

Recd Apr. 16, 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,
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Secretary and Treasurer.

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U. S. WEATHER BUREAU,
Meteorologist in Charge.

VOL. V, No. 12.

MONTHLY REPORT.

APRIL 10, 1896.

Contains Review for the Month of March.

Review of the Month—March.

WEATHER.

Temperature (degrees).—Monthly mean (entire territory), 36.6, being 4.0 below the normal; highest monthly mean, 43.7, at Pocomoke City; lowest monthly mean, 26.4, at Sunnyside; highest temperature, 74, at Wilmington, Del., on the 30th; lowest temperature, —13, at Deer Park, on the 14th; greatest local monthly range, 79, at Flintstone; least local monthly range, 42, at St. Charles College (near Ellicott City); monthly mean range, 59.2; monthly mean maximum, 46.0; monthly mean minimum, 27.2.

Precipitation (in inches).—Average, 4.38, being 0.80 above the normal; greatest amount, 6.80, at Sunnyside; least amount, 2.18, at Princess Anne. The greatest fall of snow during the month, in Maryland, 48.5, is reported by the observer at Sunnyside. The next greatest, 47.0, is reported by the observer at Oakland. The average fall for the entire territory is 12.4.

Wind.—Prevailing direction, northwest. Total movement, in miles, Philadelphia, Pa., 10,376; Baltimore, Md., 8038; Washington, D. C., 8158; Norfolk, Va., 9174.

Thunderstorms.—At Bachman's Valley, on the 19th; at Cambridge, on the 30th; at Cherryfields; on the 29th; at College Park, on the 19th; at Chestertown, on the 7th; at Dover, Del., on the 7th; at Easton, on the 7th; at Flintstone, on the 26th (2); at Grantsville, on the 26th; at Green Spring Furnace, on the 26th; at Hancock, on the 26th; at Mardela Springs, on the 29th, 30th; at Oakland, on the 26th; at Pocomoke City, on the 29th, 30th; at Solomon's, on the 29th; at Sunnyside, on the 26th, 29th; at Woodstock, on the 19th.

Hail.—At Bachman's Valley, on the 1st, 16th; at Burkittsville, on the 16th; at Cambridge, on the 23rd; at Chestertown, on the 23rd; at

Jewell, on the 11th, 16th, 23rd; at Mardela Springs, on the 24th; at Milford, Del., on the 10th, 23rd; at New Market, on the 16th; at Oakland, on the 19th; at Solomon's, on the 23rd.

Sleet.—At Burkittsville, on the 16th; at Chestertown, on the 11th; at Mardela Springs, on the 24th; at Millsboro, Del., on the 23rd; at Newark, Del., on the 10th; at New Market, on the 16th; at Oakland, on the 19th, 26th; at Princess Anne, on the 23rd; at Sharpsburg, on the 16th; at Wilmington, on the 11th.

Frost, killing.—At Mardela Springs, on the 8th, 15th, 28th; at Princess Anne, on the 18th, 25th, 28th; at Sharpsburg, on the 28th; at Wilmington, Del., on the 17th, 18th, 25th, 26th.

Fogs, dense.—At Cambridge, on the 16th; at Jewell, on the 16th, 30th; at Laurel, on the 30th; at Millsboro, Del., on the 16th, 26th; at Sunnyside, on the 1st, 24th; at Wilmington, Del., 16th, 18th, 23rd, 26th, 30th.

Auroras.—At Bachman's Valley, on the 4th; at Burkittsville, on the 4th; at Darlington, on the 4th; at Easton, on the 4th; at Mardela Springs, on the 4th; at Millsboro, Del., on the 3rd, 4th; at New Market, on the 4th; at Princess Anne, on the 4th, 7th; at Solomon's, on the 4th; at Westminster, on the 4th.

Halos, Solar.—At Baltimore, on the 6th, 18th; at Cumberland, on the 25th; at Green Spring Furnace, on the 28th, 31st; at Jewell, on the 24th, 31st.

Halo, Lunar.—At Green Spring Furnace, on the 28th.

Corona, Lunar.—At Millsboro, Del., on the 18th.

Polar Bands.—At Cumberland, on the 28th.

Parhelion, Solar.—At Mardela Springs, on the 14th.

Rainbow.—At Woodstock, on the 19th.

Notes by Observers.

Bachman's Valley.—23rd, wild geese flew over; 29th, frogs heard.

Grantsville.—The month of March was remarkable for a large amount of snow, 41.0 inches, which was beneficial to winter grasses and meadows.

Green Spring Furnace.—29th warm, spring-like day, frogs heard croaking; 30th, very warm.

Mardela Springs.—31st, lilac leaves half out, maple-trees in blossom, house martins here a week ago.

DAILY PRECIPITATION FOR MARCH, 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	Total.	
Sunnyside.	.33		.06			.11	.22	T	T	.34	.53	.43	.09		.64	.88	.34		.37	.30		.02	.57			.35	.08		.45	.62	.07	6.80	
Oakland.	T		T		.05	.10	.30	.05		.28	.77	T	T		.50	1.48	T	†	.32	.30		.36			.35			.05	.73		5.64		
Deer Park.							.52			.40	.80	.10			.40					.90		.50		.25				.32	.44		4.63		
Grantsville		.10					.10	.22		.40	1.20				.40	.60			.30	.50		.40		.20		.40	.30				5.12		
West'nport.	T					.20	T		.30	.12	.60			.10	.70	.30		.15				.30		.15		.30	.10				3.32		
Boettcherv.						T				.30	.80				1.40				.50			.40						†	.50		T	3.90	
Cumber'ld.										†	.90				†	1.20			.44			†	.35		.11		.50	.05				3.59	
Flintstone.						T				.26	.80	.22			.35	.50		†	.58				.35		.37		†	.40				3.83	
Hancock.										†	1.30				†	.20			2.01				.10		.39				.50			4.50	
Gr'nSp.Fur.						T		†	.40						†	.65			.70				.11		.09			.07	.04			2.36	
Hagersto'n.										.80					.80	.60			2.00							.40	.40	.30	.10			5.40	
Sharpsburg							T		T	†	1.11				.14	.88			.79			T	.26		.08		.41	.17				3.82	
Burk'sville.									.08	†	.78				†	.40			.93			.04	.32		.20		.28	T	.12			3.20	
Mt.St.M'y's Coll.		T							T	.60	.30				.45	.35			2.00			.50	.70				.85					5.75	
Fred'k.						.03	T		†	†	.88				†	.75			1.00			.68	.23		.14				.92	.03		4.04	
New Mark't									†	1.20					1.80	.32		†	1.32			T	.22		.05				.80	.20		5.91	
Bach. V'y.	T						T	T	T	.55	.10				.45	.60			2.80			T	.30		.38		.90	.10	T			6.18	
W. Md. Coll.							.70			T	T				.40	.35			1.95				.36		.05		.79					4.60	
Woodst. Coll.										†	.80				†	.20			1.43				†	.25	.12		†	1.02				6.12	
Baltimore.	T						.01		.02	.64	.03				5.1	1.08	.01		1.05	T		.06	.11	.02	.11		.89	.16				4.70	
St. Chas. Coll.										.07	.80				†	1.20			1.02			T	.14		.13		.14					3.33	
Great Falls	.08									.70					†	.77			.84	1.00			.18									3.20	
Falls'n Sch.		T					.06			.70					.58				1.00	.03		.05	.18		.16		1.23					5.07	
Van Bibber										.68					1.15	.58			.60			.50	.50		.16		1.40					24.15	
Dari'g'n Aca'y						.03				.65					†	1.58			1.17			.25					.96	.19				4.86	
Annapolis.									.04	.57					.54	1.12	.09		1.11			.04	.19		T		.64	.19				4.53	
Jewell.									.10	.78					†	1.80			.75			T	.18		T		.70	.30				4.31	
Dist. R. D.C	.01									.10	.73				†	.85	.45		.42	.17												2.73	
Rec. R. D.C	.03									.08	.57				†	.85	.36		.35	.40		.20										3.14	
Wash., D.C	T					T			T	1.05	T				.53	1.09	T		1.33	.01		.01	.09	.02		.02		.93	.08	T		5.16	
Md. Agr. Coll.										.97					†	1.63			.65			T	.10		.01		.93	.08				4.61	
Up. Marl'b.						T				.75					1.60	1.17			.86			T	.02		.09		.93	.08				5.29	
Laurel.										T	.20				.50	.65			.23			T	.20		T		.43	.13				2.60	
Solomon's.						T				T	.62	.01			.75	.30			1.00			T	.20		T		.70	.70				2.63	
Chan. Hall Sch.										.01	.65				.74	.30			.30								.50	.30				2.80	
Cherryfields.					.05						.90				1.10	.40			.82						.20		1.01	.30	.10			4.91	
Chestert'n.										.83	†				1.28	.55			1.55						.20		1.16	.42				5.99	
Denton.										.74					†	1.63			.43				.22	.15	.03		.94	.16				4.34	
Easton.	.02						.02			†	.82				†	1.30			.73			T	.15		T		.72	.20				3.92	
Cambridge.										.59	T				.78	.85			.31				.07	.05			.31	.13				3.09	
Mardela Sp.		T								.38	T				.28	.35			.47				.01	.16	.02		.26	.25				2.18	
Pri'cess An.										.21	.04				.20	.30			.32				†	.24		†	.24	.48					2.29
Poc'm'k Cit	.01									.97					.46	.97			2.02			.03	.33		.11		.73	.21				5.90	
Wilm't. Del.	T						.03	T		.04	.97																						
Delaware Coll., Newark, Del.										†	.55				†	1.34			1.31				.65		.13		.75	.22				4.45	
Dover, Del.						.09			†	†	.89				†	1.79			1.06				.31				†	1.36				5.50	
Milford, Del.	.05									.96	T				†	1.67			.56			†	.43		.03	.99	†	.45				5.14	
Seaford, Del.										.65	T				†	1.27			.79			T	†	.30	T		.76	.22				4.01	
Millsb'o. Del.										.70					.30	.54	.12		.66				.10	.30	T		.42	.33				3.47	
Phila. Pa.	.02						.08	T		T	.40	.03			.24	1.04	.09		.89	T		.01	.28	.05	.06		.80	.12				4.11	
Warsaw, Va.											.70				.78				.66					.15				.95	T			3.24	
Birdsneest Va.	.15										.40				.20	†	.30		.15					.20			.75	.75	†			2.90	
Norfolk, Va.	T									.46			T			.16	.19		.13								.09	.27	.19			1.67	

NOTE.—"T" indicates a trace of rain or melted snow. † Not measured until next observation.

MONTHLY SUMMARY OF REPORTS FOR MARCH, 1896.

STATIONS.	COUNTIES.	Altitude above sea in ft.	Latitude.	Longitude.	TEMPERATURE.										Monthly Range.	Total Precipitation.	Total Snow-fall.	Clear Days.	Fair Days.	Cloudy Days.	Rainy Days. (0.1 in. or more)	Prevailing Winds.
					Monthly Mean.	Mean of Max.	Mean of Min.	Max.		Min.												
								Degrees.	Date.	Degrees.	Date.											
WESTERN MARYLAND.																						
Sunnyside	Garrett	2440	39°20'	79°21'	26.4	34.8	17.9	64	29	-2	24	66	6.80	48.5	11	4	16	19	S. W.			
Oakland	Garrett	2380	39 24	79 25	c29.8	b39.1	c20.5	61	29	-10	14	71	5.64	47.0	6	12	13	14	S. W.			
Deer Park	Garrett	2457	39 25	79 20	28.6	40.1	17.2	60	29	-13	14	73	4.63	40.0	9	5	17	13	.....		
Grantsville	Garrett	2100	39 45	79 10	29.4	39.4	19.4	62	29	-1	14, 24	63	5.12	41.0	9	5	17	13	.....		
Westernport	Allegany	1000	39 45	79 10	28.6	38.5	18.6	53	6	-3	13	56	3.32	25.7	.....	.....	.....	.....	.....
Bootherville	Allegany	900	39 39	78 48	33.4	.....	.....	68	30	-6	13	74	3.90	29.0	.....	.....	.....	.....	.....
Cumberland	Allegany	650	39 39	78 46	30.8	48.7	31.0	68	31	6	13	62	3.59	27.5	.....	.....	.....	.....	.....
Flintstone	Allegany	.....	.....	.....	33.8	45.8	21.7	67	31	-12	13	79	3.83	24.8	.....	.....	.....	.....	.....
Hancock	Washington	500	39 40	78 10	37.1	49.2	25.0	71	30	-2	13	73	4.50	16.0	15	10	6	8	E. W.			
Green Spr. Furnace	Washington	500	39 38	77 58	34.8	44.7	24.9	70	30	-1	14	71	2.86	20.0	15	10	6	8	W.			
Hagerstown	Washington	550	39 39	77 43	35.2	46.5	24.0	69	31	-1	13	68	5.40	22.0	15	6	10	8	.....		
Sharpsburg	Washington	420	39 25	77 44	35.0	43.9	26.0	66	30	-2	13	68	3.82	17.5	16	7	8	10	N. W.			
NORTHERN-CENTRAL MD.																						
Burkittsville	Frederick	.....	39 25	77 35	37.1	45.7	28.5	68	30, 31	9	13	59	3.20	15.0	10	13	8	9	W.		
Mt. St. Mary's Coll.	Frederick	720	39 40	77 20	35.0	43.6	26.3	66	30	8	24	58	5.75	24.0	18	0	13	9	.....		
Frederick	Frederick	250	39 25	77 25	36.0	44.5	27.5	67	30	0	13	67	4.04	16.3	14	12	5	9	.....		
Woman's Coll. Fred.	Frederick	.....	39 25	77 25	36.4	45.2	27.5	68	30	6	13	62	.....	.....	15	12	4	.....	N. W.
New Market	Frederick	550	39 23	77 16	35.8	44.1	27.7	67	30	5	13	62	5.91	12.0	18	7	6	8	N. W.			
Bachman's Val.	Carroll	.....	39 37	76 55	33.4	43.3	23.6	63	30	-3	13, 14	69	6.18	18.0	16	8	7	9	N. W.		
Western Md. Coll. Westminister	Carroll	.....	39 25	77 0	37.8	48.8	26.8	71	31	12	13	59	4.60	14.5	22	5	4	7	.....		
McDonogh Sch'l.	Baltimore	545	39 23	76 46	36.0	44.6	27.5	64	31	5	13	59	.....	.....	.....	.....	.....	.....	.....
Woodstock Coll.	Baltimore	400	39 20	76 52	b36.1	47.2	b25.0	67	30	-4	13	71	6.12	10.0	17	9	5	9	N. W.			
Baltimore	.....	141	39 17	76 33	37.8	45.9	29.8	69	30	16	13	53	4.70	13.8	12	7	12	14	N. W.		
Johns Hopkins Hos	.....	124	39 17	76 33	36.8	45.4	28.1	70	30	14	13	56	.....	.....	.....	.....	.....	.....	.....
St. Charles Coll. or Ellicott City	Howard	300	39 16	76 44	38.4	45.0	31.8	60	26, 29, 31	18	13	42	3.33	.....	21	0	10	7	N. W.		
Great Falls	Montgomery	150	39 0	77 15	37.4	.....	.....	63	28	12	13	51	3.20	.....	.....	.....	.....	.....	.....
Fallston School	Harford	450	39 30	76 24	35.2	.....	.....	64	30	10	13	54	5.07	11.0	12	12	7	11	W.	
Van Bibber	Harford	.....	.....	.....	35.0	43.9	26.0	68	30	9	12, 13	59	5.15	.....	20	1	10	7	.....		
Darlington Acad'y.	Harford	800	39 38	76 12	35.2	44.6	25.7	65	30	8	13	57	4.86	8.5	17	6	8	8	N. W.			
SOUTHERN MARYLAND.																						
Annapolis	Anne Arund'l	20	38 58	76 30	38.5	44.9	32.1	67	30	20	12	47	4.53	.....	17	3	11	10	.....		
Jewell	Anne Arund'l	165	38 45	76 37	38.7	48.1	29.3	69	30	11	14	58	4.31	1.0	19	5	7	7	N. W.			
Dist. Res., D. C. *†	.....	120	38 55	77 6	39.0	.....	.....	66	30	17	13	49	2.73	.....	.....	.....	.....	.....	.....
Rec. Res., D. C. *†	.....	160	38 57	77 7	38.0	.....	.....	65	30	12	13	53	3.14	.....	.....	.....	.....	.....	.....
Washington, D. C.	.....	112	38 54	77 3	38.5	47.0	29.4	70	30	14	13	56	5.16	.....	16	5	10	11	S. W.	
Md. Agric't. Coll. College Park	Pr. George's	170	38 58	76 56	e37.0	d47.1	e26.8	69	30	10	14	59	4.61	4.0	.....	.....	.....	.....	.....
Upper Marlboro	Pr. George's	60	38 47	76 45	38.0	47.3	28.8	70	30	15	14	55	5.29	1.1	18	6	7	9	N. W.			
Laurel	Pr. George's	.....	.....	.....	38.5	48.3	28.8	72	30	7	13	65	2.60	2.0	12	11	8	7	N. W.
Solomon's	Calvert	20	38 19	76 27	40.1	48.2	32.0	71	30	20	14	51	2.63	1.0	12	4	15	8	N. W.			
Charlotte Hall	St. Mary's	167	38 48	76 48	39.2	49.8	28.7	70	30	13	14	57	3.82	2.0	18	8	5	6	N. W.			
Cherryfields	St. Mary's	20	38 11	76 24	39.0	.....	.....	.....	.....	.....	.....	.....	2.80	0.5	10	13	8	7	N. W.
EASTERN MD. AND DELAWARE.																						
Chestertown	Kent	80	39 13	76 4	37.4	45.4	29.3	67	30	16	14	51	4.91	2.0	16	10	5	9	N. W.			
Denton	Caroline	42	38 53	75 30	38.0	45.6	30.3	68	30	15	14	53	5.99	2.0	.....	.....	.....	.....	.....
Easton	Talbot	35	38 46	76 5	39.0	47.1	30.9	69	30	18	14	51	4.34	1.5	17	5	9	12	N. W.			
Cambridge	Dorchester	.....	38 44	76 7	41.1	50.1	32.8	67	30	21	14	56	3.92	1.5	15	13	3	7	N. W.		
Mardela Springs	Wicomico	25	38 28	75 45	39.0	48.3	29.7	69	30	16	14	53	3.09	1.5	11	8	12	11	N. W.			
Princess Anne	Somerset	20	38 12	75 41	39.7	50.9	28.9	71	30	16	14	55	2.18	1.0	7	14	10	9	N. W.			
Pocomoke City	Worcester	37	38 5	75 34	43.7	54.1	33.3	72	30	20	14	52	2.29	1.1	12	13	6	11	N. W.			
Wilmington, Del.	Newcastle	115	39 44	75 33	37.8	47.0	28.7	74	30	16	24	58	5.90	6.5	10	14	7	11	N. W.			
Delaware College, Newark, Del.	Newcastle	.....	39 40	75 37	35.2	44.0	26.3	66	30	12	13, 14	54	4.45	4.5	12	5	14	9	N. W.		
Dover, Del.	Kent	40	39 10	75 30	38.0	45.6	30.4	65	26	18	14	47	5.50	3.1	16	7	8	10	N. W.			
Milford, Del.	Kent	.....	38 55	75 25	39.8	49.8	29.9	69	30	17	14, 15, 25	52	5.14	2.0	16	5	10	10	N. W.		
Seaford, Del.	Sussex	.....	38 40	75 35	38.9	48.8	29.0	70	30	16	14	54	4.01	2.5	.....	.....	.....	.....	.....
Millsboro, Del.	Sussex	.....	38 44	75 15	39.6	50.0	29.2	69	30	16	14	53	3.47	4.0	18	5	8	9	N.		
PENNSYLVANIA. ‡																						
Philadelphia	.....	.....	.....	.....	35.8	43.9	27.8	63	26	15	24	46	4.11	9.0	14	5	12	14	N. W.
VIRGINIA. †																						
Warsaw	.....	.....	.....	.....	d42.4	d53.4	d31.4	75	30	18	14	57	3.24	1.5	12	12	4	6	N.
Birdsnest	.....	.....	.....	.....	43.4	.....	.....	72	30	24	14	48	2.90	.....	11	8	12	9	N. W.
Norfolk	.....	.....	.....	.....	46.1	55.2	37.0	76	30	28	14	48	1.67	.....	14	8	9	8	N. W.
AVERAGES																						
Western Maryland	.....	.....	.....	.....	32.7	42.8	23.4	.....	.....	.....	.....	68.7	4.41	29.9	11.5	8.6	11.1	11.2	S. W.
Northern-Cent'l Md.	.....	.....	.....	.....	36.1	45.1	27.3	.....	.....	.....	.....	59.1	4.91	15.4	16.3	7.1	7.6	9.0	N. W.
Southern Maryland	.....	.....	.....	.....	38.6	47.7	29.5	.....	.....	.....	.....	56.0	3.97	1.7	15.2	6.9	8.9	8.2	N. W.
East. Md. and Del.	.....	.....	.....	.....	39.0	48.2	29.8	.....	.....	.....	.....	53.0	4.24	2.6	13.6	9.0	8.5	9.8	N. W.
Entire territory	.....	.....	.....	.....	36.6	46.0	27.2	.....	.....	.....	.....	59.2	4.38	12.4	14.2	7.9	9.0	9.6	N. W.

* Extremes of temperature from observed readings of dry thermometer. A numeral following the name of a station indicates the hour 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 and therefore omitted in computing averages and in preparing map. § Temperature record for first 16 days.

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

Scale of Shades:

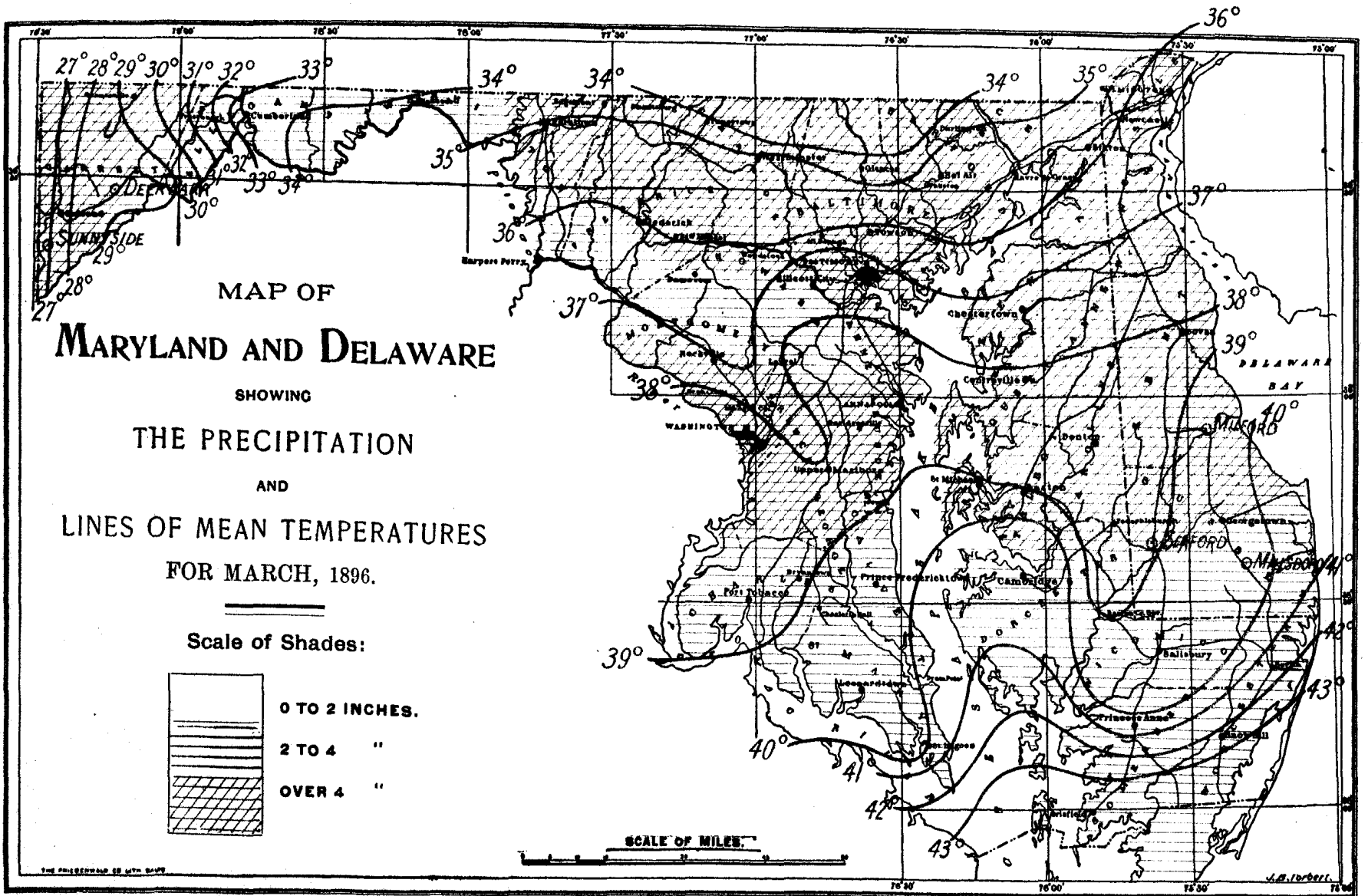


0 TO 2 INCHES.

2 TO 4 "

OVER 4 "

SCALE OF MILES.



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

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Appleton	Cecil		W. C. Henderson.
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		A. T. Brewer.	
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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.	
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Deer Park	Garrett	S. P. Specht.	
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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.	
Easton	Talbot	Henry Shreve.	Henry Shreve.
Fallston School	Harford	G. G. Curtiss, A. M.	
Flintstone	Allegany	N. T. Downs.	N. T. Downs.
Frederick	Frederick	McClintock Young.	"The News."
Frostburg	Allegany		J. N. Benson.
Garey P. O.	Howard		Walter Dorsey.
Glyndon	Baltimore		J. J. Dyer.
Grantsville	Garrett	J. S. Miller	T. H. Bittinger.
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Jewell	Anne Arundel	Jos. Plummer.	
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Kenton, Del.	Kent		W. S. Arthurs.
Kirkwood, Del.	New Castle	J. S. Carnagy.	
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			L. W. Gunby.
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