

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JULY, 1898.

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

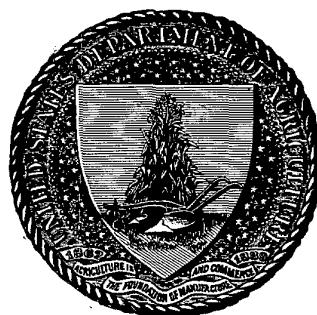
IN COOPERATION WITH THE
MARYLAND STATE WEATHER SERVICE.

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

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

BY

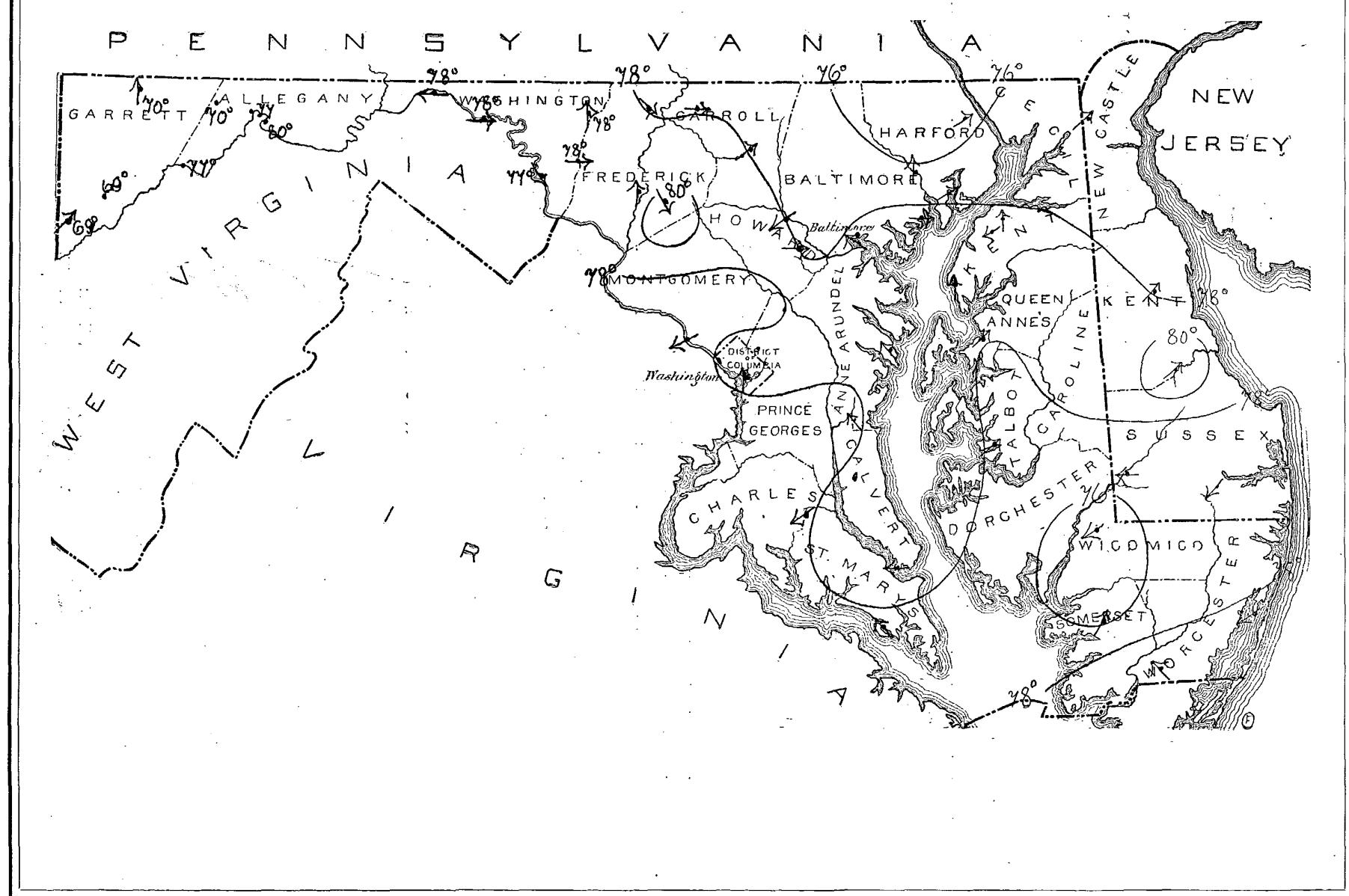
F. J. WALZ,
SECTION DIRECTOR.



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

1898.

MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS, JULY, 1898.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE
OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

BALTIMORE, MD.

VOL. III.

BALTIMORE, MD.

No. 7.

AGRICULTURAL COLLEGES AND THE FARMER.

[From address of Secretary Wilson, of the Department of Agriculture, at College Park, Md., last June.]

The State of Maryland can well afford to sustain a college for the farmer's boy, for the sole purpose of keeping her soil in fertile condition. She can afford to maintain a college for the purpose of enabling the sons of toil to increase their earning capacity. The uneducated man earns on the farm from \$10 to \$20 a month; the educated man easily earns from \$50 to \$100. An improved pasture requires several acres. The native horse, without blood or development, in some of our Northwestern States, is valued at \$10 a head; a well-bred, well-developed horse is worth from \$100 to \$1,000. The native cow in some of our newer States yields \$7.50 worth of products in a year; the improved cow in the hands of a skilled dairyman yields \$75 worth of products in the same time. Corn in Iowa, some years, is worth 10 cents a bushel where it is the one crop of the farm; but the skilled feeder makes it worth 40 cents a bushel. The native pineapple weighs from three to four pounds, and sells from 10 to 20 cents apiece; the scientist hybridizes the same pineapple and makes it weigh from eight to twelve pounds, and sells it for 75 cents to \$1 apiece. The uneducated laborer produces cotton as his sole crop and sells it for 5 cents a pound; the educated laborer diversifies his industry and puts high-selling products on the market. The young man's labor when he comes to college is worth no more than that of the uneducated farm hand; but if he studies the sciences related to some one industry his labor is in demand everywhere. His earning capacity was equal to one laborer when he entered; it is equal to half a dozen when he graduates.

THE DEPARTMENT OF AGRICULTURE.

The good work done by college and experiment station is being recognized by all classes of society in our own land and by educated men abroad. The Department of Agriculture is a clearing-house for the colleges and stations of the several States with regard to their work. It cooperates with them, sympathizes with them, supplements their work, gives publicity to progressive work, yet avoids all appearance of dictation or meddling. The Department at Washington does work which is beyond the financial ability of State institutions, very often, however, through the scientists of the State institutions; many of whom, in their specialties, are not excelled in the wide world.

It is the aim of the Department to encourage work that bears directly upon the requirements of the farmers of the

country, to help in the solution of problems that the former cannot grapple with, for want of time, training, and apparatus; and with regard to education in the colleges, to insist, mildly, that it shall be along lines having regard to science as the major study, rather than to belles lettres.

Our agricultural colleges are endeavoring to induce young farmers to avail themselves of the facilities offered to study the sciences relating to their work. Many of them are succeeding as well as could have been expected, when we consider the influences that surround the farm boy and girl.

A POST-GRADUATE COURSE.

The graduates of the agricultural colleges of the several States, who have laid the foundations of a scientific education, should be invited by Congress to go to Washington to pursue their studies in special lines and get facilities and direction from the chiefs of divisions, without expense to the students. They could have access to the departmental and congressional libraries, to the museums of the departments and of the Smithsonian Institution, which contains departmental material. The university that George Washington had in mind is in existence now in the Capital City. It lacks only the students. I shall, in my next annual report to the President and Congress, ask that this authority be given to the Secretary of Agriculture. No additional appropriations would be necessary until large numbers required a lecture room, which Congress would promptly provide. I have strong faith in our great-hearted President and our far-seeing legislators that they will favor the farm boys and girls in this regard.

* * *

REVIEW OF THE CROP CONDITIONS.

The month opened very dry and intensely hot, temperatures of 100° or more being registered on several days over nearly all parts of the two States. In Allegany County the maximum of 108° was recorded. After the 4th when much needed showers were general, it was much cooler for a week or ten days, but the drought continued in southern Maryland, and light scattered showers that fell in other sections, while refreshing, were insufficient. The dry weather continued until the 19th, when general rains and heavy thundershowers occurred over all districts, except portions of Washington and Frederick counties. The drought in the southern counties was exceedingly severe and damaging, having been almost continuous since the middle of May, and had begun to assume a serious stage in the north-central counties, when relieved by the generous showers of the 19th. The last two weeks of the month were characterized by warm and sultry weather, with frequent and often heavy thunderstorms.

Harvesting of wheat had been very nearly completed by the first of the month, and threshing was nearly finished by the 18th. The yield averaged about twelve to fifteen bushels per acre, and ranged from three or four bushels per acre in some of the southern counties to probably twenty-five bushels in some of the northern counties. Corn made very little advance during the first half of the month on account of the drought, but held up quite well under the circumstances, and

was greatly improved by the rains in the latter part of the month, and by the time the month was over was in silk and tassel, and was reported as having generally a very good stand. The early varieties of potatoes were cut short by the drought, but the latter varieties promise much better. Owing to the drought and the scarcity of plants, not more than half the crop of tobacco was planted, and the partial crop planted did not show much growth until the latter part of the month, when it was revived by rains. Gardens and pastures were rapidly drying up, until relieved by the heavy showers of the 19th and following days. The tomato crop was late in being planted and obtaining a stand, but as the month closed the promise was good for a fair crop. The peach and apple orchards in many cases were almost failures, and the crops of these fruits were very poor. Pears, however, were plentiful, and grapes promising.

As the month closed, oats were being harvested, the crop proving poor generally, not averaging over twelve to eighteen bushels per acre, although fair in some of the western counties. Corn was making rapid growth, and fall plowing and fallowing for wheat had commenced in some localities. Sweet potatoes, melons, and buckwheat all doing finely and giving promise of large crops.

* * *

CLIMATOLOGY OF THE MONTH.

ATMOSPHERIC PRESSURE—IN INCHES AND HUNDREDTHS.

Monthly mean at Washington, D. C., 30.05; at Baltimore, 30.04; average, 30.04; highest, 30.33 at Baltimore, on the 12th; lowest, 29.73 at Baltimore, on the 9th.

TEMPERATURE—IN DEGREES FAHRENHEIT.

The monthly mean (entire territory), 77.5, is 2.1 above the normal.

The highest monthly mean was 80.4, at Cumberland.

The lowest monthly mean was 69.0, at Deer Park and Sunnyside.

The highest temperature recorded during the month was 109, at Boettcherville, on the 3d.

The lowest temperature recorded during the month was 32, at Deer Park, on the 11th.

The greatest local monthly range was 69, at Boettcherville.

The least local monthly range was 37, at Annapolis and Solomons.

The greatest daily range was 47, at Boettcherville, on the 3d.

The least daily range was 1, at Solomons, on the 6th.

PRECIPITATION—IN INCHES AND HUNDREDTHS.

The monthly average (entire territory) 3.65, was 0.80 below the normal.

The greatest amount was 7.77 at Grantsville.

The least amount was 1.31, at Cumberland.

The greatest amount in twenty-four hours was 4.00, at Grantsville, on the 17th.

The average number of rainy days, 9.

WIND.

The prevailing direction was from the southwest.

The total movement was 3,765 miles, at Baltimore, and 3,950 miles, at Washington, D. C.

The maximum wind velocity was 32 miles per hour from the northwest, at Washington, D. C., on the 19th.

MISCELLANEOUS.

The following are dates on which various miscellaneous phenomena occurred:

Thunderstorms.—Annapolis, 19; Bachman's Valley, 4, 19, 20, 31; Baltimore, 4, 19, 21, 27, 28, 31; Boonsboro, 4, 8, 14, 15, 18, 19, 20, 21, 26, 27, 28, 31; Charlotte Hall, 4, 17, 19, 21, 22, 27; Chase, 4, 19, 20, 21, 27; Cherryfields, 4, 9, 21, 26, 27; Chestertown, 4, 19, 20, 27; Chewsville, 4; Coleman, 4, 19, 21, 22, 26, 27, 28; Cumberland, 4, 16, 17, 29, 31; Fallston, 4, 19, 20, 21, 26, 27, 28, 31; Frederick, 4, 8, 17, 19, 31; Frostburg, 31; Grantsville, 3, 4, 16, 17, 18, 19, 22, 23, 25 to 31; Green Spring Furnace, 4; Jewell, 4, 19, 27, 28, 30; Kensington, 18, 27; Laurel, 4, 18, 19, 27; Mardela Springs, 9, 16, 17, 18, 21, 22, 27, 28, 30, 31; Millsboro, Del., 4, 19, 26, 27, 30, 31; Mt. St. Mary's College, 4, 20, 22; Newark, Del., 4, 19, 20, 27; New Market, 4, 8, 19, 20, 27; Pocomoke City, 21, 27; Princess Anne, 4, 19; Rock Hall, 4, 19, 20, 21, 28; Seaford, Del., 19, 21, 26; Sharpsburg, 4, 31; Smithsburg, 4, 19, 20; Solomons, 4, 16, 19, 21, 27, 28, 30, 31; Sunnyside, 3, 4, 9, 16, 17, 18, 19, 25, 29, 31; Taneytown, 4, 8, 19, 20, 31; Washington, D. C., 4, 17, 19, 21, 26, 27, 28, 30; Woodstock, 4, 19, 20, 23, 27, 28, 29.

Halos, solar.—Jewell, 11, 17; Solomons, 28.

Sun dog.—Jewell, 25, 26.

Fog.—Mardela Springs, 27, 28; Green Spring Furnace, 8; Millsboro, Del., 19, 22; Princess Anne, 1, 19, 24; Sunnyside, 1, 17, 25.

Frost, light.—Deer Park, 11; Grantsville, 11; Sunnyside, 11.

High winds.—Annapolis, 4; Sunnyside, 14, 25; Taneytown, 4; Van Bibber, 20, 21.

Hail.—Clear Spring, 4; Solomons, 4; Taneytown, 4.

Aurora.—Millsboro, Del., 10.

* * *

The meteorological records for Hagerstown, Md., are, unfortunately, missing for June and July just past, owing to the absence of the regular voluntary observer, Prof. C. E. Carl. Temperature and rainfall reports are especially valuable in these months, being the height of the growing season, and any break in their continuity is to be deplored. Efforts have been made to provide for regular observations at Hagerstown during the summer months, but thus far without success. Professor Carl will turn over the instruments to anyone in the town who will be willing to take the thermometer readings and rain-gauge measurements, and render reliable reports to this office.

* * *

The death of Mr. H. L. Wallace, voluntary observer at Seaford, Del., is announced with deep regret. Mr. Wallace had been an invalid for several years, much of which time was spent in search of health, but without avail, and his death on July 31st occurred at Denver, Colo. His valued services as voluntary observer will be continued by his brother, Mr. W. T. Wallace, who has personally attended to this work much of the time during the last two years.

Climatological data for Maryland and Delaware, July, 1898.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.			Precipitation, in inches.			Sky.	Prevailing direction of wind.	Observers.
				Mean.	Highest.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	
WESTERN MARYLAND.												
Boettcher'sville	Allegany	700	8	76.8	+3.7	109	3	40	II	-1.25	0.60	7
Boonsboro	Washington	650	78.1			103	2	46	II	3.66	1.20	9
Boonsboro 2	Washington	900	78.2			104	3	50	II	2.49	0.80	12
Cheswells	Washington	550	77.0			103	2	47	II	1.81	0.86	8
Clear Spring	Washington	500	78.5			107	3	48	II	3.19	1.45	9
Clear Spring 2	Washington	650	77.6			105	4	50	II	3.35	2.42	10
Cumberland	Garrett	722	39	80.4	+4.7	103	3	55	II	3.21	1.67	11
Deer Park	Garrett	2,457	69.0	+3.2		94	3	32	II	3.76	-4.00	9
Frostburg	Garrett	2,100	3	79.4		59	2	41	II	4.24	1.58	12
Grantsville	Garrett	800	69.8	+1.7		94	3	37	II	3.77	+0.77	14
Green Spring Furnace	Washington	500	78.7	+3.0	104	3	47	II	3.42	-0.49	1.12	10
Hagerstown	Washington	550	7								18	12
Hancock	Washington	455	77.8			103	3	46	II	3.7	2.15	8
Sharpsburg	Washington	450	77.2	+3.6		102	3	48	II	3.21	+0.70	10
Smithsburg	Washington	750	1	77.4	+2.6	103	3	49	II	3.56	0.93	8
Smithsburg 2	Washington	900	78.1			103	3	53	II	2.29	0.80	9
Sunnyside	Garrett	2,440	6	69.0	+1.9	93	3	33	II	5.56	-0.74	1.19
Westernport	Allegany	1,000	4	77.0	+3.3	107	3	42	II	4.54	+0.34	1.38
Average				75.9	+3.1					3.40	-0.80	10
NORTHERN-CENTRAL MD.												
Bachman's Valley	Carroll	860	5	76.8	+2.9	103	3	46	II	34	4.62	+0.80
Baltimore	Baltimore	123	64	78.8	+1.0	104	3	57	II	28	3.51	-1.29
Baltimore, J. H. Hospital	Baltimore	124	74.8	+2.9		104	3	55	II	31	2.61	0.90
Darlington Academy	Harford	20		79.4		98	3	55	II	42	3.70	1.38
Fallston School	Harford	300	9	76.4	+1.8	98	3	53	II	28	6.27	+2.27
Frederick	Frederick	450	30	75.5	+1.4	95	3	52	II	23	3.33	-1.15
Great Falls	Montgomery	250	79.4	+3.6	104	2	52	II	31	6.64	-1.91	
Kensington	Montgomery	150	10	77.2	+5.2	100	3	48	II	33	2.48	-0.69
Mt. St. Mary's College	Frederick	545	23	78.4		102	3	50	II	35	2.42	1.22
New Market	Frederick	720	38	77.6	+2.4	102	3	55	II	32	3.17	-1.04
St. Charles College	Howard	550	15	79.7	+2.7	105	3	53	II	32	2.41	-1.87
Taneytown	Carroll	500	4	77.1	+4.3	101	3	51	II	28	3.73	-0.41
Van Bibber	Harford	495	6	77.9	+0.7	103	3	48	II	32	6.30	+2.09
Western Maryland Coll.	Carroll	20	3	77.2	+0.7	97	3	53	II	29	3.37	-0.90
Woodstock College	Baltimore	720	4	78.1	+3.7	102	2	51	II	38	3.15	-0.79
Average		392	29	78.1	+3.7					3.51	-0.54	9
SOUTHERN MARYLAND.				77.9	+2.3							5 SE
Annapolis	Anne Arundel	20	25	78.6	+0.1	95	2	58	II	27	3.17	-2.11
Charlotta Hall School	St. Mary's	167	5	78.1	+2.1	102	3	49	II	38	4.27	+0.39
Cherryfields 2	St. Mary's	20		77.5	+0.9					7.64	+2.00	2.65
Distributing Reservoir 3	Dist. of Columbia	120	80	79.0	+2.7	98	3	53	II	29	3.57	-1.61
Jewell	Anne Arundel	165	11	76.7	+0.9	99	2	53	II	35	3.23	-1.97
Laurel	Prince George's	150	4	78.1	+3.8	104	2	52	II	36	1.72	-4.11
Md. Agricultural College	Prince George's	170	9	79.1	+5.7	105	2	48	II	31	2.11	-1.30
Receiving Reservoir 3	Dist. of Columbia	160	8	77.9	+0.6	97	3	62	II	27	4.49	-1.30
Solomon's	Calvert	20	7	79.0	+1.0	99	2	54	II	27	4.59	+0.61
Washington	Dist. of Columbia	112	28	78.8	+2.0	101	2	54	II	28	2.84	-1.70
Average				78.3	+2.0					3.48	-1.24	8 13 12 6 SE
EASTERN MARYLAND.												
Betterton	Kent	80	25	79.1		101	3	58	II	25	3.37	-1.63
Chestertown	Kent	80	14	77.6	+1.8	97	2	54	II	26	3.05	-1.63
Coleman	Kent	80		78.6		102	2	55	II	32	5.15	-2.52
Denton	Caroline	42	9	78.6	+3.0	102	2	56	II	28	5.75	+2.47
Easton	Talbot	35	9	78.4	+2.4	101	2	54	II	31	2.26	-2.25
Mardela Springs	Wicomico	25	11	75.6	+0.7	98	2	52	II	24	3.91	-1.46
Pocomoke City	Worcester	37	5	79.4	+1.4	101	2	59	II	26	4.74	+0.32
Port Deposit	Cecil	1										
Princess Anne	Somerset	20	24	76.4	-0.9	95	2	54	II	26	2.12	-3.89
Queenstown	Queen Anne	10		77.6		99	2	51	II	36	1.88	1.18
Rock Hall 1	Kent	40		78.6		100	2	49	II	27	4.04	1.01
Rock Hall 2	Kent	20		77.5		99	2	49	II	30	3.43	1.00
Sandy Point	Worcester	12		77.6		97	2	59	II	22	4.74	1.50
Average				77.9	+1.4					3.75	-1.07	8 13 12 5 S.SW
DELAWARE.												
Dover	Kent	40	22	76.8	+0.1	99	3	55	II	28	2.92	-0.78
Milford	Kent	20	19	80.0	+3.8	99	3	60	II	25	3.56	-0.55
Millsboro	Sussex	23	6	76.9	+1.0	98	4	59	II	30	6.99	+1.99
Newark (Delaware Coll.)	Newcastle	130	5	76.6	+1.9	98	3	51	II	29	4.44	+0.32
Seaford	Sussex	40	8	77.2	+2.4	98	2	57	II	24	2.52	-2.72
Average				77.5	+1.8					4.09	-0.35	8 17 7 7 SW
General average				77.5	+2.1					3.65	-0.80	9 13 11 6 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.

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

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

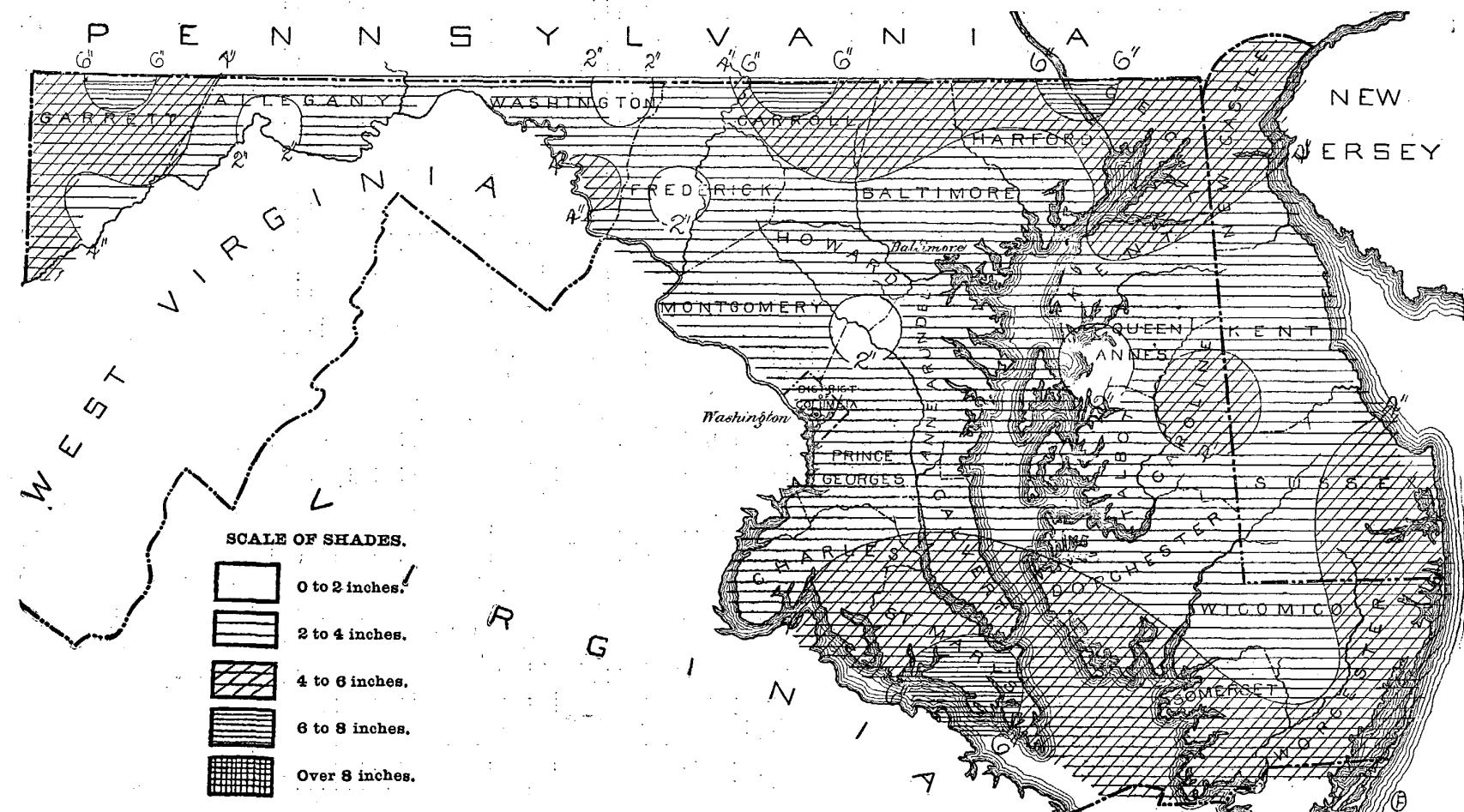
CLIMATE AND CROPS: MARYLAND AND DELAWARE SECTION.

JULY, 1898.

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

Stations.																										Monthly mean.								
	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.			
	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.	
Annapolis.....	92.65	95.70	88.73	94.75	80.70	79.69	80.68	88.64	88.64	80.58	80.65	92.55	83.67	75.55	75.46	78.72	83.58	80.65	92.78	90.70	88.70	88.73	80.72	92.85	92.73	86.4	86.4	70.9						
Bachman's Valley.....	98.64	101.67	103.72	98.71	82.65	78.63	85.65	91.64	92.66	92.66	80.62	82.62	91.64	83.70	82.72	80.62	89.69	90.68	89.69	92.72	87.72	88.73	95.68	95.71	92.68	88.2	65.5	88.2	65.5	86.4				
Baltimore.....	102.72	99.77	104.80	100.74	80.70	75.69	82.60	91.65	83.82	82.72	80.62	81.70	91.69	87.74	87.74	89.70	89.75	92.70	92.70	88.68	88.70	84.72	94.74	94.72	94.74	94.74	94.74	94.74	94.74	94.74	94.74			
Baltimore, J.H.Hp'l.....	100.69	98.68	104.75	104.74	77.10	77.77	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61	81.61			
Betterton.....	99.72	99.75	101.10	101.71	80.65	78.65	83.63	84.64	84.64	82.65	82.65	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67	84.67			
Boettcherherville.....	104.64	108.65	109.62	92.62	91.55	86.54	95.55	100.58	80.50	84.50	82.40	76.40	76.48	80.58	92.66	94.64	96.68	99.64	96.60	92.60	92.74	100.62	80.68	85.70	98.68	99.72	95.65	94.64	94.64	92.4	61.1			
Boonsboro 1.....	100.57	103.70	103.76	98.68	83.64	80.63	87.65	91.64	92.66	79.52	80.46	75.60	82.62	86.65	91.69	94.68	95.64	96.69	96.64	92.62	92.74	96.68	91.66	86.71	87.70	93.73	95.70	94.72	96.67	90.4	65.9			
Boonsboro 2.....	99.71	103.74	104.74	104.77	98.67	82.60	85.64	92.65	86.68	80.55	80.55	79.56	83.61	81.68	90.70	98.71	94.66	95.69	97.69	91.71	85.70	91.65	91.65	91.65	91.65	91.65	91.65	91.65	91.65	91.65	91.65			
Charlotte Hall.....	98.60	105.75	102.67	96.76	79.65	71.65	84.64	89.62	89.71	83.73	83.74	77.49	83.59	87.67	90.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73			
Chase	97.62	97.69	98.71	96.66	81.72	76.60	80.58	84.58	87.73	97.55	98.76	85.74	93.77	95.79	94.68	90.69	89.89	88.70	88.65	88.70	88.71	86.72	86.68	89.71	95.61	95.61	94.72	93.71	91.69	89.9	69.0			
Chestertown.....	95.69	97.75	95.80	97.75	79.63	73.66	82.64	85.65	85.65	87.72	77.63	75.54	75.54	80.60	84.68	87.69	89.70	91.60	89.73	89.72	91.60	89.70	89.70	89.71	89.71	89.71	89.71	89.71	89.71	89.71	89.71			
Chewsville.....	103.63	103.66	102.61	97.68	84.62	82.63	86.61	91.63	83.80	83.59	80.60	80.47	75.53	82.66	91.69	98.64	93.62	93.65	91.69	92.66	93.64	92.66	92.65	92.65	92.65	92.65	92.65	92.65	92.65	92.65	92.65			
Clear Spring 1.....	102.68	105.67	107.68	99.61	82.62	80.62	85.60	84.61	84.61	84.67	84.67	77.55	86.64	86.64	90.70	98.71	94.66	95.66	96.66	93.70	93.70	93.70	93.70	93.70	93.70	93.70	93.70	93.70	93.70					
Clear Spring 2.....	101.70	104.74	102.70	105.75	98.60	83.53	84.60	84.62	84.62	84.55	84.55	76.67	81.64	81.64	90.70	99.70	93.69	93.69	93.69	93.69	93.69	93.69	93.69	93.69	93.69	93.69	93.69	93.69	93.69	93.69	93.69	93.69		
Coleman.....	100.70	102.73	102.79	102.79	80.66	71.63	84.61	84.63	87.72	81.65	77.55	76.58	83.61	85.61	91.71	95.71	90.64	94.73	98.69	94.67	94.70	86.71	87.67	91.70	89.74	87.72	92.74	92.74	88.9	68.2				
Cumberland.....	98.72	101.73	103.71	94.72	88.66	86.64	91.60	96.67	87.60	80.61	79.55	79.56	87.64	84.60	90.73	94.79	90.71	92.72	92.72	92.72	92.72	92.72	92.72	92.72	92.72	92.72	92.72	92.72	92.72	92.72	92.72	92.72	92.72	92.72
Darlington.....	98.72	101.73	94.73	97.75	85.65	75.62	80.57	85.62	85.62	85.62	85.62	78.60	78.60	82.69	87.69	87.69	87.69	87.69	87.69	87.69	87.69	87.69	87.69	87.69	87.69	87.69	87.69	87.69	87.69	87.69	87.69			
Deer Park.....	90.53	93.56	94.54	83.60	78.50	72.52	85.52	87.47	79.55	71.40	79.55	71.40	79.55	86.67	81.63	84.67	85.59	86.59	86.59	86.59	86.59	86.59	86.59	86.59	86.59	86.59	86.59	86.59	86.59	86.59	86.59	86.59	86.59	
Denton.....	99.80	102.84	101.83	100.74	80.66	84.62	88.64	72.60	74.62	80.64	79.63	86.63	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64			
Dover, Del.....	96.68	92.73	99.76	97.73	77.63	75.62	81.62	84.64	74.55	72.59	78.62	85.65	89.72	86.68	85.65	89.72	86.68	85.65	89.72	87.73	87.73	87.73	87.73	87.73	87.73	87.73	87.73	87.73	87.73	87.73				
Easton.....	98.67	101.73	100.75	99.76	72.66	69.65	84.60	89.63	87.68	81.61	78.54	74.57	81.60	85.63	90.68	94.70	94.65	94.70	96.71	94.67	93.71	90.71	88.71	91.74	87.72	94.74	91.74	88.8	68.0					
Fallstown School.....	93.70	92.73	95.74	95.73	75.65	75.65	82.60	86.66	92.64	80.64	79.60	87.66	91.64	84.64	81.69	95.77	94.68	94.67	93.71	83.67	87.70	89.73	87.70	85.71	87.70	87.70	87.70	87.70	87.70	87.70	87.70	87.70	87.70	
Frederick.....	101.71	103.72	104.74	97.76	90.67	82.68	79.60	91.64	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	84.61	
Frostburg.....	87.74	89.74	88.69	86.45	75.42	72.50	78.54	88.58	78.63	73.63	72.54	78.63	72.54	78.63	84.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	86.64	
Grantsville.....	89.60	92.60	94.60	86.64	86.63	79.50	83.53	84.54	84.54	84.54	84.54	78.57	78.57	73.37	72.39	70.50	73.51	83.61	83.61	81.60	84.59	84.59	84.59	84.59	84.59	84.59	84.59	84.59	84.59	84.59	84.59			
Great Falls.....	94.63	97.69	100.72	100.77	95.66	82.63	79.59	88.60	91.66	87.62	81.48	77.52	81.61	83.65	84.60	95.67	95.67	95.67	95.67	93.67	93.67	93.67	88..	86..	91..	91..	93..	93..	93..	93..	93..	93..	93..	
Green Sp. Furnace.....	100.74	103.74	104.73	97.71	82.64	83.63	86.62	94.63	88.67	78.53	79.47	79.49	84.64	84.66	84.66	94.66	94.66	94.66	94.66	93.69	93.69	93.69	90.71	90.71	92.75	92.75	92.75	92.75	92.75	92.75	92.75	92.75	92.75	92.75
Hagerstown.....	98.66	101.68	103.66	94.79	79.70	80.65	90.58	90.61	88.67	83.57	80.46	78.57	82.65	88.66	91.71	96.67	94.65	95.65	96.65	93.66	93.66	93.66	83.73	83.73	87.73	87.73	87.73	87.73	87.73	87.73	87.73	87.73	87.73	87.73
Jewell.....	97.68	99.74	98.76	94.72	74.64	72.64	79.60	86.64	86.64	86.64	86.64	79.59	79.54	73.53	79.53	87.60	91.70	87.66	90.70	92.66	86.71	87.70	87.70	91.71	91.71	91.71	91.71	91.71	91.71	91.71	91.71	91.71	91.71	
Kensington.....	99.70	101.74	102.72	102.67	83.67	71.54	87.62	88.70	88.54	83.50	81.55	73.60	85.68	90.71	90.68	96.69	92.71	92.73	94.68	94.71	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73	91.73			
Kent Island.....	99.70	101.74	102.72	102.67	8																													

TOTAL PRECIPITATION, JULY, 1898.



JULY, 1898.

Daily precipitation for Maryland and Delaware, July, 1898.

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