CLIMATOLOGICAL DATA FOR APRIL, 1913.

DISTRICT NO. 3, OHIO VALLEY.

PROF. FERDINAND J. WALZ, District Editor.

GENERAL SUMMARY.

Weather conditions during April, 1913, on the whole were uneventful, the most prominent features being the sharp variations in temperature and the light rainfall over the larger portion of the district. The weather was generally favorable for all outdoor work, and while the spring growing season was rather backward, vegetation having made but slight growth, especially over the central and northern portions of the district, up to the middle of the month, yet the rains and warm weather of the last two weeks were extremely favorable, and by the end of the month vegetation had made decided progress. Frosts and freezing temperatures occurred at numerous times during the month, the periods of severest weather being about the 5th–8th, 20th–21st, and at the end of the month. There was comparatively little damage done, however, except during the second of these periods, when a large percentage of fruit buds, especially peaches, were reported killed in eastern and southern Ohio, and fruit was killed or damaged in the northern counties of western North Carolina.

There was a large percentage of clear days, and sunshine was abundant over most of the district.

The floods of the last part of March and early April caused considerable loss of oats and clover seed in the lowlands of Ohio and Indiana where they had just been sown, but reports state that there was little damage to the winter wheat crop of those States.

The rainfall, while generally light for April, was well distributed through the month and on that account made up somewhat for the deficiency in amount. The soil was generally reported in good condition despite the extraordinary wet weather of the latter part of March.

High-pressure areas largely dominated the weather conditions of the month. But two shallow depressions and no well-defined cyclonic storms passed across the Ohio Valley during the entire month. The stronger disturbances that approached drew up the Mississppi Valley and passed eastward far to the north.

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	47.2	+3.6	87	17	4.60	+1.59	5.67	3.77	1.90	12	1.7
Pennsylvania	49.7	+1.5	89	17	2.78	−0.62	4.17	2.05	1.15	11	0.2
Maryland	46.6	+1.2	83	11	2.98	−0.72	3.06	2.86	0.83	11	0.3
West Virginia	52.5	+0.6	92	16	2.99	−0.89	5.48	1.61	2.25	10	T.
Ohio	50.7	+0.5	90	18	3.51	+0.38	5.50	1.87	2.33	11	T.
Indiana	52.4	+0.1	89	20	3.56	+0.13	5.78	1.79	2 78	11	T.
Illinois	53 7	−0.1	90	27	2.91	−0.79	3.90	2.12	1.32	9	T.
Kentucky	55.3	+0.3	89	27	2.73	−1.23	4.32	1.18	1.45	10	T.
Tennessee	57.7	+0.1	90	23	2.53	−1.83	5.53	1.14	2.03	8	T.
Alabama	59.3	−1.2	87	31	2.10	−2.20	3.13	1.58	1.47	7	0
Georgia	55.9	−1.0	87	34	0.58	.....	.....	.....	0.20	6	T.
North Carolina	51.9	−0.6	84	21	3.10	−1.91	6.32	0.72	3.85	8	1.0
Virginia	51.0	−0.2	86	20	2.75	−0.77	3.64	1.68	1.80	9	0.2

TEMPERATURE.

The temperature averaged from 1.5° to 3.5° above normal over western Pennsylvania and extreme western New York, and from 1° to 1.5° below normal over the northern portions of Alabama and Georgia. Elsewhere the daily temperature average differed less than 1° from the April normal. Unseasonably warm weather, which had overspread the district on the last two days of March, continued through the first three or four days of April, but a change to colder set in on the 5th and continued, with but a slight interruption about the 10th, until the 15th. From the 5th to the 8th, inclusive, minimum temperatures were unseasonably low for the season in all parts of the district and were largely below freezing. They ranged as low as 11° to 16° in western Maryland, between 19° and 35° over West Virginia, western Pennsylvania, and sections north of the Ohio River, and between 28° and 38° over Kentucky, Tennessee, western North Carolina, and southwestern Virginia.

Minimum temperatures were again unseasonably low in the period 13th–15th, when they ranged generally between 30° and 40°. However, the most harmful cold weather is reported to have occurred on the 20th and 21st, when, after two days of very warm weather, with day temperatures registering between 70° and 90°, a sharp cold wave overspread the district and brought freezing temperatures practically into all sections, the temperature falling as low as 16° and 18° in West Virginia, Ohio, and western Pennsylvania; 20° to 25° in North Carolina and southwestern Virginia, and 25° to 35° over the remainder of the district. After the 21st the temperature increased rapidly, and from the 22d to the 25th, inclusive, day temperatures were again high, the maxima ranging between 78° and 92°. Another cool wave, however, overspread the Ohio Valley from the 27th to the end of the month, when frosts and temperatures near freezing or below were reported from much of the district, but especially from the southern and eastern sections.

PRECIPITATION.

The total precipitation was considerably above normal over southwestern New York, slightly above over Ohio and Indiana, but below normal in all other sections of the district, the greatest deficiency being over the more southerly sections. Excessive 24-hour rainfalls were reported from only three places, namely, Shoals, Ind., on the 4th, and Blowing Rock and Highlands, N. C., on the 11th.

Between 4 and 6 inches of rain fell over extreme western Tennessee, over the White River Basin of Indiana, over western Ohio, southwestern New York, a small area in central West Virginia, and at a few scattered stations in other sections. The amount was less than 2 inches over a considerable area in the western portions of Kentucky and Tennessee and over the upper half of the Tennessee River Basin, and less than 1 inch over a small area in southwestern North Carolina and northern Alabama. Over practically all the remainder of the dis-

trict the monthly amounts ranged between 2 and 4 inches. Rainfall was quite well distributed through the month. The more important precipitation periods, however, were the 3d–5th, 10th–14th, and the 25th–29th.

Snow in appreciable amount fell only in the extreme northeastern portion of the district and at a few of the more elevated stations in the Appalachian section. The greatest amounts were 2.5 inches at Bolivar, N. Y., 3 inches at Warren, Pa., and 5 inches at Banners Elk and 6 inches at Highlands, N. C.

MISCELLANEOUS.

Thunderstorms occurred quite generally on the 2d over Pennsylvania, West Virginia, Ohio, Indiana, and Illinois; on the 3d in Indiana, Illinois, and Kentucky; on the 4th over Indiana, Illinois, Kentucky, Tennessee, and Alabama; over Kentucky and Tennessee on the 9th and 10th; over West Virginia on the 14th and 15th, and over all the district as far south as Tennessee on the 18th and 19th and again on the 26th and 27th. The following losses from lightning were reported: In Illinois, at Hume, a barn and contents, including 8 horses and 2 cows, were destroyed; at Westfield a barn and contents were destroyed, and at Rossville 2 cows were killed. In Grant County, Ky., several barns were struck by lightning and destroyed on the 20th. In Lawrence County, Ind., during the night of the 18th–19th, a barn was struck by lightning and 1 horse killed; also about the same time another barn was struck, 5 horses killed, and the structure with all its contents destroyed.

MARCH–APRIL, 1913, FLOODS IN THE OHIO VALLEY.

From March 23 to 27, inclusive, unusually heavy rains fell over practically all the Ohio River Basin. They were phenomenally heavy over the northern watershed, and especially over the drainage areas of the tributaries in Ohio, Indiana, and eastern Illinois. A detailed account of this rainfall was published in the March number of the Monthly Weather Review, and a complete story of the flood in all its features will be given in a special bulletin of the Weather Bureau.

In accounting for the unprecedented, almost inconceivable, devastation wrought by the rivers in Ohio and Indiana, much stress must be laid not only on the fact that the rainfall was phenomenally great, 6 to 12 inches, over all the drainage areas of those rivers, greater probably than ever before recorded in those sections in the same length of time, and that the greatest precipitation occurred over the headwaters of those rivers, but also on the fact that the excessive rains began earlier at the headwaters and progressed down the streams. Thus the rush of flood waters from the sources of the streams was constantly and rapidly being added to as it passed down, resulting in a tremendous cumulative flood wave and accelerated current, gathering and carrying in its onrush an enormous amount of drift, augmenting the destructive forces.

The precipitation which caused the floods in January last was much heavier over the southern than over the northern watershed, also the line of advance of the precipitation areas was in the usual direction, namely, southwest to northeast. Hence only over the lower Tennessee and over the Cumberland and Green River Basins did the excessive rains progress downstream and cause an accumulative flood wave in those rivers similar in some degree to that of March in the rivers of Indiana and Ohio.

October 3 to 6, 1910, excessive rains fell in the lower Ohio Valley and over much of the drainage areas of the northern tributaries of the river as far east as the upper basin of the Scioto in northern Ohio. Over much of the drainage areas of the Wabash, Great Miami, and Scioto Rivers the aggregate rainfall for the 4-day period ranged from 6 to 10 inches, and is therefore fairly commensurate and comparable with the rains which fell over those sections March 23d–27th last. It is true that the rainfall was considerably larger over the headwaters of those rivers in March, 1913, than in October, 1910, and also that the October rains fell on comparatively dry ground, while the March rains fell on ground well saturated. Yet the difference in the amount of rainfall and the condition of the ground are not sufficient in themselves to account for the incomparable difference in the damage done by the flood waters of October, 1910, and those of March, 1913. In October, 1910, the rain area advanced from southwest to northeast and there was no cumulative flood wave in the northern streams. The water reached a stage of 13.7 feet at Columbus, Ohio, October 7, 1910, and 22.9 feet March 25, 1913.

Oct. 1910

The northern tributaries of the Ohio, from the Wabash to the Beaver, were all higher in the recent flood than in any flood of previous record. The Allegheny River at only a few places exceeded the highest stage known. None of the southern tributaries exceeded previous records of high water, except where stages were due to backwater.

The main stream did not reach stages above previous records at points above New Martinsville, W. Va. At Wheeling, W. Va., the crest stage was 2 feet below the 1884 record. From New Martinsville, W. Va., to Chilo, Ohio, about 30 miles above Cincinnati, the flood stages exceeded the record stages of 1884. This excess was greatest at Marietta, 5.7 feet. It was 5 feet at Parkersburg and gradually decreased toward Chilo. At Cincinnati the stage was 1.3 feet below the 1884 stage, the 1884 stage being materially affected by water from the Licking River. At Madison, Ind., the stage was 1 foot above the 1884 stage, probably due to the combined flood wave from the Great Miami and Kentucky Rivers. At Louisville the crest was 1.8 feet below the 1884 stage. From Hawesville, Ky., to Paducah, Ky., the flood crest ranged from 0.1 foot to 3.1 feet above the 1884 stage. At Cairo, Ill., the crest was the highest known, being 0.9 foot above the crest of April, 1912, and 2.6 feet above the crest of February, 1883. The water was higher at Cairo in 1883 than in 1884.

Northern tributaries.—The water in the Allegheny River was at some places above the high stage of 1865 and at others it closely approached that stage. The flood in the Beaver River exceeded by from 5 to 7 feet all previous records for that stream. The Chenango River was 3 feet higher than ever before known. The Muskingum, at Zanesville, reached a crest stage of 51.8 feet, or 15 feet higher than ever before known.

Every stream in the State of Ohio, except the Hocking River and the small creeks in the southeastern counties, was higher than ever before known. The Scioto, at Columbus, Ohio, reached a crest of 22.9 feet, which is 1.6 feet above the flood mark of March, 1898, the highest water recorded previously. The flood crest of the Great Miami was 7.7 feet higher at Dayton, and 13.6 feet higher at Hamilton, Ohio, than any previous high-water mark. At Tiffin, Ohio, on the Sandusky, the water was 8 feet higher, and at Delaware, on the Olentangy, 15.7 feet higher than any previous record. The flood in the White River reached a crest of 25.7 feet at Indianapolis, which

is 4.4 feet above the flood of March, 1904, the highest previous record.

The flood in the Wabash River reached a crest of 33.4 feet at Attica and 31.3 feet at Terre Haute, the highest water ever known at either place. At Mount Carmel, Ill., a crest of 31 feet was reached in the Wabash River, which is 3 feet above any previous record. Records of water stages in the Big Vermillion River, kept by one family for 100 years, show that the stage March 26, 1913, was the highest in all the record.

Southern tributaries.—The Monongahela was at no time above flood stage. The Great Kanawha, the Big Sandy, and the Licking Rivers were all considerably above flood stage, but within the records of previous years. The Kentucky River reached a flood crest of 39.9 feet at Beattyville, 34.6 feet at High Bridge, and 38.3 feet at Frankfort. These stages are 7.9 feet, 1.6 feet, and 4.5 feet, respectively, above the flood crest reached in January last. At Frankfort the Kentucky River reached a stage of 42 feet in February, 1884, and 44.5 in February, 1878. The Green River was much above flood stage, but not as high as in January last. In the Cumberland River the flood was much more severe in the upper than in the middle and lower sections. At Burnside, Ky., where the Cumberland rose 42 feet in 24 hours, a flood crest of 61.5 feet was reached, the same as in January, 1913. At all other stations on the Cumberland the flood crest was below that of January. In the Tennessee River flood stages were barely reached at any point above where stages were affected by backwater from the Ohio.

TABLE 1.—*Climatological data for April, 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	47.3	.....	83	24†	20	21	46	5.67	.....	1.90	1.5	16	13	8	9	nw.	Charles E. Whitney.
Bolivar	Allegany	1,800	19	47.1	+ 3.6	87	26	17	21	47	4.36	+ 1.59	1.72	2.5	8	13	10	7	sw.	Charles F. Hoffman.
Olean	Cattaraugus	1,402	5	.....	.....	.....	.....	.....	.....	.....	3.77	.....	1.40	1.0	11	.....	.....	.....	w.	John W. Alles.
Pennsylvania.																				
Aleppo	Green	1,135	12	50.6	+ 1.4	86	25	20	21	43	2.05	− 1.76	0.87	T.	9	14	8	8	nw.	J. S. Hinerman.
Baldwin	Butler	1,404	7	48.3	.....	83	25†	22	21	43	2.22	.....	0.76	T.	7	11	9	10	w.	S. H. Templeton.
Beaver Dam	Beaver	674	19	.....	.....	.....	.....	.....	.....	.....	2.26	− 0.71	0.53	0	14	12	4	14	ne.	U. S. Engineer.
Brookville	Jefferson	1,173	22	50.0[b]	.....	87	25	17	8	51[b]	2.90	− 0.24	1.00	0	13	.....	.....	.....	w.	H. C. Bartholomew.
California	Washington	770	....	53.0	.....	87	25	24	8	47	3.13	.....	0.88	0	10	10	8	12	w.	Prof. B. U. P. Cobaugh.
Clarion	Clarion	1,078	28	.....	.....	.....	.....	.....	.....	.....	2.85	− 0.66	0.70	1.0	11	16	1	13	w.	P. O. Miller.
Claysville	Washington	1,127	9	51.4	.....	87	25†	19	21	45	3.28	.....	0.95	0	13	14	7	9	w.	E. T. Buchanan.
Confluence	Somerset	1,352	29	.....	.....	.....	.....	.....	.....	.....	3.28	− 0.20	0.60	0	10	8	8	14	.....	Grant Pyle.
Franklin	Venango	955	39	49.2	+ 3.0	84	25	23	8†	43	2.65	− 0.06	0.59	0.2	12	12	6	12	nw.	F. E. Dixon.
Freeport	Armstrong	772	40	.....	.....	.....	.....	.....	.....	.....	2.63	− 0.63	0.69	T.	11	13	1	16	.....	Mrs. Anna R. Burtner.
Greensboro	Green	768	24	.....	.....	.....	.....	.....	.....	.....	2.64	− 0.78	0.52	0	13	11	1	17	sw.	James G. Cramer.
Greenville	Mercer	950	17	47.9	+ 2.1	85	24	20	8†	49	2.10	− 0.87	0.63	T.	11	17	5	8	nw.	A. M. Orr.
Indiana	Indiana	1,350	16	51.2	+ 1.6	88	25†	19	8	48	2.52	− 1.78	0.65	0	10	16	7	7	.....	R. W. Wehrle.
Johnstown	Cambria	1,184	25	51.0	+ 1.5	88	25†	24	8	48	2.44	− 1.37	0.72	T.	15	8	9	13	nw.	E. C. Lorentz.
Lock No. 4	Washington	718	27	.....	.....	.....	.....	.....	.....	.....	3.08	− 0.12	0.96	0	11	12	6	12	sw.	R. T. McGowan.
Lycippus	Westmoreland	1,420	21	50.6	+ 1.2	81	25	24	8	33	3.16	− 0.66	0.70	0	11	.....	.....	.....	.....	Murray Forbes.
Mosgrove	Armstrong	775	2	.....	.....	.....	.....	.....	.....	.....	2.72	.....	0.97	0.1	13	14	0	16	sw.	C. J. Moore.
Pittsburgh	Allegheny	842	43	51.6	+ 0.6	84	25	29	8	33	2.53	− 0.37	0.68	T.	11	12	6	12	nw.	U. S. Weather Bureau.
Ridgway	Elk	.....	0	49.6	.....	87	25	18	21	48	2.72	.....	1.13	0.3	12	.....	.....	.....	.....	F. J. Eagen.
Saegerstown	Crawford	1,116	22	46.7	+ 1.7	85	25	19	8†	48	3.21	+ 0.12	0.80	T.	14	4	16	10	nw.	J. G. Apple.
Sharon	Mercer	940	2	49.8	.....	83	25	23	21	41	2.09	.....	0.44	T.	10	12	0	18	sw.	Norman S. Powell.
Somerset	Somerset	2,250	57	47.6	+ 1.5	84	25†	17	8	48	3.05	− 1.42	0.52	T.	9	12	6	12	nw.	W. M. Schrock.
Uniontown	Fayette	999	25	50.0	− 0.6	83	25	25	8†	45	3.05	− 0.63	0.80	T.	12	.....	.....	.....	.....	William Hunt.
Warren	Warren	1,137	24	47.0	+ 2.6	89	25	18	21	50	4.17	+ 1.03	1.15	3.0	11	14	0	16	sw.	Anna Simpson.
Maryland.																				
Deer Park	Garrett	2,457	20	46.5	+ 1.7	82	24	11	8	53	3.06	− 0.55	0.60	0	12	.....	.....	.....	.....	S. P. Specht.
Grantsville	.....do	2,351	20	46.9	+ 1.3	83	24	16	8	44	3.02	− 0.38	0.83	0	9	.....	.....	.....	.....	J. S. Miller.
Oakland	.....do	2,461	14	46.4	+ 0.7	82	25	14	8	50	2.86	− 1.22	0.62	0.9	13	12	10	8	w.	R. E. Weber.
West Virginia.																				
Bancroft	Putnam	574	10	55.2	+ 1.7	90	23†	28	7	48	2.75	− 1.33	0.55	0	9	13	3	14	ne.	R. E. Dent.
Beckley	Raleigh	2,440	14	49.4	+ 0.5	81	25	21	21	46	2.54	− 1.46	0.98	T.	4	19	2	9	w.	John A. Ewart.
Bens Run	Pleasants	622	12	54.2	+ 2.5	87	25	26	8	42	2.82	− 1.69	0.86	0	10	20	3	7	.....	J. D. Riggs.
Bluefield	Mercer	2,563	19	53.8	+ 0.4	81	25	27	21	48	2.34	− 1.33	0.50	0	8	14	4	12	.....	Norfolk & Western R. R.
Buckhannon	Upshur	1,472	23	50.2	− 0.8	84	25	23	7†	46	3.09	− 1.17	0.80	0	10	18	4	8	.....	H. A. Darnall.
Cairo	Ritchie	667	11	55.9	+ 1.4	88	24†	22	21	48	3.08	− 0.74	0.76	0	14	5	16	9	w.	Van A. Zevely.
Central Station	Doddridge	900	11	52.0	+ 0.9	87	25	21	8	48	1.99	− 1.02	0.43	0	11	12	5	13	w.	G. W. Sherwood.
Charleston	Kanawha	598	28	56.6	+ 0.1	86	25†	32	7†	43	2.52	− 1.15	0.50	0	11	17	4	9	w.	R. C. Hewes.
Creston	Wirt	612	12	54.2	+ 2.1	87	25	25	7	47	3.19	− 0.95	0.56	0	12	12	6	12	w.	J. M. Reed.
Cuba	Jackson	544	13	53.1	+ 0.9	85	25	23	7	46	2.46	− 0.90	0.66	0	11	9	16	5	nw.	C. T. Perry.
Doane	Wayne	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. A. Smith.
Elkhorn	McDowell	1,933	21	53.7	+ 0.6	81	24	29	21	40	2.46	− 1.28	0.68	0	9	14	9	7	sw.	J. J. Lincoln.
Elkins	Randolph	1,940	14	49.1	+ 0.4	85	25	20	8	48	3.75	+ 0.46	1.14	T.	16	7	13	10	w.	U. S. Weather Bureau.
Fairmont	Marion	879	21	52.2	.....	91	25	24	21	50	2.10	− 1.56	0.66	0	13	20	0	10	w.	F. P. Hall.
Glenville	Gilmer	738	24	54.4	+ 1.5	92	25	25	7†	49	4.10	+ 0.36	1.18	0	7	15	1	14	w.	Joe N. Craddock.
Grafton	Taylor	985	21	53.5	+ 2.2	88	25	23	21	48	2.40	− 1.51	0.90	0	9	18	3	9	s.	Joseph Gerkem.
Green Sulphur Springs.	Summers	1,600	18	52.1	+ 1.4	84	24	23	21	49	1.61	− 1.69	0.48	0	10	11	7	12	w.	Arthur George.
Hinton	.....do	1,400	24	53.1	− 0.2	86	24†	28	21	50	1.90	− 1.46	0.72	0	8	13	2	15	sw.	J. B. Lavender, C. E.
Holcomb	Nicholas	.....	1	48.8[a]	.....	83[a]	25	22	21	48[a]	4.33	.....	1.23	0	13	14	1	15	.....	R. E. Ferguson.
Huntington	Cabell	510	18	54.4	+ 0.8	86	25	32	21	44	2.48	− 1.35	0.64	0	9	18	0	12	w.	L. H. Hutchinson.
Lewisburg	Greenbrier	2,200	13	50.4	+ 0.5	80	24†	23	21	48	3.04	− 0.32	1.40	0	5	23	5	2	nw.	George T. Argabrite.
Logan	Logan	665	11	56.8	− 1.0	85	24	30	7†	45	3.10	− 1.89	1.30	0	9	19	5	6	e.	Dr. J. E. McDonald.
Lost Creek	Harrison	1,033	13	49.2	− 0.6	85	25	20	7	48	2.46	− 1.06	0.69	0	9	14	7	9	w.	Allen Smith.
Madison	Boone	704	8	53.4[c]	.....	85[b]	25	27[c]	7	49[c]	2.54	.....	1.26	T.	7	10[b]	9[b]	9[b]	.....	S. E. Bradley.
Mannington	Marion	967	11	51.4	+ 0.1	87	25	21	8†	48	2.33	− 2.05	0.80	0	13	13	2	15	sw.	James A. Morgan.
Marlington	Pocahontas	2,169	17	47.5	0	76	23†	16	21	49	3.75	+ 0.70	1.30	1.0	7	14	16	0	.....	C. J. McCarty.
Morgantown	Monongalia	1,250	39	51.9	+ 0.9	84	25	24	8	38	2.77	− 0.65	0.80	0	12	17	5	8	w.	Horace Atwood.
Moundsvill	Marshall	640	11	54.0	+ 1.9	89	25	24	20	48	2.14	− 1.03	0.50	0	9	13	5	12	nw.	M. L. Brown.
New Cumberland	Hancock	987	14	50.4	+ 0.9	85	25	21	21	47	2.40	− 1.20	0.60	0	7	12	3	15	n.	Frank S. Evans.
New Martinsville	Wetzel	634	20	55.2[c]	+ 2.3	90[c]	25	28[c]	9†	45[c]	2.74	− 0.87	0.80	0	8	19	1	10	w.	William Ankrom.
Nuttallburg	Fayette	2,252	21	49.8[i]	− 1.9	79[i]	24	24[i]	21	38[i]	3.77	+ 0.49	1.85	0	4	12[i]	4[i]	5[i]	.....	Miss Donna Tully.
Parkersburg	Wood	638	25	53.0	0	86	25	29	8	41	1.81	− 1.10	0.53	0	13	14	6	10	n.	U. S. Weather Bureau.
Parsons	Tucker	1,662	14	49.2	+ 0.6	86	25	19	8†	50	3.18	− 0.68	1.00	T.	14	15	8	7	.....	J. W. Swisher.
Philippi	Barbour	1,192	21	53.1	+ 2.3	86	25	20	8†	50	3.19	− 0.87	0.92	0	12	11	11	8	w.	J. D. Dadisman.
Pickens	Randolph	2,785	23	48.4	+ 0.1	84	23†	20	8	49	5.48	+ 0.50	2.25	1.0	12	15	8	7	w.	Dr. J. L. Cunningham.
Point Pleasant	Mason	553	23	55.7[g]	+ 0.9	88[g]	25	28[g]	21	46[g]	3.20	− 0.11	0.66	0	10	13	3	14	se.	W. D. Holmes.
Powellton	Fayette	904	16	56.4	+ 2.4	88	25	27	21	48	4.17	+ 0.38	1.96	0	12	15	7	8	.....	Morris Hansford.
Princeton	Mercer	2,469	13	48.9	− 0.4	77	25	22	21	40	4.25	− 1.79	1.50	T.	8	12	11	7	w.	H. Scott.
Robertsburg	Putnam	574	13	53.1	+ 0.1	87	25	27	7	46	2.90	− 1.23	0.53	0	12	16	2	12	n.	E. P. Turley.
Ryan	Roane	639	10	51.9	− 0.6	85	25	21	7	50	3.07	− 1.00	0.60	0	13	13	6	11	.....	William E. Ryan.
Smithfield	Wetzel	919	9	53.8	.....	76	28	22	1	43	2.24	.....	0.82	0	6	12	8	10	w.	G. M. Whisler.
Spencer	Roane	710	15	50.8	.....	88	24	22	7†	55	2.92	− 0.62	0.54	0	10	4	10	16	.....	A. M. McKown.
Sutton	Braxton	839	10	55.5[a]	.....	89	25	27[a]	7†	50[a]	2.47	− 2.55	0.99	0	5	12[a]	7[a]	10[a]	.....	Ben Gillespie.
Terra Alta	Preston	3,207	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. B. Elliott.
Union	Monroe	.....	9	49.5	− 1.3	80	25	20	21	47	4.05	+ 0.72	1.38	0	6	.....	.....	.....	.....	Shelton Clark.
Valley Fork	Clay	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Miss Blanche Pierson.
Webster Springs	Webster	1,500	10	51.9	.....	85	25	23	8†	48	4.81	.....	1.03	T.	13	11	8	11	nw.	D. H. Hamrick.
Wellsburg	Brooke	1,225	19	50.6	+ 2.1	81	24†	25	8	36	3.41	+ 0.25	1.20	0	9	14	6	10	n.	C. P. Waugh.
Weston	Lewis	824	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Miss C. M. Davis.
Wheeling	Ohio	645	29	52.8[a]	.....	90	25	26[a]	21	54[a]	2.35	− 0.76	0.56	0	14	17	1	12	sw.	Miss M. B. Forsyth.
Williamson	Mingo	660	12	54.6	− 0.9	88	25	30	7†	51	2.62	− 1.80	0.92	0	8	15	2	13	w.	J. F. Keyser.
Ohio.																				
Amesville	Athens	630	9	53.2	.....	88	23†	23	7†	52	2.38	.....	.52	0	11	15	6	9	nw.	F. W. Gibson.
Ashland	Ashland	1,079	13	49.7	.....	88	23	23	21	36	3.46	+ 0.77	.74	T.	12	6	4	20	w.	S. W. Brandt.
Bangorville	Richland	1,380	26	48.7	+ 0.1	81	25	24	6†	38	4.71	+ 1.56	1.14	0	12	12	9	9	nw.	S. M. Painter.

TABLE 1.—*Climatological data for April, 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.
Ohio—Continued.																				
Bellefontaine	Logan	1,276	34	47.2	− 1.3	77	25	25	21	36	4.87	+ 1.58	0.73	0	12	14	8	8	sw.	Cory L. Lane.
Bladensburg	Knox	1,100	20	48.7[a]	+ 0.5	81[a]	25	19[a]	21	44[a]	2.68	− 0.36	0.75	0	11	10	13	7	nw.	Miss Mary Elliott.
Brilliant	Jefferson	700									3.51		1.00	0	7	15	4	11	e.	Mrs. Mary K. Pennell.
Cadiz	Harrison	1,245	9	51.0[b]		86	25	25[c]	7†	42[c]	2.36		0.50	T.	9	17	2	11	nw.	Harry B. McConnell.
Cambridge	Guernsey	803	21	50.2	+ 0.5	84	25	20	21	45	2.12	− 1.22	0.52	0		12	14	4		Samuel Mehaffey.
Camp Dennison	Hamilton	570	20	53.0	+ 0.1	83	25	30	21	42	4.33	+ 1.31	1.41	0	12	13	7	10	nw.	Henry F. Pinkvoss.
Canal Dover	Tuscarawas	884	20	50.8[b]	+ 2.7	84[b]	25	21[b]	21	40[b]	3.11	− 0.22	1.20	0	7				w.	Ed. S. Slingluff.
Canton	Stark	1,089	30	48.7	+ 0.5	85	25	22	21	52	3.47	+ 0.16	0.80	0	12	14	2	14	nw.	Carl H. Meyer.
Cardington	Morrow	1,010	18	49.1[a]	+ 0.2	82[a]	25†	24[a]	21	35[a]	3.62	+ 0.37	1.07	0	6	12	0	18	nw.	J. W. Shaw.
Chillicothe	Ross	630	10								2.84		0.87	0	7					Marion Mackey.
Cincinnati	Hamilton	628	42	54.0	− 0.3	82	18	32	8	33	3.84	+ 0.89	1.23	0	11	10	8	12	nw.	U. S. Weather Bureau.
Circleville	Pickaway	694	25	52.4	+ 0.6	87	25	27	7	39	3.72	+ 0.71	0.71	0	10	16	4	10	n.	Dr. H. R. Clarke.
Clarington	Monroe	600	10	51.7	+ 0.4	88	25	23	8†	46	2.45	− 1.69	0.60	0	9	12	6	12	sw.	Col. S. Tschappat.
Columbus	Franklin	918	35	50.4	− 0.6	82	25	28	8	30	3.91	+ 1.04	1.03	T.	12	15	6	9	nw.	U. S. Weather Bureau.
Coshocton	Coshocton	770	4																	Mrs. Ada Jeffries.
Dayton (1)	Montgomery	899	2	50.6	− 1.0	78	25	28	8	31	4.78	+ 1.88	1.77	0	9	10	11	9	n.	U. S. Weather Bureau.
Dayton (2)	do	790	32	51.0	− 0.7	81	25	28	8†	38	5.31	+ 2.30	1.00	0	12					Mrs. Edith E. L. Boyer.
Delaware	Delaware	896	16	50.2	+ 1.6	86	25	24	8†	41	4.62	+ 1.70	1.22	0	10	16	5	9	sw.	DeWitt H. Leas.
Demos	Belmont	1,325	25	49.9	− 0.1	87	25	21	8	40	2.63	− 0.63	0.49	0	13	14	4	12	n.	J. T. Dysart.
Dennison	Tuscarawas	846	3	51.9		86	25	22	21	47				0	10	15	11	4	n.	Water Supply Co.
Frankfort	Ross	745	21	51.8	− 0.4	86	25	26	21	43	3.43	+ 0.20	0.80	0	9	16	3	11	s.	O. A. Cory.
Gallipolis	Gallia	580	1								2.88		0.52	0	11					Samuel F. Neal.
Garrettsville	Portage	1,005	29	47.8	+ 1.9	85	25	18	21	45	2.96	− 0.04	0.52	T.	14	12	6	12	nw.	S. M. Luther.
Granville	Licking	960	31	50.5	+ 0.9	84	25	24	21	40	3.86	+ 1.01	1.24	T.	12	16	0	14	e.	Dr. L. E. Davis.
Gratiot	do	1,000	24	50.1	0.0	82	25	24	21	40	2.84	− 0.06	0.54	0	13	7	18	5	nw.	W. B. Longstreth.
Green	Adams	500	20	54.0	+ 1.0	84	23	29	21	48	2.49	− 0.84	0.75	0	7	10	12	8	nw.	W. F. Kenyon.
Green Hill	Columbiana	1,135	20	47.8	+ 1.2	82	25	19	21	44	2.27	− 0.69	0.38	T.	10	14	8	8	nw.	Jos. E. Bentley.
Greenville	Darke	1,060	27	50.8	+ 0.9	81	23	29	8	39	3.98	+ 0.88	1.15	0	14	14	5	11	s.	Geo. A. Katzenberger.
Hamilton	Butler	601	1								5.50		2.33	0	7	15	3	12		Earl W. Stout.
Haydenville	Hocking	700	1								2.98		0.65	0	8				nw.	H. W. Stiers.
Hillsboro	Highland	1,063	34																	Carey H. Roush.
Ironton	Lawrence	575	30	55.0	+ 1.6	87	25	30	21	46	3.54	− 0.02	1.04	0	13	16	3	11	sw.	James Bull.
Kenton	Hardin	1,015	21	47.6[a]	− 2.7	81	25	24	21	38	3.48	+ 0.03	0.80	0	9	16	4	10	ne.	Frank B. Rarey.
Killbuck	Holmes	1,087	20	51.6	+ 2.6	84	25	22	21	42	3.29	− 0.02	1.17	0	9	22	2	6	sw.	John A. Schonauer.
Kings Mills	Warren	640	1								4.41		1.10	0	12	17	1	12	nw.	Frank M. See.
Lancaster	Fairfield	898	18	51.3	+ 0.5	83	25	27	8	34	3.36	+ 0.22	0.85	0	9	15	5	10	nw.	R. L. Renshaw.
McConnellsville	Morgan	710	29	51.4	+ 0.6	83	25	24	8†	45	2.28	− 0.82	0.49	0	9	10	8	12	n.	C. H. Morris.
Marietta	Washington	627	93	54.2[d]	+ 0.9	86[d]	24†	25	5	42				0						Prof. T. D. Biscoe.
Marion	Marion	980	35	50.4	+ 0.7	85	25	23	21	40	4.39	+ 1.25	0.87	0	11	6	14	10	ne.	Dr. E. H. Raffensperger.
Milfordton	Knox	1,200	21	49.2	+ 1.5	82	25	21	21	41	3.21	+ 0.11	1.00	0	11	14	6	10	nw.	L. H. Burgess.
Milligan	Perry	875	20	51.3	+ 1.1	85	25	19	21	52	2.39	− 0.65	0.57	0	9	9	15	6	nw.	V. C. Eveland.
Millport	Columbiana	1,145	20	48.4	+ 0.3	84	25	19	21	47	2.28	− 0.80	0.51	0	11	11	6	13	sw.	G. F. Copeland.
Nellie	Coshocton	850	13	49.9	+ 0.5	82	23	26	8†	46	3.24	+ 0.39	0.97	0	9	10	7	13	nw.	Ethel L. Gammertsfelder.
New Berlin	Stark	1,100	20	48.4	+ 0.6	82	25	20	21	40	2.82	− 0.67	0.53	0	11	17	4	9	n.	Clayton Holl.
New Waterford	Columbiana	1,053	18	49.1	+ 2.3	90	25	21	8	52	2.41	− 0.78		0		15	7	8		Sam. C. Scott.
O. S. University	Franklin	757	30	50.4	+ 0.5	81	25	28	7†	33	4.27	+ 1.26	0.80	0	12	8	13	9	n.	Prof. H. C. Lord.
Oregonia	Warren																			E. H. Stephens.
Pataskala	Licking	1,015	21	49.8	0.0	83	25	23	21	41	3.37	− 0.14	0.68	0	14	12	12	6	n.	J. N. Ridenour.
Peebles	Adams	645	2	50.6		83	24	22	21	48	3.60		0.56	0	14	15	6	9	nw.	Ora O. Smalley.
Philo	Muskingum	1,018	18	51.4	+ 0.7	84	25	24	21	38	2.55	− 0.50	0.41	0	9	15	8	7	nw.	L. C. Burckholter.
Piqua	Miami	847	3								4.70		2.00	0	10	16	4	10	se.	Harry L. Roberts.
Plattsburg	Clark	1,130	20	49.6	− 0.6	79	24†	26	8	39	4.18	+ 1.14	0.98	0	9	11	11	8	n.	F. E. Stewart.
Portsmouth	Scioto	527	82	53.9[e]	− 1.7	87[e]	23†	31[e]	8†	40[e]				0		17	0	13	sw.	Dr. H. A. Schirrmann.
Prospect	Marion	909	3																	Neil J. Gast.
Sidney	Shelby	985	30	49.6	− 0.3	81	24†	27 ~~24~~	21	51	4.18	+ 0.94	1.08	0	11	15	5	10	sw.	Hamline B. Blake.
Somerset	Perry	1,080	14	51.4	+ 1.0	84	25	25	8	39	2.83	− 0.14	0.58	T.	12	16	7	7	n.	Miss M. W. C. Sheridan.
Springfield	Clark	980	19								5.36	+ ~~1.81~~ 2.51	1.53	T.	9	12	12	6	nw.	W. A. Webster
Summerfield	Noble	1,187	7	50.7		84	25	20	21	45	2.81		0.50	T.	12	11	11	8	nw.	H. R. McClintock.
Syracuse	Meigs	583	2	54.0		90	25	26	21	48	5.41		0.91	0	13	13	6	11	w.	Irving R. Karr.
Thurman	Gallia	696	20	53.8	− 0.2	86	25	28	21	44	2.60	− 0.01	0.52	0	8	12	7	11		D. D. Thomas.
Toboso	Licking			50.2		83[a]	25	23	8	46[a]	3.54		0.95	0	11				sw.	H. A. Albyn.
Urbana	Champaign	1,031	45	49.8	+ 0.5	81	24	25	7†	45	5.14	+ ~~1.08~~ 2.02	1.48	T.	11	10	12	8	nw.	Prof. J. H. Williams.
Warren	Trumbull	900	24	48.9	+ 2.0	84	24	23	21	42	2.67	− 0.19	0.62	T.	11	16	7	7	nw.	M. D. McCorkle.
Waverly	Pike	590	30	51.7	− 1.4	85	~~23~~ 24	26	21	44	3.77	+ 0.41	0.90	0	13	16	1	13	w.	Dr. Peru Hutt.
Waynesville	Warren	700	28	51.0	+ 0.7	79	25	29	6†	36	5.39	+ 2.33	2.04	0	9	12	10	8	nw.	Charles Michener.
Wooster	Wayne	1,030	34	48.9	+ 1.1	83	25	20	21	40	3.66	+ 0.96	1.04	T.	11	10	7	13	nw.	Experiment Station.
Youngstown	Mahoning	846	20								1.87	− 0.38	0.60	0	10	15	7	8	n.	J. M. Dickey.
Zanesville	Muskingum	700	26								3.45	+ 0.80	0.75	0	12	15	1	14	nw.	S. G. Sprague.
Indiana.																				
Anderson	Madison	892	18	51.0	+ 0.2	79	22	29	8	36	2.42	− 0.81	0.82	0	7	16	5	9	n.	W. H. Stanton.
Attica	Fountain	522	3								3.14		0.87	0	15					J. Frederic Connell.
Bloomington	Monroe	744	18	52.0	+ 0.8	81	18	31	6	41	5.14	+ 1.90	1.79	0	12	12	9	9	n.	Earl E. Ramsey.
Bluffton	Wells	835	18	49.8	0.0	80	22†	25	7	41	3.01	− 0.07	0.90	0	9	15	2	13	sw.	George R. Rinehart.
Butlerville	Jennings	767	28	53.2	− 0.4	81	23†	30	6	40	5.78	+ 2.25	1.30	T.	14	14	5	11	ne.	C. F. Hole.
Cambridge City	Wayne	941	22	49.8	+ 0.3	80	24	28	6	41	4.61	+ 1.23	1.05	0	13	18	0	12	n.	Heze Barnett.
Columbus	Bartholomew	632	30	52.6	+ 0.3	83	18	30	6	44	5.23	+ 2.19	2.07	0	12	17	0	13	sw.	John A. Perry.
Connersville	Fayette	769	31	53.0	+ 1.9	80	18†	29	6†	41	4.57	+ 1.25	1.58	0	8	14	8	8	sw.	H. T. Swindler.
Crawfordsville	Montgomery	780	3	52.8		83	22	28	6	46	1.79		0.68	0	7	14	5	11	sw.	P. H. Burns.
Delphi	Carroll	668	28	50.8	+ 1.0	82	22	28	6	41	2.43	− 0.85	0.66	0	11	12	3	15		L. A. Higginbotham.
Evansville	Vanderburg	386	37	55.7	− 0.7	83	18	41	5	32	3.19	− 0.27	1.02	0	9	10	8	12	s.	U. S. Weather Bureau.
Farmersburg	Sullivan		15	52.0[e]	0.0	80[b]	22	33[e]	7	36[e]	2.22	− 0.57	0.82	0	9	8	17	5	w.	Miss Carrie Yeager.
Farmland	Randolph	1,101	31	50.1	− 0.1	78	24	28	8	40	3.68	+ 0.38	0.60	0	13	15	1	14	sw	Ralph E. Lyst.
Forest Reserve	Clark	478		54.0		83	18	34	7	43	4.49		1.20	0	15	15	3	12		Ambrose Waltman.
French Lick	Orange	506		54.2		82	18	32	5	38	3.65		1.27	0	14	15	4	11	nw.	U. S. Weather Bureau.
Greenfield	Hancock	905	10	51.6		78	22	30	7†	37	2.45		0.62	0	8	0	18	12	n.	Frank Larrabee.
Greensburg	Decatur	954	17	52.2[a]	− 0.3	78[a]	2†	31[a]	8	39[a]	3.07	− 0.16	0.80	0	12	12	7	11	sw.	C. C. Morrison, M. D.
Hickory Hill	Brown			53.8		82	18	30	1	39	3.98		1.10	0	11	17	2	11		Benjamin W. Douglass.
Huntingburg	Dubois	462	5	51.8		85	17	20	8†	48	3.41		1.15	0	8					H. Dufendach.
Huntington	Huntington	741	20	49.8	− 0.1	79	24	27	7	38	2.47	− 0.42	1.00	T.	8	16	5	9	sw.	Chas. McGrew.
Indianapolis	Marion	822	41	52.0	− 0.4	78	22	31	8	34	3.01	− 0.46	0.83	T.	13	11	7	12	n.	U. S. Weather Bureau
Jeffersonville	Clark	455	31	55.8	0.0	84	18	38	21	36	2.60	− 1.24	0.75	0	14	13	5	12	e.	John C. Loomis.
Judyville	Warren	450	6	50.6		79	17†	23	6	41	2.24		0.82	0	10	15	6	9	ne.	W. A. Hill.
Kokomo	Howard	840	21	50.0	− 1.0	88	22	28	8†	39	2.61	− 0.59	0.86	0	10	14	7	9	sw.	P. H. Robertson.
Lafayette	Tippecanoe	617	34	50.6	+ 0.2	79	22	31	6†	37	2.66	− 0.71	1.26	0	11	18	2	10	sw.	Wm. J. Jones, jr.

TABLE 1.—*Climatological data for April, 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.																				
Logansport	Cass	620	33	52.9[f]	.....	82[i]	23	31[j]	20	44[j]	.....	.....	.....	0	....	14[i]	0[j]	6[j]	.....	Chas. Massena.
Madison	Jefferson	460	21	55.6	+ 0.8	85	18†	33	6	42	4.18	+ 0.95	1.04	0	12	10	12	8	nw.	Miss F. Cooperider.
Marengo	Crawford	363	31	52.6	− 2.8	84	2	22	9	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. M. Johnson.
Marion	Grant	814	27	50.4	− 0.3	80	22†	28	8	40	3.33	+ 0.02	1.17	0	10	19	1	10	e.	James F. Hood.
Mauzy	Rush	980	33	48.8	− 1.3	77	24	27	6†	38	4.09	+ 0.90	1.05	T.	12	15	4	11	n.	Elwood Kirkwood.
Monticello	White	674	3	.....	.....	.....	.....	.....	.....	.....	2.31	.....	0.56	0	10	14	10	6	n.	J. E. Loughry.
Moores Hill	Dearborn	980	12	51.8	+ 1.1	80	18	29	6	35	4.36	+ 0.63	1.38	0	11	14	3	13	nw.	W. S. Bigney.
Mount Vernon	Posey	410	27	55.6	− 0.3	84	18	36	7	39	2.87	− 1.65	0.60	0	12	11	4	15	nw.	Guy B. Green.
Nashville	Brown	.....	....	52.0	.....	80	18	28	6	49	4.65	.....	1.13	T.	12	9	9	12	sw.	W. C. Goble.
Paoli	Orange	611	16	53.4	+ 0.1	81	18	28	5	42	3.36	+ 0.02	0.83	0	12	14	4	12	ne.	James A. Gillum.
Princeton	Gibson	481	31	55.4	+ 1.0	89	18	32	5	38	3.89	+ 0.58	0.98	0	9	16	4	10	nw.	Albert Mills.
Richmond	Wayne	972	28	50.2	+ 0.1	79	23†	29	6†	37	4.07	+ 1.14	1.61	0	12	12	11	7	.....	Walter Vossler.
Rochester	Fulton	775	8	49.4	.....	78	22	27	6	39	3.08	.....	0.94	0	11	13	6	11	.....	G. P. Keith.
Rockville	Parke	722	27	52.8	+ 0.5	82	22	29	6	39	2.84	− 0.65	1.24	T.	13	12	9	9	n.	C. A. Lee.
Rome	Perry	370	10	56.6	+ 0.5	86	18	35	5	43	2.25	− 2.76	0.48	0	14	15	1	14	sw.	Adam Anspach.
Salamonia	Jay	950	8	48.6	.....	79	24	24	7	38	5.58	.....	1.03	0	12	12	9	9	ne.	S. A. Armstrong.
Salem	Washington	717	20	52.7	− 0.3	82	18	31	5†	42	3.07	− 0.25	0.81	0	13	10	8	12	nw.	Emmet S. Allen.
Scottsburg	Scott	570	19	53.8	− 0.8	83	18	35	6†	41	4.12	+ 1.16	1.27	0	9	12[a]	4[a]	13[a]	w.	Frank H. Park.
Seymour	Jackson	610	26	53.6	− 0.3	84	18	31	6	42	4.49	+ 1.06	.....	T.	10	13	8	9	nw.	J. Thomas Hays.
Shelbyville	Shelby	768	9	51.9	.....	80	18†	31	6†	38	3.90	.....	0.87	0	12	12	9	9	sw.	Edgar G. Hodson.
Shoals	Martin	523	6	54.2[a]	.....	81[a]	30	34[a]	5	42[a]	4.76	.....	2.78	0	10	11[a]	3[a]	15[a]	ne.	Rev. G. Halleck Rowe.
Terre Haute	Vigo	498	23	53.4	− 0.6	80	22	35	7	31	2.17	− 1.51	0.99	0	10	8	13	9	n.	U. S. Weather Bureau.
Veedersburg	Fountain	612	14	53.2	+ 1.7	82	18†	27	6	38	2.81	+ 0.19	1.07	0	12	18[a]	6[a]	5[a]	s.	L. A. Culver, jr.
Vevay	Switzerland	525	32	54.3	− 1.1	86	18	35	6†	36	4.80	+ 1.50	1.70	0	10	8	7	15	sw.	Miss Frederica Boerner
Vincennes	Knox	431	21	55.2	+ 0.6	85	18	37	14	39	4.30	+ 0.42	1.20	0	8	12	4	14	n.	Garrett V. List.
Washington	Daviess	484	17	54.6	+ 1.6	82	18	35	5	33	4.70	+ 1.17	1.39	0	13	15	3	12	nw.	Charles C. Feagans.
Whitestown	Boone	529	5	49.8	.....	80	22	30	8	45	4.12	.....	1.11	0	10	9	16	5	nw.	Clyde O. Laughner.
Winona Lake	Kosciusko	865	6	49.8	.....	80	24	26	7†	41	2.90	.....	0.49	0	10	8	15	7	n.	Rev. Albert A. Young.
Worthington	Greene	526	31	54.0	+ 0.2	83	18	32	14	37	4.17	+ 0.65	1.07	0	10	11	9	10	sw.	D. W. Solliday.
Illinois.																				
Albion	Edwards	531	22	55.3	+ 0.2	84	23	34	5	45	3.67	+ 0.06	0.84	0	10	17	3	10	sw.	B. F. Michels.
Casey	Clark	645	10	.....	.....	.....	.....	.....	.....	.....	2.42	− 1.21	0.80	0	8	16	6	8	se.	William Chenoweth.
Charleston	Coles	720	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacob B. Daisy.
Danville	Vermilion	604	12	52.8	+ 0.8	84	22	30	6	42	2.87	+ 0.09	0.95	0	12	16	4	10	n.	J. J. Lemon.
Equality	Gallatin	421	15	57.6[b]	+ 1.2	90	18	38[c]	5†	37[c]	3.07	− 1.29	0.80	0	7	16	4	10	s.	Dr. L. W. Gordon.
Fairfield	Wayne	450	20	55.4	− 0.1	86	18	31	5	42	3.70	+ 0.33	0.85	0	10	15	5	10	nw.	George A. Tromly.
Flora	Clay	495	27	54.6	+ 0.2	85	18	34	5†	40	2.58	− 1.20	0.84	T.	8	14	7	9	ne.	W. L. Hanna.
Golconda	Pope	500	35	57.8	+ 0.1	89	18	37	5	40	3.60	− 0.50	0.82	0	8	16	4	10	nw.	Dr. D. Lawrence.
Hoopeston	Vermilion	715	11	51.1	+ 0.6	83	22	27	6	44	2.51	− 1.47	0.99	0	8	20	3	7	.....	S. F. Hoskinson.
McLeansboro	Hamilton	462	30	54.8	− 0.7	86	18	31	5	40	3.30	− 0.43	1.03	0	9	19	2	9	s.	Prof. W. C. Fairweather.
Metropolis	Massac	346	2	.....	.....	.....	.....	.....	.....	.....	3.20	.....	0.95	0	8	20	3	7	s.	Henry H. Humma.
Montrose	Effingham	599	3	52.1	.....	81	22	31	5	39	2.12	.....	0.79	0	9	11	11	8	n.	J. C. Spitler.
Mount Carmel	Wabash	424	12	54.0	− 0.1	83	18	35[d]	5	36[d]	3.86	− 0.05	1.32	0	11	.....	.....	.....	.....	Mrs. H. M. Phillips.
New Burnside	Johnson	613	18	53.6	− 2.6	81	18	30	5	39	3.43	− 0.93	0.75	0	12	18	1	11	s.	Thomas H. McCabe.
Newton	Jasper	484	2	.....	.....	.....	.....	.....	.....	.....	2.16	.....	0.74	T.	8	16	5	9	.....	J. M. Hicks.
Olney	Richland	486	26	52.6	− 2.2	83	18	33	5†	42	3.23	− 0.52	1.05	0	9	12	13	5	sw.	John T. Ratcliff.
Palestine	Crawford	500	31	54.4	+ 0.3	83	18	35	5	37	2.53	− 1.07	0.67	0	9	14	4	12	n.	Duane Shaw.
Paris	Edgar	600	20	50.9	− 0.3	80	18	30	7	36	2.46	− 1.09	1.10	0	6	5	23	2	sw.	H. P. Twyman.
Philo	Champaign	700	29	51.0	− 0.2	82	22	30	6†	44	2.35	− 1.03	0.85	0	8	16	5	9	ne.	H. A. Burr.
Rileyville	Saline	400	16	.....	.....	.....	.....	.....	.....	.....	2.71	− 0.84	0.60	0	9	16	2	12	n.	W. H. Thornberry.
Shawneetown	Gallatin	307	3	.....	.....	.....	.....	.....	.....	.....	3.90	.....	1.00	0	6	.....	.....	.....	.....	Mrs. Mary O. Spivey.
Tuscola	Douglas	644	20	.....	.....	.....	.....	.....	.....	.....	2.12	− 1.41	0.58	0	10	10	12	8	nw.	Joseph O'Neal.
Urbana	Champaign	751	11	51.3	+ 1.6	80	22	31	6	34	2.19	− 1.68	0.53	T.	9	6	17	7	s.	University of Illinois.
Kentucky.																				
Alpha	Clinton	.....	19	57.6	+ 0.3	82	18†	37	7	35	2.71	− 2.56	0.86	T.	5	15	3	12	w.	W. W. Hicks.
Anchorage	Jefferson	700	12	53.6	+ 0.9	82	18	32	1	41	2.39	− 1.55	0.75	0	12	16	1	13	sw.	C. E. Barrett.
Bardstown	Nelson	637	16	56.5	+ 2.1	85	18	36	1†	41	3.40	− 0.48	1.30	0	12	16	4	10	se.	T. S. Talbott.
Beattyville	Lee	650	9	54.1	+ 0.7	87	25	29	21	50	3.04	− 1.98	0.58	0	10	14	3	13	e.	G. W. Cann.
Beaver Dam	Ohio	441	10	55.6	+ 0.8	85	18	34	1	46	1.58	− 3.04	0.55	0	6	14	7	9	s.	W. T. Austin.
Berea	Madison	1,070	12	55.8	+ 1.3	84	18†	32	7	41	2.34	− 1.25	0.80	0	11	18	2	10	sw.	C. F. Rumold.
Blandville	Ballard	445	32	58.3	+ 1.1	84	18	38	5	32	3.68	− 0.51	1.15	0	9	17	5	8	nw.	E. W. Horr.
Bowling Green	Warren	500	24	57.4	− 0.5	89	18	36	21	48	1.18	− 2.59	0.48	0	7	16	7	7	n.	Mrs. L. G. Causey.
Burnside	Pulaski	775	22	.....	.....	.....	.....	.....	.....	.....	2.05	− 1.90	0.48	0	6	.....	.....	.....	.....	G. M. Estes.
Calhoun	McLean	397	10	57.6	.....	86	18	37	5	37	2.34	− 2.50	0.63	0	11	12	7	11	n.	W. A. Taylor.
Catlettsburg	Boyd	544	24	.....	.....	.....	.....	.....	.....	.....	2.84	− 0.62	0.80	0	10	.....	.....	.....	.....	Mrs. Mertie M. Bruns.
Earlington	Hopkins	370	23	57.3	+ 0.1	88	18	33	5	42	2.77	− 1.55	0.94	0	10	15	2	13	n.	Brick Southworth.
Edmonton	Metcalfe	600	22	56.1[d]	+ 0.3	81[d]	2†	34[d]	2	47[d]	3.29	− 0.81	0.75	0	11	13	3	14	s.	Miss Lee Ray.
Eubank	Pulaski	1,177	19	53.2	− 0.6	82	18	33	1†	46	2.33	− 1.48	0.60	0	10	14	0	16	w.	Mrs. Katie Payne.
Falmouth	Pendleton	530	24	.....	.....	.....	.....	.....	.....	.....	3.69	+ 0.46	0.70	0	13	16	4	10	w.	J. V. Oldham.
Farmers	Rowan	668	6	54.0	.....	84	23†	28	7	46	2.01	.....	0.60	0	6	15	2	13	w.	Lee Craycraft.
Frankfort	Franklin	560	22	55.6	+ 0.5	84	2†	36	6†	44	3.34	+ 0.17	1.45	T.	10	17	3	10	nw.	J. H. Roberts.
Franklin	Simpson	691	19	58.4	− 0.7	86	18	36	5	40	1.61	− 3.00	0.70	0	5	7	18	5	nw.	J. E. Newman.
Greensburg	Green	581	21	55.8	+ 0.8	85	18	31	7†	47	2.52	− 1.14	0.93	0	10	16	0	14	s.	Mrs. Bettie K. H. Alcorn.
High Bridge	Jessamine	762	10	.....	.....	.....	.....	.....	.....	.....	2.66	− 1.59	0.59	0	11	.....	.....	.....	.....	Miss Lulu Wood.
Hopkinsville	Christian	524	17	57.2	+ 0.8	89	18	31	5	46	2.52	− 1.73	1.18	0	9	16	1	13	se.	W. F. Randle.
Irvington	Breckinridge	.....	15	55.6	+ 0.5	82	18	35	5	35	1.88	− 2.43	0.56	0	9	15	2	13	w.	W. J. Piggott.
Leitchfield	Grayson	635	17	55.9	+ 0.9	84	18	34	5	38	1.90	− 2.42	0.67	0	9	15	5	10	nw.	John E. Stone.
Lexington	Fayette	989	25	53.2	− 0.5	81	18	35	21	33	2.41	− 0.93	0.68	0	15	8	10	12	nw.	U. S. Weather Bureau.
Loretto	Marion	681	16	.....	.....	.....	.....	31	21	.....	4.10	+ 0.39	1.25	0	9	14	5	11	.....	Loretto Academy.
Louisa	Lawrence	.....	0	.....	.....	.....	.....	.....	.....	.....	3.19	.....	0.92	0	10	.....	.....	.....	.....	Lucien S. Johnson.
Louisville (1)	Jefferson	525	41	55.4	− 0.8	82	18	39	21	32	2.11	− 1.96	0.73	0	13	12	4	14	s.	U. S. Weather Bureau.
Do. (2)	.....do	.....	3	55.5	.....	84	18	36	7†	38	2.34	.....	0.67	0	9	13	9	8	sw.	W. I. Hunt.
Marion	Crittenden	.....	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. C. Paris.
Maysville	Mason	524	16	53.6	+ 0.3	86	23†	31	21	47	3.05	− 0.45	0.60	0	12	18	4	8	nw.	Mrs. Mary D. Marsh.
Middlesboro	Bell	1,128	18	56.1	− 0.1	83	24†	30	21	45	2.77	− 1.54	0.75	0	12	16	9	5	.....	B. H. Perkins.
Mount Sterling	Montgomery	930	23	53.0	− 0.4	82	23	34	6†	43	2.23	− 1.42	0.47	0	13	14	6	10	s.	James O'Connell.
Owensboro	Daviess	479	16	54.8	+ 0.1	83	18	36	5	34	2.68	− 1.65	0.80	0	10	7	8	15	e.	Henry S. Berry.
Paducah	McCracken	341	24	.....	.....	.....	.....	.....	.....	.....	3.43	− 0.62	1.13	0	12	.....	.....	.....	.....	S. A. Fowler.
Pikeville	Pike	.....	5	.....	.....	.....	.....	.....	.....	.....	2.09	.....	0.65	0	9	.....	.....	.....	.....	I. M. Williams.
Richmond	Madison	926	21	55.0	− 0.2	85	24	35	7†	40	2.39	− 0.84	0.37	0	13	11	5	14	w.	J. W. Crooke.
St. John	Hardin	777	17	54.7	+ 0.1	84	18	33	5	39	2.25	− 1.74	0.69	0	12	17	0	13	.....	Bethlehem Academy.
Scott	Kenton	.....	15	53.4	+ 0.7	83	18	31	8	35	4.10	+ 0.87	1.40	0	11	12	7	11	n.	E. B. Wilson.

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

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
***Kentucky*—Continued.**																				
Shelby City	Boyle	1,087	19								2.56	− 1.15		0						H. F. Ewing.
Shelbyville	Shelby	759	24	55.3	+ 0.4	84	18	27	6	40	4.04	+ 1.01	0.86	0	11	18	1	11	sw.	C. R. Burnett.
Taylorsville	Spencer	489	11	54.4	+ 0.2	83	18	35	21	40	2.82	− 2.41	0.86	0	12	12	6	12	n.	E. D. Bourne.
Williamsburg	Whitley	939	17	54.1	− 1.3	82	2†	32	7	45	4.32	+ 0.59	1.15	T.	10	15	1	14	w.	Noble C. Jones.
Williamstown	Grant	943	11	51.8	+ 0.2	83	18	30	13	44	3.54	+ 0.10	1.13	0	12	16	4	10		Miss Rose Carter.
Tennessee.																				
Ashwood	Maury	725	40	58.6	+ 0.3	89	19	35	5†	43	1.67	− 3.08	0.87	0	5	13	4	13	s.	Mrs. Joseph W. Fleming.
Benton	Polk	880	29	58.4	− 1.0	83	3†	33	6	44	2.09	− 2.05	0.72	0	7	15	6	9	n.	George L. Williams.
Birds Bridge	Greene		7								2.32		0.95	0	5	20	1	9	w.	David B. George.
Bluff City	Sullivan		18								3.07	− 0.06	1.54	0	7	12	3	15	e.	Walter C. Masengill.
Byrdstown	Pickett	1,026	21	58.4	+ 2.0	84	18†	38	6†	40	2.28	− 2.26	0.78	0	6	7	11	12	n.	John Lacy.
Carthage	Smith	500	30	59.0	+ 0.4	86	18	37	6	41	2.13	− 2.06	0.71	0	10	18	0	12	se.	Earl C. Pickering.
Cedar Hill	Robertson	625	15	57.8	+ 0.2	89	18	36	7†	39	1.32	− 3.33	0.70	0	11	16	4	10	s.	J. Frank Ruffin.
Celina	Clay	494	10								2.00	− 2.49	0.65	0	7	15	2	13	n.	Charles M. Anderson.
Charleston	Bradley	709	29								2.12	− 2.37	0.50	0	8	17	3	10	n.	John T. Weeks.
Chattanooga	Hamilton	808	34	59.5	− 0.5	83	18	42	28	34	1.58	− 2.81	0.83	0	7	11	7	12	nw.	U. S. Weather Bureau.
Clarksville	Montgomery	500	53	58.4	+ 0.7	89	18	37	5	43	2.06	− 2.63	0.90	0	12	16	3	11	n.	Prof. James A. Lyon.
Clinton	Anderson	800	29								2.15	− 2.10	0.50	0	8	16	1	13	sw.	H. C. Slover.
Crossville	Cumberland	1,895	1								2.48			0	7					J. E. Converse.
Dandridge	Jefferson		8								3.64		1.50	0	7	14	3	13	e.	James E. Swann.
Decatur	Meigs	850	18	57.9	+ 0.1	88	18	32	6	49	1.42	− 3.61	0.60	0	8	16	4	10	sw.	J. Worth Lillard.
Dickson	Dickson	800	20	58.0	+ 0.2	86	18	35	6	41	2.33	− 2.58	1.10	0	5	15	8	7	n.	Nathan R. Sugg.
Dover	Stewart	500	17	59.2	+ 0.8	89	18	34	25	41	4.07	+ 0.23	1.39	0	6	16	4	10	s.	Asa M. Tippit.
Dunlap	Sequatchie	726	4	58.4		87	18	34	6	47	1.14		0.45	0	5	12	11	7		S. Bradford Boyd.
Elizabethton	Carter	1,575	22								3.25	− 0.13	1.00		10	14	0	16	w.	Charles Boyd.
Erasmus	Cumberland	1,850	16	53.8	+ 1.2	83	18	31	1†	44	2.13	− 3.34	0.84	T.	8	14	7	9	se.	Mrs. Sarah E. Ashley.
Florence	Rutherford	560	31	58.5	− 0.4	82	18	37	6	34	2.45	− 1.69	1.10	0	7	19	4	7	s.	Erastus P. Bell.
Franklin	Williamson	648	25	58.6	+ 0.7	82	18	37	6	35	1.91	− 3.10	0.72	0	4	15	7	8		Young M. Rizer.
Halls Hill	Rutherford		10								2.32	− 2.70	0.78	0	7	14	3	13	s.	Edward F. Wright.
Hohenwald	Lewis	983	30	60.7	+ 2.5	85	18	33	13	38	2.94	− 1.75	1.15	0	8	17	6	7	nw.	Mrs. Mary Lutzelman.
Iron City	Lawrence	600	18	58.8	+ 0.1	88	18	31	28	48	1.90	− 3.02	1.00	0	4	11	16	3	nw.	Capt. H. Paul Seavy.
Jefferson City	Jefferson		3								1.94		0.55	0	12					Calvin C. Maddox.
Johnson City	Washington	1,620	20	54.2	− 0.7	88	25	30	7	45	2.49	− 1.20	0.73	0	7	19	5	6	w.	Ward Crosby.
Johnsonville	Humphreys	364	29	59.9	+ 1.3	89	18	36	6†	46	4.17	− 0.43	1.50	0	8	11	7	12	s.	Miss Sallie B. Mathews.
Kingston	Roane		29								1.35	− 2.83	0.38		8	17	0	13	n.	Henry Crumbliss.
Knoxville	Knox	977	42	57.4	0.0	84	18	38	28	38	2.00	− 2.64	0.94	0	8	10	7	13	sw.	U. S. Weather Bureau.
Lebanon	Wilson	522	4	58.9		85	18	37	6†	38	3.00		0.79	0	10	11	6	13	n.	H. Logan Fields.
Lewisburg	Marshall	727	19	58.2	+ 0.2	86	18	35	6	42	2.50	− 1.59	0.93	0	8	14	7	9	nw.	Dr. Robert D. Crutcher.
Liberty	Dekalb	672	16								2.56		0.65	0	7	14	0	16		Bratten Evans.
Loudon	Loudon	816	22								2.38	− 1.79	0.91		8	18	1	11	w.	Robert W. Clark.
Lynnville	Giles	770	26	57.9	− 0.2	82	18	36	6	40	2.19	− 2.54	0.87	0	7	15	9	6	s.	Col. James H. Burrow.
McGhee	Monroe		8								2.45		0.75	0	7	20	1	9	s.	Miss Alice L. Headrick.
McMinnville	Warren	1,011	32	58.8	+ 0.9	85	18	34	6	43	2.81	− 2.34	0.84	0	8	17	7	6	n.	Horace H. Stiles.
Maryville	Blount	1,050	20																	Mrs. Sam T. Broyles.
Mountain City	Johnson	2,486	16	51.8	+ 1.6	81	24	23	21	49	2.77	− 0.88	0.79	T.	11	16	7	7		Edward E. Barry.
Nashville	Davidson	654	42	58.6	− 0.5	85	18	39	28	33	1.65	− 2.71	0.63	0	9	14	2	14	nw.	U. S. Weather Bureau.
Newport	Cocke	1,280	23	55.7	− 1.0	82	3	36	7	36	3.23	− 0.36	1.20	0	6	13	3	14	w.	Dr. Charles T. Burnett.
New River	Scott	1,215	5								2.94		0.57	0	8	16	2	12	nw.	Burl W. Buttram.
Palmetto	Bedford	770	23	58.6	− 0.3	85	18	34	28	38	2.93	− 1.44	1.31	0	8	15	5	10	n.	Mrs. Ross Woods.
Perryville	Decatur	387	17	59.6		85	18	35	15	42	4.25	+ 0.32	1.87	0	6	17	1	12	n.	Oliver C. Kirksey.
Pinewood	Hickman		7	59.4		90	18	32	6	55	2.19			0						Miss Carrie Cash.
Rogersville	Hawkins	1,150	29	56.2	+ 0.3	83	18†	34	6†	44	1.97	− 1.59	0.79	0	9	14	8	8	w.	Fred Beal.
Rugby	Morgan	1,410	24	54.2	− 0.2	85	18	29	6	51	2.83	− 1.81	0.80	0	7	10	6	14	sw.	Samuel G. Wilson.
Savannah	Hardin	442	30	60.2	− 0.2	87	18	37	6†	43	5.32	+ 1.06	1.62	0	7	14	6	10	n.	W. H. Carrington.
Sevierville	Sevier		7	56.8	+ 1.2	84	18†	33	6†	46	2.43	− 2.02	0.45	0	11	7	6	17	sw.	Herbert O. Eckel.
Sewanee	Franklin	2,000	19	52.8	− 2.8	80	22	34	5†	25	1.24	− 3.21	0.53	0	6	13	4	13	n.	University of the South.
Sparta	White	920	7	58.0		86	18	34	6	46	2.00		1.00	0	6	12	9	9	w.	Ernest H. Hull.
Springville	Henry	377	11	58.2	+ 0.2	83	2	34	5	43	4.38	− 0.99	2.03	0	10	17	7	6	s.	Hudnall A. Boden.
Tazewell	Claiborne	1,350	16	53.2	− 3.3	83	25	29	7	48	1.82	− 2.13	0.60	0	9	11	5	14	nw.	J. Caloway Carr.
Tullahoma	Coffee	1,075	26	57.8	+ 0.5	83	18	34	6	39	2.74	− 1.91	1.03	0	9	12	13	5	n.	Reuben T. Moore.
Walling	White	909	9								2.10		0.84	0	9	13	3	14	s.	John K. Roberts.
Waynesboro	Wayne	753	28	58.4	+ 0.2	85	18	32	28	43	3.37	− 0.86	1.50	0	11	12	9	9	n.	Harry C. Boyd.
Wildersville	Henderson	400	17	58.0	− 0.5	83	17†	35	26	43	5.53	+ 1.40	2.00	0	6	15	7	8	n.	William R. Wilson.
Worsham	Sumner	550	11								2.36	− 2.21	0.79	0	7	16	4	10	w.	James G. Elizer.
Yukon	Lincoln	850	17	58.0	− 0.9	81	19	35	28	34	1.74	− 2.69	0.51	0	5	15	10	5	n.	William P. Watson.
Alabama.																				
Bridgeport	Jackson	660	13								2.15	− 2.00	0.99	0	9					R. L. Moore.
Decatur	Morgan	573	31	59.8	− 1.9	86	21	37	6	39	1.58	− 2.66	0.56	0	8					Earnest A. Carriger.
Florence	Lauderdale	563	29	58.2	− 2.8	87	18	35	28	47	2.64	− 1.81	1.47	0	6					Robt. E. Coburn.
Guntersville	Marshall	580	3								1.97		0.60	0	8					L. S. Long.
Madison	Madison	573	19	60.7	+ 0.1	86	18	38	28	38	1.60	− 2.51	1.10	0	2					Edward Humphrey.
Riverton	Colbert	360	16	57.8	− 0.8	86	18	31	28	47	3.13	− 1.13	1.26	0	8					J. F. Long.
Scottsboro	Jackson	652	30	59.0	− 1.1	84	18†	35	28	37	1.72	− 2.82	0.81	0	7	15	4	11	w.	H. A. Caldwell.
Tuscumbia	Colbert	488	31	60.2	− 0.8	85	18	39	28	36	1.99	− 2.49	1.15	0	6					Samuel Moore.
Georgia.																				
Diamond	Gilmer	2,020	21	55.9	− 1.0	87	18†	34	22	44	0.58	− 4.66	0.20	T.	6	15	8	7		R. A. Kimzey.
North Carolina.																				
Altapass	Mitchell	2,629		52.1		75	18	23	21	44	3.27		1.98	1.2	5	22	2	6	n.	Altapass Inn.
Andrews	Cherokee	1,800	3	55.9		84	18†	32	6†	48	0.72		0.23	0	10	17	5	8	sw.	J. D. Link.
Asheville	Buncombe	2,255	34	52.8	− 1.1	80	24	33	14	39	3.24	− 0.80	1.21	T.	10	12	5	13	nw.	U. S. Weather Bureau.
Banners Elk	Avery	3,750	5	46.6		77	24	21	21	44	4.42		2.00	5.0	9	15	1	14	w.	T. L. Lowe.
Blantyre	Transylvania	1,900	1	52.8		80	24	26	21	49	2.06		0.90	0.4	5	14	11	5		R. W. Collett.
Blowing Rock	Watauga	4,090	4	47.2		73	24	28	8	32	6.32		3.78	3.0	9	13	9	8		E. G. Underdown.
Bryson City	Swain	2,000	25								1.29	− 3.16	0.43	0	6					D. K. Collins.
Cullowhee	Jackson	2,100	3	54.4		82	24	27	6	50	1.57		0.92	T.	4	15	3	12		Frank H. Brown.

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

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
North Carolina—Contd.																				
Hendersonville	Henderson	2,167	16	53.6[d]	− 0.5	79	24	32	21	42	2.93	− 1.39	2.04	0	9				nw.	Dr. L. B. Morse.
Highlands	Macon	3,850	23	49.0	− 0.5	72	19†	27	22	39	4.89	− 1.61	3.85	6.0	4	14	10	6	nw.	T. G. Harbison.
Hot Springs	Madison	1,326	15	56.1	− 0.8	82	2†	34	6†	43	2.98		0.81	0	9	17	4	9	w.	P. A. Garner.
Jefferson	Ashe	2,900	6	50.2		81	24	24	22	50	4.29		1.22	T.	12	10	2	18	w.	Prof. E. J. Johnston.
Marshall	Madison	1,646	11	54.0	− 0.3	81	25	31	21	42	2.68	− 0.94	0.72	0	9	13	4	13	w.	M. L. Church.
Murphy	Cherokee	1,614	37								0.86	− 4.17	0.22	0	10					Miss Victoria Mingus.
Rock House	Macon	3,100	21																	Barry C. Hawkins.
Transon	Ashe	2,600	1	49.6		78	24	23	21	43	5.37		2.00	1.0	10	16	9	5		S. M. Transon.
Waynesville	Haywood	2,792	19	52.3	− 0.4	81	24	31	6	42	2.72	− 1.29	0.75	T.	7	11	7	12	sw.	Mrs. Chas. E. Quinlan.
Virginia.																				
Blacksburg	Montgomery	2,170	22	51.0	+ 0.8	83	24	24	21	44	2.82	− 0.11	1.45	0	12	16	9	5	w	Agricultural Experiment Sta.
Burkes Garden	Tazewell	3,250	18	46.6	− 0.8	76	24	20	21	41	2.88	− 1.00	1.17	1.0	10	13	3	14	w.	C. H. Greever.
Elk Knob	Lee	3,243	10	54.4	+ 0.5	79	23†	34	15	33	1.74	− 2.94	0.49	0	10	13	10	7	nw.	Henry Nicoll.
Ivanhoe	Wythe	2,028	9	51.4		78	23†	32	7†	34	3.64		1.58	0	10	17	4	9	w.	Miss Alice G. Jewett.
Lebanon	Russell	2,131	3	51.6		86	25	27	7	44	2.71		0.50	0	10	15	3	12	ne.	M. E. Hunter.
Max Meadows	Wythe	2,028	17	51.3	0.0	82	23†	24	21	47	2.99	− 0.29	1.30	T.	6	15	8	7	w.	James M. Graham.
Mendota	Washington	1,350	4								2.76		0.68	0	9					Frank M. Barker.
Mountain Lake	Giles	4,348	3			78	26				3.51		1.80	0.1	6	15	7	8	n.	H. E. Dorland.
Radford	Montgomery	1,773	4								2.37		1.25	0	5					Arthur Roberts.
Speers Ferry	Scott	1,221	17								1.68	− 2.05	0.50	T.	9					Miss L. E. Venable.
Wytheville	Wythe	2,293	20	51.3	− 0.7	81	24	27	21	40	3.13	− 0.53	1.43	1.0	11	14	7	9	nw.	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 April, 1913. District No. 3, Ohio Valley.*

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	
New York.																																
Allegany	Allegany		.16	.29	.29	.30	.13	T.			.10	.20	.05			.06			T.	.03			.04	.51			.05	1.90	1.44	.12		5.67
Bolivar	do			.32	.18	.18	.20				T.												.14	.50				1.72	1.12			4.36
Olean‖	do	.03		.12	.16	.30	.10	T.				.29												.30	.05			.98	1.40	.10		3.77
Pennsylvania.																																
Aleppo	Ohio	.05	.06			.08		T.				.57		.15		.09	.05											.78	.22			2.05
Baldwin	Allegheny	T.		T.	.18	T.	T.				T.	.60		.08	.17													.76	.38	.05		2.22
Beaver Dam‖	Ohio	.04		.27	.01	.15	T.				.01	.35	.09	.03	.40	.05	.03											.53	.12	.18		2.26
Beaver Falls‖	do	.01		.18	T.	.18	T.	T.			T.	.30	.04	.01	.53	.02	T.											.58	.11	.18		2.14
Brookville	Allegheny				.14	.20					.01	.55	.02	.04	.26	.03	.13			.03								1.00	.24	.25		2.90
California	Monongahela		.88	.15		.01						.60		.17	.11	T.	.16											.60	.24	.21		3.13
Cheat Haven	do	T.	.26			T.		T.			.02	.53	.01	.08	.20	.15	T.											.78	.18	.26		2.47
Clarion‖	Allegheny			.10		.15	.20				.10	.45	.10	T.	.70					.15								.45	.20	.25		2.85
Claysville	Ohio	T.	.95	.11	.01	.20					.10	.53	T.	.20	.03	.08	.02											.35	.45	.25		3.28
Confluence‖	Youghiogheny	T.	T.	.40		T.					T.	.16	.45	.55	.22	.25	.22											.60	.08	.35	T.	3.28
Coraopolis‖	Ohio	.06		.30	.01	.20	T.	T.			T.	.44	.12	.02	.28	.03	.06											.62	.15	.25		2.54
Davis Island Dam‖	do	.04	T.	.29	.03	.12	T.	T.			T.	.40	.14	.07	.29	.03	.08											.70	.15	.24		2.58
Derry Station	Allegheny		.14	.02		.08	T.					.55			.42	.09										.04	.52		.56	.14		2.56
Ellwood City‖	Ohio	.03		.10	.03	.18	.01	T.			.02	.38	.04	.02	.31		.04			.09								.68	.11	.24		2.28
Franklin‖	Allegheny	.05		.17	.02	.44	.04	T.		.03	.46	T.			.59					.02								.35	.20	.28		2.65
Freeport‖	do	T.		.17	T.	.10	T.	T.			T.	.40	.22	.21	.32	.04	.04			T.								.60	.12	.32		2.63
Greensboro‖	Monongahela	.10		.44		.06	.04					.10	.48	.04	.10	.20				.10								.40	.06	.52		2.64
Greensburg	Youghiogheny	T.	.25		T.	T.	.02	T.			T.	.53		.05	.07	.09	.02										T.	.56	.38	.17		2.14
Greenville	Ohio		.22	T.	.12	T.	T.				.23	.23		T.	.18	.02			.04	.04								.63	.35	.04		2.10
Grove City	do		.11	.10	.56	.01	T.				.66	.36		T.	.34	T.	T.			T.								.20	.24	.11		2.69
Herrs Island Dam‖	Allegheny	.04	T.	.26	.01	.12	T.	T.			T.	.31	.18	.05	.57	.04	.05											.60	.16	.22		2.61
Indiana	do			.15		.17						.60		.10	.15	.05	.05											.65	.45	.15		2.52
Irwin	Monongahela	.02	.27	T.	.06	.04					T.	.52		.11	.04	.05	T.											.78	.43	.10		2.42
Johnstown	Allegheny	.07	.12	.03	.13	.01	T.	.03			.02	.46	.05	.14	.14	.16				T.				T.				.72	.06	.30		2.44
Lock No. 4‖	Monongahela	.07		.96		.03					T.	.24	.35	.16	.08	T.	.05											.72	.12	.30		3.08
Lycippus	Allegheny	T.	.39	.04		.09	T.				T.	.70		.25	.17	.12	.01											.67	.54	.28		3.16
Mosgrove	do	.03		.25	T.	.15	.03	.02				.30	.20	.03	.97	T.	T.			.01								.29	.09	.35		2.72
Parkers Landing‖	do	.02		.32	.01	.22	.02	.01			.01	.22	.12	.01	.30		.14											.34	.12	.24		2.10
Pittsburgh	Ohio	T.	.28	T.	.18	T.	T.				.25	.23	T.	.43	.02	.07											.48	.24	.29	.06		2.53
Ridgway	Allegheny			.10	.18		.03				.08	.34		.02	.24	.03				.09								1.13	.43	.05		2.72
Saegerstown	do			.25	.13		.06				.19	.40		.44	.44				.02	.10	.01			.01				.80	.29	.07		3.21
Saltsburg‖	do	.15		.16	.02	.11	T.	T.				.13	.44	.03	.19	.08	.08			T.				T.				.40	.20	.39		2.38
Sharon‖	Ohio		T.	.27	.05	.10	T.	T.			.01	.44	T.		.39	T.				.02				T.				.44	.08	.29		2.09
Somerset	Youghiogheny		.45	.34		.02						.52			.46	.48												.38	.30	.10		3.05
Springdale‖	Allegheny	.05		.20	.03	.25						.27	.28	.20	.78	.05	.10											.67	.14	.24		3.26
Uniontown	Monongahela		.71			.04	T.					.06	.58	.14	.07	.10	.05			.03								.80	.23	.24		3.05
Warren	Allegheny			.90	.20	.10	.30				.26				.10					.18				.08			.20	1.15	.70			4.17
West Newton‖	Youghiogheny	.10		.80			T.				.03	.05	.52	.03	.20	.04	.04											.67	.22	.40		3.10
Maryland.																																
Deer Park	Youghiogheny		.31				.09				.07	.39		.58	.50	.20	.05			.07								.60	.12	.08		3.06
Grantsville	do		.83								.10	.37		.56	.10	.46				.17								.38	.05			3.02
Oakland	do	.08	.14			T.	.04				.15	.41		.62	.30	.14	.05			.08								.61	.09	.15		2.86
West Virginia.																																
Bancroft‖	Great Kanawha											.08	.55	.31		.53	.07			.40								.33	.14	.34		2.75
Beckley	do							.50				.80			.26												.98				2.54
Bens Run	Ohio				.09					.10	.26	.86		.28	.04												.29	.45	.32	.13		2.82
Bluefield	Great Kanawha								.30			.45	.30		.45	.15	.15												.50	.04		2.34
Brandonville‖	Monongahela			.45		.09							.65	.22	.37	T.				.14								1.06	.20	.20		3.38
Buckhannon	do		T.			.18				T.	.18	.40	.17	.12	.12	.80				.33							.12	.67				3.09
Cairo	Little Kanawha	.06				.24				.06	.21	.76	.08	.27	.05	.18	.12			.05								.62	.08	.30		3.08
Central Station	M'dle Is. C'k	T.	T.		.05	T.				.05	.15	.43		.08	.11	.25	T.			T.							.10	.43	.15	.19		1.99
Charleston‖	Great Kanawha										.10	.06	.18	.50		.42	.05			.38								.42	.08	.30	.03	2.52
Cheat Bridge‖	Monongahela	.16				.35	T.	.16			.12	.12	.05	.30	T.	.95	.24	T.		T.								1.06	.20	.30	T.	4.01
Cortland‖	do											.70		.53	.15	.41	.30			.30								.64	.32			3.35
Creston‖	Little Kanawha					.14	.03				.21	.29	.51	.16	T.	.30	.23			.41								.56	.05	.30		3.19
Cuba	Sand Creek	T.	T.		.09					.30	.02	.56		.31	.05	.19	T.			.24							.04		.38	.28		2.46
Davis‖	Monongahela	.07		.05		.25	.10	T.			.22	.04	.33	.53	.08	.36	.30			.43								.75	.02	.26		3.79
Doane	Big Sandy																															
Elizabeth‖	Little Kanawha					.16					.18	.28	.38			.20	.09	.01		.02								.46	.05	.34		2.17
Elkhorn	Big Sandy							.15				.60	.15	.15	.35	.12				T.							.68	.12	.14	T.		2.46
Elkins	Monongahela	T.	T.		.17	.04	T.			.04	.02	.35	.22	.29	.10	.60	.07		.02	.40							.62	.52	.26	.03		3.75
Fairmont‖	do	.05		.04		.05	T.				.10	.14	.52	.06	.03	.05	T.			.01								.66	.07	.32		2.10
Glenville‖	Little Kanawha					.58						.04	.48			1.18				.78								.72		.32		4.10
Grafton	Monongahela					.33				.03	.15	.45			.10	.14												.90	.10	.20		2.40
Green Sulphur Springs.	Great Kanawha					.09			T.				.19	.26	.41	*	.08			.04							.11	.37		.06		1.61
Hinton‖	do					.02							.72	.30		.20	.12			T.								.44	.04	.06		1.90
Holcomb	do	.22				.18				.12		*	.71	.15	*	1.23				.40							*	.95	*	.37		4.33
Huntington‖	Ohio				T.					.06	.16	.30	.34			.10	.54											.62	.08	.28		2.48
Lewisburg	Great Kanawha									T.		1.40			.77	.14				T.							.60		.13			3.04
Logan	Guyandotte				.08	.03					T.	.60			.40	1.30	.10									.27			.04	.28		3.10
Lost Creek	Monongahela	T.	T.		.25	T.				T.	.06	.51		T.		.49				.12							.15	.54	.16	.18		2.46
Madison	Great Kanawha		T.			.12	T.			T.		T.	.51	.28		1.26	.18			.17											.02	2.54
Mannington	Monongahela	.03	.01			.05	T.			.07	.18	.57	T.	.13	T.	.07				.03							.08	.72	.16	.23		2.33
Marlinton	Great Kanawha						.10					1.30	.50	.60		.75											.30	.20				3.75
Morgantown	Monongahela	.02	.08		.72	.04					T.	.68		.06	.09	.10	.01			.02							T.	.80	.15			2.77
Moundsville	Ohio	T.	.04			.15	T.				.09	.50	T.	.23	T.	.04	T.											.40	.37	.32		2.14
New Cumberland	do	.50	T.	.20		T.					.20	.30		.20	T.	T.											T.	.60	.40			2.40
New Martinsville	do				.15						.80	.42		.22	.03													.64	.31	.17		2.74
Nuttallburg	Great Kanawha									T.		.82		T.	1.85	T.				.27								.83				3.77
Osceola‖	Monongahela																															
Parkersburg	Ohio	T.	.01	T.	.09	.02				.19	.01	.52		.26	.02	.09			T.	T.							.26	.02	.30	.02		1.81
Parsons	Monongahela	.02	.06			.05	.01				.10	*	*	*	*	1.47											.15	1.00	.20	.12		3.18
Philippi	Monongahela	.02	.03			.28				.05	.17	.36			.18	.34	T.			.56								.92	.10	.18		3.19
Pickens	do				.97	1.28	T.			.12		.55			.20	.58	.11			.18							.11	.95	.23	.20		5.48
Point Pleasant‖	Ohio									T.	.40	.50	.16	.28		.28	.26			.40								.54	.02	.36		3.20
Poweliton	Great Kanawha				.03	.04				.03		.50		T.	.43	1.96	.05			.30							.22	.39	.05	.17		4.17
Princeton	do							.10				1.50	1.00		.30	.15											1.00	.10	.10			4.25
Robertsburg‖	do					.24				.05	.15	.13	.40	.26		.45	.07			.40								.35	.05	.35		2.90
Rowlesburg‖	Monongahela	.22		.02		.10					.04	.06	.30	.36		.06	.02			.12								.84	.10	.24	.02	2.50
Ryan	Great Kanawha	.02			.01					.32	T.	.60		.45	.15	.46	.05			.43							.25	.10	.15	.08		3.07
St. Marys‖	Ohio			T.	.15						.36	.38	.13	.05				.05										1.25	.10	.32		2.79

TABLE 2.—*Daily precipitation for April, 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	Total.
West Virginia—Con.																																
Smithfield ‖	Fishing Creek	.04	T.				T.		.38		.17				.07													.76	.82	T.		2.24
Spencer ‖	Little Kanawha				.25						.22	.10	.54	T.	.08	.49	.20			.32								.51	T.	.30		2.92
Sutton	Great Kanawha											T.				.99	.10			.30								.77	T.	.31		2.47
Terra Alta	Monongahela																															
Union ‖	Great Kanawha								T.			T.	1.04		1.38	.40	.26											.60		.37		4.05
Valley Fork	do																															
Webster Springs	do	.23				.15	.10			T.	T.	.35	.30	.26	.20	.97				.60							.35	.68	.32	.30		4.81
Wellsburg	Ohio		1.20		.18						.15	.34		.29	.02	.22											T.	.58	.43			3.41
Weston ‖	Monongahela																															
Wheeling ‖	Ohio	.07		.23	.03	.16					.05	.31	.15	.07	.08	.03	.06											.56	.12	.43		2.36
Williamson ‖	Big Sandy					.14				.02	.02	T.	.42			.92	.52											.38		.20		2.62
Ohio.																																
Amesville	Ohio	.04	.20	T.	.30					.36	.11	.52		.20	T.												.13	.25	.14	.13		2.38
Ashland	Muskingum	T.	.74	.03	.50	T.		T.			.23	.14		.23	.16	.01											.37	.38	.65	.02		3.46
Bangorville	do		.43	1.10	.03				.09	.41	.20			1.14	.14	T.											.42	.15	.56	.04		4.71
Bellefontaine ‖	Great Miami	.04		.26	.59	.24				.02	.61	.59		.72	.49												.04	.60	.07	.51		4.87
Bladensburg	Muskingum		.17	.03	.51	.02				.06	.32			.75	T.	.05											.49	.16	.12			2.68
Brilliant	Ohio	T.	1.00	T.	.25	.15					T.	.65			.50	T.													.25	.71		3.51
Cadiz	do		T.	.02	.36	T.				T.	.05	.50		.11	.40												.05	.50	.37			2.56
Cambridge	Muskingum			*	.52					T.	.31	.30		.19													.35	.45				2.12
Camp Dennison	Ohio		T.	.42	.27					1.41	.40	.62		.23	.09					.03							.49	.10	.29	.01		4.33
Canal Dover	Muskingum		1.20	T.	.35						.26			.34													.22	.32	.42			3.11
Canton ‖	do	.06		.45	.26	.22					.05	.52		.18	.30	.02												.80	.21	.40		3.47
Cardington	Scioto		.30	T.	1.07					.15				.87													.54	.69				3.62
Chillicothe ‖	do			.09	.10								.87		.70	.06												.70		.32		2.84
Cincinnati	Ohio			.65	.04				.22	1.01	.91		.04	.14	.01					.05							.49		.28			3.84
Circleville	Scioto	T.			.72	.17				T.	.59	.38		.57	.11	.02											.11	.60	.16	.29		3.72
Clarington	do			T.	.20	T.				.05	.20	.50		.20	.15	T.				T.							T.	.60	.30	.25		2.45
Columbus	Scioto		.02	.82	.22	T.				.38	.51	.04		.70		T.				.02							.77	.02	.49	.01		3.91
Coshocton ‖	Muskingum																															
Dayton (1)	Great Miami		.06	1.75	.03					.82	.60		.08	.72						T.						T.	.37	T.	.35			4.78
Dayton (2)	do	.03	.10	.43	1.25					.83	.52	.24	T.	1.00	.02											T.	.45	T.	.42	.02		5.31
Delaware	Scioto		T.	.20	1.22					.38	.42	.22		.68						T.							.67	.20	.47	.16		4.62
Demos	Ohio		.12	.01	.29	T.				.04	.16	.49		.32	.02	.04											.18	.37	.41	.18		2.63
Dennison	Muskingum																															
Frankfort	Scioto			.15	.55					.65	.20	.25		.80	T.	T.											.38	T.	.25	.20		3.43
Gallipolis ‖	Ohio	.05				.10				T.	.26	.50	.17	.14		.22	.21			.37								.52	T.	.34		2.88
Garrettsville	Mahoning		.34	.07	.27	.03					.38	.31		.07	.10	.05			.02								.23	.52	.48	.09		2.96
Granville	Muskingum	.11		.03	1.24	.11	T.		T.	T.	.37	.49	T.	.32	.18	.04				T.							T.	.76	.05	.16		3.86
Gratiot	do		.04	.07	.51	.03				.12	.28	.25		.35		.12											.54	.24	.23	.06		2.84
Green	Ohio				.13						.75	T.		T.	.10	.26	T.		.39								.64		T.	.22		2.49
Green Hill	Muskingum		.38	.02	.21	T.	T.			T.	.37	.24		.07	T.	.15				T.							.25	.26	.32	T.		2.27
Greenville	Great Miami	.02	.01	.25	1.15	.04				.16	.65	.42		.10	.32												.43	.03	.11	.29		3.98
Hamilton ‖	do					2.33				1.44		.39			.41												.40	.15		.38		5.50
Haydenville	Ohio		.38							.65		.45		.34													.53	.23	.25			2.98
Hillsboro	Scioto																															
Ironton	Ohio				.17					.25	.02	.70		.03	.02	.11	.19			.57							1.04	.07	.18	.19		3.54
Kenton	Scioto		.22	T.	.80					.15	.32	.36		.25	.20												.60		.58			3.48
Killbuck	Muskingum		.40	.08	.60				.05	.32				1.17			T.										.15	.32	.20			3.29
Kings Mills ‖	Little Miami				1.10	.09				.19	.98	.84		.21	.16					.01							.22	.24	.03	.34		4.41
Lancaster	Ohio		T.	.43	.21	T.				.48	.17	.20		.85		T.				T.							.61	.11	.30	T.		3.36
McConnellsville	Muskingum	T.	T.		.36					.09	.12	.46		.30	.09	T.				T.							.49	.05	.32			2.28
Marietta	Ohio																															
Marion	Scioto		.30	.06	.87					.18	.50	.18		.65	.10												.68	.12	.75			4.39
Milfordton	Muskingum		.38	.10	1.00					.05	.35	.18		.30													.38	.12	.30	.05		3.21
Milligan	do	T.		.33	.33	T.				.10	.20	.26			T.												.57	.29	.23	.08		2.39
Millport	Ohio		.37		.17						.38	.29		.06	.02	.20											.03	.51	.22	.03		2.28
Nellie	Muskingum		.43	.05	.37							.35		.97		.07							.55						.20	.25		3.24
New Berlin	do		.24	.20	.30	.02					.33	.20		.50	.03												.46		.46	.08		2.82
New Waterford	Ohio		.20	T.	.33							.70		*	.22					.14								*	*	.82		2.41
O. S. University	Scioto		.04	.31	.80					.46	.44	.33		.74	.01												.65	.09	.39	.01		4.27
Oregonia ‖	Little Miami																															
Pataskala	Muskingum	T.	.01	.68	.28	.03				.40	.40	.18		.46	.01	.04				.01							.53	.10	.24			3.37
Peebles	Ohio			.30	.43	.03				.42	.22	.37		.05	.04	.05				.28							.56	.26	.46	.13		3.60
Philo (1)	Muskingum			.28	.41					.15	.18	.26		.30													.26	.38	.33			2.55
Piqua ‖	Great Miami				2.00	.05				.12	.60	.41		.15	.52												.37	.15	.33			4.70
Plattsburg	do		T.	.22	.98					.33	.56	.32		.90	.06					T.							.45		.36	T.		4.18
Portsmouth ‖	Ohio																															
Prospect ‖	Scioto																															
Sidney	Great Miami		.22	.10	1.08					.60	.42	.26		.52	.09												.51	.01	.37			4.18
Somerset	Muskingum	.12	T.		.55	.09	T.				.38	.45		.25	.05	.13	.03			T.								.58	.06	.14		2.83
Springfield	Great Miami		.07	.17	1.53	T.				.67	.47	.41		1.06						T.							.49		.49			5.36
Summerfield	Ohio		T.	.07	.48					.08	.22	.45		.14	.01	.02											.29	.50	.37	.18		2.81
Syracuse	do				.91					.40	.31	.66	.45	.91	.22	.23				.31							.44	.11	.32	.14		5.41
Thurman	do				.30	T.				.26	.10	.52		.50	.20					.27							.45		T.			2.60
Toboso	Muskingum			.05	.51	.15					.24	.35		.95	.15	.12												.80	.12	.10		3.54
Urbana	Great Miami		.12	.10	1.48	.10				.40	.57		T.	1.20						.04							.61	.04	.48			5.14
Warren	Mahoning			T.	.14	T.	T.				.48	.27		.33	.03	.04			.03								.06	.60	.62	.07		2.67
Waverly	Scioto	.03		T.	.30	.20				.05	.70	.37		.90	.03	.05				.03							.04	.75	T.	.32		3.77
Waynesville	Little Miami			1.42	.62					.82	.36	.50		.78	.05												.46		.38			5.39
Wooster	Muskingum		1.04	.04	.60	T.				T.	.24	.17		.31	T.	.01											.47	.27	.45	.06		3.66
Youngstown ‖	Mahoning				.09	.06	.07				.04	.60			.22	.04												.46	.04	.25		1.87
Zanesville ‖	Muskingum	T.		.30	.75	.45					.21	.37		.25	.17	.02	.02											.68	.08	.15		3.45
Indiana.																																
Anderson	W. Fork, White		.33	.15	.38					.82	.52	T.		T.													.05	T.	.17			2.42
Attica ‖	Wabash		.15	.11	.45	.01			.01	.87	.56	.10	T.	.07						.15					T.	.02	.58	.02	.03	.01		3.14
Bloomington ‖	W. Fork, White				1.79	T.			.18	1.00	.60	.33		.37	.20					.04						.03	.40	T.	.07	.13		5.14
Bluffton ‖	Wabash			.10	.24	.02				.20	.90	.85															.35	T.	.25	.10		3.01
Butlerville	E. Fork, White			.54	.97			.19	.18	1.27	1.30		.14	.32	.18					.07						.11	.22	.03	.26			5.78
Cambridge City ‖	Whitewater		.19	.27	1.05	.05				.27	.88	.55		.16	.53												.34	.04	.05	.23		4.61
Columbus ‖	E. Fork, White				2.07	.02			.06	.85	.75	.34		.40	.22					.04							.27		.03	.18		5.23
Connersville	Whitewater			.31	1.58					1.05	.50	.30		.40													.24		.19			4.57
Crawfordsville	Wabash		.20	.18	T.			.10	.10	.25	.28		T.												T.	.68		T.				1.79
Delphi ‖	do		.10	.09	.27	.03				.52	.37	.12	T.	.07						.01						T.	.66	T.	.19			2.43
Eminence	W. Fork, White																															
Evansville	Ohio			1.02				.02	.18	.89	.48		.18	.03					T.	T.						.34	.05	T.	T.			3.19
Farmersburg	Wabash			.06	.02			.03	.30	.82	.40		.08	.04						T.						.52		T.	T.			2.22
Farmland ‖	W. Fork, White	.05	.02	.35	.60					.25	.53	.57		.02	.30					T.							.47	.05	.20	.27		3.68

TABLE 2.—*Daily precipitation for April, 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	Total.
Indiana—Contd.																																
Forest Reserve	Ohio			.40	.55			.03	.18	1.08	1.20		.01	.09	.08					.20						.08	.20	.26	.11	.02		4.49
French Lick‖	E. Fork, White				1.27				.13	.66	.64	.18		.15	.15	.01				.16						.01	.16	.02	.01	.10		3.65
Greenfield	do		.09	.30	.47	T.				.62	.51	T.	T.	.18												T.	.15		.13			2.45
Greensburg	do		.10	.35				.04	.10	.80	.75	.10	.15	.18												.25		T.	.20	.05		3.07
Hickory Hill	W. Fork, White			.68	1.10				.20	.83	.53		.02	.39	.02					.02						.11	.08					3.98
Huntingburg	Wabash				.30	.98			.26	1.15	.20			.06											.28					.18		3.41
Huntington	do			.20	.05					.60	1.00	.02														T.	.20	.10	.30			2.47
Indianapolis	W. Fork, White		.11	.59	.07			.02	.34	.54	.70		.05	.08					T.						T.	.35	.03	.04	.09			3.01
Jeffersonville	Ohio			.07	.28			.01	.13	.41	.75	.01	T.	.16	.02					.08						.05	.23	.30	.10			2.60
Judyville	Wabash		.14	.31	.04			.01	.12	.82	.22			.02						.07						.49		T.				2.24
Kokomo	do		.25	.08	.12	T.				.86	.36		T.	.02						.03						.54	.10	T.	.25			2.61
Lafayette‖	do		.18	.20	.07				T.	1.26	.12	T.	.06	.02						T.					T.	.61	.06	.06	.02			2.66
Logansport‖	Wabash																															
Madison	Ohio			.28	.73				.15	1.04	.70	.16	T.	.22	.07					.17						T.	.38	.10	.18			4.18
Marengo	do																															
Marion‖	Wabash		.02	.33	.22	.02				.30	.72	1.17															.15		.35	.05		3.33
Mauzy	E. Fork, White		.13	.11	1.05				T.	.93	.70	.03	.03	.43	.18					T.						.07	.23		.20			4.09
Monticello‖	Wabash		.15	.22	.12	.05				.55	.40	.20		.03						.03				T.		T.	.56					2.31
Moores Hill	Ohio			.48	.63			T.	T.	1.38	.68	.12	T.	.35	.05					.06							.38	.02	.21			4.36
Mount Vernon‖	do			.02	.54				.12	.60	.50	.45	.02	.06	.02					T.						.05	.47	.02				2.87
Nashville	E. Fork, White			1.13	.62	T.		.06	.15	.99	.49		.04	.52	.05					T.						.29	.04		.27			4.65
Paoli	do			.14	.83			.09	.32	.81	.51			.16	.13					.14						.11	.04		.08			3.36
Princeton	Wabash			.98	.25		.03		.40	.87	.78				.04											.04	.50					3.89
Richmond	Whitewater		.12	1.61	.02				.01	.48	.64			.39	.05				T.							.18	.32	.02	.23			4.07
Rochester	Wabash		.94	.21	.27					.41	.26	.01	.04										.04		T.	.42		.25	.23			3.08
Rockville	do		.07	.20	.02	T.		.07	.24	1.24	.31		.02	.04						.01					T.	.59	.02	.01	T.			2.84
Rome	Ohio			.29	.47			.03	.11	.48	.33		.01	.08	.04					.04						.07	.10	.14	.06			2.25
Salamonia	Wabash		.11	.32	.96					.87	.76	.08	.11	.43	.06												.81	.04	1.03			5.58
Salem	Ohio			.30	.50		.08		.20	.81	.52	T.	.02	.02	T.					.25						.15	.04	.06	.12			3.07
Scottsburg	E. Fork, White			.22	.46			.06	.15	.76	1.27		T.	.18						.68						T.	.34					4.12
Seymour	do			•	1.62			.11	*	1.25	.61		.10	.32					.12							.18	T.	.04	.14			4.49
Shelbyville	do			.42	.87			.01	.05	.75	.61		.06	.41												.40	.06	.01	.25			3.90
Shoals‖	do				2.78				.12	.50	.60	.23		.13	.11					.09							.14	.06				4.76
Terre Haute	Wabash			.08	T.			.09	.52	.51	.38	T.	.05	.02					.02	.01						.59	T.	T.	T.			2.17
Veedersburg	do		.42	.18	.04			.05	.06	1.07	.08		T.	.07						.01					T.	.64	.12	T.	.07	T.		2.81
Vevay	Ohio			.35	.70			.05	.15	1.70	.65		T.	.40						.25							.50	T.	.05			4.80
Vincennes‖	Wabash			T.	1.20				.10	.90	.75	.75	T.	T.	T.					.10						T.	.45	.05	T.	T.		4.30
Washington	W. Fork, White			1.39	.45			.08	.32	.92	.62		.05	.07	.03					.07						.55		.05	.10			4.70
Whitestown‖	do		.02	.21	.50	.01				.73	1.11	.87		.11	T.					T.						T.	.40		.16	T.		4.12
Winona Lake	Wabash		.19	.44	.49					.48	.29												.01		T.	.36	.10	.20	.34			2.90
Worthington	W. Fork, White			1.05	.20			.11	.26	1.07	.68			.12						T.						.57	.03		.08			4.17
Illinois.																																
Albion	Wabash			.84	.05			.04	.67	.78	.42	T.		.06						.14						.64		.03				3.67
Casey	do			T.				.07	.25	.80	.61		.06	.04							T.					.58	T.	.01				2.42
Charleston	do																															
Danville	do		.26	.30	.07			.14	.20	.95	.34	T.	.01	.01						.02					T.	.54	.03					2.87
Equality	Ohio			.80				.15	.73	.17	.47	T.	T.	.05												.70	T.	T.				3.07
Fairfield	Wabash			.69	.01			T.	.85	.76	.51		T.	.05						.17						.61	.02	.03				3.70
Flora	do			.24	.02			.05	.84	.42	.30		T.	T.						.13					T.	.58	T.					2.58
Golconda	Ohio			.82	.21			T.	.20	.79	.59		T.	.06												.75	.18					3.60
Hoopeston	Wabash		.22	.24	.07			T.	.18	.99	.25		T.	.03											T.	.53						2.51
McLeansboro‖	Ohio				.90				.22	1.03	.29	.08			.07											.17	.41	.13				3.30
Metropolis	do			.50	.30				.40	.55	.30		T.	.05												.95	.15					3.20
Montrose	Wabash			.07				.11	.79	.19	.28	T.	.05	.02						T.					T.	.59	T.	.02				2.12
Mount Carmel‖	do			T.	1.32				.04	.88	.48	.54	.02	.04	.04					.06						.02	.42			T.		2.86
New Burnside‖	Ohio			.11	.75		.05		.24	.58	.55	.13	T.	.05	.05	T.										.16	.61	.15				3.43
Newton	Wabash			T.	.03			.10	.74	.34	.38		.03	.02						T.					T.	.52						2.16
Olney‖	do			T.	.81				.06	1.05	.27	.15	T.	.06						.20							.58	.05				3.23
Palestine	do			T.	.15	T.		.14	.44	.67	.42		.03	.05						.05						.58	T.	T.	T.			2.53
Paris‖	do				.50	T.			.11	1.10	.38	.12	T.	T.						T.						T.	.25					2.46
Philo	do			.42				.10	.56	.29	.34		.07	.04												.53						2.35
Rileyville	Ohio			.60	.03			.18	.57	.43	.26		T.	.04												.58	T.	.02				2.71
Shawneetown‖	do				1.00				.50	.80		1.00														.24	.36					3.90
Tuscola	Wabash		T.	.27	.05			.06	.52	.28	.25	T.	.06	.03												.58		T.	.02			2.12
Urbana	do		T.	.36				.17	.43	.37	.19		.04	.02						T.					.08	.53	T.	T.	T.			2.19
Kentucky.																																
Alpha	Cumberland				.40			T.		T.	.70				T.					T.						.70	.05	.86				2.71
Anchorage	Ohio			.45	.05			T.	.06	.25	.75	T.		.23	.06					.06						.09	.06	.20	.13			2.39
Bardstown	Salt				.54	.22			.03	.20	.09	1.30		T.	.09					.05							.50	.05	.24	.09		3.40
Beattyville	Kentucky				.12				T.	.28		.58				.20	.18			.12	.58						.22	.58	T.	.18		3.04
Beaver Dam	Green				.44				T.	.10	.55	.20			.09												.20					1.58
Berea	Kentucky								.02	.01	.02	.80			.12	.10				T.						.76	.10	.22	.15	.04		2.34
Blandville	Mississippi			.88				.19	.09	1.15	.24		.09												T.	.98	.03	.03				3.68
Bowling Green	Green	.05			.48	T.			T.	.05	.10				.10												.20		.20	T.		1.18
Burnside	Cumberland																															
Calhoun	Green			T.	.42			.03	.11	.49	.63		.12	.07	.05										T.	.35	.05	.02	T.			2.34
Catlettsburg	Big Sandy				T.						.20	.42	.34			.24	.10			.40							.04	.80	.06	.24		2.84
Earlington	Green				.20				.17	.34	.94	.20		.05	.07											.10	.59		.11			2.77
Edmonton	do				.75			.01	.07	.12	.33	.70		T.	.12											.09	.58	.40	.12			3.29
Eubank	Cumberland				.22					.06	.02	.55			.03	.02											.42	.37	.60	.04		2.33
Falmouth	Licking				.70				.08	.37	.56	.66		.08	.05	.02				.30							.35	.05	.29	.18		3.69
Farmers	do									.28		.60		.10		.28											.60		.15			2.01
Frankfort	Kentucky				.39	T.			T.	.38	.39	1.45	T.	T.	.06					.07							.34	.14	.03	.09		3.34
Franklin	Green				.65			.05	T.		.70		T.	T.	T.													.13	.08			1.61
Greensburg	do				.44				.02	.07	.05	.93			.13												.54	.07	.22	.05		2.52
High Bridge	Kentucky				.30	.03				.22	.05	.59			.04					.08							.50	.27	.46	.12		2.66
Hopkinsville	Cumberland				.48				.05	.05	1.18	.18			.05											.18	.30	.05				2.52
Irvington	Ohio			T.	.44			T.	.06	.33	.56		T.	.04						.11						T.	.15	.14	.05			1.88
Leitchfield	Green			.31				T.	T.	.42	.67		.03	.09												*	.25	.07	.06			1.90
Lexington	Kentucky			.11	.25			.01	.06	.06	.67	.01	T.	.03	.02	T.			.13	.09						.02	.59	.22	.14			2.41
Loretto	Salt				1.20				T.	.20	.65	1.25		.05	T.					.06							.50	.04	.15	T.		4.10
Louisa	Big Sandy																															
Louisville (1)	Ohio			.23	.03			.04	.08	.36	.66		T.	.13					.02	.03						.12	.08	.24	.09			2.11
Do (2)	do																															
Marion	do																															
Maysville	do				.42	.10				.15	.27	.60		.19	.02	.02				.37							.23	.38		.30		3.05
Middlesboro	Cumberland				.33				.03	.08	.02	.51				.09	.42	.11		.08							.75	.14	.21			2.77
Mount Sterling	Licking				.11	.03				.15	.11	.42		.18	.08	.12				.18							.15	.47	.05	.18		2.23

TABLE 2.—*Daily precipitation for April, 1913. District No. 3*—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	
***Kentucky*—Contd.**																																
Owensboro	Ohio				.78				T.	.30	.80	.18	T.		.07					T.						.08	.28	.13	.03	.03		2.68
Paducah	do																															
Pikeville	Big Sandy				T.	.15			T.	.20	T.	T.	.25			.65	.12				.05						T.	.30	.25	.12	T.	2.09
Richmond	Kentucky				.19	.21			.02	.20	.05	.37			.03	.08				T.	.14						.30	.36	.35	.09		2.39
St. John	Salt				.33				.07	.14	.19	.69		.04	.10					.03							.18	.03	.34	.11		2.25
Scott	Licking			.34	.30				T.	1.40	.35	.59	T.	.18	.04					.09						T.	.56	T.	.23	.02		4.10
Shelby City	Kentucky				.26												.84										.72	.38	.36	T.		2.56
Shelbyville	Salt				.51				T.	.78	.26	.86		.10	.18					.15							.30	.50	.25	.15		4.04
Taylorsville	do			.04	.40			T.	.13	.35	.86	.14		.07	.04					.06						T.	.36	.27	.10			2.82
Williamsburg	Cumberland				.26	.15			.03	.03		.70	T.			.95	T.				T.						.50	.45	1.15	.10		4.32
Williamstown	Licking	.05			.57				.03	.06	.55	1.13		T.	.04					.35							.31	.26	.04	.15		3.54
Tennessee.																																
Ashwood	Tennessee				.87			T.		T.	.58			T.	.10											.05		.07	T.			1.67
Benton	do				.20			T.	T.		T.	.32		T.	.10					.55						T.	.72	.15	.05			2.09
Birds Bridge ‖	do												.95			.62	.10											.10	.28			2.32
Bluff City ‖	do								T.				1.54	.14	.02	.39	.13											.38	.47			3.07
Byrdstown	Cumberland				.41							.67			.08												.78	.22	.12			2.28
Carthage ‖	do				.71	.13			.01		.05	.50			.08												.50	.02	.11	.02		2.13
Cedar Hill	do				.70			T.	.04	.11	.22	T.	.01	.01	.15										T.	.02	.02	.03	.01			1.32
Celina ‖	do				.37				.03		T.	.64			.06	T.				T.	T.						.65	.05	.20	T.		2.00
Charleston ‖	Tennessee				.40	.50						.16			T.	.30					.11						.40	.15	.10			2.12
Chattanooga	do				.30						.30	.09			.01											.12	.71	.05				1.58
Clarksville	Cumberland				.30			T.	.07	.20	.90		.03	.01	.04										.02	.03	.17	.28	.01			2.06
Clinton ‖	Tennessee				.20	.20				T.		.13	.15			.32											.50	.35	.30	T.		2.15
Crossville	do				.50						*	1.10			.10	.05				T.							.58	.15	T.			2.48
Dandridge ‖	do												.60		1.50	.20					.34					.20			.70	.10		3.64
Decatur	do				.38			T.	T.		.06	.21			.05	.06				T.						T.	.60	.03	.03			1.42
Dickson	Cumberland				.80					.28	1.10				.10											.05						2.33
Dover	do				.54			T.	.25	.87	1.39		T.	T.											T.	.78		.24				4.07
Dunlap	Tennessee				1.38						.17	.45			.02														.12			1.14
Elizabethton ‖	do								1.00	.07			.48	.09	.09	.34	.20											.35	.58	.05		3.25
Erasmus	Cumberland				.55			T.	T.		.15	.38		.07	.03											T.	.84	.04	.07			2.13
Florence	do				.73			T.		.03	1.10			T.	T.											.14	.23	.14	.03			2.45
Franklin	do				.72				T.	T.	.49			T.	.31											T.		.39		T.		1.91
Halls Hill ‖	do				.78	.09						.58			.22	.05											.35		.25			2.32
Hohenwald	Tennessee					1.05			.16	.12	1.15				.22											.09	.10	.05				2.94
Iron City	do				1.00						.48			T.	T.											.30		.12				1.90
Jefferson City	do				.11			.02		.01		.48	.01		.15	.55	.08			.08							.25	.09	.11			1.94
Johnson City ‖	do								T.				.73	.05	T.	.42	.18											.40	.68	.03		2.49
Johnsonville	do				.60			T.	.06	.83	1.50			T.	.06											1.00	.06	.06				4.17
Kingston ‖	do				.18	.17						.21	.11			.05	T.										.38	.20	.05			1.35
Knoxville	do				.19			T.	T.		T.	.23		T.	.34	.05	.01			T.						T.	.94	.16	.08			2.00
Lebanon	Cumberland				.79			T.	T.	.05	.72	.47	T.	.05	.15											.07	.40	.27	.03			3.00
Lewisburg	Tennessee				.82			T.	.01	T.	.93			T.	.33											.15	.16	.09	.01			2.50
Liberty ‖	Cumberland				.65	.13						.56			.25	.10										.64			.23			2.56
Loudon ‖	Tennessee				.22	.16				T.		.15				.46	.04										.91	.22	.22			2.38
Lynnville	do				.87				.12	T.	.42				.30											.27	.15	T.	.06			2.19
McGhee ‖	do				.26							T.	.56		T.	.49	.12										.75	.18	.09			2.45
McMinnville	Cumberland				.61						.21	.55	.01	.25													.84	.18	.16			2.81
Maryville	Tennessee																															
Mountain City	Tennessee								.27	.18		.20	.48		.79	.06	.17										.08	.38	.07	.09		2.77
Nashville	Cumberland			.11	.52			T.	T.	.17	.41		T.	.01	.09											.16	.02	.16	T.			1.65
Newport ‖	Tennessee								T.	T.			.70		T.	1.20	.20				.06						T.		1.04	.03		3.23
New River ‖	Cumberland				.35							.57				.32	.15										.53	.35	.44	.23		2.94
Palmetto	Tennessee				.73			T.	T.	.01	1.31		T.	T.	.30											.20	.15	.20	.03			2.93
Perryville	do									.86	1.87				.19										.12	.58	.63					4.25
Pinewood	do																															2.19
Rogersville ‖	do					.04			T.	.03		T.	.65		T.	.79	.11				.03						.04	.20	.08	T.		1.97
Rugby	Cumberland				.67				T.	.03		.60		T.	.10	T.				T.							.80	.25	.38			2.83
Savannah	Tennessee				1.12					1.62	1.55			.20											T.	.65	.13	.05				5.32
Sevierville	do				.08	.03						.44			.28	.45	.07			.02							.39	.35	.31	.01		2.43
Sewanee	do			.31						.53				*	.27											*	.13					1.24
Sparta	Cumberland				1.00				T.		T.	.25			.10												.50	.10	.05			2.00
Springville	Tennessee				.73			.05		1.10	1.33		.01	.04	.07										T.	.85	.11	.09				4.38
Tazewell ‖	do				.06	.08			T.	T.		.08	.24			.60	T.				.08						.11	.42	.15	T.		1.82
Tullahoma	do				.66			T.			.25	.30			.25	.01										.06	1.02	.15	.03			2.74
Walling ‖	Cumberland				.30	.15				T.		.28			.10	.04											.84	.16	.21	.02		2.10
Waynesboro	Tennessee				1.08			.04	.05	.08	1.50			.08	.23										.05	.08	.08	.10				3.37
Wildersville	do				.86					2.00	1.46			.10	.08									T.	1.03							5.53
Worsham ‖	Cumberland				.78					.25	.79				.13											.27		.07	.07			2.36
Yukon	Tennessee				.51			T.			.45				.23											.07		.48	T.			1.74
Alabama.																																
Bridgeport	Tennessee				.38	.08						.18	.29		.01	.05											.96	.08	.09			2.15
Decatur	do				.56	.03					.08	.20		T.	.18	.04											.33		.16			1.58
Florence	do				1.47						.19	.44			.11												.36		.07			2.64
Guntersville	do				.54	.12			T.		.20	.15			.05	.08											.60		.23	T.		1.97
Madison	do				.50																						1.10					1.60
Riverton	do				1.20			T.			1.11	.15		.03	.17											.27	.13		.07			3.13
Scottsboro	do				.31						.17				.23	T.										.04	.81	.07	.09			1.72
Tuscumbia	do				1.15						.32	.15			.17												.16		.04			1.99
Georgia.																																
Diamond	Tennessee			.05	T.					T.	.06				.17	.07				T.							.20	.03	T.			0.58
North Carolina.																																
Altapass	Tennessee										.10	.96	1.98		.12												.11					3.27
Andrews	do				.17	.06						.10	.02		.04	.08	.04										.14	.03	.04			0.72
Asheville	do				T.			T.	.02		.85	.49	.23		.88	.17	.01			T.							.52	T.	.06	.01		3.24
Banners Elk	do								.10	.15	.10	.20	2.00		.50	.37											.70	.30				4.42
Blantyre	do										.30	.28	.20		.90												.38					2.06
Blowing Rock	Great Kanawha								.18	.12	.17	3.78	1.09		.45												.25	.24		.04		6.32
Bryson City ‖	Tennessee											.26	.43			.13	.12										.21	.14				1.29
Cullowhee	do					T.			T.		T.	.92	T.		.52	.02				T.							.11	T.	T.			1.57
Hendersonville	do										.28	*	2.04		*	.39				.02							.11	.04	.05			2.93
Highlands	do										.30	3.85	.22		.52																	4.89

TABLE 2.—*Daily precipitation for April, 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	
North Carolina—Con.																																
Hot Springs	Tennessee								T.			.60	.15		.66	.53	.28			T.							.34	.08	.18	.16		2.98
Jefferson	Great Kanawha				T.				.30	.15	.12	1.22	.66	.62	.39	.11	.33										.23	T.	.13	.03		4.29
Marshall	Tennessee									T.	T.	.71	.11	T.	.72	.25	.26										.33	.10	.05	.15		2.68
Murphy ‖	do			.04	.07	.03						.14	.10		.05	.12	T.										.01	.08	.22	T.		0.86
Rock House	Savannah																															
Transon	Great Kanawha								.10	.45	T.	2.00	1.00	.42	.32	.16	.45										.25	.22		T.		5.37
Waynesville ‖	Tennessee											.75	.50		.05	.70	.05											.45	.22			2.72
Virginia.																																
Blacksburg	Kanawha				.18				.05		.09	.14	1.45	.08	.05	.06	.13										.25	.15		.19		2.82
Burkes Garden	Tennessee								.10			.40	1.17	.26	.15	.20	.11										.30	.08	T.	.11		2.88
Elk Knob	do				T.				T.	.15		.40	.01		.07	.49	.02			.03							.49		.03	.05		1.74
Ivanhoe ‖	Kanawha					.46			.10	.02	T.	.25	.45	1.58		.11	.10	T.			T.							.56	.01			3.64
Lebanon	Tennessee					.10			.07			.09	.50	.50			.45										.50	.50				2.71
Max Meadows	Kanawha				.15				T.			.35	.75	1.30		T.				T.							.36		.08			2.99
Mendota ‖	Tennessee								.10	.15			.60			.43	.25				.10							.68	.15	.30		2.76
Mountain Lake	Kanawha											.90	1.80	.10	.20												.50		.01			3.51
Radford ‖	do											.18	.36	1.25			.18											.40				2.37
Speers Ferry ‖	Tennessee								.06	.12			.50	T.		.48	.10										.02	.18	.19	.03		1.68
Wytheville	Kanawha				T.		T.		.21	.01	.06	.42	1.38	.05	.44	.14											.34		.02	.06		3.13

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

TABLE 3.—*Maximum and minimum temperatures at selected stations for April, 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....	51	32	51	39	62	44	58	43	51	38	60	40	64	43	54	36	57	40	58	.....	53	35	63	43	57	38	57	38
2....	52	34	49	37	76	38	75	35	57	33	64	30	72	37	50	37	58	40	57	34	62	31	78	45	57	40	69	42
3....	73	34	75	45	80	55	75	52	80	53	80	44	79	42	77	41	77	47	77	37	71	37	71	62	70	51	67	58
4....	70	40	70	44	79	52	72	56	74	46	78	54	73	58	73	50	72	45	73	55	67	55	64	43	64	39	61	38
5....	48	34	47	37	73	40	70	41	47	34	56	38	56	41	60	36	51	40	54	38	48	32	55	41	52	37	50	37
6....	38	30	42	30	55	37	52	40	44	30	54	33	54	37	47	32	50	35	55	31	45	29	53	36	49	31	49	31
7....	37	28	39	30	52	32	55	30	42	26	52	25	54	35	45	27	44	33	47	29	38	27	48	34	46	29	43	29
8....	49	20	50	29	57	34	54	37	51	20	60	26	58	34	49	24	53	29	56	27	49	26	53	32	50	28	48	28
9....	56	25	55	36	62	33	55	44	58	30	50	33	55	34	59	30	48	40	58	35	61	30	48	39	45	37	45	37
10....	53	41	61	47	70	42	56	49	61	44	73	46	70	41	70	44	67	48	70	40	59	36	64	48	58	45	60	45
11....	60	47	58	47	65	57	68	51	60	49	72	46	69	53	59	50	61	47	59	52	61	44	55	47	58	43	52	44
12....	57	35	59	44	65	47	64	46	58	44	58	45	63	44	58	44	61	45	64	45	57	37	52	45	54	42	49	43
13....	55	40	63	47	63	46	62	45	60	44	60	46	53	45	58	47	52	44	56	45	47	40	45	41	44	39	43	39
14....	60	40	56	45	55	40	50	39	50	41	66	41	51	44	50	43	54	42	58	46	57	41	58	42	55	40	56	40
15....	65	41	58	48	53	42	53	35	54	41	60	45	57	44	59	45	58	48	60	46	59	40	61	40	58	38	58	36
16....	63	35	64	46	67	45	63	44	62	42	70	45	70	46	65	45	67	45	71	43	63	37	71	46	66	40	69	42
17....	69	29	68	42	70	40	69	37	66	31	75	34	73	40	66	36	71	41	74	37	69	34	73	49	69	40	70	41
18....	77	37	77	52	83	42	79	42	79	31	83	34	84	41	77	41	82	44	82	39	77	45	82	55	76	49	76	53
19....	58	37	61	38	83	55	78	51	62	37	78	53	68	45	76	50	67	47	64	52	54	41	64	48	59	43	59	43
20....	45	25	46	30	83	40	67	36	49	30	60	28	58	41	55	27	53	35	58	31	49	25	55	38	51	31	53	33
21....	60	20	60	30	67	32	67	29	63	21	70	25	66	32	63	26	63	31	66	26	62	22	67	36	61	33	64	33
22....	78	35	77	44	80	40	76	39	75	29	78	35	81	37	76	38	80	39	83	29	80	28	78	49	76	47	76	49
23....	84	48	80	62	83	52	80	47	79	46	84	45	85	41	82	61	82	58	86	36	82	52	80	60	78	59	77	59
24....	85	36	83	54	84	50	81	47	80	39	89	54	84	49	82	49	83	50	88	38	83	43	80	58	80	55	78	59
25....	84	42	84	54	86	52	80	50	85	43	92	45	86	50	84	50	86	52	90	45	85	46	80	52	82	52	78	50
26....	65	46	72	46	86	52	72	52	77	47	83	52	62	51	77	52	64	48	69	50	50	48	52	46	53	44	50	43
27....	48	40	46	41	55	45	55	42	47	38	63	44	58	44	52	42	56	45	49	44	46	41	57	44	54	40	55	41
28....	51	41	50	41	59	41	44	40	42	37	54	41	48	43	45	40	47	41	51	41	49	39	47	40	46	36	45	36
29....	56	41	60	44	68	42	53	38	60	36	68	44	70	42	62	41	64	46	69	42	59	39	66	46	60	41	62	41
30....	66	28	66	39	70	40	68	36	64	29	72	33	71	40	66	33	68	41	74	34	68	33	70	46	68	38	70	40
Mns..	60.4	35.4	60.9	42.3	69.7	43.6	65.0	42.4	61.2	37.0	68.7	40.1	66.4	42.5	63.2	40.6	63.2	42.9	65.9	39.6	60.3	37.1	63.0	45.0	59.9	40.8	59.6	41.6

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....	58	36	63	37	65	37	64	48	61	39	59	36	67	34	65	36	64	34	78	31	74	38	73	36	70	35	62	40
2....	56	33	70	32	80	40	74	54	78	44	70	41	80	44	80	45	79	45	82	32	84	38	84	44	82	40	78	46
3....	67	42	78	38	75	60	68	59	67	59	67	59	70	60	78	60	69	59	81	42	82	46	79	65	80	43	76	59
4....	63	44	69	57	64	41	60	44	60	40	65	38	63	40	63	42	63	40	71	57	63	56	59	59	65	57	64	41
5....	50	35	55	37	57	35	55	41	54	35	52	32	56	34	58	33	56	32	59	38	62	46	61	33	59	40	52	39
6....	51	29	55	32	56	30	58	47	51	34	50	29	56	29	58	34	53	30	59	31	69	38	70	37	62	41	51	36
7....	45	25	51	29	50	35	52	42	45	32	46	30	49	32	53	35	46	32	62	30	57	37	53	45	61	31	51	36
8....	54	26	54	30	45	33	49	43	47	31	47	28	47	32	46	37	42	33	57	34	58	42	58	43	55	43	51	36
9....	46	36	52	33	45	38	62	49	47	37	46	28	48	39	53	41	49	39	69	40	65	42	65	43	67	44	62	39
10....	56	40	63	38	61	44	59	48	59	47	59	40	60	47	61	51	59	45	71	45	67	54	63	55	67	50	65	54
11....	55	44	64	50	55	40	49	46	48	42	54	40	52	41	52	41	49	40	68	48	62	41	54	42	60	46	58	43
12....	53	39	60	36	47	40	47	41	45	41	44	37	44	38	45	42	45	36	65	40	52	42	45	43	57	45	52	42
13....	53	38	45	38	43	40	47	40	48	40	50	37	55	38	52	40	50	37	53	42	47	39	45	41	48	41	43	39
14....	53	38	55	41	58	40	61	40	59	36	60	31	61	34	62	32	60	34	51	40	52	40	62	42	50	41	51	39
15....	60	36	62	40	62	37	61	41	61	38	61	31	65	33	64	37	61	32	50	40	70	40	64	42	61	42	55	40
16....	69	36	70	42	72	37	71	47	72	44	72	33	74	35	73	36	74	30	69	37	76	41	73	37	73	40	67	42
17....	73	34	74	38	75	44	76	53	75	48	74	40	80	46	78	44	79	42	79	37	85	45	84	42	78	42	70	48
18....	78	50	83	39	81	52	83	58	78	57	76	49	81	50	83	50	79	46	86	36	89	47	88	48	85	43	81	52
19....	70	40	64	46	75	50	67	54	61	43	62	39	66	43	72	51	62	41	74	44	82	51	76	54	73	52	63	47
20....	54	29	57	36	58	36	62	44	56	35	56	30	60	34	66	37	58	35	65	35	73	43	69	45	65	42	56	39
21....	63	23	66	26	68	33	74	42	66	35	67	32	73	37	72	39	69	38	76	29	84	36	82	43	78	31	68	35
22....	78	43	82	35	80	52	78	59	78	51	88	46	82	52	81	48	82	43	83	36	85	42	85	50	81	48	77	50
23....	82	59	83	40	81	65	78	61	78	58	78	55	78	57	80	57	79	59	83	43	84	52	82	61	83	49	80	55
24....	83	52	85	42	78	60	72	64	76	59	78	56	76	63	77	65	75	56	86	41	80	54	77	63	84	60	80	57
25....	85	51	85	46	79	50	64	48	64	43	68	44	67	45	68	47	56	44	87	45	81	57	59	58	81	49	78	56
26....	72	45	54	51	57	43	63	43	59	42	54	41	63	42	60	44	63	33	51	48	65	45	64	44	58	41	56	44
27....	52	39	61	39	56	43	55	43	52	41	55	35	53	39	55	42	49	35	58	37	66	42	58	40	62	40	51	39
28....	45	37	49	41	52	40	55	42	52	40	56	38	60	40	53	42	62	36	52	39	51	38	73	41	52	40	45	39
29....	62	37	61	39	66	37	69	43	66	42	66	35	71	36	72	36	70	34	72	41	78	42	73	42	73	43	65	42
30....	71	32	71	34	74	42	75	51	73	48	74	38	76	41	76	41	79	39	76	35	84	42	81	41	75	39	67	43
Mns..	62.2	38.5	64.7	38.7	63.8	42.5	63.6	47.8	61.2	42.7	61.8	38.3	64.4	41.2	65.2	42.8	62.7	39.3	69.1	39.1	70.9	43.9	68.6	46.0	68.2	43.3	62.5	43.9

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

Date.	Kentucky.						Tennessee.														Decatur, 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....	66	45	65	40	68	29	75	50	65	41	70	44	69	45	73	40	80	42	76	38	.....	.....	60	44	58	41	57	42
2....	80	50	81	36	82	37	80	49	81	36	80	43	81	51	82	52	83	45	81	53	.....	.....	74	38	72	39	73	40
3....	74	60	79	43	80	48	79	61	82	44	79	65	79	60	80	62	80	63	81	63	81	.....	72	58	78	42	75	51
4....	62	42	69	59	70	58	70	52	75	64	71	49	66	45	67	50	75	55	74	52	68	59	75	55	72	47	72	53
5....	56	39	58	40	72	41	60	44	60	42	59	44	58	41	60	37	57	40	60	37	61	41	55	40	53	40	53	39
6....	56	41	56	36	60	38	68	43	56	37	61	39	71	41	72	36	64	34	72	34	77	37	52	39	50	30	49	34
7....	54	40	53	34	67	32	68	45	60	30	66	40	64	46	75	43	65	37	78	42	78	46	65	39	55	29	55	33
8....	49	40	57	33	57	37	70	53	65	33	58	47	68	50	76	52	75	52	76	53	78	56	53	38	51	32	47	31
9....	58	42	55	34	78	44	67	49	66	43	74	46	70	55	73	54	73	53	72	57	76	54	53	37	53	36	50	38
10....	64	52	64	40	70	52	70	56	65	32	72	51	69	53	67	56	67	59	70	54	76	55	54	42	43	42	53	40
11....	52	45	64	50	70	52	67	57	65	40	66	55	62	45	62	46	65	52	61	41	65	47	60	53	60	38	61	50
12....	49	43	60	39	63	41	61	45	69	50	67	46	49	43	57	39	58	42	55	43	55	41	69	47	54	48	56	45
13....	44	42	46	41	54	40	51	43	50	45	52	46	49	41	48	40	49	41	49	39	51	42	53	41	63	50	58	44
14....	57	42	54	41	50	38	49	43	44	41	50	42	53	42	50	41	45	41	57	41	56	41	41	33	57	43	47	38
15....	61	40	60	41	48	41	57	46	54	38	55	44	63	44	66	38	54	42	64	33	66	43	50	36	55	33	55	37
16....	72	47	71	39	52	42	72	51	65	40	71	45	72	48	75	38	70	40	73	35	73	40	61	42	63	36	60	39
17....	76	53	76	33	54	41	79	53	76	41	75	47	80	53	81	43	76	40	80	38	80	43	69	46	69	35	70	40
18....	82	60	85	41	81	39	83	49	82	42	84	46	85	52	85	47	86	40	85	42	85	45	79	40	78	34	76	36
19....	67	50	67	46	79	50	83	56	71	47	72	58	78	60	81	56	78	46	84	48	85	46	73	48	67	45	68	49
20....	59	42	61	38	47	45	73	54	69	40	70	49	71	51	71	47	73	47	74	53	76	55	67	47	60	40	60	39
21....	71	39	74	31	58	39	74	49	73	33	72	42	78	45	79	41	80	45	80	47	86	48	66	38	62	24	62	27
22....	80	57	82	35	55	40	76	52	77	37	76	50	77	58	79	55	81	54	80	56	79	55	74	38	75	32	73	33
23....	79	61	86	51	75	42	77	48	83	43	80	50	77	55	78	54	82	42	78	55	79	50	77	44	80	44	80	51
24....	78	61	86	48	82	43	79	54	85	44	82	50	76	62	80	60	84	57	74	60	81	57	80	44	83	41	81	45
25....	76	48	86	50	81	47	76	54	88	47	82	54	73	49	73	54	80	50	67	50	71	59	76	47	80	42	79	44
26....	57	45	50	49	75	50	60	48	65	48	64	44	62	47	63	46	76	47	64	45	65	48	69	43	72	44	72	43
27....	53	41	58	38	55	47	59	43	53	41	55	39	53	43	59	41	61	40	66	35	68	42	51	39	56	42	52	39
28....	49	42	47	41	50	34	54	42	47	36	48	38	52	39	57	34	49	38	62	32	59	38	45	34	46	40	44	38
29....	68	45	70	41	71	41	72	45	56	36	65	43	73	48	75	47	70	42	75	40	75	43	52	38	58	38	55	38
30....	73	49	75	36	76	38	77	52	76	38	74	43	77	50	78	42	76	41	79	41	.....	46	72	43	72	34	70	38
Mns..	64.1	46.8	66.5	40.8	66.0	42.2	69.5	49.5	67.4	41.0	68.3	46.6	68.5	48.7	70.7	46.4	70.4	45.6	71.6	45.2	72.2[c]	47.3[c]	63.2	42.4	63.2	38.7	62.1	40.5

[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.