudson	50	23	75.4[c]	+ 1.0	96[c]	1†	57[c]	7	28[c]	1.68	− 3.45	0.40	0	8	.....	.....	.....	se.	Erskine R. Eadie.
Belvidere	Warren	289	23	73.6	+ 0.9	97	1	52	8†	33	2.78	− 2.82	0.87	0	8	23	6	2	.....	Samuel J. Hixson.
Bergen Point	Hudson	37	16	75.0	+ 1.6	95	2†	57	7†	28	3.07	− 2.44	1.15	0	8	10	21	0	nw.	Wm. H. Mitchell, M. D.
Boonton	Morris	230	23	.....	.....	.....	.....	.....	.....	.....	2.16	− 3.30	0.77	0	7	.....	.....	.....	.....	Joseph White.
Bridgeton	Cumberland	30	32	77.7	+ 0.6	98	2†	55	8	32	2.09	− 2.34	0.83	0	6	24	4	3	w.	Henry A. Jorden.
Burlington	Burlington	12	27	75.7	.....	97	2	57	26	31	3.83	− 1.20	1.16	0	6	27	1	3	nw.	D. S. B. McCoy.
Cape May City	Cape May	17	35	74.3	+ 0.9	91	2	61	16	24	3.46	− 0.32	1.46	0	7	15	16	0	s.	U. S. Weather Bureau.
Charlotteburg	Passaic	719	21	70.9	+ 1.4	96	1	41	12	39	1.89	− 2.99	0.46	0	8	18	13	0	nw.	George S. Briggs.
Chatham	Morris	234	11	.....	.....	.....	.....	.....	.....	.....	1.70	− 3.21	0.40	0	7	.....	.....	.....	.....	M. A. Butler.
Clayton	Gloucester	126	20	74.7	− 1.3	97	2	55	8	33	3.55	− 0.72	1.04	0	7	27	3	1	nw.	William T. Farley.
Culvers Lake	Sussex	848	12	.....	.....	.....	.....	.....	.....	.....	4.72	− 0.04	1.80	0	12	23	6	2	e.	Brice E. Riker.
Dover	Morris	600	29	71.1	− 0.3	95	1	47	8†	36	2.96	− 2.52	1.04	0	9	9	17	5	.....	William C. Harris.
Elizabeth	Union	45	34	74.4	− 1.1	100	30	44	26	39	1.58	− 3.68	0.61	0	8	20	11	0	nw.	L. B. Bonnett.
Flemington	Hunterdon	140	25	74.6	+ 0.7	98	30	53	9	34	2.79	− 2.17	1.14	0	8	22	8	1	sw.	Hiram E. Deats.
Haddonfield	Camden	75	26	75.1	− 0.4	99	2	56	26	30	1.81	− 2.49	0.68	0	11	12	18	1	nw.	Charles F. Richardson.
Hammonton	Atlantic	103	15	.....	.....	.....	.....	.....	.....	.....	2.10	− 2.59	0.92	0	7	.....	.....	.....	.....	G. F. Lenz.
Highwood	Bergen	90	26	72.6	+ 0.1	95	1	48	8†	34	3.36	− 2.01	2.35	0	8	11	14	6	nw.	Charles J. Bates.
Imlaystown	Monmouth	107	25	75.2	0.0	100	2	52	12	39	2.80	− 2.22	1.35	0	7	20	4	7	s.	H. E. Bullock.
Indian Mills	Burlington	76	24	74.8	− 0.3	99	2	50	26	39	2.42	− 1.64	0.64	0	7	17	13	1	sw.	James Armstrong.
Jersey City	Hudson	10	15	77.0	+ 2.3	98	2	58	7	28	2.05	− 2.73	0.81	0	9	15	14	2	nw.	Samuel K. Pearson, jr.
Lakewood	Ocean	54	11	74.0[b]	+ 0.9	97[b]	1	54[b]	12	32[b]	2.08	− 2.39	0.81	0	7	.....	.....	.....	.....	Ralph Robertson.
Layton	Sussex	550	14	70.0	− 0.2	98	1	44	12	40	3.80	− 0.63	0.89	0	9	27	4	0	w.	Warren C. Hursh.
Little Falls	Passaic	175	11	.....	.....	.....	.....	.....	.....	.....	3.81	− 1.78	1.52	0	9	.....	.....	.....	.....	A. Sweetman.
Long Branch	Monmouth	30	6	72.2	.....	95	13	54	26	32	2.91	.....	0.95	0	10	21	9	1	s.	Wm. D. Martin, jr.
Mahwah	Bergen	312	11	.....	.....	.....	.....	.....	.....	.....	1.51	− 3.86	0.50	0	5	.....	.....	.....	.....	Charles L. Barker.
Moorestown	Burlington	75	51	75.0	+ 0.2	96	2	56	16	32	2.68	− 1.90	1.12	0	6	22	8	1	sw.	George L. Gillingham.
Newark	Essex	159	70	77.0	+ 2.7	100	30	58	7	30	1.94	− 2.79	0.59	0	10	19	5	7	sw.	Prof. William Weiner.
Northfield	Atlantic	25	6	.....	.....	.....	.....	.....	.....	.....	2.07	.....	0.71	0	7	.....	.....	.....	.....	William L. Flick.
Paterson	Passaic	80	42	75.4	+ 1.1	98	30	55	12	31	2.35	− 2.98	0.57	0	13	9	22	0	s.	Heber A. Probert.
Phillipsburg	Warren	363	23	74.6	+ 0.6	98	1	53	8†	36	3.16	− 1.69	2.34	0	9	22	4	5	nw.	D. W. Smith.
Plainfield	Union	100	27	75.2	+ 1.3	100	30	52	8†	35	1.75	− 3.65	0.52	0	8	15	13	3	sw.	John Neagle.
Pleasantville	Atlantic	26	15	.....	.....	.....	.....	.....	.....	.....	1.88	− 2.26	0.88	0	6	25	6	0	.....	Lincoln Van Gilder.
Pompton Plains	Morris	195	11	.....	.....	.....	.....	.....	.....	.....	2.50	− 3.05	1.19	0	6	.....	.....	.....	.....	M. S. Taylor.
Somerville	Somerset	60	30	74.2	+ 0.3	99	30	50	8†	39	3.37	− 1.76	1.67	0	7	24	4	3	nw.	A. A. Macdonald.
South Orange	Essex	200	43	74.2	+ 1.1	94	1†	54	26	29	1.51	− 3.61	0.50	0	6	20	8	3	nw.	Dr. Wm. J. Chandler.
Sussex	Sussex	442	23	74.0[a]	+ 2.3	97	1	48[b]	12†	35[b]	3.27	− 1.25	0.79	0	9	22	3	6	sw.	George Dymock.
Trenton	Mercer	63	42	75.6	− 0.5	97	30	58	7	27	1.50	− 3.85	0.54	0	8	16	8	7	sw.	U. S. Weather Bureau.
Tuckerton	Ocean	23	20	75.1	+ 1.0	95	2	52	8	33	2.53	− 1.37	1.07	0	8	23	8	0	sw.	Frank R. Austin.
Vineland	Cumberland	118	44	76.2	− 0.2	99	30	55	8†	32	2.24	− 2.27	1.33	0	6	19	12	0	sw.	Alfred Chalmers.
Woodbine	Cape May	43	22	75.6	+ 1.7	96	3	53	26	35	2.76	− 1.26	1.70	0	6	30	0	1	sw.	Prof. R. D. Maltby.
West Virginia.																				
Bayard	Grant	2,500	11	68.6	+ 1.0	92	1†	40	8	41	7.21	+ 2.33	1.32	0	15	12	15	4	w.	Solomon Clark.
Burlington	Mineral	875	19	72.0	− 1.0	95	1	46	8	44	3.27	− 0.43	1.05	0	9	8	19	4	w.	J. W. Vandiver.
Franklin	Pendleton	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred Calhoun.
Lost City	Hardy	.....	7	70.3	.....	87	1	48	8	26	4.04	.....	1.38	0	13	14	15	2	n.	B. D. Hinegardner.
Martinsburg	Berkeley	435	21	75.8	0	102	5	53	8	33	2.81	− 1.25	1.44	0	12	21	8	2	nw.	G. W. Van Metre, C. F.
Moorefield	Hardy	900	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John C. Fisher.
Romney	Hampshire	824	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. F. Staub.
Upper Tract	Pendleton	1,230	15	72.6	+ 0.1	95	1	45	8†	38	3.50	− 0.34	1.37	0	6	5	23	3	w.	J. M. Mallow.
Maryland.																				
Annapolis	Anne Arundel	45	41	79.3	+ 1.0	101	2	61	7	26	2.12	− 2.97	0.60	0	9	10	3	18	s.	U. S. Naval Academy.
Baltimore	Baltimore	115	43	78.6	+ 1.3	98	2	61	7	24	2.63	− 2.19	0.76	0	10	10	17	4	s.	U. S. Weather Bureau.
Cambridge	Dorchester	25	15	79.2	+ 0.3	100	28	56	26	32	1.57	− 3.71	0.46	0	8	12	18	1	nw.	T. E. Keenan.
Cheltenham	Prince George	230	13	76.6	+ 0.7	97	2†	50	8	33	1.54	− 2.67	0.36	0	8	19	5	7	sw.	George Hartnell.
Chestertown	Kent	80	27	77.0	+ 1.1	97	29	58	8†	28	1.47	− 2.69	0.65	0	5	16	15	0	s.	M. P. Thomas.
Chewsville	Washington	530	16	75.0	+ 0.5	99	1†	47	8	36	2.43	− 1.43	0.76	0	12	12	19	0	sw.	D. Paul Oswald.
Clear Spring	....do	650	15	71.6	− 2.2	95	1	54	7†	32	3.83	− 0.43	1.11	0	11	18	12	1	w.	W. W. Frantz.
Coleman	Kent	80	13	77.4	+ 0.5	97	2†	59	7	30	2.16	− 2.42	1.00	0	6	21	7	3	sw.	J. S. Harris.
College Park	Prince George	170	22	76.6	+ 1.3	100	29	48	8	40	1.44	− 3.21	0.66	0	7	19	10	2	s.	Prof. H. J. Patterson.
Cumberland	Allegany	623	39	75.6	.....	101	2	50	8	32	2.42	− 0.80	0.59	0	11	13	11	7	s.	Francis E. Harrington.
Darlington	Harford	300	22	73.8	− 0.9	94	2	52	26	30	4.11	− 0.66	1.35	0	12	15	14	2	sw.	Prof. A. F. Galbreath.
Denton	Caroline	42	18	77.2	+ 0.6	100	29	50	26	38	0.78	− 3.30	0.25	0	4	25	6	0	sw.	H. B. Mason.
Easton	Talbott	35	22	76.9	+ 0.5	94	29	55	26	32	2.74	− 1.52	1.71	0	7	25	6	0	w.	Henry Shreve.
Emmitsburg	Frederick	720	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	James J. White.
Fallston	Harford	450	43	74.0	− 0.3	93	2†	55	8	27	4.73	+ 0.34	0.86	0	11	1	28	2	s.	J. H. Curtiss.
Frederick	Frederick	275	38	77.4	+ 1.2	102	30	52	8	36	4.00	+ 0.16	0.82	0	11	18	2	11	sw.	Chas. S. Birely.
Frostburg	Allegany	1,929	6	71.9	.....	96	1	49	8	36	5.47	.....	1.34	0	14	11	20	0	.....	R. A. Walter.
Great Falls	Montgomery	200	23	76.4	+ 0.5	98	30	50	8	33	3.01	− 1.17	0.99	0	6	20	7	4	ne.	Chas. E. Sullivan.
Green Spring Furnace	Washington	450	21	75.4	0.0	102	1	51	8	35	3.66	− 0.24	1.14	0	11	22	7	2	nw.	E. G. Kinsell.
Keedysville	....do	400	9	75.8	.....	101	1	49	8	35	2.94	.....	1.60	0	7	18	12	1	s.	J. A. Miller.
Lake Montebello	Baltimore	200	4	76.8	.....	98	2	56	8†	29	3.40	.....	0.85	0	9	26	3	2	s.	Martin L. Dobler.
Laurel	Prince George	150	19	74.6	− 1.3	97	2	50	8	33	2.85	− 1.99	1.18	0	9	14	17	0	.....	Dr. T. M. Baldwin.
Leonardtown	St. Marys	100	3	79.0	.....	100	29	57	22	32	0.72	.....	0.23	0	8	18	11	2	s.	Brother Fidelis.
Monrovia	Frederick	630	28	76.0	− 0.2	98	28†	51	8	32	2.05	− 2.40	0.44	0	7	17	11	3	s.	J. H. Lawson.

TABLE 1.—*Climatological data for July, 1913. District No. 1*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Maryland—Continued.																				
Pocomoke City	Worcester	37	20	78.8	+ 0.9	96	29	59	8	23	1.91	− 1.88	0.65	0	6	25	5	1	sw.	Hon. R. M. Stevenson.
Princess Anne	Somerset	17	20	75.9	+ 0.1	95	29	53	8	29	1.83	− 3.20	0.75	0	9	3	21	7	sw.	J. R. Stewart.
Rockville	Montgomery	421	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. G. E. Lewis.
Salisbury	Wicomico	23	8	78.4	.....	100	29	54	26	32	1.49	.....	0.73	0	8	12	19	0	sw.	W. E. Downing.
Solomons	Calvert	20	22	80.0	+ 1.7	98	5†	62	7	25	0.62	− 3.86	0.39	0	5	3	15	13	sw.	Dr. W. H. Marsh.
State Sanatorium	Frederick	1,450	6	73.2	.....	94	29	50	7†	28	3.22	.....	0.95	0	11	18	3	10	w.	Superintendent.
Sudlersville	Queen Anne	65	15	76.6	0.0	101	29	53	26	34	1.50	− 3.65	0.56	0	6	21	7	3	w.	Henry L. Higman.
Takoma Park	Montgomery	320	15	76.0	+ 0.7	95	29†	57	8	24	2.90	− 2.23	1.85	0	6	2	24	5	.....	L. M. Mooers.
Towson	Baltimore	465	5	76.2[a]	.....	98[a]	2	53[a]	26	32[a]	3.18	.....	0.98	0	9	26	3	2	se.	C. W. E. Treadwell.
Van Bibber	Harford	100	16	75.0	− 0.9	98	2	52	26	35	3.24	− 1.77	1.35	0	9	21	3	7	.....	W. Benj. Ford.
Westernport	Allegany	1,000	19	73.8	+ 0.5	98	1	48	8	36	3.84	− 0.19	1.03	0	10	.....	.....	.....	.....	Prof. O. H. Bruce.
Westminster	Carroll	860	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. G. F. Morelock.
Woodstock	Baltimore	392	43	77.8	+ 2.7	97	2	56	8	27	3.19	− 0.43	0.82	0	13	13	15	3	nw.	Rev. J. F. Dawson, S. J.
Delaware.																				
Delaware City	New Castle	10	6	77.3	.....	96	30	58	8	30	0.53	− 3.40	0.19	0	4	29	1	1	sw.	H. Morton Price.
Dover	Kent	40	25	77.0	+ 0.2	98	30	50	8	33	1.70	− 3.16	0.63	0	5	14	14	3	w.	W. C. Josting.
Millford	....do	20	29	76.4	− 0.4	96	2	54	26	28	1.67	− 2.07	0.80	0	8	23	7	1	sw.	C. J. Holzmueller.
Millsboro	Sussex	20	21	77.1[a]	+ 0.8	96[a]	2	56[a]	8	31[a]	1.68	− 3.38	0.60	0	7	21	10	0	w.	Rev. L. W. Wells.
Seaford	....do	40	22	76.8	+ 0.6	96	2†	54	26	30	3.20	− 1.94	1.21	0	9	22	9	0	s.	E. B. Brown.
Wilmington	New Castle	86	2	78.6[b]	.....	98	2	63[b]	11†	24[b]	4.55	+ 0.11	1.85	0	8	23	6	2	nw.	Alex. J. Taylor.
District of Columbia.																				
Washington	Dist. of Columbia.	112	43	77.6	+ 0.8	97	29	58	26	31	3.24	− 1.41	2.02	0	11	13	13	5	s.	U. S. Weather Bureau.
Virginia.																				
Culpeper	Culpeper	450	5	75.3	.....	92	31	51	8	31	2.17	.....	0.95	0	10	12	17	2	s.	Col. H. C. Burrows.
Dale Enterprise	Rockingham	1,350	34	73.2	− 0.7	95	1	45	8†	40	4.76	+ 0.34	1.53	0	17	6	23	2	s.	Rev. L. J. Heatwole.
Eastville	Northampton	15	3	77.0	− 1.5	98	2	56	25	30	5.18	+ 0.68	1.87	0	9	11	20	0	sw.	T. B. Robertson.
Fredericksburg	Spottsylvania	100	24	76.8	− 0.3	96	29	54	8†	28	2.03	− 2.55	1.06	0	7	20	8	3	se.	S. G. Howison.
Lincoln	Loudoun	500	12	75.6	− 0.5	97	27	51	25	36	2.60	− 1.18	0.65	0	9	14	17	0	nw.	Dr. Geo. Roberts.
Mount Weather	....do	1,726	9	71.6	+ 0.2	90	29	51	7	22	2.24	− 2.42	0.81	0	11	8	18	5	nw.	U. S. Weather Bureau.
Quantico	Prince William	16	16	76.0	− 0.7	95	2†	52	26	33	1.10	.....	0.52	0	4	25	6	0	ne.	R. F. & P. R. R.
Staunton	Augusta	1,380	21	75.0	+ 0.9	95	1	50	8	32	7.04	+ 3.28	2.84	0	16	6	21	4	sw.	Earnest Northnagel.
Swetnam	Fairfax	300	1	.....	.....	.....	.....	.....	.....	.....	2.15	.....	0.48	0	9	20	4	7	s.	Potomac Elec. Pow. Co.
Warsaw	Richmond	160	21	77.8	+ 0.4	97	2	55	8	30	4.30	− 0.41	1.32	0	8	10	18	3	s.	C. H. Constable.
Winchester	Frederick	717	2	76.8	.....	97	1	58	26	29	4.41	.....	1.05	0	8	19	9	3	w.	Bentley Kern.
Woodstock	Shenandoah	927	17	75.2	− 0.7	96	1	52	8†	31	3.46	+ 0.01	1.09	0	10	15	15	1	w.	Mrs. A. G. Artz.

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record.
** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
† Also on other dates.
T. Presipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for July, 1913. District No. 1, North Atlantic States.*

Stations.	Watershed.	Day of month.																															Total.
		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	
Maine.																																	
Ashland	St. John																																
Bar Harbor	Coast	.05					T.				1.23			.20		T.	T.		1.00	.05	T.	.85											3.38
Cambridge	Kennebec																																
Cornish	Saco		T.			.67	.11		T.		.51			.14		.04	.20		T.		.04	.23			.07				.07	.04	T.		2.12
Danforth	Penobscot	.27					.20				.45			.94					.80		.16	.64											3.80
Eastport	Coast	.16					.40	.04			.37	.02		.14	T.	T.	T.	.05	.55	.05	.03	T.			.02	.84			.01				2.68
Eustis	Kennebec	.42				T.	.08		.02		.97	T.		.31	T.	.01	T.	.21	.18	T.	.15	.01			.47	.03			.24	T.			3.10
Fairfield	do									.15	.78					.58																	1.51
Farmington	do	.05					.30				1.20	.05		.20		.22	.17	T.	.22		.04	.05			.04	.26			.10				2.90
Gardiner	do								.03		.73			.13		.19	.24		.94		.11	.08			.06				.01				1.62
Greenville	do	1.27					.03				1.51			.22	.06			.30	.34	.10	.14	.18		.04	.64	.10			.08	T.			5.01
Houlton	St. John										.03		T.			.01						1.30				.10	.20						1.64
Howe Brook	Penobscot	.08									.82			.20	.60	.25		.28	.60	.45	.50				.20				.30	.20			4.48
Lewiston	Androsc'g'n.						.07				.62			.02		.03	.11		.01		.21	.36			.05				.05				1.53
Madison	Kennebec						.18				1.15		.10			.15			.50		.03	.07			.89								3.09
Millinocket	Penobscot					.05				.19	1.18		.14	.24		T.	T.	.06	.02	.83	.01				.71	.02			.04	T.			3.49
North Bridgton	Saco					.12					1.14			.06			.09		.05		.31	.05			.10			.11					2.03
Orono	Penobscot	1.52					.24			.28	1.27	.27		.18	.23	.20				.11	.14	.41			.30	.15	.26			.30			5.86
Patten	do	1.00			T.						1.00				T.				T.						1.00	1.00							4.00
Portland	Coast		T.			1.10	.01		T.		.43			.01		T.	.28		.16	T.	T.	.23			.02				.02	T.	.01		2.27
Presque Isle	St. John	.28			.10	.05	.06				.62	1.02		.45	.15	.05		.55	.92	.25	.03				T.	.26			.36	.03			5.18
Rumford Falls	Androsc'g'n.						.42				1.21		.10	.03		T.	.17		.20		.05	.32		T.	T.				.15		T.		2.65
The Forks	Kennebec																																
Van Buren	St. John	.63			.40						.48	.29	.09	.31	.25	.04	T.	.14	.26	.28	.09				.24		T.		.05				3.53
Winslow	Kennebec								.27	.85				.10		.30			.05			.05		.01	.01				.01				1.65
New Hampshire.																																	
Alstead Center	Connecticut		T.			.30	.65	.01	.09		.58			.70	.07				.04	.54		T.			.17	.01			.55				3.71
Benton	do																																
Bethlehem	do				T.	.51	.01	.03			1.41			.21	T.				.49	.24	.01	.02			T.	.32			.79	.02	.02		4.08
Brookline	Merrimack								T.				.15	T.					.10						T.				1.10	T.			1.35
Concord	do		T.			.56	.02	T.	T.		.17		.06	.01					T.	.06		.06			.11				.18	.02			1.25
Durham	do										.12		.01						.15			.56			.08				.06				0.98
Franklin	do						2.75				.29			.29						.04					.10				.30	T.	.05		3.82
Grafton	do																																
Hanover	Connecticut		T.	.01		T.	.10	T.	.10		.51	.02		.03	T.				.11	.02	T.	.01		.30	.03				1.15	.77			3.16
Keene	do		T.			T.	.06	T.	.08		.17			.33	.15				.09	.13	.20	T.			.15	.03			.62				2.01
Nashua	Merrimack																																
Newton	do					.06					.72			.05			T.		.20		T.	.03			.03				.20				1.29
Plymouth	do						.75		T.		.48			.05						.33	.10			T.	.09				1.05				2.85
Vermont.																																	
Bloomfield	Connecticut					.01	.99	.03	.01		.68	.28		.29	.07	.04	.02		.52	.06	.04	.05			.05	.20			1.00	.35	.05		4.74
Cavendish	do		.03			.30			.11		.35				.28				.03	.23	.03	.03		.20	.55	.03			.60	.01	.05		2.83
Chelsea	do					.01	.06	T.	.03		.46		.18						.14		T.			T.	.03	.04			1.98		T.		2.93
Manchester	Hudson																																
Somerset	Connecticut		T.			.02	.06	.13	.18		.36			.93	.46				.24	.17		.04			.29				.78				3.76
St. Johnsbury	do					T.	.06		T.		.47			.44	.04				.14	.45	.05	.01			.70	.11			4.99	T.	.10		7.56
Vernon	do																																
Woodstock	do		.13			.88					.17								.62					.41	T.				.87				3.08
Massachusetts.																																	
Amherst	Connecticut		T.						T.		.03		.30	.14					.14		.06	.01		T.	.03				.86	.02			1.59
Ashland	Merrimack						.09				.97		.05	.03					.27		.04				.14				.59	.02	.03		2.23
Bakers Bridge	do						T.				.38				.12				.39			.07			1.10				.71				2.77
Bedford	do						.02	T.			.34			.10	.04				.24		.04	.01			.28	.09			.70				1.86
Blue Hill	Coast					T.	T.		T.	T.	.89		T.	.01	.11				.27		.03	T.			.07	.06			.42	T.	.14		2.00
Boston	do						T.		.02	.05	.62		T.		.04				.25		T.	T.			.19	.04			.57		.91		2.69
Chestnut Hill	do						T.		T.	.63	.06		T.	.10	T.				.40		T.	T.			.30	T.			.66	T.	.10		2.25
Clinton	Merrimack						.06		.07	*	.15		.13		.12				.25		.09				.12				.87	.07	.03		1.96
Concord	do																																
Fall River	Coast									.07	.79			.01	.09				.50						.06	.04			.18	.14	.99		2.87
Fitchburg	Merrimack						T.	T.	.05		.04			.23	.01				.07	.06	T.	T.			T.				.75		.53		1.74
Framingham	do						.01				.64		.05		.03				.22		.05				1.36				1.34	.10	.22		4.02
Haverhill	do					T.	T.			T.	.27			.08					.21	.03		T.	.03		.01	.04			.20		.08		0.95
Hingham	Coast						T.				1.07				.18		T.		.28		T.	.28			.29				.33	.05	T.		2.48
Hyannis	do										.42								.38							.07					.05		0.92
Jefferson	Merrimack						.29		.08	.19			.15		.40				.15		.07				.23				1.14	.97			3.67
Lake Cochituate	do					T.	.01				.83		.03	.02					.20		.05				.89				.96	.02	.02		3.03
Lawrence	do					T.	T.			T.	.31		*	.11	T.		T.		.21	T.	T.				.07				.39		T.		1.09
Leominster	do		T.				T.	T.	.04		.06			.13	.03				.13		T.				.01				.72	T.	.57		1.69
Lowell	do						.03		.02		.26			.10					.11		.04				.07				.58				1.21
Middleboro	Coast									.01	1.07				.06				.41			T.			.10				.15				1.80
Nantucket	do						T.				.10								.37							.03					.08		0.58
New Bedford	do										.59								.42	.03											.83		1.87
Norfolk	do									T.	1.28								.38			.18			T.				.46	.89	1.32		4.51
Plymouth	do										.70		T.		.12			.08	.55			.02			*	.06			.07		.04		1.64
Princeton	Merrimack						.05		.04	.06				T.	.05				.07		.38				.28				.76	.18			1.87
Provincetown	Coast										.76		.20						.64														1.60
Rockport	do						.30				.75								.24			.22			.22	.18			.08				1.99
Rutland	Connecticut																																
Somerset	Coast										1.32			.29					.31			T.			.15				.21	.51	.06		2.85
Spot Pond	do						.31		.01	.64	.14		.02	.03					.34		.02				1.71				.49		.17		3.88
Springfield	Connecticut								T.		.03		.21	T.					.09		.08				.24				.72	.02			1.39
Sterling	Merrimack						.21		.03		.09			.11					.18		.23				.07				68	.06	.08		1.74
Taunton	Coast																																
Turners Falls	Connecticut										.05		.12						.04	.08		.15			.12				.41		.05		1.02
Westboro	Merrimack						T.				.45		*	.10					.20		.05				.85				1.12	T.	.50		3.27
Williamstown	Hudson		.01			T.	.10				.74		T.	.94	.14				.27		T.				.22	.03			1.08		.35		3.88
Winchendon	Connecticut					T.	T.	T.	.06		.03			.16					.06	.10					.07				.50				0.98
Worcester	Coast						.01	T.	T.		.68			.01					.25		.04				.69				.58	.30	T.		2.56
Rhode Island.																																	
Block Island	Coast		T.								.14			.07					.46	.01		.02			.30	.05			.09		.09		1.23
Bristol	do									*	.86				T.				.51						*	.25			.14	.87	.06		2.69
Greene	do									T.	.71			.02	.25				.31					.10	.12				.49	.03	.26		2.29
Hope Valley	do									T.	.79				T.	.10			.69						.31	.20		.73			.53		3.35

TABLE 2.—*Daily precipitation for July, 1913. District No. 1*—Continued.

Stations.	Watershed.	Day of month.																															Total.
		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	
Rhode Island—Con.																																	
Kingston	Coast									*	.61							T.	.86					T.	.24			T.	.48	T.	.75		2.94
Narragansett Pier	do										.44			T.	T.				.43			.02			.12	.30			.27		.71		2.29
Pawtucket	do									*	.75			T.	.23				.50		T.				2.10			T.	.31	*	.16		4.05
Providence	do									.14	.50		T.	.05	.02				.50			T.			.41				.25	.17	.25		2.29
Wallum Lake	do																																
Connecticut.																																	
Bridgeport	Coast		T.			.07			.07	T.	.46		.05	.17				T.	.29		T.				.83	.05			.06				2.05
Canton	Connecticut								.29		.17		T.	.37					.11						T.				.42				1.36
Colchester	Coast								T.	T.	.50			.30	.15				.18						.28	.12			.17				1.70
Cream Hill	Housatonic	.09					T.	T.	.32		.02		.15	.26					.11		.05				.21				.16				1.37
Danielson	Coast										.87			.10					.22		T.				1.11	.08			.55		.25		3.18
Falls Village	Housatonic	.41							.19	.03			.06	.16					.05	.10				.09	.06				.30				1.45
Hartford	Connecticut		T.				T.		.02	T.	.17		.31	.10					.11		.12			T.	.39				.61	T.			1.83
Hawleyville	Housatonic								.20	.02			1.05						.13	.23					.14				.48				2.25
Lake Konomoc	Coast										.70								.39							.80				.20			2.09
New Haven	do					.01	T.		.12	.01	.47		.15	.03	T.				.34		T.	T.			.41			T.	.15	T.	T.		1.69
New London	do									.51			T.	.09					.30						.26	.29			.11			.15	1.71
N. Grosvenor Dale	do										.73			.11	.12				.18		.06				.09	.04			.43				1.76
Norwalk	do										.35		.13						.21						.30				.05				1.04
Southington	do		T.								.10			.45	.10				.10		T.				T.	.20			.25	T.			1.20
South Manchester	Connecticut								.02				.38						.14		.08				.20	.20			.55			.01	1.58
Storrs	Coast								T.		.63		.50	.17					.16		.15				.10				.96		1.58		4.25
Torrington	Housatonic																																
Voluntown	Coast										.70				.04				.15							.26			.46				1.61
Wallingford	do								.05	.43			.53	.02				.04	.13						.75				.18				2.13
Waterbury	Housatonic		.03						.18		.21		*	.38	.09				.11		T.				T.	.09			.27				1.36
West Simsbury	Connecticut																																
New York.																																	
Addison	Susq'hanna		.12			.28	T.		T.	.14	.02	.17		.10	.02			.28	.02		.13			.17	.46	.03		T.	.08				2.02
Albany	Hudson		.01			.29			T.	.01	.11		.36	.08					T.		.09	T.	T.	.01	.23	T.			.63	T.			1.82
Alfred	Susq'hanna						.03			.28			.13	.60				.21			.37			.17	.23			T.	.01				2.03
Amsterdam	Mohawk		T.			.02	.42			T.	.29		.01	.30	.10				.01		T.	.70			.44	.02			.32	.01			2.64
Athens	Hudson		T.			T.		T.	.02	T.	.08		.48	T.				T.	T.		T.			.04	.12				1.12				1.86
Bainbridge	Susq'hanna																																
Ballston Lake	Hudson	T.	T.			.52	.05		T.	T.	.60			.31	.08							.21	T.	.08	.35				1.32	.01			3.53
Bedford	Coast		T.			.06			T.	.03	.36		.65	.54					.20	.03		T.			.23				.06	.01			2.17
Beerston	Delaware		.02			.25	T.		.24	.02	.16		.64	.02					T.	.04	.01			T.	.38				.27				2.05
Binghamton	Susq'hanna		.03			.25	T.	T.	.03	.13			.26	.02				.01	.02		T.			T.	.73				.07				1.55
Bouckville	do							.04		.06	.57		.26		.33				.02			.05			.15	.02			.32				1.82
Carmel	Hudson					.15			.02	.13			.58	.07					.10						.11				.49				1.65
Chatham	do		.01			T.			.10		.22			.72	.13						.10			T.	.32	.25			1.06				2.91
Cooperstown	Susq'hanna					.15	.64	.07	.05	.31			.14	.20				.06			.15				.50				.04				2.31
Corinth‖	Hudson										.27			.30						.35						.13				.18			1.23
Cortland	Susq'hanna		.04			.19			.08	.02	.25				.68				.01						.35	.02			.08				1.72
Cutchogue	Coast		T.								.28			.02					.12			.05			.10	.05			.10				0.72
De Ruyter	Susq'hanna		T.			.11				.08	.82		.39	T.	.30				T.						.40								2.10
Elmira	do		.01		.19	.02	T.			.34			.02	.01				.22						.02	1.03								1.86
Glens Falls	Hudson		T.								.01			.03					.92		T.	.15			.06				.33				1.50
Gloversville	Mohawk									T.	.54		T.	.38	.06				T.	T.	T.	.26			.30	.02			.47				2.03
Greene‖	Susq'hanna					.25									.18				.38	.10				.14		.43							1.48
Greenfield Center	Hudson						.25			.60				.21					.10			.07		.06	.20				1.20				2.69
Griffin Corners	Delaware																																
Hancock	do						.09			.31	.35			.75	.08				.09			.12				.43				1.20			3.42
Haskinville	Susq'hanna		.15			.10	T.	T.	T.	.19			.10	.20				T.			.45				.38	.09							1.66
Homer	do																																
Hoosick Falls‖	Hudson			T.						.10	.80			.15	.35					.17		T.				.02	.47			1.05			3.11
Indian Lake	do			.10					.05		1.50		.25		.05						.05	.08			.15				.80				3.03
Jeffersonville	Delaware		T.			.52			.10	T.	.60		.32	.42					.22		.42			.12	.99				.77				4.48
Liberty	do																																
Little Falls	Mohawk						T.	T.		T.	.35		.05								T.					.10			.85				1.35
Mechanicsville‖	Hudson					.04				.52			.30								.13				.40				.42				1.81
Mohonk Lake	do												.25	.05	.10			.20				.02		.10	.16			.23					1.11
Morehouseville	Mohawk								.37	.07	1.09		.28												.92								2.73
Morrisville	Susq'hanna						.06				.06		.30																				0.42
Mount Hope	Coast					.47			.18					.33					.32						.27				.73				2.30
Mount McGregor	Hudson								.02	.45				.25								.37		.17	.38				.49				2.13
Newark Valley	Susq'hanna		.02			.30			.03	.20			.17					.01			.23			.04	.58								1.58
New Berlin‖	do						.15				.15	.05		.32	.58				.02							.04							1.31
New Lisbon	do						.58	.04	.06	.02	.18		.08	.08	.35				.03						.89	T.							2.31
New York City	Coast		T.			1.06			T.	T.	.35		.28	.05				T.	.09		T.			T.	.57				.62				3.02
North Creek	Hudson																																
Northville‖	do								.10	.30			.35						.15					.30					1.52				2.72
Norwich	Susq'hanna																																
Oneonta	do					1.72					.09		.07	.69					.04		T.				.47				T.				3.08
Oxford	do		T.			.59	T.		T.	T.			.45	.16	.31				.05	.05				T.	.35	T.			T.				1.96
Oyster Bay	Coast																																
Port Jervis	Delaware	T.				2.89				.27	.15		.42	T.				T.	.22		.05			.21	.32				2.39	T.			6.92
Roslyn	Coast					.01					.26		.12	.09	.02				.36			.01			.35	.04			.30				1.56
Salisbury	Mohawk						.08	.03			.93		.54						.07						.61	.06	.06		.91				3.29
Scarsdale	Coast		T.			.55			T.	T.	.34		.23	.25					.30						.34				.44				2.45
Setauket	do		T.			T.			T.	T.	.27		T.	.20					.21		T.				.18	T.			.05				0.91
Sharon Springs	Mohawk		.05								.90		.20	.50					.05		T.				.70				.42				2.82
Sherburne	Susq'hanna				.02							.30	.03	.37		.30										.13	.28						1.43
Southampton	Coast		T.			T.					.16			.03	T.				.11			T.			.33	.10			.05				0.78
South Edmeston	Susq'hanna		.01			T.			.03	.01	.27		.30	.02	.17			T.	T.		T.				.57								1.38
Spier Falls	Hudson								.09	.13			.35						.14		T.	.06							.28				1.05
Trenton Falls‖	Mohawk						.10	T.			.22	T.		.23					T.			T.	.03		T.	.22				.88			1.68
Tribeshill‖	do									.60			.30	.40							.10	.10			.70				.50				2.70
Troy‖	Hudson				*		*	.10		.18	.15			*	.65						*	.01	.09		.06	.50		*	.35	.02			2.11
Utica‖	Mohawk						.17				.43		.05	.13	.10								.45		.13	.51			.69	.85			3.51
Wading River	Coast		.01						T.		.15			.03	.14				.20						.05				.02				0.60
Wappingers Falls	Hudson					.18			.10	T.	T.			.22					.20		.08			.28	.16				.22				1.44
Warwick	do					.43			T.	.03	.20		1.48	T.	.05				.12		.14			.25	.10				.10				2.90
Waverly	Susq'hanna		.02			.17	T.	T.		.14	.07		.02	T.	.17			.14	T.		.04			.01	.37	.08							1.23
West Berne	Mohawk					.47	.09		.05	T.	.03			.65							.35				.39				.42				2.45
West Point	Hudson					.11		.23		T.				.78	.29				T.					.17	.12				.26				1.96
Windham	Mohawk		.08			.16			.15		.57		.55	T.					.08					T.	.54				.15				2.28

TABLE 2.—*Daily precipitation for July, 1913. District No. 1*—Continued.

Stations.	Watershed.	Day of month.																															Total.
		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	
Pennsylvania.																																	
Allentown ‖	Lehigh					.46				2.24			T.		.24			.25						.43	.02								3.64
Altoona	Susqueh'na				.27	1.86	.14			.42	.21		.24					.24	.06		.27			.02	.20			.36			.55		4.84
Ansonia ‖	do			.05		1.58		.04		T.	.49			.35	T.				.08			.34			.25	.30				.20			3.68
Austin	do		.25		1.63	.35	.10			1.62	1.30		.10	.20				.18			.20			.35									6.28
Bethlehem	Lehigh									.04	2.35			.02					.02					.03	.01	.03							2.50
Bloserville	Susqueh'na	.14	.63			.27	.06			.42	.12		.31	.03		T.		.10			.05			.24	.19			T.	T.		.15		2.71
Browers Lock	Schuylkill					.15						.27	.67												.80				.40	.27			2.56
Catawissa	Susqueh'na	.08	T.			.15	T.			.97			.36	.47				.22			.06			1.09	.49				.09				3.98
Coatesville	Coast					.55				.29			.32					.08				.10			.32				.35		.18		2.19
Doylestown	Schuylkill					4.55					.53		.13					.10											.73				6.04
Drifton	Susqueh'na	.03	.02			.15			T.	.15	.75		.40	.25	.47			.25	.05		.05			.62	.88	.08				.35			4.50
Emporium	do		.18		1.75	.61	T.			1.10	.35		.16	1.40				T.			.04			.31	.41			T.					6.31
Ephrata	do		T.			.21				.15			1.06	T.				.02				.01			.17						.44		2.06
Everett	Juniata		.53		T.	.41				.46	.30		.08	T.		.41		.60					.13		.49			.14			.36		3.91
Forks of Neshaminy	Delaware					.98				.13			.35												1.56				1.38				4.40
George School	do					1.25				.01	.13				.40				.04						1.26	.05			.12	.45			3.71
Gettysburg	Potomac		.37			.21	.15			.83	.14			.51		.03		.29	.02		.06	.20		.01	.03						1.02		3.87
Girardville	Susqueh'na					T.	T.			2.31			.84	.81				.15	.07		.12			2.59					.44				7.75
Gordon	do					.33				.13	2.08		.87	.13	.26			.06	.04		.04			.74	1.71	.06			.31	.11			6.87
Hamburg	Schuylkill									.24	1.00	.69												.64									2.57
Hanover	Susqueh'na		.37			.08	.11			.61	.11		.15					.05	.12			.53				.06				.11	1.00		3.30
Harrisburg	do	T.	.02			1.02				.32			.16		T.	T.		.08			.11			1.08	.10				.03	T.			2.92
Huntingdon	Huntingdon	T.			T.	.21	.03	.08		.26	.70		.10		.34			.37			.06			.15	.35						1.16		3.81
Hyndman	Potomac					.11	.04	.04		.22	.26		.08			.45		.17			T.			.28	.28	.20		T.	.37	T.	.19		2.69
Kennett Square	Coast		.09			.10				.98			.37					.10							.06					.48			2.18
Lancaster	Susqueh'na		.25			.72	.03			.31	.07		.25						.02			.04			.17	.02							1.88
Lansdale	Schuylkill					2.09					.14		.31					.06						.31					.23				3.14
Lawrenceville	Susqueh'na					.30	.10			.60			.15	T.				.70			.20				.60				T.				2.65
Lebanon	do						.15			.08	.20		.08		.06									.21	.04								0.82
Le Roy	do	T.	.08			.10				1.65	1.01		.50	.08				.22				.24			.25	.46	.18		.02	.05			3.84
Lewisburg	do	.10	.04			.05		.12		.34	1.70		.25		1.00						.10			2.20									5.90
Lloyd	do					.42	.61		.56	.52			.30	.22	.15			.30			.45	.14		.30	.33				.12				4.42
Lock Haven	do		.05			1.50	.05			1.20			.57	.91				.03			T.			1.10	2.00			T.	T.				7.41
Marion	Potomac					.52	.24			.95	.32		.40			.06		.18	T.		.25	.07		.37	.22					T.	.09		3.67
Mauch Chunk	Lehigh					.14				.12	.66		1.20	.64				.10	.25					.37	.86				.03				4.19
Mifflintown	Juniata		.04			.02				.29	.66		.22					.02	.05		.14			.06	.74						.61	.07	2.92
Milford	Delaware					1.36			.06	.05	.74		.35	.05	.16				.04		.10	.13		.23	.24				1.32				4.83
Montrose	Susqueh'na					.16			.27	.40	.22		.32	.10	.47			.35		.10				.16	.45	.35			T.				3.35
Mountain House	Juniata					.66	.88			.55	.47			.25		.18		.38			.07			.15	.37	.04					.25		4.23
Mount Gretna	Susqueh'na	T.	.07	T.		.38	.04			.14	.13	.12	.86	T.		T.		.02	.15		.02	T.		T.	.16	T.	T.						2.09
New Germantown	do		.40			.20				.20		.35													.17								1.32
Ottsville	Delaware					1.48				.04	1.40		.29	.21					.11						.45				.21				4.19
Philadelphia	do		.40			.17				.15			.58					.10	.01						1.40				.01	.47			4.29
Point Pleasant	do					1.07					1.07		.37	.12															.15				2.78
Pottsville	Schuylkill					.88				2.77	.04		.52	.11				.09	.03					.49	.36				.05				5.34
Reading	do		.01			.08				1.19	.02		.90	.03				T.	T.		.02			.07	.03				T.				2.35
Renovo ‖	Susqueh'na					.03	.89			.15	1.44			.40	.90				.13			T.			1.20	.41			.82	.22			6.59
Scranton	do	.04	T.			.27			T.	.72			.53	.21				T.	.02		.76			1.09	.55				.78				4.97
Selsholtsville	Schuylkill					1.50				.11	1.02		.17		.04			.16			.08			.34									3.42
Selinsgrove	Susqueh'na		T.			.22		.18		.33	2.99		.54	.04	.46			.02			.07			.92	1.23					T.			7.00
Shawmont	Schuylkill					1.35					.10		.40						.10						.30				.05	.30			2.60
Shippensburg ‖	Susqueh'na						.36				.92		.43			.01		.16					.02		.14	.36							2.40
Smiths Corners	Schuylkill					1.38					1.15		.38	.08															.42				3.41
Spring Mount	do					.19				.03	.81		.57											.02		.21			.26	.04			2.13
State College	Susqueh'na	T.	.10		.04	1.09	T.			.37	.22		.34					.10			.01			1.13	1.44			T.	T.	.02	.05		4.81
Stroudsburg	Delaware					.09			T.	.06	.45		.23	.53	.27			T.	.06					.54	.08				T.				2.31
Sunbury	Susqueh'na	T.	T.			.18		.05		.04	2.14		.22	.41	.14			.05	.04		.06			.70	1.17					T.			5.20
Towanda	do		.03			.09	T.		.02	.51	.16		.40	.18				.05			.05			.07	.55	.03			T.				2.14
Weikert	do	.16				.49				.31			.34	.36				.12			.30			1.76	.10								5.94
West Chester	Coast					.40				.14	.18		.56					.06	.13			.05			.18	.02			.03	.93	.22		2.90
Wilkes-Barre ‖	Susqueh'na		1.03				.02			.09	.75			.35	.24				.04			.37			2.38	.25				.17			5.69
Williamsport ‖	do			.04		.10	.25			.02	.74			.08	.87				.26			.11			1.67	.60							4.74
New Jersey.																																	
Asbury Park	Coast					.25			.03	.10	.14		.31	T.				.02	.19		T.				.41				.51		T.		1.96
Atlantic City	do		.46							.04	.01		.38					.02	.50						.10				.05	T.			1.56
Bayonne	do					.24	T.				.40		.03	.27	.04				.20						.33	T.			.17				1.68
Belvidere	Delaware					.14				.06	.58		.87	.28										.36		.08			.41				2.78
Bergen Point	Coast					.55			T.	T.	.39		.38	.06				T.	.22			.04		T.	1.15				.28				3.07
Boonton ‖	Passaic					.06					.77		.75	.27					.10					T.	.03				.18				2.16
Bridgeton	Cumberland		.40			.08				.13			.18					.83							.47					T.			2.09
Burlington ‖	Delaware						1.00				.08			.29					.15							1.16				1.15			3.83
Cape May City	Coast		1.46				.06			.05			.66		T.			.20	.47						.56								3.46
Charlotteburg	Passaic					.43			.09	.46				.33	.20				.11		T.			.20	.07				T.	T.			1.89
Chatham ‖	do						.15				.35			.40	.15				.35	T.						.05				.25			1.70
Clayton	Coast		1.04			.16				.60			.42		T.										.48					.70	.15		3.55
Culvers Lake	Delaware					1.80			.07	.05	.56		.55	.02	.36				.01		T.			.63	.27	.06			.34				4.72
Dover	Passaic					.05				*	.90		.70	.34					.14					.10	.05				.68				2.96
Elizabeth	Coast					.18			T.	.61			T.	.40					.25		.02			.01	.04				.07				1.58
Flemington	do					.20				T.	1.14		.52	.06	.12				.35					.16	T.				.24				2.79
Haddonfield	Delaware		.06	.01		.31				.01	.11		.65	.03				T.	.19						.13	.01			T.	.30			1.81
Hammonton	Coast		.04			.03		T.		.92				T.				.46							.50				.05	.10			2.10
Highwood	do		T.			.06	.02		T.		.28		.15	.25					.15					T.	.04	.02			2.35	.04			3.36
Imlaystown	Delaware					.58							.20	.08					.10						.45				1.35		.04		2.80
Indian Mills	Coast		.32			T.	.10			T.	.53		.47					.18							.18				T.	.64			2.42
Jersey City	do		T.			.32			T.	*	.34		.22	.04				*	.12		T.			T.	.20				S1	T.			2.05
Lakewood	do		T.			.26				.06	.20		.27	.01					.04						.43				.81		T.		2.08
Layton	Delaware					.97				.07	.89		.35	.04	.15									.57	.31				.45				3.80
Little Falls	Passaic					.62				.08	.32		.55	.30				T.	.22					.15	.05				1.52				3.81
Long Branch	Coast					.13	.01		.11	T.	.09		.28	.18					.16	.45	.11				.43	.01			.95	T.	T.		2.91
Mahwah ‖	Passaic						.30				.50			.43					.18							.10							1.51
Moorestown	Delaware					1.12	.05				.17								.13						.67					.54			2.68
Newark	Passaic					.12					.50		.10	.07					.59					.02	.03	.06			.42		.03		1.94
Northfield	Coast		.44	.30		.03				T.	.06			.23					.71							.30							2.07
Paterson	Passaic		T.			.02	.12		.13		.38		.15	.57	.04				.21					.09	.03	.02			.51	.08			2.35
Phillipsburg	Delaware					.17				.04	2.30			.12	.23				.11		.02			.12	T.	.05			T.				3.16
Plainfield	Coast					.35			T.	.04	.48		.38	.12				T.	.18		T.				.06				.14	T.			1.75
Pleasantville	do		.36	.11						T.	.05								.88						.32					.16			1.88
Pompton Plains ‖	Passaic						.21			T.	.80			1.19	.10				.16						T.	.04				T.			2.50
Somerville	Coast					.13					.68			.39	.11				.27	T.				T.	.12				1.67				3.37

TABLE 2.—*Daily precipitation for July, 1913. District No. 1*—Continued.

Stations.	Watershed.	Day of month.																															Total.
		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	
New Jersey—Con.																																	
South Orange	Coast					.18					.30		.40	.08					.50					T.	.05				T.				1.51
Sussex	Hudson					.58			.19	.39			.79	.16							.08			.32	.42				.34				3.27
Trenton	Delaware		T.			.23				.03			.25	.01				.01	.02			T.		T.	.41				.54				1.50
Tuckerton	Coast		.15	.20		.08					.48			.08				.45							1.07				.62	T.			2.53
Vineland	do		1.33			T.				.02			.22			T.			.19						.33					.15			2.24
Woodbine	do		.17	.34						.01				.38					1.70							.16							2.76
West Virginia.																																	
Bayard	Potomac		T.	.15	.51	.52	T.			.14	1.05	T.	.28	T.	1.32	.40	T.	.56	.09	.18	T.	T.			.87			.66		.31	.17		7.21
Burlington	do					.20					.70		T.		.45	.20		.22		.15			.20	.85			.30			T.			3.27
Franklin	do																																
Harpers Ferry ‖	do			.38			.30	.10			.86			.24	T.	T.			.21			T.				.10							2.19
Lost City	do		.10			1.10				.18	1.38		.17		.30	.03		.32		.04					.16			.06	.15		.05	T.	4.04
Martinsburg	do		.05			.50	T.			.44	1.00		.10		.10	.05		.16						.05	.18				.08	T.	.10		2.81
Moorefield	do																																
Romney ‖	do																																
Upper Tract	do					T.				T.	1.37		T.		.30	T.	T.	.80		T.					.30			.70		.03			3.50
Maryland.																																	
Annapolis	Coast		.46			.14	.03		.15	.01		.14				T.			.56					.60	T.				.03		T.	T.	2.12
Baltimore	do		.11			.54				.37	.06		.30			T.		.18	.11						.15				.76	.05	T.		2.63
Cambridge	do					.08				.09	.12		.10						.22		.46				.20							.30	1.57
Cheltenham	do					.03				.12	.29			.18					.22							.36				.06	.28		1.54
Chestertown	do			.40		T.				.20	.04			.18					.65						T.								1.47
Chewsville	Potomac			.03			.18			.76			.20		.01	.03		.42			.07			.14	.22				T.	.19	.18		2.43
Clear Spring	do			.27			.34				.74			.49		.06	.09		1.11			.06			.08	.36				T.		.23	3.83
Coleman	do		1.00			.13				.29			.25					.29							.20								2.16
College Park	do						.10	T.			.30			.10			T.		.12			.02			.14					T.	.66		1.44
Cumberland	do					T.	.12	T.		.23	.59			T.	.22	.05	.08	T.	.40		T.	T.		T.	.03	.33			T.	.13	.24	T.	2.42
Darlington	Coast		.28	.02		1.35	.11			.38	.20		.26					T.	.55			.06			T.	.10			.63		.17		4.11
Denton	do						.04			.25									.24						T.					.25			0.78
Easton	do		.37			.31				.15			.08						1.71			.07			.05								2.74
Emmitsburg	Potomac																																
Fallston	Coast		.80			.86	.15			.64	.30		.11		T.	T.		.05	.53		T.				T.	.62			.49	.18	T.		4.73
Frederick	Potomac		T.			.74	.03	T.		.37	.82		.21	T.	T.	.01		.14			T.				.02	.01			.01		.82	.82	4.00
Frostburg	do					.36		.14		.34	1.00		.14		.70	.20		.26	.45		.03				.22	.03		.26		1.34			5.47
Great Falls	do						.99				.42			.65					.27							.48						.20	3.01
Green Spring Furnace	do		*			.67				.38	.20		.56		.06	.10		1.14			.18				.23	.04					.10		3.66
Keedysville	do		T.			.28	.13			.37	.38		.12		T.	T.		1.60			T.			T.	.06						T.		2.94
Lake Montebello	Coast		T.			.36				.51			.85					25	.34						.10				.85	.13	.01		3.40
Laurel	do					1.18				.39	.18					.04	.13								.25	.05			.25		.38		2.85
Leonardtown	do			.02		.09	.18			.12	.23		T.		.03	T.			T.	T.	T.	.04				.01						T.	0.72
Monrovia	Potomac		T.			.35	.41			.35	.44		.23			T.		.09			T.				.18				T.		T.		2.05
Pocomoke City	Coast		.12				.13			T.	T.		.26		.10				.65	T.					T.	.65	T.						1.91
Princess Anne	do		T.			.15	.07				.06	.75	.28					.03	.27						.17	.05							1.83
Rockville	Potomac																																
Salisbury	Coast			T.		.09				.01	.04		.27						.73			.08			T.	.12	T.	T.		.15			1.49
Solomons	do		T.							.03	.10		.02		T.	T.		.08			.39				T.					T.	T.		0.62
State Sanatorium	Potomac		.22			.95				.55				T.		.03		.20	.16		.01			.19	.20				.70	.01			3.22
Sudlersville	Coast		.52			.03				.08			.28		T.	T.		T.	.56						.03	T.							1.50
Takoma Park	do						.20				.28			.12					.18							.27				T.		1.85	2.90
Towson	do		.02			.31	.11			.42	.21		.44						.45						.24				.98	T.	T.		3.18
Van Bibber	do		.15			1.35				.37	.19		.38					.03	.28						.10				.39				3.24
Westernport	Potomac					1.03			.20		.84				.82	.12		.40	.04						.22				.05		.12		3.84
Westminster	Coast																																
Woodstock	do			.03		.01	.06			.33	.32			.44				.02	.10						.11	.08			.40	.82	.47		3.19
Delaware.																																	
Delaware City	Coast			.12		.09				.13	.19					T.		T.	T.						T.								0.53
Dover	do		.23			T.				.07			.41						.36						.63								1.70
Milford	do			.36			.33			.08				.60					.07			.02			.22								1.68
Millsboro	do		.80	.10		.14							.29					.05	.10			.05			.14								1.67
Seaford	do			.35		.70				.06				.18		T.		T.	.40			.12			.10	.08				1.21			3.20
Wilmington	do		.10			.37				.18	.45		.95					.10							.55					1.85			4.55
District of Columbia.																																	
Washington	Coast		T.			.19				.18	.06		.23		T.	T.		.20	.04		T.				.12	.01			T.	.01	2.02	.18	3.24
Virginia.																																	
Culpeper	Rappahannock.					.95					.84		*		*	*		*	*	*	.33				.05								2.17
Dale Enterprise	Shenandoah	.25	.25			.18				.03	1.50		.04		.03	.02		.65		.28	.15			T.	.16	.01		.85	.20	.05	.11		4.76
Eastville	Coast						1.02				.20	.30	T.			.50			1.87		.28				T.	.74	.25	.02					5.18
Fredericksburg	Rappahannock.		.33				.43				1.06		T.		.01	.09			.08	T.	T.				T.	.03					T.		2.03
Lincoln	Potomac					.65				.28	.30		.12		.16				.12		.06			.44				.47					2.60
Mount Weather	do		.27			.81	.01			.21	.13		.15		.10	.10		.07			.07				.32				T.		T.		2.24
Quantico	Potomac					.52	.14		.17												T.				.27				T.				1.10
Staunton	Shenandoah		.04	.03		*	.34			*	2.84		.21			.51		.07		1.12				.01	.13			1.19	.03	.02	T.	.50	7.04
Swetnam	Potomac					.27				.30	.30		.33									.27		.48					.12	.03	.05		2.15
Warsaw	Rappahannock.		.45			T.	.75					.23	.10			.03			1.32		.10				*	1.32	T.			T.	T.		4.30
Winchester	Potomac		1.02			.35				.10	.34		.05		T.	.50					1.05									1.00			4.41
Woodstock	Shenandoah		.23			1.09				.07	.96		.20		.09	.12		.09							.03			T.		.58			3.46

* Precipitation included in that of the next measurement.
‡ Separate dates of falls not recorded.
‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—*Maximum and minimum temperatures for July, 1913. District No. 1, North Atlantic States.*

Date.	Maine.												Concord, N. H.		Massachusetts.								Providence, R.I.		Connecticut.			
	Eastport.		Greenville.		Orono.		Portland.		Presque Isle		Rumford Falls.				Amherst.		Boston.		Middleboro.		Nantucket.				Cream Hill.		Hartford.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	51	48	89	58	87	56	101	63	86	79	95	61	99	69	100	64	96	71	89	66	73	64	93	69	93	64	95	66
2....	83	50	82	65	89	65	89	69	79	64	81	64	84	65	84	70	91	72	91	67	87	65	91	73	86	64	89	69
3....	81	56	83	55	83	55	81	63	81	73	84	58	89	59	91	59	79	68	84	60	73	58	86	65	86	62	89	63
4....	87	58	90	56	90	55	88	60	91	74	93	56	96	53	95	62	93	66	85	53	77	59	89	65	90	66	90	64
5....	82	54	86	66	91	62	86	66	85	76	88	66	94	67	95	66	95	73	89	66	77	65	92	71	90	65	92	68
6....	58	52	72	64	81	63	82	64	78	63	85	66	90	65	92	64	92	71	86	69	76	66	93	69	88	66	91	66
7....	72	50	66	51	75	59	69	59	69	61	65	56	66	54	70	54	72	60	84	56	71	61	72	59	72	49	75	58
8....	70	54	69	50	76	53	74	57	76	60	73	54	78	52	82	46	82	61	78	47	75	60	82	57	79	50	82	53
9....	62	51	75	43	77	51	72	52	78	66	78	48	83	49	82	48	84	61	81	47	74	60	82	60	74	55	80	59
10....	58	51	70	57	77	58	72	59	71	63	74	59	78	61	79	63	80	64	80	63	74	63	81	63	72	59	80	64
11....	63	53	59	49	71	52	75	56	63	55	69	56	76	54	81	52	80	60	76	50	74	60	78	58	78	49	79	58
12....	75	53	76	51	78	48	73	55	77	55	78	51	85	45	86	41	84	60	80	46	76	61	80	57	82	60	82	53
13....	81	53	77	56	83	60	87	62	78	60	82	61	87	65	87	62	89	68	85	66	80	66	88	68	84	53	88	67
14....	71	52	64	54	82	56	75	60	69	63	66	62	72	60	76	60	79	66	78	65	76	62	77	63	74	56	78	63
15....	66	55	67	56	77	56	74	57	64	60	70	61	76	55	82	54	80	62	79	52	77	60	80	60	76	54	79	59
16....	70	54	75	51	75	54	72	59	75	60	76	57	79	57	84	52	70	60	75	52	70	58	76	61	78	57	81	57
17....	72	52	76	49	80	48	75	57	79	60	78	50	84	50	86	50	80	60	80	53	74	59	77	60	83	60	83	56
18....	61	52	62	56	80	61	74	57	71	64	79	58	69	62	78	62	70	61	69	63	67	61	69	64	79	56	74	63
19....	58	52	74	57	77	58	77	57	74	64	79	60	84	57	86	56	87	61	85	62	76	62	86	62	84	59	86	61
20....	67	50	74	56	80	55	78	58	75	63	78	56	84	55	87	57	87	66	85	54	84	63	88	63	76	56	86	63
21....	70	53	71	53	78	58	75	59	80	62	76	60	80	56	82	53	77	64	83	61	80	64	83	64	77	54	82	60
22....	77	51	78	44	82	49	80	58	81	45	80	51	86	50	88	52	86	63	81	50	78	64	81	61	84	53	86	58
23....	72	55	81	49	82	52	76	60	84	48	85	51	87	52	88	63	86	66	83	60	80	64	85	64	84	57	86	66
24....	64	53	68	58	80	64	77	63	76	61	75	64	74	65	78	67	83	68	81	66	78	64	81	68	76	56	80	69
25....	71	53	66	54	75	60	75	62	66	55	72	54	75	54	79	54	81	65	79	65	81	64	80	62	78	54	78	62
26....	77	53	76	48	80	48	78	56	78	44	80	47	84	45	85	44	83	60	78	.....	77	61	80	59	81	53	81	55
27....	74	54	82	53	86	53	79	57	84	54	86	52	91	51	90	54	87	63	81	.....	78	63	82	62	82	57	84	61
28....	73	54	70	56	85	57	69	59	80	64	73	60	83	61	80	62	84	64	80	53	81	67	82	63	77	56	82	64
29....	70	57	82	61	80	63	73	61	83	61	85	66	88	65	94	70	78	65	87	63	81	68	87	70	89	58	93	71
30....	83	54	80	57	86	61	86	60	78	56	87	62	88	64	90	68	84	72	88	65	84	68	90	73	91	62	93	68
31....	71	55	75	48	87	49	70	58	76	41	79	51	81	56	88	60	74	63	79	60	76	61	78	64	88	64	85	67
Mns..	71.0	53.0	74.7	54.2	81.0	56.1	77.8	59.5	76.9	60.5	79.0	57.4	82.9	57.2	85.5	57.7	83.0	64.6	76.8	54.4[b]	76.9	62.6	82.9	63.8	81.6	57.5	84.2	62.8

Date.	New Haven, Conn.		New York.												Pennsylvania.												Atlantic City, N.J.	
			Addison.		Albany.		Binghamton.		Indian Lake.		Little Falls.		New York.		Everett.		Harrisburg.		Philadelphia.		Scranton.		State College.		Wellsboro.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	90	68	98	65	99	72	97	66	100	71	93	70	91	68	95	65	98	70	91	69	96	70	93	69	.....	.....	77	70
2....	92	72	87	67	82	71	78	62	85	61	80	57	93	74	85	65	92	72	97	77	85	65	86	68	.....	.....	90	68
3....	86	67	90	59	89	65	90	57	87	46	90	55	86	68	87	57	89	66	88	73	90	60	88	59	.....	.....	76	69
4....	86	65	95	64	94	68	91	60	92	43	95	60	84	68	89	63	90	70	89	67	91	65	88	68	.....	.....	77	67
5....	90	68	92	65	91	74	88	68	89	62	90	69	89	69	85	71	91	72	92	72	89	70	84	66	.....	.....	78	71
6....	92	68	81	65	86	60	79	54	82	64	79	62	88	70	81	53	86	68	89	72	84	60	78	65	.....	.....	90	72
7....	76	59	75	53	74	57	71	52	66	49	70	54	76	57	71	60	76	58	79	61	73	56	72	51	.....	.....	77	62
8....	80	56	80	48	79	53	75	49	71	35	79	51	79	62	80	45	82	61	83	66	78	56	78	55	.....	.....	82	59
9....	78	58	80	51	78	60	75	55	75	36	78	54	77	66	75	53	72	63	78	66	73	56	74	58	.....	.....	74	66
10....	82	64	74	46	75	61	71	56	71	54	71	58	82	66	76	61	79	64	84	69	75	62	74	60	.....	.....	86	67
11....	80	58	81	45	78	56	75	46	72	43	72	48	79	61	78	51	82	60	84	65	76	57	78	50	.....	.....	72	63
12....	78	54	88	55	82	49	79	46	75	33	80	45	78	64	81	57	85	64	87	67	82	52	80	58	.....	.....	75	65
13....	88	67	89	56	90	64	85	62	79	65	85	63	86	67	87	64	89	67	89	69	84	64	85	65	.....	.....	89	70
14....	80	64	90	52	76	60	73	55	73	50	72	60	79	68	82	68	79	70	82	72	76	62	80	62	.....	.....	85	68
15....	80	59	81	47	80	59	74	50	70	46	78	53	80	63	79	59	82	61	84	68	76	53	80	53	.....	.....	74	64
16....	81	60	84	47	82	57	78	50	80	41	82	51	81	63	79	52	82	63	85	64	80	56	79	51	.....	.....	74	62
17....	81	59	78	55	83	58	77	56	80	40	82	56	82	63	78	55	76	64	83	66	82	58	72	59	.....	.....	81	65
18....	79	64	86	62	83	64	84	64	84	47	85	61	82	63	81	66	88	65	89	65	86	64	86	62	.....	.....	86	66
19....	88	64	85	54	86	61	82	62	81	45	83	57	87	71	79	58	85	70	90	74	83	65	80	61	.....	.....	90	69
20....	87	62	77	51	85	59	76	54	75	43	78	58	86	68	81	53	85	64	87	71	79	56	80	58	.....	.....	81	68
21....	83	63	81	51	80	59	77	51	76	45	79	56	82	64	82	52	81	62	84	67	78	56	77	54	.....	.....	84	65
22....	84	62	88	43	85	56	86	46	80	40	85	49	84	67	82	50	85	61	87	69	84	53	82	52	.....	.....	80	63
23....	83	68	88	52	87	65	81	66	82	41	90	60	82	68	82	59	80	64	87	69	82	62	81	63	.....	.....	78	70
24....	81	67	74	62	72	66	71	62	80	57	77	65	82	68	76	62	83	67	90	66	72	64	68	61	.....	.....	78	69
25....	80	62	77	50	77	61	81	55	75	50	75	55	78	65	76	56	78	62	81	68	73	60	75	54	.....	.....	82	68
26....	80	57	85	47	82	54	86	50	80	36	85	49	78	65	81	50	83	57	83	66	80	52	80	53	.....	.....	80	64
27....	80	60	93	53	88	62	88	54	85	41	89	60	81	66	86	55	89	62	88	67	85	56	85	58	.....	.....	79	68
28....	81	64	95	67	81	69	92	71	83	63	87	67	81	68	90	64	95	71	90	71	86	68	89	68	.....	.....	79	72
29....	83	71	96	64	91	71	90	67	86	58	90	64	88	71	90	71	96	74	96	71	93	67	90	69	.....	.....	80	73
30....	95	71	93	61	89	67	87	64	85	50	88	60	95	74	89	65	94	75	95	75	91	68	91	70	.....	.....	87	75
31....	85	69	93	59	88	64	87	62	90	44	91	61	85	70	87	65	91	73	88	72	91	69	88	65	.....	.....	80	75
Mns..	83.5	63.5	85.6	55.4	83.6	62.0	81.4	57.2	80.3	48.4	82.5	57.7	83.3	66.6	82.3	58.9	85.3	65.8	87.1	68.8	82.4	60.7	81.3	60.2	.....	.....	80.7	67.5

TABLE 3.—*Maximum and minimum temperatures for July, 1913. District No. 1, North Atlantic States*—Continued.

Date.	New Jersey.								Martinsburg, W. Va.§§		Maryland.								Millsboro, Del.		Washington, D. C.		Virginia.					
	Bridgeton.		Phillipsburg.		Sussex.		Trenton.				Baltimore.		Darlington.		Frederick.		Westernport.						Fredericksburg.		Staunton.§§		Woodstock.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	93	68	98	64	97	.....	91	67	100	69	94	70	88	66	100	67	98	68	92	67	94	72	93	68	95	72	96	69
2....	98	75	94	74	90	73	96	74	96	72	98	78	94	66	99	73	93	67	96	73	96	77	94	72	94	71	93	71
3....	90	66	95	62	91	57	91	69	98	65	88	73	87	66	94	66	89	62	82	70	90	72	87	71	85	69	88	69
4....	89	63	95	64	92	64	89	64	95	68	88	70	86	61	96	68	93	66	85	65	91	67	93	68	86	69	90	70
5....	95	70	94	66	89	66	90	69	102	70	93	72	91	67	100	72	90	64	92	69	92	71	93	70	91	68	92	69
6....	92	70	90	69	88	72	87	71	81	69	90	71	87	67	90	70	86	56	89	73	88	71	90	69	88	68	86	69
7....	83	59	79	55	79	53	77	58	78	57	79	61	82	60	81	56	81	56	79	63	77	59	82	61	79	58	78	58
8....	87	55	85	53	81	50	82	60	84	53	84	64	82	53	85	52	84	48	81	57	83	59	81	54	82	53	82	52
9....	84	62	74	55	75	55	77	62	77	55	76	66	72	61	77	59	82	54	82	62	80	64	81	59	84	59	80	58
10....	90	68	82	64	78	64	82	66	83	54	85	70	80	65	85	66	83	65	86	71	82	66	83	67	86	63	84	66
11....	87	60	83	55	80	52	82	62	85	60	84	67	83	57	86	60	85	55	81	64	86	64	82	64	83	62	85	58
12....	93	62	89	53	82	48	87	61	88	62	89	70	86	63	91	65	85	61	90	64	90	69	87	69	82	69	86	69
13....	93	68	90	63	86	64	88	66	90	65	91	69	87	63	92	64	90	60	89	70	92	69	88	68	86	65	89	61
14....	90	73	81	64	78	64	79	66	88	67	87	77	83	77	88	71	88	64	92	76	91	73	89	74	86	68	85	61
15....	85	62	83	54	79	.....	83	62	82	69	83	71	82	61	83	67	89	65	77	67	79	66	80	67	82	67	80	64
16....	84	57	86	58	83	50	84	61	85	59	83	67	84	59	85	58	87	55	81	61	83	64	82	64	83	60	83	57
17....	87	62	84	58	83	55	82	63	75	60	77	69	79	60	80	59	78	60	83	62	79	61	79	59	83	64	80	61
18....	89	64	88	62	85	61	87	63	88	63	89	70	88	59	89	68	88	68	85	67	88	70	89	69	91	70	88	67
19....	92	65	88	65	85	65	87	68	89	66	89	72	87	60	91	65	87	62	88	68	89	71	83	77	85	68	87	68
20....	89	65	88	58	85	55	87	63	87	65	88	70	87	62	91	63	88	55	84	68	90	66	89	67	84	61	87	65
21....	88	64	83	58	80	55	82	64	83	64	85	67	83	59	86	59	81	55	83	66	84	65	84	61	83	57	82	58
22....	91	59	88	56	86	51	88	64	88	56	86	66	85	57	91	55	87	57	85	58	89	60	86	59	85	57	85	56
23....	92	64	89	63	85	58	86	65	89	59	89	71	85	64	92	67	87	61	85	60	89	72	87	68	85	62	86	64
24....	96	68	84	64	79	65	87	65	89	64	94	71	90	67	94	66	81	59	93	67	94	68	92	66	85	65	89	65
25....	84	65	81	61	77	58	79	65	81	61	82	68	80	62	84	64	80	55	81	64	81	61	82	67	80	64	80	61
26....	87	56	85	53	80	48	85	61	86	54	83	62	81	52	88	53	82	50	82	54	84	58	82	54	80	54	83	52
27....	92	65	89	57	85	55	88	62	92	59	86	66	87	57	94	58	85	58	84	68	90	65	88	62	89	62	91	61
28....	95	67	94	67	83	63	89	68	97	67	94	71	88	60	100	51	96	67	92	68	92	73	92	70	89	66	95	68
29....	97	69	97	67	94	64	96	69	96	69	94	74	93	67	100	70	94	66	95	73	97	73	96	71	92	67	94	68
30....	98	72	97	70	93	67	97	73	95	69	95	76	91	67	102	74	94	65	93	74	97	66	94	77	90	77	95	69
31....	95	70	93	68	94	65	85	71	93	68	90	75	91	68	93	68	89	67	90	71	93	71	94	68	91	66	91	72
Mns..	90.5	64.9	87.9	61.3	84.6	59.2[b]	86.1	65.2	88.4	63.2	87.5	69.8	85.5	62.1	90.5	64.3	87.1	60.4	86.4	66.5	88.1	67.2	87.2	66.5	85.9	64.1	86.8	63.7

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.