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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1898.

MARYLAND AND DELAWARE SECTION
OF THE
CLIMATE AND CROP SERVICE

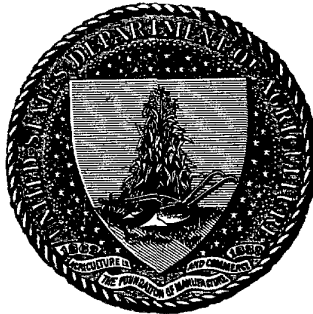
OF THE
WEATHER BUREAU.

IN COOPERATION WITH THE
MARYLAND STATE WEATHER SERVICE.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF WEATHER BUREAU,

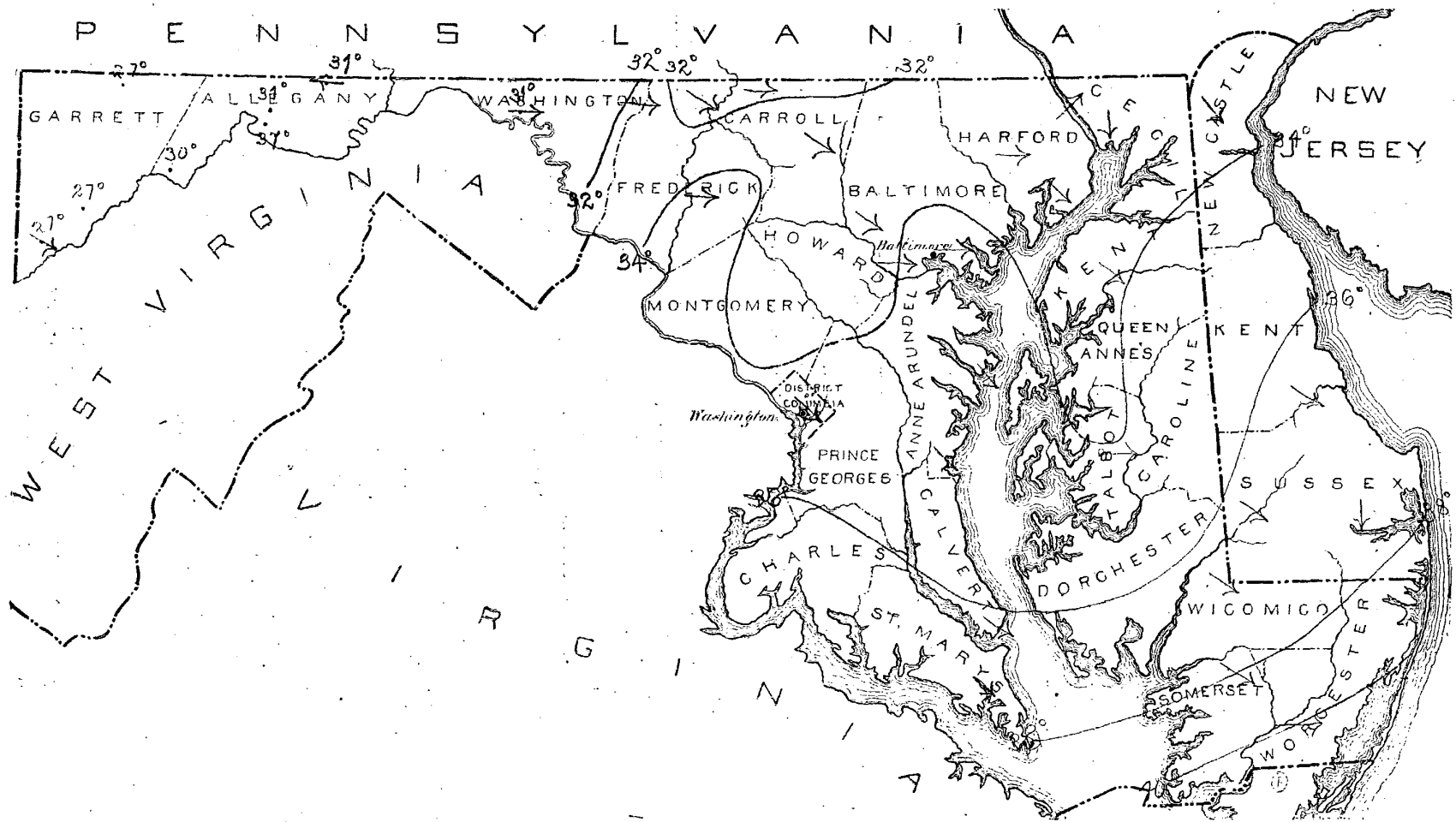
BY
F. J. WALZ,
SECTION DIRECTOR.



BALTIMORE, MD.:
WEATHER BUREAU OFFICE.
JOHNS HOPKINS UNIVERSITY.

1898.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS, FEBRUARY, 1898.



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.

O. L. FASSIG, Assistant.

BALTIMORE, MD.

VOL. III.

BALTIMORE, MD.

No. 2.

**HEAVY RAINFALL IN WASHINGTON COUNTY, MARYLAND,
 IN AUGUST 1887.**

The following is a letter written by Mr. E. G. Kinsell, Voluntary Observer, Green Spring Furnace:

In your December Report of the Weather Bureau, you speak of the probable heaviest rainfall ever recorded in Maryland.

If my memory serves me aright, on the 9th of August, 1887, we had a rainfall here, that for intensity, lays the Jewell rainfall completely in the shade. It had been an exceedingly hot day, and about 5 p. m., dark storm clouds began to gather apparently from different directions. About 6 p. m. it began raining heavily, soon coming down literally in sheets, accompanied with considerable thunder and lightning. The downpour continued without intermission until about 9.30 p. m., in all about three and one-half hours.

No rain guage was being kept in the neighborhood at that time, so we have no accurate record of the precipitation, but on my premises a wooden bucket 8 inches deep was filled, also a large iron kettle 12 inches deep, standing out in the open was filled, and how much more I do not know. About two miles north of us a neighbor had a rain barrel standing in the open and he afterward told me it was half-filled. This would indicate a rainfall of 12 to 14 inches in the short space of time mentioned.

The earth in places on steep hillsides became so saturated that it slid down in spots in a great many places. The volume of water in the little valley here (Green Spring Run) became so great as to fill up the culvert under the C. & O. Canal, built to allow any possible rainfall to pass, backed up the valley half a mile, and finally filling up the large road culvert under the work, 14 by 16 feet in size, in its effort to find a way into the Potomac River. About three miles west of us the flow of water down a small valley into the Big Pool (an enlarged portion of said canal), was so great as to throw a current across said pool, which is here about 300 yards wide, sufficient to break its bank—a very strong earthwork. The damage at these two points alone cost the canal company about \$1,500 to repair. Of course everything in the path of the water went to the river. At a culvert about four miles west of us, stones whirling half to three-fourths of a

ton were rolled out into the river where the waters spread out and lost their force.

Now this rainfall was also confined to very narrow limits. A mile or so south of us, about four miles north, and covering only about four or five miles from east to west.

There was no wind whatever with the downpour from beginning to end. Persons north of us told me that three large storm clouds came together there and seemed to roll or double up together before the rain began, not seeming to move in any particular direction. That the rainfall was purely local was proven by the fact that the river here was not raised to any extent.

Had the downpour continued here as long as at Jewell the damage would have been immense, but the waters were not at the highest until the rain had about ceased.

* * *

CONDITION OF WINTER WHEAT IN MARYLAND AND DELAWARE AT THE CLOSE OF FEBRUARY.

At the close of February the Chief of the Weather Bureau issued a request to crop correspondents for information regarding winter wheat in the principal winter-wheat growing States.

In response to this request about one hundred reports were received from the Maryland and Delaware correspondents, covering every portion of these States.

The general tenor of these reports indicated that a larger acreage than usual had been sown last fall in most sections; that the fields, at the close of February, were in general in fine condition, with fair prospects of a good yield.

There was very little snow on the ground to afford protection, excepting in Garrett County, but the winter was mild and the damage by frost slight.

In the northern-central and the eastern sections some damage was done by successive freezings and thawings, by heavy rainfall, and by the Hessian fly; but the total amount of injury was small.

On the whole the condition of winter wheat in Maryland and Delaware at the close of February was very satisfactory.

* * *

WEEKLY CLIMATE AND CROP BULLETIN.

The history of the approaching crop season in Maryland and Delaware will, as usual, be recorded in the weekly Climate and Crop Bulletins prepared at this office, and the first of the series will probably be issued on Tuesday, April 5th. It is expected that every correspondent now on the office lists will report promptly and regularly during the coming season, beginning in time to be represented in the initial number. Cards should be mailed so as to reach here on Monday morning of each week, as those arriving later cannot be used in the preparation of the bulletin.

As is generally known, each bulletin treats of the current week's weather, with special reference to the effect on the staple products of the section, of the nature and extent of

farming operations, and of the general condition of all crops, together with the progress and development in growth as compared with the preceding report. This information is obtained at first-hand from intelligent progressive farmers and others interested in agricultural pursuits, and every portion of the section is already well represented, although steps have been taken to double the number of correspondents for the coming season. These men, close observers and thoroughly familiar with their subject, have through their voluntary services, established for the bulletins a reputation for reliability and accuracy of statement seldom questioned. Aided by their generous support, this standard will be maintained during the coming year.

* * *

CLIMATOLOGY OF THE MONTH.

ATMOSPHERIC PRESSURE—IN INCHES AND HUNDREDTHS.

Monthly mean at Washington, D. C., 30.15; at Baltimore, 30.13; average, 30.14; highest, 30.64 at Baltimore, on the 4th; lowest, 29.38 at Baltimore, on the 15th.

TEMPERATURE—IN DEGREES FAHRENHEIT.

The monthly mean (entire territory), 33.7, is 1.5 above the normal.

The highest monthly mean was 40.4, at Pocomoke City.

The lowest monthly mean was 26.6, at Sunnyside.

The highest temperature recorded during the month was 70, at Pocomoke City, on the 15th, and at Charlotte Hall, on the 12th.

The lowest temperature recorded during the month was -6, at Deer Park, on the 2d.

The greatest local monthly range was 72, at Grantsville.

The least local monthly range was 52, at Chestertown and Solomons.

The greatest daily range was 46, at Sunnyside, on the 7th.

The least daily range was 2, at Denton, on the 18th and 19th.

PRECIPITATION—IN INCHES AND HUNDREDTHS.

The monthly average (entire territory) 1.62, was 1.65 below the normal.

The greatest amount was 3.21, at Deer Park.

The least amount was 0.70, at Boettcherville.

The greatest amount in twenty-four hours was 1.92, at Chestertown, on the 18th and 19th.

The average number of rainy days, 5.

WIND.

The prevailing direction was from the west.

The total movement was 3,668 miles, at Baltimore, and 5,032 miles, at Washington, D. C.

The maximum wind velocity was 46 miles per hour from the northwest, at Washington, D. C., on the 16th.

MISCELLANEOUS.

The following are dates on which various miscellaneous phenomena occurred:

Snow.—Bachman's Valley, 1, 2, 5, 21, 25; Baltimore, 3, 21, 22, 25; Boettcherville, 5, 14, 15, 25; Charlotte Hall, 21, 22; Cherryfields, 1, 21, 22; Cumberland, 15; Deer Park, 1, 16, 21, 24; Denton, 22; Dover, Del., 21; Easton, 22, 23; Fallston, 1, 2, 5, 25; Flintstone, 5, 15; Frederick, 2, 5, 21; Grantsville, 1, 5, 14, 20, 21, 22, 23, 24, 25; Green Spring Furnace, 5, 21, 25; Jewell, 21, 22; McDonogh, 1, 2, 25; Mardela Springs, 2, 23; College Park, 22; Milford, Del., 25; Millsboro, Del., 4; Mt. St. Mary's, 2, 5, 15, 21, 25; New Market, 1, 4, 21; Newark, Del., 20, 22, 25; Port Deposit, 1; Princess Anne, 1, 22; Seaford, 21, 25; Sharpsburg, 2, 5, 12, 21, 22, 25; Smithsburg, 1, 19; Solomons, 1, 21, 22; St. Charles College, 21; Sunnyside, 1, 2, 5, 14, 15, 16, 21, 22, 23, 24, 25; Taneytown, 2, 5; Van Bibber, 17, 24; Westernport, 2, 13, 14, 15, 20, 23, 24; Woodstock, 22.

Hail.—Bachman's Valley, 18; Chestertown, 18; Cumberland, 20; McDonogh, 18; Taneytown, 21.

Sleet.—Bachman's Valley, 8; Boettcherville, 18; Chestertown, 18; Cumberland, 18; Flintstone, 18; Laurel, 18; Mt. St. Mary's, 15, 18; New Market, 8; Sharpsburg, 15, 18; St. Charles College, 18; Taneytown, 18.

Aurora.—Princess Anne, 25.

Fogs.—Bachman's Valley, 5, 20; Baltimore, 9; Charlotte Hall, 8; Chestertown, 19, 20; Jewell, 19, 20; Mardela Springs, 10, 20; Millsboro, 20; New Market, 11, 19, 20; Princess Anne, 8, 9, 10, 20; Solomons, 20; St. Charles College, 18, 19, 20; Woodstock, 10, 11, 19.

High winds.—Annapolis, 1, 17; Bachman's Valley, 1, 15, 16; Baltimore, 1, 15, 16; Cherryfields, 15, 16; Easton, 1, 16; Green Spring Furnace, 15, 16; Jewell, 16; Laurel, 15, 16; McDonogh, 15, 16; Mardela Springs, 15, 16; Port Deposit, 16; Seaford, 1, 15, 16; Solomons, 16; St. Charles College, 1, 16; Taneytown, 15, 16; Van Bibber, 15; Washington, 16; Western Maryland College, 15; Woodstock, 1, 15, 23.

Thunderstorms.—Frederick, 20; Grantsville, 15; McDonogh, 15.

Distant lightning.—Solomons, 12.

Halos, lunar.—Jewell, 28; Laurel, 27; Mt. St. Mary's, 9, 27, 28; Pocomoke City, 27; Smithsburg, 27; Taneytown, 28; Washington, 1, 27, 28.

Corona, lunar.—Mardela Springs, 2, 3; Millsboro, Del., 2, 6, 9, 23, 25.

Halos, solar.—Bachman's Valley, 8, 28; Jewell, 2, 8, 28; Mardela Springs, 2, 7, 8, 28; Solomons, 2; Washington, 8.

Sun dogs.—Bachman's Valley, 24; Jewell, 2, 27.

* * *

REMARKS BY OBSERVERS.

The month has been open, but winter grain is in good condition.—J. S. MILLER, Grantsville.

The month has been remarkable for fine winter weather. The Potomac was closed with ice for the second time this winter on the 2nd of February.—E. G. KINSELL, Green Spring Furnace.

A red bird was seen on the 13th.—DR. JAMES MITCHELL, Mt. St. Mary's.

Climatological data for Maryland and Delaware, February, 1898.

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	Allegany	700	8	31.2	+0.9	65	10	2	4	36	0.70	-2.34	0.40	2.0	3	10	70	8		F. F. Brown.																		
Cumberland	Allegany	722	39	37.0	+5.0	66	10	2	2	31	0.82	-1.80	0.50	0.5	4	10	70	8		Howard Shriver.																		
Deer Park	Garrett	2,457	7	26.8		61	11	6	2	42	3.21		1.30	22.0	6					S. P. Specht.																		
Flintstone	Allegany	800	3	31.4		64	9	3	2	40	1.72		0.75	2.0	5	11	7	E		N. T. Downs.																		
Grantsville	Garrett	2,400	5	27.9		67	11	5	2	33	2.66		0.50	14.5	11	5	14			J. S. Miller.																		
Green Spring Furnace	Washington	500	6	31.0	+0.4	60	12	1	4	32	1.25		0.62	T.	5	16	8	W		E. G. Kinsell.																		
Hagerstown	Washington	550	7	33.4		62	12	3	2	34	1.10		0.55		3	17	3	4		Prof. C. E. Carl.																		
Sharpsburg	Washington	450	4	31.2		60	12	3	2	27	1.24		0.48	T.	5	15	5	8	NW	R. L. Hiberger.																		
Smithsburg	Washington	750	1	31.5		68	9	1	3	40	1.49		1.20	T.	5	16	5	7		L. J. Bell.																		
Sunnyside	Garrett	2,440	6	26.6	+4.6	64	11	1	2	46	2.65	-1.25	0.68	13.0	13	12	4	12	NW	J. G. Knauer.																		
Westonport	Allegany	1,000	4	30.2		66	10	1	1	36	0.76		0.30	2.5	8					Prof. O. H. Bruce.																		
Average				30.7	+2.7						1.55	-1.80		5.6	6	13	7	8	NW																			
NORTHERN-CENTRAL MD.																																						
Bachman's Valley	Carroll	860	5	31.2		58	10	2	4	29	1.91		0.86	T.	5	18	3	7	NW	J. M. Myers.																		
Baltimore	Baltimore	123	64	35.2	-1.2	65	12	10	2	27	1.32	-2.23	0.63	T.	6	15	5	8	W	U. S. Weather Bureau.																		
Baltimore, J. H. Hospital	Baltimore	124	4	33.0		65	12	7	3	29	1.64		0.62		7	18	5	5	W	Prof. A. F. Galbreath.																		
Darlington Academy	Harford	300	9	33.0	+5.0	62	12	1	4	31	1.73	-0.99	1.33		3	15	9	4	SW	G. G. Curtiss, A. M.																		
Fallston School	Harford	450	30	33.0	+0.7	61	12	3	2	26	1.59	-2.01	0.70	T.	6	7	15	9	W	McClintock Young.																		
Frederick	Frederick	250	26	34.0	+1.3	63	12	5	4	30	1.49	-1.21	0.63	T.	6	12	10	6	W	Capt. D. D. Gaillard.																		
Great Falls	Montgomery	150	10	32.8	+0.1	64	13	6	5	38	1.12	-1.22	0.47		6	19	9	0	NW	W. L. Woods.																		
McDonogh School	Baltimore	545	23	33.6	+0.2	60	13	2	2	25										S. H. Moore.																		
Mt. St. Mary's College	Frederick	720	38	30.3		62	12	2	4	29	1.41	-1.65	0.75	0.9	8	18	14	6	NW	J. A. Mitchell, Ph. D.																		
New Market	Frederick	550	15	30.8		61	11	2	4	40	1.97	-0.35	0.88	T.	5	13	5	9	NW	H. H. Hopkins, M. D.																		
St. Charles College	Howard	500	4	32.6		65	12	1	4	34	1.37		0.45	T.	5	13	10	10	W	Rev. George L. Harig																		
Taneytown	Carroll	495	6	31.6		63	11	3	5	34	1.86		0.62	1.1	9	15	3	2	NW	Prof. H. Meier.																		
Van Bibber	Harford	20	3	32.6		62	12	4	2	27	2.20		1.08	T.	4	20	6	6	W	H. A. Wroth.																		
Western Maryland Coll.	Carroll	720	4	34.2		62	9	3	1	30	1.62		1.62		2	6	19	3	NW	Prof. Roland Watts.																		
Woodstock College	Baltimore	392	29	32.1	-0.7	61	10	2	4	38	1.31	-2.01	0.97	T.	3	18	2	8	NW	T. J. A. Freeman, S. J.																		
Average				32.8	+0.8						1.61	-1.46		0.2	5	14	8	6	NW																			
SOUTHERN MARYLAND.																																						
Annapolis	Anne Arundel	20	25	36.4		63	12	7	2	23	1.40	-2.09	0.77		4	20	3	5	NW	J. E. Abbott.																		
Charlotte Hall School	St. Mary's	167	5	35.6		70	12	2	2	40	1.10		0.86	0.2	4	16	7	5	NW	J. F. Coad.																		
Cherryfields 2	St. Mary's	20	8	36.9		70					1.45		0.60		7	13	10	5	NW	Col. J. E. Coad.																		
Distributing Reservoir 3	Dist. of Columbia	120	8	34.2	+1.2						1.37	-1.06	0.59		6					Captain Gaillard.																		
Jewell	Anne Arundel	165	11	35.0	-0.2	66	12	5	2	31	1.55	-1.72	1.30	T.	3	18	6	4	NW	J. Plummer.																		
Laurel	Prince George's	150	4	33.2		61	10	2	4	36	0.92		0.82		2	9	11	8	W	Dr. T. M. Baldwin.																		
Md. Agricultural College	Prince George's	170	7	36.2	+2.1	68	11	11	4	35	1.36	-2.40	0.59	T.	5	6				Prof. J. H. Patterson.																		
Receiving Reservoir 3	Dist. of Columbia	160	8	37.2	+5.0						1.45	-0.81	0.49		6					Captain Gaillard.																		
Solomon's	Calvert	20	7	36.4	+0.2	63	12	11	2	26	1.86	-1.61	1.28	0.4	6	13	6	9	NW	W. H. Marsh, M. D.																		
Washington	Dist. of Columbia	112	28	35.0	-1.1	67	12	2	4	34	1.64	-1.67	0.69	T.	5	12	8	8	NW	U. S. Weather Bureau.																		
Average				35.6	+1.2						1.41	-1.62		0.1	5	14	7	6	NW																			
EASTERN MARYLAND.																																						
Chestertown	Kent	80	14	33.8	+1.7	61	12	9	2	32	1.97		1.92		3	19	2	7	NW	Hon. M. de K. Smith.																		
Denton	Caroline	42	9	35.4		67	13	7	4	20	2.03		1.75	T.	3	19				F. C. Ramsdell.																		
Easton	Talbot	35	9	34.3	-0.3	63	11	10	2	35	1.60	-1.63	0.50	T.	5	20	3	8	W	Henry Shreve.																		
Mardela Springs	Wicomico	25	11	37.3	+1.1	67	11	9	4	36	2.03	-1.80		T.	7	16	7	5	NW	A. E. Acworth.																		
Pocomoke City	Worcester	37	5	40.4		70	15	12	2	35	1.50		0.58		7	16	7	5	W	R. M. Stevenson.																		
Port Deposit	Cecil	1	1	33.4		64	12	2	4	31	2.10		0.70	1.0	7	19	0	9	N	J. I. France.																		
Princess Anne	Somerset	20	24	37.5	-1.5	66	11	11	4	36	1.40		0.64	T.	7	10	13	5	NW	J. R. Stewart.																		
Average				36.0	+0.2						1.80	-1.71		0.2	6	17	5	6	NW																			
DELAWARE.																																						
Dover	Kent	40	22	34.8	-0.3	63	12	6	2	29	2.35	-1.03			8	19	2	7	NW	A. A. Bateman.																		
Kirkwood 2	Newcastle	60	2																	J. S. Carnagy.																		
Milford	Kent	20	19	38.9	+4.7	65	11	10	3	31	1.68	-2.73	1.60	T.	2	19	1	8	NW	J. Y. Fouk.																		
Millsboro	Sussex	23	6	36.5	+4.4	64	16	10	4	36	1.24	-2.53	0.73	T.	4	21	1	26	N	Rev. L. W. Wells.																		
Newark (Delaware Coll.)	Newcastle	136	8	33.2		61	12	0	4	34	2.04			T.	5	18	1	9	NW	Prof. W. H. Bishop.																		
Seaford	Sussex	49	8	36.6	+3.0	65	11	11	2	27	1.81	-1.47	1.54	T.	5	18	0	10	NW	H. L. Wallace.																		
Average				36.0	+3.0						2.00	-1.94		T.	5	19	1	12	NW																			
General average				33.7	+1.5						1.62	-1.65		1.8	5	15	6	7	NW																			

NOTE.—All records are used in determining State or district means, but State and district departures are determined by comparison of current data of only such stations as have normals.

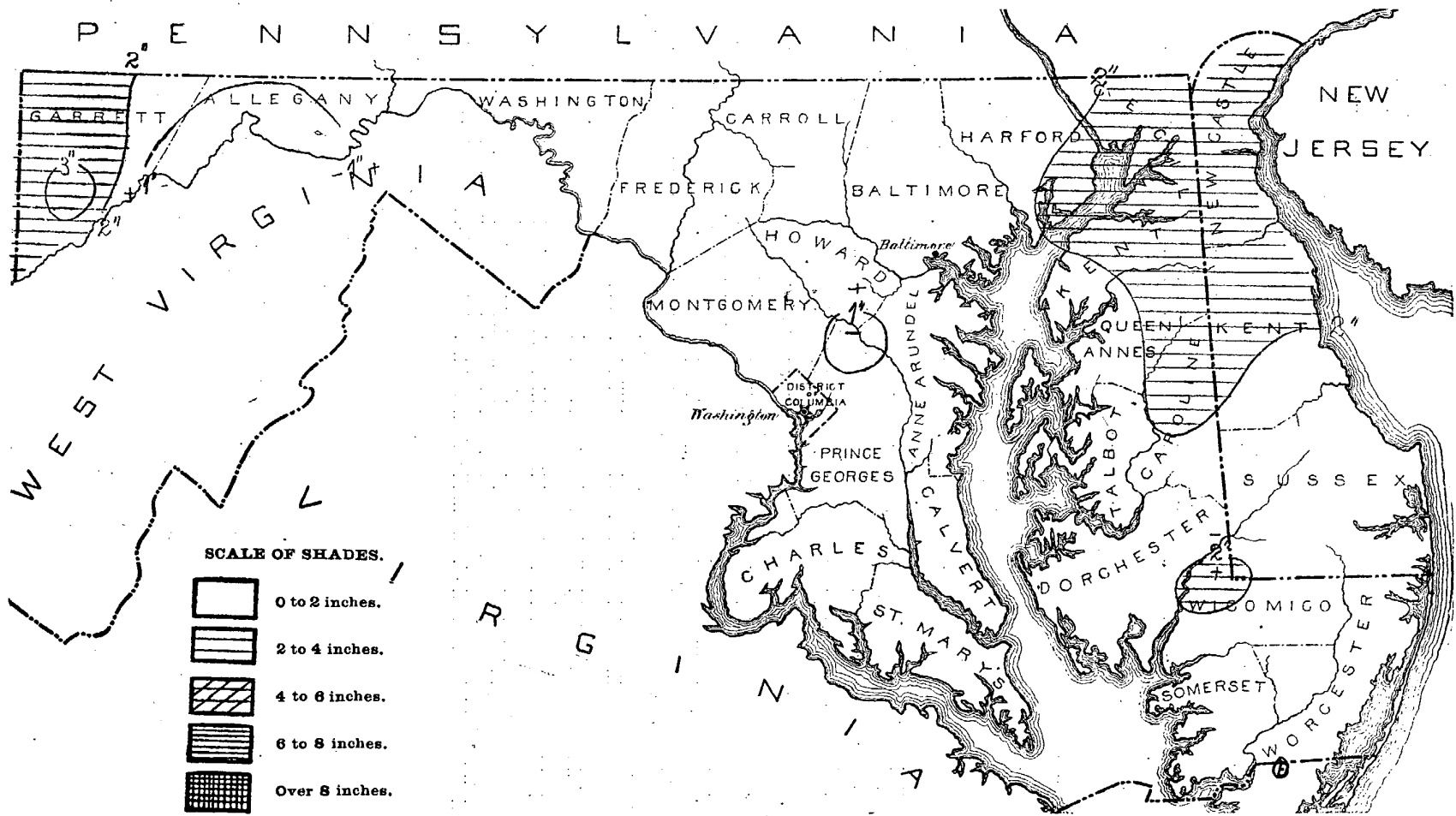
2 Mean of 8 a. m. + 8 p. m. + 2.

3 Mean of 7 a. m. + 2 p. m. + 2.

Maximum and minimum temperatures for Maryland and Delaware, February, 1898.

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.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.								
Annapolis.....	22	14	26	7	21	13	34	14	38	16	38	22	40	26	38	28	43	39	59	30	55	44	63	40	51	37	55	39	54	40	43	18	45	31	49	35	41	34	47	38	46	37	46	31	46	31	44	29	51	32	44	38	40	33	20	41	29	39	26	43	3	29	3	
Bachman's Valley..	32	14	20	4	20	5	20	2	38	10	34	20	44	26	44	28	47	31	58	30	56	32	63	40	46	34	47	27	43	29	40	30	40	19	35	14	42	36	45	35	43	34	39	29	45	27	47	27	41	25	42	27	42	24	40	27	42	6	27	3				
Baltimore, J. H. Hp'l.	19	11	23	7	20	7	34	9	40	10	38	33	43	21	40	23	48	28	59	39	59	34	65	37	52	40	42	30	46	26	30	21	39	17	37	18	42	31	45	36	43	31	40	26	45	26	40	30	42	22	40	24	41	27	41	4	24	6						
Boettcherville.....	20	8	20	2	20	4	38	2	38	10	40	26	40	26	40	15	42	19	54	25	65	31	65	29	55	42	42	30	50	20	44	15	40	14	40	28	47	35	45	46	36	43	35	35	25	45	26	40	30	42	22	42	19	40	21	41	0	21	5					
Charlotte Hall.....	30	15	30	2	29	9	40	4	46	15	44	22	52	18	40	22	58	25	66	26	66	30	70	41	51	28	61	26	58	33	42	23	44	19	45	30	43	36	47	39	46	33	41	29	45	23	54	27	50	23	42	18	41	25	43	22	47	8	23	4				
Chestertown.....	21	15	25	9	18	11	34	10	39	19	43	12	40	23	43	31	51	25	62	29	62	30	70	41	46	35	53	30	47	29	37	27	21	21	37	27	40	40	40	43	38	44	32	40	29	38	24	40	27	41	36	40	24	41	7	25	8							
Cumberland.....	21	14	31	9	20	12	34	12	40	23	43	17	51	25	43	31	51	25	62	29	62	30	70	41	46	35	53	30	47	29	37	27	21	21	37	27	40	40	40	43	38	44	32	40	29	38	24	40	27	41	36	40	24	41	8	29	2							
Darlington.....	29	14	21	4	20	8	31	1	39	17	36	26	44	19	47	25	48	28	58	31	62	34	65	34	68	34	44	35	44	28	35	19	40	4	45	28	42	38	42	38	44	34	40	30	40	29	49	27	43	26	40	20	38	13	39	2	41	4	24	5				
Deer Park.....	20	1	16	-6	14	-4	38	-4	34	11	35	20	45	3	48	11	51	26	57	29	65	31	63	34	54	34	36	29	41	19	47	21	31	6	40	4	38	30	39	32	34	22	29	17	30	18	28	-1	32	19	38	2	41	4	24	5								
Denton.....	28	12	24	9	25	8	24	7	30	22	36	24	40	30	44	32	48	35	52	37	60	40	63	45	67	49	65	48	45	41	33	28	29	22	40	38	42	40	48	42	43	38	40	22	37	29	38	30	35	28	33	23	35	29	38	30	40	8	29	9				
Dover, Del.....	21	14	25	6	23	12	36	9	41	19	40	28	45	23	48	24	57	29	62	35	67	34	63	42	63	34	47	27	43	29	37	17	38	27	43	35	52	43	47	37	45	32	41	28	38	24	40	29	40	24	40	27	41	23	43	2	28	8						
Easton.....	20	17	27	10	21	11	31	12	43	15	39	27	45	22	48	24	50	26	55	28	63	34	62	34	48	34	54	31	58	32	31	25	38	20	42	22	48	29	48	38	42	38	40	22	37	29	38	30	35	28	39	34	40	23	41	23	43	6	25	9				
Fallston School.....	30	11	20	3	18	8	39	2	42	24	48	24	48	24	48	24	47	30	56	30	63	30	65	41	61	41	48	34	50	29	44	31	6	40	4	45	28	39	33	43	38	42	36	44	30	41	29	51	29	43	28	40	20	40	2	25	5							
Flintstone.....	31	9	23	-3	24	4	36	-2	31	9	41	23	48	12	45	17	64	24	60	28	62	28	60	32	46	34	50	18	52	22	40	16	40	12	37	27	41	33	40	36	41	33	37	25	48	26	46	26	41	25	36	20	36	16	42	7	20	2						
Frederick.....	24	12	23	8	27	10	35	5	38	17	39	29	46	18	47	25	51	29	58	32	63	30	63	43	47	39	52	28	44	24	32	22	38	18	36	30	41	34	42	38	40	35	39	30	41	26	50	30	40	29	41	23	41	31	40	23	41	9	26	1				
Grantsville.....	12	1	17	-5	14	-4	41	5	34	17	38	20	51	11	51	20	57	29	62	35	67	34	65	42	47	39	52	28	44	24	47	24	16	6	41	6	41	30	40	34	40	33	33	24	28	18	31	20	40	26	15	31	12	30	4	40	2	18	4					
Green Falls.....	19	13	23	7	26	9	33	9	41	3	42	19	47	21	48	23	51	29	61	29	63	31	64	38	51	25	51	31	51	21	37	12	34	28	41	19	43	32	40	36	46	36	41	35	40	25	38	25	49	24	50	24	42	19	38	28	38	19	43	2	21	3		
Green Sp. Furnace..	32	10	23	2	21	4	31	1	34	16	40	15	41	12	43	18	48	18	54	30	59	27	60	41	64	35	50	21	44	27	41	19	37	12	34	28	40	33	44	36	46	36	46	33	39	29	39	26	38	24	38	17	40	17	40	9	21	3						
Hagerstown.....	32	9	22	3	20	5	32	6	33	21	38	25	45	11	45	24	51	28	59	34	66	33	62	47	50	36	51	28	50	30	42	19	38	14	39	29	39	32	42	34	50	32	42	34	50	32	40	28	38	23	43	35	47	27	37	21	38	23	43	20	42	7	24	1
Jewell.....	10	11	26	5	25	9	39	13	42	23	40	29	47	22	45	28	50	28	60	30	66	35	66	42	48	34	56	30	53	34	37	19	40	17	39	39	42	35	49	38	45	33	40	30	40	26	54	29	43	30	40	21	40	23	39	24	41	21	39	24	41	9	24	2
Laurel.....	18	14	26	11	24	10	38	2	38	14	38	27	44	18	49	20	53	26	61	27	67	31	60	44	59	32	58	30	64	35	45	26	37	20	49	27	40	35	41	36	45	31	40	25	50	25	48	27	37	20	41	19	41	20	41	19	41	20	41	9	24	2		
Mardela Springs....	34	16	30	11	30	13	40	9	45	20	41	29	49	20	48	28	51	19	52	23	57	28	68	35	60	39	64	35	45	26	37	20	45	23	38	33	41	37	46	39	43	39	42	32	43	39	52	27	48	30	42	25	43	22	43	22	47	6	27	1				
Maryland Ag. Coll..	21	18	27	19	26	13	38	11	44	14	40	28	51	19	52	23	57	28	63	28	68	35	68	45	60	38	50	33	39	36	32	20	36	16	40	30	44	35	44	36	43	34	39	32	43	26	47	30	52	27	36	22	35	25	42	2	27	2						
McDonogh School..	24	10	23	6	19	8	34	9	39	19	41	24	42	24	42	24	46	26	49	32	59	34	55	47	60	38	50	33	39	36	32	20	36	16	40	30	44	35	44	36	43	34	39	32	43	26	47	30	52	27	36	22	35	25	42	2	27	2						
Milford, Del.....	20	18	33	10	33	18	42	12	48	22	45	33	50	26	46	26	52	28	62	31	65	34	63	48	57	38	60	31	61	34	48	26	47	21	42	29	43	37	54	44	51	41	51	48	56	42	51	33	43	29	48	31	47	26	48	28	44	29	48	5	29	0		
Millsboro, Del.....	30	18	30	10	27	14	26	10	36	20	46	31	40	22	45	22	46	26	48	20	60	30	62	45	62	33	53	33	64	26	39	19	39	19	39	29	47	41	51	48	56	42	51	33	43	29	48	30	54	31	47	26	48	28	44	29	48	2	29	0				
Mt. St. Marys Coll..	16	3	18	3	19	3	31	2	34	22	38	17	42	19	44	25	48	29	57	35	59	37	62	36	62	48	51	29	41	19	26	14	36	17	35	29	38	35	39	33	39	28	39	23	37	27																		

TOTAL PRECIPITATION, FEBRUARY, 1898.



Daily precipitation for Maryland and Delaware, February, 1898.

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.																																						
Boetherville.....					†									†	.20			.10		.40																.70		
Cumberland.....															.25			.50	.05																	.82		
Deer Park.....	1.30														.79	.40				.22	.30				.20										3.21			
Flintstone.....					.10										.10			.62	.15	.75																1.72		
Grantsville.....	.20				.10							.30			.50			.22		.10	.10	.10	.04	.10	.30										2.06			
Green Spring Furnace.....															.09			.62	.06	.02	.46															1.25		
Hagerstown.....																		.55	.07	.48																1.10		
Sharpsburg.....		†			†									†	.05			.48	.20		.51	†				†										1.24		
Smithsburg.....	†				†							.01			.10						1.38															1.49		
Sunnyside.....	.15	.10			.20							.05		†	.45	.10		.68		.34	.10	.16	.05	.02	.25										2.65			
Westernport.....			.02											†	.05	.12		.30	.17	.06	.02															.76		
NORTHERN-CENTRAL MARYLAND.																																						
Bachman's Valley.....	†	†			†										.13			.69	.17	.14	.78					†										1.91		
Baltimore.....			†									.06			.08			.17	.63	.12	.26	†															1.62	
Baltimore, Johns Hopkins Hospital.....												.08			.08	.07		.08	.62	.22	.53	.04															1.62	
Darlington Academy.....												.08						1.33	.32																		1.73	
Fallston School.....	†	†			†							.04			.01	†		.17	.70	.31	.36																1.59	
Frederick.....		†			†							.04			.06			.50	.19	.07	.63					†											1.49	
Great Falls.....	.08				†										.05		.08	.28	.16	.47																	1.12	
McDonogh School.....																																						
Mt. St. Mary's College.....					†										.10			.30	.18	.20	.63					†											1.41	
New Market.....	.02				.01							.07			.08			.55	.32	.88	.04																1.97	
St. Charles College.....					†										.05			.24	.45	.27	.36																1.37	
Taneytown.....		.02				.22									.07				.53	.28	.62	.03				.05											1.86	
Van Bibber.....											.09							†	.62	1.08	.41																2.20	
Western Maryland College.....																					1.62																1.62	
Woodstock College.....		†																		.97		.34	†														1.31	
SOUTHERN MARYLAND.																																						
Annapolis.....																.11		.21	.77	.31	†																1.40	
Charlotte Hall School.....																		.05	.86	.17	†																1.10	
Cherryfields.....	†											.03			.23			.75	.60	.23	.02	.09															1.45	
Distributing Reservoir, D. C.....	.05														.07			.09	.59	.27	.30																1.37	
Jewell.....																		1.30	.20	†	†																1.55	
Laurel.....																	.10		.82																			.92
Maryland Agricultural College.....															.15			.09	.59	.33	.21	†															1.36	
Receiving Reservoir, D. C.....	.13														.11			.05	.49	.26	.41																1.45	
Solomon's.....	†														.15			.09	1.28	.30	.02	.02															1.86	
Washington, D. C.....			†														.14	.69	.20	.41	†	†															1.64	
EASTERN MARYLAND.																																						
Chestertown.....												.05								1.92																	1.97	
Denton.....																				1.75	.28		†														2.03	
Easton.....												.01										1.59	†															1.60
Mardela Springs.....		†													.17							1.66																2.03
Pocomoke City.....	.33				.03	.02										.18				.58	.36																	1.50
Fort Deposit.....	.10														.25			.10	.30	.60																		2.10
Princess Anne.....	†				.02										.12			.10	.64	.44		.04	.04															1.40
DELAWARE.																																						
Dover.....	.04				.03							.01			.14					2.00	.10	.03															2.35	
Milford.....																				1.68							†											1.68
Millsboro.....					†							.06			.27				†	.73	.18																	1.24
Newark (Delaware College).....												.06			.10					2.43	.35	†				†												2.94
Seaford.....					.04							†			.23						1.54					†												1.81

† Trace, when precipitation is less than 0.01 inch.