

FEB 18 1899

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1899.

MARYLAND AND DELAWARE SECTION
OF THE
CLIMATE AND CROP SERVICE
OF THE
WEATHER BUREAU.

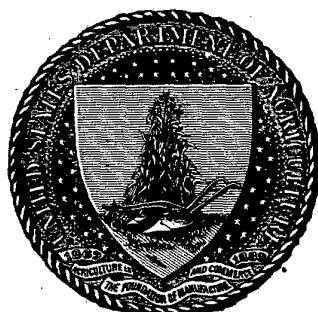
IN COOPERATION WITH THE
MARYLAND STATE WEATHER SERVICE.

(Prof. Wm. B. Clark, Director; Prof. Milton Whitney, Secretary and Treasurer.)

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

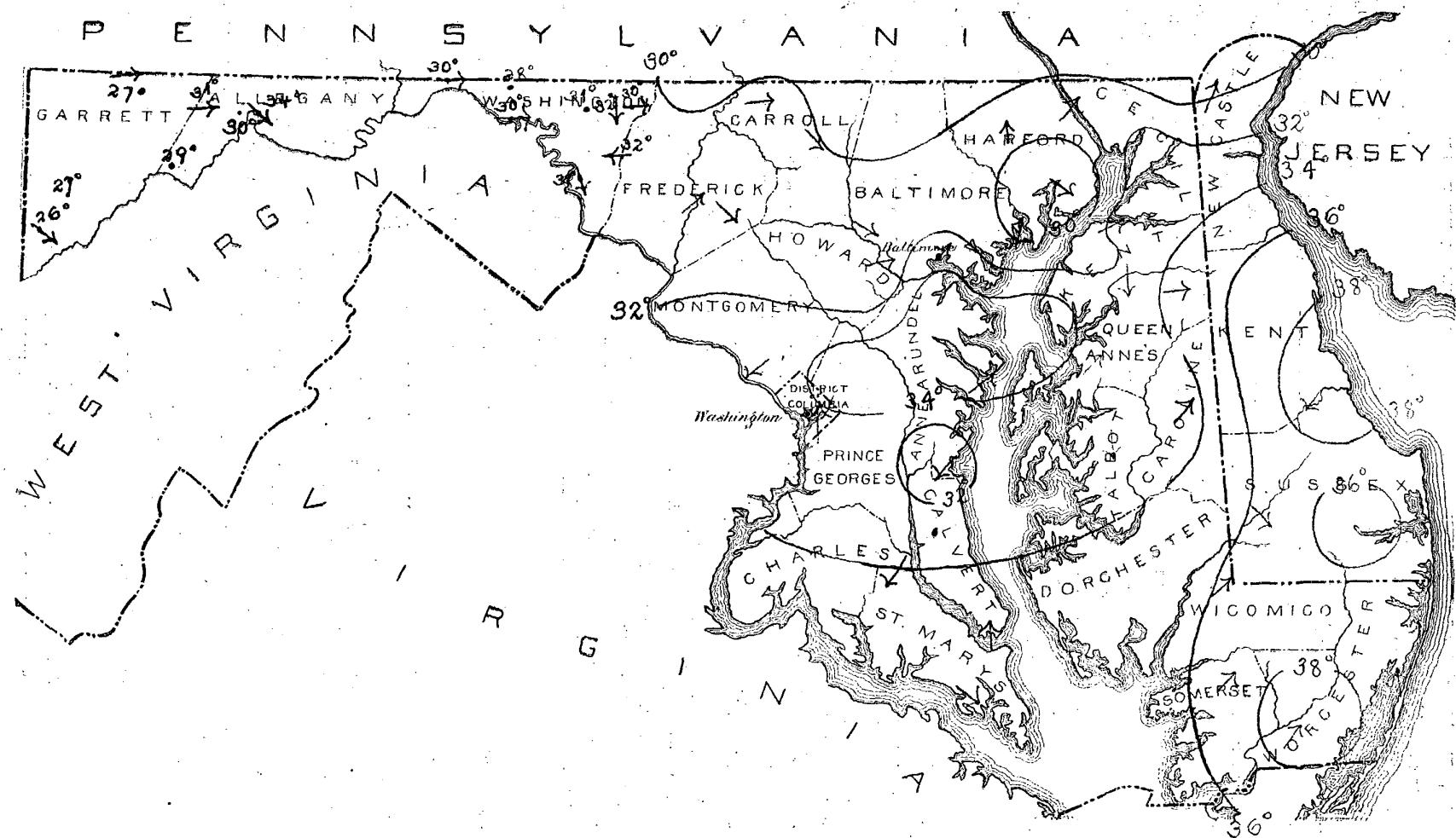
BY

F. J. WALZ,
SECTION DIRECTOR.



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

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS, JANUARY, 1899.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

BALTIMORE, MD.

VOL. IV.

BALTIMORE, MD.

No. 1.

THE WEST INDIES CLIMATE AND CROP SERVICE.

The first bulletin of the Puerto Rican Section of the Climate and Crop Service of the Weather Bureau, has been received. This bulletin is to be issued regularly hereafter at San Juan, by the Section Director, Prof. Mark W. Harrington, formerly Chief of the U. S. Weather Bureau. A similar publication will at an early date be issued for the island of Cuba from Habana. These bulletins are to be printed in the original in Spanish for local distribution in their respective islands, but copies translated into English, will be published simultaneously in the United States.

The first bulletin gives a brief summary relative to the coffee, sugar cane, tobacco, and rice crops, and minor products. This is followed by quotations, or remarks from the various correspondents. As to coffee, the bulletin says: "The harvest ended early in December; the future crop looks well." The cutting season of sugar cane is approaching. Tobacco plants are developing favorably on account of frequent showers. The crop will be gathered in April.

Decided work has been already performed by the Weather Bureau in the matter of establishing sections of its Climate and Crop Service in Puerto Rico and Cuba. Twenty voluntary stations have been established in the first-named island, and the work of establishing a larger number of stations in Cuba is well advanced.

* * *

WARM WINTER OF 1792-'93.

The following interesting bit of gossip about the weather and its consequences during the winter of 1792-'93 is given by Martha Washington in a letter written to Mrs. Frances Washington, dated Philadelphia, February the 3d, 1793. "The winter has been remarkably warm, which occasions the season to be very sickly. Mr. Blair has arrived here and tells his friends that a great number of our acquaintances are dead below. The winter has been so warm here that the farmers have been plowing all winter, and we are in fear that there will not be ice to fill the ice houses in the city, which will be a great disappointment to us in the warm season. Ice is the most agreeable thing we can have here."

It might be of interest to state in connection with what this letter says about ice, that ice was first shipped from the Northern States to Baltimore (Thomas W. Griffith's *Annals of Baltimore*) in the summer of 1828. Several cargoes were brought to this port during that summer and the ice sold for about a dollar a bushel, or about a dollar and thirty-five cents per hundred pounds.

DESTRUCTIVE STORM OF DECEMBER 4, 1898.

One of the severest wind and rain storms that has visited this vicinity for a great many years, passed over this section Sunday, December 4th, 1898. The local tempestuous conditions were caused primarily by the passage to the northeast of a storm area which had its inception in the west Gulf some two to three days before. This storm center entered the United States near Galveston, Texas, and moved northeastward across the Mississippi to the Ohio Valley, and Sunday morning at eight o'clock was centered in Kentucky and had increased very decidedly in energy. From this point it continued in its northeast course, with augmented force, crossing Maryland in the afternoon, then bending sharply to the north reached the region of eastern Lake Erie by 8 a. m. the 5th.

The local conditions at Baltimore, as shown by the self-recording instruments were as follows: The wind freshened perceptibly in the morning, with a prevailing direction of east to northeast, and became high about noon, after which it blew with a steady velocity of twenty-five to thirty miles per hour until four o'clock. At this time the wind subsided to gentle breezes from the southeast and southwest, which prevailed until 4.45 p. m., when a sudden shift to southeast and east was followed by an immediate and marked increase in velocity. The highest rate of movement, sixty miles per hour, was reached at 4.45 p. m., and was maintained for four consecutive minutes, after which the storm rapidly abated, and was practically over by 5 p. m. The barometer began to fall about 8 o'clock in the morning, and continued falling very rapidly throughout the morning and afternoon. From 8 o'clock a. m. when it was 29.60 inches to 6.30 p. m. when it reached the lowest point, 29.05 inches, the total fall was 0.55 inch, while between 12 o'clock and 2 o'clock it fell one-fourth of an inch.

The damage during the height of the storm was great, a moderate estimate placing the loss at \$100,000. About 220 houses were partly or wholly unroofed, and innumerable signs, awnings, and shutters were blown away or wrecked. Local telephone companies experienced losses of some \$15,000, while street car and telegraph companies suffered through damage to wires and poles.

A brilliant effect, and one really alarming until explained, followed the destruction of a large gas tank, which, being damaged by the storm, caught fire and blew up at 4.43 p. m. and illuminated with a reddish glare the low flying clouds, increasing at the same time the apprehension of the more timid, already excited by the developing storm.

There was but one fatality from the storm, and that indirect, a colored man being instantly killed by treading on a fallen electric wire. Fortunately the storm occurred on Sunday, and the inclement weather of the entire forenoon had detained nearly every one indoors, otherwise there would undoubtedly have been considerable loss of life.

The storm seems to have been most violent in the northwest section of the city, among the substantial residences. Although the damage and destruction was not at all local, all sections suffering. In the harbor, while shipping escaped

injury to any great extent, the sea was very high, and on the west side the waves occasionally swept over the wharves in great splashes, and the high tide and winds hurled the tops of waves on the decks of vessels that were low in the water. All vessels at anchorage secured themselves with hooks down, while those at the pier put out extra lines. Only one boat, the Chester River liner, "Gratitude," ventured to leave her moorings. She made her way bravely, but with great difficulty, until well past North Point where the gale had full sweep, and drove her toward shore staying in one of her bulkheads. Then her captain, deciding it prudent not to try to proceed further, made about and ran safely back to port.

Storm warnings were received and sent out to all shipping interests Saturday afternoon; these warnings were supplemented by further warning between 1 and 2 p. m. Sunday.

Careful observation made during and after the storm failed to disclose any evidences of tornado formation, nor was anything like a funnel-shaped cloud apparent at the time. The damage was produced by the direct force of the wind, aided by the driving sheets of rain. This is evident from the fact that houses on the west side of the street suffered most. These not only presented a fell front to the wind, but gave it additional leverage from the broad projecting cornices facing eastward. On the other hand, the houses across the street presented a lesser surface to the winds, through the downward slope of the roofs, and thus, as was to be expected, escaped with but slight damage.

* * *

CLIMATOLOGY OF THE MONTH.

ATMOSPHERIC PRESSURE—IN INCHES AND HUNDREDTHS.

Monthly mean at Washington, D. C., 30.19; at Baltimore, 30.18; average, 30.18; highest, 30.98 at Washington, D. C., and at Baltimore, on the 2d; lowest, 29.81 at Baltimore, on the 24th.

TEMPERATURE—IN DEGREES FAHRENHEIT.

The monthly mean (entire territory), 32.9, is 1.3 above the normal.

The highest monthly mean was 39.3, at Pocomoke City.

The lowest monthly mean was 26.4, at Sunnyside.

The highest temperature recorded during the month was 70, at Ocean City, on the 15th.

The lowest temperature recorded during the month was —24, at Sunnyside, on the 2d.

The greatest local monthly range was 82, at Deer Park.

The least local monthly range was 46, at Solomons.

The greatest daily range was 57, at Sunnyside, on the 2d.

The least daily range was 0, at Mardela Springs, on the 14th and 28th, and at Md. Agricultural College, on the 13th.

PRECIPITATION—IN INCHES AND HUNDREDTHS.

The monthly average (entire territory) 3.30, was 0.62 above the normal.

The greatest amount was 6.59, at Sunnyside.

The least amount was 1.31, at Boettcherville.

The greatest amount in twenty-four hours was 1.78, at Coleman, on the 6th.

The average number of rainy days, 10.

WIND.

The prevailing direction was from the southwest.

The total movement was 3,840 miles, at Baltimore, and 4,863 miles, at Washington, D. C.

The maximum wind velocity was 32 miles per hour from the northwest, at Washington, D. C., on the 7th.

MISCELLANEOUS.

The following are dates on which various miscellaneous phenomena occurred:

Snow.—Annapolis, 12, 31; Bachman's Valley, 1, 12, 31; Baltimore, 12, 31; Boettcherville, 6, 31; Boonsboro b, 31; Charlotte Hall, 1, 28, 31; Chase, 1, 31; Chestertown, 12, 31; Chewsville, 1, 31; Clear Spring a, 12, 31; Cherryfields, 1, 11, 28, 31; Coleman, 3, 31; Cumberland, 1, 6, 24, 31; Darlington, 31; Denton, 1, 28, 31; Easton, 1, 28, 31; Fallston, 1, 7, 12, 31; Frederick, 1, 12, 31; Frostburg, 6, 7, 12, 18, 26, 27, 31; Grantsville, 1, 6, 24, 27, 31; Great Falls, 1, 31; Green Spring Furnace, 1, 12, 31; Hagerstown, 31; Hancock, 1, 6, 11, 12; Jewell, 1, 28, 31; Laurel, 18, 31; Mardela Springs, 31; Maryland Agricultural College, 12, 31; Milford, Del., 31; Millsboro, Del., 1, 12, 28, 31; Mt. St. Mary's, 1, 12, 18, 31; Newark, Del., 1, 31; New Market, 1, 7, 12, 31; Ocean City, 1, 28, 31; Pocomoke City, 1, 28, 31; Port Deposit, 31; Princess Anne, 1, 28, 31; Queenstown, 28, 31; Rock Hall a, 1, 31; Rock Hall b, 1, 31; Sandy Point, 1, 28, 31; Seaford, Del., 28, 31; Sharpsburg, 1, 7, 12, 31; Smithsburg a, 6, 12, 31; Smithsburg b, 1, 7, 12, 18, 31; Solomons, 1, 12, 28, 31; St. Charles College, 1, 7, 12, 31; Sudlersville, 12, 31; Sunnyside, 3, 6, 7, 10, 14, 18, 25, 27, 29, 30, 31; Taneytown, 31; Washington, 1, 12, 28, 31; Western Md. College, 1, 7, 12, 18, 31; Westernport, 5, 30, 31; Woodstock, 31.

Hail.—Annapolis, 12; Boettcherville, 12; Chestertown, 12, 13; Hancock, 12; Milford, Del., 12; Millsboro, Del., 1, 6, 12; Mt. St. Mary's, 6, 13; Queenstown, 12; Rock Hall b, 1, 12; Solomons, 12; Sunnyside, 6.

Sleet.—Bachman's Valley, 6, 7; Baltimore, 13; Boettcherville, 13; Charlotte Hall, 12, 13; Chestertown, 12, 13; Chewsville, 13, 15; Clear Spring a, 6; Coleman, 13; Denton, 12, 13; Easton, 13; Fallston, 12, 31; Frostburg, 6, 12; Grantsville, 12; Green Spring Furnace, 6; Hancock, 13; Jewell, 12, 13; Laurel, 12; Millsboro, Del., 1, 13; New Market, 13; Queenstown, 12; Rock Hall a, 12, 13; Rock Hall b, 13; Sharpsburg, 5, 13; Smithsburg b, 6; Solomons, 12, 13; St. Charles College, 7; Sunnyside, 6, 7, 12; Western Md. College, 13, 31; Woodstock, 6, 12.

Thunderstorms.—On the night of the 24th at Annapolis, Baltimore, Charlotte Hall, Chase, Chestertown, Cherryfields, Coleman, Easton, Fallston, Jewell, Laurel, Mardela Springs, Md. Agricultural College, Newark, Del., Pocomoke City, Port Deposit, Princess Anne, Queenstown, Rock Hall a, Rock Hall b, Seaford, Del., Solomons, Sudlersville, Washington, Van Bibber, Woodstock and Darlington.

Lightning, distant.—Charlotte Hall, on the 14th.

Sun dog.—Bachman's Valley, 1, 2; Rock Hall b, 23.

Halos, lunar.—Bachman's Valley, 20; Charlotte Hall, 27; Clear Spring a, 20, 28; Cumberland, 19, 20, 27; Hancock, 20; Jewell, 20; Laurel, 20, 27; Mt. St. Mary's, 15, 20; Rock Hall b, 20, 27; Smithsburg b, 20; Solomons, 20; St. Charles College, 20; Western Md. College, 3, 15, 20.

Corona, lunar.—Millsboro, Del., 15; Smithsburg b, 15, 27; Western Md. College, 22.

Halos, solar.—Green Spring Furnace, 10, 20.

Fog.—Cherryfields, 5; Easton, 14, 17; Jewell, 13, 14, 17; Millsboro, Del., 13; Mt. St. Mary's, 13, 14; Princess Anne, 16, 23, 30; Queenstown, 5, 12, 13, 14, 15, 16; Rock Hall a, 14, 17; Solomons, 13, 14; St. Charles College, 13; Western Md. College, 24.

Climatological data for Maryland and Delaware, January, 1899.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.			Observers.	
				Mean.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmeted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	
WESTERN MARYLAND.																		
Boettcherville.....	Allegany.....	780	9	30.5	+3.0	60	5	-14	2	37	1.31	-1.12	0.60	5.0	4	.....	.....
Boonsboro 1.....	Washington.....	600	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boonsboro 2.....	Washington.....	800	1	31.5	.....	57	5	-2	2	31	2.72	.....	1.30	2.0	6	14	6	E
Chewsville.....	Washington.....	530	1	31.9	.....	56	4	.....	2	33	2.00	.....	0.64	2.0	8	15	8	N
Clear Spring 1.....	Washington.....	500	1	28.0	.....	55	16	-2	2	48	1.42	.....	0.50	2.2	8	18	6	5
Clear Spring 2.....	Washington.....	650	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cumberland.....	Allegany.....	722	40	34.5	+0.4	67	24	-7	3	46	2.60	+0.37	1.00	11.0	9	14	2	NW
Deer Park.....	Garrett.....	2,457	8	27.0	+1.8	59	4	-23	2	56	2.33	-0.51	1.60	.....	6	.....	.....	.....
Frostburg.....	Allegany.....	2,200	4	30.8	.....	61	4	-2	2	37	4.53	.....	1.35	7.2	15	16	0	W
Grantsville.....	Garrett.....	2,400	6	25.8	+2.7	61	4	-10	2	45	1.90	-1.83	0.50	13.0	8	3	20	W
Green Spring Furnace.....	Washington.....	450	7	30.2	+2.1	58	5	-9	2	39	3.31	-0.20	0.89	6.7	11	20	2	E&W
Hagerstown.....	Washington.....	552	8	30.8	-0.5	55	5	-8	2	39	1.71	-1.28	0.60	2.5	18	3	10	W
Hancock.....	Washington.....	455	1	29.8	.....	58	14	-7	2	41	2.84	.....	1.15	7	13	4	14	NW
Sharpsburg.....	Washington.....	420	5	31.1	+2.9	55	14	-8	2	35	3.40	+0.67	0.82	8.0	10	15	6	10
Smithsburg 1.....	Washington.....	750	2	30.4	.....	57	5	-11	2	34	2.70	.....	1.09	3.5	10	17	3	II
Smithsburg 2.....	Washington.....	900	1	31.1	.....	58	5	-2	2	33	3.54	.....	1.12	9.8	10	17	1	S
Sunnyside.....	Garrett.....	2,440	7	26.4	+3.4	56	23	-24	2	52	6.59	+3.27	1.59	12.2	20	8	6	17
Westernport.....	Allegany.....	1,000	5	29.1	+2.8	56	14	-3	2	38	1.80	-0.32	0.40	3.0	10	.....	.....	NW
Average.....	.....	.....	30.0	+2.1	.....	.....	.....	.....	2.79	-0.11	.....	6.0	9	15	4	12	W	
NORTHERN-CENTRAL MD.																		
Bachman's Valley.....	Carroll.....	860	6	28.4	+0.3	55	5	-11	2	31	4.32	+2.06	1.50	7.5	8	17	2	NW
Baltimore.....	Baltimore.....	123	65	33.6	0	59	5	6	2	27	3.50	+0.36	0.75	5.3	14	5	11	SW
Baltimore, J. H. Hospital.....	Baltimore.....	112	5	31.2	0	59	5	6	2	42	4.17	.....	1.24	4.9	11	6	14	N
Chase.....	Baltimore.....	25	1	30.2	.....	54	15	-10	2	39	3.41	.....	0.95	4.0	9	15	4	NW
Darlington Academy.....	Harford.....	300	10	30.6	+1.6	53	5	0	2	27	3.32	+0.32	1.36	3.0	8	18	10	3
Fallston School.....	Harford.....	450	31	30.8	+0.5	55	5	0	2	23	2.97	+0.16	0.94	3.2	12	7	16	S
Frederick.....	Frederick.....	275	27	31.4	-0.3	56	5	-7	2	37	2.72	+0.04	0.82	6.5	9	14	5	12
Great Falls.....	Montgomery.....	200	11	32.7	+2.1	58	5	-3	2	29	3.81	+1.28	1.00	.....	10	13	0	18
Mt. St. Mary's College.....	Frederick.....	720	39	30.0	+0.1	53	5	-14	2	51	2.45	-0.07	0.80	12.2	10	11	12	SW
New Market.....	Frederick.....	550	16	30.6	+0.4	55	5	-2	2	30	3.37	+0.91	0.83	7.5	9	12	9	NW
St. Charles College.....	Howard.....	500	5	30.8	-1.6	56	22	-8	2	33	4.74	+2.13	1.32	5.5	11	12	6	13
Taneytown.....	Carroll.....	490	7	30.8	+2.8	55	4	-9	2	35	3.98	.....	1.20	2.0	8	12	2	8
Van Bibber.....	Harford.....	22	4	29.4	-0.8	53	5	-1	2	24	3.50	+1.44	1.20	.....	10	16	3	10
Western Maryland Coll.	Carroll.....	720	5	31.5	+1.6	56	5	.....	2	39	3.32	+0.56	1.35	9.0	11	12	2	17
Woodstock College.....	Baltimore.....	392	30	31.2	-0.3	58	5	-6	2	42	2.54	+0.14	1.14	1.8	10	16	5	10
Average.....	.....	.....	30.9	+0.5	.....	.....	.....	.....	3.34	+0.78	.....	4.8	10	14	6	11	NW	
SOUTHERN MARYLAND.																		
Annapolis.....	Anne Arundel.....	45	26	34.8	+0.8	57	5	8	2	32	3.83	+1.61	0.89	8.5	14	12	9	10
Charlottesville School.....	St. Mary's.....	167	6	31.2	+0.4	60	22	-1	2	36	4.15	+1.47	1.16	6.0	11	14	11	NE
Cherryfields *.....	St. Mary's.....	7	6	31.8	0	59	5	0	2	36	2.96	+0.91	0.55	8.5	11	14	6	NW
Distributing Reservoir†.....	Dist. of Columbia.....	120	9	33.3	+2.2	52	4	0	2	34	3.41	+0.95	0.90	.....	11	11	6	NB
Jewell.....	Anne Arundel.....	165	12	32.2	-1.8	66	22	1	2	36	3.02	+0.02	1.10	5.0	6	14	2	7
Laurel.....	Prince George's.....	150	5	32.3	0	56	17	-4	2	31	3.13	+0.46	0.95	5.0	7	12	12	SW
Md. Agricultural College.....	Prince George's.....	170	8	35.3	0	57	22	0	2	34	3.57	+1.17	1.10	2.5	7	17	3	11
Receiving Reservoir†.....	Dist. of Columbia.....	160	9	32.8	+1.7	54	22	0	2	35	3.57	+0.77	0.97	.....	10	12	6	13
Solomon's.....	Calvert.....	20	8	35.3	+1.7	57	4	11	2	23	3.41	+0.86	0.62	7.8	13	8	6	17
Washington.....	Dist. of Columbia.....	112	29	33.6	+1.0	60	5	-1	2	31	4.12	+0.72	1.07	.....	14	15	3	13
Average.....	.....	.....	32.9	+0.8	.....	.....	.....	.....	3.52	+0.89	.....	5.4	10	14	6	10	NE, S	
EASTERN MARYLAND.																		
Berlin.....	Worcester.....	80	15	34.8	-0.5	56	4	5	2	30	3.66	+0.88	1.60	3.5	7	17	4	10
Chestertown.....	Kent.....	80	1	32.6	0	54	5	4	2	32	4.21	.....	1.78	5.0	19	3	9	SW
Coleman.....	Caroline.....	42	10	32.8	+2.3	64	24	1	2	33	4.62	+2.23	1.62	6.0	8	22	9	SW
Denton.....	Mardela Springs.....	35	10	33.0	+0.4	59	24	6	2	34	3.53	+0.87	0.77	4.0	12	14	8	SW
Easton.....	Wicomico.....	25	12	30.2	+0.7	63	6	10	1	31	2.70	+0.10	0.86	.....	8	3	13	9
Ocean City.....	Worcester.....	10	1	37.4	0	70	15	10	2	30	3.27	.....	0.65	10.0	9	9	5	16
Pocomoke City.....	Worcester.....	37	6	39.3	+1.7	69	5	8	2	35	2.48	+0.60	0.90	5.2	9	11	11	SW
Port Deposit.....	Cecil.....	25	21	31.6	0	55	5	2	2	26	3.28	.....	1.18	2.0	5	15	3	13
Princess Anne.....	Somerset.....	20	25	36.0	-1.6	63	6	1	29	27	2.73	+0.52	0.42	6.8	12	7	15	9
Queenstown.....	Queen Anne.....	20	1	32.8	0	57	24	2	1	27	3.58	.....	1.00	6.2	11	15	5	11
Rock Hall 1.....	Kent.....	20	1	31.8	0	54	22	0	2	25	3.77	.....	1.20	4.0	12	15	6	10
Rock Hall 2.....	Fent.....	25	1	33.0	0	54	5	1	2	26	3.77	.....	1.24	4.5	11	16	3	11
Sandy Point.....	Worcester.....	12	1	.....	.....	.....	.....	.....	2	27	2.79	.....	0.80	4.5	9	17	0	S
Suddlersville.....	Queen Anne.....	1	1	35.3	0	65	18	5	2	33	3.30	.....	1.63	1.0	7	17	0	13
Average.....	.....	.....	34.3	+0.5	.....	.....	.....	.....	3.40	+0.87	.....	4.8	9	12	7	11	SW	
DELAWARE.	Kent.....	20	20	39.2	+3.5	65	30	6	2	30	3.81	+1.27	1.36	.....	12	18	2	11
Millsboro.....	Sussex.....	23	7	35.4	+3.3	63	14	7	2	45	3.00	+0.10	1.04	10	17	3	11	SW
Newark (Delaware Coll.).....	Newcastle.....	136	6	39.2	+1.2	54	5	-1	2	31	3.89	+1.69	0.88	9.5	11	15	4	12
Seaford.....	Sussex.....	40	9	36.0	+3.2	63	6	4	2	30	3.17	+0.24	0.57	6.0	10	18	2	11
Average.....	.....	.....	35.2	+2.8	.....	.....	.....	.....	3.47	+0.68	.....	7.8	11	17	3	11	SW	
General average.....	.....	.....	32.9	+1.3	.....	.....	.....	.....	3.30	+0.62	.....	5.6	10	14	5	11	SW	

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.

* Mean of 8 a.m. + 8 p.m. ± 2.

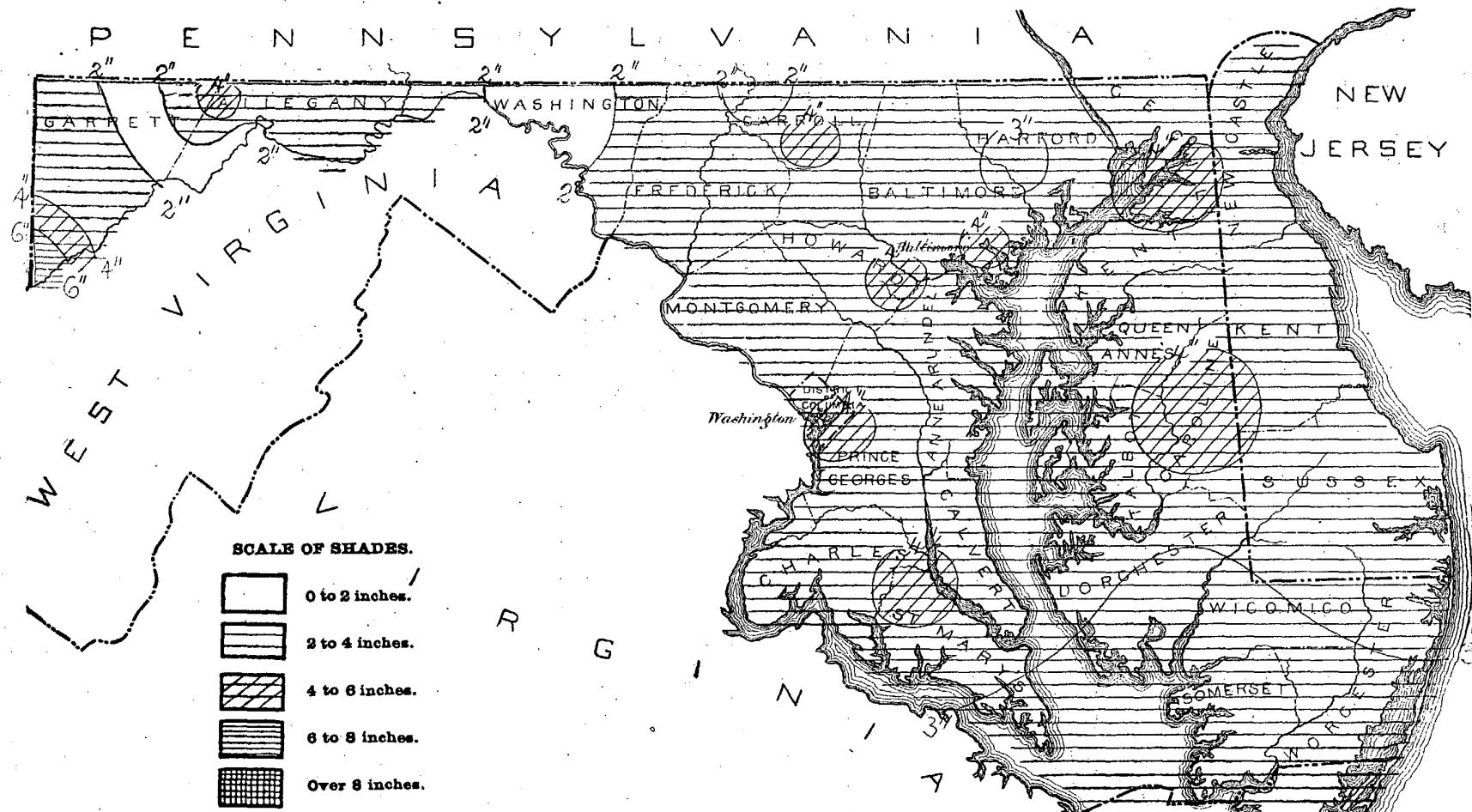
+ Mean of 7 a.m. + 2 p.m. ± 2.

CLIMATE AND CROPS: MARYLAND AND DELAWARE SECTION

JANUARY, 1899

Maximum and minimum temperatures for Maryland and Delaware, January, 1899.

TOTAL PRECIPITATION, JANUARY, 1899.



Daily precipitation for Maryland and Delaware, January, 1899.

Stations.	Day of month.																																		
	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.			
WESTERN MARYLAND.																																			
Boettcherille						.60																											.10	1.31	
Boonsboro 1																																		.30	
Boonsboro 2																																		.20	2.72
Chewsville																																		.20	2.00
Clear Spring 1																																		.08	1.42
Clear Spring 2																																		.10	
Cumberland																																		.16	
Deer Park																																		.12	2.60
Frostburg																																		.20	2.33
Grantsville																																		.19	4.53
Green Spring Furnace																																		.20	1.90
Hagerstown																																		.30	3.31
Hancock																																		.25	1.71
Sharpsburg																																		.32	
Smithsburg 1																																		.10	2.70
Smithsburg 2																																		.07	3.54
Sunnyside																																		.08	6.59
Westernport																																		.10	1.80
NORTHERN-CENTRAL MARYLAND.																																			
Bachman's Valley																																		.15	4.32
Baltimore																																		.28	3.50
Baltimore, Johns Hopkins Hospital																																		.30	1.71
Chase																																		.10	3.42
Darlington Academy																																		.09	
Fallston School																																		.12	2.97
Frederick																																		.11	2.72
Great Falls																																		.02	3.81
Mt. St. Mary's College																																		.30	2.45
New Market																																		.28	3.37
St. Charles College																																		.17	4.74
Taneytown*																																		.13	
Van Bibber																																		.32	3.50
Western Maryland College																																		.20	3.32
Woodstock College																																		.11	2.54
SOUTHERN MARYLAND.																																			
Annapolis																																		.80	2.21
Charlotte Hall School																																		.17	3.82
Cherryfields																																		.30	4.15
Distributing Reservoir, D.C.																																		.24	2.96
Jewell																																		.02	3.41
Laurel																																		.10	3.02
Maryland Agricultural College																																		??	3.13
Receiving Reservoir, D.C.																																		.10	
Solomon's																																		.29	3.57
Washington, D.C.																																		.35	3.41
Berlin																																		.45	4.12
Chestertown																																		.30	3.66
Coleman																																		.13	4.21
Denton																																		.25	4.62
Easton																																		.20	3.53
Mardela Springs																																		.27	2.70
Ocean City																																		.30	3.27
Pocomoke City																																		.05	2.48
Port Deposit																																		.29	
Princess Anne																																		.42	2.51
Queenstown																																		.48	3.58
Rock Hall 1																																		.23	3.21
Rock Hall 2																																		.20	3.24
Sandy Point																																		.08	3.77
Sudlersville																																		.65	
DELAWARE.																																			
Milford																																		.32	3.81
Millsboro																																		.08	
Newark (Delaware College)																																		.20	3.00
Seaford																																		.31	3.89
																																		.43	3.17

[†] Trace, when precipitation is less than 0.01 inch.

* No observation at Taneytown from the 20th to 28th inclusive.