

U. S. DEPARTMENT OF AGRICULTURE.

ANNUAL SUMMARY, 1900.

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

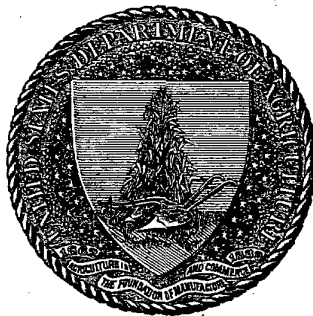
WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

OLIVER L. FASSIG,

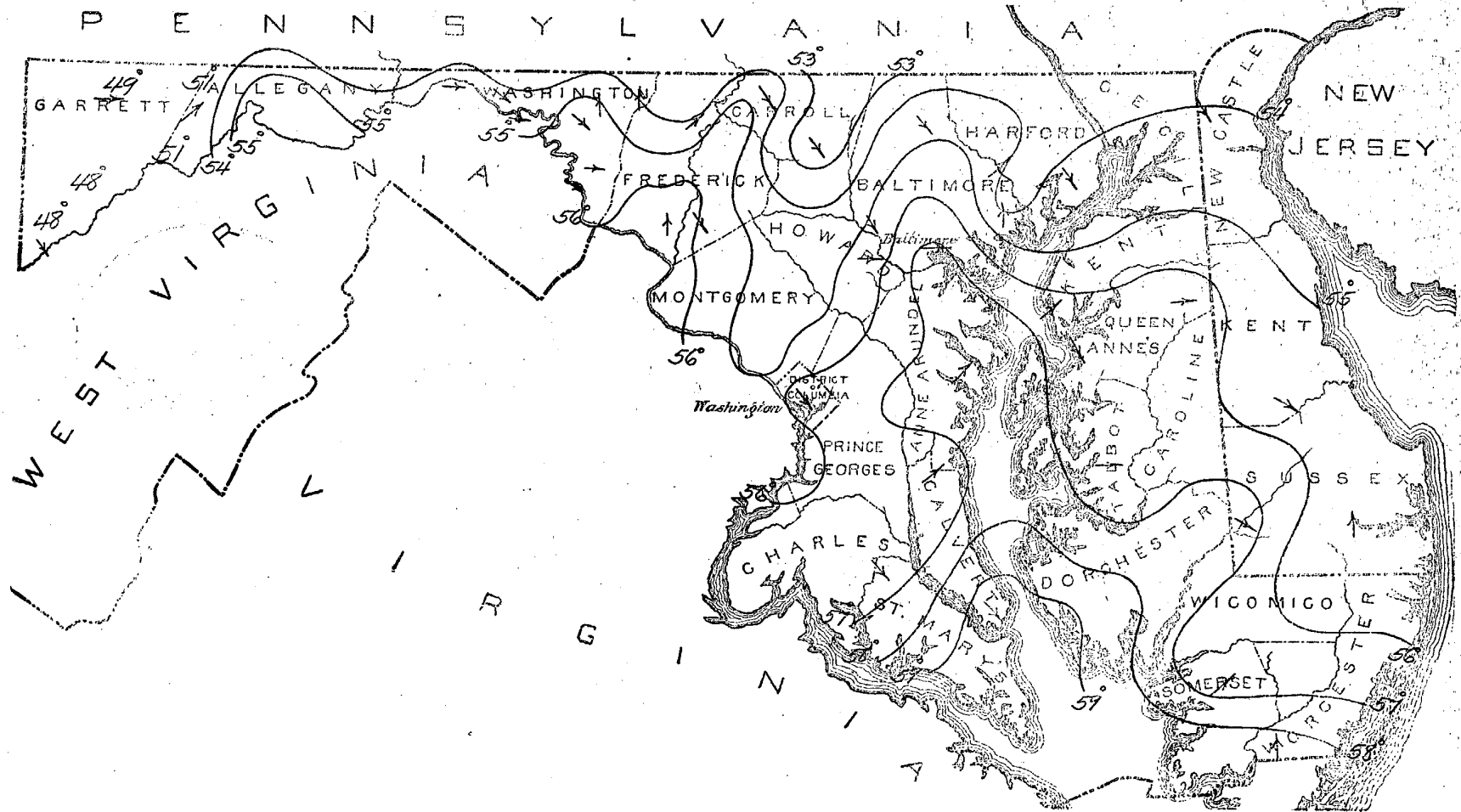
SECTION DIRECTOR.



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

1900.

ANNUAL MEAN ISOTHERMS AND PREVAILING WINDS, 1900.



U. S. DEPARTMENT OF AGRICULTURE,
CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

MARYLAND AND DELAWARE SECTION,**OLIVER L. FASSIG, Section Director.**

BALTIMORE, MD.

VOL. V. BALTIMORE, MD. Annual.

CLIMATOLOGY OF THE YEAR 1900.

The annual mean temperature for 1900 was 55.0° , or 1.3° above the normal. The annual mean range of temperature within the limits of the two States, 11.3° , was about as usual, and is disclosed through a comparison of the highest local annual mean of 59.1° at Solomons, with the lowest of 47.8° at Deer Park.

The distribution of mean temperature by months was not regular. The highest and lowest monthly mean temperatures occurred in August and February, respectively, or a month later than they should in the normal course of events. March was a cold month, and February, May and December were slightly cooler than usual, considering the Section as a whole, but during other months the temperature record passed above the normal figures.

There were six periods of cold weather during the year, during which the minimum temperatures in the mountains ranged from zero to 15° below, and in the more southern counties fell to at least 10° or 14° . Of these, the earliest continued from December of last year until January 4th. This was followed by a more prolonged spell that began on the 26th of January and prevailed until the 3d of the month following. The later periods were of brief duration, namely, from February 18th to 20th, February 25th to 27th, March 17th and 18th, and December 14th to 17th. Well-defined cold spells, but less severe, were those of March 12th and May 4th and 10th. The cold wave of March 17th-18th gave the lowest temperatures of the entire year at several stations in Washington and Allegany counties.

The final killing frosts of spring occurred at about the normal season over the greater part of the Section, having accompanied the freezing temperatures that prevailed from April 10th to 15th. On May 10th they again visited the mountain regions of Garrett and Washington counties, extended over northern Delaware and penetrated into Cecil, Harford and the upper portions of Baltimore and Kent counties. Light frosts, capable of harm to tender vegetation, occurred at this time in all except the extreme southern parts of the Section. Light frosts were again reported on May 21st and 22d in Garrett County and at several voluntary stations in the upper Plateau Region. At no station did the minimum temperature fall as low as the freezing point in either of the three summer months, but on July 1st a minimum tempera-

ture of 35° at Deer Park was accompanied by other conditions favorable for frost formation, and a light deposit was observed.

In the autumn, the first killing frosts occurred on September 19th in Garrett County and the extreme northern part of Carroll County, and lighter frosts overspread a much larger area. A slight encroachment of the frost line took place on October 10th in the western counties, while on the 17th to 20th a great part of the Section was visited, the only areas exempt being narrow tracts along either shore of the middle and lower bay. These latter areas were finally invaded by killing frosts on November 14th to 17th.

The heated terms of summer were severe and protracted. The first warm wave occurred on May 13th to 16th, when temperatures rose above 90° in all except the mountain districts. In June such high temperatures as occurred did not last long, but in July and August the heat was intense and continued without respite for days. The periods of unusually high temperatures were July 4th to 8th, July 15 to 21st, and August 6th to 19th. During this latter period the record of both day and night temperatures at Baltimore for the past thirty years was broken for intensity and duration. A full history of these hot spells was published in the July and August bulletins. A warm period in the early part of September witnessed the close of summer's heated conditions, and temperatures did not again become uncomfortably high after the 11th of that month.

The annual mean precipitation, 36.66 inches, was nearly four inches below the normal annual fall. The driest regions of the Section were in the interior counties—from Allegany on the west to Howard and Montgomery on the east—where the amounts ranged for the most part between 28 and 33 inches. An increase to nearly 40 inches was observed over the more southern counties, while immediately to the eastward of the dry area the annual amounts measured between 40 and 45 inches. The heaviest annual fall, 52.19 inches, was reported from Sunnyside, in Garrett County. The distribution by months is well shown in the footings of the precipitation table: February was wet in all districts, June rainfall was quite heavy in Southern Maryland, and the Eastern Shore had more months with precipitation above normal than any other region.

An even distribution of the year's snowfall would have given a uniform depth of a little more than two feet over the entire Section. The actual distribution is shown in the small chart on the following page. The heavier falls of the year occurred in February and March, the amounts being unusually light in January, November and December. About half an inch fell, on an average, in April, and none in October.

The year was without severe general windstorms, either inland or on adjoining waters. Three deaths by lightning were reported during the summer, and a number of head of live stock were killed in the same manner. Electrical storms were most severe in July, when considerable loss of property was occasioned by lightning stroke, although not more than is usually reported for that month.

The crop season was favorable for wheat, rye and peaches, but dry weather in April and May, and drought and excessive heat in July to September, caused a shortage in other crops.

ANNUAL SUMMARY.

ATMOSPHERIC PRESSURE—IN INCHES AND HUNDREDTHS.

Annual mean at Washington, D. C., 30.06; at Baltimore, 30.05; average, 30.06; highest, 30.73, at Washington, D. C., on February 27th; lowest, 29.27, at Baltimore, on February 22d.

TEMPERATURE—IN DEGREES FAHRENHEIT.

The annual mean (entire territory), 55.0° , was 1.3° above the normal.

The highest annual mean was 59.1° , at Solomon's.

The lowest annual mean was 47.8° , at Deer Park.

The highest temperature recorded during the year was 106° , at Green Spring Furnace, on July 17th.

The lowest temperature recorded during the year was -15° , at Deer Park and Sunnyside, on February 27th.

The annual range of temperature, within the sectional limits, was 121° .

The greatest local annual range was 113° , at Boettcherville.

The least local annual range was 89° , at Pocomoke City.

The greatest local daily range in the year was 58° , at Grantsville, on October 10th.

The least local daily range in the year was 0° , at several stations and on a number of dates.

PRECIPITATION—IN INCHES AND HUNDREDTHS.

The annual average (entire territory), 36.66, was 3.98 below the normal.

The greatest annual amount was 52.19, at Sunnyside.

The least annual amount was 28.21, at Cumberland.

The greatest local monthly fall was 10.94, at Washington, D. C., in June.

The least local monthly fall was 0.40, at Deer Park, in September.

The greatest fall in twenty-four hours was 5.53, at Solomon's, on August 23d.

The average number of rainy days for the year was 88.

WIND.

The prevailing wind direction for the year was from the northwest.

The total annual wind movement was 44,743 miles at Baltimore, and 58,543 miles at Washington, D. C.

The maximum wind velocity for the year was 40 miles per hour from the northwest, at Washington, D. C., on February 13th.

MISCELLANEOUS.

The average number of clear days, 173,

The average number of partly cloudy days, 100.

The average number of cloudy days, 92.

The sunshine received during the year at Baltimore was 55 per cent. of the possible amount.

Thunderstorms occurred in every month except March.

Hail fell in every month except September and October.

Sleet fell in January, February, March, April and December.

Solar halos were observed in every month except August and September.

Lunar halos were observed in every month but May.

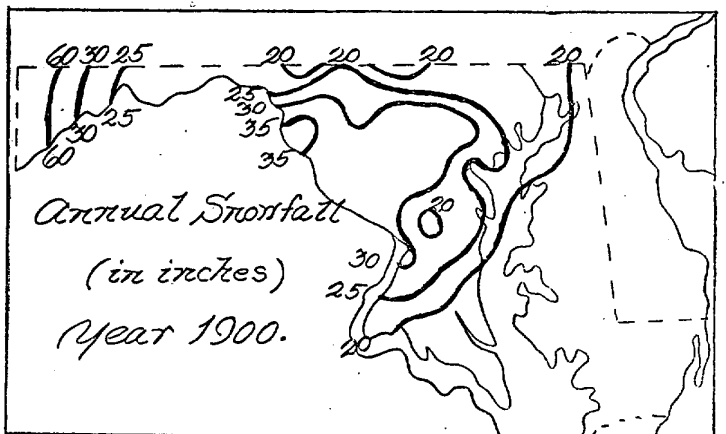
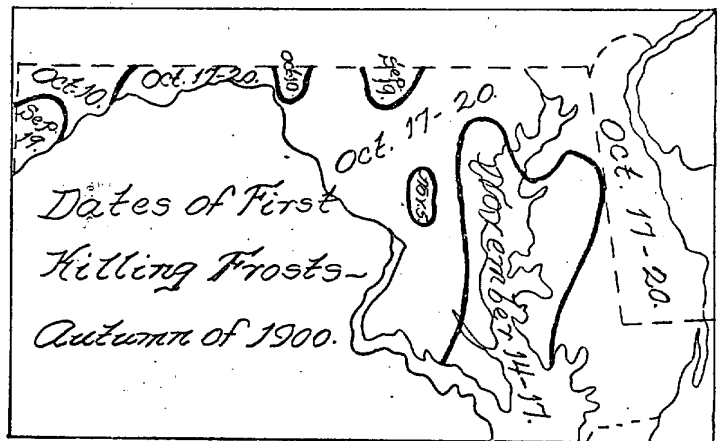
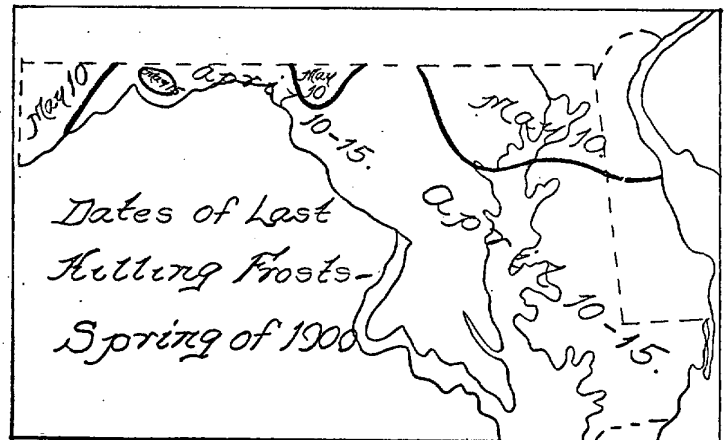
Lunar coronæ were observed in every month but August.

Auroral displays were witnessed in January, February, March, April and November.

Solar coronæ were seen in January, August and December.

Mock suns were observed in January, February, March, August and December.

A partial solar eclipse was observed on May 28th.



Climatological data for the year 1900.

Stations.	Counties.	Elevation, feet.	Temperature (degrees Fahrenheit).						Precipitation (inches).						Sky.				Prevailing direction of wind.	
			Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.	Total snowfall.	Number rainy days.	Number clear days.	Number partly cloudy days.		Number cloudy days.
WESTERN MARYLAND.																				
Boetcheville	Allegany	780	10	55.3	105	July 17	-8	Mich. 13	10	28.43	3.85	Nov.	0.78	Sept.	75	202	87	76	W.	
Roonsboro	Washington	600	3	55.1	104	July 16	-	Feb. 1	3	30.95	3.60	Mich.	1.30	May	73	202	87	76	W.	
Chewsville	Washington	530	3	54.3	101	July 16	-7	Mich. 18	3	32.91	4.52	June	1.37	Oct.	84	148	176	40	NW.	
Clear Spring	Washington	500	3	55.0	102	July 17	-2	Feb. 17	3	32.91	5.41	July	1.09	Sept.	81	176	176	40	NW.	
Cumberland	Allegany	722	30	56.9	100	Aug. 11	6	Aug. 11	30	28.21	4.09	Nov.	0.64	Apr.	68	176	176	40	NW.	
Deer Park	Garrett	2,457	8	51.4	90	July 14	-15	Feb. 27	8	36.21	5.68	Nov.	0.40	Sept.	81	200	7	158	SW.	
Frostburg	Allegany	2,200	3	51.4	95	July 17	-4	Feb. 1	3	36.21	5.34	Nov.	1.57	Aug.	200	118	118	129	SW.	
Grantsville	Garrett	2,400	8	48.8	92	July 17	-10	Feb. 27	8	36.00	5.89	Nov.	0.87	Sept.	95	118	118	129	W.	
Greenspring Furnace	Washington	450	8	54.4	106	July 17	-1	Feb. 2	8	36.00	3.81	Mich.	1.44	Oct.	82	210	74	81	E.	
Hagerstown	Washington	552	7	55.5	105	July 16	0	Feb. 20	7	37.61	4.94	July	1.46	Apr.	92	203	73	84	NW.	
Hancock	Washington	455	3	54.8	105	July 16	-4	Mich. 18	3	30.30	4.18	June	1.09	Apr.	66	135	127	99	W.	
Sharpsburg	Washington	420	3	54.0	102	July 16	-10	Mich. 18	3	29.76	3.81	Feb.	1.39	Apr.	95	155	147	63	NW.	
Smithsburg A	Washington	750	3	54.0	102	July 16	-10	Mich. 18	3	29.76	3.81	Feb.	1.39	Apr.	95	155	147	63	NW.	
Smithsburg B	Washington	900	3	54.5	101	July 16	-1	Feb. 25	3	37.81	5.66	July	1.31	Apr.	27.0	80	155	110	S.	
Sunnyside	Garrett	2,440	8	51.2	93	Aug. 11	-15	Feb. 27	8	35.19	6.81	June	1.75	Apr.	68.3	152	127	104	S.	
Westport	Allegany	1,000	7	51.2	97	July 17	0	Mich. 17	7	30.65	4.81	Nov.	0.94	Sept.	28.2	103	155	104	NW.	
Entire Section				53.1	106	July 17	-15	Feb. 27		33.93	6.81	June	0.40	Sept.	35.7	92	164	107	94	W.
NORTHERN-CEN. MD.																				
Bachman's Valley	Carroll	860	8	52.6	102	July 17	0	Feb. 2	8	43.35	8.22	Feb.	1.79	Apr.	74	250	58	57	NW.	
Baltimore	Baltimore	123	50	57.4	100	July 17	0	Feb. 1	53	31.57	4.65	Feb.	1.00	May	115	107	137	121	W.	
Baltimore J. H. Hos.	Baltimore	112	7	55.3	101	Aug. 10	5	Feb. 17	3	37.30	6.45	Feb.	1.15	May	32.2	108	200	41	NW.	
Chase	Baltimore	25	3	54.0	102	Aug. 11	-3	Feb. 19	3	40.16	6.02	Feb.	1.15	Nov.	25.0	82	173	112	80	N.
Darlington Academy	Harford	339	10	54.8	103	Aug. 11	3	Feb. 2	10	41.46	5.59	Aug.	1.56	Oct.	24.0	79	200	95	67	NW.
Fallston School	Harford	450	31	54.6	103	Aug. 11	4	Feb. 2	31	38.06	5.57	Feb.	2.21	July	23.3	122	62	232	SW.	
Frederick	Frederick	275	26	56.1	101	July 17	3	Mich. 18	26	32.94	4.62	Feb.	1.55	May	27.0	105	191	89	70	SW.
Great Falls	Montgomery	200	10	54.6	99	July 17	-2	Feb. 26	11	30.74	4.56	Feb.	1.34	Oct.	88	246	0	0	SE.	
Harney	Frederick		2						2		5.00	Feb.	1.10	Apr.						
McDonogh	Baltimore		25		100	July 17	3	Feb. 1	20		5.04	June	1.61	Apr.		256	53	45	SW.	
Mt. St. Mary's College	Frederick	720	35	54.0	100	July 17	1	Feb. 1	32	38.39	4.91	Feb.	1.20	Apr.	29.0	81	174	95	96	SW.
New Market	Frederick	550	28		100	July 16	3	Feb. 27	26		6.13	July	1.84	Sept.					NW.	
St. Charles College	Howard	500	8				2	Feb. 2	8	30.71	6.61	Feb.	1.38	Nov.	24.0	92	138	136	91	W.
Takoma Park	Montgomery		1	55.6	100	Aug. 11	4	Jan. 30	1	40.78	7.26	Feb.	1.20	Apr.	32.3	108				
Tanertown	Carroll	490	5	54.9	105	July 17	3	Mich. 18	9	29.04	4.21	Feb.	1.20	Apr.	18.2	91				
Van Bibber	Harford	22	6	54.1	100	Aug. 11	3	Jan. 29	6		6.78	Feb.	1.93	Sept.	28.0	126				
Western Md. College	Carroll	900	6	53.7	102	July 17	3	Feb. 17	6		5.08	Feb.	1.66	July	28.0					
Woodstock College	Baltimore	392	30	55.0	99	July 17	4	Mich. 18	30	32.52	4.39	Feb.	1.10	Oct.	32.1	94	189	95	81	NW.
Entire Section				54.7	105	July 17	-3	Feb. 19		36.39	8.22	Feb.	1.00	May	26.8	96	170	103	92	NW.
SOUTHERN MARYLAND.																				
Annapolis	Anne Arundel	45	28	57.3	100	July 17	5	Feb. 25	24	41.44	6.41	June	1.07	Aug.	28.5	71	154	120	90	SW.
Charlotte Hall School	St. Marys	167	8		102	Aug. 11	3	Feb. 17	8		5.44	July	1.79	May						
Dist. of Columbia	Dist. of Columbia	120	10	57.2	97	Aug. 10	8	Feb. 1	9	34.75	7.91	June	1.26	May		89				
Jewell	Anne Arundel	165	12	56.6	100	Aug. 11	4	Feb. 1	12	42.05	5.88	Sept.	1.94	Nov.	21.5	83	226	57	80	SW.
Laurel	Prince George's	150	6	55.4	103	July 17	3	Jan. 5	6	42.23	8.28	June	0.85	Aug.	30.0	70	138	139	85	SW.
Md. Agricultural Coll.	Prince George's	170	10	55.5	103	July 17	4	Feb. 2	10	37.53	7.15	June	1.57	Mich.	18.6	67	240	52	73	
Receiving Reservoir	Dist. of Columbia	100	10	56.7	95	July 17	7	Feb. 1	10	34.59	8.20	June	1.41	July		86				
Solomon's	Calvert	20	9	59.1	103	Aug. 11	9	Feb. 1	9	35.36	6.77	Aug.	1.30	July	17.5	91	116	96	153	SW.
Washington	Dist. of Columbia	112	30	56.5	101	Aug. 12	6	Feb. 2	30	41.20	10.94	June	1.25	July	33.8	112	174	79	112	NW.
Entire Section				56.8	103	July 17	3	Jan. 5		38.83	10.94	June	0.85	Aug.	21.9	84	177	94	94	NW.
EASTERN MARYLAND.																				
Coleman	Kent	80	3						3		5.64	Feb.	1.33	Nov.	22.5					
Denton	Caroline	42	8				5	Feb. 2	8											
Easton	Talbot	35	10	56.3	101	Aug. 11	7	Feb. 2	10	42.48	6.80	Sept.	1.91	May		89	268	93	64	W.
Pocomoke City	Worcester	37	7	58.3	99	Aug. 12	10	Feb. 27	7	4.39	4.39	Nov.	1.24	Oct.		81	161	131	71	S.
Princess Anne	Somerset	20	10	56.4	98	July 8	5	Feb. 2	10	35.68	4.10	Nov.	1.68	Sept.	19.3	104	87	202	76	SW.
Queenstown	Queen Anne	20	3				7	Feb. 25	3		5.58	Feb.	1.47	Oct.						
Rock Hall	Kent	25	3	56.3	101	Aug. 10	5	Feb. 27	3	39.86	8.73	Sept.	1.49	Oct.	19.7	99	195	60	110	S.
Sudlersville	Queen Anne		3	56.1	97	July 16	5	Feb. 2	3	39.40	6.39	Feb.	1.48	June		79	191	100	74	W.
Entire Section				56.8	101	Aug. 11	5	Feb. 27		39.24	8.23	Sept.	0.85	Apr.	22.4	88	167	115	83	NW.
DELAWARE.																				
Millford	Kent	20	18						18		5.30	Oct.	0.75	Aug.						
Millsboro	Sussex	23	8	55.9	104	Aug. 13	4	Feb. 2	8	39.26	4.93	May	1.75	Sept.		91	199	72	94	NW.
Newark (Del. Coll.)	Newcastle	130	7	54.9	98	July 17	4	Feb. 2	7	40.40	6.18	Feb.	1.44	Oct.	16.5	98	181	76	108	NW.
Seaford	Sussex	49	9	57.1	102	Aug. 11	7	Feb. 2	9	37.10	4.49	Feb.	2.23	Nov.		78	186	58	121	NW.
Wyoming	Kent		2				3	Feb. 2	2											
Entire Section				55.8	104	Aug. 13	3	Feb. 2		38.11	6.18	Feb.	0.75	Aug.	22.5	83	201	61	163	NW.
Entire Territory				55.0	106	July 17	-15	Feb. 27		36.66	10.94	June	0.40	Sept.	26.8	88	173	100	92	NW.

NOTE.—A few stations having incomplete annual records are omitted from the body of this table, but all obtainable reports have been considered in the entries of averages and extremes.

† And other dates also.

Monthly and annual temperatures for the year 1900, with departures from the normal.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.		
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	
WESTERN MARYLAND.																											
Boetcheville	34.6	+6.2	31.7	+0.7	37.8	-2.0	53.4	+3.3	63.6	+1.6	72.8	+1.8	77.1	+3.5	78.6	+7.2	72.6	+7.6	60.4	+8.7	47.4	+6.4	33.8	-1.2	55.3	+3.6	
Boonsboro	32.6	.....	30.8	.....	35.8	.....	53.1	.....	64.2	.....	72.0	.....	78.4	.....	78.0	.....	73.2	.....	60.7	.....	47.4	.....	34.8	.....	55.1	.....
Chewsville	33.3	.....	31.2	.....	35.8	.....	50.8	.....	61.2	.....	71.3	.....	76.8	.....	77.0	.....	72.4	.....	60.3	.....	46.8	.....	34.6	.....	54.3	.....
Clear Spring	.....	.....	28.2	.....	34.4	.....	50.2	.....	63.0	.....	75.6	.....	75.6	.....	75.8	.....	71.5	.....	60.0	.....	46.3	.....	33.2	.....	56.9	+1.2
Cumberland	37.0	+2.3	30.1	-6.4	36.8	-5.1	53.0	-2.2	63.5	-2.0	76.4	+2.9	78.3	+2.1	82.2	+7.2	76.4	+7.3	64.0	+8.4	50.2	+4.4	34.4	-4.0	56.9	+1.2	
Deer Park	27.8	+1.6	24.4	-3.1	32.4	-2.3	46.2	+1.5	55.4	-2.7	64.0	-0.3	67.6	+1.0	69.7	+4.4	65.0	+4.5	53.2	+6.3	39.6	+1.7	28.3	-0.1	47.8	+1.0	
Frostburg	32.2	.....	28.2	.....	35.2	.....	50.7	.....	61.8	.....	70.8	.....	72.1	.....	73.6	.....	70.0	.....	53.4	.....	43.5	.....	31.7	.....	51.4	.....
Grantsville	28.0	+2.2	24.1	-1.8	31.0	-5.5	45.4	-1.0	57.2	-0.4	65.4	+0.6	69.6	+1.0	71.4	+4.3	66.3	+3.2	56.0	+6.8	40.9	+1.5	29.9	-0.9	48.8	+0.8	
Green Spring Furnace	32.4	+5.2	30.0	-1.7	37.1	-2.1	52.6	+1.2	63.0	-0.8	72.5	0.0	77.3	+1.1	77.5	+2.7	72.0	+4.0	59.5	+7.4	45.7	+4.0	33.1	+0.6	54.4	+1.6	
Hagerstown	33.8	+1.5	30.6	-4.2	36.6	-5.1	53.6	0.0	64.1	-0.1	73.3	+1.7	77.7	+3.8	78.6	+4.6	73.8	+5.8	61.6	+5.8	47.8	+2.2	34.7	-2.2	55.5	+1.2	
Hancock	33.0	.....	29.3	.....	35.8	.....	52.6	.....	63.4	.....	73.2	.....	77.7	.....	78.0	.....	73.0	.....	60.6	.....	46.6	.....	33.0	.....	54.8	.....
Sharpsburg	32.7	+3.2	31.0	+1.4	37.0	-4.1	53.2	+1.4	61.6	.....	71.7	+1.5	78.0	+3.3	78.2	+4.3	.....	.....	.....	.....	48.6	+4.7	34.1	+0.2	.....	.....
Smithsburg A	32.6	.....	30.3	.....	35.6	.....	51.0	.....	61.6	.....	70.9	.....	76.7	.....	76.5	.....	71.8	.....	60.0	.....	47.2	.....	34.4	.....	54.0	.....
Smithsburg B	33.5	.....	30.0	.....	35.6	.....	52.4	.....	63.4	.....	71.6	.....	77.2	.....	77.2	.....	71.8	.....	60.6	.....	46.9	.....	34.0	.....	54.5	.....
Sunnyside	27.2	+2.9	23.2	-1.5	30.6	-5.5	44.4	-1.2	53.4	+0.5	64.7	+0.3	68.0	+0.6	71.0	+5.6	65.6	+4.4	55.8	+8.2	40.4	+3.0	27.2	-3.0	47.9	+1.2	
Westernport	29.6	+1.4	27.8	-1.0	33.4	-4.8	48.5	-2.6	60.0	-2.8	68.0	-3.3	73.9	-0.7	75.2	+3.2	69.2	+2.2	56.6	+5.6	42.2	+0.8	30.0	-2.1	51.2	-0.3	
Average	32.0	+2.7	28.8	-2.0	35.1	-4.1	50.7	0.0	61.3	-0.8	70.4	+0.6	75.1	+1.7	76.2	+4.9	70.8	+4.9	58.8	+7.2	45.5	+3.2	32.6	-1.4	53.1	+1.4	
NORTHERN-CENTRAL MD.																											
Bachman's Valley	30.9	+2.0	28.8	-0.3	34.4	-5.4	50.2	+0.7	60.5	-1.7	70.0	0.0	76.5	+2.0	76.2	+4.0	69.9	+4.9	58.0	+6.6	44.4	+3.1	31.8	-0.1	52.6	+1.3	
Baltimore	36.2	+2.2	33.1	-3.0	38.6	-2.9	55.0	+1.9	65.2	+1.2	73.4	0.0	80.1	+2.9	80.4	+5.4	73.8	+5.8	62.0	+5.1	49.7	+4.3	37.2	-0.4	57.1	+1.0	
Baltimore J. H. Hosp'l	33.5	+1.5	30.9	-1.1	36.7	-5.1	53.0	+0.5	63.5	-0.5	71.8	+0.9	79.1	+2.9	78.8	+3.5	72.6	+3.0	61.4	+6.1	47.8	+2.6	34.2	-1.7	55.3	+1.9	
Chase	32.0	.....	32.0	.....	38.2	.....	51.8	.....	61.5	.....	68.8	.....	77.0	.....	77.6	.....	71.2	.....	60.6	.....	46.2	.....	31.0	.....	54.0	.....
Darlington Academy	32.8	+3.1	31.2	+1.0	36.6	-3.9	52.4	+1.4	62.9	+0.9	71.9	+1.3	77.4	+2.6	78.4	+5.4	70.8	+4.1	61.8	+8.4	47.4	+4.1	33.8	-1.4	54.8	+2.2	
Fallston School	33.4	+3.0	31.4	-1.0	34.8	-3.6	51.8	+1.8	62.5	+1.3	71.0	+1.0	77.6	+3.4	78.2	+6.4	71.2	+5.6	60.6	+6.3	47.8	+5.0	35.0	+1.0	54.6	+2.5	
Frederick	33.8	+1.9	32.4	-1.5	37.8	-2.9	53.7	+1.7	64.2	+1.2	73.0	+1.1	79.2	+3.3	79.3	+5.8	73.6	+7.0	61.7	+7.1	48.5	+4.9	36.2	+0.9	56.1	+2.8	
Great Falls	31.6	+0.5	30.6	-3.0	36.8	-5.4	52.0	-1.4	63.8	-1.0	72.8	-0.7	77.7	+2.7	77.6	+2.4	73.6	+5.1	60.0	+5.2	46.0	+2.5	32.2	-3.8	54.6	+0.1	
McDonogh	34.1	+3.1	31.6	-2.3	36.4	-2.4	52.1	+0.9	64.2	+2.2	70.7	0.0	77.3	+2.9	77.1	+5.3	70.9	+5.4	59.3	+4.8	45.2	+1.5	.....	.....	.....	.....
Mt. St. Mary's College	32.8	+2.8	29.2	-3.4	35.8	-2.7	51.7	+0.6	63.1	+2.3	69.4	-0.5	74.6	-0.7	76.4	+4.0	72.0	+7.2	60.3	+6.6	47.5	+5.2	34.6	+1.9	51.0	+1.9	
New Market	32.3	+1.9	30.3	-2.9	.....	.....	.....	.....	63.4	+0.1	71.6	-1.6	77.5	+0.3	77.4	+3.4	71.8	.....	60.4	.....	47.2	.....	34.0	.....	50.5	.....
St. Charles College	33.4	+0.4	30.8	-6.4	36.9	-5.4	51.2	-3.0	61.6	-2.7	67.8	-4.0	.....	.....	.....	.....	72.9	.....	60.2	.....	47.6	.....	33.8	.....	55.6	.....
Takoma Park	34.4	.....	33.4	.....	38.6	.....	54.6	.....	64.0	.....	71.0	.....	77.8	.....	78.4	.....	72.9	.....	60.2	.....	47.6	.....	33.8	.....	55.6	.....
Taneytown	31.6	+0.6	29.7	-2.7	36.6	-9.6	51.4	-0.3	61.2	-2.4	73.4	+2.1	80.0	+2.6	79.1	+4.5	72.8	+3.9	61.5	+5.9	47.9	+3.5	33.8	+0.2	54.9	+0.7	
Van Bibber	31.0	-0.5	30.3	-2.7	35.6	-5.2	52.6	+0.3	62.7	-0.9	71.4	+1.2	77.7	+1.0	80.0	+5.9	70.1	+3.1	59.5	+5.2	46.6	+2.6	33.8	-0.5	54.1	+0.6	
Walkbrook	36.3	32.2
Western Md. College	32.2	+1.2	30.4	-1.8	34.2	-8.8	52.2	-2.3	61.7	-4.3	70.6	-3.1	73.8	.....	75.3	.....	72.2	.....	60.6	+4.9	47.1	0.0	33.7	-4.2	53.7	.....
Woodstock College	32.1	+0.5	31.9	-1.0	36.8	-2.2	53.2	+2.0	64.2	+1.8	72.6	+1.8	78.1	+3.5	77.4	+5.7	71.0	+5.9	60.7	+7.6	48.2	+6.4	33.8	+0.2	55.0	+2.2	
Average	33.0	+1.6	31.1	-2.1	36.6	-4.7	52.5	+0.5	63.0	-0.2	71.2	0.0	77.6	+2.1	77.8	+4.6	71.9	+5.1	60.5	+6.1	47.2	+3.6	33.9	-0.7	54.7	+1.3	
SOUTHERN MARYLAND.																											
Annapolis	35.8	+1.6	34.0	-1.6	39.6	-2.5	55.4	+2.3	65.3	+1.5	74.0	-0.3	79.8	+1.3	80.9	+4.2	74.5	+5.0	62.5	+5.2	49.6	+3.4	36.4	-1.1	57.3	+1.6	
Charlotte Hall School	.....	.....	34.2	-0.7	39.6	-5.8	53.3	-0.4	64.2	-1.0	72.0	-0.5	78.6	+2.2	.....	.....	74.3	+2.6	63.2	+6.8	49.2	+2.2	36.0	-2.2	.....	.....
Distributing Reservoir	34.7	+2.8	33.6	-0.5	39.2	-4.0	56.1	+2.1	66.9	+1.7	73.6	-0.9	80.4	+3.2	79.6	+3.5	74.0	+5.1	61.9	+5.9	49.8	+4.6	36.8	+0.2	57.2	+2.0	
Jewell	36.2	+1.9	34.5	-1.0	38.0	-4.0	54.2	-0.5	64.0	-0.3	72.3	.....	76.6	+0.7	78.7	+3.1	73.0	+3.5	62.0	+6.9	52.0	+5.6	37.6	-0.3	56.6	+1.2
Laurel	33.4	-2.4	33.2	-1.5	36.6	-6.7	52.8	-0.2	63.4	+0.3	71.6	+0.8	77.3	+2.0	79.1	+4.2	73.6	+4.1	61.0	+6.2	47.6	+1.3	34.8	-1.7	53.4	+0.5	
Md. Agricultural Coll.	31.6	-2.5	33.0	-1.6	38.8	-5.5	47.8	-5.5	63.8	+0.9	74.2	+2.5	79.3	+5.1	79.7	+6.0	74.1	+5.0	61.1	+6.0	48.2	+2.2	34.9	-4.1	55.5	+0.7	
Prince Fredericktown	.....	.....	.....	.....	40.6	.....	54.2	.....	66.4	.....	73.0	-0.7	79.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Receiving Reservoir	34.6	+2.7	33.3	-0.5	39.4	-3.2	55.3	+1.8	66.4	+1.5	75.2	-0.7	79.8	+2.8	79.3	+3.6	73.6	+5.5	61.6	+5.9	49.0	+4.0	35.0	-1.2	56.7	+1.8	
Solomon's	38.0	+3.8	35.4	-0.3	41.0	-2.6	53.8	+0.5	65.6	+0.7	75.0	+0.6	81.4	+3.3	82.7	+4.6	77.0	+4.7	65.3	+6.0	52.8	+4.2	40.7	+1.6	59.1	+2.3	
Washington, D. C.	35.2	+2.0	33.7	-2.1	38.8	-2.5	54.2	+1.2	64.4	+0.5	72.2	-1.0	78.7	+1.9	79.8	+5.2	73.6	+5.8	61.8	+5.6	49.3	+4.8	36.5	+0.3	56.5	+1.8	
Average	34.9	+1.2	33.9	-1.1	39.2	-4.1																					

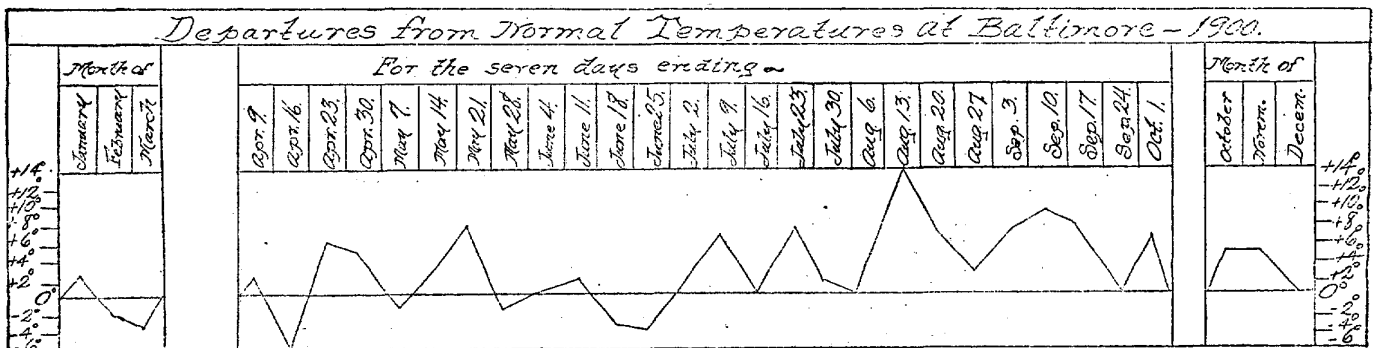
Monthly maximum temperatures for the year 1900, with dates.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.
WESTERN MARYLAND.																								
Boettcherville.....	63	23	66	8	68	23	84	30	96	16	99	11	105	17	100	6	101	10	89	6	75	20	56	19
Boonsboro.....	62	23	60	8	65	23	85	30	96	15	95	11	104	16	99	11	99	11	89	6	75	21	60	19
Chewsville.....	60	23	61	10	65	23	80	30	92	15	92	27	101	16	99	12	96	6	88	6	75	21	58	24
Clear Spring.....	.....	.....	54	16	68	24	76 ^s	29	.....	.....	.....	.....	102	17	97	12	94	7	85	6	74	22	56	20
Cumberland.....	69	23	59	8	63	23	74	24	82	16	91	11	99	17	100	11	98	6	87	5	74	3	56	19
Deer Park.....	55 ^s	22	72	8	56	5	77	24	88	16	87 ^h	11	90	14	89	6	89	8	82	6	72 ^h	19	55	23
Frostburg.....	57	23	63	8	60	23	77	30	90	15	90	11	95	17	94	10	94	10	85	6	71	20	61	2
Grantsville.....	57	22	69	8	57	13	76	30	88	16	88	11	92	17	91	11	91	8	88	10	71	19	57	22
Green Spring Furnace.....	60	23	53	15	66	23	85	30	94	14	95	11	106	17	100	11	97	11	85	5	76	21	55	19
Hagerstown.....	65	23	56	13	65	23	85	30	96	15	96	11	105	16	101	11	99	11	90	6	76	21	57	24
Hancock.....	62	23	57	13	66	23	85	30	99	16	100	11	105	15	103	10	103	11	91	5	76	21	58	19
Sharpsburg.....	60	23	60	8	67	23	84	30	.....	.....	92	27	102	16	100	10	.....	.....	.....	.....	75	21	56	13
Smithsburg A.....	61	23	63	9	64	23	81	30	93	16	93	11	102	16	99	11	97	11	89	6	74	21	56	19
Smithsburg B.....	60	23	63	9	64	23	82	30	94	16	94	11	101	16	96	11	96	11	87	6	73	21	57	20
Sunnyside.....	55	15	72	8	56	13	75	30	87	16	89	24	91	17	93	11	93	9	87	6	75	19	58	22
Westernport.....	55	23	60	8	66	23	79	30	90	16	91	11	97	17	95	10	96	11	85	6	70	19	52	23
NORTHERN-CENTRAL MD.																								
Bachman's Valley.....	55	23	56	9	62	23	80	30	90	15	91	10	102	17	98	11	94	11	85	6	72	21	52	19
Baltimore.....	62	23	65	13	67	23	84	30	94	15	93	29	100	17	100	10	95	11	85	6	79	21	62	19
Baltimore, J. H. Hosp'l.....	62	23	66	13	67	23	83	30	94	15	93	27	100	16	101	10	95	6	85	7	79	21	60	19
Chase.....	60	23	60	13	67	23	77	24	96	15	96	12	100	18	102	11	93	6	85	6	73	21	53	1
Darlington Academy.....	59	23	61	13	65	23	77	30	92	15	92	25	101	18	103	11	92	6	85	6	76	21	58	19
Fallston School.....	57	16	61	13	66	23	76	30	92	15	91	27	102	18	103	11	93	6	85	6	76	21	59	19
Frederick.....	61	23	57	13	67	23	83	30	94	15	94	27	101	17	100	11	97	11	86	6	76	21	58	24
Great Falls.....	62	24	67	9	67	24	78	25	93	16	93	12	99	17	98	12	97	12	85	7	78	22	57	14
McDonogh.....	59	20	62	13	63	6	79	30	90	15	90	8	100	17	100	6	93	6	89	6	76	21	57	19
Mt. St. Mary's College.....	60	23	59	13	65	23	82	30	93	15	92	11	100	16	99	11	95	11	86	6	68	2	56	19
New Market.....	59	23	55	13	.....	.....	83	30	92	15	92	11	100	16	97	11	96	11	87	6	77	21	56	19
St. Charles College.....	62	23	65	13	66	23	80	30	91	15	90	11	95	17	.....	.....	.....	.....	.....	.....	77	21	62	19
Takoma Park.....	65	23	67	8	69	23	83	30	92	15	91	29	99	17	100	11	96	11	87	6	77	21	54	18
Taneytown.....	60	23	55	13	65	23	82	30	91	15	95	27	105	17	101	7	97	11	87	6	77	21	57	24
Van Bibber.....	57	23	58	8	59	6	75	24	93	15	91	27	98	18	100	11	89	6	82	6	75	21	57	24
Walbrook.....	60	20	65	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Western Md. College.....	58	23	55	5	62	23	80	30	91	16	93	11	102	17	99	7	90	11	88	6	74	20	55	19
Woodstock College.....	59	23	63	13	66	23	82	30	93	15	93	29	99	17	98	11	91	6	81	6	78	21	57	19
SOUTHERN MARYLAND.																								
Annapolis.....	60	16	64	13	65	23	83	30	93	15	95	29	100	17	100	8	94	6	85	6	75	21	58	19
Charlotte Hall School.....	57	23	73	13	69	23	84	30	95	15	95	11	100	4	102	11	100	7	90	6	78	21	65	24
Jewell.....	63	23	67	8	66	23	80	30	93	15	92	27	97	17	100	11	96	11	82	7	77 ^h	18	60	24
Laurel.....	65	23	70	8	68	6	83	30	95	15	93	11	103	17	102	11	100	11	90	6	80	21	64	24
Md. Agricultural Coll.....	61	23	64	8	67	23	72	8	93	15	97	29	103	18	103	11	100	11	90	6	78	21	62	24
Prince Fredericktown.....	.....	.....	71	23	82	30	.....	.....	93	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Solomon's.....	63	16	62	8	68	23	76	24	95	15	91	27	99	16	103	12	97	11	87	6	76	21	61	24
Washington, D. C.....	64	23	69	13	68	23	82	30	94	15	93	29	99	18	101	11	97	11	87	6	79	21	62	24
EASTERN MARYLAND.																								
Cambridge.....	62	23	68	15	70	24	75	29	93	15	91	26	96	18	.....	.....	89	7	83	6	73	21	57	4
Chestertown.....	.....	.....	.....	.....	.....	.....	.....	.....	88	15	91	26	96	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coleman.....	60	23	66	14	67	23	86	24	93	15	91	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Denton.....	59	23	65	14	62	1	73	24	98	15	.....	.....	100	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Easton.....	60	19	65	13	74	7	75	23	91	15	91	26	99	17	101	11	94	7	88	6	78	5	60	4
Pocomoke City.....	61	12	65	13	67	23	79	30	92	15	93	29	98	5	99	12	93	11	84	6	75	23	65	3
Princess Anne.....	60	11	67	13	68	23	76	24	90	14	92	27	98	8	98	12	94	11	87	6	75	23	65	4
Queenstown.....	59	19	63	13	65	22	73	24	91	15	91	26	.....	.....	.....	.....	.....	.....	86	6	74	21	.....	.....
Rock Hall A.....	.....	.....	.....	.....	.....	.....	79	24	94	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rock Hall B.....	.....	.....	61	13	65	23	76	24	91	15	92	29	98	18	101	10	91	7	84	6	73	21	60	24
Sandy Point.....	65	16	60	9	65	23	73	25	91	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sudlersville.....	63	23	65	13	67	23	78	24	90	15	90	26	97	16	96	11	91	11	85	6	78	21	66	24
DELAWARE.																								
Millsboro.....	62	20	61	9	69	24	76	20	96	16	95	27	100	9	104	13	95	9	84	7	76	22	65	5
Newark (Del. College).....	57	23	59	13	64	23	77	30	92	15	90	27	98	17	98	11	89	6	85	6	74	21	56	24
Seaford.....	60	12	66	13	67	23	79	24	95	15	95	29	100	4	102	11	95	7	84	6	74	21	63	4

Monthly minimum temperatures for the year 1900, with dates.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.
WESTERN MARYLAND.																								
Boetherville	6	1	5	1	8	18	25	11	26	5	47	4	42	1	51	2	37	19	27	18	17	16	9	17
Boonsboro	1	1	4	1	3	18	24	10	32	4	47	30	52	1	51	2	42	19	31	20	16	10	17	
Chewsville	0	2	4	21	7	18	23	11	39	4	48	4	44	1	56	5	42	16	29	20	17	16	8	
Clear Spring			2	1	5	18	25	10					50	1	56	24	43	19	32	18	20	16	9	
Cumberland		31	6	25	6	18	31	5	39	5	59	6	56	1	62	2	47	19	36	18	22	16	12	
Deer Park			15	27	2	17	19	5	20	4	39	4	35	1	41	2	29	19	20	18	4	16	0	
Frostburg		31	4	1	2	17	23	10	31	4	43	20	42	1	48	2	40	18	28	17	13	16	7	
Grantsville		31	10	27	2	17	19	5	25	4	41	20	39	1	45	2	33	19	25	20	11	16	3	
Green Spring Furnace			1	0	0	18	24	10	32	4	51	4	47	1	52	2	40	19	28	20	18	16	10	
Hagerstown		1	0	20	0	18	26	10	33	5	50	4	47	1	52	2	40	19	31	20	21	16	10	
Hancock		4	0	2	4	18	24	11	29	5	48	4	45	1	50	2	38	19	25	20	18	16	7	
Sharpsburg		1	4	20	1	18	27	10	33	4	43	1	41	1	55	2	2	18	19	20	20	16	11	
Smithsburg A.		1	1	3	1	18	24	10	35	4	45	5	45	1	50	2	40	19	31	17	18	16	8	
Smithsburg B.		1	1	3	1	18	24	10	35	4	45	5	45	1	50	2	40	19	31	17	18	16	8	
Sunnyside		31	15	27	4	17	16	5	4	3	36	21	38	1	43	4	43	19	21	17	17	15	2	
Westernport		31	3	24	6	17	25	4	8	3	43	30	48	1	50	1	37	18	28	19	16	9	17	
NORTHERN-CENTRAL MD.																								
Bachman's Valley	5	4	0	2	4	17	23	10	33	10	46	5	47	1	50	2	37	19	27	20	20	16	9	15
Baltimore	31	8	1	12	12	30	10	40	4	55	5	58	1	61	2	50	19	30	20	28	16	15	15	
Baltimore J. H. Hosp'l.	0	5	1	9	12	28	10	38	3	50	4	54	2	57	2	46	19	34	20	24	15	11	15	
Chase	30	19	9	13	23	10	35	10	47	5	46	5	46	1	52	4	40	19	29	20	22	15	10	
Darlington Academy	7	30	3	2	6	18	26	10	38	10	51	5	49	1	56	2	45	19	30	20	24	17	12	
Fallston School	8	30	4	2	4	18	23	10	34	10	49	5	49	1	55	2	44	19	31	20	24	16	12	
Frederick	11	5	6	2	3	18	29	10	37	4	50	18	54	1	56	2	45	19	33	20	26	16	13	
Great Falls	5	1	2	26	5	18	26	10	34	10	52	6	54	1	58	4	43	19	32	18	23	15	10	
McDonogh	7	29	3	1	9	11	28	9	38	5	51	12	54	1	54	1	42	18	29	19	21	16	10	
Mt. St. Mary's College	4	31	1	1	2	18	23	11	33	4	48	5	50	2	54	2	48	19	34	20	25	16	11	
New Market	9	6	3	2		25	10	35	4	50	4	51	1	54	2	41	19	30	20	23	16	10	15	
St. Charles College	30	2	2	2	3	18	24	10	33	4	42	3	44	10										
Takoma Park	4	30	4	2	9	12	26	10	35	10	50	17	55	2	57	2	43	19	34	19	25	16	11	
Taneytown	10	2	4	1	3	18	24	10	34	4	49	5	55	14	53	2	39	19	30	20	22	16	10	
Van Bibber	2	29	5	1	8	17	26	9	36	9	51	4	57	1	58	4	47	18	34	19	26	14	13	
Walbrook	2	31	4	2		18	21	9	33	3	42	10	46	10	50	2	43	19	30	18	20	16	9	
Western Md. College	5	31	5	1	3	18	27	10	38	4	51	5	54	2	56	2	40	19	31	20	25	15	14	
Woodstock College	5	1	3	2	4	18	27	10	38	4	51	5	54	2	56	2	43	19	31	20	25	15	14	
SOUTHERN MARYLAND.																								
Annapolis	10	31	5	25	14	12	33	5	33	5	55	20	60	2	63	2	53	19	39	17	28	16	16	15
Charlotte Hall School		3	3	1	11	18	27	10	35	10	50	5	55	29			42	19	30	20	22	17	11	
Jewel	9	2	4	1	10	18	30	1	40	10	53	5	56	1	60	2	47	19	36	20	28	11	14	
Laurel	3	5	3	2	3	18	24	10	33	10	49	5	47	1	52	2	39	19	30	20	22	15	10	
Md. Agricultural Coll.	6	4	4	2	6	18	27	26	37	6	52	5	50	2	55	2	39	19	29	20	23	15	9	
Prince Fredericktown					11	12	29	10	37		50	5	50											
Solomon's	18	2	9	1	16	12	32	10	43	4	55	5	60	1	65	2	53	19	41	17	29	16	20	
Washington, D. C.	8	30	6	2	11	12	30	10	38	10	54	5	56	2	59	2	45	19	35	20	25	17	15	
EASTERN MARYLAND.																								
Cambridge	16	2	11	1	15	12	32	10	42	10														
Chestertown									41	4	53	20	57	1			47	18	34	19	28	14	15	14
Coleman									34	10	33	10	34	9	62	9								
Denton	9	4	2	11	16	26	10	34	10	40	10	49	5	56	2	55	5	45	19	33	20	26	17	12
Paston	12	4	7	2	11	12	27	10	33	10	40	10	50	7	58	28	46	10	37	21	28	16	16	17
Pocomoke City	14	4	10	2	15	12	32	10	40	10	50	7	58	28	57	5	46	10	37	21	28	16	16	
Princess Anne	6	4	5	2	13	12	29	1	39	11	45	7	55	2	53	5	43	19	30	20	23	16	17	
Queenstown	9	31	7	25	12	11	28	9	39	9	48	4												
Rock Hall A							28	10	39	10														
Rock Hall B	10	30	5	2	13	12	28	10	39	6	47	5	55	2	55	5	43	19	32	20	24	15	14	
Sandy Point	9	30	9	1	15	11	29	1																
Sudlersville	12	30	5	2	11	12	28	10	37	10	51	7	51	1	56	2	46	19	34	20	26	17	10	
DELAWARE.																								
Millshoro	8	4	4	2	14	12	29	10	39	10	45	7	56	2	52	5	43	19	32	20	23	17	11	22
Newark (Del. College)	6	30	4	2	6	18	25	11	33	10	50	5	54	2	55	5	43	19	31	20	22	17	12	
Seaford	12	4	7	2	13	12	30	10	39	10	50	5	58	1	56	5	46	19	34	20	26	16	15	
Wyoming	8	2	3	2		24	10	31	10															

Note.—In some cases the extreme of temperature here recorded occurred on more than one date; only the first date of such occurrence is given. Superior letters of the alphabet indicate the number of days missing.

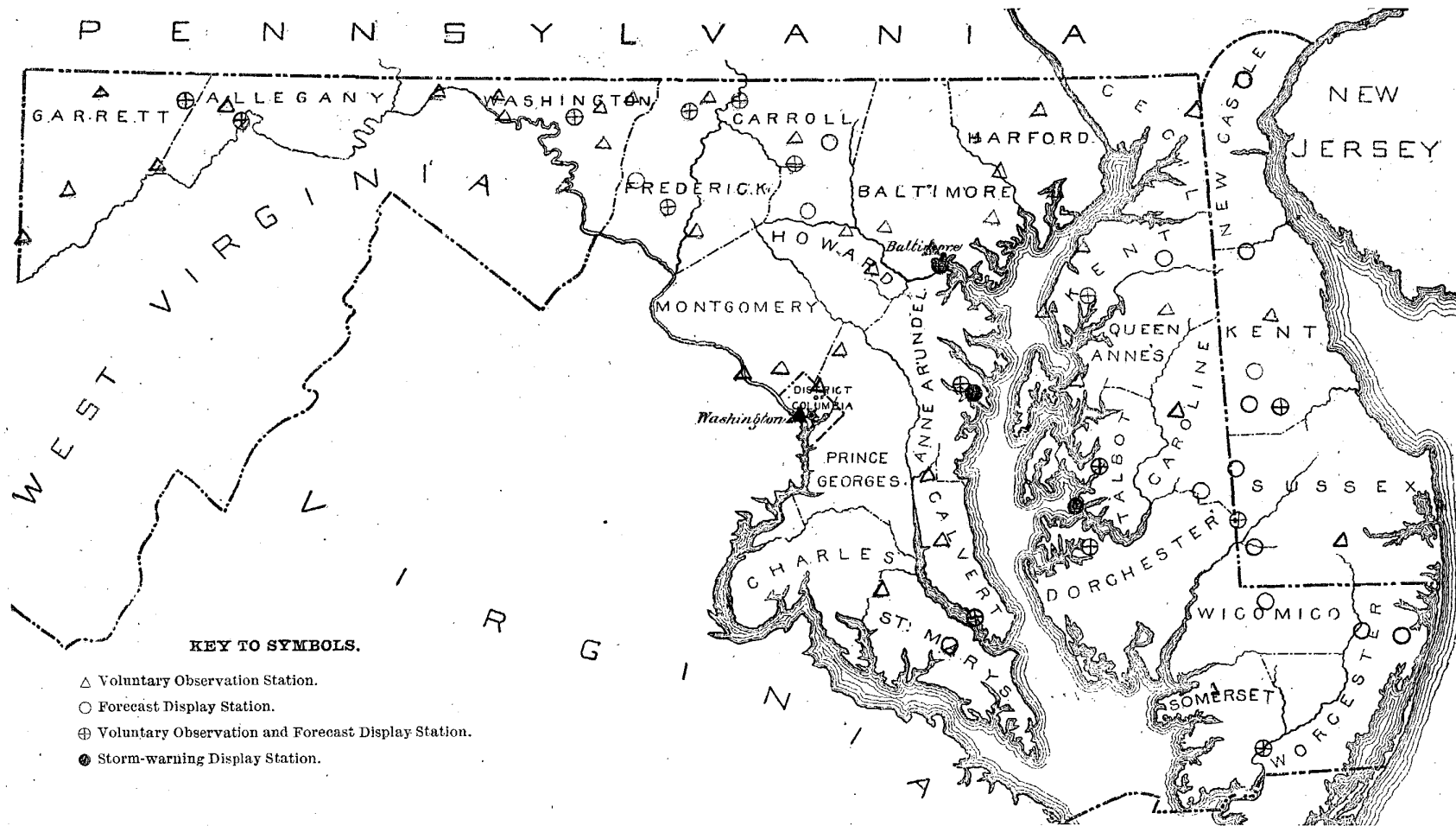


Monthly and annual precipitation for the year 1900, with departures from the normal.

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Table with columns for Stations, months (January-December), and Annual. Rows are categorized by region: WESTERN MARYLAND, NORTHERN-CENTRAL MD., SOUTHERN MARYLAND, EASTERN MARYLAND, and DELAWARE. Each station entry includes precipitation and departure values for each month and the annual total.

CHART SHOWING OBSERVATION AND FORECAST DISPLAY STATIONS.



EXECUTIVE OPERATIONS OF THE YEAR.

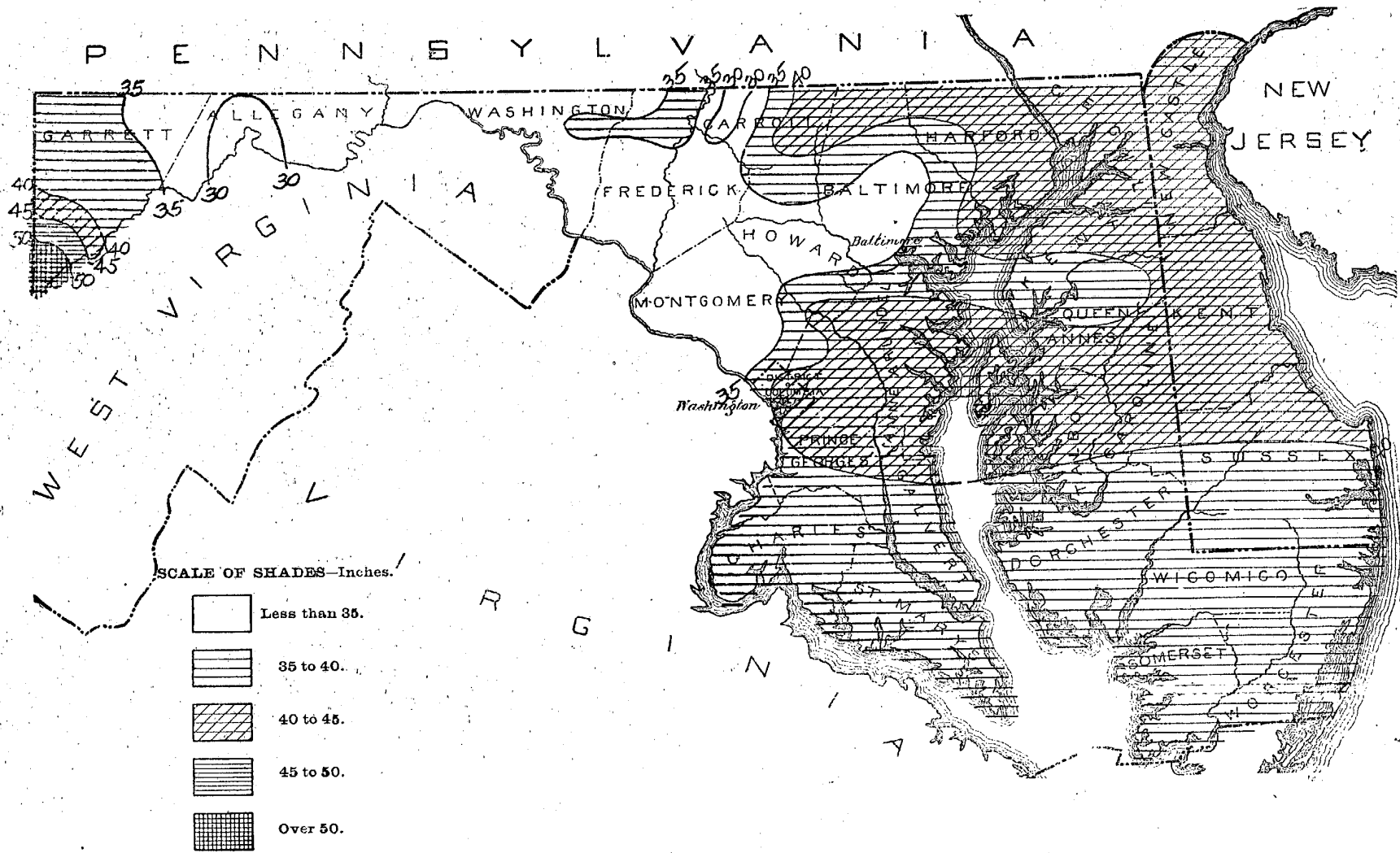
No new meteorological stations were established, nor were any of the active stations discontinued. Thirteen were given a better equipment through the issue of standard instrument shelters, which are now in use at thirty-six stations in all, while at a number of places new thermometers or rain gauges have replaced those unserviceable or defective through long use.

Forecast display stations were established at Cumberland, Cambridge, Drum Point, Federalsburg, Hagerstown, Hampstead, Middletown, Millington and Solomons, in Maryland, and at Bridgeville, Farmington and Harrington, in Delaware. The greater number of these distribute by mail to local addresses or to neighboring postoffices, and thus largely increase the benefits of the forecast service. A feature of considerable importance, inaugurated during the year, is the daily delivery of the forecasts in the

rural districts. In this work the Weather Bureau has kept pace with the improvements introduced by the Postoffice Department, and follows the carriers' routes as new lines of rural free delivery are opened. More than one thousand addresses removed from regular postoffices in Maryland and Delaware are now being served with the forecasts. The stations at Boonsboro, Bradshaw and Singerly were discontinued, but the service formerly conducted from those points was provided for through the enlargement of other centers of distribution.

The storm warning displays for this Section have already been improved by the erection of one of the Weather Bureau steel towers at Annapolis, while the new anchorage building overlooking the Baltimore harbor will soon be surmounted by a similar structure. These towers are some fifty feet high and carry a staff for flags and lanterns that rises twenty-five feet higher.

TOTAL PRECIPITATION, 1900.



VOLUNTARY OBSERVERS.

Table with 6 columns: Stations, Observers, Stations, Observers, Stations, Observers. Lists voluntary observers for Maryland, Maryland-continued, and Delaware.

FORECAST DISPLAYMEN.

[Figures in parenthesis indicate number of post-offices or addresses supplied with forecasts from distributing centers.]

Table with 6 columns: Stations, Displaymen, Stations, Displaymen, Stations, Displaymen. Lists forecast displaymen for Maryland, Maryland-continued, and Delaware.

†Storm warning display stations.

CLIMATE AND CROP CORRESPONDENTS.

Table with 6 columns: Correspondents, Stations, Correspondents, Stations, Correspondents, Stations. Lists climate and crop correspondents for Maryland, Maryland-continued, and Delaware.