U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR APRIL, 1897.

MARYLAND AND DELAWARE SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

IN COOPERATION WITH THE

MARYLAND STATE WEATHER SERVICE.

PREPARED UNDER THE DIRECTION OF

WILLIS L. MOORE,

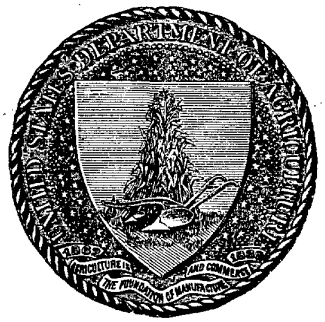
CHIEF OF BUREAU.

BY

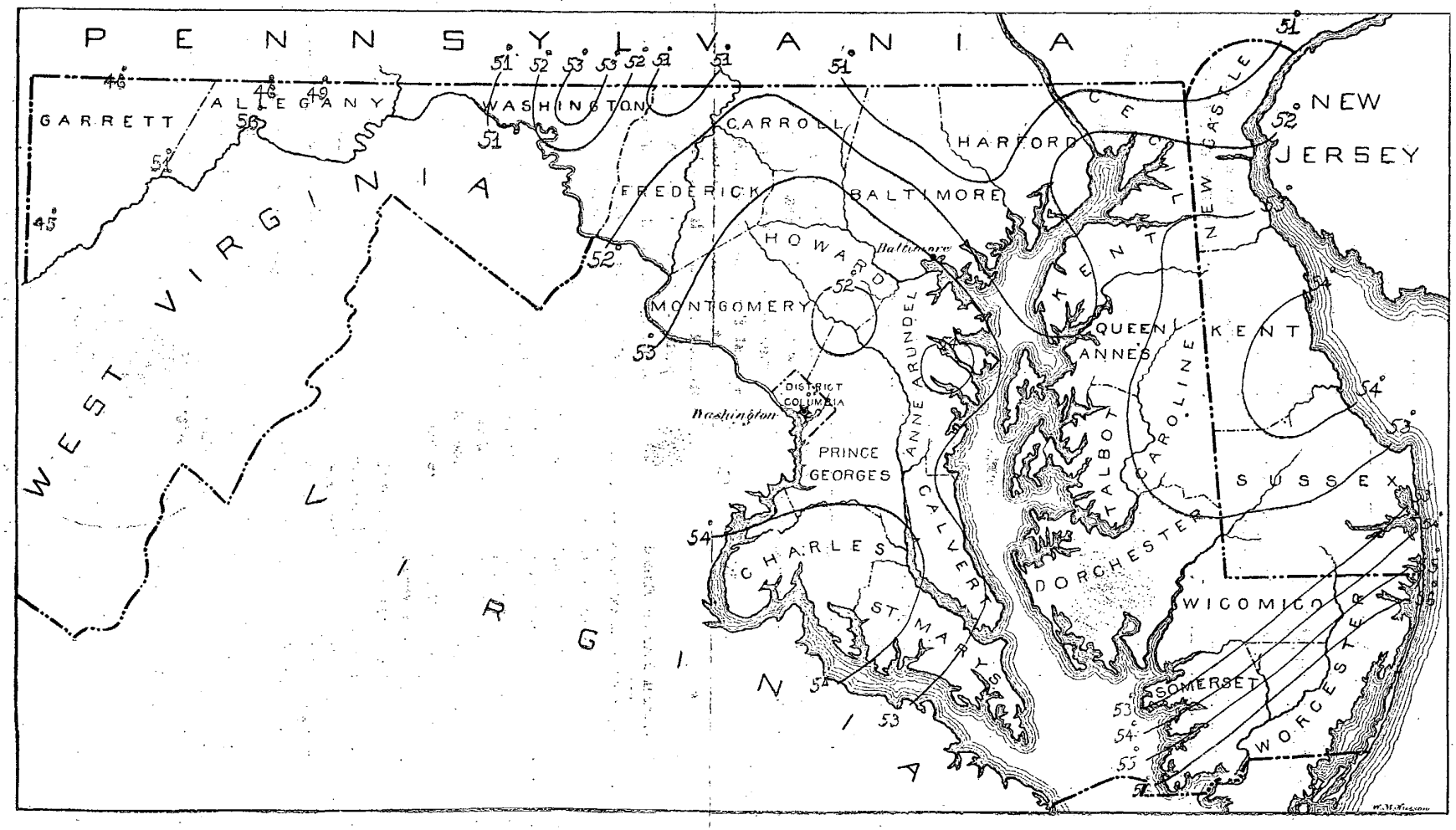
F. J. WALZ,

LOCAL FORECAST OFFICIAL AND SECTION DIRECTOR,

JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD.



MONTHLY MEAN ISOTHERMS, APRIL, 1897.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

Central Office, WASHINGTON, D. C. | WILLIS L. MOORE, Chief.

IN COOPERATION WITH THE

MARYLAND STATE WEATHER SERVICE.

MARYLAND AND DELAWARE SECTION.

F. J. WALZ, Section Director,

BALTIMORE, MD.

VOL. II. BALTIMORE, MD. No. 4.

TO THE VOLUNTARY OBSERVERS AND CROP REPORTERS.

In assuming the Directorship of the Climate and Crop Service of the Weather Bureau for the Maryland and Delaware Section, the undersigned begs to express for the Weather Bureau his appreciation of the valuable services and cooperation of the voluntary observers and crop reporters in this Section, and to hope that these pleasant relations will continue and that the same liberal cooperation will be extended to him in the future as has been so generously done to his predecessors in the past.

F. J. WALZ, *Director.*

* * *

BETTER WEATHER PREDICTIONS.

IMPORTANT DATA SECURED BY EXPERIMENTING WITH KITES.

[Washington correspondant for the Baltimore American.]

The most significant development in weather forecasting for years, making it possible to forecast for a period at least sixteen hours longer than at present, and more accurately, has been attained by the Weather Bureau, and soon will bear practical fruit. Experiments with kites flown at distances of one to two miles above the surface of the earth have been quietly conducted in this city for some weeks.

Daily readings have been taken at this altitude, and the fact has been established that shifting of the wind occurs at a mile level above the earth's surface from twelve to sixteen hours before the same change of direction occurs on the surface. This is due to the same forces which operate to cause wind shifts to produce a storm; one condition being dependent on the other. Secretary of Agriculture Wilson has taken great interest in the experiments, which were made by Chief Moore, of the Weather Bureau, and his consultation with Prof. Moore have resulted in the formulation of a policy, which will make weather predictions more valuable in the future. The most imperfect part of weather forecasts now is the prediction as to rain or snow. Meteorologists for the past ten years have been impressed with the fact that future data as to storms must come from a knowledge of upper air conditions. The aeroplane investigations, as announced to-day, have reached that point where it can be safely stated that within six months the Government Weather Bureau, for the first time in the history of any meteorological service, can construct a telegraphic synchronic chart based on air conditions one mile above the earth. This chart will cover the conditions between the Alleghenies and the Rockies at the outset. Chief Moore says this step probably will mark a new epoch in the weather forecasting problem. With these high level readings the Bureau will have the moisture contents of the upper strata, as well as the lower. It will be seen how important this double information is when it is considered that the two strata of air may, by shifting of the wind become mixed within twenty-four hours, and that the precipitation will depend upon the average moisture of the mass.

* * *

CLIMATOLOGY OF THE MONTH.

The weather during the month of April was on the whole unusually favorable for growing crops of all kinds. The temperature was about normal (52° F.) throughout the State. The mean daily range was 36°. The absolute maximum, recorded at Taneytown on the 25th, was 94°; the absolute minimum was 15°, recorded at Sunnyside on the 20th. The rainfall, while it was three-fouths of an inch below the normal for the month, fell in such manner as to be fully utilized for growing crops. Heavy rainfalls, measuring more than two inches in twenty-four hours, were recorded at Mardela Springs and at Princess Anne, in Maryland, at Milford, at Millsboro, and at Seaford, in Delaware. Frosts occurred frequently during the month, but little damage was done to crops excepting by those of the 20th and 21st, which did great damage to peaches and early strawberries. At the close of the month wheat, oats, rye, and grass were in excellent condition. Rye was heading out. Corn planting was well advanced, with indications pointing to a large acreage; some early corn was up. Strawberries were nearly ready for the market. Apple and cherry trees showed an immense amount of bloom. Tobacco plants were in fine condition and growing fast. Some cabbage and tomato plants were set out. Peas were being cultivated. Some potatoes were up. Asparagus was plentiful and in fine condition. Pastures and gardens were backward. Clover was in fine condition. The outlook for all crops, with the exception perhaps of peaches, at the end of of the month was unusually encouraging.

ATMOSPHERIC PRESSURE—IN INCHES AND HUNDREDTHS.

Monthly mean at Washington, D. C., 30.13; at Baltimore, 30.11; average, 30.12; highest, 30.66 at Washington, on the 21st; lowest, 29.60 at Baltimore, on the 9th.

TEMPERATURE—IN DEGREES FAHRENHEIT.

The monthly mean (entire territory), 52.1, was 0.5 below the normal.

The highest monthly mean was 56.8, at Pocomoke City.

The lowest monthly mean was 45.4, at Sunnyside.

The highest temperature recorded during the month was 94, at Taneytown, on the 25th.

The lowest temperature recorded during the month was 15, at Sunnyside, on the 20th.

The greatest local monthly range was 69, at Taneytown.

The least local monthly range was 50, at Annapolis.

The greatest daily range was 48, at Sunnyside, on the 21st.

The least daily range was 3, at St. Charles College, on the 8th, and at Sunnyside, on the 17th.

PRECIPITATION—IN INCHES AND HUNDREDTHS.

The monthly average (entire territory) 2.98, was 0.73 below the normal.

The greatest amount was 5.06, at Sunnyside.

The least amount was 2.00, at Solomons.

The greatest amount in twenty-four hours was 2.76, at Mardela Springs, on the 8th and 9th.

The average number of rainy days, 8.

WIND.

The prevailing direction was from the southwest.

The total movement was 3,974 miles, at Baltimore, and 5,599 miles, at Washington, D. C.

The maximum wind velocity was 35 miles per hour from the northwest, at Washington, D. C., on the 9th.

MISCELLANEOUS PHENOMENA.

Thunderstorms.—On the 5th, at Bachmans Valley, Darlington, Fallston, Grantsville, Laurel, Millsboro, Mt. St. Marys, Newark, Del., Sharpsburg, Smithsburg, and at Taneytown; on the 8th at Princess Anne and Solomons; on the 9th at Charlotte Hall, Cherryfields, Millsboro, Del., and at Solomons; on the 14th, at Fallston and Mardela Springs; on the 17th, at Mardela Springs, Princess Anne, and at Seaford; on the 30th, at Grantsville.

Lightning, distant.—On the 5th, at Cherryfields, Mardela Spings, and Solomons; on the 8th, at Charlotte Hall, Cherryfields, and at Mardela Springs.

Winds, high.—On the 19th, at Smithsburg; on the 25th, 26th, and 27th, at Laurel; sharp gusts and blows on the 5th and 9th, at Green Spring Furnace.

Haze.—On the 23d, 24th, and 25th, at Smithsburg.

Frosts, light.—On the 1st, at Jewell, Seaford, Del., and Van Bibber; on the 2d at Denton, Mardela Springs, Seaford, Del., Taneytown, Van Bibber, and at Woodstock; on the 3d, at Easton, Laurel, Seaford, Del., and at Taneytown; on the 4th, at Denton, Easton, Princess Anne, and at Smithsburg; on the 7th, at Easton; on the 8th, 10th, and 12th, at Sunnyside; on the 13th, at Mardela Springs and Mt. St. Marys; on the 16th, at Mt. St. Marys; on the 18th, at Annapolis and Laurel; on the 19th, at Annapolis, Easton, and Laurel; on the 20th, at Flintstone and Woodstock; on the 21st, at Annapolis, Charlotte Hall, Easton, Jewell, Laurel, Port Deposit, St. Charles, Solomons, Taneytown, and Van Bibber; on the 22d, at Easton and Pocomoke City; on the 23d, at Pocomoke City; on the 27th and 28th, at Sunnyside.

Frosts, heavy.—On the 4th, at Seaford, Del.; on the 20th, at Jewell, Annapolis, Bachman's Valley, and Boettcherville; on the 21st, at Boettcherville.

Frosts, killing.—On the 1st, at Sunnyside; on the 2d, at Princess Anne and Sunnyside; on the 11th, at Sharpsburg and Sunnyside; on the 13th, at Denton, Easton, Laurel, Millsboro, Del., Princess Anne, and Seaford, Del.; on the 15th, at Smithsburg; on the 16th, at Sharpsburg; on the 18th, at Bachman's Valley; on the 20th, at Annapolis, Denton, Easton, Fallston, Grantsville, Green Spring Furnace, Milford, Millsboro, St. Marys College, Newark, Pocomoke City, St. Charles, Smithsburg, Sunnyside, and Washington, D. C.; on the 21st, at Charlotte Hall, Denton, Fallston, Flintstone, Grantsville, Green Spring Furnace, Mardela Springs, Milford, Millsboro, Mt. St. Marys, Newark, Pocomoke City, Princess Anne, Seaford, Sharpsburg, Sunnyside, and Washington, D. C.; on the 22d, at Bachman's Valley and Mardela Springs.

Snowfall.—Trace at Cherryfields on the 4th; trace at Fallston on the 10th; 0.14 at Grantsville on the 17th; ½-inch on the 8th, ⅛-inch on the 11th, a trace on the 17th 20th, and 27th, at Sunnyside.

Ice—One-fourth of an inch at Bachman's Valley on the 20th; ½-inch at Boettcherville on the 20th and 21st; ⅛-inch at Charlotte Hall on the 20th; ¾-inch at Green Spring Furnace on the 20th and 21st; ¼-inch at Jewell on the 20th; at Mardela Springs on the 20th and 21st; at Milford on the 20th and 21st; at Newark on the 19th and 20th; at Seaford on the 20th, ⅛-inch on the 15th and ⅜-inch on the 19th at Smithsburg; at Solomons on the 20th; ½-inch at Taneytown on the 20th; at Van Bibber on the 19th.

Halos, solar.—On the 2d at Bachman's Valley and Jewell; on the 12th, at Green Spring Furnace; on the 13th, at Jewell; on the 21st, at Green Spring Furnace and Jewell.

Halos, lunar.—On the 11th, at Mardela Springs; on the 12th, at Pocomoke City and Taneytown; on the 13th, at Millsboro and Pocomoke City; on the 14th, at Mardela Springs and Millsboro.

Fogs.—On the 5th, at New Market; on the 6th and 8th, at Mardela Springs.

Auroras.—On the 5th and 6th, at Fallston; on the 23d, at Princess Anne; on the 27th, at Millsboro and Princess Anne.

* * *

REMARKS BY OBSERVERS.

Mt. St. Mary's College, Prof. J. A. Mitchell.—First grasshopper on the 7th; 9th, apricot trees in bloom; 12th, whippoorwill heard; 15th, first swallow; 18th, peach trees in bloom; 19th, maple trees leaving; 24th, bobwhite heard; 25th, thrush and cat-bird seen.

New Market, Dr. H. H. Hopkins.—On the 14th, first appearance of the chimney swallow; 28th, cat-bird first seen.

Princess Anne, Mr. James R. Stewart.—On the 16th, first whippoorwill heard.

Green Spring Furnace, Prof. E. G. Kinsell.—A brilliant solar halo with sundogs, seen on the afternoon of the 12th.

Bachman's Valley, Mr. J. M. Myers.—Sundogs seen on the 11th and 12th.

Boettcherville, Mr. F. F. Brown.—Martins seen on the 1st; whippoorwill on the 10th; swallows on the 15th; night robins on the 28th.

Climatological data for Maryland and Delaware, April, 1897.

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*2	Allegany	900	7	46.1	−4.7	66	24	28	2	.....	2.30	−0.92	1.40	.....	3	.....	.....	.....	.....	F. F. Brown.
Cumberland	....do	650	38	54.9	+3.8	86	25	31	21	.....	3.00	+0.53	.....	.....	10	.....	.....	.....	.....	Shriver & Rizer.
Deer Park	Garrett	2,457	6	.....	.....	.....	.....	17	21	.....	2.77	.....	1.05	.....	.....	.....	.....	.....	.....	S. P. Specht.
Flintstone	Allegany	.....	2	49.2	.....	86	25	20	2	46	2.75	.....	1.15	.....	6	11	13	6	.....	N. T. Downs.
Grantsville	Garrett	2,100	4	45.7	.....	79	25	18	20	40	2.99	.....	1.00	.14	15	10	11	9	e.	J. S. Miller.
Green Spring Furnace	Washington	500	5	51.2	+0.4	87	25	25	2	38	2.19	.....	0.50	.....	11	14	11	5	e.	E. G. Kinsell.
Hagerstown	....do	550	6	53.5	.....	88	25	26	20	36	2.37	.....	0.95	.....	4	17	7	6	.....	Prof. C. E. Carl.
Sharpsburg	....do	420	3	51.6	.....	88	25	26	20	37	2.21	.....	1.18	.....	10	18	5	7	.....	R. L. Hiberger.
Smithsburg	....do	.....	.....	49.5	.....	83	25	24	20	35	2.77	.....	1.00	.....	9	11	10	9	.....	L. J. Bell.
Sunnyside	Garrett	2,440	5	45.4	−0.4	78	24	15	20	48	5.06	+0.02	1.60	.....	15	11	10	19	sw.	J. G. Knauer.
Westernport	Allegany	1,000	3	50.7	.....	87	25	24	20	41	3.07	.....	1.05	.04	5	.....	.....	.....	.....	Prof. O. H. Bruce.
Average		.....	.....	49.8	.....	.....	.....	.....	.....	.....	2.86	.....	.....	.....	9	13	8	9	.....	
NORTHERN-CENTRAL MD.																				
Bachman's Valley	Carroll	.....	4	49.1	.....	85	25	23	20	38	3.37	.....	1.22	.....	5	20	7	3	sw.	J. M. Myers.
Baltimore	Baltimore	123	63	53.0	+0.5	84	25	29	20	38	3.19	−0.08	1.32	.....	10	12	11	7	w.	U. S. Weather Bureau.
Darlington Academy	Harford	300	8	.....	.....	84	25	27	20	33	3.16	−0.74	1.25	.....	7	18	9	3	sw.	Prof. A. F. Galbreath.
Fallston School*1	....do	450	29	50.2	+0.4	79	25	28	20	28	3.22	+0.10	1.34	T.	12	7	20	3	s.	G. G. Curtis, A. M.
Frederick	Frederick	250	25	52.2	+0.2	89	25	27	20	36	2.32	−1.41	1.20	.....	7	13	15	2	.....	McClintock Young.
Great Falls*3	Montgomery	150	9	53.5	+0.3	83	25	30	20	.....	2.18	−1.09	0.94	.....	6	.....	.....	.....	.....	Capt. D. D. Gaillard.
Johns Hopkins Hospital		124	3	52.2	.....	84	25	27	20	33	3.35	.....	1.33	.....	8	14	6	10	nw.	W. L. Woods.
McDonogh School	Baltimore	545	22	.....	.....	88	25	26	20	32	.....	.....	.....	.....	.....	18	7	5	.....	S. H. Moore.
Mt. St. Mary's College	Frederick	720	37	50.9	.....	86	25	24	20	33	2.90	−0.35	0.63	.....	11	14	10	6	nw.	J. A. Mitchell, Ph. D.
New Market	....do	550	14	52.8	+3.1	89	25	25	20	35	3.15	−0.69	1.26	.....	8	8	19	3	sw.	H. H. Hopkins, M. D.
St. Charles College	Howard	300	3	52.8	.....	81	25	30	20	22	2.46	.....	1.09	.....	5	16	11	3	se.	H. M. Chapuis, S. S.
Taneytown	Carroll	.....	5	52.4	.....	94	25	25	20	44	3.10	.....	0.99	.....	10	10	11	9	w.	Prof. H. Meier.
Van Bibber	Harford	.....	2	51.1	.....	80	25	28	19	42	3.81	.....	1.45	.....	10	18	3	9	nw.	H. A. Wroth.
Western Maryland Coll.	Carroll	.....	3	53.7	.....	88	24	23	19	42	3.13	.....	1.06	.....	6	21	2	7	.....	Prof. Roland Watts.
Woodstock College	Baltimore	392	28	50.8	−0.3	86	25	26	20	38	2.63	−0.56	1.15	.....	6	17	8	5	nw.	T. J. A. Freeman, S. J.
Average		.....	.....	52.0	.....	.....	.....	.....	.....	.....	3.00	.....	.....	.....	8	15	10	5	.....	
SOUTHERN MARYLAND.																				
Annapolis	Anne Arundel	20	24	54.9	.....	81	25	29	20	33	2.80	−1.25	1.02	.....	7	18	8	4	sw.	J. E. Abbott.
Charlotte Hall School	St. Mary's	167	4	54.6	.....	90	25	32	20	32	2.33	.....	0.75	.....	8	15	13	2	nw.	J. F. Coad.
Cherryfields*2	....do	20	4	52.9	.....	66	25	34	20	.....	2.73	.....	0.80	T.	7	16	13	1	nw.	Col. J. E. Coad.
Distributing Reservoir*3	Dist. of Columbia	120	7	54.8	+1.3	85	24	30	20	.....	2.60	−1.29	1.30	.....	6	.....	.....	.....	.....	Captain Gaillard.
Jewell	Anne Arundel	165	10	53.1	−2.2	87	25	27	20	31	2.16	−2.84	1.23	.....	6	20	6	4	sw.	J. Plummer.
Laurel	Prince George's	.....	3	51.3	.....	87	25	26	2	39	3.29	.....	1.38	.....	5	9	16	5	.....	Dr. T. M. Baldwin.
Md. Agricultural College	....do	170	6	.....	.....	86	25	26	21	41	3.35	−2.35	1.54	.....	6	.....	.....	.....	.....	Prof. J. H. Patterson.
Receiving Reservoir*3	Dist. of Columbia	160	7	54.6	+1.0	84	25	31	20	.....	2.77	−1.19	1.21	.....	8	.....	.....	.....	.....	Captain Gaillard.
Solomon's	Calvert	20	6	53.9	+0.7	81	25	31	20	28	2.00	−2.36	1.14	.....	6	12	8	10	se.	W. H. Marsh, M. D.
Washington	Dist. of Columbia	112	27	52.9	+0.1	88	25	29	20	37	3.02	−0.17	0.89	.....	11	16	8	6	s.	U. S. Weather Bureau.
Average		.....	.....	53.6	.....	.....	.....	.....	.....	.....	2.70	.....	.....	.....	7	15	10	5	.....	
EASTERN MARYLAND.																				
Chestertown	Kent	80	13	51.8	+1.0	81	25	30	20	31	3.58	−1.39	1.30	.....	9	1	19	10	s.	Hon. M. de K. Smith.
Denton	Caroline	42	8	53.5	.....	87	25	28	21	38	2.90	.....	0.90	.....	6	.....	.....	.....	.....	F. C. Ramsdell.
Easton	Talbot	35	8	52.3	−2.1	85	25	30	20	39	2.36	−1.53	0.91	.....	7	24	5	1	sw.	Henry Shreve.
Mardela Springs	Wicomico	25	10	52.6	−0.4	86	25	29	21	36	4.15	−0.75	2.76	.....	9	14	12	3	nw.	A. E. Acworth.
Pocomoke City	Worcester	37	4	56.8	.....	89	25	32	20	37	3.29	.....	1.94	.....	8	19	9	2	sw.	R. M. Stevenson.
Port Deposit	Cecil	.....	.....	52.5	.....	83	25	28	20	39	2.66	.....	1.15	.....	7	23	3	4	sw.	A. L. Lamb.
Princess Anne	Somerset	20	23	52.7	−3.3	86	25	25	2	36	3.24	.....	2.01	.....	8	11	16	3	sw.	J. R. Stewart.
Average		.....	.....	53.2	.....	.....	.....	.....	.....	.....	3.14	.....	.....	.....	8	15	11	4	.....	
DELAWARE.																				
Dover	Kent	40	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. S. Jester.
Kirkwood*1	Newcastle	.....	1	.....	.....	68	24	29	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	William Carnagy.
Milford	Kent	.....	18	54.4	+2.8	89	25	30	20	38	2.69	.....	2.69	.....	8	25	0	5	w.	J. Y. Foulk.
Millsboro	Sussex	.....	5	52.5	−0.1	86	26	27	21	44	3.20	.....	2.07	.....	8	21	4	5	nw.	Rev. L. W. Wells.
Newark (Delaware Coll.)	Newcastle	.....	4	50.5	.....	85	25	26	20	37	2.87	.....	1.13	.....	8	23	4	3	w.	Prof. W. H. Bishop.
Seaford	Sussex	.....	7	53.6	.....	86	25	29	20	34	3.98	.....	2.23	.....	5	.....	.....	.....	.....	H. L. Wallace.
Average		.....	.....	52.8	.....	.....	.....	.....	.....	.....	3.18	.....	.....	.....	7	23	3	4	.....	
General average		.....	.....	52.1	−0.5	.....	.....	.....	.....	.....	2.98	−0.78	.....	.....	8	16	8	6	sw.	

*Extremes of temperature from observed readings of dry thermometer.

1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. ÷ 4.

2 Mean of 8 a. m. + 8 p. m. ÷ 2.

3 Mean of 7 a. m. + 2 p. m. ÷ 2.

Maximum and minimum temperatures for Maryland and Delaware, April, 1897.

| Stations. | 1. | | 2. | | 3. | | 4. | | 5. | | 6. | | 7. | | 8. | | 9. | | 10. | | 11. | | 12. | | 13. | | 14. | | 15. | | 16. | | 17. | | 18. | | 19. | | 20. | | 21. | | 22. | | 23. | | 24. | | 25. | | 26. | | 27. | | 28. | | 29. | | 30. | | 31. | | Monthly mean. | |
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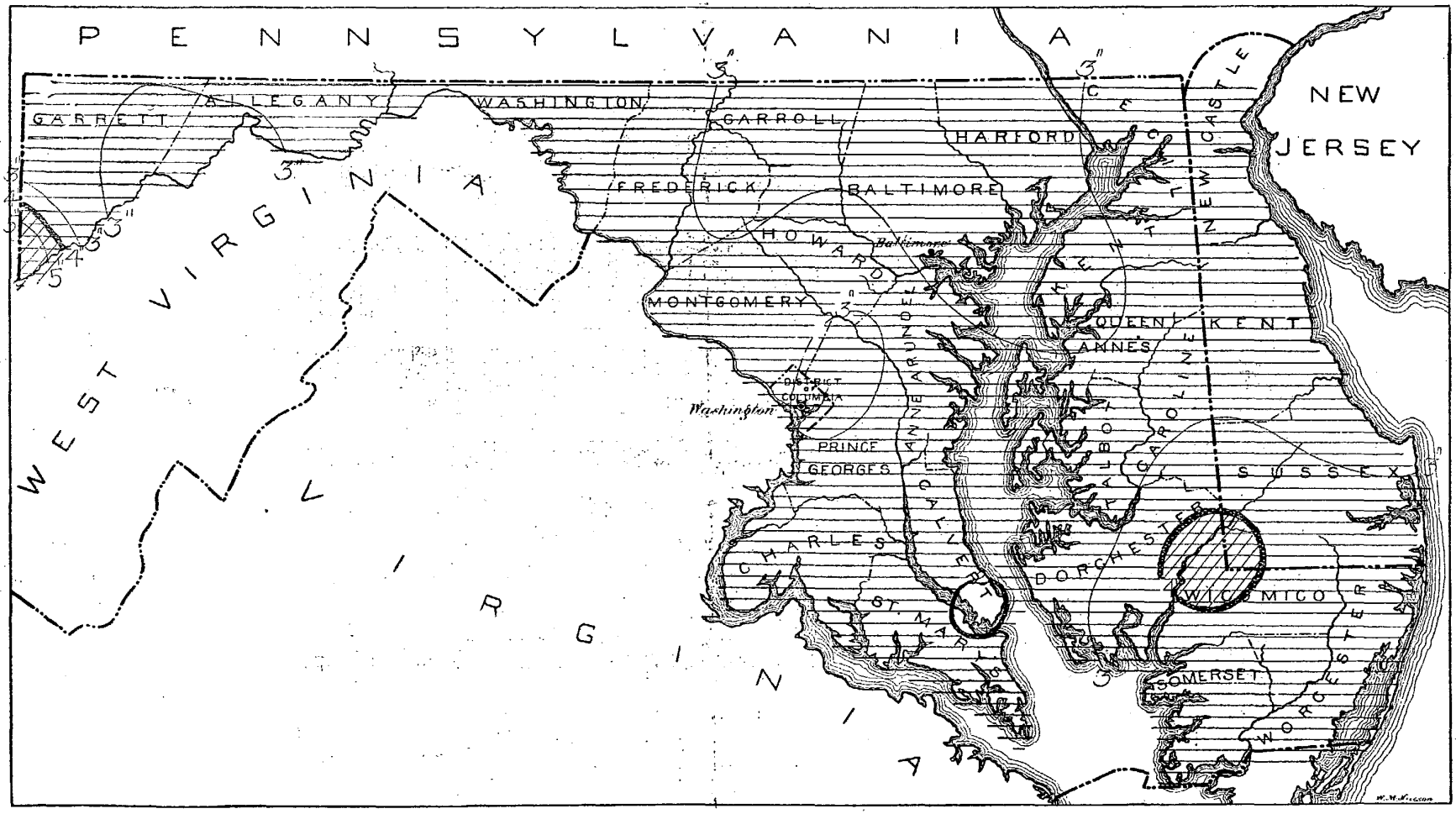
TOTAL PRECIPITATION, APRIL, 1897.



Scale of Shades.

0"to 2" 2"to 4" 4"to 6" 6"to 8" Over 8"

Daily precipitation for Maryland and Delaware, April, 1897.

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				.50	†				1.40						.40											†						2.30
Cumberland																																
Deer Park				.61		.15	.05	.30	1.05						.61																	2.77
Flintstone				.35	.30			.50	1.15					†	.45																	2.75
Grantsville				.50	.20	.07	.05	1.00	.12	.02	.23		.10	.05	.45		.02								.01	.05				.12		2.99
Green Spring Furnace				.50	.59			.30	.43			.17			.22		.11								.05	.02						2.19
Hagerstown				.95				.40	.50						.52																	2.37
Sharpsburg					.89	.29	†	.11	.31		.06	†		†	.27		.20									.08						2.21
Smithsburg				.90	.10			.80			.10			.37		.35	†								.10	.05				†		2.77
Sunnyside			†	1.02	.08	.09	.02	.46	1.60	.36	.03	.18		.28	.48	.10									.08	.22				.06		5.06
Westernport				.60				1.02						.35												.05				1.05		3.07
NORTHERN-CENTRAL MARYLAND.																																
Bachman's Valley				.89	.41		†		1.22					†	.71										†	.14						3.37
Baltimore				.59	.51	.12	†	.34	.98			.02		.05	.16		.38									†	.04					3.19
Darlington Academy					.93			1.25	.11			.08	.07				.63									.09						3.16
Fallston School					.92	.15	.02		1.34			.04			.23		.45									.04	.03					3.22
Frederick				1.20	.05	†			.53			.02		†	.23		.22								.07	†						2.32
Great Falls					.94				.67	.16		.07			.27		.07															2.18
Johns Hopkins Hospital					1.15	.18			1.12	.25					.08	.12	.42										.03					3.35
McDonogh School																																
Mt. St. Mary's College				.55	.63		†	.42	.51			.09		.03	.22	.04	.30								.09	.02						2.90
New Market				1.26	.18		†	.12	.64		.11				.44	.34									.06					†		3.15
St. Charles College				1.09	.09	.05			1.06							.17																2.46
Taneytown					.99	.13			.81	.30		.11		.04	.30	.31										.11						3.10
Van Bibber				1.45	.25		.02	1.05	.25		†			.12	.13	.45									.03	.06						3.81
Western Maryland College				1.06	.14				1.03						.48	.30									.12							3.13
Woodstock College				1.15	.20			.78	.23				†		.17	.10		†									†					2.63
SOUTHERN MARYLAND.																																
Annapolis				.51	.44	.08	†	.39	1.02			†		†	.14		.22									†	†						2.80
Charlotte Hall School				.75	.03			.65	.23					.03	.07		.47									.10	†						2.33
Cherryfields				.20	.28	†	†	.40	.72						.13		.20		†							.80							2.73
Distributing Reservoir, D. C.					1.30	.10			.70	.25		.04					.21															2.60
Jewell					1.23		†		.48					†	.05		.40									†							2.16
Laurel				1.28	.12				1.38						.19	.32																3.29
Maryland Agricultural College					1.54	.09		.24	.98			.04					.46															3.35
Receiving Reservoir, D. C.					1.21	.14			.79	.18		.06			.06	.08	.25															2.77
Solomon's				.25	.28	†	†	†	1.14						.15		.16									.02							2.00
Washington, D. C				.60	.74	.08	†	.23	.89			.04		.03	.10		.29									.01	.01						3.02
EASTERN MARYLAND.																																
Chestertown				1.30	.26	†		.95	.26		.11			.12	.20	.36									†	.02						3.58
Denton				.67	.13		.20		.70		.90				.30																	2.90
Easton					.87				.9		.05			.03	.20		.26									.04							2.36
Mardela Springs					.63				2.76			.02			.35		.28									.09	.02						4.15
Pocomoke City					.62	.12		.01	1.91						.24		.35									.01							3.29
Port Deposit					.84				1.15			.09			.20		.33								.02	.03							2.66
Princess Anne				.09	.49			.13	2.01	.05					.25		.19									†	.03						3.24
DELAWARE.																																
Dover																																
Kirkwood																																
Milford						.96			1.10						.25		.36									.02							2.69
Millsboro				.09	.41	†		.20	1.87		.06	.02			.28		.27																3.20
Newark (Delaware College)					1.13	.07			.99			.10		.21	.14		.23								†								2.87
Seaford					.70	†	†	.16	2.23						.25		.64																3.98

† Trace, when precipitation is less than 0.01 inch.