

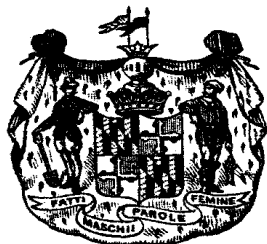
Rcd Sept. 9, 1896

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 with



The 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. 4.

MONTHLY REPORT.

AUGUST, 1896.

Contains Review for the Month of July.

Temperature (degrees).—Monthly mean (entire territory), 76.0, being 0.9 above the normal; highest monthly mean, 82.4, at Annapolis; lowest monthly mean, 68.0, at Sunnyside and Grantsville; highest temperature, 99.0, at Westernport, on the 13th, Wilmington, Del., on the 29th; lowest temperature, 40.0, at Deer Park, on the 17th, Sunnyside, on the 17th; greatest local monthly range, 51.0, at Sunnyside and Westernport; least local monthly range, 18.0, at Cherryfields; monthly mean range, 37.4; monthly mean maximum, 85.2; monthly mean minimum, 66.9.

Precipitation (in inches).—Average, 5.22, being 1.45 above the normal; greatest amount, 15.27, at Sunnyside; least amount, 2.34, at Easton.

Wind.—Prevailing direction, southwest. Total movement, in miles, Baltimore, 4,955; Norfolk, Va., 6,500.

Thunderstorms.—At Sunnyside, on the 2nd, 3rd, 5th, 12th, 14th, 15th, 22nd, 24th, 27th, 28th, 29th, 30th; at Cambridge, on the 6th, 27th, 30th; at Grantsville, on the 3rd, 4th, 13th, 14th, 15th, 20th, 24th, 27th, 28th, 29th, 30th; at Princess Anne, on the 24th; at Solomon's, on the 4th, 6th, 10th, 13th, 21st, 22nd, 24th, 28th; at Flintstone, on the 27th; at Wilmington, Del., on the 7th, 9th, 27th, 29th, 30th; at Laurel, on the 27th, 29th; at Charlotte Hall, on the 3rd, 6th, 24th, 28th, 31st; at Green Spring Furnace, on the 30th; at Newmarket, on the 4th, 5th, 14th; at Dover, Del., on the 26th, 29th, 30th; at Taneytown, on the 4th, 15th, 27th, 29th; at Newark, Del., on the 27th; at Bachman's Valley, on the 6th, 12th, 15th, 22nd, 27th, 29th, 30th;

at Millsboro, Del., on the 6th, 13th, 16th, 21st, 24th, 27th; at Seaford, Del., on the 5th, 16th, 22nd, 23rd, 27th, 30th; at Cherryfields, on the 3rd, 6th, 10th, 15th, 16th, 22nd, 25th; at Jewell, on the 3rd, 5th, 6th, 10th, 15th, 24th, 27th, 28th, 29th, 30th.

Hail.—At Taneytown, on the 29th; at Oakland, on the 30th.

Fogs, dense.—At Wilmington, Del., on the 3rd; at Millsboro, Del., on the 2nd.

Halos, Solar.—At Jewell, on the 2nd, 28th.

Halos, Lunar.—At Taneytown, on the 29th.

Coronæ, Lunar.—At Wilmington, Del., on the 15th, 23rd.

Rainbows.—At Bachman's Valley, on the 2nd, 28th; at Taneytown, on the 29th.

Notes by Observers.

Sunnyside.—On the 30th this section was visited by the most violent thunderstorm ever known, as regards damage to fruit trees, etc.

Grantsville.—The month of July was the most remarkable for rain I ever saw.

Oakland.—Heavy rains on the 26th and 30th caused the lower part of the town to be flooded, the water rising 26 inches higher than ever before known. Much damage was done; bridges, platforms, etc., being swept away, while large numbers of fruit trees were laid waste. The storms were accompanied by much thunder and lightning.

Seaford, Del.—The storm of the 27th was very severe, and accompanied by heavy rainfall.

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

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	To-tal.	
Sunnyside..		T	T	.68	.94	T	T	.94	.07			.02	T	.57	.92	.38					3.20	1.49	.10	3.10	.34	T		1.26	.26	1.00		15.27	
Oakland..					.60				.70					.95	1.05						1.75	1.56		4.10				1.47	.22	1.25		13.65	
Deer Park..				.10	.25	.32			1.00			.03	.30	.20	.55					.22	.50	.60		2.70			1.70			1.00		10.17	
Grantsville..			.51	.10				.80			.04		.10	.02	.26				.22	.60	.46	1.75	.95				1.13	.14	.42	.10	7.60		
West'nport..			.10		.10				1.30					.20	.40				.10		.40	.50	2.50				.20	.30		.20	6.30		
Boethocherv..									1.00						.05	.21					.16	.26	.24	.60	1.61		.21	.45			.18	5.16	
Cumb'rld } Bruce... }					.19																												
Cumb'rld } Shriver... }			.03		.10			1.00					.10	.10							.41	.25		2.20			.21	.22		.05	.10	4.77	
Flintstone..		T	.12					.63	.47					.35							.60	.17		1.86	.04		.30			.20		4.74	
Gr'nSp.Fur..		.03	.35		.44			.12	.77					.21	.04	.21					.85	.13		1.42				.10		.07		4.38	
Hagerston..			1.55	.05	1.35			.57	.10				.11	.11	.03						.81			1.10			.40					6.08	
Sharpsburg..			.14	.02	.24			.12	.43			T	T	T							.25	.33	2.34				.11		.03		.15	4.16	
Mt.St.M'y's Coll.														.05		T					.06	.13	.26	1.30				.03	.15	.06		4.67	
Fred'k... }		.38	.05		.60			1.60						.05		T																	
New Mark't } Bach. V'y }		T	.17	.40				.57					.07	.04		T					.46	.24		1.14			T	T	.41	T		3.43	
Taneytown..			.06	T	.19	T		.41	.94	T				.09	T						.06	.30	.94		.49		.28	T	T	.61		4.42	
Woodst.Coll.			.05	.21	T	.11	T	.62	.06						.02					.44		1.50	.43	.38				.06		.97		4.85	
Baltimore..			.05	T	.33	.14		.76	.08	.62	T		.49	T	T	.21					T	2.02	.04	.77			.05	.51	.15	.10		6.32	
St.Chas.Coll.				.14				.38	.75	.45	.08	.21	T		.28	.15						.44			.57				.24	T		2.95	
Great Falls..			T	.26		.20	.02	.38	.75	.45	.08	.21	T		.62	.02				T	.76		.02	.53			1.09		T	.07		4.33	
Falls'n Sch..				.18	T	.20		.07	1.04					.25	T					T	.26		.45					.85	.09			2.44	
Van Bibber..				.45			T			.23										T	.55	.10	.24				.98		.47			5.02	
Darr'g'nAcad'y																																	
Annapolis..																																	
Jewell....		.70	T	T	.15	T		.76	.46				T		.08						.67	T		.60					T	.23		3.75	
Dist. R., D.C			.46	.04		.04		.20	1.04					.04	.25						.92				.42							3.73	
Rec. R., D.C				.06		.05	.04	1.35	.06	.02				.02	.24	.28					1.12				.52					.10		3.83	
Wash., D.C																																	
Md. Agr'l Coll.			.05	.01	.04	.02	.16	1.01								.36					T	.47		.72						.34	.05	3.23	
Up. Marlb..																																	
Laurel....						2.50	1.64	.25							.40						1.12			.85			.55			.58		7.89	
Solomon's..			T	.02	T	1.10	.37	.46	.02	.46		T	T		.34						.05	.77		.62				.25	.05			4.51	
Charl. HallSch		.13	T	.24	T	.24	T	.34	.62	.18					T	.34					.42	T		.37				.49		.03		2.82	
Cherryfields..		.01		.10	3.74	.24	.40	.24	1.09					.02	.54						1.14	.10		.45				.29	.20			8.56	
Chester'n..			T	.31	T	.06	.15	.46				.10		.06	1.61					T			.91				.86		.36			4.87	
Denton....																																	
Easton....			.05			.38		.24	.21	.01				.13										1.20				.12				2.34	
Cambridge..																																	
Mardela Sp..			T			.29		.52				.55		.03	.51					.17	.11		.08					.16	T	.15		3.15	
Princess An..			.27	2.61	.81	1.01			.21	.14				.38							T	.15		.79					.12	T		6.49	
Poc'm'k Cit																																	
Wilm't, Del.			T		.06	.10	T	.33	.01					.11							T	.67		.19				1.17		.41		3.03	
Delaware }					.06	.16			.59					.02	T						T	.33	.01	.22				1.75		.51		2.61	
College }																																	
Dover, Del..				.45	.29			.20		1.34				.46									.06	.02	.75		.54				.64		4.75
Milford, Del			.29		.11	.05	.10	.16	.13					.05								.07	.15		1.09			1.18		.04		3.80	
Seaford, Del		T		.70	.37	.39	.27	T	.28					.62								.13	.11	.41				3.00		1.20		7.50	
Millisb'o, Del		.10		.15	.79	.31	.73		.20				.11	.05								.06	.21		.54			2.11		.42		6.59	
Phila., Pa..																																	
Warsaw, Va			.05		.62	1.50		1.30	.18	1.28					.50	1.25						.12			.38				1.40	.10		8.68	
Birdsneast, Va	T	T		T	.60	.40	.15	T	.28	T					1.00						.50		.15	T					.15			2.75	
Norfolk, Va		.20	.97		.28	.15	.50	.96	.23	.03	.29	T			.88	.60		T			.62	.72	.01	.01	.05				.20			7.26	

MONTHLY SUMMARY OF REPORTS FOR JULY, 1896.

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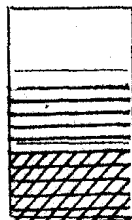
STATIONS.	COUNTIES.	Altitude above sea in ft.	Latitude.	Longitude.	TEMPERATURE.										Total Precipitation.	Total Snow-fall.	Clear Days.	Partly Cloudy Days.	Cloudy Days.	Rainy Days. (0.01 in. or more)	Prevailing Winds.															
					Monthly Mean.	Mean of Max.	Mean of Min.	Max.		Min.		Monthly Range.																								
								Degrees.	Date.	Degrees.	Date.																									
WESTERN MARYLAND.																																				
Sunnyside.....	Garrett.....	2440	39°20'	79°21'	68.0	78.0	57.9	91	13	40	17	51	15.27		14	7	10	16	S. W.																	
Deer Park.....	Garrett.....	2457	39 25	79 20	67.6	78.4	56.8	86	27	40	17	46	13.65					15	S. W.																	
Grantsville.....	Garrett.....	2100	39 45	79 10	68.0	78.4	57.5	87	27	44	17, 18	43	10.17		4	20	7	10	S. W.																	
Westernport.....	Garrett.....	1000	39 45	79 2	75.3	89.2	61.4	99	13	48	17	51	7.60																							
Frostburg.....	Allegany.....	900	39 39	78 48	73.4			92	30	54	19	38	6.30					12																		
Boettcherville ¹ *	Allegany.....	650	39 39	78 46	76.0	85.4	66.5	96	1	54	17	42	4.77					12																		
Cumberland.....	Allegany.....	650	39 39	78 46	74.0	83.0	65.1	92	29	50	17	42	5.16		14	5	12	12																		
Shriver & Rizer {	Allegany.....	500	39 38	77 58	74.0	87.1	60.8	94	27, 28	45	18	49	4.74		6	11	14	10																		
Cumberland {	Washington.....	550	39 39	77 43	74.8	86.1	63.6	94	27	55	10	39	4.38		14	15	2	13	W.																	
Webster Bruce {	Washington.....	420	39 25	77 44	77.0	87.1	67.0	96	27	55	18	41	6.08		8	12	11	11	S. W.																	
Flintstone.....	Washington.....				75.1	84.3	65.9	95	27	52	18	43	4.16		17	8	8	11	S. W.																	
Green Spr. Furnace																																				
Hagerstown.....																																				
Sharpsburg.....																																				
NORTHERN-CENTRAL MD.																																				
Mt. St. Mary's Coll.	Frederick.....	720	39 40	77 20																																
Frederick.....	Frederick.....	250	39 25	77 25	76.1	85.5	66.8	95	27	53	18	42	4.67		7	22	2	12																		
Woman's Coll. Fred.	Frederick.....		39 25	77 25																																
New Market.....	Frederick.....	550	39 23	77 16	78.0	88.5	70.4	94	27	58	9	36	3.87		18	5	8	8	S. W.																	
Bachman's Val.....	Carroll.....		39 37	76 55	74.4	84.2	64.7	95	27	52	18	43	4.42		17	8	6	12	S. W.																	
Taneytown.....	Carroll.....		39 25	77 0	76.8	88.0	65.7	96	13	53	18	43	4.85		9	12	10	12	S. E.																	
McDonogh School..	Baltimore.....	545	39 23	76 46																																
Woodstock College	Baltimore.....	392	39 20	76 49																																
Baltimore.....	Baltimore.....	400	39 20	76 52	77.7	85.8	69.6	96	27	61	18	35	6.32		4	13	14	15	S. W.																	
Johns Hopkins Hos	Baltimore.....	124	39 17	76 33	77.2	86.1	68.2	95	27	59	1	36			10	9	12		S. W.																	
St. Charles Coll. {	Howard.....	300	39 16	76 44																																
nr Ellicott City. {	Howard.....																																			
Great Falls ²	Montgomery.....	150	39 0	77 15	77.7			92	27	63	18	29	2.95					8																		
Fallston School ¹ *	Harford.....	450	39 30	76 24	74.7			89	12, 13, 14	60	18	29	4.33		3	25	3	13	S. W.																	
Van Bibber.....	Harford.....				77.0	86.0	67.9	97	28, 29, 30	60	18	29	4.33					13	S. W.																	
Darlington Acad'y.	Harford.....	300	39 38	76 12	75.7	84.3	67.1	92	14	56	17	41	2.44		17	3	11	18	S. W.																	
	Harford.....								13	55	18	37	3.02		19	5	17	8	S. W.																	
SOUTHERN MARYLAND.																																				
Annapolis.....	Anne Arund'l	20	38 58	76 30	82.4	86.9	77.8	93	13, 28, 29	68	24	25																								
Jewell.....	Anne Arund'l	165	38 45	76 37	76.4	83.7	69.1	92	27	57	18	35	3.75		17	8	6	8	S. W.																	
Dist. Res., D. C. ² *		120	38 55	77 6	78.1			90	13, 27, 28, 29	62	18	28	3.73					10																		
Rec. Res., D. C. ² *		160	38 57	77 7	78.0			92	3	63	18	29	3.83					12																		
Washington, D. C.		112	38 54	77 8																																
Md. Agric't. Coll. {	Pr. George's..	170	38 58	76 56	d74.1	d83.6	d64.6	92	27	51	25	41	3.23					11																		
College Park {	Pr. George's..																																			
Upper Marlboro ..	Pr. George's..	60	38 47	76 45				93	27	55	18	38	7.89																							
Laurel.....	Pr. George's..				76.4	86.3	66.5	93	27	55	18	38	7.89																							
Solomon's.....	Calvert.....	20	38 19	76 27	78.9	86.7	71.1	93	13, 30	62	8	31	4.51		7	7	17	12	S. W.																	
Charlotte Hall Sch'l	St. Mary's.....	167	38 48	76 24	77.0	85.6	68.4	95	27	55	18	40	2.82		13	15	3	9	S. W.																	
Cherryfields ²	St. Mary's.....	20	38 11	76 24	76.4			83	15	65	8	18	8.56		6	21	4	14	S. W.																	
EASTERN MD. AND DELAWARE.																																				
Chestertown.....	Kent.....	80	39 13	76 4	76.0	84.3	68.3	90	29	58	1, 18	32	4.87					10	S. W.																	
Denton.....	Caroline.....	42	38 53	75 30																																
Easton.....	Talbot.....	35	38 46	76 5	76.9	85.4	68.4	92	15, 30	55	18, 19	37	2.34		18	7	6	8	W.																	
Cambridge.....	Dorchester.....		38 44	76 7	e77.9	e86.5	e69.3	93	15	58	18	35			13	7	5		S. W.																	
Mardela Springs.....	Wicomico.....	25	38 28	75 45	77.2	85.4	69.1	92	25, 29, 30	57	1	35	3.15		7	14	10	10	SW NW																	
Princess Anne.....	Somerset.....	20	38 12	75 41	75.6	84.6	66.6	91	30	51	1	40	6.49		8	20	3	10	S. W.																	
Pocomoke City.....	Worcester.....	37	38 5	75 34																																
Wilmington, Del..	Newcastle.....	115	39 44	75 33	80.0	90.0	70.1	99	29	57	1	42	3.03		5	19	7	10	W.																	
Delaware College, {	Newcastle.....																																			
Newark, Del.	Newcastle.....	39	40	75 37	75.9	85.2	66.6	92	13, 27	54	1	38	2.61		7	11	13	9	S. W.																	
Dover, Del.	Kent.....	40	39 10	75 30	76.2	83.4	68.9	90	27	58	1	32	4.75		17	8	6	10	SW W																	
Milford, Del.	Kent.....	38	55	75 25	78.1	87.3	68.9	94	13	56	1	38	3.80		24		7	13	S. W.																	
Seaford, Del.	Sussex.....	38	40	75 35	76.0	84.7	67.4	92	15	56	1, 18, 19	36	7.50					11																		
Millsboro, Del.	Sussex.....	38	44	75 15	77.0	86.2	67.9	92	13, 15, 16, 30	53	1	39	6.59		19	7	5	15	S. W.																	
PENNSYLVANIA.†																																				
Philadelphia.....																																				
VIRGINIA.‡																																				
Warsaw.....	Richmond.....				78.2	88.2	68.2	98	24	54	19	44	8.68		6	23	2	12	S.																	
Birdsneat.....	Northampton				79.0			94	21	63	25	31	2.75		7	16	8	7	S. W.																	
Norfolk.....					79.9	87.5	71.1	98	28	61	17	37	7.26		9	12	10	17	S. W.																	
AVERAGES																																				
Western Maryland..					73.0	83.7	62.2	92.9		48.8		44.1	7.48		11.0	11.1	9.1	17.4	S. W.																	
Northern-Cent'l Md.					78.5	86.0	67.6	94.1		57.0		37.1	4.10		11.6	11.3	9.2	11.8	S. W.																	
Southern Maryland..					77.5	85.5	69.6	91.4		59.8		31.7	4.79		10.7	12.8	7.5	10.9	S. W.																	
East. Md. and Del.					77.0	85.7	68.3	92.5		55.7		36.7	4.51		13.1	11.6	6.9	10.6	S. W.																	
Entire territory.....					76.0	85.2	66.9	92.7		55.3		37.4	5.22		11.6	11.7	8.2	12.7	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. + 9 p. m. + 4. ‡ Mean of 8 a. m. + 8 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

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

Scale of Shades:

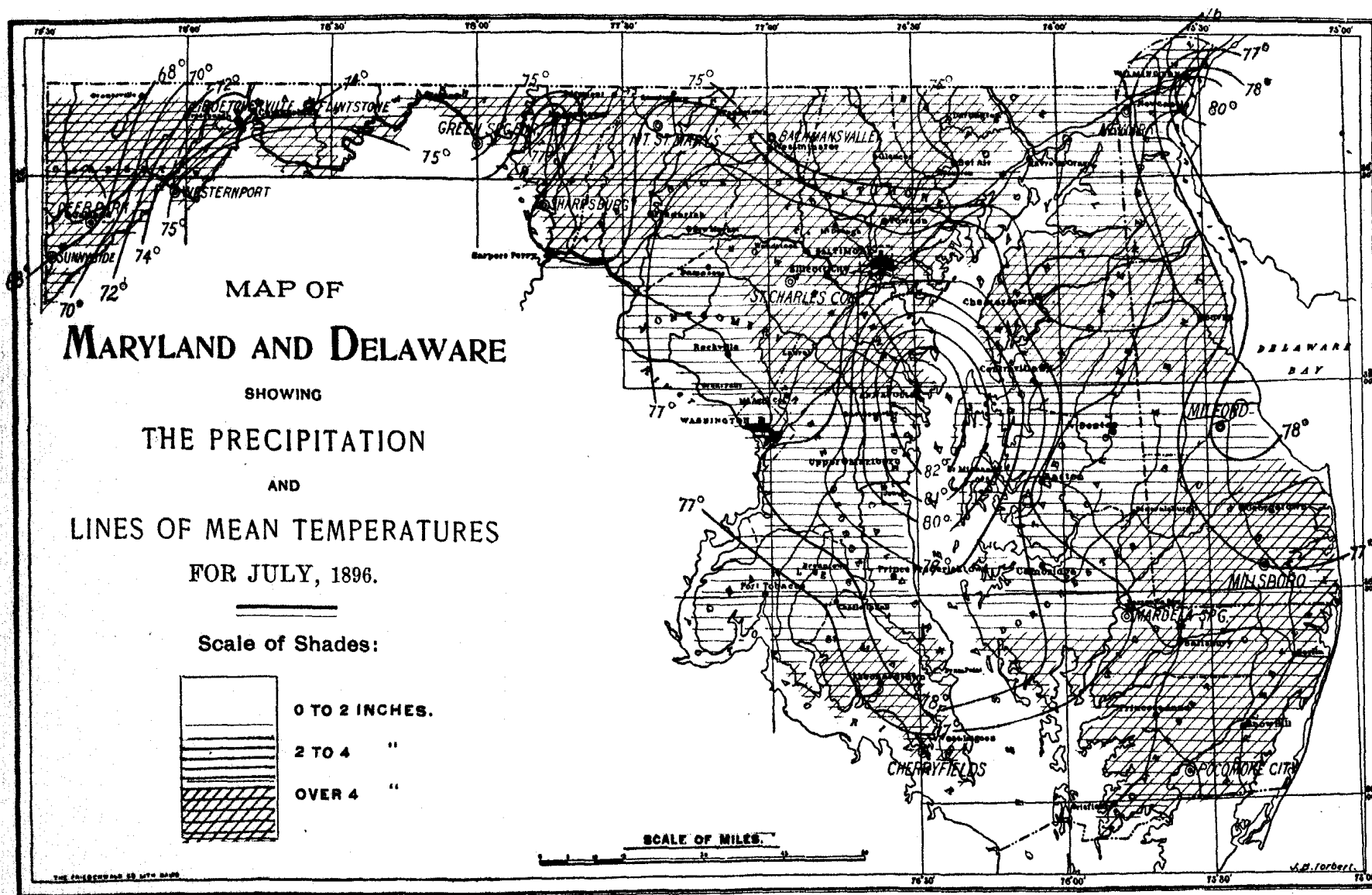
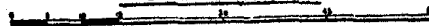


0 TO 2 INCHES.

2 TO 4 "

OVER 4 "

SCALE OF MILES.



J. M. Forbert.

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, Johns Hopkins Hospital		W. L. Woods.	
Baltimore, (The Anchorage)			Thos. Hansen.
Bel Air	Harford		N. N. Nock.
Boettcherville	Allegany	F. F. Brown.	
Bradshaw	Baltimore		B. F. Taylor.
Burkittsville	Frederick	J. P. Slifer.	
Cambridge	Dorchester	J. S. Shepherd.	Samuel Lehman.
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