

Climate and Crop Division.

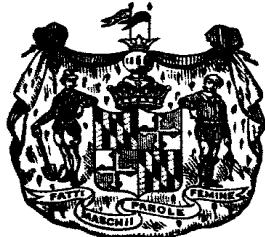
Recd Mar. 19, 1896.

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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U. S. WEATHER BUREAU,
Meteorologist in Charge.

VOL. V, No. 11.

MONTHLY REPORT.

MARCH 9, 1896.

Contains Review for the Month of February.

How to Preserve Woodland.

In the M. A. C. Record, published by the Michigan Agricultural College, there appears the following, in an article by Prof. A. A. Crozier:

The two principal enemies of forest property are live stock and fire. Where stock is confined to a limited section of woodland, all underbrush is soon destroyed and the woods become open and park like, the surface more or less covered with grass, attractive places for picnic parties, etc., but of little further use as a forest. The duration of such a forest is necessarily limited to the life of the large timber, and even this often prematurely dies from the unwonted exposure.

The College woodland has therefore been securely fenced against stock, and all the young growth preserved to take the place of the larger trees which are from time to time removed for lumber and fuel. This woodland lies mainly in two parcels. This division into two parcels serves as a measure of safety against fire, but direct means for further protection have also been taken. The south wood lot which extends for some distance along the D. L. & N. railroad, has been protected from fires from the engines by a strip of cultivated land cleared for that purpose;

The north wood lot has a similar "fire belt" cleared of all surface vegetation extending through its centre. In this wood lot is also maintained a system of roads or drives which are intended as a further protection against the spread of fire.

A botanical survey of the more prominent features of these wood lots has been made. For this purpose each parcel was laid off in wards of uniform size, securely marked at the corners with iron pipe. These wards have been num-

bered and platted, and the kind and relative amounts of the timber thereon recorded. Measurements of some of the trees have been taken to learn in the future their rate of growth. In one of the wards all of the large timber was cut off from several acres a few years ago, and a thrifty second growth is now taking its place. The College woods are therefore no longer wild land, but a source of profit and a means of study.

Miscellaneous Notes.

Crop correspondents are requested to report on March 28th (using the card, form 1053) to what extent the season's farming operations have been carried on up to that time, including the effects of the weather conditions during the winter and spring. The information is desired by the Chief of the Weather Bureau for use in preparing the National Climate and Crop Bulletin for March, 1896.

The first issue of the Climate and Crop Bulletin of the Maryland State Weather Service (co-operating with the U. S. Department of Agriculture, Weather Bureau), for the season of 1896, will be made on Tuesday, April 7th, proximo; and it is desired that the card reports be mailed so that they will reach Baltimore on Monday, the day preceding the publication of the Bulletin.

Observers will confer a great favor upon the Central Office by promptly forwarding meteorological forms. Some reports for February were not received until March 9th.

Review of the Month—Feb.

WEATHER.

General.—Six quite well defined areas of high pressure, as they moved eastward over the Atlantic Coast States, influenced Maryland's February weather, while nearly twice that number of low areas exerted their opposite influence. The natural result followed in that the precipitation greatly exceeded the normal for the month. Not only that, but it established a record at several stations, as the February of greatest rainfall known. At Baltimore the total of 7.07 inches is considerably above all previous records for the month, though even a greater amount was recorded at Annapolis, Cambridge, and Millsboro, Del. More than four inches fell at all stations from Hagerstown and Sharpsburg east to the Atlantic, as shown by the map, page 85, and the greater portion of Garrett county received an amount exceeding this limit.

The table of daily precipitation, page 83, shows rain or snow to have fallen in some portion of the State on every one of the first ten days. The last part of the month was comparatively dry.

The temperature was not, on the whole, essentially different from the normal. A number of the storms followed southerly tracks, with a resulting lower temperature for the Middle Atlantic States than would have resulted had the more usual northern routes been taken.

The isotherms, as shown on the map, page 85, are quite irregular, though they show a noticeably higher temperature for the valleys than for the more elevated regions.

Temperature (degrees).—Monthly mean (entire territory), 34.6, being 1.3 above the normal; highest monthly mean, 40.2, at Pocomoke City; lowest monthly mean, 26.6, at Sunnyside; highest temperature, 66, at Pocomoke City, on the 29th, Milford, Del., on the 6th, and Millsboro, Del., on the 28th; lowest temperature, —12, at Sunnyside, on the 17th; greatest local monthly range, 69, at Sunnyside; least local monthly range, 46, at St. Charles College (near Ellicott City), Great Falls, Distributing Reservoir, D. C., Receiving Reservoir, D. C., and Solomon's; monthly mean range, 55.9; monthly mean maximum temperature, 43.1; monthly mean minimum temperature, 26.4.

Precipitation (in inches).—Average, 5.41, being 2.30 above the normal; greatest amount, 7.48, at Annapolis; least amount, 2.40, at West-

ernport. The greatest fall of snow during the month, in Maryland, 17.3, is reported by the observer at Sunnyside. The next greatest, 14.5, is reported by the observer at Grantsville.

Wind.—Prevailing direction, northwest. Total movement in miles, Philadelphia, Pa., 9639; Baltimore, Md., 7297; Washington, D. C., 6912; Norfolk, Va., 8440.

Thunderstorms.—At Cambridge, on the 28th; at Charlotte Hall, on the 28th; at Cherryfields, on the 28th; at Chestertown, on the 28th; at College Park, on the 6th; at Fallston, on the 6th, 28th; at Jewell, on the 6th, 28th; at Mardela Springs, on the 28th; at Millsboro, Del., on the 28th; at Newark, Del., on the 28th; at Sharpsburg, on the 28th; at Solomon's, on the 28th; at Upper Marlboro, on the 28th; at Wilmington, Del., on the 6th, 28th.

Hail.—At Bachman's Valley, on the 3rd; at Chestertown, on the 3rd, 8th; at Dover, Del., on the 28th; at Grantsville, on the 3rd; at New Market, on the 3rd, 13th; at Oakland, on the 2nd; at Wilmington, Del., on the 3rd, 4th, 8th.

Sleet.—At Bachman's Valley, on the 3rd; at Burkittsville, on the 8th; at Chestertown, on the 3rd, 8th; at College Park, on the 3rd; at Dover, Del., on the 3rd, 4th; at Fallston, on the 3rd; at Grantsville, on the 3rd; at Green Spring Furnace, on the 13th; at Newark, Del., on the 8th; at New Market, on the 13th; at Oakland, on the 5th; at Sharpsburg, on the 3rd, 9th; at Sunnyside, on the 5th; at Wilmington, Del., on the 3rd, 4th, 8th, 9th, 13th; at Woodstock, on the 3rd.

Fogs, dense.—At Cambridge, on the 29th; at Cherryfields, on the 29th; at Jewell, on the 5th, 29th; at Mardela Springs, on the 4th, 9th, 27th, 29th; at Millsboro, Del., on the 4th, 5th; at Pocomoke City, on the 29th; at Solomon's, on the 29th; at Westminster, on the 4th, 5th; at Wilmington, Del., on the 1st, 4th, 5th, 6th, 10th, 13th, 17th, 24th, 27th, 28th, 29th.

Halos, Lunar.—At Cumberland, on the 1st, 20th, 21st, 22nd, 26th; at Green Spring Furnace, on the 22nd; at Jewell, on the 22nd; at Millsboro, Del., on the 22nd; at Pocomoke City, on the 22nd; at Solomon's, on the 19th, 22nd, 24th.

Halos, Solar.—At Jewell, on the 12th, 17th.

Coronas, Lunar.—At Millsboro, Del., on the 24th; at Wilmington, Del., on the 8th.

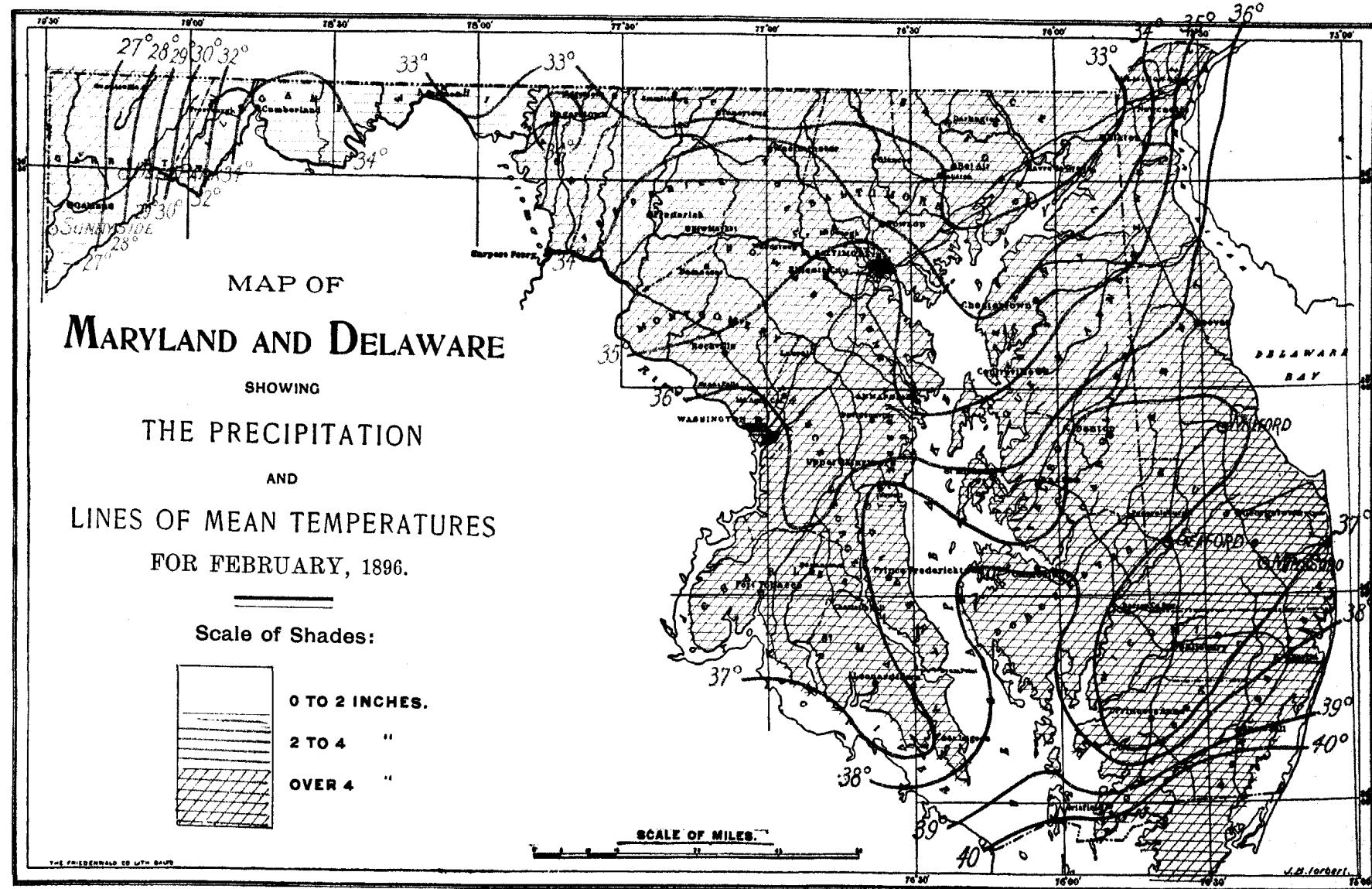
Auroras.—At Sunnyside, on the 15th; at Mardela Springs, on the 12th.

DAILY PRECIPITATION FOR FEBRUARY, 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 .	1.19	....	.54	.18	.16	.50	.05	T	.36	....	....	.91	.38	.09	.01	.26	....	.18	....	.28	.02	....	....	.34	....	....	....	....	....	5.45
Oakland....	.97	.05	.35	.10	.15	.46	.10	.02	.36	....	....	.85	.13	.07	....	.22	....	....	.09	....	.20	.20	....	.05	....	.02	.35	....	....	4.29
Deer Park.	.90	....	.10	....	.20	.12	....	.20	.30	....	....	.90	....	....	....	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	4.20
Grantsville	.85	....	.30	....	....	.78	.05	....	.40	.50	....	.53	.23	.06	....	.15	....	....	....	....	.15	.17	....	....	....	....	....	....	....	3.57
West'nport.	.10	.35	.10	.05	.60	.10	.10	....	....	....	.15	.26	T	....	.02	....	.20	....	....	....	.08	....	T	....	.50	....	....	....	....	4.77
Boettcher's.	T	.50	....	.20	....	1.00	....	T	.30	....	....	.40	....	....	....	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	2.40
Cumber'ld.	.25	....	.25	.14	....	.88	....	....	.40	....	....	.43	....	....	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	3.10
Flintstone.	.25	....	.34	.07	....	.91	....	.28	....	....	....	.42	....	....	....	.19	....	....	....	....	....	....	....	....	....	....	....	....	....	3.01
Gr'nSp. Fur.	.23	....	....	.64	....	.95	....	T	....	....	....	.36	....	T	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	3.13
Hagersto'n.	.40	....	.48	.30	....	1.40	....	.30	....	....	....	.40	....	....	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	3.80
Sharpsburg	.25	....	.60	.10	....	1.57	....	T	.40	....	....	.32	....	....	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	1.30
Burk'sville.	.29	....	.74	.38	.12	....	....	....	....	....	....	.57	....	....	....	.30	....	....	....	....	....	....	....	....	....	....	....	....	....	4.58
Mt.S.M'y's Col.	....	T	....	....	....	2.96	....	T	....	....	....	.70	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4.57
Fred'k'.	.27	....	.61	.12	.10	.25	....	....	.52	....	....	.51	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	4.22
New Mark't	T	T	....	.64	.20	.24	....	.10	.37	....	....	.64	....	T	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	5.16
Bach. V'y.	.24	....	.18	.12	T	.34	....	.25	....	....	....	.38	....	.03	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	5.19
West Md. Col.	.17	....	....	.47	....	.30	....	....	.46	....	....	.54	....	....	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	1.34
Woodst. Col.	.27	.01	.73	.12	....	2.35	....	....	.47	....	....	.80	....	....	....	.05	T	....	....	....	....	....	....	....	....	....	....	....	....	1.48
Baltimore.	.22	....	.78	.13	....	.38	.48	....	.02	.42	....	.82	.02	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.15
St.Chas. Col.	.27	....	....	.81	....	.24	....	.40	....	....	....	.81	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	7.07
Great Falls	....	....	.62	.12	.06	1.30	.96	....	.32	....	....	.35	.82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.51	
Falls'n Sch.	.27	....	.90	....	....	2.96	....	.50	....	....	....	.72	....	.02	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	5.50
Van Bibber	.26	.27	....	....	....	1.44	.88	....	....	....	....	1.64	....	.60	....	....	T	....	....	....	....	....	....	....	....	....	....	....	....	1.00
Dar'g'n Aca'y	.21	....	.88	....	....	2.15	....	.48	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	6.35
Annapolis.	.19	....	.88	.10	....	2.87	....	.06	.63	....	....	.72	.82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.49
Jewell.	.2580	T	T	.2525	1.16	T	5.12	
Dist. R.D.C.	....	.07	.50	.18	.05	1.30	.82	....	.37	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.48
Rec. R.D.C.	....	.08	.53	.21	.11	1.30	.90	....	.29	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.60
Wash., D.C.	.22	.01	.68	.05	....	.01	.29	....	.05	.34	....	.98	T	.02	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	5.02
Md. Agr.'l Col.	.21	T	.70	.01	....	1.12	.48	....	T	.29	....	.98	....	.03	T	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.21
Up. Marl.	.20	.03	.86	.03	....	2.45	....	....	.32	....	....	1.28	....	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	....	6.31
La Plata.	6.30	
Solomon's.	.25	.10	.71	....	....	1.5	3.60	....	.08	.28	....	....	....	....	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	6.44
Charl. Hail Sch.	....	.65	....	1.30	1.98	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4.87
Cherryfields.	.28	....	.60	.16	....	2.00	....	.13	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4.52
Chestert'n.	.25	....	.70	.08	2.08	.80	....	.38	T	....	....	1.23	....	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	....	6.12
Denton.	....	.91	....	....	.50	2.24	....	.26	....	....	....	1.20	....	T	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	6.06
Easton.	.25	....	.87	....	....	3.06	....	....	.28	....	....	1.00	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.96
Cambridge.	.30	....	.93	....	....	4.00	....	.54	....	....	....	.72	....	....	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	5.36
Mardela Sp.	.36	....	.89	....	....	3.00	....	.30	....	....	....	.75	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	6.23
Pri'cess An.	.46	.06	.95	.01	....	3.80	....	.08	.10	....	....	.41	.22	....	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	6.90
Poc'm'k Cit.	.46	....	1.04	.02	....	3.20	....	.10	.11	....	....	.24	.34	....	....	.02	T	....	....	....	....	....	....	....	....	....	....	....	....	6.52
Wilm't.Del.	.10	....	.35	.32	....	2.67	....	.11	.26	T	....	.78	....	....	.01	.03	....	....	....	....	....	....	....	....	....	....	....	....	6.00	
Delaware Co.	.22	....	....	.40	....	2.65	....	.25	....	....	....	.79	....	....	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	4.81
Newark, Del.	.18	....	....	....	....	3.25	....	....	.37	....	....	....	1.47	....	....	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	6.18
Milford, Del.	.28	....	....	....	1.35	....	4.10	....	.35	....	....	....	....	....	....	T	....	.03	....	....	....	....	....	....	....	....	....	....	....	6.71
Seaford, Del.	.37	....	....	1.09	....	3.70	....	....	.34	....	....	.96	....	....	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	7.02
Millsb'o.Del.	.31	....	1.21	.02	....	3.25	....	.09	.36	....	....	.20	....	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	7.18
Warsaw, Va	....	1.12	....	....	....	2.03	....	.34	....	....	....	.38	....	T	.35	T	.02	.02	....	....	....	....	....	....	....	....	....	....	....	4.54
Birds Nest Va	.50	....	.90	....	....	3.20	....	.50	....	....	....	T	.35	....	T	.02	.02	....	....	....	....	....	....	....	....	....	....	....	....	6.99
Norfolk, Va	.07	T	.84	T	.31	1.44	....	.51	.07	T	T	.65	.04	....	.01	.01	.07	....	....	T	T	.01	T	.19	.66	....	....	....	4.39	
Phila. Pa...	.27	....	.33	.08	T	3.86	....	....	.30	T	T	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	6.87

MONTHLY SUMMARY OF REPORTS FOR FEBRUARY, 1896.

STATIONS.	COUNTIES.	Altitude above sea in ft.	Latitude.	Longitude.	TEMPERATURE.								Total Precipitation.	Total Snow-fall.	Clear Days.	Fair Days.	Cloudy Days.	Rainy Days.	(.01 in. or more)	Prevailing Winds.					
					Monthly Mean.		Mean of Max.	Mean of Min.	Degrees.	Max.		Min.													
					Date.	Degrees.				Date.	Degrees.	Date.	Degrees.												
WESTERN MARYLAND.																									
Sunnyside.....	Garrett.....	2440	39° 20'	79° 21'	26.5	35.2	17.8	57	27, 28	-12	17	69	5.45	17.3	11	5	13	16	S. W.						
Oakland.....	Garrett.....	2380	39° 24'	79° 25'	27.4	37.6	17.1	60	21	-17	17, 20	67	4.29	13.0	5	9	15	16	N. W.						
Deer Park.....	Garrett.....	2457	39° 25'	79° 20'	27.2	37.6	16.9	57	1, 27	-10	17	67	3.57	14.5	5	4	20	12	N. W.						
Grantsville.....	Garrett.....	2100	39° 45'	79° 10'	27.4	35.2	19.6	58	27	-7	20	65	4.77	14.5	5	4	20	12	N. W.						
Westernport.....	Allegany.....	1000	39° 45'	79° 10'	30.6	40.8	20.5	57	28	-2	19	59	2.40	2.0	5	4	20	12	N. W.						
Boettcherville ¹ *	Allegany.....	900	39° 39'	78° 48'	34.2	40.9	26.3	62	15	0	20	62	3.10	9.0	5	4	20	12	N. W.						
Cumberland.....	Allegany.....	650	39° 39'	78° 46'	35.8	45.4	26.3	65	27	1	20, 21	66	3.01	1.5	5	4	20	12	N. W.						
Flintstone.....	Allegany.....	650	39° 39'	78° 46'	34.2	44.3	24.1	57	2	18	59	3.16	4.7	9	11	9	8	8	W.						
Green Sp. Furnace.	Washington.....	500	39° 38'	77° 58'	33.1	40.9	25.4	59	23	3	18, 19	56	3.30	2.0	13	8	8	6	W.						
Hagerstown.....	Washington.....	550	39° 39'	77° 43'	34.8	43.0	26.7	59	16	4	20	55	4.58	0.5	13	7	9	7	N. W.						
Sharpsburg.....	Washington.....	420	39° 25'	77° 44'	33.0	39.2	26.8	58	15	5	17, 20	53	4.57	0.5	17	3	9	8	N. W.						
NORTHERN-CENTRAL MD.																									
Burkittsville.....	Frederick.....	39	25	77° 35'	33.2	42.4	24.1	59	15	4	20	55	4.25	5.0	5	4	20	12	N. W.						
Mt. St. Mary's Col.	Frederick.....	720	39° 40'	77° 20'	32.4	39.2	25.7	56	23	6	18, 20	50	5.16	T	5	4	20	12	N. W.						
Frederick.....	Frederick.....	250	39° 25'	77° 25'	34.7	41.5	27.9	60	6	6	20	54	6.15	0.2	5	4	20	12	N. W.						
Woman's Col. Fred.	Frederick.....	39	25	77° 25'	36.5	42.9	30.1	60	15	6	20	54	6.07	2.0	15	4	10	6	N. W.						
New Market.....	Frederick.....	550	39° 23'	77° 16'	36.2	b45.5	g26.9	57	15, 22, 29	4	17, 18, 20	53	5.15	1.5	4	10	6	9	N. W.						
Bachman's Val.....	Carroll.....	39	37	76° 55'	32.8	41.1	24.4	54	15, 23	0	17	54	6.19	3.7	12	7	10	10	N. W.						
Western Md. Col.	Carroll.....	39	25	77° 0	34.9	43.7	26.1	59	15	1	17	58	6.46	3.0	17	5	7	7	.....					
Westminster.	McD'n'g Sch'l.	545	39° 23'	76° 46'	e34.3	47.8	26.8	56	6, 23	2	17	54	.....	.....	.....	.....	.....	.....	.....
Woodstock Col.	Baltimore.....	400	39° 20'	76° 52'	34.4	44.0	24.8	60	23	3	17	57	5.15	0.5	11	8	10	9	W.						
Baltimore.....	Baltimore.....	141	39° 17'	76° 33'	36.0	44.1	27.9	61	15	5	17	56	7.07	2.0	6	12	11	12	N.						
Johns Hopkins Hos.	Howard.....	124	39° 17'	76° 33'	34.2	42.9	25.5	60	23	5	17, 18	55	.....	.....	.....	.....	.....	.....	.....
St. Charles Coll.	Howard.....	300	39° 16'	76° 44'	36.8	43.4	29.3	58	15	12	17, 20, 21	46	5.51	.....	.....	.....	.....	.....	.....
nr Ellicott City.	Great Falls ^{**} .	150	39° 0	77° 15'	35.6	.....	.....	55	15, 24	9	17, 18, 20	46	5.50	.....	.....	.....	.....	.....	.....
Fallston School ^{**} .	Harford.....	450	39° 30'	76° 24'	33.1	.....	.....	60	23	3	17	57	6.35	3.5	6	14	9	11	S. W.				
Van Bibber.....	Harford.....	32.9	41.8	24.0	58	23	4	16, 17	54	5.49	16	1	12	6	8	8	9	9	N. W.						
Darlington Acad'y.	Harford.....	300	39° 38'	76° 12'	32.9	41.1	24.5	61	23	2	17	59	5.12	4.0	13	8	8	9	N. W.						
SOUTHERN MARYLAND.																									
Annapolis.....	Anne Arund'l.	20	38° 58'	76° 30'	34.8	42.0	27.6	63	23	8	17, 20	55	7.48	T	12	1	16	11	.....					
Jewell.....	Anne Arund'l.	165	38° 45'	76° 37'	37.1	45.9	28.3	62	1, 23	8	17	54	5.60	T	14	7	8	7	S. W.						
Dist. Res., D. C.^{**}.	.....	120	38° 55'	77° 6	35.8	.....	.....	55	15, 23	9	17	46	5.02	.....	.....	.....	.....	.....	.....
Rec. Res., D. C.^{**}.	.....	160	38° 57'	77° 7	35.6	.....	.....	55	15, 16	9	17, 18, 20	46	5.50	.....	.....	.....	.....	.....	.....
Washington, D. C.	Md. Agric't. Col.	112	38° 54'	77° 3	36.6	45.1	28.2	60	23	8	17	52	5.31	0.2	12	9	8	13	N. W.						
College Park ^{**} .	Pr. George's.	170	38° 58'	76° 56'	35.8	44.6	27.1	58	15, 23	7	22	51	5.51	0.2	.....	.....	.....	11	.....					
Upper Marlboro	Pr. George's.	60	38° 47'	76° 45'	35.7	44.5	26.9	60	23	7	22	53	6.86	T	15	7	7	10	N. W.						
La Plata.....	Charles.....	190	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Solomon's.....	Calvert.....	20	38° 19'	76° 27'	37.4	45.1	29.8	58	6, 15	12	21	46	6.44	0.2	8	3	3	18	11	S. W.					
Charlotte Hall.....	St. Mary's.....	167	38° 48'	76° 48'	36.8	47.3	26.4	64	23	5	23	59	4.87	T	14	7	8	6	neww						
Cherryfields.....	St. Mary's.....	20	38° 11'	76° 24'	36.8	.....	.....	.....	.....	5	23	59	4.62	0.5	11	13	5	9	N. W.		
EASTERN MD. AND DELAWARE.																									
Chestertown.....	Kent.....	80	39° 13'	76° 4	34.2	41.8	26.5	60	23, 29	6	17	54	6.12	T	13	7	9	9	E.						
Denton.....	Caroline.....	42	38° 53'	75° 30'	38.2	47.0	29.5	65	28	5	17	60	6.05	.....	.....	.....	.....	.....	.....
Easton.....	Talbot.....	35	38° 46'	76° 5	36.2	43.9	28.5	63	6	7	17	56	5.96	0.5	8	10	11	6	N. W.						
Cambridge.....	Dorchester.....	38	38° 44'	76° 7	38.0	46.6	29.3	62	28	9	17	53	7.19	T	12	12	5	6	N. W.						
Mardela Springs.....	Wicomico.....	25	38° 28'	75° 45'	36.6	44.9	28.3	64	6, 28	9	17	55	6.23	0.5	9	9	11	8	N. W.						
Princess Anne.....	Somerset.....	20	38° 12'	75° 41'	36.2	46.4	26.0	65	6	9	17, 21, 22	56	6.80	T	8	12	9	11	N. W.						
Pocomoke City.....	Worcester.....	37	38° 5	75° 34'	40.2	49.4	31.0	66	29	10	17	56	6.52	0.2	11	10	8	12	W.						
Wilmington, Del.	Newcastle.....	115	39° 44'	75° 33'	34.6	42.3	27.0	62	28	1	17	61	6.00	0.7	10	13	6	12	W.						
Delaware College,	Newark, Del.	39	40	75° 37'	33.0	41.0	24.9	58	6	0	17	58	4.81	1.0	10	10	9	7	W.						
Dover, Del.	Kent.....	40	38° 10'	75° 30'	36.1	43.8	28.4	63	6, 28	7	17	56	6.18	0.8	18	7	9	12	S. W.						
Milford, Del.	Kent.....	20	38° 55'	75° 25'	37.2	46.7	27.8	66	6	9	17, 18	57	6.71	2.0	20	3	6	8	N. W.						
Seaford, Del.	Sussex.....	38	38° 40'	75° 35'	37.0	46.3	27.6	65	6	7	17	58	7.02	1.0	.....	.....	.....	.....	.....	
Millsboro, Del.	Sussex.....	38	38° 44'	75° 15'	36.8	46.0	27.8	66	28	8	17	58	7.18	0.6	14	6	9	11	S. W.						
PENNSYLVANIA.†																									
Philadelphia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
VIRGINIA.‡																									
Warsaw.....	Northampton.....	.....	.....	.....	38.6	48.5	28.8	61	23	7	21	54	4.54	.....	13	7	9	5	N.		
Birdsnest*.....	Northampton.....	.....	40.5	.....	51.7	33.9	70	18	14	21	48	6.99	0.4	11	12	5	12	12	S. W.				
Norfolk.....	.....	.....	42.8	.....	.....	.....	.....	11	21	59	4.39	.....	.....	12	5	12	12	12	S. W.
AVERAGES																									
Western Maryland.....	.....	.....	31.3	39.9	22.1	.....	.....	.....	.....	.....	.....	61.5	3.84	7.2	10.4	6.7	11.9	10.7	N. W.</



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	J. M. Myers.....	W. C. Henderson.
Bachman's Valley	Carroll	{ C. P. Cronk. A. T. Brewer.	Weather Bureau.
Baltimore			
Baltimore, (The Anchorage)	Harford		Thos. Hansen.
Bel Air	Allegany	F. F. Brown.	N. N. Nock.
Boettcherville	Baltimore		B. F. Taylor.
Bradshaw	Frederick	J. P. Slifer.	A. W. Nicodemus.
Buckeystown	Dorchester	J. S. Shepherd.....	Samuel Lehman.
Burkittsville	St. Mary's	J. Francis Coad.	
Cambridge	St. Mary's	J. Edwin Coad.	
Charlotte Hall School	Kent	Hon. M. deK. Smith.	
Cherryfields	Allegany	Shriver and Rizer.	
Chestertown	Harford	Prof. A. F. Galbreath.	
Cumberland	Garrett	S. P. Specht.	
Darlington Academy	New Castle		W. E. Reybold.
Deer Park	New Castle	Prof. Wm. H. Bishop.	
Delaware City, Del.	Caroline	F. C. Ramsdell.	W. H. Dickerson.
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