

MAY 27 1901

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR APRIL, 1901.

MARYLAND AND DELAWARE SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

IN COOPERATION WITH THE

MARYLAND STATE WEATHER SERVICE.

(Prof. Wm. B. Clark, Director; Prof. Milton Whitney, Secretary and Treasurer.)

PREPARED UNDER DIRECTION OF

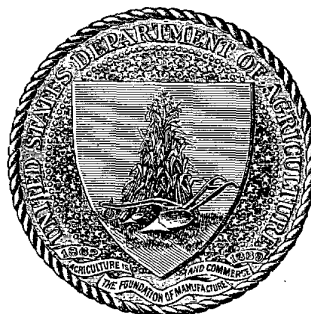
WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

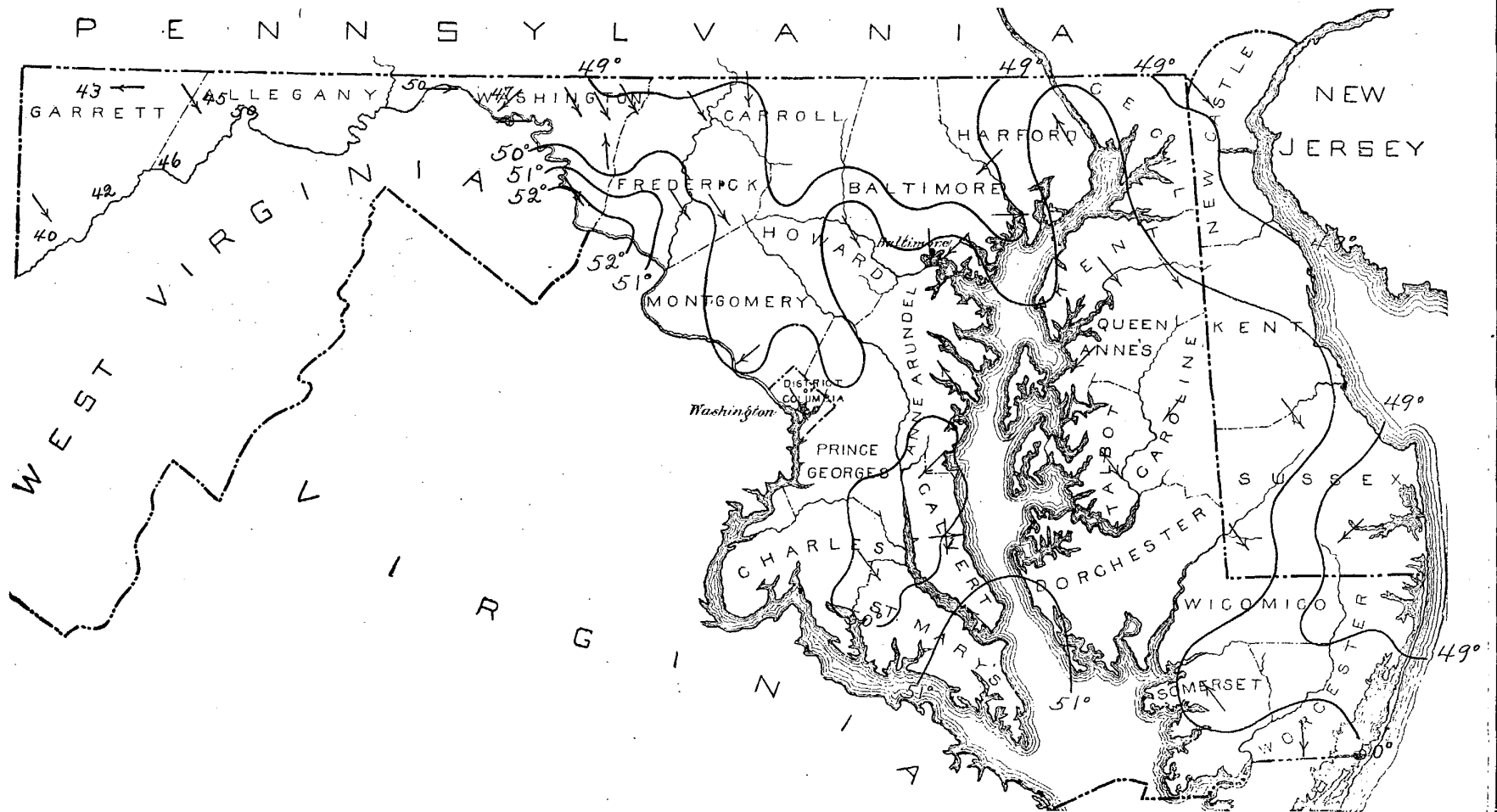
OLIVER L. FASSIG,

SECTION DIRECTOR.



BALTIMORE, MD.:
WEATHER BUREAU OFFICE.
JOHNS HOPKINS UNIVERSITY.
1901.

P E N N S Y L V A N I A



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

MARYLAND AND DELAWARE SECTION,

OLIVER L. FASSIG, Section Director.

Vol. VI.

BALTIMORE, MD.

No. 4.

Weather and Crop Conditions.

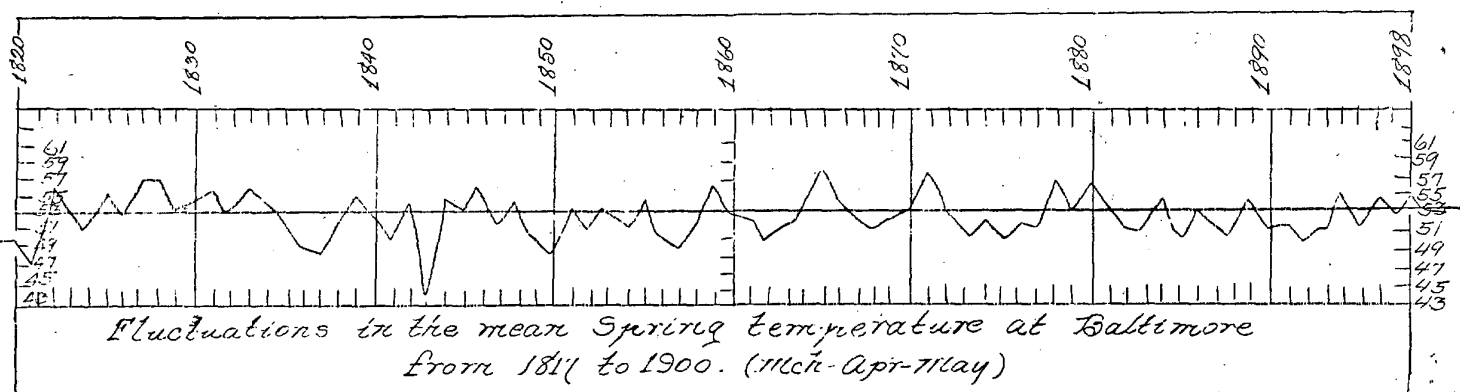
In an average season the month of April will furnish to this section alternating periods of warmth and cold, neither very marked, and frequent gentle showers; but during the month just past the more rigorous March type of weather conditions has prevailed. Stormy periods have been the rule, rainfall has been largely in excess, the prevailing temperatures considerably below normal, the snowfall in the mountains unusually heavy, and the skies overcast for days at a time. Fortunately there were no severe cold waves or damaging frosts to hurt vegetation in the interior, while in the extreme west the fruit buds were not out until the close of the month. Consequently, the crop prospects were quite encouraging at the end of April, although all spring growth was backward, and farm work had made but little progress compared with what is usually accomplished by that time. Freshets in the small streams and practically a flood stage in the Potomac followed the heavy rains of the third decade of the month, but the excess water was carried off safely.

The temperature was deficient by nearly three degrees. In the extreme west the monthly means ranged from 40° to 45°, while east of Washington County they were quite uniform, ranging hardly more than a degree either side of 50°. The warmest period was at the close of the month, although at no time did the temperature rise above normal for two successive days. The coldest weather was experienced on the 1st and 12th in most districts, the extreme minima ranging from 15° and 17° in the mountains to freezing in the interior and to 36° and 38° farther south. Killing frosts were reported at a number of stations on the 12th, and again on the 28th to 30th, but no marked injury followed. During this

final period the night temperatures were low while the mid-day heat was higher than at any other time during the month.

The precipitation averaged over five inches for the section, or nearly three inches above the normal April amount. The heaviest falls occurred in Garrett County and over the southern districts of the western shore, although the distribution of moisture was fairly even, only very limited localities having a total of less than four inches. Heavy rain fell in parts of Southern Maryland on the 2d, becoming general on the 3d, and growing lighter next day. Moderate but general rains fell again on the 6th and then a week of comparatively dry weather ensued. There was a second period of heavy rainfall on the 14th and 15th, followed by a brief interval of clear weather, and then another rainy spell from the 19th to 25th. The remainder of the month was generally clear and dry. During the first wet spell (2d to 4th) snow was general in the west and along the northern boundaries of the section, with a few flurries in the interior; snow fell again in the mountains of Garrett on the 14th and 21st. For the time of year the amounts were unusually heavy; Deer Park and Sunnyside reported total depth of more than two feet. Hail and sleet fell at a number of stations on the 2d, 3d, 14th, and 20th, and thunderstorms occurred at several places on the 14th, 17th, 18th, 19th, and 21st.

As already stated farm work was much delayed by the wet weather. Wheat, rye, and barley grew well during the month. Last year's clover sowing made a poor showing at the beginning of April, and scarcely any improvement was visible at the close; many farmers will turn the fields for corn. The spring clover and timothy germinated well and generally gave evidence of good stands, but grass continued short at the end of April; still there is good prospect for satisfactory hay crops unless a summer drought should shorten the yield. Fruit blooms started in the south early in the month, and with each brief warm spell the area of blossoming extended northward, until at the close of April just a tinge had appeared in the trees of the extreme western districts. The outlook is for excellent fruit crops of all kinds. Tobacco plants grew slowly during the month, but they are reported healthy and plentiful. Oats seeding made slow progress, but most of the crop was in the ground at the end of the month. Minor crops were very backward except in the southern counties where they had been largely planted.



CLIMATOLOGY OF THE MONTH.

ATMOSPHERIC PRESSURE.

Monthly mean at Washington, D. C., 29.96 inches; at Baltimore, 29.94 inches; average, 29.95 inches; highest, 30.48 inches, at Washington, D. C., on the 28th; lowest, 29.10 inches, at Washington, D. C. and Baltimore, on the 3d.

TEMPERATURE.

The monthly mean (entire territory), 49.2°, is 2.8° below the normal.

The highest monthly mean was 52.6°, at Sharpsburg.

The lowest monthly mean was 40.4°, at Sunnyside.

The highest temperature recorded during the month was 90°, at Hancock, on the 29th and 30th.

The lowest temperature recorded during the month was 15°, at Deer Park, on the 12th.

The greatest local monthly range was 66°, at Deer Park.

The least local monthly range was 88°, at Van Bibber.

The greatest daily range was 53°, at Hancock, on the 29th.

The least daily range was 3°, at McDonogh, on the 21st, and at Milford, Del., on the 14th.

PRECIPITATION,
in inches and hundredths.

The monthly average (entire territory) 5.72, was 2.80 above the normal.

The greatest amount was 7.97, at Frostburg.

The least amount was 3.30, at Harney.

The greatest amount in twenty-four hours was 2.90, at Smithsburg, on the 3d.

The average number of rainy days, 11.

WIND.

The prevailing direction was from the northwest.

The total movement was 5,887 miles, at Baltimore, and 7,483 miles, at Washington, D. C.

The maximum wind velocity was 36 miles per hour from the northwest, at Washington, D. C., on the 9th.

MISCELLANEOUS PHENOMENA.

Snow.—Boettcherville, 3; Boonsboro, 3; Clear Spring, 4; Deer Park, 3, 4, 14, 21; Fallston, 4; Frostburg, 3, 9, 14, 20; Grantsville, 3, 4, 14; Green Spring Furnace, 3, 4; New Market, 3; Sharpsburg, 3; Smithsburg b, 3; Solomons, 4; Sunnyside, 3, 4, 14, 21; Westernport, 3.

Ice.—Boonsboro, 12, 16.

Sleet.—Clear Springs, 3, 15; Deer Park, 20; Grantsville, 20; Sharpsburg, 3; Washington, 2.

Hail.—Boettcherville, 14; Grantsville, 20; Millsboro, 2; Seaford, 3.

Thunderstorms.—Boettcherville, 18; Millsboro, 19; Princess Anne, 14; Sunnyside, 14, 17, 21.

Killing Frost.—Boonsboro, 5, 12, 16; Millsboro, 12, 29, 30; Princess Anne, 12, 13, 29; Sunnyside, 1, 2, 3, 4, 9, 10, 11, 12, 14, 17, 21; Taneytown, 27, 28, 29.

Heavy Frost.—Baltimore, 17; Washington, 28; Woodstock, 17.

Light Frost.—Carmichael, 28, 29; Chestertown, 11; Denton, 5, 28, 29; Easton, 27, 28, 29; Fallston, 7; Green Spring Furnace, 5, 12, 16, 17, 18, 27; Hancock, 16, 17; Laurel, 27,

28; Princess Anne, 28, 30; Queenstown, 27, 28; Seaford, 28, 29; Washington, 17; Woodstock, 5, 16, 27, 28.

Fog.—Frostburg, 19; Jewell, 6; Prince Fredericktown, 19, 20; Smithsburg b, 6.

High Winds.—Annapolis, 13, 14; Carmichael, 9, 10, 14, 21; Clear Spring, 1, 10, 11; Harney, 8, 9; Laurel, 1 to 11; Princess Anne, 1, 7, 8, 9, 10, 11; Queenstown, 8, 9, 10; Rock Hall, 14; Seaford, 2; Smithsburg b, 9, 15; Solomons, 21.

Solar Halo.—Green Spring Furnace, 1, 5, 12; Jewell, 1, 5, 12.

Solar Corona.—Millsboro, 13; Solomons, 30.

Lunar Halo.—Chewsville, 28; Clear Spring, 28; Green Spring Furnace, 29; Jewell, 1, 30; Solomons, 26; Washington, 1, 28.

Lunar Corona.—Millsboro, 1, 21; Solomons, 1.

Parhelio.—Carmichael, Easton, and Jewell, 5.

Meteors.—Mount St. Marys, 17.

ERRATA.

January, 1901, Report.—Page 5: Total precipitation at Laurel, 2.94, should read 3.02. Page 8: Precipitation at Laurel on the 30th, .20, should read .28; total precipitation, 2.94, should read 3.02.

February, 1901, Report.—Page 5: Total precipitation at Hagerstown, 1.75, should read 0.58; greatest in 24 hours, 1.30, should read 0.20; total snowfall, 3.0, should read 4.3. Total precipitation at Smithsburg a, 0.19, should read 0.80; greatest in 24 hours, 0.07, should read 0.61; number rainy days, 3, should read 4. Total precipitation at Frostburg, 0.98, should read 1.25; greatest in 24 hours, 0.23, should read 0.30. Total precipitation at Laurel, 0.90, should read 0.62; number of rainy days, 2, should read 1. Page 8: Precipitation at Hagerstown on the 8th, 1.30, should read .13; total precipitation, 1.75, should read 0.58. Precipitation at Smithsburg a on the 4th, blank, should read .61; total precipitation, 0.19, should read 0.80. Precipitation at Frostburg on the 5th, .03, should read .30; total precipitation, 0.98, should read 1.25. Precipitation at Laurel on 1st, .28, should read 0; total precipitation, 0.90, should read 0.62.

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The diagram on page 3 of the March Report is based on data for the Baltimore Station, and not for the entire Section.

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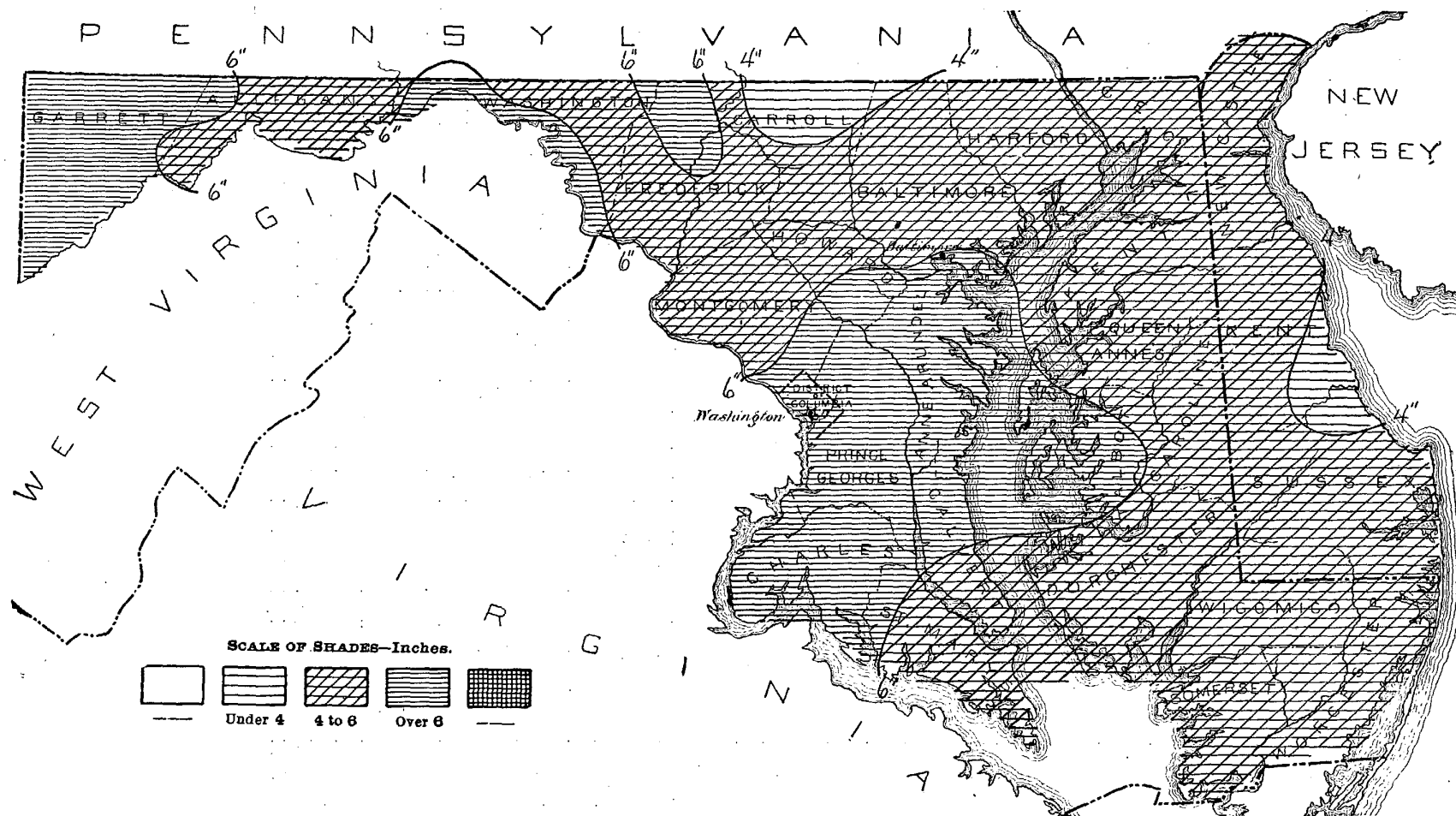
The United States Coast and Geodetic Survey has established a magnetic observatory at Cheltenham, Prince George's County, Maryland, under the direction of Dr. L. A. Bauer, Chief of the Division of Terrestrial Magnetism. Through cooperation with the Maryland Weather Service, the Observatory was equipped with maximum and minimum thermometers, a rain gauge, and an instrument shelter, and arrangements were made for the regular receipt of observations of temperature, rainfall, wind direction, and state of the weather, by the Maryland State Weather Service.

Climatological data for Maryland and Delaware, April, 1901.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.				Prevailing direction of wind.	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 rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
WESTERN MARYLAND.																				
Boettcherville.....	Allegany.....	780	11	49.8	-1.3	88	30	27	12	46	5.26	+2.79	1.30	5.0	9	8	12	10	.....	F. F. Brown.
Boonsboro.....	Washington.....	600	3	49.2	.....	88	30	28	12	43	5.15	.....	2.40	.....	8	13	3	14	s.	C. E. Huntzberg.
Chewsville.....	Washington.....	530	3	48.8	.....	83	30	27	12	43	5.73	.....	1.83	.....	12	11	10	9	nw.	W. A. Henneberger.
Clear Spring.....	Washington.....	500	3	47.2	.....	80	30	33	1	31	5.96	.....	2.10	.....	9	10	5	15	ne.	E. I. Oswald.
Cumberland.....	Allegany.....	722	42	.....	.....	.....	.....	.....	.....	.....	4.54	+2.28	1.10	.....	12	11	0	19	ne.	W. W. Frantz.
Deer Park.....	Garrett.....	2,457	10	41.8	-3.5	81	30	15	12	49	6.04	+3.49	1.10	25.0	12	.....	.....	.....	.....	James Webster.
Frostburg.....	Allegany.....	2,200	6	44.6	.....	82	30	24	12	38	7.97	.....	1.81	14.0	15	12	0	18	nw.	S. P. Specht.
Grantsville.....	Garrett.....	2,400	8	43.3	-3.1	79	29	25	1	38	6.08	+3.28	1.30	22.2	12	10	5	15	e.	Mrs. G. G. Townsend.
Green Spring Furnace.....	Washington.....	450	9	48.6	-3.1	86	30	28	12	44	6.29	+4.38	1.85	.....	10	12	0	15	ne.	J. S. Miller.
Hagerstown.....	Washington.....	552	10	50.4	-3.3	88	30	12	44	4.60	+3.29	.....	2.50	.....	8	11	8	11	nw.	E. G. Kinsell.
Hancock.....	Washington.....	455	3	49.6	-3.4	90	29	25	12	53	6.07	.....	2.00	.....	8	10	6	14	w.	Clyde B. Stouffer.
Sharpsburg.....	Washington.....	420	7	52.6	+0.5	87	29	34	1	43	6.02	+4.13	2.55	.....	9	13	6	11	nw.	J. D. Stottemeyer.
Smithsburg a.....	Washington.....	750	3	49.0	-1.4	85	30	26	12	43	6.44	+5.08	2.90	.....	12	11	6	13	nw.	Chas. G. Biggs.
Smithsburg b.....	Washington.....	900	3	48.2	.....	85	30	25	1	32	7.77	.....	2.90	.....	10	11	5	14	nw.	Chas. K. Shank.
Sunnyside.....	Garrett.....	2,440	9	40.4	-5.4	80	30	17	12	45	7.70	+3.77	2.26	25.0	17	13	2	15	nw.	George R. Crowther.
Westernport.....	Allegany.....	1,000	7	46.0	-5.1	84	30	25	11	37	.....	+3.48	1.88	4.0	12	.....	.....	.....	.....	J. G. Knauer.
Average.....				47.3	-2.9						6.08	+3.60	.....	11.9	11	11	5	14	nw.	Prof. O. H. Bruce.
NORTHERN-CEN. MD.																				
Bachman's Valley*.....	Carroll.....	860	8	47.0	-2.8	83	30	30	1	39	5.93	+2.51	1.73	T.	8	15	4	11	se.	J. M. Myers.
Baltimore.....	Baltimore.....	123	67	50.7	-2.4	86	30	37	1	34	5.53	+2.10	1.83	.....	14	8	4	18	n.	U.S. Weather Bureau.
Baltimore, J. H. Hosp.....	Baltimore.....	112	7	49.4	-3.2	86	30	32	1	30	7.05	+4.40	2.01	.....	16	12	0	19	nw.	W. L. Woods.
Chase.....	Baltimore.....	25	3	47.8	.....	73	29	32	27	32	5.91	.....	2.22	.....	11	12	4	14	w.	E. J. Crouch.
Darlington Academy.....	Harford.....	339	12	50.2	-1.1	85	30	35	1	42	4.83	+1.86	1.62	.....	9	12	7	11	se.	Prof. A. F. Galbreath.
Fallston School.....	Harford.....	450	33	49.0	-1.1	84	30	34	1	37	5.66	+2.34	2.09	T.	12	7	8	15	ne.	G. G. Curtiss, A. M.
Frederick.....	Frederick.....	275	29	50.6	-1.5	86	30	33	12	39	5.88	+2.55	1.92	.....	11	14	1	15	nw.	McClintock Young.
Great Falls.....	Montgomery.....	200	13	48.4	-4.7	82	30	33	17	40	5.99	+3.51	2.00	.....	14	16	0	14	ne.	Washington Aqueduct.
Harney.....	Frederick.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.30	.....	1.00	.....	6	11	7	12	.....	Daniel Bowersox.
McDonogh.....	Baltimore.....	.....	.....	48.6	-2.6	84	30	32	10	32	5.18	+3.02	1.20	.....	11	15	9	6	.....	Wm. T. Purdum.
Mt. St. Mary's Coll.....	Frederick.....	720	41	49.8	-1.4	86	30	34	1	35	7.60	+4.63	2.60	.....	7	13	5	12	nw.	J. A. Mitchell, Ph. D.
New Market.....	Frederick.....	550	18	49.7	-1.5	85	30	32	1	39	5.47	+2.34	2.13	T.	12	10	4	16	nw.	H. H. Hopkins, M. D.
Takoma Park.....	Montgomery.....	.....	2	50.1	.....	82	30	34	1	36	7.05	.....	2.05	.....	13	.....	.....	.....	.....	G. A. Warren.
Taneytown.....	Carroll.....	490	9	49.2	-2.8	86	30	31	12	36	3.73	+0.73	1.75	.....	11	12	6	12	n.	Prof. H. Meier.
Van Bibber.....	Harford.....	100	6	50.4	-1.7	75	29	37	1	33	5.85	+2.30	2.27	.....	13	10	7	13	nw.	H. A. Wroth.
West'n Maryland Coll.....	Carroll.....	900	7	48.2	-5.4	84	30	30	1	37	.....	.....	.....	.....	13	4	13	.....	.....	Prof. Roland Watts.
Woodstock College.....	Baltimore.....	392	32	50.4	-0.8	85	30	26	13	40	5.04	+2.09	1.69	.....	8	12	2	16	nw.	James T. Dawson, S. J.
Average.....				49.5	-2.3						5.60	+2.74	.....	T.	11	12	4	14	nw.	
SOUTHERN MARYLAND.																				
Annapolis.....	Anne Arundel.....	45	28	50.4	-2.9	75	30	29	29	45	7.48	+3.75	2.30	.....	11	8	8	14	se.	W. M. Abbott.
Charlotte Hall Sch.....	St. Mary's.....	107	8	49.8	-3.8	82	30	29	1	43	7.08	+3.57	2.50	.....	12	12	7	11	nw.	J. F. Coad.
Distributing Reservoir.....	Dist. of Columbia.....	120	11	52.0	-2.4	85	30	40	1	25	5.51	+2.87	2.07	.....	13	.....	.....	.....	.....	Washington Aqueduct.
Jewell.....	Anne Arundel.....	105	14	49.8	-4.7	83	30	34	5	35	6.80	+3.21	2.25	.....	8	14	2	14	ne.	J. Plummer.
Laurel.....	Prince George's.....	150	7	50.0	-3.2	88	30	30	20	48	6.13	+3.43	1.95	.....	8	8	7	15	n.	Dr. T. M. Baldwin.
Md. Agricultural Coll.....	Prince George's.....	170	10	49.9	-2.9	84	30	31	27	41	6.40	+2.71	2.12	.....	6	14	9	7	n.	Prof. J. H. Patterson.
Prince Fredericktown.....	Calvert.....	.....	.....	50.0	.....	83	30	34	1	38	6.47	.....	2.30	.....	13	9	8	13	n.	Alfred Presson.
Receiving Reservoir.....	Dist. of Columbia.....	160	11	51.3	-2.5	83	30	39	1	28	6.36	+3.62	2.22	.....	14	.....	.....	.....	.....	Washington Aqueduct.
Solomon's.....	Calvert.....	20	10	51.1	-2.2	81	30	38	1	32	4.42	+1.21	1.30	T.	12	8	3	19	se.	W. H. Marsh, M. D.
Washington.....	Dist. of Columbia.....	112	31	50.6	-2.4	87	30	36	1	42	6.34	+3.00	2.28	.....	13	12	2	16	nw.	U.S. Weather Bureau.
Average.....				50.5	-3.0						6.30	+3.04	.....	T.	11	11	6	13	nw.	
EASTERN MARYLAND.																				
Berlin.....	Worcester.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. E. J. Dirickson.
Cambridge.....	Dorchester.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Jordan.
Carmichael.....	Queen Anne's.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.56	.....	1.32	.....	9	12	3	15	nw.	Dr. Frederick Capes.
Chestertown.....	Kent.....	80	17	50.1	-1.1	77	30	35	4	28	5.70	+1.97	1.63	.....	15	11	11	8	nw.	Hon. M. de K. Smith.
Coleman.....	Kent.....	80	3	.....	.....	.....	.....	.....	.....	.....	5.44	.....	2.00	.....	12	.....	.....	.....	.....	James S. Harris.
Denton.....	Caroline.....	42	12	50.4	-2.4	82	30	35	15	43	4.50	+2.07	1.08	.....	11	12	3	15	ne.	F. C. Ramsdell.
Easton.....	Talbot.....	35	12	50.2	-3.3	79	30	35	12	39	6.13	+3.33	1.46	.....	9	12	9	9	nw.	Henry Shreve.
Mardela Springs.....	Wicomico.....	25	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. M. Stevenson.
Pocomoke City e.....	Worcester.....	37	8	50.6	-5.0	77	30	34	13	39	4.02	+0.50	1.56	.....	7	.....	.....	.....	.....	J. R. Stewart.
Port Deposit.....	Cecil.....	25	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. W. K. Carroll.
Princess Anne.....	Somerset.....	20	27	49.8	-5.6	77	30	30	12	42	4.52	+1.67	1.47	.....	14	8	10	12	se.	Isaac L. Leary.
Queenstown.....	Queen Anne's.....	20	3	50.9	.....	79	30	38	11	30	5.03	.....	1.50	.....	14	12	6	12	ne.	J. S. Barwick.
Rock Hall.....	Kent.....	25	3	50.2	.....	78	30	36	29	37	5.18	.....	2.00	.....	13	13	2	15	nw.	
Sudlersville.....	Queen Anne's.....	.....	3	50.6	.....	86	30	32	4	44	5.11	.....	1.65	.....	7	10	13	7	nw.	
Average.....				50.4	-3.5						5.02	+1.91	.....	.....	11	11	7	12	nw.	
DELAWARE.																				
Milford.....	Kent.....	20	22	51.6	-0.6	81	30	33	29	42	3.87	+0.56	1.77	.....	8	16	0	14	nw.	J. Y. Foulk.
Millsboro.....	Sussex.....	23	9	48.3	-4.1	73	30	31	12	39	5.69	+2.11	1.47	.....	11	10	3	17	ne.	Rev. L. W. Wells.
Newark (Del. Coll.).....	Newcastle.....	136	8	49.0	-1.6	81	30	35	12	43	5.84	+3.10	2.00	.....	6	9	7	14	nw.	Prof. W. H. Bishop.
Seaford.....	Sussex.....	40	11	50.7	-2.9	81	30	36	12	40	4.41	+0.65	1.18	.....	10	9	3	18	nw.	W. T. Wallace.
Wyoming.....	Kent.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. Jas. L. Crossmore.
Average.....				49.9	-2.3						5.12	+1.60	.....	.....	9	11	3	16	nw.	
General average.....				49.2	-2.8						5.72	+2.80	.....	2.0	11	11	5	14	nw.	

NOTE.—All records are used in determining State or district means, but State and district departures are determined by comparison

TOTAL PRECIPITATION, APRIL, 1901.



Daily precipitation for Maryland and Delaware, April, 1901.

Stations.	Day of month.																															Total.		
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.			
WESTERN MARYLAND.																																		
Boettcherville.....			1.30			.50								1.25	.03						.95	.85	.30	.03	.05								5.26	
Boonsboro.....			2.40	T.		.30								1.08							.03	.50	.30	T.	.10	.45							5.16	
Chewsville.....				2.08		.46								1.83								.75	.30		.08		.53						5.73	
Clear Spring.....				2.10				.25							1.45						.69	.94	.68	.02		.10	.33						5.96	
Cumberland.....			.94	.35		.08	.39							.52	.58						.03	.58	.67	.39	.03	.04							4.54	
Deer Park.....			.90	1.10		.52	.70							.39							.18	.90	.20	.82	.13	.05	.15						6.04	
Frostburg.....	.04	.01	1.44	.11	T.	.55	.03	.01						1.81	.03						.47	1.59	.37	.29	.10	.12							7.97	
Grantsville.....			1.37	.25		.50	.47							1.02							.50	1.09	.55	.20	.13	.05	.02						6.08	
Green Spring Furnace.....			1.85	.02		.23								1.85							.10	1.32	.38	.02	.42								6.29	
Hagerstown.....				2.50		.40	.05							.45							.29	.38		.04	.43								4.60	
Hancock.....				2.02		.55								1.54							.15	1.25	.33		.07	.18							6.07	
Sharpsburg.....			2.55			.32								1.49							.09	.55	.50	.05	.42	.05							6.02	
Smithsburg.....			2.90	.05		.30	.02							1.50	.18						.73	.23	.03	.07	.40	.03							6.44	
Smithsburg b.....			2.90	.05		.05	.09							2.26							T.	1.50	.37	.07	.42	.05							7.77	
Sunnyside.....			T.	2.23	.55	.06	.52	.37	.11	.22				.95	.33						.22	.99	.64	.11	.03	.19	.14						7.70	
Westernport.....		.04	.40	.09	.13	.38	T.						.02	1.88							1.28	.89	.48	.12	.09								5.68	
NORTHERN-CENTRAL MARYLAND.																																		
Bachman's Valley.....			T.	1.60	T.		.81		T.					.78	.16						.21	.75	.98		T.	.64							5.93	
Baltimore.....		.01	1.83	T.		.42	.02	T.	T.					.94	.27	T.					.05	.56	.54	.01	.04	.78	.05	.01					5.53	
Baltimore, Johns Hopkins Hosp.			2.01	.10		.03	.48	.04						.22	1.18	.30					.45	.18	.38	.54	.10	.55	.45	.04					7.05	
Chase.....			2.22	.07		.43								.51	.20						.16	.61	.37	.08	.88	.38							5.91	
Darlington Academy.....			1.62	.07		.41								.19	.11							.95		.12	1.29	.07							4.83	
Fallston School.....			2.09	.02		.45	T.	T.						.40	.32	T.					.22	.78	.16	T.	.08	.95	.18						5.66	
Frederick.....		.54	1.92		.23									1.14	.18						.24	.74	.23	.06	.60	.03							5.88	
Great Falls.....			2.00	.29		.02	.19							.70	1.04	.02						.24	.64	.04	.04	.30	.44	.03					5.99	
Harney.....			1.53																			1.05		.70									3.30	
McDonogh.....			1.10		.05	.37								.99	.10				.02	.19	.16	1.23	.27	.73								5.18		
Mt. St. Mary's College.....			2.60			.30								1.20							.90	.80	.10	.70									7.60	
New Market.....			2.13	T.		.29	.05							1.15	.17						.10	.38	.47	.07	.04	.52	.10						5.47	
Takoma Park.....			2.05	.47	.02	.02	.36	T.						.70	1.10	.15					.30	.84	.09	.52	.43								7.05	
Taneytown.....			1.75	.02		.35								1.54	.02	.02					.44	.52	.07		.02								3.73	
Van Bibber.....			2.27	.06		.50								.45	.14	.02					.19	.74	.19	T.	.09	.97	.22	.01					5.85	
Western Maryland College*.....									1.10					.73	.13						.60			.45	.57	.16								
Woodstock College.....			1.69	T.		.30								1.05	.10						.10	1.00	T.		.10	.70							5.04	
SOUTHERN MARYLAND.																																		
Annapolis.....			2.37		.30		.40							1.00	.50						.10	.98	.60	.10		1.10		.10					7.48	
Charlotte Hall School.....			2.25	.35		.28								1.2	2.50	.12					.20	.30	.25	.30	.10	.30							7.08	
Distributing Reservoir, D. C.....			2.07	.21		.31								.63	.88	.11						.20	.57	.03	.07	.35	.02						5.51	
Jewell.....			2.25	.05		.27								2.75							T.	.70			.40	.38							6.80	
Laurel.....			1.75	.15		.40								1.95	.20							.20	.73			.75							6.13	
Maryland Agricultural College.....			1.85	.40		.35								2.12								.88		T.	.80	T.							6.40	
Prince Fredericktown.....			.04	2.30	.10	.37		T.						1.55	.67	.02					.07	.40	.22	T.	.02	.45	.25						6.47	
Receiving Reservoir, D. C.....			2.22	.2		.02	.35							.75	1.00	.09					.22	.60	.06	.03	.32	.42	.02						6.35	
Solomon's.....			.39	1.39	.01	.14								T.	1.05	.37					.10	.29	.12		.12	.45	.16	T.					4.42	
Washington, D. C.....			.16	2.28	.04	.27			T.					1.62	.34	.01					.11	.61	.24	T.	.03	.61	.02	T.					6.34	
EASTERN MARYLAND.																																		
Cambridge.....															.89	.39	T.				T.	T.	.39	.18	T.	.06	.64	.32					4.56	
Carmichael.....			1.32	T.		.37	T.							.25	.55	.12					.12	.25	.56	T.	.12	.57	.60	.20					5.70	
Chestertown.....			1.63	.10	.03	.05	.55							.50	.04	.04					.05	.80	.25	.05	1.17	.08							5.44	
Coleman.....			2.00	.08		.37								1.08	.24	.12					.26	.35		.50	.20	.26							4.50	
Denton.....			1.06	.16		.18								.80	1.40	.10							.89	.06	.88	.10							6.13	
Easton.....			1.46			.44																												4.02
Mardela Springs.....																																		
Pocomoke City.....					1.56																	.51				.47	.32							
Port Deposit.....																																		
Fort Deposit.....																																		
Princess Anne.....		.31	1.00	.01		.17								1.47	.11						.01	.40	.17	.03	.14	.40	.25	.05					4.52	
Queenstown.....		1.50	.10	.02	.03	.26								.40	.80	.11					.25	.43		.08	.60	.40	.05			T.			5.03	
Rock Hall.....			2.00	.05		.23	.03							.35	.57	.05					.02	.40	.28		.79	.40	.01						5.18	
Sudlersville.....			1.55	.39		.27									.95							.80		.04									5.11	
DELAWARE.																																		
Milford.....			1.12												.77								.77										3.87	
Millsboro.....				1.00	.40										.17	1.47	.20						1.13	.15		.07	.60	.35					5.69	
Newark (Delaware College).....				2.00	.07		.32								.06								1.75				.64						5.84	
Seaford.....					1.23	T.	.18								1.65								.72	T.	.04		.59						4.41	
Wyoming.....			1.40	.28	.06									1.00	.75								1.18	T.		T.	.68	.20					5.81	