CLIMATOLOGICAL DATA FOR MARCH, 1913.

DISTRICT NO. 3, OHIO VALLEY.

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GENERAL SUMMARY.

The month of March, 1913, was not marked in the Ohio Valley with any unusual features of temperature conditions, although there were strong contrasts of cold and warm and frequent and often rapid changes from unseasonable conditions of one to unseasonable conditions of the other. But in the matter of storms, winds, and excessive rains it takes its place in the climatic history of the Ohio Valley as generally being the wettest and stormiest and easily the most destructive from high winds and floods of any month for which there are authentic records.

The first 13 days of the month were uneventful for March, and it was not until the 14th that the remarkable sequence of meteorological developments and occurrences referred to above set in over this district.

On the morning of the 13th a storm of great strength appeared over the middle Rocky Mountain and Southern Plateau regions. By the morning of the 14th it had extended over the entire great central valleys from the Rockies to the Alleghenies, the center of the disturbance being about Charles City, Iowa, where the barometer at 8 a. m., seventy-fifth meridian time, was 28.86 inches. The rain area attending the storm extended from the Rockies to the Atlantic Ocean and from Canada to the Gulf. High winds and local storms were general. The rains, however, were heaviest over the southern portion of the district. The storm passed rapidly eastward over the Appalachian Mountains and Atlantic States during the 15th, the center of the disturbance passing across the Lake region.

From the 16th to 18th high pressure areas largely dominated conditions, and the weather was mostly fair.

During the 19th–20th a storm from the middle Rocky Mountain States swept across the northern portion of the Central States. The disturbance passed over the Lake region, but was not severely felt in the Ohio Valley. About the same time, however, a second disturbance, which finally connected with this one, developed over the Southern Rocky Mountain slope and Texas and by the night of the 20th was centered over Louisiana and Arkansas. During the night of the 20th–21st the disturbance moved rapidly northward to the Lake region, increasing in strength and becoming a storm of great violence, and was accompanied by wind squalls, thunderstorms, and tornadoes in parts of the Ohio Valley. This storm moved rapidly to the Canadian Maritime Provinces during the 21st, but high winds continued during all that day over the Ohio Valley.

Another disturbance of unusual proportions appeared on the morning of the 23d over the Rocky Mountain and Great Plains States, which moved rapidly eastward during the succeeding 24 hours and by the morning of the 24th its main center was over Lake Michigan. As with the preceding disturbance, a second storm area developed over the Southwestern States which by the afternoon of the 24th formed an elongated area centered over northern Texas, but with a long tongue extending northeastward across the central Mississippi Valley and up the Ohio Valley to Lake Erie where it joined the vanishing storm center then in the lower St. Lawrence Valley. This long trough of low pressure enveloped the Ohio Valley continuously for a period of 60 hours or more, accompanied by excessive rains. These rains began over the northern portions of Illinois, Indiana, and Ohio during Sunday, March 23, and the rain area advancing steadily in a southeastward direction finally overspread the entire Ohio River Basin, but not reaching Tennessee, North Carolina, and southwestern Virginia until the night of the 25th–26th. The rains did not cease entirely until the morning of the 27th. These rains caused the most widespread and devastating floods of modern times in the Ohio Valley.

Any detailed account of the extent of the floods and the great destruction done by them must necessarily be deferred for a later issue of the Review and for a special published report devoted entirely to them. The amount and distribution of the rainfall over the areas affected are given in the text under heading "Precipitation," and in Table 2 herein.

The following table summarizes the chief features of meteorological interest for the several sections of the district:

Portions of States included in the Ohio River Basin.	Temperature.				Precipitation.						
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest monthly.	Least monthly.	Greatest in 24 hours.	Average number of days.	Average snowfall.
New York	37.6	+3.9	69	−3	5.82	+2.43	6.87	4.95	2.70	13	4.1
Pennsylvania	41.3	+2.9	81	−7	5.25	+1.33	9.08	3.09	3.74	15	3.7
Maryland	41.0	+3.9	77	−6	3.05	−1.10	3.28	2.71	0.70	14	7.0
West Virginia	45.8	+1.7	89	−3	4.48	+0.24	7.90	1.77	4.00	12	2.8
Ohio	41.7	+1.2	80	−8	8.00	+4.70	12.68	3.18	5.61	14	3.0
Indiana	41.3	−0.9	78	−3	9.65	+5.71	13.14	6.53	7.00	14	6.0
Illinois	41.2	−1.9	82	−2	8.24	+4.44	12.43	6.09	6.23	12	5.4
Kentucky	46.5	−0.8	85	9	7.22	+2.39	9.70	3.82	6.90	10	0.5
Tennessee	49.8	−0.5	85	7	7.50	+2.01	10.04	4.54	5.95	8	T.
Alabama	50.8	−2.8	81	19	5.58	−0.26	6.99	4.36	2.32	8	T.
Georgia	51.4	+1.4	76	21	13.52	.....	.....	.....	3.90	14	T.
North Carolina	46.6	+0.7	80	8	9.61	+4.61	20.06	5.42	5.38	11	0.2
Virginia	44.0	+0.1	73	6	6.26	+1.59	7.09	5.20	3.10	9	T.

TEMPERATURE.

Temperature averaged above normal over the more northerly and the more southerly sections of the district and near normal or slightly below normal in the central sections. The first week was unseasonably cold throughout the district and was marked with two distinct cold waves, the first occurring in the period 1st–2d and the second in the period 6th–7th. As a rule the lowest temperatures of the month were experienced on or about the 7th, the coldest reported being −8° at Garrettsville, Ohio. In Indiana and Illinois, however, the lowest

temperatures of the month were registered the morning of the 2d, when the minima ranged between −3° and 10°. Temperatures below zero were registered in all the States north of the Ohio River, including western Pennsylvania, and in West Virginia.

The second week was unseasonably warm especially about the 13th and 14th when maximum temperatures registered quite generally in the 70's and at many places in the 80's. During the last half of the month temperature changes were frequent and rapid, that part of the month being divided up into short periods of alternating cold and warm weather for the time of year and temperatures ranging all the way from 18° to 85° were recorded in the district.

PRECIPITATION.

Precipitation was unusually frequent throughout the month in nearly all parts of the district. During the first 12 days, however, the amounts were mostly small except that on the 10th rains were heavy over Tennessee, western North Carolina, northern Alabama, and northern Georgia, and on the 11th when amounts were considerable over the major portion of the district. In the period 13th–15th rains were again heavy over the southern portion of the district, excessive amounts occurring in northern Georgia and western North Carolina; also the amounts were considerable over much of the rest of the district on the 13th and 14th. Moderate to heavy rains again occurred over most of the district in the period 20th–21st. This time the area of large precipitation extended much farther northward than in the previous storms and included most of the States north of the Ohio River.

In the period 23d–27th heavy rains fell over all of the Ohio River Basin, beginning in the northwestern section on the 23d and progressing southeastward until the whole valley was finally covered. The rainfall was extraordinarily heavy over most of the States north of the Ohio River, where the accumulated amounts for the several days ranged from 5 to nearly 12 inches. The greatest falls covered a wide area extending from central and southern Illinois northeastward across Indiana and Ohio to Lake Erie and comprising the Wabash Basin of Illinois and Indiana and the drainage areas of the Miami, Scioto, Muskingum, and Mahoning Rivers in Ohio. Also there were from 4 to 7 inches over the watershed of the Allegheny River in western Pennsylvania and southwestern New York. Over southwestern Ohio, especially the sections near the Ohio River, the amounts were not as great, but ranged from 2 to about 4 inches. Also over the drainage area of the Monongahela in western Pennsylvania and West Virginia and over the other tributaries in those two States flowing into the Ohio from the south, the rainfall was not so great, the amounts ranging from 1.5 to near 4 inches. Over Kentucky and western Tennessee the rainfall amounts for the period ranged from 3.5 to 7 inches; over eastern Tennessee from 1.5 to 3.5 inches; in western North Carolina and southwestern Virginia from 2.5 to 3.5 inches, and in northern Alabama from 0.5 to 2.5 inches.

For the month as a whole precipitation was far above normal in all sections of the district except in western Maryland and northern Alabama, where it was below the average for March for past years. The greatest excess was over Illinois, Indiana, Ohio, and western North Carolina, where it was nearly double the normal amount. The largest total precipitation for the month, 20.06 inches, was at Highlands, N. C., which is three times the normal amount at that station.

The heavy rains over the southern portion of the district in the middle of the month brought the totals for the month in those sections up to amounts fairly commensurate with the great falls over the central and northern sections during the last decade of the month. The total precipitation for March, 1913, therefore, was in excess of 6 inches and ranged from 6 to 20 inches over all the Ohio Basin west and south of West Virginia, except over a relatively small area in southeastern Ohio bordering along the Ohio River and over a narrow neck extending from the southern border of West Virginia over a portion of southwestern Virginia and eastern Tennessee. But even over these sections and over West Virginia and southwestern Pennsylvania the total falls for the month ranged between 3 and 5.5 inches. Also over most of the Allegheny Basin of northwestern Pennsylvania and southwestern New York the month's precipitation at the various stations ranged between 6 and 9 inches.

Snows were frequent and considerable in amount over the northern States of the district and over much of West Virginia, but inconsiderable over Kentucky and other sections to the southward. As a rule, the largest snowfalls were in Illinois, Indiana, and north central Ohio.

MISCELLANEOUS.

In the period 13th–14th violent storms occurred in many localities in the southern portion of the district, being particularly destructive in Tennessee. During the afternoon of the 13th several storms of the tornadic type passed over the western and central portions of that State, resulting in the death of 20 persons and the injury of 100 or more, while the loss of live stock and property amounted to over half a million dollars. These storms blazed their way in three distinct paths. The first came from Mississippi, and entering Tennessee about 2 p. m. at the border line of Hardeman and McNairy Counties, swept a clean path varying in width from one-half to three-fourths of a mile for a distance of about 8 miles. The greatest loss was at Lexington, Henderson County, where 50 homes and a number of public buildings were destroyed. The storm eventually crossed the northern border of the State into Kentucky, near Lamont, Robertson County. The second storm struck Bodenham, Tenn., on the western border of Giles County, about 3 p. m., and near the same time a third storm struck Brick Church in the same county, 10 miles farther east, and swept a path parallel to the other over Marshall and Rutherford Counties.

High winds did considerable damage also in a number of counties and various cities and towns in Kentucky. The damage around Lexington, Ky., was large. At Louisville, Ky., the wind on the 14th attained a velocity of 60 miles per hour and a great deal of damage was done to houses, trees, telephone and telegraph poles. Windows were blown in and several large smokestacks were demolished. Automobiles were blown about and wagons were turned over. Two men were killed when a 40-foot tower, used for the distribution of concrete, was blown over. High winds continued over Kentucky and bordering States throughout the 14th and 15th.

On the 20th and 21st severe wind storms did enormous damage in all parts of the district except the northeast

portion. At Florence, Ala., during the night of the 20th a tornadic storm caused great destruction, demolishing 7 barns and 20 tenement houses. Three negro children were killed and 5 persons injured. Three mules were killed and property suffered damage to the extent of about $25,000. At Decatur, Ala., there were two separate and distinct storms, one occurring at about 5 p. m. of the 20th in which a boy was killed and property damaged, and the other about 2 a. m. of the 21st, in which three persons were killed and property damaged. The path of greatest destruction in both of these storms was from 300 to 500 yards in width and several miles in length.

During the same days destructive storms passed over the western half of Tennessee, being especially severe about Murfreesboro. The damage in Tennessee is estimated at over half a million dollars, but no lives were lost. Another of these disturbances was felt at Lebanon, Va., where it lifted roofs and moved buildings from their foundations.

Winds were also destructive on the 21st in Ohio, one man being killed and several others injured by a falling wall blown over at Columbus. Also a gale struck Indianapolis, the maximum wind velocity reaching 60 miles per hour, and did considerable damage in all parts of the city. Signs were blown down, plate-glass windows broken, and many persons seriously injured. The storm extended to many parts of Indiana, one person being killed at Lafayette and one at Frankfort, while others were injured in various parts of that State. There was also considerable damage done at various places in Illinois.

Enormous damage was done over a large section of Kentucky during the night and early morning of the 21st by gales and wind squalls. At Louisville the wind reached a velocity of 66 miles per hour for a period of five minutes, the greatest ever registered there. The damage amounted to $25,000 to $50,000 in Louisville and Jefferson County alone. Broken trees, poles, and portions of roofs blockaded the streets. There was no loss of life, but several persons were injured. From all over the State came reports of large damage from storms. Telegraph and telephone communication was almost completely cut off at Louisville and over the State generally. At Alpha, Ky., the storm seems to have been tornadic. In a path 300 yards wide and 5 miles long houses and structures of all kinds were blown down, timber destroyed, and many persons injured. At Somerset, Ky., the storm also was especially severe. Electric lights and street railway services were put out of commission and telephone wires, poles, and trees formed a regular meshwork along many of the streets. Many important buildings were damaged or demolished, including a wing of the Cumberland Hotel in which there were many guests, but fortunately no one was seriously injured. At West Point, Ky., the middle span of a new steel bridge under construction over Salt River was blown from its piers, and in falling landed upon barges filled with steel construction material, sinking all to the bottom of the river and causing a loss of about $20,000.

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On the 23d widespread storms did great damage in Indiana, Ohio, and Illinois. Illinois and Indiana suffered most, but especially the city of Terre Haute, Ind. The following report of this storm is furnished by the official in charge of the local office, Weather Bureau at Terre Haute:

On the evening of March 23, 1913, a tornado passed through the south end of Terre Haute, less than 2 miles south of the weather station. The tornado crossed the Wabash River and entered the city at Gardentown, about 2 miles south of the main street of Terre Haute. From this place it swept across the city in a northeastelry direction, Twenty-fifth and Hulman Streets being the eastern limit in this city of the zone of destruction. It traversed the city in less than two and a half minutes, during which time 300 houses were demolished or damaged, 250 persons injured, and 21 lives lost. The width of the area of greatest devastation was about 100 yards, but property was damaged on each side of this track for 500 yards. Evidences of the violent "explosive" force of the tornado were everywhere. On the outer limits of the zone of destruction one would see here and there a window blown out or a part of a wall or roof torn out. On approaching the path over which the center of the disturbance passed it would be seen that entire walls were forced outward or a whole roof lifted off. In the zone of greatest destruction the demolition was complete. Here entire houses were demolished, and it was the exception to see a wall standing.

On the morning of March 23 the temperature ranged from 38° to 55°, and rain was continuous from 4.55 a. m. to 12.40 p. m. With the stopping of the rain the temperature rose rapidly, reaching 72° at 5 p. m., and the weather was exceedingly oppressive. At 8 p. m. rain began again, with a thunderstorm. At 9.20 p. m. the rain became heavy and fell at the rate of 0.10 inch in five minutes. It continued at this rate for 25 minutes. During this heavy fall of rain the lightning was most vivid. At 9.45 p. m., the time the tornado was crossing the city, the pressure went down and up 0.10 inch in a few minutes.

I have talked with several persons who were in the tornado, and saw the funnel-shaped cloud sweeping along near the ground and house after house crumble as it passed over them. The roar which accompanied the passage of the cloud deadened all other sounds. One observer stated he did not hear his house fall while standing on the street within 25 yards of it. Some of the freakish effects of the whirlwind reported were: One woman had chickens defeathered; another living just on the border of the storm had bed clothing drawn off her through the fireplace; in one house the linoleum was raised off the floor; in another, a baby was lifted out of its bed, carried a square and laid down without injury; and toothpicks were found driven into the hardwood of a buffet on which they rested.

On the night of the 24th and morning of the 25th windstorms did large damage in portions of Kentucky and southern Indiana. The greatest destruction seems to have been about Louisville, where winds and downpours of rain did damage estimated to be $100,000 or more. At Harrod's Creek, Ky., a funnel-shaped tornadic cloud was observed about 7 a. m. the 25th, and a church and other structures and trees in its path were demolished.

During the period 26th–27th destructive storms occurred in Alabama and North Carolina. A tornado occurred at Paint Fork, N. C., about 7.30 p. m., the 26th, causing considerable damage to property over a distance of 3 miles, the width of its path being about half a mile. There were no lives lost or stock killed, but several thousand dollars damage was done. Trees, buildings, strawstacks, etc., in its path were destroyed.

TABLE 1.—*Climatological data for March, 1913. District No. 3, Ohio Valley.*

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.																				
Allegany	Cattaraugus	1,441	7	37.7	.....	69	14	0	7	41	6.87	.....	2.70	4.8	14	10	8	13	nw.	Charles E. Whitney.
Bolivar	Allegany	1,800	9	37.5	+ 3.9	68	20	− 3	8	41	5.65	+ 2.43	2.20	4.5	11	8	9	14	w.	Charles F. Hoffman.
Olean	Cattaraugus	1,402	5	.....	.....	.....	.....	.....	.....	.....	4.95	.....	1.40	3.1	13	.....	.....	.....	.....	John W. Alles.
Pennsylvania.																				
Aleppo	Green	1,135	12	44.0	+ 0.5	74	14†	2	7	39	3.88	− 0.36	1.09	3.0	11	10	9	12	sw.	J. S. Hinerman.
Baldwin	Butler	1,404	7	39.8	.....	73	30	0	7†	36	5.74	.....	1.45	7.0	14	7	5	19	sw.	S. H. Templeton.
Beaver Dam	Beaver	674	19	.....	.....	.....	.....	.....	.....	.....	5.78	+ 1.59	2.03	.....	19	8	3	20	sw.	U. S. Engineer.
Brookville	Jefferson	1,173	22	41.4	.....	72	14†	− 3	8	51	5.02	+ 1.70	1.80	0.3	18	.....	.....	.....	w.	H. C. Bartholomew.
California	Washington	770	12	46.8	.....	81	25	8	7	42	3.68	.....	1.04	1.8	14	4	10	17	w.	Prof. B. U. P. Cobaugh.
Clarion	Clarion	1,078	28	.....	.....	.....	.....	.....	.....	.....	6.05	+ 2.04	2.20	6.0	16	13	0	18	w.	J. A. Miller.
Claysville	Washington	1,127	9	44.2	.....	77	14†	2	7	41	3.97	.....	1.51	0.5	12	11	12	8	w.	E. T. Buchanan.
Confluence	Somerset	1,352	29	.....	.....	.....	.....	.....	.....	.....	3.22	− 0.97	1.00	3.0	11	9	4	18	.....	Grant Pyle.
Franklin	Venango	955	39	38.3	+ 0.6	72	14	2	8	44	7.60	+ 4.16	2.22	4.5	19	6	7	18	nw.	F. E. Dixon.
Freeport	Armstrong	772	40	.....	.....	.....	.....	.....	.....	.....	4.36	+ 0.50	1.53	3.5	13	9	2	20	.....	Mrs. Anna R. Burtner.
Greensboro	Green	768	24	.....	.....	.....	.....	.....	.....	.....	3.74	− 0.12	1.40	1.0	13	8	8	15	sw.	James G. Cramer.
Greenville	Mercer	950	17	38.1	+ 1.2	75	14	− 2	8	38	9.08	+ 5.01	3.74	7.1	13	15	7	9	nw.	A. M. Orr.
Indiana	Indiana	1,350	16	43.0	+ 4.0	75	25	3	7	40	4.44	+ 0.43	1.17	2.5	15	13	8	10	sw.	R. W. Wehrle.
Johnstown	Cambria	1,184	25	43.2	+ 3.3	79	25	6	7	40	3.97	− 0.39	0.95	4.0	24	6	12	13	se.	E. C. Lorentz.
Lock No. 4	Washington	718	27	.....	.....	.....	.....	.....	.....	.....	3.22	− 0.53	1.50	1.0	13	9	7	15	s.	R. T. McGowan.
Lycippus	Westmoreland	1,420	21	42.4	+ 2.4	71	14†	4	7	33	4.63	+ 0.62	1.25	2.8	14	.....	.....	.....	.....	Murray Forbes.
Mosgrove	Armstrong	775	2	.....	.....	.....	.....	.....	.....	.....	5.79	.....	1.93	4.6	20	6	0	25	sw.	C. J. Moore.
Pittsburgh	Allegheny	842	43	43.4	+ 3.9	75	25	6	7	38	4.37	+ 1.36	1.84	2.0	17	5	12	14	sw.	U. S. Weather Bureau.
Ridgway	Elk	0	....	40.0	.....	70	14†	− 2	8	42	6.00	.....	1.26	.....	23	.....	.....	.....	.....	F. J. Eagen.
Saegerstown	Crawford	1,116	22	37.5	+ 2.1	72	14	− 7	8	40	9.01	+ 5.78	3.70	11.5	18	4	9	18	sw.	J. G. Apple.
Sharon	Mercer	940	2	39.4	.....	73	14	1	7†	37	7.02	.....	2.92	3.2	14	11	16	4	sw.	Norman S. Powell.
Skidmore	Lawrence	1,000	9	37.3	.....	72	14	− 3	8	41	5.10	.....	1.60	.....	6	14	5	12	sw.	W. H. Stoner.
Somerset	Somerset	2,250	57	41.6	+ 5.9	70	20†	0	7	41	3.62	− 1.47	0.92	1.3	12	3	11	17	w.	W. M. Schrock.
Uniontown	Fayette	999	25	45.4	+ 4.5	77	20	8	7	40	4.59	+ 0.50	1.85	4.0	13	2	14	15	nw.	Wm. Hunt.
Warren	Warren	1,137	24	38.2	+ 3.0	74	14	− 5	8	39	7.25	+ 4.15	2.76	7.5	18	10	1	20	nw.	Anna Simpson.
Maryland.																				
Deer Park	Garrett	2,457	20	41.8	+ 5.0	77	25	− 1	7	42	3.28	− 0.86	0.55	9.8	14	.....	.....	.....	.....	S. P. Specht.
Grantsville	.....do	2,351	20	40.0	+ 3.0	76	25	1	7	38	2.71	− 1.85	0.55	5.0	12	8	10	13	.....	J. S. Miller.
Oakland	.....do	2,461	14	41.2	+ 3.8	74	25	− 6	8	45	3.15	− 0.59	0.70	6.1	17	9	13	9	w.	R. E. Weber.
West Virginia.																				
Bancroft	Putnam	574	10	45.8	− 0.1	85	20†	11	7	57	4.97	+ 0.97	1.90	1.2	12	10	0	21	ne.	R. E. Dent.
Beckley	Raleigh	2,440	14	43.8	+ 0.9	76	26	17	3	36	4.35	+ 0.69	1.40	2.0	6	7	4	20	w.	John A. Ewart.
Bens Run	Pleasants	622	12	45.8	+ 1.8	80	25	9	7	42	3.91	− 0.60	1.21	3.0	15	17	4	10	.....	J. D. Riggs.
Bluefield	Mercer	2,563	19	47.0	+ 2.7	74	25	12	7	45	4.12	+ 0.12	1.60	.....	6	19	4	8	.....	Norfolk & Western R. R.
Buckhannon	Upshur	1,472	23	45.0	+ 3.0	80	25	5	7	53	4.58	+ 0.09	1.30	3.0	12	11	10	10	.....	H. A. Darnell.
Cairo	Ritchie	667	11	46.3[i]	+ 1.6	80[a]	25	5[i]	7	37[i]	5.16	+ 1.12	1.40	2.0	16	4[a]	15[a]	11[a]	w.	Van A. Zevely.
Central Station	Doddridge	900	11	46.0	+ 2.9	79	25	2	7	44	1.95	− 1.13	0.55	2.0	12	6	11	14	w.	G. W. Sherwood.
Charleston	Kanawha	598	28	50.9	+ 0.7	89	14	13	7	40	4.64	+ 0.31	2.55	T.	13	12	5	14	w.	R. C. Hewes.
Creston	Wirt	612	12	47.6	+ 3.2	80	25	3	7	46	4.66	+ 0.78	1.60	1.5	11	11	6	14	sw.	J. M. Reed.
Cuba	Jackson	544	13	45.8	+ 0.5	79	14	4	7	51	4.28	+ 0.62	1.48	1.0	14	5	19	7	nw.	C. T. Perry.
Doane	Wayne	.....	6	54.4	.....	79	21	33	2	34	6.25	.....	2.49	.....	6	18	0	13	w.	L. A. Smith.
Elkhorn	McDowell	1,933	21	49.5	+ 2.9	76	24	17	7	36	5.37	+ 0.98	2.05	T.	11	8	12	11	w.	J. J. Lincoln.
Elkins	Randolph	1,940	14	43.6	+ 4.6	78	25	5	7	44	3.11	− 0.96	1.06	3.2	20	6	11	14	w.	U. S. Weather Bureau
Fairmont	Marion	879	21	43.6	.....	78	24†	5	7	50[a]	3.65	− 0.53	1.28	2.5	17	15	4	12	w.	F. P. Hall.
Glenville	Gilmer	738	24	50.0	+ 5.8	84	25	3	7	45	4.35	+ 0.09	2.35	0.5	10	11	10	10	w.	Joe N. Craddock.
Grafton	Taylor	985	21	48.0	+ 5.4	84	20	7	7	46	3.70	− 0.58	1.05	1.0	13	18	2	11	w.	Joseph Gerken.
Green Sulphur Springs	Summers	1,600	18	46.0	+ 2.1	78	25	15	7	44	4.11	+ 0.52	1.21	0.2	8	6	13	12	w.	Arthur George.
Hinton	.....do	1,400	24	45.4	0	80	20	16	7	48	4.88	+ 0.89	1.74	T.	13	9	1	21	sw.	J. B. Lavender., C. E.
Holcomb	Nicholas	.....	1	43.4[a]	.....	79[a]	25	9	7	37	3.92	.....	.....	8.5	12	10	4	17	.....	R. E. Ferguson.
Huntington	Cabell	510	18	45.8	+ 0.4	78	14†	15	7	46	6.28	+ 1.96	2.24	0.4	12	15	0	16	w.	L. H. Hutchinson.
Lewisburg	Greenbrier	2,200	13	44.2	+ 0.5	76	25	12	7	37	5.18	+ 1.19	2.60	T.	7	23	3	5	sw.	Geo. T. Argabrite.
Logan	Logan	665	11	51.2	− 1.1	82	25	19	7	41	4.97	− 0.03	1.51	1.0	14	17	6	8	.....	Dr. J. E. McDonald.
Lost Creek	Harrison	1,033	17	44.4	+ 0.7	78	24†	− 3	7	49	3.01	− 1.52	1.28	2.8	9	13	6	12	w.	Allen Smith.
Madison	Boone	704	8	45.2[c]	.....	83[c]	24	11[b]	6	47[c]	4.57	.....	1.44	2.0	11	10[b]	9[b]	10[b]	.....	S. E. Bradley.
Mannington	Marion	967	11	45.2	+ 0.6	78	25	0	7	43	3.75	− 0.37	1.10	2.5	18	11	6	14	sw.	Jas. A. Morgan.
Marlinton	Pocahontas	2,169	17	40.4	+ 0.5	71	25	12	7	35[a]	5.80	+ 1.84	2.25	T.	8	16[a]	9[a]	5[a]	.....	C. J. McCarty.
Morgantown	Monongalia	1,250	39	46.8[c]	+ 3.8	77[c]	25	6[b]	7	44[c]	3.89	− 0.07	1.24	2.0	11	8[d]	12[d]	7[d]	s.	Horace Atwood.
Moundsville	Marshall	640	11	45.8	+ 1.1	75	25	11	7	35	3.80	− 0.18	1.33	1.5	12	13	2	16	sw.	M. L. Brown.
New Cumberland	Hancock	987	14	41.5	+ 0.7	74	14	3	7	40	5.91	+ 2.46	2.10	T.	16	6	7	18	s.	Frank S. Evans.
New Martinsville	Wetzel	634	20	46.9[e]	+ 2.9	79	14	9	7	42[e]	3.99	+ 0.11	1.14	1.0	15	11	9	11	sw.	Wm. Ankrom.
Nuttallburg	Fayette	2,252	21	41.2[e]	− 0.9	74	14	9	7	40[e]	3.88	+ 0.03	1.80	4.0	7	10[e]	9[e]	7[e]	.....	Miss Donna Tully.
Parkersburg	Wood	638	25	46.0	+ 3.7	77	14	9	7	37	4.13	+ 0.31	1.98	0.6	16	12	6	13	s.	U. S. Weather Bureau.
Parsons	Tucker	1,662	14	43.6	+ 2.8	80	25	1	8	49	3.89	− 0.44	1.00	8.0	16	8	12	11	.....	J. W. Swisher.
Philippi	Barbour	1,192	21	45.6	+ 2.1	80	24†	− 1	7	54	4.62	+ 0.23	1.27	4.8	21	11	9	11	w.	J. D. Dadisman.
Pickens	Randolph	2,785	23	42.8	+ 2.7	75	20	3	7	44	5.48	+ 0.12	1.21	28.0	12	14	7	10	w.	Dr. J. L. Cunningham.
Point Pleasant	Mason	553	23	4.78[d]	+ 1.9	80[d]	14	9[d]	7	43[d]	4.78	+ 0.66	1.80	1.0	11	8	1	22	se.	W. D. Holmes.
Powellton	Fayette	904	16	48.9[b]	+ 5.3	89	....	15	7	42[b]	3.90	− 0.78	1.25	6.0	14	9[b]	15[b]	5[b]	.....	Morris Hansford.
Princeton	Mercer	2,469	13	42.4	− 0.9	74	25	10	7	36	7.90	+ 1.64	4.00	2.0	10	7	17	7	w.	H. Scott.
Robertsburg	Putnam	574	13	44.4	− 2.3	80	25	11	7	45	4.64	+ 0.45	1.62	T.	9	10	1	20	.....	E. P. Turley.
Ryan	Roane	639	10	47.0	+ 1.2	80	24†	6	7	48	4.72	+ 0.36	1.40	4.1	14	9	10	12	.....	Wm. E. Ryan.
Smithfield	Wetzel	919	9	43.8	.....	77	24	1	7	53	5.38	.....	1.90	5.0	18	15	7	9	w.	G. M. Whisler.
Spencer	Roane	710	15	45.9	.....	83	25	5	7	49	4.11	+ 0.47	1.50	1.4	10	3	14	14	.....	A. M. McKown.
Sutton	Braxton	839	10	48.0[b]	.....	82[b]	24	12[a]	6	49[b]	1.77	− 2.72	0.77	1.5	9	9[a]	9[a]	12[a]	.....	Ben Gillespie.
Terra Alta	Preston	3,207	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. B. Elliott.
Union	Monroe	.....	10	43.0	− 1.8	76	25	10	7	39	5.89	+ 1.84	2.65	T.	7	.....	.....	.....	.....	Shelton Clark.
Valley Fork	Clay	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Miss Blanche Pierson.
Webster Springs	Webster	1,500	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. H. Hamrick.
Wellsburg	Brooke	1,225	19	41.8	+ 1.9	72	25	5	7	32	4.79	+ 1.36	1.83	2.0	13	9	10	12	w.	C. P. Waugh.
Weston	Lewis	824	25	44.8	+ 0.2	80	23	6	7	46	3.73	− 0.83	1.40	6.8	16	7	12	12	sw.	Miss C. M. Davis.
Wheeling	Ohio	645	29	43.2[e]	.....	79[f]	14	6[e]	7	44[f]	4.01	+ 1.00	1.86	3.1	16	8	4	19	s.	Miss M. B. Forsyth.
Williamson	Mingo	660	12	47.3	− 1.6	84	25	17	7†	46	4.78	+ 0.23	1.70	T.	10	15	3	13	w.	J. F. Keyser.
Ohio.																				
Amesville	Athens	630	9	45.4	.....	78	14	4	7	43	4.82	.....	1.75	0.5	15	12	8	11	sw.	F. W. Gibson.
Bangorville	Richland	1,380	26	38.0	+ 1.0	72	14	− 3	7	37	12.68	+ 8.94	5.25	6.5	17	4	14	13	sw.	S. M. Painter.
Bellefontaine	Logan	1,276	34	38.6	0	71	14	− 1	7	36	12.50	+ 9.06	5.61	8.3	14	10	13	8	sw.	Cory L. Lane.
Bladensburg	Knox	1,100	20	39.6	+ 0.6	74	14	2	7	37	8.09	+ 4.43	2.63	2.0	12	8	15	8	sw.	Miss Mary Elliot.
Brilliant	Jefferson	700	....	41.4	.....	75	27	3	7†	47	3.63	.....	.....	3.0	7	8	9	14	w.	Mrs. Mary K. Pennell.
Cadiz	Harrison	1,245	9	41.2	.....	74	14	0	7	39	6.90	.....	1.60	5.9	15	8	10	13	sw.	Harry B. McConnell.
Cambridge	Guernsey	803	21	41.8	+ 0.9	76	14	3	7	40	7.64	+ 3.95	2.55	1.0	11	9	15	7	.....	Samuel Mehaffey.
Camp Dennison	Hamilton	570	20	45.1	+ 1.5	76	14†	10	7	44	9.11	+ 4.82	2.85	0.8	15	13	12	6	sw.	Henry F. Pinkvoss.
Canal Dover	Tuscarawas	884	20	38.4	− 1.1	73	14	3	7	34	7.43	+ 3.38	2.70	4.5	14	8	15	8	w.	Ed. S. Slingluff.
Canton	Stark	1,089	30	38.6	+ 2.0	74	14	2	7	33	9.79	+ 6.59	3.00	5.5	18	18	1	12	sw.	Carl H. Meyer.

TABLE 1.—*Climatological data for March, 1913. District No. 3*—Continued.

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 in h or more.	Sky. Number of clear days.	Number of partly loudy days.	Number of loudy days.	Prevailing wind direction.	Observers.
Ohio—Continued.																				
Cardington	Morrow	1,010	18	36.6[a]	− 2.6	72[a]	13	−1[a]	2	38[a]	9.26	+ 6.01	3.00	2.3	11	6	2	23	w.	J. W. Shaw.
Chillicothe	Ross	630	10								6.90				9					Marion Mackey.
Cincinnati	Hamilton	628	42	44.8	+ 2.0	77	14	11	2	39	9.09	+ 5.45	4.32	1.0	15	5	14	12	sw.	U. S. Weather Bureau.
Circleville	Pickaway	604	25	43.9	+ 1.6	78	14	10	7	58	8.47	+ 5.07	2.29	T.	13	17	1	13	s.	Dr. H. R. Clarke.
Clarington	Monroe	600	10	44.2	+ 0.3	78	25	0	7	41	3.53	− 1.15	0.95	0.8	18	5	10	16	sw.	Col. S. Tschappat.
Columbus	Franklin	918	35	40.8	+ 1.6	75	14	6	7	33	8.09	+ 4.88	3.26	1.9	16	10	12	9	sw.	U. S. Weather Bureau.
Coshocton	Coshocton	770	4																	Mrs. Ada Jeffries.
Dayton (1)	Montgomery	899	2	40.9	+ 0.5	73	14	6	2	34	8.89	+ 5.44	4.37	3.5		9	11	11	sw.	U. S. Weather Bureau.
Dayton (2)	do.	790	32	42.0	+ 1.6	74	14	9	2	37	10.36	+ 6.88	3.28	3.9	16					Mrs. Edith L. Boyer.
Delaware	Delaware	896	16	39.4	− 1.2	74	14	5	7	35	9.79	+ 5.72	2.46	2.5	15	13	5	13	w.	De Witt H. Leas.
Demos	Belmont	1,325	25	41.8	+ 2.2	77	19	2	7	42	5.18	+ 1.43	1.85	2.2	19	13	6	12	sw.	J. T. Dysart.
Dennison	Tuscarawas	846	3	42.1[d]		74[d]	14	4[d]	7	36[d]				3.7						Water Supply Co.
Frankfort	Ross	745	21	44.0	+ 1.0	76	14	10	7	40	7.89	+ 4.30	2.20	T.	11	12	6	13	s.	O. A. Cory.
Gallipolis	Gallia	580	1								4.54		1.80	1.0	10					Samuel F. Neal.
Garrettsville	Portage	1,005	29	37.1	+ 2.6	73	14	− 8	8	47	10.80	+ 7.25	4.61	10.0	19	8	12	11	sw.	S. M. Luther.
Granville	Licking	960	31	41.3	+ 2.6	75	14	3	7	33	8.29	+ 4.62	2.68	2.0	12	12	2	17	w.	Dr. L. E. Davis.
Gratiot	do.	1,000	24	41.4	+ 1.5	73	14	4	7	34	9.09	+ 5.13	3.00	5.3	18	6	17	8	w.	W. B. Longstreth.
Green	Adams	500	20	46.7	+ 1.2	79	14	12	7	38	6.22	+ 1.73	3.20	T.	7	14	9	8	sw.	W. F. Kenyon.
Green Hill	Columbiana	1,135	20	38.4	+ 1.3	72	14	2	7	37	6.36	+ 3.14	1.56	2.3	13	7	18	6	sw.	Jos. E. Bentley.
Greenville	Darke	1,060	27	40.2	+ 1.0	73	14	5	2	31	11.51	+ 7.63	4.45	3.0	13	5	15	11	sw.	Geo. A. Katzenberger.
Hamilton	Butler	601	1								9.20			2.0	13					Earl W. Stout.
Haydenville	Hocking	700	1	46.2[c]		77[c]	14	2[c]	7	44[c]	6.65		1.63		10				s.	H. W. Stiers.
Hillsboro	Highland	1,063	34																	Carey H. Roush.
Ironton	Lawrence	575	30	47.6	+ 3.8	79	14	13	7	45	5.75	+ 1.75	2.67	1.0	16	11	10	10	sw.	James Bull.
Kenton	Hardin	1,015	21	38.0	− 0.9	70	20	2	2†	31	9.30	+ 5.42	3.60	3.0	10	14	8	9	s.	Frank B. Rarey.
Killbuck	Holmes	1,087	20	42.0	+ 3.1	73	14	2	7	39	12.18	+ 8.49	3.75	4.3	14	23	0	8	se.	John A. Schonauer.
Kings Mills	Warren	640	1								10.24		4.06	2.4	15	14	0	17	sw.	Frank M. See.
Lancaster	Fairfield	898	18	43.3	+ 1.2	74	13†	8	7	37	9.28	+ 5.30	2.48		14	17	3	11	sw.	R. L. Renshaw.
McConnellsville	Morgan	710	29	43.6	+ 3.2	76	14	5	7	39	5.37	+ 1.92	1.80	1.4	15	8	8	15	w.	C. H. Morris.
Marietta	Washington	627	93	46.4	+ 4.1	77	14	8	7	45	3.29	− 0.22	1.33	0.1	16					Prof. T. D. Biscoe.
Marion	Marion	980	35	39.7	− 0.3	75	14	2	7	35	12.58	+ 9.19	4.39	7.0	13	4	18	9	sw.	Dr. E. H. Raffensperger.
Milfordton	Knox	1,200	21	39.4	+ 1.7	72	14	0	7	34	7.32	+ 3.35	2.25	10.0	12	13	9	9	sw.	L. H. Burgess.
Milligan	Perry	875	20	42.6	+ 0.5	76	14	0	7	46	7.39	+ 3.43	2.04	1.0	11	6	17	8	sw.	V. C. Eveland.
Millport	Columbiana	1,145	20	38.7	− 0.3	73	14	1	7	39	6.53	+ 2.91	1.90	0.6	15	5	12	14	sw.	G. F. Copeland.
Nellie	Coshocton	850	13	39.1	0	74	14	− 2	7	49	8.34	+ 4.91	2.60	2.3	10	7	14	10	sw.	Ethel L. Gammertsfelder.
New Berlin	Stark	1,100	20	38.0	+ 0.3	70	14	0	7	39	8.33	+ 5.19	3.30	1.0	11	16	5	10	w	Clayton Holl.
New Waterford	Columbiana	1,053	18	38.9	+ 0.1	72	14	3	7†	36	6.93	+ 2.80	1.63	2.1	13	13	8	10	sw.	Sam. C. Scott.
O. S. University	Franklin	757	30	41.8	+ 2.8	77	14	8	2†	30	9.00	+ 5.57	2.54		15	9	10	12	w.	Prof. H. C. Lord.
Oregonia	Warren																			E. H. Stephens.
Pataskala	Licking	1,015	21	40.7	+ 2.4	73	14	4	7	35	8.21	+ 4.27	2.37	3.4	18	6	16	9	sw.	J. N. Ridenour.
Peebles	Adams	645	2	44.9[b]		80[d]	14	6	7	48[d]	5.74		2.48	0.6	17	6	15	10	w.	Ora O. Smalley.
Philo	Muskingum	1,018	18	42.6	+ 1.1	73	14	4	7	35	7.47	+ 3.28	2.29	0.9	15	9	10	12	sw.	L. C. Burckholter.
Piqua	Miami	847	3																	Harry L. Roberts.
Plattsburg	Clark	1,130	20	40.0	− 0.1	71	14	5	7	30	9.02	+ 5.16	2.10	10.0	14	8	13	10	s.	F. E. Stewart.
Portsmouth	Scioto	527	82	46.2[f]	+ 1.2	78[f]	24	12[e]	2	42[f]	5.33	+ 1.55	2.90	T.	9	9	3	19	sw.	Dr. H. A. Schirrmann.
Prospect	Marion	909	3																	Neil J. Gast.
Sidney	Shelby	985	30	39.6	+ 1.1	72	14	4	7	34	10.66	+ 7.21	3.96	6.1	17	14	4	13	sw.	Hamline B. Blake.
Somerset	Perry	1,080	14	43.2	+ 0.9	74	14	4	7	35	7.05	+ 3.76	2.50	3.5	11	10	13	8	s.	Miss M. W. C. Sheridan.
Springfield	Clark	980	19								10.06	+ 5.85	3.57		15	9	14	8	s.	W. A. Webster.
Summerfield	Noble	1,187	7	41.0		75	14	3	7	37	5.46		2.07	1.9	18	9	16	6	sw.	H. R. McClintock.
Syracuse	Meigs	583	2	46.2		75	14	8	7	37	3.81		1.61	1.0	12	5	10	16		Irving R. Karr.
Thurman	Gallia	696	20	47.6	+ 2.5	79	14	9	7	41	3.18	− 0.08	1.65	T.	6	7	11	13		D. D. Thomas
Toboso	Licking			39.4		76	15	4	7	42	8.29		3.07	0.8	11	8	9	14	w.	H. A. Albyn.
Urbana	Champaign	1,031	45	40.0	+ 0.1	73	14	1	7	34	10.53	+ 6.95	3.12	9.2	15	7	18	6	sw.	Prof. J. H. Williams.
Warren	Trumbull	900	24	39.9[a]	+ 2.4	75[a]	14	2[a]	7	32[b]	9.83	+ 6.60	2.92	8.7	15	11	9	11	sw.	M. D. McCorkle.
Waverly	Pike	590	30	45.8	+ 3.3	78	14	10	7	42	5.91	+ 2.07	2.57	T.	15	9	5	17	s.	Dr. Peru Hutt.
Waynesville	Warren	700	28	41.8	− 0.6	73	14	8	2	37	9.01	+ 5.11	2.56	1.3	13	10	12	9	sw.	Charles Michener.
Wooster	Wayne	1,030	34	38.5	+ 1.9	74	14	1	7	35	11.84	+ 8.41	4.84	6.3	14	13	3	15	sw.	Experiment Station.
Youngstown	Mahoning	846	20											2.0						J. M. Dickey.
Zanesville	Muskingum	700	26																	S. G. Sprague.
Indiana.																				
Anderson	Madison	892	18	40.0	− 1.2	71	14	1	2	32	8.50	+ 4.71	2.51	6.9	14	8	15	8	w.	W. H. Stanton.
Attica	Fountain	522	3								8.24		2.80	11.3	16					J. Frederic Connell.
Bloomington	Monroe	744	18	40.0	− 3.6	76	14	5	2†	54	13.03	+ 7.71	6.56	6.8	17	12	5	14	sw.	Earl E. Ramsey.
Bluffton	Wells	835	18	38.2	− 1.2	74	14	0	2	37	9.59	+ 5.89	3.80	12.8	15	8	9	14	sw.	George R. Rinehart.
Butlerville	Jennings	767	28	44.2	+ 0.8	76	24	8	2	40	12.36	+ 7.59	4.43	3.0	18	10	10	11	sw.	C. F. Hole.
Cambridge City	Wayne	941	22	38.1	− 2.2	73	14	4	2	42	11.80	+ 7.75	5.70		13	11[a]	2[a]	17[a]	s.	Heze Barnett.
Columbus	Bartholomew	632	30	41.4	− 0.2	76	14	6	2	42	12.01	+ 8.45	7.00	4.2	13	12	4	15	sw.	John A. Perry.
Connersville	Fayette	769	31	43.2	+ 3.2	75	14	5	2	40	12.14	+ 8.46	5.67	3.5	9	10	11	10	sw.	H. T. Swindler.
Crawfordsville	Montgomery	780	3	40.0		71	14	0	2	40	9.90		2.80	7.5	9	9	10	12	w.	P. H. Burns.
Delphi	Carroll	668	28	36.7	− 1.2	71	14	1	2†	49	7.94	+ 4.91	3.17	12.0	14	6	10	15		L. A. Higginbotham.
Eminence	Morgan	782	7			71	14				7.35		1.95	4.5	9	8	13	10	sw.	E. E. Kelso, M. D.
Evansville	Vanderburg	386	37	44.4	− 0.2	75	23	10	2	34	8.71	+ 4.11	4.01	4.2	12	8	13	10	s.	U. S. Weather Bureau.
Farmersburg	Sullivan		15	41.0[b]	− 2.8	73[b]	23	5[b]	2	37[b]	7.24	+ 3.49	2.23	3.0	10	4	20	7	s.	Miss Carrie Yeager.
Farmland	Randolph	1,101	31	37.8	− 1.4	70	14	4	2	40	11.12	+ 7.77	4.42		15	10	2	19	sw.	Ralph E. Lyst.
Forest Reserve	Clark	478		44.4		76	14†	8	2	40	10.80		3.30	1.4	16	10	13	8		Ambrose Waltman.
French Lick	Orange	506		41.5		78	25	9	2	45	9.81		4.85	4.1	19	7	16	8		U. S. Weather Bureau.
Greenfield	Hancock	905	10	41.2		71	14	3	2	35	8.86		2.56	5.5	10	0	22	9	w.	Frank Larrabee.
Greensburg	Decatur	954	17	41.0	− 2.6	72	14	5	2	40	9.96	+ 5.30	4.01	2.0	9	9	15	7	sw.	C. C. Morrison, M. D.
Hickory Hill	Brown			43.1		74	23	6	2	40	10.47		4.39	4.0	15	14	8	9		Benjamin W. Douglass.
Huntingburg	Dubois	462	5	42.7[a]		77	22	0	2	48[a]	11.56		4.50	4.0	9					H. Dufendach.
Huntington	Huntington	741	20	37.4	− 1.7	69	14	0	2	33	7.63	+ 4.24	1.95	13.5	14	10	13	8	sw.	Chas. McGrew.
Indianapolis	Marion	822	41	39.4	− 0.3	71	14	4	2	39	7.76	+ 3.75	3.70	8.1	19	8	12	11	sw.	U. S. Weather Bureau.
Jeffersonville	Clark	455	31	46.4	+ 0.6	77	14	15	2	42	7.62	+ 3.30	4.24	T.	13	7	12	12	s.	John C. Loomis.
Judyville	Warren	450	6	37.3		68	13	− 1	2	40	6.66		1.97	11.6	15	7	12	12	s.	W. A. Hill.
Kokomo	Howard	840	21	37.6	− 3.0	69	14	2	2	34	7.59	+ 4.50	2.18	5.5	12	8	13	10	sw.	P. H. Robertson.
Lafayette	Tippecanoe	617	34	35.5	− 2.4	68	14	0	2†	46	7.05	+ 3.96	2.02	8.2	13	18	0	13	sw.	Wm. J. Jones, jr.
Logansport	Cass	620	33	36.8[b]	− 1.1	71[g]	14	0[f]	2	44[g]					10[f]	12[f]	3[f]	10[f]	e.	Chas. Massena.
Madison	Jefferson	460	21	46.5	+ 0.4	77	14	12	2	40	10.17	+ 5.36	2.65	1.0	16	9	14	8	sw.	Miss F. Cooperider
Marengo	Crawford	363	31																	J. M. Johnson.
Marion	Grant	814	27	38.8	− 0.3	70	14†	− 1	2	34	10.31	+ 6.98	2.60	11.3	12	7	15	9	sw.	James F. Hood.
Mauzy	Rush	980	33	40.6	+ 2.2	72	14	3	2	40	12.08	+ 8.24	5.59	6.9	16	7	10	14	sw.	Elwood Kirkwood
Monticello	White	674	3								7.63		2.92	7.5	11	8	6	17	s.	J. E. Loughry.
Moores Hill	Dearborn	980	12	43.5	− 1.7	72	14†	8	2	39	8.99	+ 4.73	2.78	5.0	18	14	6	11	sw.	W. S. Bigney.
Mount Vernon	Posey	410	27	43.4	− 1.8	75	24	11	2†	40	7.96	+ 2.98	2.55	3.0	12	8	8	15	sw.	Guy B. Green.
Nashville	Brown			42.7		75	23	5	2	40	11.69		6.01	5.7	15	5	10	16	sw.	W. C. Goble.
Paoli	Orange	611	16	43.6	− 2.3	76	14†	6	2	43	10.23	+ 5.33	3.46	3.0	14	8	15	8	sw.	James A. Gillum.
Princeton	Gibson	481	31	44.4	+ 0.2	77	23	9	2	39	10.49	+ 6.29	4.37		9	12	4	15	sw.	Albert Mills.
Richmond	Wayne	972	28	41.2	+ 2.0	73	14	6	2†	34	12.89	+ 9.61	5.30	2.3	15	4	17	10		Walter Vossler

TABLE 1.—*Climatological data for March, 1913. District No. 3*—Continued.

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.
Indiana—Continued.																				
Rochester	Fulton	775	8	36.5	.....	66	14	− 2	2	30	6.53	.....	1.85	8.4	12	10	8	13	.....	G. P. Keith.
Rockville	Parke	722	27	40.6	− 0.2	72	13	1	2	42	8.35	+ 4.94	2.87	7.0	15	6	15	10	sw.	C. A. Lee.
Rome	Perry	370	10	47.2	− 1.2	77	20	13	2	36	8.48	+ 3.60	3.13	0.5	15	11	9	11	sw.	Adam Anspach.
Salamonia	Jay	950	8	37.5[a]	.....	70	14	0[a]	2	35[a]	12.20	.....	3.55	10.0	17	14	10	7	sw.	S. A. Armstrong.
Salem	Washington	717	20	44.1	− 0.6	75	14	7	2	38	9.35	+ 4.72	3.10	4.5	16	8	14	9	sw.	Emmet S. Allen
Scottsburg	Scott	570	19	44.5	− 1.4	77	23	10	2	44	10.04	+ 5.36	3.41	1.0	9	10	12	9	s.	Frank H. Park.
Seymour	Jackson	610	26	44.8	+ 1.5	76	14†	8	2	41	10.82	+ 6.46	5.43	3.0	15	5	20	6	w.	J. Robt. Blair.
Shelbyville	Shelby	768	9	42.4	.....	74	14	5	2	39	9.34	.....	3.57	8.2	21	3	21	7	sw.	Edgar G. Hodson.
Shoals	Martin	523	6	43.7[b]	.....	75[b]	13	9[a]	2	47[b]	13.14	.....	6.66	6.0	11[a]	11[a]	2[a]	17[a]	s.	Rev. G. Halleck Rowe.
Terre Haute	Vigo	498	23	40.1	− 3.9	72	23	4	2	37	6.62	+ 3.13	2.96	6.0	15	5	16	10	s.	U. S. Weather Bureau.
Veedersburg	Fountain	612	14	39.7	− 3.8	69	14	1	2	40	8.28	+ 5.52	2.00	9.0	18	17	8	6	s.	L. A. Culver, jr.
Vevay	Switzerland	525	32	46.3	+ 2.5	76	14†	9	2	33	9.55	+ 5.29	3.65	3.5	11	7	8	16	se.	Miss Frederica Boerner.
Vincennes	Knox	431	21	43.0	− 1.3	78	23	7	2	43	12.95	+ 8.00	6.20	4.0	11	12	5	14	s.	Garrett V. List.
Washington	Daviess	484	17	43.2	− 2.7	76	23	7	2	39	11.99	+ 6.97	5.83	3.0	12	15	7	9	s.	Charles C. Feagans.
Whitestown	Boone	529	5	36.6	.....	68	13†	3	2†	49	8.93	.....	3.09	9.0	16	3	24	4	s.	Clyde O. Laughner.
Winona Lake	Kosciusko	865	6	36.4	.....	70	14	− 3	2	32	6.91	.....	1.73	11.0	14	2	24	5	w.	Rev. Albert A Young.
Worthington	Greene	526	31	43.0	− 0.3	73	23	5	2	32	10.13	+ 6.10	4.25	6.0	12	9	15	7	sw.	D. W. Solliday.
Illinois.																				
Albion	Edwards	531	22	43.6	− 1.1	78	23	8	2	42	11.64	+ 7.12	6.23	1.8	11	14	6	11	sw.	B. F. Michels.
Casey	Clark	645	10	.....	.....	.....	.....	.....	.....	.....	6.95	+ 2.87	1.58	8.0	13	10	12	9	s.	Wm. Chenoweth
Charleston	Coles	720	28	40.0	− 1.0	68	23†	7[a]	2	34[a]	7.21	+ 3.76	2.76	6.2	10	6	15	10	s.	Jacob B. Daisy.
Danville	Vermilion	604	12	39.4	− 0.2	68	24	1	2	39	7.72	+ 4.18	3.00	12.1	18	12	6	13	sw.	J. J. Lemon.
Equality	Gallatin	421	15	46.6	− 1.9	80	24	10	2	35	7.77	+ 3.21	3.02	2.5	10	15	11	5	s.	Dr. L. W. Gordon.
Fairfield	Wayne	450	20	43.8	− 1.3	78[a]	23	8	2	42[a]	12.43	+ 7.93	6.13	3.1	10	9	13	9	nw.	George A. Tromly.
Flora	Clay	495	27	42.6	− 0.3	76	23	6	2	42	8.03	+ 4.15	5.35	8.0	10	15	7	9	sw.	W. L. Hanna.
Golconda	Pope	500	35	46.0	− 0.7	82	24	13	2	36	10.77	+ 6.14	5.31	4.0	10	14	3	14	nw.	Dr. D. Lawrence.
Hoopeston	Vermilion	715	11	37.5	− 3.1	67	19	− 2	2	35	6.96	+ 3.66	2.10	9.1	19	12	9	10	.....	S. F. Hoskinson.
McLeansboro	Hamilton	462	30	44.0	− 0.6	78	23	8	2	40	9.91	+ 5.58	4.35	5.5	14	15	2	14	s.	Prof. W. C. Fairweather.
Metropolis	Massac	346	2	.....	.....	.....	.....	.....	.....	.....	9.13	.....	3.74	2.4	10	14	7	10	s.	Henry H. Humma.
Montrose	Effingham	599	3	39.2[a]	.....	71[a]	23	3[a]	2	37[b]	6.30	.....	2.03	5.3	13	9	15	7	sw.	J. C. Spitler.
Mount Carmel	Wabash	424	12	41.7	− 3.9	77	23	9[b]	2	52[b]	12.13	+ 7.19	6.20	4.8	14	.....	.....	.....	.....	Mrs. H. M. Phillips.
New Burnside	Johnson	613	8	44.1	− 3.5	79	24	9	2	43	6.95	+ 2.43	2.50	4.5	12	17	5	9	s.	Thomas H. McCabe.
Newton	Jasper	484	2	.....	.....	.....	.....	.....	.....	.....	6.30	.....	2.06	4.4	11	15	5	11	.....	J. M. Hicks.
Olney	Richland	486	26	40.0	− 4.0	75	23	6	2	51	9.57	+ 5.04	4.81	5.3	10	12	13	6	sw.	John T. Ratcliff
Palestine	Crawford	500	31	42.1	− 0.3	74	23	6[a]	2	39[a]	8.05	+ 3.80	3.67	4.0	14	12	8	11	s.	Duane Shaw.
Paris	Edgar	600	20	36.2[a]	− 4.2	65[a]	30	2[a]	2	40[b]	7.09	+ 4.89	2.45	5.2	8	4	20	7	sw.	H. P. Twyman.
Philo	Champaign	700	29	37.3	− 1.6	67	23†	0	2	37	6.09	+ 3.02	1.96	3.7	11	10	12	9	nw.	H. A. Burr
Rileyville	Saline	400	16	.....	.....	.....	.....	.....	.....	.....	8.17	+ 3.83	3.14	4.0	13	13	4	14	s.	W. H. Thornberry.
Shawneetown	Gallatin	307	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Mary O. Spivey
Tuscola	Douglas	644	20	.....	.....	.....	.....	.....	.....	.....	6.15	+ 2.75	2.05	8.0	10	2	20	9	w.	Joseph O'Neal.
Urbana	Champaign	751	11	37.0	− 3.1	66	24	− 1	2	37	5.99	+ 2.86	2.27	8.0	13	4	19	8	sw.	University of Illinois.
Kentucky.																				
Alpha	Clinton	.....	19	50.8	+ 0.1	76	14	18	7	30	9.70	+ 3.53	6.90	T.	4	14	3	14	s.	W. W. Hicks.
Anchorage	Jefferson	700	12	45.2	− 2.2	78	23	11	7	38	7.15	+ 3.13	3.50	0.7	10	15	3	13	sw.	C. E. Barrett.
Bardstown	Nelson	637	16	46.8	− 0.8	79	23	15	2†	44	6.18	+ 1.16	2.60	1.0	10	12	5	14	se.	T. S. Talbott.
Beattyville	Lee	650	9	47.1	− 0.9	85	20	10'	7	53	9.70	+ 4.64	3.28	2.0	12	13	10	8	w.	G. W Cann.
Beaver Dam	Ohio	441	10	45.8	− 1.7	78	23	15	2	48	6.74	+ 2.40	3.00	T.	7	12	6	13	s.	W. T. Austin
Berea	Madison	1,070	12	44.9	− 4.6	78	25	11	7	39	8.96	+ 4.17	5.25	0.5	11	19	3	8	sw.	C. F. Rumold.
Blandville	Ballard	445	32	46.8	− 0.3	79	24	14	2	28	8.59	+ 3.72	4.76	1.1	10	10	10	11	se.	E. W. Horr.
Bowling Green	Warren	500	24	46.8	− 1.8	79	23	15	2†	44	8.27	+ 3.14	4.10	0.9	7	17	3	11	s.	Mrs. L. G. Causey.
Burnside	Pulaski	773	22	.....	.....	.....	.....	.....	.....	.....	7.45	+ 2.18	3.25	T.	5	.....	.....	.....	.....	G. M. Estes.
Calhoun	McLean	397	10	47.2	− 2.6	77	23†	13	2	37	7.71	+ 3.09	2.86	.07	10	9[a]	13[a]	8[a]	nw.	W. A. Taylor.
Catlettsburg	Boyd	544	24	.....	.....	.....	.....	.....	.....	.....	5.22	+ 0.57	2.36	T.	9	.....	.....	.....	.....	Mrs. Mertie M. Brun
Earlington	Hopkins	370	23	47.0	− 0.5	81	23	15	2	49	6.82	+ 1.31	1.40	T.	7	16	0	15	s.	Brick Southworth.
Edmonton	Metcalfe	600	22	49.2	+ 1.0	77	14†	15	7	38	7.34	+ 1.51	4.30	0.5	10	7[a]	13[a]	10[a]	s.	Miss Lee Ray.
Eubank	Pulaski	1,177	19	46.0[a]	− 0.6	76[a]	14	11[a]	7	46[a]	6.65	+ 1.03	3.00	T.	7	12	5	14	s.	Mrs. Katie Payne
Falmouth	Pendleton	530	24	.....	.....	.....	.....	.....	.....	.....	6.07	+ 1.71	3.23	T.	9	12	2	17	s.	J. V. Oldham.
Farmers	Rowan	668	6	47.8	.....	80	14	10	7	45	5.37	.....	3.20	0.1	10	12	6	13	w.	Lee Craycraft.
Frankfort	Franklin	560	22	47.3	+ 1.1	78	23	14	7	42	6.45	+ 1.18	3.35	0.2	12	12	5	14	s.	J. H. Roberts.
Franklin	Simpson	691	19	49.8	− 0.3	78	14†	17	2†	40	8.43	+ 3.68	4.85	T.	5	2	24	5	se.	J. E. Newman.
Greensburg	Green	581	21	46.6	− 0.2	77	24	16	7	47	8.11	+ 2.61	4.00	T	13	13	3	15	s.	Mrs. Bettie K. H. Alcorn.
High Bridge	Jessamine	762	10	.....	.....	.....	.....	.....	.....	.....	6.23	+ 1.87	3.02	T	9	.....	.....	.....	.....	Miss Lulu Wood.
Hopkinsville	Christian	524	17	48.4	− 2.2	81	23	15	2	38	6.17	+ 1.20	2.53	T.	8	13	2	16	w.	W. F. Randle.
Irvington	Breckinridge	.....	15	46.0	− 1.7	76	23	11	2	33	8.01	+ 3.11	3.75	T.	9	11	8	12	sw.	W. J. Piggott.
Leitchfield	Grayson	635	17	45.6	− 1.6	77	23	14	2	41	6.16	+ 0.94	2.97	T.	6	12	12	7	s.	John E. Stone.
Lexington	Fayette	989	25	44.4	+ 1.0	75	23	13	2	37	6.04	+ 1.32	3.61	0.4	13	9	11	11	s.	U. S. Weather Bureau.
Loretto	Marion	681	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Loretto Academy.
Louisa	Lawrence	.....	0	.....	.....	.....	.....	.....	.....	.....	7.44	.....	3.70	T.	9	.....	.....	.....	.....	Lucien S. Johnson.
Louisville (1)	Jefferson	525	41	45.4	+ 0.1	76	14	12	2	35	7.70	+ 3.38	5.13	T.	12	10	6	15	s.	U. S. Weather Bureau.
Do. (2)	....do	.....	3	47.2	.....	78	23†	12	2	42	7.55	.....	2.78	1.0	12	10	11	10	sw.	W. I. Hunt.
Marion	Crittenden	.....	18	46.6	− 2.0	78	24	12	2	38	6.84	+ 2.05	2.28	T.	5	13	7	11	s.	B. C. Paris.
Maysville	Mason	524	16	44.9	− 0.6	80	14	11	7†	51	4.91	+ 0.17	2.03	1.1	14	17	3	11	se.	Mrs. Mary D. Marsh.
Middlesboro	Bell	1,128	18	50.1	+ 1.6	77	14	17	7	38	8.34	+ 2.86	2.13	0	10	17	10	4	.....	B. H. Perkins.
Mount Sterling	Montgomery	930	23	43.8	− 0.3	74	23	13	7	48	6.51	+ 0.58	2.59	T.	9	12	6	13	se.	James O'Connell.
Owensboro	Daviess	479	16	44.5	− 4.1	75	24	12	2	40	8.32	+ 3.48	3.82	1.0	10	10	5	16	se.	Henry S. Berry.
Paducah	McCracken	341	24	.....	.....	.....	.....	.....	.....	.....	8.81	+ 4.11	3.64	1.0	10	.....	.....	.....	.....	S. A. Fowler.
Pikeville	Pike	.....	5	.....	.....	.....	.....	.....	.....	.....	3.92	.....	1.40	0	6	.....	.....	.....	.....	I. M. Williams
Richmond	Madison	926	21	47.2	+ 1.9	76	23	15	7	36	7.41	+ 2.69	3.75	0.2	11	9	8	14	.....	J. W. Crooke.
St. John	Hardin	777	17	44.2	− 2.4	75	23	9	2	48	7.66	+ 2.32	3.20	1.5	12	16	0	15	.....	Bethlehem Academy.
Scott	Kenton	.....	15	44.2	− 0.1	75	14†	10	2†	43	8.73	+ 4.22	2.86	2.6	15	8	13	10	s.	E. B. Wilson.
Shelby City	Boyle	1,087	19	45.6	− 0.5	77	23	10	7	47	7.50	+ 2.39	4.16	T.	10	17	4	10	sw.	H. F. Ewing.
Shelbyville	Shelby	759	24	45.9	+ 0.6	78	20	14	2	51	7.99	+ 3.08	.....	0.8	....	12	5	14	sw.	C. R. Burnett.
Taylorsville	Spencer	489	11	46.5	− 1.1	76	23	14	7	39	6.90	+ 2.34	3.48	0.9	15	11	10	10	w.	E. D. Bourne.
Williamsburg	Whitley	939	17	48.8	+ 2.0	80	16†	15	7	50	6.22	+ 1.45	2.05	T.	6	16	0	15	w.	Noble C. Jones.
Williamstown	Grant	943	11	41.8	− 3.1	75	14†	9	7	53	6.80	+ 2.46	3.97	1.0	11	12	3	16	.....	Miss Rose Carter.
Tennessee.																				
Ashwood	Maury	725	40	50.2	− 0.5	77	25	19	7	35	4.89	− 0.55	2.50	0	5	13	4	14	s.	Mrs. Joseph W. Fleming.
Benton	Polk	880	29	52.2	+ 1.3	78	14	20	7	41	8.11	+ 2.38	2.38	T.	9	13	9	9	n.	George L. Williams.
Birds Bridge	Greene	.....	7	.....	.....	.....	.....	.....	.....	.....	7.26	.....	2.60	0	9	11	1	19	w.	David B. George.
Bluff City	Sullivan	.....	18	.....	.....	.....	.....	.....	.....	.....	6.77	+ 2.20	2.37	T.	11	11	4	16	e.	Walter C. Masengill.
Byrdstown	Pickett	1,026	21	50.8	+ 0.2	77	25	21	2	36	5.01	− 0.69	3.70	T.	5	4	11	16	s.	John Lacy.
Carthage	Smith	500	30	50.8	+ 1.0	79	25	19	7	39	9.40	+ 4.12	4.50	.....	10	17	2	12	sw.	Earl C. Pickering.
Cedar Hill	Robertson	625	15	49.8	− 1.4	78	25	18	2†	39	9.05	+ 4.28	4.72	T.	10	15	6	10	s.	J. Frank Ruffin.
Celina	Clay	494	10	.....	.....	.....	.....	.....	.....	.....	8.77	+ 3.49	4.28	T.	5	15	0	16	n.	Charles M. Anderson.
Charleston	Bradley	709	29	.....	.....	.....	.....	.....	.....	.....	7.89	+ 1.95	2.10	.....	9	12	1	18	s.	John T. Weeks.
Chattanooga	Hamilton	808	34	51.4	+ 0.1	77	14	23	7	32	6.74	+ 0.53	2.19	0	13	10	8	13	s.	U. S. Weather Bureau.

TABLE 1.—*Climatological data for March, 1913. District No. 3*—Continued.

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.
Tennessee—Continued.																				
Clarksville	Montgomery	500	53	49.6	+ 1.3	81	25	19	2	36	8.39	+ 3.33	4.46	T.	9	15	7	9	s.	Prof. James A. Lyon.
Clinton	Anderson	800	29								5.97	+ 0.18	2.00		7	13	4	14	sw.	H. C. Slover.
Crossville	Cumberland	1,895	1	47.2		73	14	14	7	38	9.40			T.	13	19	5	7		J. E. Converse.
Dandridge	Jefferson		8								4.64		2.10	0	7	14	2	15	w.	James E. Swann.
Decatur	Meigs	850	18	50.8	− 1.3	78	14	18	3	41	8.46	+ 1.78	2.10	T.	10	12	12	7	sw.	J. Worth Lillard.
Dickson	Dickson	800	20	49.4	− 1.6	79	25	16	7	50	8.18	+ 2.84	4.15		7	13	9	9	s.	Nathan R. Sugg.
Dover	Stewart	500	17	48.4	− 3.0	82	23	18	7	40	6.99	+ 2.01	2.67	T.	6	13	7	11	s.	Asa M. Tippit.
Dunlap	Sequatchie	726	4	51.0		77	14	22	3†	37	7.52		1.54	T.	10	12	9	10		S. Bradford Boyd.
Elizabethton	Carter	1,575	22								7.15	+ 2.87	1.80	0.5	8	14	1	16	w.	Charles Boyd.
Erasmus	Cumberland	1,850	16	46.4	− 2.1	74	14†	7	7	44	8.62	+ 2.01	2.63	0.1	10	9	14	8	se.	Mrs. Sarah E. Ashley.
Florence	Rutherford	560	31	50.6	+ 0.6	77	25	21	7	33	7.93	+ 2.50	3.20	T.	7	17	5	9	s.	Erastus P. Bell.
Franklin	Williamson	648	25	49.6	− 1.0	75	24†	20	7	33	8.78	+ 3.28	5.51		7	17	3	11		Young M. Rizer.
Halls Hill	Rutherford		10								6.75	+ 1.51	2.25	T.	7	17	3	11	s.	Edward F. Wright.
Hohenwald	Lewis	983	30	50.1	+ 0.1	78	25†	17	7	35	7.67	+ 1.41	4.82	0	9	17	9	5	s.	Mrs. Mary Lutzelman.
Iron City	Lawrence	600	18	50.8	− 2.3	80	31	16	7	40	7.73	+ 1.19	3.47	0	5	4	26	1	nw.	Capt. H. Paul Seavy.
Jefferson City	Jefferson		3								5.67		1.24	T.	9					Calvin C. Maddox.
Johnson City	Washington	1,620	20	48.8	0.0	78	25	19	7	45	7.05	+ 1.83	2.15	T.	8	22	6	3	nw.	Ward Crosby.
Johnsonville	Humphreys	364	29	50.5	− 2.0	81	23†	18	7	38	8.60	+ 4.12	4.00	0	9	13	6	12	s.	Miss Sallie B. Mathews.
Kingston	Roane		29								6.75	+ 1.18	2.86		8	14	0	17	n.	Henry Crumbliss.
Knoxville	Knox	977	42	50.2	+ 2.0	79	25	21	7	33	6.43	+ 0.85	2.34	T.	13	13	7	11	sw.	U. S. Weather Bureau.
Lebanon	Wilson	522	4	49.7		77	23	16	7	40	9.19		4.80	T.	6	9	8	14	s.	H. Logan Fields.
Lewisburg	Marshall	727	19	50.2	− 1.4	79	25	17	7	37	9.44	+ 3.58	3.98	T.	10	13	7	11	s.	Dr. Robert D. Crutcher.
Liberty	Dekalb	672	16								6.20		2.25		6	16	0	15	n.	Bratten Evans.
Loudon	Loudon	816	22								7.40	+ 2.50	2.45		8	15	2	14	w.	Robert W. Clark.
Lynnville	Giles	770	26	47.7	− 2.5	77	25	22	7	30	8.82	+ 3.00	3.63	T.	4	15	15	1	s.	Col. James H. Burrow.
McGhee	Monroe		8								6.30		1.95	T.	8	16	0	15	s.	Miss Alice L. Headrick.
McMinnville	Warren	1,011	32	51.3	+ 0.6	79	26	16	7	40	7.11	+ 1.45	3.10	T.	9	16	7	8	s.	Horace H. Stiles.
Maryville	Blount	1,050	20	51.0	− 0.4	79	19†	20	7	39	5.80	+ 0.18	1.89	0	5	20	7	4	sw.	Mrs. Sam T. Broyles.
Mountain City	Johnson	2,486	16	46.8	+ 1.0	73	25	15	7	40	7.10	+ 2.61	1.46	T.	9	20	7	4		Edward E. Barry.
Nashville	Davidson	654	42	48.8	− 0.3	78	25	21	2	33	4.54	− 0.90	2.96	T.	12	13	6	12	se.	U. S. Weather Bureau.
Newport	Cocke	1,280	23	52.0	+ 2.4	81	25	20	7	34	5.91	+ 0.93	1.75	T.	11	9	1	21	w.	Dr. Charles T. Burnett.
New River	Scott	1,215	5								8.03		2.54	T.	5	14	4	13	sw.	Burl W. Buttram.
Palmetto	Bedford	770	23	51.0	− 0.8	79	25	19	7	36	8.90	+ 3.47	4.35	T.	4	15	7	9	n.	Mrs. Ross Woods.
Perryville	Decatur	387	17	51.2		85	24	18	7	38	8.91	+ 3.29	3.14	0	8	15	5	11	n.	Oliver C. Kirksey.
Pinewood	Hickman		7																	Miss Carrie Cash.
Rogersville	Hawkins	1,150	29	50.4	+ 2.5	80	25	19	7	38	5.55	+ 0.65	2.13	T.	12	18	8	5	w.	Fred Beal.
Rugby	Morgan	1,410	24	47.0	+ 0.1	76	14	10	7	43	6.95	+ 0.92	2.15	0.5	8	9	8	14	n.	Samuel G. Wilson.
Savannah	Hardin	442	30	51.6	− 0.7	79	23†	20	7	47	10.04	+ 4.52	5.95	T.	10	14	6	11	s.	W. H. Carrington.
Sevierville	Sevier		7	51.0		83	25	19	7	41	5.90		1.25	T.	9	8	8	15	sw.	Herbert O. Eckel.
Sewanee	Franklin	2,000	19																	University of the South.
Sparta	White	920	7	50.2		78	14†	16	7	40	5.27		2.25	T.	5	6	13	12	w.	Ernest H. Hull.
Springville	Henry	377	11	48.6	− 3.3	82	23	17	7	41	6.09	+ 1.54	2.68	T.	10	15	6	10	s.	Hudnall A. Boden.
Tazewell	Claiborne	1,350	16	45.6		78	25	14	7	43	7.18	+ 2.01	3.05	T.	7	11	4	16	nw.	J. Caloway Carr.
Tullahoma	Coffee	1,075	26	50.4	+ 0.6	76	25	20	7	36	7.72	+ 1.72	2.51	T.	10	9	13	9	s.	Reuben T. Moore.
Walling	White	909	9								6.83		2.00	T.	9	14	4	13	se.	John K. Roberts.
Waynesboro	Wayne	753	28	49.6	− 1.0	77	25	17	7	36	8.28	+ 2.61	4.05	T.	9	9	14	8	s.	Harry C. Boyd.
Wildersville	Henderson	400	17	49.8	− 2.9	79	25	20	7	48	7.29	+ 2.67	2.75	T.	6	14	4	13	w.	William R. Wilson.
Worsham	Sumner	550	11								7.24	+ 2.59	3.96	T.	10	19	1	11	w.	James G. Elizer.
Yukon	Lincoln	850	17	49.4	− 3.8	76	25	19	7	34	7.12	+ 0.91	2.60	0	8	13	7	11	n.	William P. Watson.
Alabama.																				
Bridgeport	Jackson	660	13								6.86	+ 1.36	2.17	0	8					R. L. Moore.
Decatur	Morgan	573	31								6.99	+ 0.93	2.31	T.	9					Earnest A. Carriger.
Florence	Lauderdale	563	29	50.2	− 2.9	81	25	20	7	42[a]	5.58	+ 0.05	2.00	0	8					Robt. E. Coburn.
Guntersville	Marshall	580	3								5.62		2.18	0	9					L. S. Long.
Madison	Madison	573	19	52.4	− 2.2	78	31	28	28	45	4.45	− 1.26	2.15	0	3	14	7	10		Edward Humphrey.
Riverton	Colbert	360	16	48.2	− 5.0	80	25	19	7	44	5.64	− 0.39	2.32	0	8					James F. Long.
Scottsboro	Jackson	652	30	53.0	0.0	79	31	22	7	41	4.36	− 1.79	1.44	T.	10	13	2	16	se.	H. A. Caldwell.
Tuscumbia	Colbert	488	31	50.4	− 3.8	79	25	24	7	39	5.13	− 0.75	1.76	0	8					Samuel Moore.
Georgia.																				
Diamond	Gilmer	2,020	21	51.4	+ 1.4	76	22	21	3	35	13.52	+ 7.00	3.90	T.	14	12	7	12		R. A. Kimzey.
North Carolina.																				
Altapass	Mitchell	2,629		45.8		67	31	16	3	42	8.03		3.08	T.	8	18	6	7	n.	Altapass Inn.
Andrews	Cherokee	1,800	3	50.2		78	26	19	3	43	9.69		2.89	0	12	15	8	8	sw.	J. D. Link.
Asheville	Buncombe	2,255	34	47.8	+ 2.9	72	21	18	7	35	5.42	+ 0.34	2.07	T.	13	12	5	14	se.	U. S. Weather Bureau.
Banners Elk	Avery	3,750	5	42.2		67	22	10	7	41	9.79		2.65	1.0	11	16	0	15	w.	T. L. Lowe.
Blantyre	Transylvania	1,900	1	48.2		76	31	16	3	42	9.83		3.55	0	12	12	7	12	sw.	R. W. Collett.
Blowing Rock	Watauga	4,090	4	41.6		63	20†	8	7	38	6.74		3.22	0	8	9	8	14	nw.	E. G. Underdown.
Bryson City	Swain	2,000	25								8.60	+ 2.72	2.75	0	13					D. K. Collins.
Cullowhee	Jackson	2,100	3	49.1		73	22†	16	3†	42	8.62		2.20	T.	11	13	7	11	nw.	Frank H. Brown.
Hendersonville	Henderson	2,167	16	48.4	+ 2.2	78	31	17	7	38	10.14	+ 4.27	3.65	0	13	21	4	6	nw.	Dr. L. B. Morse.
Highlands	Macon	3,850	23	43.4	+ 1.4	65	31	12	7	39	20.06	+12.27	5.38	0	14	11	5	15	se.	T. G. Harbison.
Hot Springs	Madison	1,326	15	50.6	+ 1.3	80	25	18	7	36	6.43		1.90	2.0	10	15	10	6	w.	P. A. Garner.
Jefferson	Ashe	2,900	6	45.2		68	21	12	7	40	8.46		2.00	T.	11	10	2	19	w.	Prof. E. J. Johnson.
Marshall	Madison	1,646	11	49.2	+ 0.7	73	25	21	3†	38	7.27	+ 2.64	1.93	T.	10	11	7	13	w.	M. L. Church.
Murphy	Cherokee	1,614	37								7.26	+ 0.73	2.01	0	11					Miss Victoria Mingus.
Rock House	Macon	3,100	21	45.6	− 1.8	68	31	17	7	35	16.18	+ 9.11	3.67	T.	15	14	7	10	nw.	Barry C. Hawkins.
Transon	Ashe	2,600	1	44.2		65	20†	12	7	38	10.65		3.10	0	10	17	4	10	nw.	S. M. Transou.
Waynesville	Haywood	2,792	19	46.8	− 1.8	72	25	14	7	39	10.27	+ 4.80	3.80	0	11	16	3	12	sw.	Mrs. C. E. Quinlan.
Virginia.																				
Blacksburg	Montgomery	2,170	22	46.0	+ 2.7	71	20†	14	7	36	6.51	+ 3.14	1.75	0	10	12	5	14	w.	Agricultural Exp. Station.
Burkes Garden	Tazewell	3,250	18	41.7	− 0.5	70	25	6	7	38	6.19	+ 0.99	2.00	T.	8	11	5	15	w.	C. H. Greever.
Elk Knob	Lee	3,243	10	47.4	− 0.4	73	25	12	7	37	6.07	+ 1.44	2.10	T.	10	13	6	12	s.	Henry Nicoll.
Ivanhoe**	Wythe	2,028	9			68	25	16	7	30	7.09		3.10	T.	11	14	7	10	w.	Miss Alice G. Jewett.
Max Meadows	do	2,028	17	45.9	+ 1.1	70	20†	14	7	40	6.39	+ 2.74	2.25	T.	9	14	7	10	w.	James M. Graham.
Mendota	Washington	1,350	4								6.20		2.50	0	8					Frank M. Barker.
Mountain Lake	Giles	4,348	3	37.6		65	26				7.08		2.47	0	9	14	4	13		H. E. Dorland.
Radford	Montgomery	1,773	4								6.29		3.01	0	6					Arthur Roberts.
Speers Ferry	Scott	1,221	17								5.20	+ 0.92	2.00	T.	10					Miss L. E. Venable.
Wytheville	Wythe	2,293	20	45.3	+ 3.0	70	25	14	7	38	5.62	+ 1.17	2.58	T.	10	13	7	11	w.	U. S. Weather Bureau.

[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. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1918. District No. 3, Ohio Valley.*

Stations.	Watershed.	Day of month. 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.
New York.																																	
Allegany	Allegany	.21			T.		.35			.02		.19			.12		.02						.02	*	.76	2.70	.89	1.24	.02			.33	6.87
Bolivar	do.	.10	.10		.20		.10			T.							T.	.10				T.		.38	.30	2.20	.80	1.15				.22	5.65
Olean ‖	do.	.05	.10	.08	.13	T.	.07	T.				.10				T.	T.	.05					T.		.50	.94	1.40	1.12	.11			.30	4.95
Pennsylvania.																																	
Aleppo	Ohio			.05		.10	.30				.22				.37		.02							.10	.08	.58	1.09	.97				T.	3.88
Baldwin	Allegheny	T.	.20		.22		.20			.05	T.				.47	.01	.07	T.						.10	1.00	1.42	1.45	.60	.26			.09	6.14
Beaver Dam ‖	Ohio	.04	.12	T.		.18	.15	.01	T.	T.	.02	.10		.01	.28	.10	.10	.02			T.		.06		.47	1.12	2.03	.90	.02			.05	5.78
Beaver Falls ‖	do.	.01	.10			.14	.12		T.		.02	.15		.01	.20	.13	.01	.02	T.		T.		.01		.59	1.65	1.17	.92	T.			.12	6.08
Brookville	Allegheny	.02	.04		.02	.01	.01	.01	.02			.01			.17		.03	.02				.01			.46	1.80	1.44	.70	.02			.08	5.02
California	Monongahela		T.		T.	T.	.07	.10	.22		.02	.23			.35	.08	T.				.03	.04		T.	.05	.56	1.04	.74				.15	3.68
Cheat Haven	do.	.02	T.		T.	.24	.06		T.		.08	.15		.02	.18	T.	.02	T.			T.	T.		.03	.04	.19	1.11	.92				.03	3.09
Clarion ‖	Allegheny		.15	T.	T.	.10	.10	T.			.20	.15		.10	.10	.20	.15	.10					T.		.50	2.20	1.25	.55	.10			.10	6.05
Claysville	Ohio	T.	T.		.03	T.	.05	T.			T.	.10		.02	.29		T.	.02						.15	.17	.58	1.51	1.02	T.			.03	3.97
Confluence ‖	You'og'ny	.04	T.	T.		T.	.08	.03	T.	T.		.48		T.	.40	.08	T.	T.			.18						1.00	.76	.07			.10	3.22
Coraopolis ‖	Ohio	.02	.08			.08	.12		T.	T.	.03	.08		.02	.28	.02	.02	.01			T.		T.		.44	1.25	2.42	.87	T.			.05	5.80
Davis Island Dam ‖	do.	.02	.06	T.		.15	.10		T.	T.	.01	.11		.01	.27	.07	.01	.05					.03		.40	1.03	2.42	.88	.01			.04	5.67
Derry Station	Allegheny	.04	.02		.27	.07	.06	.02				.43			.25		.04							.11	T.	.30	1.01	.94				.19	3.75
Ellwood City	Ohio		.09		.18	.01	T.		.04	.16		.04			.29	.11	.02	.02					.02		.69	1.81	1.61	.92	T.			.14	6.15
Franklin ‖	Allegheny	.06	.33		.11	.16	.16			.02	.02	.13			.23	.08	.02	.08					.02		1.41	2.22	1.32	.88	.07			.28	7.60
Freeport ‖	do.	.04	.14			T.	.05	T.	T.	T.	.02	.18		T.	.40	.04	.07	T.					T.		.14	1.53	1.15	.35	T.			.05	4.36
Greensboro ‖	Monongahela	.04				.30	.10		T.	T.		.20		.04	.30	.04	T.	.02							.06	.04	1.40	1.12	.08				3.74
Greensburg	You'og'ny	.02			.08	.08	.12	.03	T.	T.	.09	.20		T.	.31	.02	.03	T.				.05	T.	.05	.07	.28	1.29	.65	T.			.16	3.63
Greenville	Ohio	.28	.03		.21	T.	.23	T.		T.					T.	.17	.10	.04				T.	T.	1.34	1.11	3.74	.95	.60	T.			.28	9.08
Herrs Island Dam ‖	Allegheny	.02	.06	T.		.14	.10	T.	T.	T.	T.	.09		.01	.38	T.	.01	.01			T.		.01		.27	.74	1.77	.90	T.			.01	4.52
Indiana	do.		.05		.09	.05	.10				.10	.30			.30						.17			.23	.62	.26	1.17	.80	.05		.15		4.44
Irwin	Monongahela	.07	.02		.11	T.	.21	.01			.04	T.		.18	.28	.05	.03					T.	T.	.24	.11	.27	1.23	.61				.11	3.57
Johnstown	Allegheny	.05	.05		.08	.04	.18	.02	.04	.03	.87	.28		T.	.34	.04	.06	.05			.11	.07		.03	.06	.20	.95	.71	.03		.02	.26	3.97
Lock No. 4 ‖	Monon ahela	T.	.04	T.		.19	.05	T.	T.	T.		.15		T.	.30	.02	T.	.03					.12		.08	.05	1.50	.64	T.			.05	3.22
Lycippus	Allegheny	.08	.03		.03	.50	.02				.11	.41		.01	.30		.02					T.		T.	T.	.55	1.19	1.25				.13	4.63
Mosgrove ‖	do.	.03	.05	.01		.17	.12	.03	.01	.01	.03	.16			.41	.01	.02	.02							.19	1.77	1.93	.67	.05			.10	5.79
Parkers Landing ‖	do.	.02	.20	.02		.12	.10	.05	.05	.02	.01	.22			.32	.04	.02	.06	.02				.02	.01	.62	2.25	1.40	1.25	.20			.18	7.20
Pittsburgh	Ohio	.03	.04		.14	T.	.08	T.	T.	T.	.06	.04		.35	.03	T.	.05	.01			T.	.01	T.	.20	.72	.55	1.66	.38	T.			.02	4.37
Ridgway	Allegheny	.10	.03		.13	.04	.06		.01	.02	.02	.17	.01		.30	.01	.03	.01			.01	.05		.50	1.22	1.26	1.02	.85	.05			.10	6.00
Saegerstown	do.	.24			.34		.24	.01		T.		.08				.15	.09	.11			.01	.03	.01	1.00	1.09	3.70	.74	.98	.03			.16	9.01
Saltsburg ‖	do.	.03	.04	T.		.27	.10	T.	T.	T.	T.	.25		T.	.28	.04	T.	.06			T.		.04		.05	.20	1.50	.77	.05			.01	3.69
Sharon ‖	Ohio	.07	.12		T.	.13	.04	.05	T.	T.	T.	.03		T.	.11	.03	T.	.02					T.		1.19	2.92	1.24	.84	T.			.23	7.02
Skidmore	do.				.10																			.75	1.00	1.60	1.00	.65					5.10
Somerset	You'og'ny	.04	T.			.02		.03			.33	.30			.50		.08					.31				.17	.92	.72				.20	3.62
Springdale ‖	Allegheny	.04	.05			.22	.11				.04	.17		.02	.34	.05		.06							.22	.90	2.03	.92	.05			.02	5.24
Uniontown	Monongahela	.03					.40				.21		.03	.03	.20		.09							.12	.04	1.85	1.36	.05			T.	.18	4.59
Warren	Allegheny	.25	.11		.10	.26	.07	.07				.08				.60	.10	.20					.10	.40	.60	2.76	.10	1.05	.10			.30	7.25
West Newton ‖	You'og'ny	.04	.10	T.		.22	.10	.12	T.	T.	.02	.24		T.	.32	.02	.02	.01			.02		.06		.10	.07	1.62	.64	T.			T.	3.72
Maryland.																																	
Deer Park	You'og'ny		.20			.10	.40				.16	.24			.55	.16	.08			.22		.15				.19	.41	.33				.09	3.28
Grantsville	do.		.10				.20				.10	.47			.50		.10				.19	.25				.55	.05	.10				.10	2.71
Oakland	do.	.02	.06			.10	.16		.04		.10	.24		.02	.54		.04				.33	.14				.20	.38	.70	.01			.07	3.15
West Virginia.																																	
Bancroft ‖	G. Kanawha		.10	T.		.05	T.		.02			.47			.55	.05		T.			.02	.15	.09				1.90	1.52	.05				4.97
Beckley	do.						.20			.70				.90	.20												.95	1.40					4.35
Bens Run	Ohio	.05	.02		.10	.10	.18				.23			.12	.26	.05	.05					.05		.20		.52	1.21	.77					3.91
Bluefield	G. Kanawha								.08	.25		.04										1.40					.75	1.60					4.12
Brandonville ‖	Monong'h'a						.30						.95		.45	.11					.20		.09				1.35	.84				.28	4.57
Buckhannon	do.	T.	T.		T.	.25	.12		T.		.40	.20		T.	.70	.20	.10					.20				.26	.70	1.30				.15	4.58
Cairo	L. Kanawha	.12	.10			.28	.10					.34	.02	.12		.42	T.					.22	.12	.08	.18	.18	1.40	1.40	.08				5.16
Central Station	Mid. Is. Cr'k.	.02	T.		T.	.21	.11				.14	T.		.05	.35	T.	T.	T.				T.		.01	.10	.32	.55	.08	.01			T.	1.95
Charleston ‖	G. Kanawha		.02			.14	.16		.02	.02		.32			.95	.06	T.	T.				.30	.05				1.20	1.35	.05				4.64
Cheat Bridge ‖	Monong'h'a	T.	.10	T.	.03	T.	.04	.03			.06	.70		.20	.80	.04	.08	.02				.15			T.			1.68	.01				3.94
Cortland ‖	do.			.85								.70			.76										.38		.67	1.23					4.59
Creston ‖	L. Kanawha	T.	.05			.42	.02	.03	T.	T.		.43	T.	T	.36	.13		T.					.05				1.60	1.47	.10				4.66
Cuba	Sand Creek	.06	.05		.11		.05		T.		.25	.14		.10	.28	.05	T.					.18		T	.30	.28	1.48	.95				T.	4.28
Davis ‖	Monong'h'a		.08	.10		.10	.20	.50	.10			.84	.05	.05	.65	.05	T.	.25			.21						1.10	.95	.36			.10	5.69
Doane	Big Sandy					.05					.58				1.08							.30					2.49		1.75				6.25
Elizabeth ‖	L. Kanawha	.02	.05			.25	.17	.10	.02			.41			.35	.03	T.						.24			.20	1.17	1.29	.02			.01	4.33
Elkhorn	Big Sandy		T.		.05		T.			.30	.60		.02	.70	.40		T.					.08				.97	2.05	.05			.15		5.37
Elkins	Monong'h'a	.01	.01		.03	.07	.14		.02		.31	.13		.14	.37	.14	.03	.01		T		.12				.22	.49	.70	.02		.01	.14	3.11
Fairmont ‖	do.	.01	.04	T.		.13	.22	T.	T.	T.		.32		.10	.40	.07	T.	.01			.02		.03		.03	.02	1.28	.92	.03			.02	3.65
Glenville ‖	L. Kanawha		.04			.32	.03					.48	.18	.72									.18				1.15	1.20	.05				4.35
Grafton	Monong'h'a	.05	T.	.05			.10		.05		.30	.30		.05	.50	.05						.05				.35	.80	1.05					3.70
Green Sulphur Sp'gs	G. Kanawha		T.				.04		T.		.45	.13			.65	.35	T.					.33				T.	.95	1.21					4.11
Hinton ‖	do.					.04	.02	.06	T.		.24	.58		.06	.88	.34	.02				T.		.26				.62	1.74	.02				4.88
Holcomb	do.		T.			.20	*	*	.35		*	*	.55			.75	T.					.09					*	*	1.98				3.92
Huntington ‖	Ohio	.02	.12			.22	T.		T.			.26			.84	.20		.02				.42	.02				2.24	1.90	.02				6.28
Lewisburg	G. Kanawha				T.		T.		T.		.89			.20	.77	.42	T				T.	.30					*	2.60			T.		5.18
Logan	Guyandotte		.05		T.	.08	.05	T.			.40	.12		.14	.98	.13	.01				T.	.37	T.			.19	.92	1.51	.02				4.97
Lost Creek	Monong'h'a	.04	.05		T.		.16	T.			.11	T.		T.	.30		T.	T.			T.	.04			T.	.18	1.10	1.03				T.	3.01
Madison ‖	G. Kanawha	.05		.20	.05		.10		.12		.03			1.02	.10	T.	T.					.43				1.03	1.44	T.					4.57
Mannington	Monong'h'a	.01	.02		.01	.17	.19		T.		.13	.18		.05	.35	.01	.04	T.			T.	.03		.04	.08	.25	1.00	1.10	T.		T.	.09	3.75
Marlinton	G. Kanawha		T.				T.				.70	.30		.40	1.00	.30						.10					.75	2.25					5.80
Morgantown	Monong'h'a		T.			.80	.20				T.	.30			.37		T.					.09		.03		.30	1.24	.92	.02			.12	3.80
Moundsville	Ohio		T.		T.	.12	.07				.01	.11		.03	.30	.02	T.	T.				T.		.11	.01	.47	1.33	1.22	T.			T.	3.80
New Cumberland	do.	.10	T		T.	T.	.01		T.	T.	T.	.30		.10	.20	.10	T.	T.			T.	T.		.30	.80	1.00	2.10	.90				T.	5.91
New Martinsville	do.	.06	T.		.16	.10		.06	T.		.18	.06		.03	.38	.02	.02					.10		.06		.63	1.14	.99					5.90
Nuttallburg	G. Kanawha		.20				.20				.20	T.		T.	.50		T.					.24				T.	.74	1.80					3.88
Osceola ‖	Monong'h'a	.10	.05	.05	.10	.15	.38	.16	.14	.01		.65	.07	.04	.70	.14	.10	.08			.02						.95	2.40	.15	.10			6.84
Parkersburg	Ohio	.02	.02		.18	T.	.07		.01		.21	.04		.36	T.	.03	T.					.11		.08	.05	.80	1.84	.24				.07	4.13
Parsons	Monong'h'a	T.	.12				.30		.10		.20	.10		.12	.50	.20	.10				.10	.12				.10	.45	1.00	.20			.18	3.89
Philippi	do.	.04	.09			.10	.27	.05	.04		.23	.43		.09	.42	.30	.07	.05			.04	.08				.08	.87	1.27	.06		.01	.03	4.62
Pickens	do.		.20			.10	.60		1.10		.97						.20	.20			T.	.50				.27	.94	.30	.10				5.48
Point Pleasant ‖	Ohio		.08			.26	T.	.04	T.			.34		.04	.46	.10		T.					.28			.20	1.80	1.18					4.78
Powellton	G. Kanawha		.10			.23	.03	.02	.03		.40	.04		.09	.50	.18	T.						.13			.12	.78	1.25					3.90
Princeton	do.					.10				.30	.50			1.25	.75							.30				.50	4.00	.10			.10		7.90
Robertsburg ‖	do.		.07			.20	T.		T.			.28			.60	.12						.18	.05				1.62	1.52					4.64
Rowlesburg ‖	Monong'h'a		.04	.02		.24	.12	.08	.02	.01		.50	.02	.02	.80	.10	.02	.04			.24		.10				.90	.90	.20	.01	T.		4.33
Ryan	G. Kanawha	T.	.10		.01	T.	.27		.02		.28	.01		.07	.62	.05	.09					.15				.36	1.40	1.29	T.				4.72
St. Marys ‖	Ohio		.02			.25	.13					.32			.35	.05							.13	T.	.19		1.63	1.00					4.07
Smithfield ‖	Fishing Cr'k	T.	.22	.17		.35	.30	.08				.26		.12	.55	.27	.05	.05					.22		.10	.05	.27	1.90	.22			.20	5.38
Spencer ‖	L. Kanawha		.04			.17	.10		T.	.18		.41			.36	.05		T.									1.50	*	1.30				4.11
Sutton	G. Kanawha	.02				.10		.02						.10	.10	.01				T.	.10					.55	.77	T.					1.77
Terra Alta	Monong'h'a																																
Union	G. Kanawha						T.				.56	.42		.20	.62	.63						T.					.80	2.65					5.89
Valley Fork	do.																																
Webster Springs	do.																																

TABLE 2.—*Daily precipitation for March, 1913. District No. 3*—Continued.

Stations.	Watershed.	Day of month. 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.
West Virginia—Con.																																	
Wellsburg	Ohio	.10	.05		.20	.05				T.	.05			T.		.13	.10					.10		.23	.41	.76	1.83	.78				T.	4.79
Weston ‖	Monong'h'a.	.04	.06	T.		.04	.24	.06		.06		.84		.08		.10	T.	.10		.07		.10					1.00	1.20	.20			.04	3.73
Wheeling ‖	Ohio	.02	.10	T.	T.	11	.15	.03		T.	T.	.06	T.	.03	.32	.06	.02	.02					T.		.18	.53	1.86	.50	T.			.02	4.01
Williamson ‖	Big Sandy		T.			.06						.48		.02	1.26	.10		T.				.26	.06				.78	1.70	.06				4.78
Ohio.																																	
Amesville	Ohio	.04	T.		.12	.09	.08		T.		.07	.10		T.	.45	.02	.04					.10		.12	.03	.90	1.75	.91				T.	4.82
Bangorville	Muskingum.	.20	.10		.15		.20			.05	.01	.12		.06	.17		.05					.38		.90	1.95	5.25	1.55	.91				.63	12.68
Bellefontaine	Great Miami	.47			.16		.11		.10		T.	.03		.07	T.		.16					.15		1.37	1.52	5.61	2.13	.53				.09	12.50
Bladensburg	Muskingum.	.10	T.		.21	T.	.10		T.	T.	T.			.04	.30		T.	T.				.17		.51	1.21	2.63	1.87	.70	T.			.25	8.09
Brilliant	Ohio	T.	T.	T.	.30		T.		T.					T.	.75		T.			T.				*	*	*	*	2.58				T.	3.63
Cadiz	do	T.	.06		.02		.30			T.	.01			.02	.28		.43	.02				T.	.01	.52	.92	1.22	1.60	1.41	T.			.08	6.90
Cambridge	Muskingum.	.08	T.		.19		.10				.02			.37			.16							.33	1.09	1.87	2.55	.88					7.64
Camp Denison	Ohio	.16	T.		.16	T.	.06	T.	.06		T.	.12		.05	.54		.02				.03	.47		.02	1.92	2.25	2.85	.40	T.			T.	9.11
Canal Dover	Muskingum.		.05		.38	.10	.30			.10	T.	.10			.30	T.	T.				T.	.20	.62	.30	2.70	1.35	.75					.18	7.43
Canton	do	.15	.02		.23		.15		.02	T.	.10	.12		.10	.20	T.	.05	.04				.01	T.	1.03	2.20	3.00	1.62	.60				.15	9.79
Cardington	Scioto	.40			T.		.20		.03		.03	.18		.02		T.						.43		1.02	2.55	3.00	1.40						9.26
Chillicothe ‖	do	.06				.22								.01	.62							.17			.02	1.20	*	4.60					6.90
Cincinnati	Ohio	.21			.11	.04	.01		.05		.02	.03		.65			.06			.01		.39			2.21	4.15	1.11					.04	9.09
Circleville	Scioto	.18			.32	T.				T.	.06	.09		.04	.43				T.			.64		.15	1.50	1.97	2.29	.37				.43	8.47
Clarington	Ohio	T.	.20		.10	.15	.15			T.	.10	.20		.10	.35	.10	.01	.01				.12		.12	.10	.50	.95	.22				.05	3.53
Columbus	Scioto	.11	T.		.14	.02	.03		.02	T.	.11	.02		.37			.02	T.			T.	.23		.53	2.14	2.89	1.40	.01	T.			.05	8.09
Coshocton ϕ ‖	Muskingum.	.25	.05						.08	.12				.02	.35				.01					.09	.20	2.70							
Dayton (1)	Great Miami	.12	T.		.05	.02	T.	.01		T.	.20	.01	.10	.39		T.	.03				.01	.31		.48	2.95	2.27	*	1.90	T.			.04	8.89
Dayton (2)	do	.21			.08	.01	.05		.06	T.	.10				.34		.05	T.			.02	.45		.51	2.91	3.28	1.48	.76				.05	10.36
Delaware	Scioto	.20			.43	.05	.05		T.			.13		.09	.25		T.				.40		.42	1.12	2.00	2.46	1.87	T.			.22	.10	9.79
Demos	Ohio	.05	.01		.10	.01	.15			.01	.09	.06		.03	.35	.13	.02					.03		.23	.27	1.00	1.85	.72	.07				5.18
Dennison ϕ	Muskingum.	.20	.30		.11	.05	.06	.15		T.	.02	.07			.31	.03	.02	.03				.02		.42	.76	.90						T.	
Frankfort	Scioto	.10	T.		.25	T.	T.				.05			.10	.60							.20		T.	1.20	1.67	2.20	1.42	.10				7.89
Gallipolis ‖	Ohio					.22	.10					.26			.50	.04						.23	.03			.14	1.80	1.22					4.54
Garrettsville	Mahoning	.23	.02		.12	.11	.12	.17		T.		.09		.02	.11	T.	.04	.02				.12	T.	1.98	1.03	4.61	.88	.87	.02			.24	10.80
Granville	Muskingum.	.05	T.		.15	T.	.15			T.	.25				.22		T.	T.				.20		.49	1.48	2.68	2.06	.50	T.			.11	8.29
Gratiot	do	.13	.05		.16	.02	.20		.02		.15			.07	.40		.15	.03				.08		.39	1.29	2.21	3.00	.57				.17	9.09
Green	Ohio					.31	T.					.45			.82		T.								.03	.95	3.20	.46					6.22
Green Hill	Muskingum.	.10	T.		.13	T.	.08		T.	T.	.01	.04		T.	.20	T.	.02	T.			T.	T.	T.	.59	1.56	1.54	1.27	.66	T.		T.	.16	6.86
Greenville	Great Miami	.20	T.		.04		.09		T.		.15			.45			T.	.04				.60		1.29	1.77	4.45	1.41	.41				.61	11.51
Hamilton ‖	do					.12	T.		.08	T.	.18				.75	.04	T.				.08	.43		.32	.70	2.70	*	*	3.80				9.20
Haydenville	Ohio	.34			.09	.02	1.08								.50		.04						.85			1.40	.70	1.63					6.65
Hillsboro	Scioto																																
Ironton	Ohio	.06	.05		.07	.07	.08				.13	.07		.31	.53	.01	.05					.43			.01	.40	2.67	.81					5.75
Kenton	Scioto	.20			.10							.15		T.							T.	.10		2.00	1.50	3.60	1.20	.35				.10	9.30
Killbuck	Muskingum.	.35	.05		.15	.10	.10				T.	T.					1.00					.20	1.00	.70	1.65	3.75	2.00	.70				.43	12.18
Kings Mills ‖	Little Miami	.21			T.	.15	.07		.05		T.	.16		.04	.53		.01				.03	.44	T.		.69	2.57	4.06	1.22	.01				10.24
Lancaster	Ohio	.05	.12		.25		.05		T.	T.	.12			.42	.42							.20		.38	2.48	1.74	2.48	.42				.15	9.28
McConnelsville	Muskingum.	.06	.02		.18		.05				.08			.18	.41		.10					.02		.21	.24	1.40	1.80	.68				.04	5.47
Marietta	Ohio	.03	.01		.09	.10	.06				.12	.05		.05		T.	.02					.03		.23	.06	.70	1.33	.35				.06	3.29
Marion	Scioto	.38	.08		.05		.10			T.					.23		.05					.48		1.38	1.97	4.39	1.87	1.00				.60	12.58
Milfordton	Muskingum.	.35			.32		.12		.03		T.					T.	.07	.10				.08		.58	1.20	2.25	1.62	.60	T.			T.	7.32
Milligan	do	.10			.29		.15				.11			T.			T.					.24		.34	1.35	1.78	2.04	.57				.42	7.39
Millport	Ohio	.15	.05		.14	T.	.01	T.	T.	.03		T.		T.	.34		.04	.01				.08		.75	.90	1.90	1.35	.70	T.			.08	6.53
Nellie	Muskingum.	.12			.16		.15				T.			.30			T.	.08				.18		.75	1.50	2.60	2.50						8.34
New Berlin	do	.06			.20		T.					.06		.04	.12		T.	T.						1.10	1.20	3.30	1.30	.70				.25	8.33
New Waterford	Ohio	.40	.10			.20	.10			.03	.02			T.	.29		.01					T.		.20	1.50	1.50	1.68	.72				.23	6.96
O. S. University	Scioto	.15	T.		.12	T.	.07		T.	T.	.04	.12		.02	.33		.01				T.	.23		.60	1.89	2.42	2.54	.41				.05	9.06
Oregonia ‖	Little Miami																																
Pataskala	Muskingum.	.09	.02		.24		.08		.02	.01	.06	.09		.02	.33		.06					.07		.50	1.66	2.37	2.12	.43	T.			.04	8.21
Peebles	Ohio	.05	.01		.24	.05	.02		.01		.04	.10		.08	.56		.03					.54		T.	.16	.97	2.48	.37	.03				5.74
Philo (1)	Muskingum.	.13	T.		.25	.05	.15		T.	T.	.06	.10		T.	.33	T.	.14				T.	.06		.36	1.36	1.46	2.29	.70				.03	7.47
Piqua ϕ ‖	Great Miami	.31				.15	.15	.10				.13			.37		.11	.12			.03	.46			1.80								
Plattsburg	do	.40	T.		.20	.10	.30				T.	.18		T.	.39		.10	T.				.36		.50	1.75	2.01	2.10	.53	T.			.10	9.02
Portsmouth ‖	Ohio	T.	.03			.18	T.					.21		.02	.63							.20				.04	2.90	1.12					5.33
Prospect ‖	Scioto																																
Sidney	Great Miami	.18			.08	T.	.21				.02	.17		.02	.32		.07	.01			.02	.38		1.28	1.84	3.96	1.32	.38				.40	10.66
Somerset	Muskingum.	T.	.03		.22	T.	.30		T.	T.	.10	T.		T.	.36		T.					.10		.29	1.10	1.60	2.50	.45					7.05
Springfield	Great Miami	.16			.07	T.	.17		T.		.06	.08		.10	.27		.04	T.				.35		.53	2.01	3.57	1.90	.67				.06	10.06
Summerfield	Ohio	.06	.01		.19	.12	.06				.09	.08		.04	.27	.09	.07				T.	.09	.21		.22	1.20	2.07	.58				.01	5.46
Syracuse	do	.09			.16	.08	.10				.21	.06		.08	.34										.11	.49	1.61	.48					3.81
Thurman	do	T.	T.		.20		T.				T.	.20	T.	.45			T.					.10			T.	.58	1.65	T.					3.18
Toboso	Muskingum.	T.				.28	.06				T.	.19			.37			.02				.08			.78	2.50	3.07	.88				.06	8.29
Urbana	Great Miami	.27			.06		.21				.03			.04	.32		.10	.02				.40		.62	2.13	3.12	2.25	.54				.42	10.53
Warren	Mahoning	.28			.24		.22			T.	.03	.02			.16	T.	.03	.04			T.	T.	T.	1.70	1.80	2.92	1.36	.49	.08			.46	9.82
Waverly	Scioto	.05	T.		.14	.04	T.		.03		T.	.07		.12	.49	T.	.02					.41		.01	.26	1.29	2.57	.38				.03	5.91
Waynesville	Little Miami	.15			.10	T.	T.		.02	T.	.05	.07			.50		.03					.40		.35	2.15	2.56	2.30	.33					9.01
Wooster	Muskingum.	.20			.35	.07	.20			T.	T.	.10					.05	.05				.40		1.16	1.94	4.84	1.40	.81				.27	11.84
Youngstown ϕ ‖	Mahoning	.08	.04		T.	.09	.08		T.			.04		T.	.12	.08	T.	T.				T.			1.02	2.96	.28						
Zanesville ϕ ‖	Muskingum.																T.	T.				.02	.04		.09	2.17							
Indiana.																																	
Anderson	W. F., White	.15	.04		.08			T.	T.		.04	.15		.15	.26			T.				.45		2.34	1.50	2.51	.50	.14				.19	8.50
Attica ‖	Wabash	.22	.03		.27	.04	.20		.10			.08			.28		T.	.03			.02	.80	T.	.37	2.80	2.28		.63				.09	8.24
Bloomington ‖	W. F., White	.31	.02			.09	.23		.03			.36		.01	1.06	T.	.05	.03			.14	1.50		.11	.79	6.56	1.12	.62	T.				13.03
Bluffton ‖	Wabash	.25	.02		.22	.10	.23		.02		T.				.60		.03	.02				.53			3.80	3.00	.10	.60	T.			.07	9.59
Butlerville	E. F., White	.20			.12	.11	.07	.12			.09	.11		.25	.77		.06				.14	.88		.14	2.57	4.43	1.56	.57				.17	12.36
Cambridge City ‖	Whitewater.	.10			.04		.12		.02			.33		.05	.54		.02					1.20			1.70	5.70	1.18	.80					11.80
Columbus ‖	E. F., White	.25	T.				T.		.10			.25		.02	.81		T.				.04	.58		.07	.72	7.00	1.60	.53				.04	12.01
Connersville	Whitewater.	.20	T.		T.		T.		.18						.80							.98		.68	1.85	5.67	1.46	.32					12.14
Crawfordsville	Wabash				.40	T.	.20	T.			T.			.30							.10	.90		2.80	2.30	2.20	.70						9.20
Delphi ‖	do	.20	T.		.36		.23		T.			T.			.21	T.	T.	.11			.02	.73	.07	.03	3.14	2.00	.03	.76				.05	7.94
Eminence	W. F., White	.40					.35	.15						.95	T.	T.						.25		1.60	1.95	1.45	.25						7.35
Evansville	Ohio	.12			.08	.14	T.	T.			.40		T.	1.03		T.				T.	.65	.71		.29	.96	4.01	.30	.02					8.71
Farmersburg	Wabash	.16			T.	.04	T.				T.	.28		.57		T.					.07	.98		.78	1.92	2.23	.21	T.					7.24
Farmland ‖	W. F., White	.25			.02	.08	.10		.01		T.	.17		T.	.40		.03	T.			.02	.70			2.97	4.42	.78	.77				.40	11.13
Forest Reserve	Ohio	.20	T.		.09		.10	.01			.04	.12		.57	.47		.01				.10	1.17		.01	2.10	3.30	2.30	.21					10.80
French Lick ‖	E. F., White	.24	.03		.01	.15	.17	.02	.03		T.	.42		.01	1.01		.02	.01			.24	.92		T.	.72	4.85	.79	.16	.01			T.	9.81
Greenfield	do	.40			T.		.10	T.			T.	.23		T.	.48	T.	T.	T.			T.	.37		1.25	2.56	2.32	1.00	.15				T.	8.86
Greensburg	do	.25												.65	.10		.01					.50		.45	3.15	4.01	.84	T.				T.	9.96
Hickory Hill	W. F., White	.26			.09		.14	.04			.05	.23		1.33							.07	.68		.42	1.63	4.39	1.04	.05				.05	10.47
Huntingburg	Wabash	.26			.20						.31		1.93								1.27			2.27	4.50	.52						.30	11.86
Huntington	do	.20	.05		.30	T.	.20	T.		T.	T.			T.	.23	T.	.05	.05			T.	.85		1.80	1.05	1.95	.30	.30				.30	7.68
Indianapolis	W. F., White	.04		.01	.05	.09	.02	.05	.01	T.	.25	.01	T.	.73		.01	.01			T.		.46		1.27	2.76	1.56	.34	.08			.01	T.	7.76
Jeffersonville	Ohio	.11			.07	.01	.04	T.			.05	.08		.87	T.		.03			T.	T.	.59		T.	.17	4.24	1.33	.03			T.		7.62
Judyville	Wabash	.04	.06		.26	.05		.06						.20	.11	T.	T.	.03			T.	.71		1.97	1.13	1.51	.27	.14				.12	6.66
Kokomo	do	.24			.22	.10	.07								.26			.05			T.	.49		2.18	1.57	1.97		.38				.05	7.59
Lafayette ‖	do	.18	T.		.27	T.	.14	T.			.05	T.		T.	.23	T.	T.	T.		T.	.07	.82		2.02	1.22	1.35	.47	.15				.08	7.05

TABLE 2.—*Daily precipitation for March, 1913. District No. 8*—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	
Indiana—Contd.																																	
Logansport‖	do																																
Madison	Ohio	.25	.02		.16	.02	.16				.01	.09		.37	.64		.05				.03	.82			2.49	1.78	2.65	.63					10.17
Marengo	do																																
Marion‖	Wabash	.30	T.		.31		.07	T.			.07				.65	T.	T.					.58		2.53	2.60	2.19	.40	.36				.25	10.31
Mauzy	E. F., White	.30			.04		.13	T.	.12	T.	.02	.20		.20	.42	T.	.10					.89		.56	2.25	5.59	.98	.27				.01	12.08
Monticello‖	Wabash	.14	T.		.24		.12		T.						.26	T.	T.	T.	T.		.05	.93			2.92	1.94	.02	.70				.31	7.63
Moores Hill	Ohio	.12	.02		.03	.01	.10		.10		.02	.08		.02	.86		.12				.58			.33	1.63	2.78	2.10	.08				.01	8.99
Mount Vernon‖	do	.35	T.		T.	.10	.08				T.	.54			.82		T.				.38	.88			.21	1.65	2.55	.37	.03				7.96
Nashville	E. F., White	.32			T.	T.	.15	.01		T.	.04	.21	T.	.33	.69	T.	.05			T.	.12	.80		.37	2.02	6.01	.52	.05					11.69
Paoli	do	.20			.09		.12	T.			.11	.18		.60	.40		.01				.17	.83			2.78	3.46	1.20	.08					10.23
Princeton	Wabash				.11									1.36							.48	1.01		.05	2.00	4.37	1.05	.06					10.49
Richmond	Whitewater	.04			.04	.10	T.	T.	.03	T.	.19	.04		.63		T.	.02			T.	T.	.63		.88	5.30	4.17	.76	.04				.02	12.89
Rochester	Wabash	.10				.02		T.		.45					.29	T.	.02	T.			.01	.48		1.85	1.05	1.56	.50	.20				T.	6.53
Rockville	do	.23	T.		.03	.07	.06	.05	T.	T.	.02	.04		.40		T.	T.	T.		T.	.03	.40		1.85	2.87	1.64	.33	.33					8.35
Rome	Ohio	.17			.15			.13			.03		.07	.95	.01		.03				.14	.95			.10	3.13	2.46	.09	.07				8.48
Salamonia	Wabash	.42	.11		.12	T.	.22	.03	T.		.13	.16		.04	.76		.07	T.			T.	.98		3.55	1.16	3.04	1.08	.21				.12	12.20
Salem	Ohio	.30	.05		.30		.20	.05			.05	.10		.45	.30	T.	.05					1.00		.10	2.00	3.10	1.10	.20					9.35
Scottsburg	E. F., White	.10	T.				T.	T.						.94							.15	1.08		.20	2.69	3.41	1.31	.16					10.04
Seymour	do	.20	T.		.09	.04	T.	.05			.05	T.	T.	.98		T.	.02			T.	.09	1.24		.08	2.05	5.43	.28	.21				.01	10.82
Shelbyville	do	.32	.04		.06	.01	.06	.04	.07	T.		.24		.25	.45	T.	.03	.03			.08	.50		.41	2.06	3.57	.90	.17	.03			.02	9.34
Shoals‖	do	.45	T.			.02	.29	T.				.36			1.47		T.			.30		1.19		T.	6.66	1.80	.45	.15					13.14
Terre Haute	Wabash	.01			T.	.13	T.	.03	T.	T.	.33		T.	.52		.01	.01			.03	.15	.84		1.05	2.45	.77	.19	.10			T.		6.62
Veedersburg	do	.28	.05		.27	.06	T.	.05			.10			.11	.15	T.	.01	.01		T.	.03	.85		2.00	2.00	1.61	.47	.10				.13	8.28
Vevay	Ohio	.10			.20		.10	.05			.20			1.10			.10				T.	.25		T.	1.80	3.65	2.00						9.55
Vincennes‖	Wabash	.45	T.		T.	T.	.40					.40		T.	1.10		T.				.20	1.00	T.	.20	1.10	6.20	1.30	.60					12.95
Washington	W. F., White	.20			.06		.12				.09	.23		1.17		T.					.36	.85		.15	2.08	5.83	.85						11.99
Whitestown‖	do	.24	T.		.04	.05	.15		.02		T.	.20			.51	T.	.01	.02			T.	.62		.12	2.98	3.09	.11	.75	T.			.02	8.93
Winona Lake	Wabash	.20	.02		.31	.08	.11		.02						.28		T.	T.			.02	.56		1.73	1.54	1.18	.31					.55	6.91
Worthington	W. F., White	.27			T.	T.	.17	T.			T.	.30		1.00	.01	T.	T.			T.	.07	.72		.21	2.26	4.25	.69	.18					10.13
Illinois.																																	
Albion	Wabash	.15			T.	.06					.25			.80						.08	.16	1.03		T.	2.10	6.23	.71	.07					11.64
Casey	do	.03	.07	T.	T.	.12					.05	.41	T.	.45			.01					1.02		1.17	1.58	1.31	.55	.18					6.95
Charleston	do	.01		.01	T.	T.		T.			.39			.32		T.					.03	.60		2.76	1.07	1.48	.54						7.21
Danville	do	.20	.01	T.	.26	.13	.05	.07	.05		T.	T.		.26	.02	T.	.03	.02		T.	T.	.74		2.20	1.35	1.40	.54	.23				.16	7.72
Equality	Ohio	.20	T.		.04	T.	T.			T.	.48			1.00		T.	T.			.05	.47	1.27		T.	.27	3.02	.97	T.					7.77
Fairfield	Wabash	.13	T.		.10	T.	T.				.06	.22		.65			T.			T.		1.72			2.22	6.13	.55	.65					12.43
Flora	do	.12	T.		T.	.06	.04	T.			T.	.21		.53		T.	T.					.88		T.	2.38	3.30	.40	.11					8.03
Golconda	Ohio	.46			T.	T.					.49			1.16						.10	.52	1.25			.26	5.31	.81	.41					10.77
Hoopeston	Wabash	.18	.01		.20	.11	.02	.10	.01					.12	.07		.02	.02			.02	.75		2.10	1.32	1.27	.30	.20				.14	6.96
McLeansboro	Ohio	.20	.02		.03	.03	.11				.11	.11		.82			T.				.10	1.42			1.60	4.35	.85	.16					9.91
Metropolis	do	.26			.13						.05			1.75			T.				.85	.70			.35	3.74	1.25	.05					9.13
Montrose	Wabash	.11	T.	T.	.01	.15	T.	T.			.15	.27		.24	T.	T.	.02			T.		.72		.69	2.03	1.21	.60	.10					6.30
Mount Carmel ‖	do	.30	.02		.04	.04	.14		T.		T.	.12			1.10	T.	.04				.34	.82			.86	6.20	1.50	.60					12.13
New Burnside	Ohio	.28			.06		.09				.25	.05		.79			T.				.28	1.44		T.	.03	2.50	1.10	.08					6.95
Newton	Wabash	.11			T.	.09	T.				.03	.32		.42		T.						.68		.42	2.06	1.82	.32	.03					6.30
Olney ‖	do	.42			T.	.12		T.				.15		.52			T.				.10	1.55	T.		.78	4.81	.75	.37					9.57
Palestine	do	.25			.03	.08	.12	T.			.04	.29		.63		T.	T.	.01		T.	.02	1.01		.16	1.34	3.67	.40						8.05
Paris ‖	do	.20	T.		T.		T.	T.	T.			T.			.55		T.				T.	.90		.25	2.34	2.45	.08	.32					7.09
Philo	do	.04		.17	.06	.07		T.			T.		T.	.28	T.	T.	T.					.52		1.96	1.68	1.03	.24	.04					6.09
Rileyville	Ohio	.28	T.		.60	.16	.20				.07	.04		.69			T.			T.	.45	.94			.78	3.14	.79	.03					8.17
Shawneetown ‖	do																																
Tuscola	Wabash	.14	T.	T.	.14	.10		T.			T.			.23		T.	T.	T.				.54		2.05	1.22	1.23	.42	.08				T.	6.15
Urbana	do	.10		.05	.07	.06		T.	.03					.15		T.	T.	T.			T.	.68		1.69	1.51	1.31	.28	.03				.03	5.99
Kentucky.																																	
Alpha	Cumberland	T.			T.						.10			2.00			T.					.70					6.90	T.					9.70
Anchorage	Ohio				.06		.02	T.			.06		.07	.76			T.					.68			.20	3.50	1.72	.08					7.15
Bardstown ‖	Salt					.10	.03					.15		T.	.95		.10				.05	.90				.60	2.60	.70					6.18
Beattyville ‖	Kentucky	.12	.18	.04		.12	.06					.38		T.	1.46		.08	T.				.38					3.04	3.28	.56				9.70
Beaver Dam ‖	Green	T.					.44	.25		T.			.05		1.40		T.					.85					3.00	.75					6.74
Berea	Kentucky	.07	T.		.05	.06	.02			.20				.25	1.15		.11									1.20	5.25	.60					8.96
Blandville	Mississippi	.17			T.	.10					.26			1.23		T.				.02	.35	1.28				4.55	.59	.04					8.59
Bowling Green ‖	Green										T.	.15			.50							1.40			T.	1.10	4.10	1.00	.02				8.27
Burnside ‖	Cumberland	T.				T.	T.	T.			T.	.40		T.	1.25		T.	T.			T.	.30					2.25	3.25					7.45
Calhoun	Green	.19	T.		.12		.13	T.	T.		.03	T.		1.43		T.	T.			T.	.33	1.09			T.	1.40	2.86	.13					7.71
Catlettsburg ‖	Big Sandy	.04	.10			.16	T.					.30			.84	.10	T.	T.				.40					2.36	.92					5.22
Earlington ‖	Green	T.				T.	.10			.08					1.35	T.					.12	.35				T.	2.40	2.42					6.82
Edmonton	do	.06			.05		.02				.13			.55	.96		.01					1.17					4.30	.09					7.34
Eubank ‖	Cumberland					.05	T.				.03	.23			1.34		T.	T.				.45					3.00	1.55					6.65
Falmouth ‖	Licking	.04		T.		.13	T.		T.			.14			.71		.05	T.				.51				.30	3.23	.96	T.				6.07
Farmers	do		T.		.01	.10	T.				.01	.01		.15	.70							.04				.35	3.20	.80					5.37
Frankfort ‖	Kentucky	.01	.01			.05	.03	T.				.06	T.	T.	.88		.03	T.			T.	.85	T.			.11	3.35	1.06	.01				6.45
Franklin	Green				T.			T.			.26			1.02			T.				T.	2.10			.20		4.85	T.					8.43
Greensburg ‖	do	.05	T.		.01	.03	T.				.05	.31	.02	.04	1.36		T.				.02	1.00				.07	4.00	1.15					8.11
High Bridge ‖	Kentucky	.02				.06						.18		.03	1.11		T.					.52				.05	3.02	1.24					6.23
Hopkinsville	Cumberland				T.						.15			1.35				T.			.20	1.32			.20	.32	2.53	.10					6.17
Irvington	Ohio				.15		.13	T.			T.			.96			.05					.92			.05	3.75	1.80	.20					8.01
Leitchfield	Green		T.				T.				T.	T.		.95			.02				T.	.88			.45	2.97	.89	T.					6.16
Lexington	Kentucky	.03	T.		.07	.03	T.				.17	.03		.88			.03				.01	.32			.21	1.79	2.46	.01					6.04
Loretto	Salt																																
Louisa ‖	Big Sandy	.02				.12	.07					.40			1.10	.13						.30					3.70	1.60					7.44
Louisville (1)	Ohio	.03	T.		.01	.03	T.	.01			.03	.05		.97		T.	T.			T.	.03	.57		T.	.15	4.95	.87	T.					7.70
Louisville (2)	do	.10	T.		.07		.06	T.			.03	.08			1.07		T.				.01	.68			.32	2.78	2.17	.18					7.55
Marion	do				T.						T.	T.		1.31						T.	.49	1.33			T.	2.28	1.43	T.					6.84
Maysville ‖	do	.05	.01			.13	T.	T.	.01			.03		.04	.68		.03	T.			T.	.39	.04		T.	.16	2.03	1.29	.02				4.91
Middlesboro	Cumberland	.02									.72	.77	.02	.55	2.13							.66					1.75	1.60			.12		8.34
Mount Sterling ‖	Licking	.06	.03									.18		.08	1.65		.10					.47			T.	T.	2.59	1.35	T.				6.51
Owensboro ‖	Ohio	.25				.10	.16					.15			1.40						.38	.70				.96	3.82	.40					8.32
Paducah ‖	do	.32					.04				.14	.10			1.23						.48	1.26				1.20	3.64	.40					8.81
Pikeville ‖	Big Sandy						T.	T.			T.	.40		T.	.92	.20	T.	T.				.20	T.				.80	1.40	T.				3.92
Richmond ‖	Kentucky	.04	.02			.10	T.					.15	.01	.08	1.32		.05	T.			T.	.60					3.75	1.29	T.				7.41
St. John ‖	Salt	.10	T.				T.				.15	.10			.81		.16				.20	.95			.50	.25	3.20	1.20				.04	7.66
Scott	Licking	.16	.06		.11	.02	T.		.11	T.	.02	.08		.05	.68		.03				T.	.44		T.	2.86	1.50	2.38	.23	T.				8.73
Shelby City	Kentucky	.03			.10					.15	.05		.40	.96		T.					.65					.61	4.16	.39					7.50
Shelbyville ‖	Salt	T.	T.				T.						.10	T.	.95			.08				.86			.35		*	5.65					7.99
Taylorsville	do	.05	.02		.07	T.	.01	T.			.12	.06		.70	.38		.03				.02	.88			.39	.56	3.48	.13					6.90
Williamsburg ‖	Cumberland	T.	T.			.05	T.				.05	.40					1.65			T.							2.02	2.05					6.22
Williamstown ‖	Licking	.05	T.			.09	.10				.08				.62		.04	T.				.60			T.	.40	3.97	.82	.03				6.80
Tennessee.																																	
Ashwood	Tennessee				T.						.17			1.27	.30							.65				T.	2.50						4.89
Benton ‖	do				.05						1.12			1.45	2.38					T.	.70	.80				T.	.53	.75			.33		8.11
Bird's Bridge	do										.10	.80			2.36	.82						.39	.22					2.60			.04	.03	7.26
Bluff City ‖	do		T.			.06					.31	.33			1.93	1.13		T.				.36	.17				.04	2.37	.04			.03	6.77

TABLE 2.—*Daily precipitation for March, 1913. District No. 3*—Continued.

Stations.	Watershed.	Day of month. 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.
Tennessee—Contd.																																	
Byrdstown	Cumberland				.06		T.				.27			.92			T.					.06						3.70					5.01
Carthage ‖	do					.02	.05				.08	.14		.01	1.69							1.00				.01	4.50	1.90					9.40
Cedar Hill	do	.40			.20		T.				.04			1.10						T.	.15	1.79			.30	.20	4.72	.15					9.05
Celina ‖	do										T.	.27			1.29		T.					.85					4.20	2.16					8.77
Charleston ‖	Tennessee										1.35	.23		.13	2.00	T.					.03	1.20					.45	2.10			.40		7.89
Chattanooga	do				.02					.62	.73	.01	.16	2.12		.01					.36	.94				.10	1.58	.03			.06		6.74
Clarksville	Cumberland				T.		.02				.10			.61			T.			T.	.01	1.70			.60	.87	4.46	.02					8.39
Clinton ‖	Tennessee	T.									.50	.50		T.	2.00						T.	.75	T.				.40	1.70			.12	T.	5.97
Crossville	do				.03	T.					1.00	.06		1.05	1.80	T	T.			T.	.07	1.25	.05			*	2.09	1.60	.20		.20		9.40
Dandridge ‖	do										.70			.10	2.10							.10				.14	1.40				.10		4.64
Decatur	do										1.21			2.10	.72	.02	T.			T.	.18	.99				.05	.99	2.00			.20		8.46
Dickson	Cumberland										.30			1.40								1.50			.53	.20	4.15	.10					8.18
Dover	do				T.						T.			1.73						T.	.20	1.24			.24	.91	2.67	T.					6.99
Dunlap	Tennessee				.12						.85			1.54	.95		T.				.10	.97			1.00	.50	1.40			.09			7.52
Elizabethton ‖	do		T.								.40	.45			1.80	.90						.40	.60				1.00	1.60					7.15
Erasmus	Cumberland				.03		T.			T.	1.27		T.	1.18	1.45		T.				.12	1.10			T.	.33	2.07	.92			.15		8.62
Florence	do				T.		.13				.12		T.	2.65	.05						T.	1.68		T.	T.	T.	3.20	.10					7.93
Franklin	do										.04			1.20	.07						T.	.81			T.	1.04	5.51	.11					8.78
Hall's Hill ‖	do					.05					T.	.19			1.68		T.					.68				.03	1.87	2.25	T.				6.75
Hohenwald	Tennessee										.21			.98	.16					.07	.96				.21	.17	4.82	.09					7.67
Iron City	do									T.	.17		T.	2.90	.17							1.02			T.	T.	3.47						7.73
Jefferson City	do			.03							.95	.11		.76	1.21							.62					.60	1.24	T.		.15		5.67
Johnson City ‖	do										.48	.53		.07	2.15	1.35	T.	T.				.43	.19				T.	1.85		T.	T.	T.	7.05
Johnsonville	do	.01			.02						.11			1.11						T.	T.	1.75			.60	.36	4.00	.64					8.60
Kingston ‖	do										.66	.32		.06	1.90	T.						.64	T.				.22	2.86			.09	T.	6.75
Knoxville	do	.01			T.		T.			.19	.97		.06	1.63	.18	.01	T.			T.	.17	.60				.08	2.18	.16			.19		6.43
Lebanon	Cumberland		T.		T.		T.				.18			2.08				T.			T.	1.78			T.	.20	4.80	.15					9.19
Lewisburg	Tennessee				.01					.01	.31	.01	T.	3.58	.02		T				T.	1.46			T.	.01	3.98	.05					9.44
Liberty	Cumberland										.19	.21			1.60							.55					1.40	2.25					6.20
Loudon ‖	Tennessee										.70	.30		.08	2.45						T.	.86					.32	2.40			.29		7.40
Lynnville	do										.44		T	3.55								1.20			T.	T.	3.63	T.					8.82
McGhee	do						T.				.90	.54		.14	1.95		T.				T.	.97	T.				.30	1.27			.23	T.	6.30
McMinnville	Cumberland				.07						.83	.08		.38	1.35		T.				.10	1.20					1.25	1.85					7.11
Maryville	Tennessee										1.89										.81	.94		.54					1.62				5.80
Mountain City	do										.58	.28		.40	1.46	1.00					1.17	.35					.63	1.23					7.10
Nashville	Cumberland	.06			.02	.05	.01			T.	.02			.62	.01		T.			T.	.08	.70			T.	1.11	1.85	.01					4.54
Newport ‖	Tennessee						T.				.54	.42	.05	.08	1.50	.47	T.					.24	.48				T.	1.75	.30		.08		5.91
New River ‖	Cumberland					T.	T.				T.	.73			2.51						T.	.83					1.42	2.54			T.		8.03
Palmetto	Tennessee				T.					T.	.45			3.00			T.				T.	1.10			T.	T.	4.35						8.90
Perryville	do										.15			.62						.11	.43	1.47			.84	2.15	3.14						8.91
Pinewood	do																																
Rogersville ‖	do	T.				T.					.30	.45		.03	1.60	.13	T.	T.				.23	.17				.33	2.13	.01		.07	.10	5.55
Rugby	Cumberland				T.	.12	.05					.55			2.15		T.				T.	1.03					1.50	1.50			.05		6.95
Savannah	Tennessee	.04			.03						.19			.71						T.	.05	1.92			.48	.63	5.95	.04					10.04
Sevierville	do										93	.25		1.22	1.06		T.				.56	.10					.39	1.25			.14		5.90
Sewanee	do																																
Sparta	Cumberland				T.						.72			.78	1.42		T.				.10						2.25	T.					5.27
Springville	Tennessee	.05			.04						.20		T.	1.31						T.	1.43				.11	.24	2.68	.02	.01				6.09
Tazewell ‖	do	T.				T.	T.				.17	.45		T.	2.30	T.	T.	T.			T.	.66	T.				.48	3.05	T.		T.	.07	7.18
Tullahoma	do				T.	.17	.01			T.	.79	.09		.96	1.33		T.				.21	1.04				T.	2.51	.61					7.12
Walling ‖	Cumberland					.04					.40	.35			2.00		T.				.11	.74					1.17	2.00	.02				6.83
Waynesboro	Tennessee				T.		T.			T.	.29		T.	1.36	.04		T.			T.	.04	.99			36	1.09	4.05	.06					8.28
Wildersville	do										T.			1.90								1.50			.80	.29	2.75	.05					7.29
Worsham ‖	Cumberland	.10					.07			.06			1.04				T.			.01		1.17			.06	.25	3.96	.52					7.24
Yukon	Tennessee									.03	.73	T.	T.	2.10	.40						.10	1.16			T.	T.	2.35	.25					7.12
Alabama.																																	
Bridgeport ‖	Tennessee					.08					.81	.29		.31	2.17						.16	1.18						1.86					6.86
Decatur ‖	do										.27	.32		.25	2.31						.15	1.07				.03	.48	2.11	T.				6.99
Florence ‖	do										.18	.12		.45	2.00						.04	1.10					.25	1.44					5.58
Guntersville ‖ ‖	do					.04					.48	.20		.60	2.18	T.					.04	1.26				T.	.10	.72					5.62
Madison	do										.30				2.15													2.00					4.45
Riverton ‖	do										.21	.18		.18	2.32					T.	.73				T.	.04	.83	1.15					5.64
Scottsboro ‖	do									.10	1.00	.05	.02	1.42	.26		T.				.32	.60			T.		.16	.43					4.36
Tuscumbia ‖	do										.10	.11		.38	1.76						.02	1.25					.34	1.17					5.13
Georgia.																																	
Diamond	Tennessee				.01	.09					1.25	.40		.62	3.90	2.12	T.			T.	.30	1.08			.05	.02	1.90	1.38			.40		13.52
North Carolina.																																	
Altapass	Tennessee						T.				.63			.26	1.97	1.11	T.				.21	.90			T.		.95	2.00					8.03
Andrews	do				.07	.03					1.38	.06		.41	2.89	.67					.19	.83					1.84	.85			.47		9.69
Asheville	do	T.			T.		T.			.08	.44		T.	.87	1.25	.86	T.			.01	.17	.51			.01	.09	.69	.40			.04		5.42
Banners Elk	do				T.						1.00			.25	2.62	1.10	.10			T.	.10	.67			T.	.20	1.00	2.65			.10		9.79
Blantyre	do	.10									1.10			60	3.55	1.38				.10	.10	.50			.20	.70	1.30			.20			9.83
Blowing Rock	G. Kanawha										.93	.04		.40	3.22	1.18					.79				.09						.09		6.74
Bryson City ‖	Tennessee					.08					.80	.20		.41	2.04	.99						.90	.12				.08	2.75	.03		.13	.07	8.60
Cullowhee	do	T.			T.						1.03	.02		.20	1.88	.94	T.			T.	.03	.73			T.	.07	1.25	2.20			.27		8.62
Hendersonville	do	.08									.99	.02		.66	3.65	1.22				.09	.10	.66			.22	.63	.31	1.51					10.14
Highlands	do	.09			.05						1.95	.20		1.40	5.38	2.26					.10	1.60			.55	.97	1.96	3.00			.55		20.06
Hot Springs	do										.45	.49		.17	1.85	.05	T.				.07	.87					1.38	1.07			.03		6.43
Jefferson	G. Kanawha		T.		T.		T.				.80	.07		.41	2.00	.91	T.				.07	.56			T.	.22	1.37	2.00	T.		.05		8.46
Marshall	Tennessee				T.						.50	.16		.28	1.36	.81					.42	.67					1.93	.99			.15		7.27
Murphy ‖	do					.07					1.18	.15		T.	2.00	.62					T.	.76	.13			T.	.02	1.99			.21	.13	7.26
Rock House	Savannah	.13			T.					.17	1.80		.03	2.50	3.67	1.87				.04	.16	1.29			.42	.55	1.07	1.85			.63		16.18
Transon	G. Kanawha										.65			.24	3.10	1.20					.12	.80			.10	.60	1.60	2.24					10.65
Waynesville ‖	Tennessee					.06					.73	.20			2.50	1.20						1.20				.10	.25	3.80			.18	.05	10.27
Virginia.																																	
Blacksburg	Kanawha										.63	.03		.12	1.70	.70					.09	.22					1.19	1.75			.08		6.51
Burkes Garden	Tennessee					T.	T.				.50			.41	.71	.91	T.				T.	.30					1.10	2.00	T.		.26		6.19
Elk Knob	do					T.	T.				.75	.06		.42	1.49	.10				.03	.36					.68	2.10			.08		6.07
Ivanho ‖	Kanawha			T.		T.					.34	.26	T.	T.	1.68	.86	.02				.05	T.	.18			T.	.36	3.10	.06			.18	7.09
Max Meadows	do	T.					T.				*	.58		.08	1.42	.60		T.		.10	T.	.25					.98	2.25			.13		6.39
Mendota ‖	Tennessee										.10	.65			1.32	.58							.50				.40	2.50				.15	6.20
Mountain Lake	Kanawha										.60			.20	1.30	1.00					.01	.30					1.10	2.47				.10	7.08
Radford ‖	do										T.	.72		.16	1.50	.60							.30					3.01	T.			T.	6.29
Speers Ferry ‖	Tennessee						T.				.20	.48			1.50	.16		T.				.30	.20				.26	2.00	T.			.10	5.20
Wytheville	Kanawha		T.		.01		T.				.59	.08		.52	.72	.84	T.			.03		.25					1.70	.88			T.		5.62

* 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.
ϕ Incomplete record due to flood, etc.

TABLE 3.—*Maximum and minimum temperatures at selected stations for March, 1913. District No. 3, Ohio Valley.*

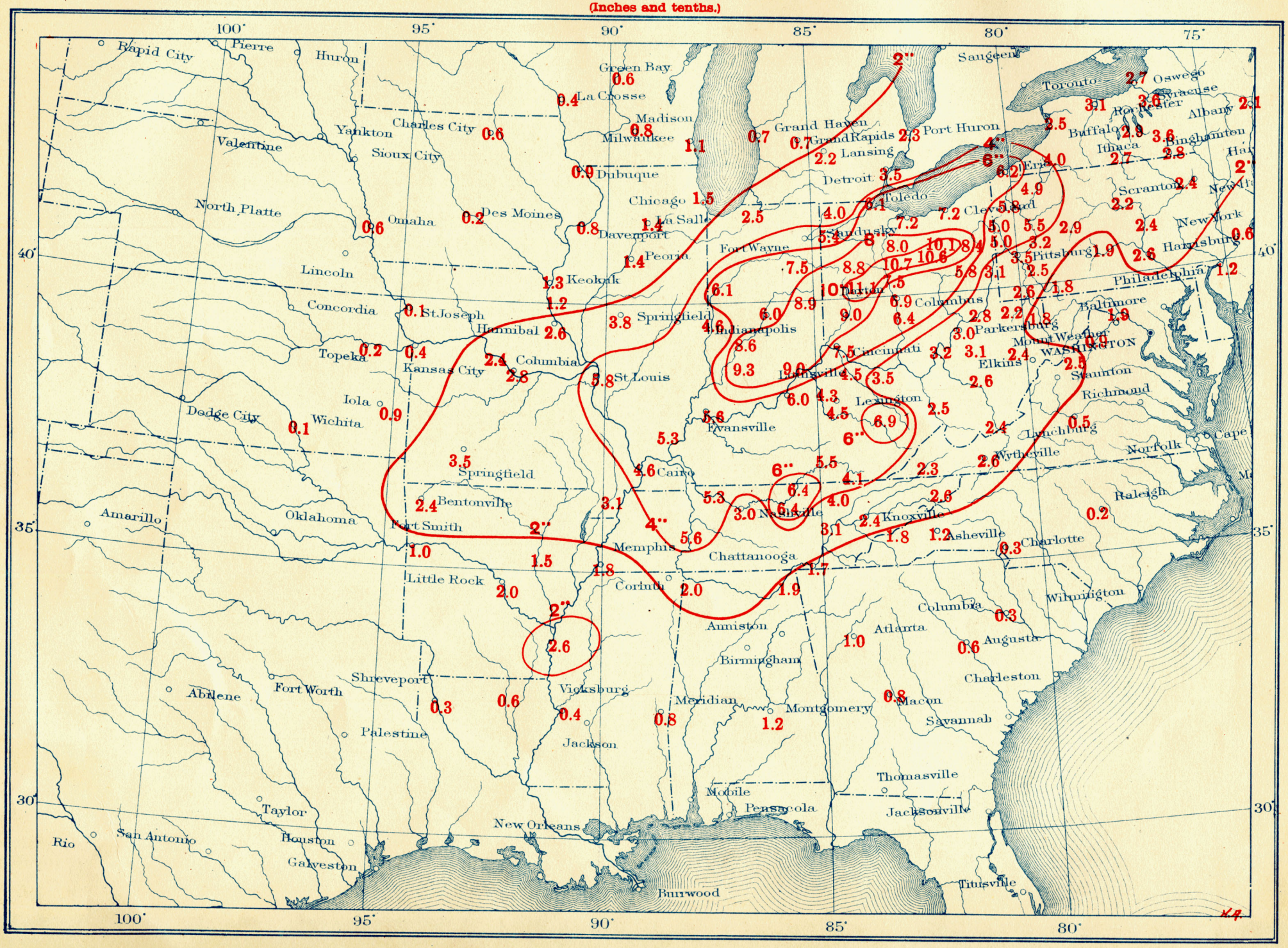
Date.	Pennsylvania.				West Virginia.																Ohio.							
	Greenville.		Pittsburgh.		Charleston.		Elkhorn.		Elkins.		Glenville.		Huntington.§§		Morgantown.		Parkersburg.		Wheeling.§§		Canton.§§		Cincinnati.		Columbus.		Dayton.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	40	25	43	29	47	39	59	41	54	32	48	34	41	37	.....	.....	40	33	39	31	36	24	38	29	34	28	33	26
2....	27	11	31	14	40	22	46	24	32	16	47	20	29	20	47	17	33	18	39	18	24	9	29	11	28	10	28	6
3....	41	10	46	18	60	20	53	22	50	19	58	19	55	20	.....	.....	51	22	51	17	44	13	52	22	46	20	49	19
4....	38	31	46	29	58	39	53	37	51	36	55	34	52	20	50	19	47	34	45	19	39	25	44	28	41	24	42	24
5....	35	17	31	24	51	30	59	35	38	27	47	27	40	30	46	20	37	26	34	25	32	14	43	27	35	20	38	20
6....	31	8	33	9	40	24	45	25	34	12	37	20	29	27	36	16	37	16	27	20	30	9	33	17	34	9	31	11
7....	20	0	20	6	33	13	33	17	20	5	30	3	34	15	21	6	27	9	28	6	22	2	30	14	26	6	27	11
8....	37	−1	27	19	60	28	55	28	48	7	56	16	59	16	44	12	54	22	54	12	42	16	60	28	51	24	55	26
9....	53	16	60	39	60	34	63	35	61	42	75	43	68	32	62	42	66	47	65	26	55	34	66	45	59	36	59	36
10....	49	26	53	36	67	44	60	42	49	38	61	41	58	45	60	48	54	41	52	34	45	30	50	40	49	33	47	32
11....	47	26	49	36	54	44	53	44	48	33	65	40	52	45	49	39	53	38	50	36	48	30	51	40	48	32	49	36
12....	59	22	62	36	67	38	63	38	64	28	70	31	65	34	64	20	65	30	65	28	60	27	64	34	62	36	61	33
13....	65	44	64	51	88	54	62	52	60	48	66	50	61	34	66	48	64	52	65	32	65	45	62	52	64	50	65	50
14....	75	43	74	53	89	54	74	56	73	57	80	55	78	55	75	54	77	58	79	50	74	53	77	56	75	54	73	55
15....	60	39	67	39	79	56	69	54	70	43	76	49	64	51	75	55	68	40	61	49	62	35	58	31	57	32	55	30
16....	39	23	39	25	65	31	60	30	43	23	58	20	34	32	57	27	40	27	35	32	35	22	34	25	32	22	31	22
17....	36	17	35	21	47	29	45	25	38	23	70	32	48	29	39	24	42	23	47	22	37	16	48	21	39	18	40	16
18....	58	28	62	32	67	30	60	35	64	20	65	49	65	29	63	30	64	32	67	23	61	29	64	38	60	33	60	36
19....	68	34	68	45	71	39	62	45	65	37	78	45	75	29	70	42	69	44	74	36	68	41	70	47	67	43	67	44
20....	70	46	71	54	77	50	73	50	74	44	80	51	69	41	73	51	74	49	76	44	70	48	72	55	70	52	70	54
21....	67	42	72	34	75	54	69	34	71	43	76	46	70	30	72	58	70	37	68	48	61	31	60	29	61	28	60	26
22....	46	23	40	26	66	30	69	33	45	27	60	29	49	30	.....	25	45	28	55	24	39	21	44	23	39	21	41	20
23....	48	23	62	32	74	35	70	54	62	25	72	27	74	30	69	30	70	33	70	29	47	29	76	37	64	33	66	33
24....	61	43	68	55	79	52	76	68	76	54	80	60	77	47	76	58	75	58	74	34	59	45	70	55	63	52	64	51
25....	58	49	75	56	82	62	69	58	78	53	84	60	78	63	77	55	77	58	75	43	59	46	70	56	67	48	59	48
26....	57	35	62	51	67	55	68	55	67	53	70	56	63	57	66	51	63	56	.....	54	57	35	56	37	56	34	56	32
27....	43	23	59	25	67	30	63	29	61	26	64	30	38	37	66	28	60	30	.....	.....	35	23	37	27	34	23	32	23
28....	35	20	35	24	45	26	41	25	37	22	40	26	42	28	38	24	39	26	.....	.....	35	17	45	28	37	23	37	23
29....	57	26	58	30	66	27	60	30	58	20	66	22	65	28	62	23	60	32	.....	.....	55	28	62	35	57	30	57	32
30....	65	36	64	49	66	45	60	44	64	42	69	50	66	31	65	48	62	50	.....	.....	64	41	66	46	62	44	63	45
31....	54	39	56	39	67	47	65	48	60	38	64	45	62	54	62	39	58	40	.....	.....	52	40	61	48	58	40	59	41
Mns..	49.6	26.6	53.3	33.4	63.7	38.1	59.9	39.1	55.3	32.0	63.5	36.5	56.8	34.7	58.9[e]	34.8[b]	56.2	35.8	55.8[f]	30.5[f]	48.8	28.3	54.6	34.9	50.8	30.9	50.8	31.0

Date.	Ohio.				Indiana.												Philo, Ill.		Kentucky.									
	Marion.		Waverly.§§		Butlerville.		Evansville.		Indianapolis.		Kokomo.		Rockville.		Worthington.				Beattyville.§§		Bowling Green.§§		Earlington.§§		Greensburg.§§		Lexington.	
	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....	35	25	40	33	35	25	31	25	32	16	29	15	32	15	33	21	27	9	41	30	35	30	36	27	36	30	38	28
2....	26	5	34	16	30	8	28	10	18	4	24	2	26	1	37	5	22	0	34	19	32	15	37	15	33	19	28	13
3....	45	11	53	20	52	18	51	28	47	18	42	11	47	15	47	19	45	18	61	17	55	22	56	17	58	19	53	23
4....	42	25	50	31	43	34	45	28	42	23	41	25	45	28	44	31	37	22	53	25	53	30	47	37	51	33	47	31
5....	47	12	42	25	44	22	47	26	43	21	41	16	45	16	46	19	42	19	51	32	51	24	52	22	50	31	43	26
6....	32	12	38	21	40	17	30	18	26	12	38	9	36	11	38	15	25	11	34	24	36	22	32	22	35	22	31	19
7....	27	2	32	10	30	12	34	21	28	12	27	6	27	11	27	13	29	12	41	10	36	15	40	16	38	16	30	14
8....	48	20	58	25	60	23	61	34	58	25	54	23	61	24	62	27	60	29	67	16	63	27	66	23	65	21	59	30
9....	55	40	67	39	64	40	64	44	56	36	52	39	58	40	63	40	55	36	71	26	70	33	70	40	69	37	64	40
10....	52	32	62	40	59	39	53	46	48	33	40	28	47	32	63	38	36	30	55	40	54	45	52	47	54	42	54	43
11....	50	30	55	41	56	36	51	35	46	32	48	29	53	30	52	33	48	28	57	43	60	42	50	40	55	44	48	41
12....	55	28	64	27	60	35	61	38	59	33	57	30	63	33	62	31	60	28	70	32	67	30	68	30	66	32	61	37
13....	67	47	62	49	64	51	61	54	66	49	68	44	72	48	66	50	64	39	64	33	68	50	62	44	65	33	61	53
14....	75	53	78	53	75	51	70	47	71	40	69	50	70	52	72	54	65	38	81	49	78	51	76	56	73	54	75	55
15....	67	37	74	46	62	32	47	26	40	25	60	29	60	27	59	29	38	24	68	51	61	40	45	40	57	44	55	29
16....	39	20	47	27	35	21	39	24	32	22	32	19	36	21	38	23	34	20	68	27	46	22	42	25	41	25	33	22
17....	40	15	45	22	45	18	54	28	47	16	41	7	51	9	52	21	50	13	58	21	51	24	58	24	52	23	48	26
18....	62	30	65	25	63	36	62	40	61	36	60	34	63	36	63	35	63	36	73	23	70	34	67	35	62	28	63	36
19....	70	39	70	30	70	43	67	47	66	41	60	40	69	45	70	46	65	42	77	28	74	35	74	46	73	37	69	43
20....	71	49	73	45	73	51	71	50	66	47	62	41	62	49	66	52	57	38	85	32	74	52	74	47	75	49	69	52
21....	64	34	65	44	72	33	60	29	61	22	59	26	59	27	60	30	54	22	68	50	58	51	49	45	60	53	63	29
22....	43	19	47	23	45	20	46	24	40	19	39	17	42	17	44	20	39	18	58	25	59	25	76	27	54	27	46	24
23....	43	28	72	30	74	34	75	41	69	35	52	31	67	33	73	36	67	34	79	30	79	35	81	37	76	29	75	38
24....	60	43	73	56	76	53	73	59	68	52	66	51	69	51	69	53	67	45	78	36	73	50	78	72	77	50	71	59
25....	56	40	72	58	72	50	71	45	56	40	52	38	53	39	56	49	45	35	84	64	76	61	77	70	75	64	70	56
26....	45	34	60	46	57	37	45	29	40	25	39	26	41	28	50	32	35	25	63	55	53	45	42	42	63	50	62	36
27....	35	21	61	30	38	25	31	26	31	24	30	22	34	23	33	25	32	23	34	30	33	26	32	27	33	29	36	27
28....	38	18	41	24	44	26	46	28	42	23	38	14	42	19	43	24	39	20	49	28	52	23	50	23	48	28	41	27
29....	57	29	62	26	60	32	60	40	58	32	54	31	58	34	59	33	56	34	70	24	67	23	65	30	67	30	61	32
30....	64	43	65	36	68	43	65	51	65	45	62	40	69	42	67	43	65	40	70	29	73	44	72	40	70	38	63	47
31....	58	42	61	51	60	47	62	52	60	45	60	42	62	45	63	46	60	42	67	43	68	53	65	55	66	51	60	44
Mns..	50.6	28.8	57.7	33.8	55.7	32.6	53.6	35.3	49.7	29.1	48.3	26.9	52.2	2.91	54.1	32.0	47.8	26.8	62.2	32.0	58.9	34.8	57.8	36.2	58.0	35.1	54.1	34.8

TABLE 3.—*Maximum and minimum temperatures at selected stations for March, 1913. District No. 8*—Continued.

Date.	Kentucky.						Tennessee.														Madison, Ala.§§		Asheville, N. C.		Virginia.			
	Louisville.		Maysville.§§		Williamsburg.§§		Chattanooga.		Johnson City.§§		Knoxville.		Nashville.		Palmetto.		Sparta.		Waynesboro.						Blacksburg.		Wytheville.	
	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....	35	28	48	33	42	40	54	35	57	40	55	32	42	28	52	31	55	34	50	32	45	40	63	34	62	35	57	36
2....	29	12	28	14	35	19	42	30	38	27	39	29	37	21	41	20	35	25	40	25	42	29	36	27	42	27	38	25
3....	52	26	56	15	58	24	54	28	53	22	53	25	55	30	56	28	60	20	56	25	57	31	54	21	56	20	49	24
4....	48	30	46	26	52	31	56	44	53	24	53	36	56	37	60	40	53	44	60	45	45	47	57	33	52	30	49	32
5....	46	26	46	27	50	32	54	38	53	25	52	36	50	30	56	38	51	34	52	24	58	37	52	37	52	37	49	35
6....	31	19	29	24	38	26	44	30	38	32	43	27	41	25	40	29	45	27	42	26	53	34	41	23	37	30	35	19
7....	30	18	34	11	48	15	45	23	55	19	42	21	41	22	47	19	43	16	47	17	49	31	41	18	33	14	35	14
8....	62	30	62	11	65	16	63	31	65	20	60	33	63	37	63	29	63	25	63	27	63	39	57	28	55	25	52	30
9....	66	46	69	31	68	25	64	39	65	32	66	37	64	42	63	40	67	30	62	33	63	44	64	30	65	29	61	27
10....	52	44	52	43	70	30	60	48	65	35	54	45	56	48	57	48	60	47	58	48	59	45	55	43	45	42	49	42
11....	47	39	53	31	71	30	62	49	54	45	56	46	58	46	60	44	56	46	61	45	60	51	55	44	52	42	50	36
12....	60	32	69	30	68	32	66	41	64	35	66	41	63	37	65	42	66	32	63	34	64	44	56	35	58	28	55	30
13....	65	54	61	31	59	30	69	55	64	40	65	52	67	56	70	48	63	57	69	55	69	45	59	50	50	44	53	46
14....	76	56	80	50	72	29	77	62	76	54	78	60	77	59	76	65	78	57	74	55	76	57	65	55	66	46	67	51
15....	56	28	59	43	61	35	63	37	60	52	65	38	60	31	67	34	69	44	65	35	60	45	65	46	67	52	65	46
16....	37	24	35	23	80	30	44	29	35	33	40	30	43	25	45	27	45	26	45	26	68	29	46	28	52	37	46	24
17....	52	28	52	25	73	50	54	33	55	27	51	27	56	30	58	26	57	23	57	22	50	29	48	28	45	23	46	25
18....	64	40	69	25	70	47	63	37	66	28	65	32	64	37	67	33	60	25	64	31	65	30	56	29	55	23	54	26
19....	69	48	74	30	68	46	63	44	68	30	66	39	68	45	68	47	68	28	65	28	64	40	56	44	60	29	58	34
20....	71	55	74	40	69	46	60	53	66	34	60	50	68	56	62	50	66	53	69	45	69	52	62	48	71	45	70	45
21....	60	29	63	42	71	45	72	48	70	50	71	46	67	37	62	42	69	50	63	46	70	52	72	47	68	56	65	45
22....	48	25	53	25	70	47	65	38	66	37	63	36	57	30	67	31	64	30	61	31	67	35	65	40	56	35	59	35
23....	75	40	77	26	78	30	69	49	70	39	76	45	74	45	75	46	74	44	75	41	75	40	61	47	62	31	61	35
24....	75	65	77	42	75	45	72	60	70	54	75	58	73	65	74	62	72	60	75	64	74	63	64	54	64	44	65	55
25....	70	55	71	65	80	55	75	64	78	60	79	66	78	60	79	70	78	67	77	63	77	63	69	60	71	60	70	63
26....	57	33	63	56	60	60	75	48	69	61	72	58	64	31	77	59	78	58	73	45	72	65	67	59	65	56	66	54
27....	33	27	35	31	48	30	48	31	68	38	59	32	34	28	65	30	63	29	45	30	77	32	62	27	65	29	64	26
28....	44	27	45	27	58	35	51	29	54	28	49	30	47	29	50	24	65	30	52	22	54	28	49	26	44	24	45	25
29....	62	35	70	27	59	40	62	36	66	29	65	33	62	35	64	31	66	28	64	28	65	29	56	30	55	28	56	25
30....	67	50	69	45	61	42	69	50	65	32	62	48	69	50	70	47	71	50	71	48	75	48	60	45	55	36	59	41
31....	60	48	62	53	60	43	75	54	71	43	73	51	69	55	76	52	70	46	75	52	78	49	69	42	69	45	66	46
Mns..	54.8	36.0	57.5	32.3	63.5	34.0	61.0	41.7	61.2	36.3	60.4	40.0	58.8	38.9	62.3	39.7	62.3	38.2	61.1	38.0	63.3	41.4	57.5	38.0	56.4	35.6	55.2	35.4

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Total Precipitation, March 23 to 27, 1913.

(Inches and tenths.)