

Recd Aug. 5, 1896

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CO-OPERATING WITH THE

MARYLAND STATE WEATHER SERVICE

Established by an Act of the General Assembly of the State of Maryland, 1892,
and Maintained in Connection withThe Johns Hopkins University and the Maryland Agricultural College.
CENTRAL OFFICE, JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD.PROF. WM. B. CLARK,
JOHNS HOPKINS UNIVERSITY,
Director.PROF. MILTON WHITNEY,
MARYLAND AGRICULTURAL COLLEGE,
Secretary and Treasurer.G. E. HUNT, U. S. WEATHER BUREAU,
Section Director, Local Forecast Official and
Meteorologist in charge.

VOL. VI, No. 3.

MONTHLY REPORT.

JULY, 1896.

Contains Review for the Month of June.

Review of the Month---June.

WEATHER.

Temperature (degrees).—Monthly mean (entire territory), 70.4, being 1.7 degrees below the normal; highest monthly mean, 76.1, at Annapolis; lowest monthly mean, 63.0, at Deer Park; highest temperature, 100, at Westernport, on the 20th; lowest temperature, 32.0, at Deer Park on the 2nd; greatest local monthly range, 58.0, at Westernport; least local monthly range, 28.0, at Annapolis; monthly mean range, 41.8; monthly mean maximum, 79.7; monthly mean minimum, 61.0.

Precipitation (in inches).—Average, 4.03 inches, being 0.57 inch above the normal; greatest amount, 7.63 inches, at Dover, Del.; least amount, 1.61 inches, at Distributing Reservoir, D. C.

Wind.—Prevailing direction, southwest. Total movement, in miles, Baltimore, 4,955.

Thunderstorms.—At Bachman's Valley, on the 8th, 9th, 16th; at Cambridge, on the 13th, 19th; at Charlotte Hall School, on the 7th, 9th, 16th, 17th, 26th, 28th; at Cherryfields, on the 7th, 8th, 9th, 13th, 16th, 17th, 18th, 26th; at Dover, Del., on the 8th, 9th, 28th; at Frederick, on the 6th, 7th, 8th, 9th, 13th, 16th; at Green Spring Furnace, on the 6th, 7th, 8th, 9th; at Grantsville, on the 5th, 6th, 7th, 8th, 9th, 16th, 17th, 21st, 22nd, 24th, 25th, 26th, 28th; at Jewell, on the 7th, 8th, 9th, 13th, 16th, 17th, 26th; at Laurel, on the 9th, 15th, 26th, 28th; at Mardela Springs, on the 6th, 7th, 8th, 9th, 13th, 16th, 17th, 18th, 19th, 21st, 22nd, 28th; at Millsboro, on the 7th, 9th, 10th, 17th, 19th, 21st, 22nd; at New Market, on the 8th, 9th, 13th, 26th; at Pocomoke City, on the 18th, 19th; at Princess Anne, on the 8th, 9th, 22nd; at Seaford, Del., on the 7th, 8th, 9th, 10th, 14th, 17th, 21st; at

Sharpsburg, on the 6th, 7th, 8th, 16th, 21st, 26th; at Sunnyside, on the 5th, 8th, 9th, 16th, 17th, 21st, 22nd, 24th, 25th, 26th, 28th; at Solomon's, on the 7th, 8th, 9th, 13th, 16th, 17th, 26th, 28th; at Wilmington, Del., on the 8th, 9th; at Woodstock College, on the 9th, 10th, 14th, 17th, 22nd, 27th.

Frost, killing.—At Bachman's Valley, on the 2nd.

Fogs, dense.—At Bachman's Valley, on the 18th, 25th; at Wilmington, Del., on the 26th; at Green Spring Furnace, on the 26th.

Halos, Solar.—At Jewell, on the 2nd, 3rd.

Coronas, Lunar.—At Millsboro, on the 18th; at Wilmington, Del., on the 20th, 21st, 26th.

CROPS.

Week ending June 8th.

The week was generally favorable to vegetation, with abundance of rainfall and thermal conditions about normal. Crops were reported doing well in nearly all sections, with haying at hand, but a short crop apparent in most districts. Peaches were reported dropping badly in some places. Prospects for a good apple crop were poor. Corn and potatoes were doing well, although cutworms were doing much damage to the former crop in many places.

Week ending June 15th.

The weather was generally cool during the week, with precipitation above the normal, except in the northeast counties. A small amount of sunshine was given. Nearly all crops were generally doing well. In Western Maryland the reports were more favorable for a fairly good hay crop. Tobacco was reported doing well. Pastures and gardens were much improved by rains during the week.

Week ending June 22nd.

The temperature and precipitation were both in excess of the normal during the week, and a favorable progress of all crops was made, although some damage was done in places by the heavy rains. In Southern Maryland a large acreage of sweet potatoes was planted. Tobacco, corn, potatoes and truck crops were looking well. Peaches were still promising a good yield; apples scarce. Pastures were reported in good condition.

Week ending June 29th.

The week, though cool, was favorable to growing crops. Wheat harvest was delayed in some sections, owing to frequent rains and cloudy

weather. Melons, corn, peaches, potatoes, tobacco and truck were all doing finely. Early peaches were being shipped to market. Pastures and gardens were in excellent condition.

Notes by Observers.

Cherryfields.—On the 13th inst. lightning struck and killed a young man and a horse near here. It also struck a house, stunning a lady, on the same date.

Cumberland.—June has been regarded as a cool month, although the average temperature was three degrees above the normal.

Grantsville.—The month has been remarkably wet; pastures, oats and potatoes were never better.

DAILY PRECIPITATION FOR JUNE, 1896.

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	Tot.
Sunnyside				.07	T			.45	.40	.22			.78	.06		.58	.02					1.42	.12	.64	.26	.25	T	.61			5.88	
Oakland				.77					.37	.40	T		.08			.25	.34						.50	.32							4.23	
Deer Park				.30	.27	.32	.35	.02	.33	.50			.30	.05		.70	.30				.70	.02	.33	.38	.30	.07	1.20				5.88	
Grantsville			.20				.80	.40	.35			.05	.40	.02		1.05	.35			.03		.05	.33	.38		.04	.32				4.77	
Westport			.30				.80	.70	.40			.20	T		1.00	.30	.10			.08	.61	.20	.10	.80	.30	.20					5.80	
Boetcherv.						.25	.40	.35	.21				.42			.80	.11				.61	.10	.10	.80	.30	.20					5.17	
Cumber'ld.						.29	.44	.52	.32				.05	.19			.50	.11				.66	.13	.48	.47						4.22	
Cumber'ld.						.17		.35	.63				.70	.25		.40	.05					.15	T	.60	.28	.29					4.36	
Flintstone.										.35																						
Hancock				.08		.07	.95	.15	.42	.45			.90		.03	.24	.01							.67	.07	.58					4.40	
Gr'nSp. Fur.						2.20	.05	.35	.68			.08	.07		.08						1.03			.42	.32	.16					5.79	
Hagersto'n.				.23		1.50	.67	1.08	.51			.42	.18	T	.34	T						.22	T	.21	.22						5.28	
Sharpsburg				T		.02		T					1.06		.03	.02						.04		1.02	.01	T					4.00	
Mts.M'y's Coll.				.21	.11	.12	1.05	.50	.05				1.05	T	.17							T			.22	.27					3.83	
Fred'k.				.09		T		.62	.24				.40	.56		.80	.06	.22				T		T	.13	.26	.05				3.57	
New Mark't				T			.05	.60	.43	.12			.75	1.20		.19	T					T		.48	.17	.93					5.09	
Bach. V'y.																																
W. Md. Coll.					.10					.45				.55	.06								.20	.10	.10	.05		T	T		2.50	
Woodst. Coll.				T			T	.99	.33	.08			.19	.02		1.27	.01	.01				.54	T	T	.07	.08	.22				3.94	
Baltimore.				T	.14			.51	.35				.31	.22		.68								.12	.19		.21				2.90	
St. Chas. Coll.					.45				.85	.20			1.00		.10	.23									.14						3.44	
Great Falls				.04			.02		1.08	.20				.34		.70	.01		.16			.03			.36	.03	.06	.04				4.07
Falls'n Sch.		.03					T	1.08	.49				.31	T	.10	.45	.15						.22	.11	.03						3.10	
Van Bibber				T			.80	.54	.39						1.21	.06					.26			.54	.04						3.40	
Darig'nAcad'y								1.01	.40						.97	.26								.09	.04	.18					3.11	
Annapolis.				.05			T	.25	.68	.75			.15	.20	T	1.85	.53		.10				T	T	T	T					4.75	
Jewell				.14				.51	.23				.61	.54			.16								.03							1.61
Dist. R., D.C				.25				.55	.80							.08	.06															2.66
Rec. R., D.C										.28			.08	.31			.23	.03				T	T	T	.02		.01				2.00	
Wash., D. C.				.06				.40	.19	.28																						
Md. Agr' Coll.																																
Up. Marl.				.15				.30	.65						.78	.12																3.15
Laurel				.31			.50	.10	1.10	.01			.98	.15	.04	.21	T		.01	.01		T	T	T	T	.15	1.00				3.97	
Solomon's.				.39			.64		.71	.45			.34	.57	T	.55	.44						T	T	.02		.20				4.38	
Charl. Hall Sch.				.18			.09	.03	.27	.05			1.30	.59	.01	.41	.02					.02			T	T	.12				3.39	
Cherryfields.								.71	.86				.35	T	.44	.72	.30														3.33	
Chestert'n.				T				1.06	1.27					.82		1.03							.34									5.33
Denton										2.02				.34	.18		.17	.13					.24		T	.02		.03				3.76
Easton																																
Cambridge.								T	.17	.15			T	.49		.05	.50					.02	T								1.90	
Mardela Sp.								.69	.24	.15			.02	.46		.45	T					1.30			T	.02					3.03	
Princess An.								.81	.10				.05	.54		.93	.02	.13					.20		.01	T					1.72	
Poc'm'k Cit.				.02				.17	.86	.09			.11	1.27		.98	.12						T		.39	.15						4.41
Wilm't. Del.																.86																3.05
Delaware College				.05			.13		.25	.22					.86		.89	.04				T			.45	.08	.08					
Dover, Del.								.33	.33	.47			1.63			2.92		.21							.12							7.63
Milford, Del.								.42		1.42			1.74			1.63	.43	.69							.10			1.55				6.88
Millsb'o. Del.							.45		.39	.05			1.33			.70	.20	.06					.04	.10		.04	.13					3.85
Seaford, Del.								.36	.81	.02			1.18	T		.13	.13	2.20	.06				.86									5.81
Phila. Pa.																.90	.18	.82		1.89												
Warsaw, Va.				.30					.10																							5.80
Birdnest, Va.				.05					.50	.30			.20	T																		1.35
Norfolk, Va.																																

NOTE.—"T" indicates a trace of rain or melted snow. † Record incomplete.

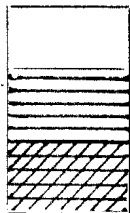
MONTHLY SUMMARY OF REPORTS FOR JUNE, 1896.

STATIONS.	COUNTIES.	Altitude above sea in ft.	Latitude.	Longitude.	TEMPERATURE.							Total Precipitation.	Total Snow-fall.	Clear Days.	Partly Cloudy Days.	Cloudy Days.	Rainy Days. (0.1 in. or more)	Prevailing Winds.	
					Monthly Mean.	Mean of Max.	Mean of Min.	Max.		Min.									Monthly Range.
								Degrees.	Date.	Degrees.	Date.								
WESTERN MARYLAND.																			
Sunnyside	Garrett	2440	39°20'	79°21'	64.0	76.0	62.0	85	7, 20	33	2	52	5.88	11	5	14	14	S. W.	
Deer Park	Garrett	.....	.....	.....	63.0	75.9	50.2	85	7, 20	32	2	53	4.23	.....	.....	.....	.....	.....
Grantsville	Garrett	2457	39 25	79 20	63.4	74.7	52.0	86	20	37	2	49	5.88	.....	.....	.....	.....	.....
Westernport	Garrett	2100	39 45	79 10	71.5	86.3	56.9	100	20	42	1	58	4.77	.....	.....	.....	.....	.....
Frostburg	Allegheny	1000	39 45	79 2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boetherville 1*	Allegheny	900	39 39	78 48	69.3	77.8	60.8	88	20, 21, 22	48	2	40	5.80	.....	.....	.....	.....	.....
Cumberland	Allegheny	650	39 39	78 46	73.4	b82.6	a64.2	93	20	53	2	40	5.17	.....	.....	.....	.....	W.
Cumberland	Allegheny	650	39 39	78 46	68.7	77.6	59.8	88	21, 22	50	2	38	4.22	7	12	11	13	.....
Flintstone	Allegheny	.....	.....	.....	68.2	81.3	55.0	91	20, 21	39	2	54	4.36	4	15	1	13	.....
Hancock	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Green Spr. Furnace	Washington	500	39 38	77 53	69.8	81.9	57.7	93	21	44	2	49	4.40	.....	.....	.....	.....	W.
Hagerstown	Washington	550	39 39	77 43	71.1	82.1	60.1	93	20, 21	44	2	44	5.28	.....	.....	.....	.....	.....
Sharpsburg	Washington	420	39 25	77 44	69.2	79.0	59.5	91	21	45	2	46	5.79	13	10	7	13	S.	
NORTHERN-CENTRAL MD.																			
Burkittsville	Frederick	.....	39 25	77 35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mt. St. Mary's Coll.	Frederick	720	39 40	77 20	69.4	a78.5	b60.2	90	21	50	3, 12	40	4.00	.....	.....	.....	.....	.....
Frederick	Frederick	250	39 25	77 25	70.2	80.1	60.3	93	21	47	2	46	3.83	5	23	2	11	.....
Woman's Coll. Fred.	Frederick	.....	39 25	77 25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Market	Frederick	550	39 23	77 16	b72.9	b81.5	b64.3	92	20	46	2	46	3.57	11	12	5	12	N. W.	
Bachman's Val.	Carroll	.....	39 37	78 55	68.0	78.8	57.2	94	20	41	2	53	5.09	14	8	8	11	N. W.
Western Md. Coll.	Carroll	.....	39 25	77 0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Westminster	Carroll	.....	39 25	77 0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McDonogh School	Baltimore	545	39 23	76 46	68.4	75.0	61.8	88	21	52	2	36	.....	.....	.....	.....	.....	.....
Woodstock College	Baltimore	392	39 20	76 49	a69.2	a79.5	a59.0	92	21, 22	46	2, 3	46	2.50	8	10	11	10	S. E.	
Baltimore	Baltimore	400	39 20	76 52	71.3	79.3	63.3	93	21	54	2, 5	39	3.94	6	11	13	13	S. W.	
Johns Hopkins Hos.	Baltimore	124	39 17	76 33	70.9	79.9	61.9	93	21	52	2	42	.....	.....	.....	.....	.....	N.
St. Charles Coll.	Howard	.....	39 16	76 44	70.2	76.1	64.4	86	8, 11, 21,	54	14	32	2.90	17	2	11	10	N. W.
nr Ellicot City.	Howard	300	39 16	76 44	70.2	76.1	64.4	86	8, 11, 21,	54	14	32	2.90	17	2	11	10	N. W.	
Great Falls**	Montgomery	150	39 0	77 15	72.2	.....	.....	90	21	58	1	32	3.44	.....	.....	.....	.....	.....
Fallston School 1*	Harford	450	39 30	76 24	69.6	.....	.....	88	20	57	15, 25	31	4.07	3	23	4	13	S. E.
Van Bibber	Harford	.....	.....	.....	70.0	69.9	60.3	93	29	52	1, 2, 14	41	3.10	.....	.....	.....	.....	N. W.
Darlington Acad'y.	Harford	300	39 38	76 12	69.5	77.9	61.1	89	20, 21	43	1	46	3.40	18	8	9	9	S. W.	
SOUTHERN MARYLAND.																			
Annapolis	Anne Arund'l	20	38 58	76 30	76.1	82.0	70.2	91	21	63	3, 10, 11, 14, 15, 16	28	3.11	16	.....	14	8	.....
Jewell	Anne Arund'l	165	38 45	76 37	71.2	79.1	63.2	88	8	52	2	36	4.75	12	11	7	10	S. W.	
Dist. Res., D. C.*	.....	120	38 55	77 6	72.3	.....	.....	90	21	56	3	34	1.61	.....	.....	.....	.....	.....
Rec. Res., D. C.*	.....	160	38 57	77 7	72.4	.....	.....	89	21	56	3	33	2.66	.....	.....	.....	.....	.....
Washington, D. C.	.....	112	38 54	77 3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Md. Agric't. Coll.	Pr. George's	170	38 58	76 56	68.9	79.3	58.5	92	20	45	2	47	2.00	.....	.....	.....	.....	.....
College Park	Pr. George's	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Upper Marlboro	Pr. George's	60	38 47	76 45	70.4	82.2	59.6	95	8	49	2	46	3.15	6	17	7	7	.....
Laurel	Pr. George's	.....	.....	.....	70.4	82.2	59.6	95	8	49	2	46	3.15	6	17	7	7	.....
Solomon's	Calvert	20	38 19	76 27	73.8	82.0	65.5	92	20	55	2	37	3.97	4	4	22	13	S. E.	
Charlotte Hall Sch'l	St. Mary's	187	38 48	.....	70.8	80.0	61.6	89	8, 20, 21	49	2	40	4.38	12	14	4	11	S. W.
Cherryfields 2	St. Mary's	20	38 11	76 24	71.7	.....	.....	.....	.....	.....	.....	.....	3.39	8	21	6	13	S. W.
EASTERN MD. AND DELAWARE.																			
Chestertown	Kent	80	39 13	76 4	71.8	82.6	61.0	88	20	50	1	38	3.33	.....	.....	.....	.....	.....
Denton	Caroline	42	38 53	75 30	71.0	81.8	60.3	90	9	51	2, 15	49	5.33	.....	.....	.....	.....	.....
Easton	Talbot	35	38 46	76 5	69.6	79.0	60.2	88	8	50	1, 2, 3	38	3.76	15	8	7	12	W.	
Cambridge	Dorchester	.....	38 44	76 7	e71.5	e80.2	e62.8	96	19	54	3	42	.....	7	3	16	.....	SW NW
Mardela Springs	Wicomico	25	38 28	75 45	71.8	80.1	63.6	89	8	51	2, 3	38	1.90	9	14	7	7	SE SW	
Princess Anne	Somerset	20	38 12	75 41	70.0	79.0	60.2	89	22	46	2, 3	43	3.03	7	18	5	9	S. W.	
Pocomoke City	Worcester	37	38 5	75 34	74.2	82.8	65.6	92	22	53	2	39	1.72	9	10	5	9	S.	
Wilmington, Del.	Newcastle	115	39 44	75 33	72.6	84.3	60.8	97	8	42	15	55	4.41	9	15	6	11	W SW	
Delaware College	Newcastle	.....	39 40	75 37	69.0	78.5	59.5	90	20	48	3, 4	42	3.05	6	18	6	9	S. W.
Newark, Del. ...	Newcastle	.....	39 40	75 37	69.0	78.5	59.5	90	20	48	3, 4	42	3.05	6	18	6	9	S. W.
Dover, Del.	Kent	40	39 10	75 30	70.0	77.8	62.3	90	8	52	11, 15	38	7.63	15	7	8	9	NW SW	
Milford, Del.	Kent	.....	38 55	75 25	71.6	81.1	62.1	91	20, 21	52	2, 3	39	6.88	18	2	10	9	S. W.
Seaford, Del.	Sussex	.....	38 40	75 35	70.0	78.7	61.9	88	21	51	15	37	5.81	.....	.....	.....	.....	.....
Millsboro, Del.	Sussex	.....	38 44	75 15	71.3	80.5	62.1	91	21	50	15	41	3.85	13	15	2	13	N.
PENNSYLVANIA. ‡																			
Philadelphia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
VIRGINIA. †																			
Warsaw	Richmond	.....	.....	.....	78.5	83.4	63.7	92	20	55	2, 3, 5	37	5.80	5	19	6	8	S.
Birdsnest 1*	Northampton	.....	.....	.....	74.9	.....	.....	90	21, 22	63	1	27	1.35	10	13	7	5	S. W.
Norfolk	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AVERAGES																			
Western Maryland	.....	.....	.....	.....	68.3	79.6	58.0	90.8	.....	42.9	.....	47.5	5.07	8.4	11.6	7.0	13.5	W SW
Northern-Cent'l Md.	.....	.....	.....	.....	70.1	77.9	61.3	90.9	.....	50.2	.....	40.8	3.62	10.3	11.5	7.9	10.5	SW W
Southern Maryland	.....	.....	.....	.....	72.0	80.8	62.9	90.8	.....	53.1	.....	37.6	3.22	8.8	11.4	10.0	9.3	W
East. Md. and Del.	.....	.....	.....	.....	71.0	80.5	61.7	90.7	.....	50.0	.....	41.5	4.22	10.8	11.6	7.2	9.2	S. W.
Entire territory	.....	.....	.....	.....	70.4	79.7	61.0	90.7	.....	49.0	.....	41.8	4.03	9.6	11.5	8.0	10.8	S. W.

* Extremes of temperature from observed readings of dry thermometer. A numeral following the name of a station indicates the hours of observation from which the mean temperature was obtained, thus:
 † Mean of 7 a. m. + 2 p. m. + 9 p. m. + 4. ‡ Mean of 8 a. m. + 5 p. m. + 2. § Mean of 7 a. m. + 2 p. m. + 2.
 The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers. Letters of the alphabet are used to denote the number of days that are missing from record; for instance, "a" denotes 1 day missing. † Omitted in computing averages. ‡ Received after report had gone to press and therefore omitted in computing averages and in preparing map.

MAP OF
MARYLAND AND DELAWARE
 SHOWING
 THE PRECIPITATION
 AND
 LINES OF MEAN TEMPERATURES
 FOR JUNE, 1896.

Scale of Shades:

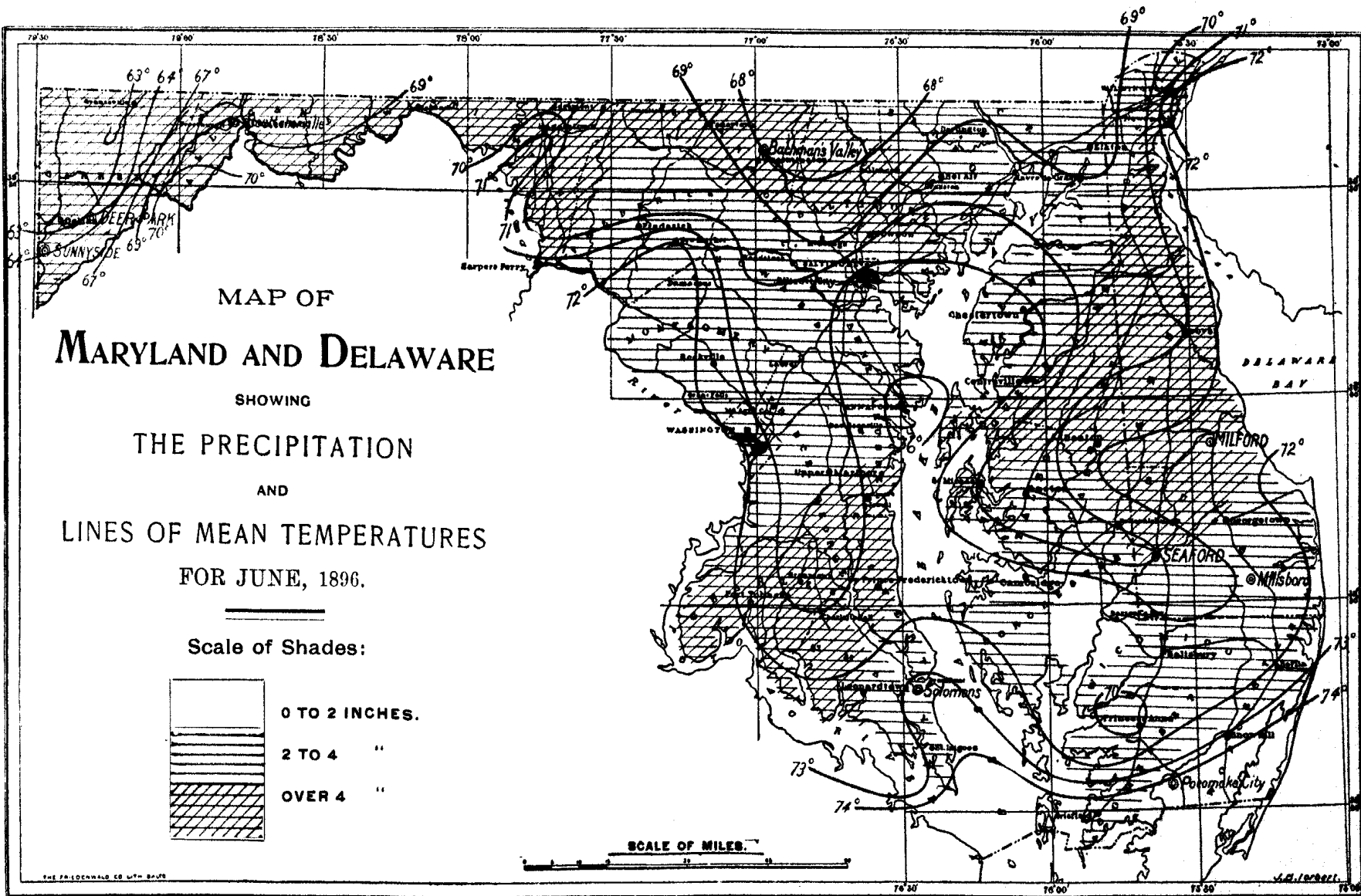


0 TO 2 INCHES.

2 TO 4 "

OVER 4 "

SCALE OF MILES.



Meteorological and Weather Signal Display Stations of the Maryland State Weather Service.

Stations.	Counties.	Meteorological Observers.	Displaymen.
Annapolis	Anne Arundel	J. E. Abbott	W. M. Abbott.
Appleton	Cecil		W. C. Henderson.
Bachman's Valley	Carroll	J. M. Myers.	
Baltimore		G. E. Hunt.	Weather Bureau.
Baltimore, (The Anchorage)			Thos. Hansen.
Bel Air	Harford		N. N. Nock.
Boettcherville	Allegany	F. F. Brown.	
Bradshaw	Baltimore		B. F. Taylor.
Buckeystown	Frederick		A. W. Nicodemus.
Burkittsville	Frederick	J. P. Slifer.	
Cambridge	Dorchester	J. S. Shepherd.	Samuel Lehman.
Charlotte Hall School	St. Mary's	J. Francis Coad.	
Cherryfields	St. Mary's	J. Edwin Coad.	
Chestertown	Kent	Hon. M. deK. Smith.	
Cumberland	Allegany	Shriver and Rizer.	
Darlington Academy	Harford	Webster Bruce.	
Deer Park	Garrett	Prof. A. F. Galbreath.	
Delaware City, Del.	New Castle	S. P. Specht.	W. E. Reybold.
Delaware College, Newark, Del.	New Castle	Prof. Wm. H. Bishop.	
Denton	Caroline	F. C. Ramsdell.	
Dickerson	Montgomery		W. H. Dickerson.
Distributing Reservoir, D. C.		Washington Aqueduct.	
Dover, Del.	Kent	Jno. S. Jester.	
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Fallston School	Harford	G. G. Curtiss, A. M.	
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Great Falls	Montgomery	Washington Aqueduct.	
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Jewell	Anne Arundel	Jos. Plummer.	
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Middletown	Frederick		G. C. Rhoderick, Jr.
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Millsboro, Del.	Sussex	Rev. L. W. Wells.	
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Princess Anne	Somerset	Jas. R. Stewart.	
Pocomoke City	Worcester	R. M. Stevenson	R. M. Stevenson.
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Rising Sun	Cecil		Dr. L. R. Kirk.
Salisbury	Wicomico		W. Benjamin.
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Sharpsburg	Washington	R. L. Hiberger.	H. L. Wallace.
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Solomon's	Calvert	W. H. Marsh, M. D.	
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Sunnyside	Garrett	John G. Knauer.	
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Upper Marlboro	Prince George's	J. B. Perrie.	
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Washington, D. C.		S. W. Beall.	
Western Port	Allegany	Prof. O. H. Bruce.	
West Friendship	Howard		Postmaster.
Westminster	Carroll	Prof. Roland Watts.	
Westover	Somerset		E. D. Long.
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