

U. S. DEPARTMENT OF AGRICULTURE.

ANNUAL SUMMARY, 1901.

MARYLAND AND DELAWARE SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

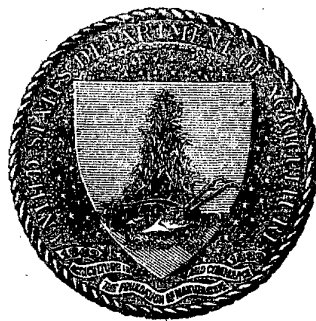
IN COOPERATION WITH THE

MARYLAND STATE WEATHER SERVICE.

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

BY

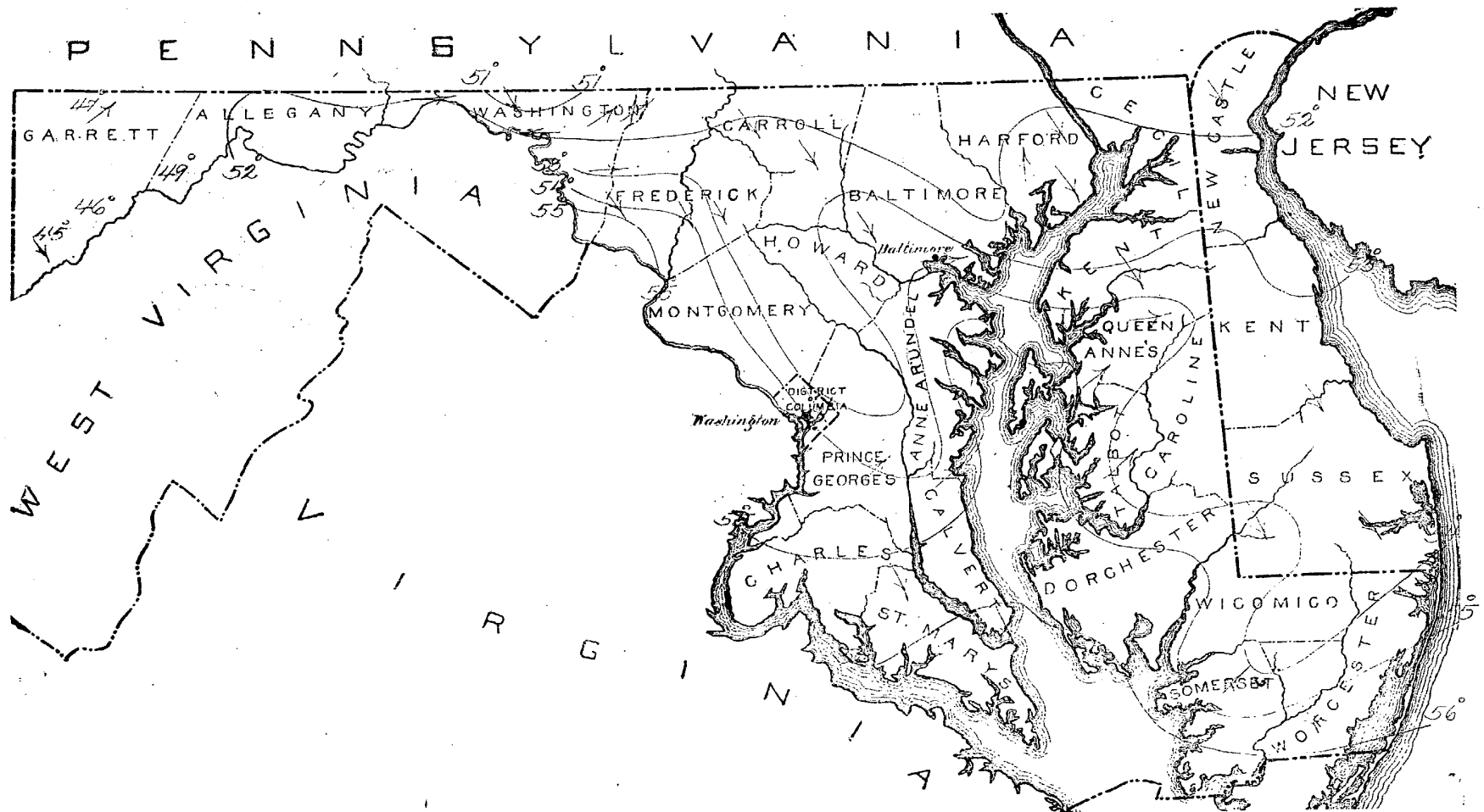
OLIVER L. FASSIG,  
SECTION DIRECTOR.



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

1902.

ANNUAL MEAN ISOTHERMS AND PREVAILING WINDS, 1901.



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. VI.****BALTIMORE, MD.****Annual.****Climate and Crop Review for the Year 1901.**

Owing to the heat and drought that prevailed in the autumn of last year there was some delay in plowing and seeding, but rains in early October permitted rapid advance, while heavy showers later in that month hastened germination and favored growth. November conditions were suitable throughout. In December the weather was generally satisfactory, although some injury was wrought during a sharp cold wave that prevailed from the 14th to the 17th. At the beginning of the present year winter grain and grasses were promising in their appearance and outlook.

Temperature and precipitation were about normal during January. There were two cold periods, the 3d-4th and 18th-20th, with lowest temperatures of 14° to 18° along the shore line, falling to 4° below zero in the mountains. On the 20th ice formed in shallow waters and up the narrow inlets of the Bay, but navigation was not interrupted. The snowfall, which occurred for the most part late in the month, was heavy in the mountains, but light in the south and east. In the latter districts wheat was hurt by the cold winds, while elsewhere a covering of snow was beneficial.

Much cold weather during February was only partly relieved by brief periods of warmth. Ice was of sufficient thickness early in the month to interfere with Bay traffic at points on the Eastern Shore, and again on the 14th to 17th many tributaries were frozen over, and large cakes of floating ice filled the path of steamer travel. The moisture received was everywhere insufficient. The heavy January snows remained unmelted until the middle of the month over the upper counties, affording protection to winter grain, but in the southern counties the entire month was unfavorable to growth.

March temperatures were comparatively mild, except for a cold spell in the early part, and the rainfall was ample. The warmth of the latter part of the month gave a decided impetus to all growing crops. Farm work was scarcely begun in the extreme west, but fair progress was made elsewhere in the section. Buds began to swell in fruit trees in the south, but were held back in the extreme west, where early in the month the temperatures were below zero at some stations.

Rigorous weather prevailed in April. Storms and winds, excessive rains, heavy snows in the mountains, and skies overcast for days at a time, gave a March-like aspect to the entire

month. Still there were no severe cold waves to hurt fruit prospects in the interior, while in the west the buds were not out until the close of the month. Farm work was still somewhat behind, but crops were in a good stage of development when the month closed.

May was noted for marked temperature changes within short intervals of time, warm days and cool nights being the rule. Light frosts were observed over extensive areas on the 4th, 6th, and 12th to 14th; they were without damage, but prevailing low temperatures retarded crop growth. The rainfall was irregular in its distribution, although generally sufficient. Thunderstorms were frequent, often accompanied by wind gusts that temporarily flattened the growing grain, which by this time had become quite heavy in straw. All crops did well. Early strawberries and June peas were being marketed during the final ten days of the month.

June temperatures were pleasant until at the close, when a severe hot wave caused suffering and death to men and animals, and was somewhat damaging to crops. The rainfall was considerably in excess at a few points, but for the section as a whole there was a deficiency in moisture. Barring the damage by the closing hot spell, the month was favorable to crops. Harvest began in the fields of rye, wheat, and barley about the 20th, and progressed rapidly thereafter. The straw yield was heavy, but the grain was unsatisfactory in amount and quality. Oats were injured some by rust. Of the fruit crops, peaches alone were promising at the close of the month, but cherries had already given abundant returns. Strawberry and pea shipments ceased after the 20th, the season having been very satisfactory.

The hot wave of the latter part of June continued with unabated severity until the 7th of July. Brief hot periods occurred later in the month, but as a whole the temperatures were moderate for the time of year. Precipitation was again unequally distributed, although generally sufficient for crop requirements. Thunderstorms were frequent, and there was considerable loss by lightning. The rains were hurtful during the harvesting period, but were of benefit to growing crops. Oats were short in all districts. Hay yields showed improvement. Small shipments of peaches began during the month. Most truck was good in yields, the exceptions being potatoes, tomatoes and melons.

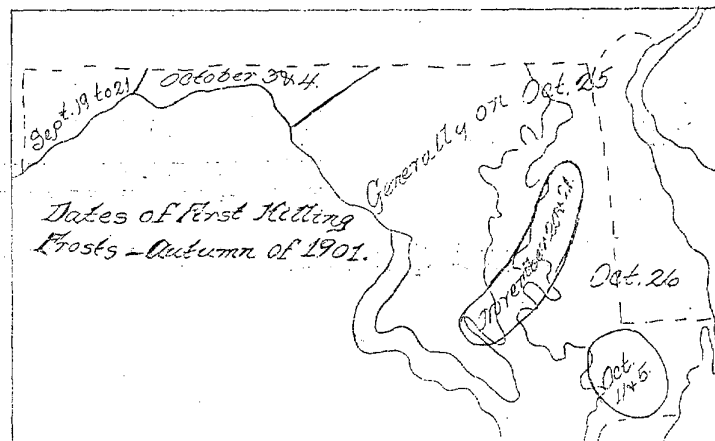
About normal temperatures and an excess in rainfall prevailed in August. Conditions were favorable for growth, but the rains interfered with threshing, which was still unfinished in many places at the close of the month. Buckwheat was saved in good condition, with satisfactory yields. Corn continued very promising, and in the southern counties some fodder was pulled. Peaches gave poor to good returns, according to locality. Apples were very scarce. A pest of caterpillars prevailed for awhile during the month, invading fruit, shade, and even forest growth.

Indian summer conditions prevailed during much of September, which was a delightful month throughout, with the exception of a rather severe storm on the 15th in some of the interior counties. Much corn was still green at the close of the month, but a splendid crop seemed assured. Owing to dry

A careful summary of crop results, based on more than one hundred special reports, shows that wheat was below an average yield, and only fair in quality. Rye was short in amount, but the quality was fair to good. Oats were a poor crop, and of inferior grade. The early cuttings of hay were short, but the late was better; the entire crop was somewhat below average yield, but the quality fair to good. Corn was a magnificent crop; there were very few reports of inferior grade, and these were from some of the more southern localities, where, in a few instances, the yields were also a little below average. A few apple orchards gave fair yields, but the crop as a whole was very disappointing, and many complaints of knotty and otherwise imperfect fruit were received. Peaches were variable in quality and yield; the yield was generally poor to average, but the grade on the whole was fair. The season was very favorable for tobacco; there were no deficient yields, and the entire crop was secured in excellent condition.

The annual mean (entire territory),  $52.6^{\circ}$ , was  $1.1^{\circ}$  below the normal.

The maximum wind velocity for the year was 39 miles per hour from the northwest, at Washington, on January 25th.



## Climatological data for the year 1901.

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.																					
Boettcherville	Allegany	780	11	52.3	103	July 2	-2	Dec. 22	11	45.38	9.13	Aug.	0.21	Oct.	18.5	101	115	64	86	W.	
Boonsboro	Washington	560	4	52.4	101	July 1	-4	Dec. 21†	4	45.03	6.64	Aug.	0.57	Feb.	13.5	86	215	64	86	W.	
Chewsville	Washington	530	4	51.0	100	July 1	-5	Dec. 21†	4	42.27	7.12	May	0.57	Feb.	18.1	100	140	174	51	SW.	
Clear Spring	Washington	500	4	51.0	96	July 2	-5	Dec. 21†	4	42.27	7.12	May	0.57	Feb.	18.1	107	100	174	51	NW.	
Cumberland	Allegany	722	43	45.7	94	July 1	-13	Dec. 20	31	44.21	6.22	Aug.	0.30	Oct.	126.5	109	100	174	51	SW.	
Dear Park	Garrett	2,457	9	45.7	94	July 1	-13	Dec. 20	9	44.21	6.22	Jan.	0.87	Oct.	126.5	109	100	174	51	SW.	
Frostburg	Allegany	2,200	4	45.7	96	July 1	-13	Dec. 20	4	44.90	9.56	May	0.54	Oct.	69.2	115	88	116	151	SW.	
Grantsville	Garrett	2,400	8	47.1	93	July 1	-8	Dec. 20	8	44.90	8.32	May	0.76	Oct.	69.2	115	88	116	151	SW.	
GreenSpring Furnace	Washington	450	9	52.0	100	July 1	-3	Dec. 22	9	46.48	7.63	May	0.60	Feb.	9.4	101	205	67	93	E.	
Guard	Garrett	1,412	1	.....	.....	.....	-6	Dec. 20	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	SW.	
Hagerstown	Washington	552	8	.....	102	July 1	.....	Dec. 22	8	.....	.....	.....	0.58	Feb.	.....	.....	.....	.....	.....	SW.	
Hancock	Washington	455	5	52.0	106	July 1	-2	Dec. 22	4	45.95	7.83	Aug.	0.43	Feb.	8.0	92	106	161	97	W.	
Sharpsburg	Washington	420	8	55.0	105	July 1	-1	Dec. 22	8	45.49	6.98	Dec.	0.63	Feb.	19.8	109	189 <sup>b</sup>	97 <sup>b</sup>	77 <sup>b</sup>	NW.	
Smithsburg A	Washington	750	5	51.9	100	July 1	0	Feb. 1	5	40.63	6.44	Apr.	0.71	Oct.	13.0	95	144 <sup>b</sup>	131 <sup>b</sup>	88 <sup>b</sup>	S.	
Smithsburg B	Washington	900	4	.....	100	July 1	2	Dec. 21	4	.....	8.71	Dec.	1.12	Feb.	21.3	.....	.....	.....	.....	SW.	
Sunnyside	Garrett	2,440	9	45.3	96	July 1	-15	Dec. 22	9	61.01	8.57	Dec.	0.98	Oct.	125.3	169	141	63	161	NW.	
Westernport	Allegany	1,000	8	49.0	98	July 1	1	Dec. 20†	8	40.77	7.37	May	0.29	Feb.	17.8	115	.....	.....	.....	NW.	
Entire Section				50.6	106	July 1	-15	Dec. 22		45.89	9.56	May	0.21	Oct.	42.6	118	154	102	109	NW.	
NORTHERN-CEN. MD.																					
Bachman's Valley	Carroll	860	9	.....	98	July 1	0	Feb. 2	9	70.87*	12.04	Aug.	1.11	Feb.	16.0	.....	.....	.....	.....	SW.	
Baltimore	Baltimore	123	36	54.4	103	July 2	11	Dec. 22	5	43.04	7.07	Dec.	0.65	Feb.	9.4	112	122	119	124	W.	
Baltimore J. H. Hos.	Baltimore	112	8	52.7	102	July 1†	11	Dec. 22	5	45.10	8.73	Dec.	0.40	Feb.	.....	107	182	34	149	SW.	
Chase	Baltimore	25	4	51.5	104	July 2	3	Feb. 1†	4	44.59	7.39	Dec.	0.10	Feb.	.....	107	195	84	88	SW.	
Darlington Academy	Harford	339	11	52.2	104	July 2	5	Dec. 22	11	49.38	9.16	July	0.67	Feb.	22.2	77	186 <sup>f</sup>	67	223	79 <sup>f</sup>	NW.
Fallston School	Harford	450	32	52.1	100	July 2	7	Dec. 22	32	52.96	8.43	Aug.	0.80	Feb.	14.4	120	100	67	223	75 <sup>f</sup>	NW.
Frederick	Frederick	275	27	54.3	101	July 1	4	Dec. 22	12	46.48	6.81	Dec.	0.80	Feb.	11.9	115	185	94	86	NW.	
Great Falls	Montgomery	200	11	.....	102	July 2	2	Dec. 22	12	42.76	8.06	Dec.	0.28	Oct.	.....	92	216	0	119	NW.	
Harny	Frederick	.....	3	.....	101	July 2	2	Dec. 22	3	39.17	6.66	Dec.	0.90	Feb.	13.5	68	168	112	85	NW.	
McDonough	Baltimore	500	20	.....	101	July 2	2	Dec. 21	21	.....	.....	.....	0.09	Feb.	12.1	94	203 <sup>a</sup>	83 <sup>a</sup>	75 <sup>a</sup>	NW.	
Mt. St. Mary's College	Frederick	720	36	52.0	99	July 3	6	Dec. 22	33	45.27	7.60	Apr.	0.20	Feb.	12.3	85	.....	.....	.....	NW.	
New Market	Frederick	550	16	52.4	100	July 1	5	Dec. 20†	16	50.14	7.46	Dec.	0.77	Feb.	12.5	109	117	136	112	NW.	
Takoma Park	Montgomery	.....	3	52.6	98	July 2	4	Dec. 22	3	41.09	7.45	Dec.	0.76	Feb.	8.1	126	.....	.....	.....	NW.	
Taneytown	Carroll	490	6	52.1	99	July 2	4	Dec. 22	10	43.54	7.50	July	0.91	Feb.	15.7	98	143	116	106	NW.	
Van Bibber	Harford	100	7	52.7	101	July 2	7	Dec. 22	7	46.38	7.24	Dec.	0.85	Feb.	.....	116	.....	.....	.....	NW.	
Woodstock College	Baltimore	392	31	53.8	100	July 1	4	Dec. 22	31	39.73	9.29	Dec.	0.53	Feb.	13.3	106	158	103	104	NW.	
Entire Section				52.4	104	July 2	0	Feb. 2		46.90	12.04	Aug.	0.69	Feb.	12.9	98	173	90	102	NW.	
SOUTHERN MARYLAND.																					
Annapolis	Anne Arundel	45	29	55.6	105	July 2	10	Dec. 22	25	53.62	10.40	Aug.	1.20	Oct.	6.1	87	.....	.....	.....	SE.	
Charlotte Hall School	St. Marys	107	9	.....	100	July 1	0	Dec. 22	9	.....	.....	.....	0.10	Feb.	.....	.....	.....	.....	.....	NW.	
Cheltenham	Prince George's	225	1	.....	100	July 1	0	Dec. 22	1	.....	6.38	Dec.	1.08	Oct.	.....	.....	.....	.....	.....	SW.	
Distributing Reservoir	Dist. of Columbia	120	11	54.9	100	July 1	7	Dec. 22	10	34.63	6.79	Dec.	0.35	Feb.	.....	89	.....	.....	.....	SW.	
Jewell	Anne Arundel	165	13	54.0	100	July 1	7	Dec. 22	13	43.89	6.80	Apr.	0.55	Feb.	4.5	78	229	65	71	SW.	
Laurel	Prince George's	150	7	52.6	103	July 1	0	Feb. 1	7	49.11	8.48	Dec.	0.62	Feb.	5.0	86	140	132	93	SW.	
Md. Agricultural Coll.	Prince George's	170	11	52.2	102	July 1	2	Dec. 22	11	48.78	6.72	June	0.90	Feb.	6.5	66	.....	.....	.....	SW.	
Receiving Reservoir	Dist. of Columbia	160	11	54.2	102	July 1	0	Dec. 22	10	39.08	7.55	Dec.	0.40	Feb.	8.4	84	.....	.....	.....	NW.	
Solomon's	Calvert	20	10	50.0	99	July 2	14	Dec. 21	10	40.94	7.14	July	0.37	Feb.	8.5	103	103	114	148	NW.	
Washington	Dist. of Columbia	112	31	54.1	102	July 1	7	Dec. 22	31	41.75	7.56	Dec.	0.62	Feb.	8.9	110	148	96	121	NW.	
Entire Section				54.2	105	July 2	0	Feb. 1†		43.87	10.40	Aug.	0.10	Feb.	6.8	90	169	95	101	NW.	
EASTERN MARYLAND.																					
Cambridge	Dorchester	15	4	.....	100	July 1	.....	Jan. 3	4	.....	8.48	July	1.06	Oct.	14.5	.....	.....	.....	.....	NW.	
Chestertown	Kent	80	16	.....	100	July 1†	10	Jan. 3	16	.....	8.48	July	1.06	Oct.	14.5	.....	.....	.....	.....	NW.	
Coleman	Kent	80	3	.....	104	July 2	.....	Jan. 3	4	39.26	7.42	July	0.79	Feb.	9.7	89	.....	.....	.....	NW.	
Denton	Caroline	42	9	.....	105	July 1†	.....	Jan. 3	9	.....	8.48	July	1.06	Oct.	14.5	.....	.....	.....	.....	NW.	
Easton	Talbot	35	11	53.9	99	July 2	9	Dec. 22	11	41.00	6.13	Apr.	0.31	Feb.	8.6	85	202	95	68	SW.	
Pocomoke City	Worcester	37	8	55.8	100	July 1†	7	Feb. 25	8	38.61	5.52	Aug.	0.85	Feb.	7.6	81	.....	.....	.....	SW.	
Princess Anne	Somerset	20	28	54.1	99	July 1	3	Feb. 25	8	48.20	12.05	Aug.	0.89	Feb.	10.6	105	90	195	80	SW.	
Queenstown	Queen Anne	20	4	.....	100	July 1†	10	Jan. 19	4	.....	5.69	Dec.	.....	Feb.	7.0	.....	.....	.....	.....	SW.	
Rock Hall	Kent	25	4	53.7	102	July 2	8	Dec. 22	4	42.15	8.31	July	0.31	Feb.	5.0	114	207	56	102	S.	
Sudlersville	Queen Anne	65	4	54.4	104	July 1†	9	Feb. 1†	4	.....	8.01	July	0.64	Feb.	12.0	72	186 <sup>a</sup>	106 <sup>a</sup>	65 <sup>a</sup>	NW.	
Entire Section				54.4	105	July 1†	3	Feb. 25		42.91	12.05	Aug.	0.22	Feb.	10.0	92	171	110	84	NW.	
DELAWARE.																					
Milford	Kent	20	19	.....	104	July 2	8	Dec. 22	19	.....	5.81	Dec.	0.22	Feb.	.....	.....	.....	.....	.....	NW.	
Millsboro	Sussex	23	9	53.3	100	July 2	1	Feb. 25	9	43.48	7.81	Aug.	0.93	Oct.	6.0	87	193	70	102	NW.	
Newark (Del. Coll.)	Newcastle	136	8	51.6	100	July 2	6	Dec. 22	8	45.78	9.78	Aug.	0.97	Feb.	13.0	86	174	64	107	NW.	
Seaford	Sussex	40	10	54.9	102	July 1	9	Dec. 22	10	36.75	5.29	Aug.	0.82	Feb.	8.0	77	176	56	133	NW.	
Wyoming	Kent	40	2	.....	.....	.....	.....	Dec. 22	3	.....	10.81	July	.....	.....	.....	.....	.....	.....	.....	NW.	
Entire Section				53.7	104	July 2	1	Feb. 25		43.62	10.81	July	0.22	Feb.	8.3	81	184	71	110	NW.	
Entire Territory				52.6	106	July 1	-15	Dec. 22		45.68	12.05	Aug.	0.09	Feb.	18.7	99	166	96	103	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.

\* 11 month's record.

† And other dates also.

<sup>1</sup> Mean of 7 a. m. + 2 p. m. + 2. Superior letters of the alphabet indicate the number of days missing.

Monthly maximum temperatures for the year 1901, 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.
<b>WESTERN MARYLAND.</b>																								
Boettcheville.....	62	9	50	17	80	20	88	30	95	25	99	30	103	2	97	11	92	8	81	12	72	12	70	15
Boonsboro.....	60	16	54	16	75	19	88	30	97	24	99	30	101	1	92	3	87	6	78	19	65	1	65	2
Chewsville.....	59	16	52	16	72	19	83	30	84	24	97	30	100	1	90	4	85	7	82	1	67	1	65	3
Clear Spring.....	59	17	50	17	74	20	80	30	90	1	92	30	96	2	90	4	85	7	80	23	65	1	65	3
Cumberland.....	57	16																						
Deer Park.....	55	8	47	17	69	19	81	30	84	24	89	30	94	1	87	9	83	7	77	1	66	2	64	14
Frostburg.....	57	21	48	16	69	19	82	30	86	24	91	30	96	1	88	9	83	7	76	2				
Grantsville.....	53	9	46	16	68	24	79	29	82	24	89	30	93	1	88	9	84	5	77	1	64	2	64	14
Green Spring Furnace.....	59	16	50	16	71	19	86	30	88	24	95	29	100	1	94	3	88	15	80	2	65	1	66	14
Guard.....																					64	11	64	13
Hagerstown.....	60	16	55	16	74	19	88	30	90	24	99	30	102	1	95	3								
Hancock.....	61	16	56	16	77	19	90	29	92	24	102	30	106	1	96	10	92	5	82	22	69	1	68	14
Sharpsburg.....	57	16	69	16	81	24	87	29	91	24	102	29	105	1	98	21	94	6	80	2	67	1	67	14
Smithsburg A.....	58	16	54	16	74	19	85	30	86	24	96	30	100	1	95	11	89	15	80	23	65	1	65	2
Smithsburg B.....	58	16	53	16	73	19	85	30	87	24	96	30	100	1	91	3	87	7	78	22	65	1	64	14
Sunnyside.....	54	9	45	16	76	24	80	30	82	24	90	30	96	1	90	10	84	7	78	8	69	3	65	14
Westernport.....	53	16	50	16	70	19	84	30	87	24	95	5	98	1	92	10	85	7	76	2	65	11	64	14
<b>NORTHERN-CENTRAL MD.</b>																								
Bachman's Valley.....	55	16	44	16	70	19	83	30	83	24	96	29	98	1	89	10	87	1	75	23			60	14
Baltimore.....	64	16	49	18	74	19	86	30	83	5	99	30	103	2	93	10	92	15	81	23	65	2	65	2
Baltimore, J. H. Hosp'l.....	63	16	49	16	74	19	86	30	83	5	99	30	102	1	93	9	92	15	82	23	65	2	67	13
Chase.....	56	16	43	26	67	19	73	29	77	23	96	30	104	2	91	12	90	15	77	22	65	2	59	14
Darlington Academy.....	56	16	46	16	72	19	85	30	84	23	100	30	104	2	89	10	88	15	79	23	68	8	66	14
Fallston School.....	62	16	47	16	72	19	84	30	80	23	97	30	100	2	89	10	89	15	79	23	63	1	61	2
Frederick.....	59	16	50	16	73	19	86	30	85	23	98	30	101	1	91	3	89	15	79	23	65	2	66	14
Great Hall.....	63	17	55	17	74	20	82	30	82	1	97	30	102	2	92	11	92	16	81	24	65	1	66	15
McDonogh.....	63	16	43	18	72	19	84	30	82	1	98	30	101	2	90	11	90	15	82	13	65	1	66	15
Mt. St. Mary's College.....	58	16	45	17	71	19	86	30	84	24	92	30	99	3	89	11	87	15	79	20	65	1	65	3
New Market.....	60	16	51	16	74	19	85	30	85	24	95	30	100	1	89	10	88	15	79	23	63	1	64	2
St. Charles College.....	63	16																						
Takoma Park.....	68	15	55	17	77	20	82	30	88	1	93	30	98	2	89	10	90	16	83	23	69	1	66	14
Taneytown.....	55	16	54	17	75	19	86	30	86	24	95	30	99	2	89	10	89	15	79	13	64	1	65	14
Van Bibber.....	53	16	47	18	69	19	75	29	80	5	97	30	101	2	89	3	88	13	78	22	62	1	65	14
Western Md. College.....	60	16	47	16	73	19	84	30	83	24	95	30												
Woodstock College.....	62	16	51	16	73	19	85	30	85	24	98	30	100	1	89	10	89	15	79	23	65	1	66	15
<b>SOUTHERN MARYLAND.</b>																								
Annapolis.....	61	16	52	18	70	19	75	30	85	5	96	30	105	2	93	11	95	15	82	23	66	2	60	9
Charlotte Hall School.....	68	9	61	16	78	19	82	30	88	24									83	23	74	1	66	14
Cheltenham.....									84	24	97	30	100	1	90	9	93	15	85	23	72	1	66	2
Jewell.....	65	9	56	16	75	19	83	30	81	1	95	30	100	1	88	10	92	15	82	23	66	1	65	2
Laurel.....	64	9	55	16	77	19	88	30	89	24	99	30	103	1	92	9	91	15	84	23	72	1	66	14
Md. Agricultural Coll.....	64	9	57	16	76	19	84	30	85	24	99	30	102	1	97	8	90	15	83	23	69	1	67	14
Prince Fredericktown.....	63	9	56	16	74	19	83	30	86	24														
Solomon's.....	67	9	56	16	73	19	81	30	85	1	94	29	99	2	92	10	91	15	80	23	72	1	64	2
Washington, D. C.....	66	16	57	16	75	19	87	30	84	24	98	30	102	1	91	10	92	15	85	23	69	1	66	14
<b>EASTERN MARYLAND.</b>																								
Cambridge.....											96	30	100	1	90	16	91	15	79	23	65	2	67	14
Chestertown.....	58	16	49	16	70	19	77	30	79	23			100	1	88	11	86	7	76	23	63	1	74	14
Coleman.....											98	30	104	2										
Denton.....	62	10	52	16	72	19	82	30	82	5	100	30	105	1	98	23								
Easton.....	60	16	53	16	77	19	79	30	80	5	94	30	99	2	91	9	91	15	80	10	65	1	68	14
Pocomoke City.....	63	11	53	4	72	19	77	30	82	1	96	30	100	1	93	11	90	15	81	13	73	1	66	9
Princess Anne.....	62	11	54	16	74	19	77	30	81	1	94	30	99	1	88	4	89	15	79	13	72	1	67	14
Queenstown.....	59	16			74	19	79	30	79	22	97	30	100	1	91	11	90	15	78	23	65	2	68	14
Rock Hall.....	60	10	56	4	73	19	78	30	79	5	97	30	102	2	91	20	89	15	79	23	65	2	66	14
Sudlersville.....	63	16	55	16	78	19	86	30	86	24	102	30	104	1	94	9	93	15	81	10	67	1	70	14
<b>DELAWARE.</b>																								
Milford.....	68	17	51	28			81	30	86	5	101	30	104	2	95	11	94	15	82	23	76	1	69	14
Millsboro.....	64	17	52	17	74	20	73	30	84	1	94	13	100	2	94	22	91	16	81	1	72	2	66	15
Newark (Del. College).....	56	16	46	16	70	19	81	30	82	24	97	30	100	2	88	3	88	15	78	23	62	2	66	14
Seaford.....	60	16	50	16	73	19	81	30	85	24	100	30	102	1	92	10	91	15	79	23	70	1	68	14

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.

TABLE OF KILLING FROSTS.

Stations.	Last in spring.	First in autumn.	Stations.	Last in spring.	First in autumn.	Stations.	Last in spring.	First in autumn.
Boonsboro .....	April 16	Oct. 4	Fallston .....	April 1	Oct. 25	Pocomoke City.....		Oct. 5
Baltimore.....		Nov. 11	Frederick.....	May 18		Queenstown.....	Mch. 17	Oct. 23
Chewsville.....	Oct. 3		Grantsville.....			Rock Hall.....		Oct. 7
Clear Spring.....	Oct. 25		Green Spring Furnace.....	April 12	Oct. 4	Seaford, Del.....		Oct. 26
Chase.....	Oct. 4		Hancock.....		Oct. 4	Sharpsburg.....		Oct. 4
Charlotte Hall.....	Oct. 16		Harney.....		Oct. 3	Smithsburg.....		Oct. 23
Cheltenham.....	Oct. 25		Jewell.....		Oct. 25	Sunnyside.....	April 21	Sept. 21
Cambridge.....	Nov. 9		Laurel.....		Oct. 18	Solomons.....	Mch. 18	Nov. 20
Chestertown.....	Nov. 21		Millsboro, Del.....	April 30	Oct. 26	Taneytown.....	April 29	Oct. 7
Colona.....	Oct. 25		Newark (Del. Col.).....		Oct. 19	Van Bibber.....		Oct. 7
Deer Park.....	Sept. 19		New Market.....		Oct. 25	Woodstock College... ..		Oct. 8
Frostburg.....	Sept. 20		Princess Anne.....	April 29	Oct. 4	Washington, D. C.....		Oct. 7

Monthly minimum temperatures for the year 1901, 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.
<b>WESTERN MARYLAND.</b>																								
Bootherville.....	4	20	6	7	3	6	27	12	37	5	40	10	53	9	53	2	38	20	27	25	15	22	— 2	22
Boonsboro.....	9	20	7	1	5	6	28	12	40	4	44	10	58	9	57	1	40	26	29	25	12	28	— 4	21
Chewsville.....	8	20	2	1	10	7	27	12	36	4	40	9	54	10	54	3	35	22	25	25				
Clear Spring.....	8	20	7	7	5	6	33	1	41	17	40	8	57	26	57	1	41	25	30	25	18	28	— 5	22
Cumberland.....	13	4																						
Deer Park.....	— 4	20	— 6	23	— 6	6	15	12	25	4	32	10	46	9	44	8	29	22	16	24	9	22	— 13	20
Frostburg.....	2	20	0	7	3	7	24	12	36	14	38	9	52	9	51	2	35	20	28	5				
Grantsville.....	2	20	2	23	— 3	6	25	1	33	4	35	10	48	9	48	2	32	20	25	25	14	28	— 8	20
Green Spring Furnace.	8	20	6	7	6	6	28	12	38	14	42	10	57	9	56	2	38	26	29	25	16	27	— 3	22
Guard.....																					11	29	— 6	20
Hagerstown.....	8	20	7	1	6	6	30	12	39	4	40	9	58	9	57	2								
Hancock.....	4	4	3	7	1	7	25	12	35	14	40	10	54	9	54	2	35	20	24	26	14	22	— 2	22
Sharpsburg.....	11	4	10	7	8	6	31	1	41	30	47	10	64	10	60	23	41	26	29	7	13	29	— 1	22
Smithsburg A.....	8	20	0	1	5	6	26	12	35	4	41	10	55	9	53	2	36	21	25	25	14	20	— 3	22
Smithsburg B.....	8	20	4	14	4	6	26	1	41	4	43	9	58	9	57	2	42	19	29	25	17	28	— 2	21
Sunnyside.....	— 3	3	— 5	13	— 9	6	17	12	28	4	33	10	40	7	42	11	29	21	17	25	4	29	— 15	22
Westernport.....	6	19	8	7	3	5	25	11	36	3	39	9	52	9	51	2	37	21	26	25	16	22	— 1	20
<b>NORTHERN-CENTRAL MD.</b>																								
Bachman's Valley.....	8	20	0	2	8	6	30	1	38	14	41	10	59	10	55	30	36	26	28	26			11	22
Baltimore.....	14	20	14	13	6	37	1	47	6	52	1	64	26	61	30	46	26	37	26	24	20	2	22	
Baltimore J. H. Hosp'l.	14	4	11	1	8	6	32	1	43	6	41	5	59	27	57	30	43	21	33	25	20	20	8	22
Chase.....	5	19	3	1	9	7	32	27	36	14	41	9	62	6	58	30	43	21	26	25	9	20	3	22
Darlington Academy.....	7	20	8	1	9	7	35	1	41	6	48	1	61	26	56	30	41	26	30	26	18	29	5	22
Fallston School.....	8	20	8	1	10	7	33	1	41	6	45	9	60	27	56	30	41	26	31	25	20	29	7	22
Frederick.....	13	20	6	23	10	6	33	12	42	14	47	10	63	9	59	2	42	26	32	26	20	20	4	22
Great Falls.....	8	4	7	1	7	7	33	16	35	14	49	9			59	29	43	21	28	26	17	20	2	22
McDonogh.....	5	19	6	2	8	6	32	10	40	13	46	9	61	26	55	29	39	25	30	25	19	19	2	21
Mt. St. Mary's College..	10	20	10	7	7	6	34	1	45	14	49	9	59	8	59	29	43	26	33	26	20	28	6	22
New Market.....	8	20	6	1	8	6	32	1	41	4	42	9	61	10	58	6	40	26	31	25	19	20	5	20
St. Charles College.....	7	20																						
Takoma Park.....	12	4	10	1	10	7	34	1	43	14	48	9	63	27	59	29	42	26	32	25	19	20	4	22
Taneytown.....	8	20	7	2	9	6	31	2	41	14	45	10	62	27	56	26	38	26	31	25	18	20	4	22
Van Bibber.....	9	19	11	2	11	6	37	3	43	14	50	1	63	26	58	30	44	22	32	25	21	20	7	22
Western Md. College....	7	20	8	1	7	6	30	1	41	6	44	17												
Woodstock College.....	9	20	8	1	10	6	26	3	41	14	47	10	63	27	59	29	40	26	32	26	18	20	4	22
<b>SOUTHERN MARYLAND.</b>																								
Annapolis.....	18	4	12	7	11	6	29	29	46	14	52	17	67	8	64	8	47	21	35	25	23	28	10	22
Charlotte Hall School..	8	20	10	25	18	6	29	1	39	15									30	26	19	20	2	22
Cheltenham.....									39	14	48	1	64	8	57	30	42	26	30	26	17	20	0	22
Jewell.....	10	20	14	1	11	7	34	5	41	7	51	1	65	8	60	30	46	26	34	25	19	29	7	22
Laurel.....	7	20	0	1	7	6	30	20	37	14	43	11	63	10	55	30	37	21	26	26	14	20	3	22
Md. Agricultural Coll..	6	19	7	1	6	6	31	27	36	13	47	8	61	10	55	31	37	26	25	25	14	20	2	22
Prince Fredericktown..	9	20	12	24	9	7	34	1	43	7	50	1												
Solomon's.....	17	20	18	13	15	6	38	1	47	7	6	9	66	27	66	30	52	21	40	25	25	28	14	21
Washington, D. C.....	13	4	13	2	11	6	36	1	42	14	52	1	64	27	59	30	43	26	32	26	20	20	7	22
<b>EASTERN MARYLAND.</b>																								
Cambridge.....											52	10	67	27	65	2	54	22	40	26	27	21	25	20
Chestertown.....	10	3	12	6	14	6	35	4	43	5			63	26	57	29	44	25	35	25	14	19	11	21
Denton.....	9	20	12	25	11	7	35	5	40	7	50	8	62	27	55	28								
Easton.....	11	20	14	25	14	7	35	12	43	5	50	1	66	8	55	30	45	22	32	26	21	21	9	22
Pocomoke City.....	14	20	7	25	13	7	34	13	43	7	54	10	65	27	60	30	49	22	32	26	17	29	10	22
Princess Anne.....	10	20	3	25	10	6	30	12	38	7	51	9	64	27	57	30	45	22	29	26	17	21	7	22
Queenstown.....	10	19					38	11	43	5	54	9	64	26	57	29	45	25	33	25	21	20	12	21
Rock Hall.....	11	20	11	2	12	7	36	29	41	14	48	1	64	27	54	30	40	25	29	26	17	21	8	22
Sudlersville.....	10	20	9	1	11	7	32	4	40	7	47	1	63	27	60	2	40	25	32	26	20	20	9	22
<b>DELAWARE.</b>																								
Milford.....	11	19	17	1			33	29	41	7	53	8	63	10	58	30	45	22	31	26	19	29	8	22
Millsboro.....	6	20	1	24	10	7	31	12	38	7	50	9	65	8	57	30	45	22	29	26	17	21	7	22
Newark (Del. College)..	8	20	7	1	8	7	35	12	39	7	48	1	59	27	53	30	42	26	30	26	19	29	6	22
Seaford.....	11	20	12	24	12	7	36	12	44	7	53	1	66	27	59	30	45	22	34	26	20	29	9	22

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 1901, with departures from the normal.

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
Stations.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
WESTERN MARYLAND.																										
Buettcherville	1.60	-0.78	0.68	-2.11	3.53	+0.33	5.26	+2.79	7.45	+3.21	3.26	-0.56	3.08	-0.01	9.13	+6.73	2.44	-0.22	0.21	-2.05	2.62	+0.11	6.12	+3.72	45.38	+11.16
Boonsboro	2.01	0.57	3.60	.....	5.16	.....	5.73	.....	6.01	.....	3.16	.....	4.65	+1.57	6.64	.....	2.03	.....	1.54	-1.05	3.17	.....	6.49	.....	45.03	.....
Chewsville	2.16	0.63	3.92	.....	5.73	.....	5.71	.....	5.71	.....	4.43	.....	3.77	+1.35	4.33	-0.03	2.51	-0.04	0.89	-2.06	2.30	-0.52	5.83	+3.28	42.27	.....
Clear Spring	1.69	0.57	.....	.....	5.90	.....	5.72	.....	5.72	.....	3.93	.....	3.47	+0.06	5.88	+1.60	3.37	+1.47	0.85	.....	2.59	.....	6.14	+3.29	.....	.....
Cummersburg	1.14	-1.13	.....	.....	2.78	-0.30	4.54	+2.28	6.31	+2.84	2.89	-0.65	2.70	-0.58	7.29	+4.26	2.87	+0.14	0.30	-2.12	2.12	-0.28	6.32	+4.11	.....	.....
Deer Park	6.22	+3.25	1.80	-1.21	2.03	-1.57	6.04	+3.49	5.40	+0.91	3.88	-0.41	43.33	-2.29	4.74	+1.28	11.70	-0.70	0.87	-1.01	13.75	+0.91	4.39	+1.26	44.21	+ 3.88
Frostburg	2.36	.....	1.25	.....	4.26	.....	7.97	.....	9.56	.....	6.02	+2.40	5.49	+2.03	5.02	+1.83	2.83	+0.13	0.54	-3.33	.....	.....	6.57	+3.83	44.90	+ 1.40
Grantsville	2.52	-1.04	0.80	-3.04	4.99	+0.31	6.08	+3.28	8.37	+4.56	2.79	-1.11	2.63	-3.63	4.34	+1.22	2.24	-0.43	0.70	-1.60	2.56	-0.89	6.87	+3.83	44.90	+ 1.40
Green Spring Furnace	1.63	-0.81	0.60	-2.64	3.71	+0.09	6.29	+4.38	7.03	+3.78	3.15	+0.18	4.48	+1.08	7.42	+3.42	2.38	-0.40	0.77	-2.05	3.13	+0.26	5.29	+3.11	46.48	+11.02
Guard	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
H.....	1.82	-0.75	0.58	-3.25	4.06	-0.18	4.60	+3.29	5.47	+2.92	3.89	+0.02	3.51	-1.03	5.23	+2.46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hancock	1.44	.....	0.43	.....	3.28	.....	6.07	.....	4.87	.....	3.94	+0.11	5.92	+3.17	7.83	+4.03	2.88	+1.17	0.91	-2.91	2.69	+0.23	5.69	+3.38	45.95	.....
Shirleysburg	2.29	-0.54	0.63	-2.80	3.75	+0.61	6.02	+4.13	5.59	+1.60	1.80	-1.40	4.73	+1.19	5.34	+2.51	3.02	+0.71	1.42	-0.89	3.84	+1.26	6.08	+4.71	45.49	+11.03
Smithsburg A	1.90	-0.10	.....	.....	3.39	.....	6.44	+5.08	5.37	+1.13	3.46	+0.70	2.53	-0.34	3.95	-0.82	2.72	+1.23	0.71	-1.93	3.23	.....	6.09	+3.21	40.65	.....
Smithsburg B	2.69	.....	1.12	.....	7.77	.....	6.50	.....	3.34	.....	3.34	.....	3.42	+0.43	4.10	-1.39	3.70	.....	1.37	-2.30	4.39	+0.93	8.71	+5.23	.....	.....
Sunnyside	5.14	+0.71	2.39	-2.81	4.93	-0.35	7.70	+3.77	6.93	+1.78	5.72	+0.69	5.42	-0.32	5.17	+1.53	2.85	-0.25	0.98	-2.08	5.36	+0.80	8.57	+4.49	61.01	+ 7.96
Westernport	2.31	-0.06	0.29	-2.42	3.24	+0.12	5.68	+3.48	7.37	+3.85	3.90	+0.84	2.11	-1.04	5.59	+2.82	2.27	-0.16	0.33	-1.85	1.76	-0.78	5.92	+4.12	40.77	+ 8.32
Average	2.43	-0.18	0.88	-2.54	3.65	-0.04	6.08	+3.60	6.60	+2.66	3.72	+0.06	3.83	+0.00	5.75	+2.14	2.66	+0.20	0.83	-2.00	3.10	+0.18	6.33	+3.67	45.89	+ 7.81
NORTHERN-CENTRAL MD.																										
Bachman's Valley	3.69	+0.93	1.11	-3.66	6.99	+2.41	5.93	+2.51	7.47	+4.28	5.10	+1.79	8.90	+5.22	12.04	+8.27	6.46	+2.57	2.00	-1.16	.....	.....	11.18	+7.95	.....	.....
Baltimore	2.45	-0.88	0.68	-2.85	3.56	-0.54	5.53	+2.10	3.07	-0.11	0.90	-3.12	6.18	+1.48	6.73	+2.03	2.50	-1.38	1.52	-1.46	2.26	-0.77	7.07	+3.92	43.04	- 0.91
Baltimore, J. H. Hosp'l.	2.60	-0.33	0.40	-4.79	1.13	-2.43	7.05	+4.40	3.05	-0.17	0.70	-1.94	7.10	+5.57	7.14	+2.40	2.77	-1.32	1.03	-1.57	2.15	-0.77	7.07	+3.92	43.04	- 0.91
Chase	2.23	.....	0.10	.....	4.81	.....	5.91	.....	2.95	.....	0.83	.....	6.43	+3.40	5.29	+1.13	4.49	0.00	0.53	-2.55	3.68	+0.60	7.39	+5.07	44.56	+ 2.23
Darlington Academy	2.75	-0.30	0.67	-2.98	4.21	+0.94	4.83	+1.86	2.62	-1.60	1.31	-1.95	9.10	+5.07	7.39	+3.53	3.54	-0.28	1.20	-1.79	3.29	-0.21	8.41	+5.86	49.38	+ 8.14
Frederick	2.52	-1.14	0.80	-3.39	4.68	+0.39	5.60	+2.34	2.88	-1.34	1.70	-2.22	7.58	+3.22	8.43	+3.58	5.36	+0.90	1.89	-1.58	3.56	-0.50	8.14	+4.81	52.95	+ 5.14
Frederick School	2.14	-0.90	0.80	-2.35	4.34	+1.23	5.88	+2.55	4.07	+0.23	6.04	+1.95	3.83	+0.19	5.36	+2.30	3.36	-0.04	1.22	-1.31	2.71	-0.18	6.81	+3.95	46.48	+ 7.82
Great Falls	2.43	-0.49	0.49	-2.77	2.95	-0.10	5.99	+3.51	3.82	.....	2.47	-0.00	6.05	+2.43	5.55	+2.00	2.49	-0.70	0.28	-1.81	2.18	-0.58	8.06	+5.43	42.76	+ 9.21
Harney	2.30	.....	0.60	.....	5.20	.....	3.30	.....	3.78	.....	2.69	.....	4.30	.....	3.74	.....	3.16	.....	1.10	.....	2.00	.....	6.66	.....	.....	.....
McDonough	2.85	-0.10	0.09	-3.12	1.90	-1.77	5.18	+3.02	5.12	+1.72	3.23	-1.59	6.45	+0.44	3.23	0.00	3.13	-0.64	1.22	-1.47	2.43	-0.52	6.39	+3.42	45.27	+ 2.39
St. Mary's College	3.10	+0.04	0.20	-3.10	5.40	+1.38	7.60	+4.63	6.10	+1.54	3.20	-0.60	3.10	-0.33	3.80	+0.20	2.11	-1.52	1.21	-2.51	3.05	-0.76	6.39	+3.42	45.27	+ 2.39
New Market	2.71	+0.07	0.77	-2.68	3.15	-0.62	5.47	+2.34	3.85	+0.14	4.68	+1.26	6.80	+2.58	7.36	+3.33	3.40	-0.35	1.80	-0.94	2.68	-1.58	7.40	+4.99	50.14	+ 8.54
Takoma Park	3.57	.....	0.70	.....	3.32	.....	7.05	.....	4.01	.....	5.85	.....	6.68	.....	4.70	.....	3.57	.....	1.24	.....	2.89	.....	7.45	.....	51.00	.....
Taneytown	2.08	+0.22	0.91	-2.82	4.42	+1.01	3.73	+0.73	3.19	-1.33	2.73	-0.49	7.50	+2.50	5.90	+2.01	3.75	+0.40	0.94	-2.10	2.14	-1.79	5.62	+2.66	43.54	+ 1.62
Van Bibber	2.28	-0.40	0.85	-3.92	4.54	+0.28	5.85	+3.30	3.29	-0.87	1.28	-1.35	6.80	+2.89	5.40	+0.20	4.41	+0.04	1.70	-1.77	2.14	-1.12	7.24	+4.51	46.38	+ 1.82
Western Md. College	2.87	+0.12	0.90	-3.18	3.50	-0.30	3.74	+1.03	3.51	-0.34	2.47	.....	6.80	+2.89	5.40	+0.20	4.41	+0.04	1.70	-1.77	2.14	-1.12	7.24	+4.51	46.38	+ 1.82
Woodstock College	2.89	-0.52	0.53	-2.98	1.91	-2.07	5.04	+2.09	3.50	-0.55	1.60	-1.94	4.93	+1.32	4.37	+0.28	2.03	-1.03	0.81	-2.49	2.83	-0.39	9.29	+6.66	39.73	+ 2.22
Average	2.71	-0.27	0.64	-3.18	3.89	-0.02	5.51	+2.60	3.97	-0.01	2.70	-0.79	6.24	+2.43	6.02	+2.42	3.54	-0.28	1.27	-1.75	2.68	-0.73	7.73	+5.02	46.90	+ 5.44
SOUTHERN MARYLAND.																										
Annapolis	3.30	+0.08	1.50	-2.49	3.76	-0.56	7.48	+3.75	4.27	-0.25	1.85	-2.12	6.80	+2.19	10.40	+6.02	4.50	+0.64	1.20	-2.60	2.41	-1.76	6.15	+2.87	53.62	+ 5.77
Charlotte Hall School	3.43	+0.45	0.10	-5.62	2.40	-0.70	7.08	+3.57	4.74	+0.74	.....	.....	.....	.....	.....	.....	.....	.....	0.98	-2.80	1.53	-0.44	6.10	+4.10	.....	.....
Cheltenham	.....	.....	.....	.....	.....	.....	.....	.....	2.50	.....	3.32	.....	5.39	.....	5.22	.....	2.83	.....	1.68	.....	2.03	.....	6.38	.....	.....	.....
District of Reservoir, D.C.	2.38	-0.18	0.35	-3.10	2.09	-1.15	5.51	+2.87	2.17	-1.45	2.74	+0.34	3.97	+1.45	3.85	+1.16	1.83	-0.91	0.84	-1.15	2.15	-0.58	6.79	+4.06	34.65	+ 0.41
Jewell	3.04	+0.24	0.62	-3.13	3.52	-1.02	6.80	+3.21	2.35	-2.24	4.17	+0.40	5.53	+1.05	5.08	+1.42	2.72	-1.27	1.34	-2.37	3.17	+0.17	5.52	+2.71	43.89	- 2.56
Laurel	3.02	+0.40	0.62	-3.07	3.50	+0.10	6.13	+3.43	4.08	+0.73	3.17	-0.53	7.49	+1.03	4.36	+0.83	2.98	-0.33	1.33	-1.83	3.68	+1.24	6.48	+6.19	41.11	+ 8.99
Md. Agricultural Coll.	1.75	-1.34	0.90	-3.73	3.53	+0.41	6.47	+2.71	4.17	-0.30	0.70	+2.82	5.74	+1.47	4.93	+1.50	3.69	+0.57	1.47	-1.12	2.78	-0.78	6.70	+4.59	48.78	+ 6.80
Prince Fredericktown	2.99	-0.25	0.47	-2.85	3.83	.....	6.47	.....	2.00	.....	2.00	.....	2.00	.....	2.00	.....	2.00	.....	2.00	.....	2.00	.....	2.00	.....	2.00	.....
Reeving Reservoir, D.C.	3.02	-0.25	0.40	-2.85	3.83	+0.41	6.47	+2.71	4.17	-0.30	0.70	+2.82	5.74	+1.47	4.93	+1.50	3.69	+0.57	1.47	-1.12	2.78	-0.78				

## Executive Operations of the Year.

The year closed with sixty voluntary stations in active operation. Ellicott City was the only one discontinued during the twelve months. After the death of Mr. Howard Shriver the temperature observations at Cumberland ceased, but rainfall reports still continue. A rainfall station was established at Carmichael in March, and was transferred to Longwoods in May upon the removal of the observer to the latter place. A fully equipped voluntary station was established at Cheltenham in April. Rainfall reports were begun at Colora in September, by Mr. Lloyd Balderston, who was one of the earlier corps of observers that reported for the Meteorologist Esq. Guard was equipped as a point of temperature and rainfall observation in October. The observers that had charge of the work last year resigned at Cambridge, Hagerstown, McDonogh, Sharpsburg, Smithburg (b), and Woodstock, but competent successors were obtained in each instance. The names of those now serving will be found in the later monthly bulletins. The issue of instrument shelters was continued during the year until all stations were supplied.

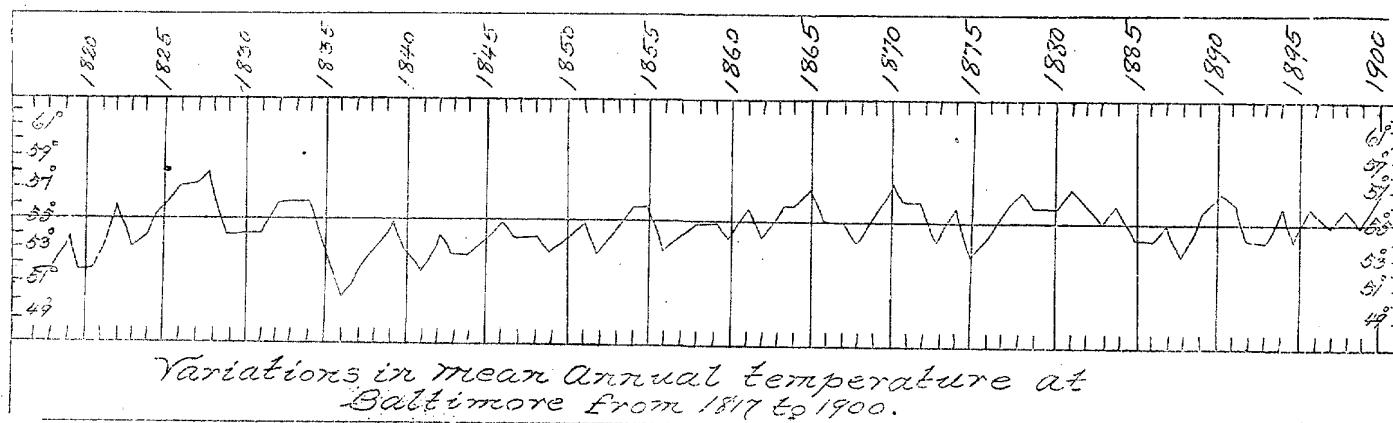
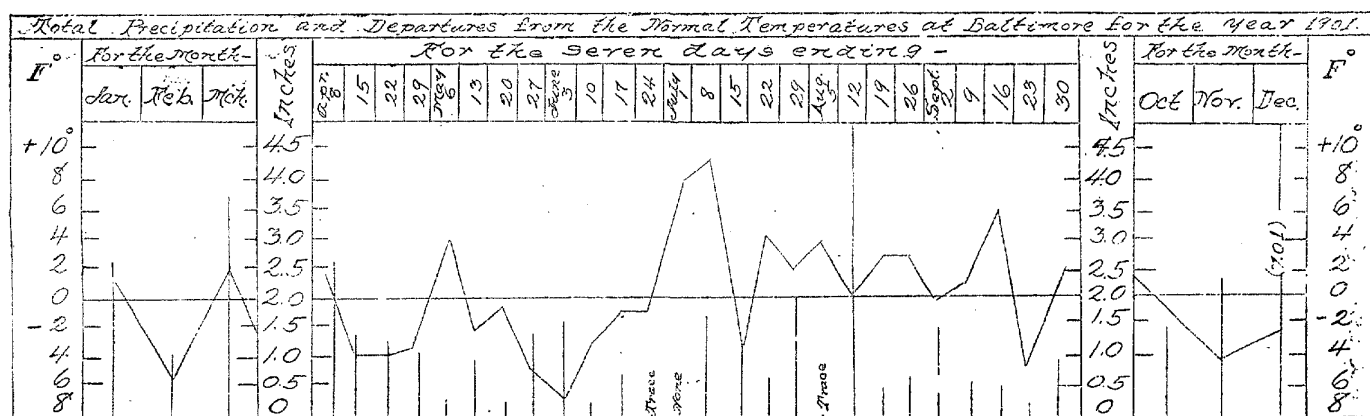
The system of forecast distribution by mail was extended during the year as opportunities offered, the principal expansion being along the newly opened routes of rural free delivery. The centers of distribution established during the period were, Taneytown (restored), Centerville, Delmar, Del., Easton,

Princess Anne and Whaleyville, while the service was greatly enlarged at a number of centers previously in operation.

The storm-warning displays for the Section have been improved by the establishment of a station at Cove Point, displaying day warnings only, and by the erection of one of the new steel towers at Baltimore. The voluntary storm-warning station at Drum Point was discontinued, but the one at Solomon's answers satisfactorily for both points.

The general plan of weekly and monthly publications has continued unchanged during the year. The weekly crop reports were issued weekly from April 9th to September 30th, and agricultural operations for the rest of the year were reviewed in the monthly reports.

Considerable progress has been made during the year in the preparation of material for Volume II of the Maryland State Weather Service Report. The volume will be devoted mostly to the discussion of the weather and climate of Baltimore and vicinity. Normal values have been computed for most of the elements of temperature, and some progress has been made in the reduction of rainfall data. The purchase, by the Maryland State Weather Service, of a Burrough's adding machine has made it possible to reduce the great mass of observations to normal values within a reasonable time. It is probable that the report upon the weather and climate of Baltimore will be ready for publication before the close of the year 1902.



# TOTAL PRECIPITATION, 1901.

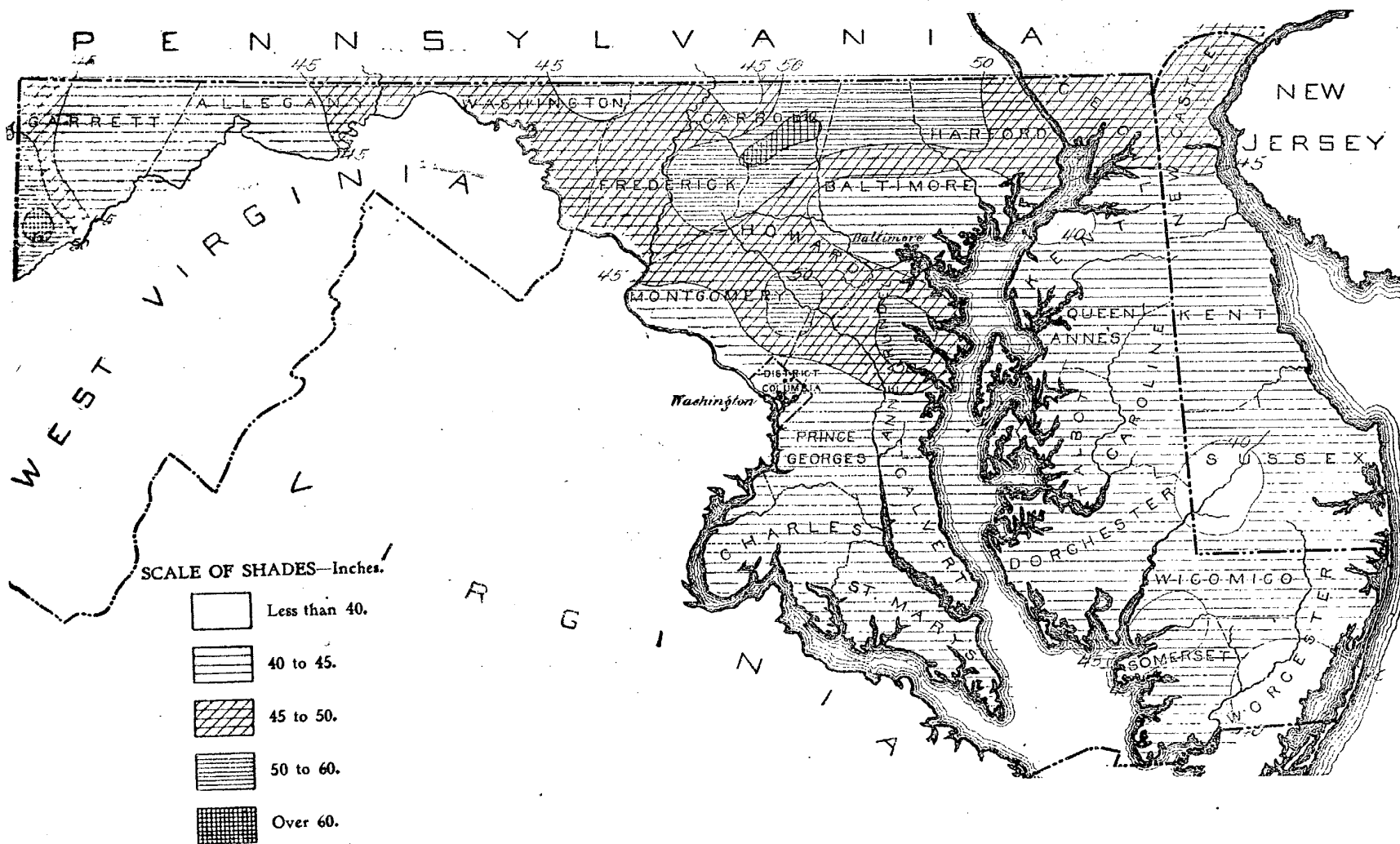


CHART SHOWING OBSERVATION AND FORECAST DISPLAY STATIONS.

