

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

CHARLES F. MARVIN, Chief

In Cooperation with Maryland State Weather Service

# CLIMATOLOGICAL DATA

## MARYLAND AND DELAWARE SECTION

ROSCOE NUNN, Meteorologist and Section Director

VOL. XXXII BALTIMORE, MD., YEAR 1927 No. 13

### GENERAL SUMMARY

The year as a whole was mild, with a mean temperature of 54.4°, which is 0.5° above normal and 1.6° higher than in 1926. January was normal; March, September, October, and December were mild, and February and November unusually so. April, May, and July were cool; June and August were outstandingly cool, August being the coolest such month of record.

The average temperature for the three months, June, July, and August, was 69.8°, or 3.3° below normal. This is the lowest average for these three months for the Maryland-Delaware Section, as a whole, during the last 35 years, but it is only a fraction of a degree lower than the average in 1907, 70.4°. In the coastal region of the section the deficiency in mean temperature was most pronounced, due to several periods of "northeast" weather. Taking the records for Baltimore, which extend back to 1871, we find the coolest summer was that of 1903, with an average of 72.1°; the second coolest was that of 1907, with 72.3°; and the summers of 1891 and 1927 were the next, with 72.5°.

Precipitation for the year averaged 40.37 inches, which is 1.13 inches below normal. It was decidedly deficient in January and March, and a slight deficiency prevailed from May to September, inclusive. It was abundant in February, April, November, and December, and unusually plentiful in October, which had the greatest average of record for that month. The area of least annual precipitation, 34 inches or slightly less, embraced southern Maryland. Amounts increased in all directions therefrom to 46 inches in the extreme southeastern and the extreme northeastern portions, and to between 51 and 54 inches in the extreme western portion of the section.

Annual snowfall averaged 15.3 inches, which is 11.3 inches below normal, and the least since 1919. Between the Blue Ridge Mountains and the Atlantic coast the annual snowfall ranged from slightly below 2 inches along the southern boundary to 20 inches in extreme northern New Castle County, Del., and to 22.5 inches in extreme northern Frederick County, Md. In western Maryland the annual amounts increased from 14 to 19 inches in eastern Washington County to between 56 and 78 inches in the Allegheny Mountain highlands.

The annual number of days with 0.01 inch or more of precipitation for the section averaged 125, or 16 above normal.

The annual amount of sunshine was below normal; it was markedly deficient in May, and the only months when it was not deficient were June, September, and October.

The growing season, between the last general killing frost in spring and the first in autumn, was one to four weeks longer than normal, except in the Allegheny Mountain region where it was about two weeks shorter than the average.

Wheat, rye, oats, corn, early potatoes, late potatoes, sweet potatoes, tomatoes, and tobacco were good crops. The yield of apples, peaches, and pears was poor to fair; but the strawberry crop was good.

Outstanding features during 1927 were: *January*.—Serious interference with shipping by ice in the tributaries of Chesapeake Bay and in upper Chesapeake Bay from 10th to 19th, due to the

cold spell of 7-13th, and by dense fog of 21st-22d and 29-30th; pronounced thaw of 19th-22d; high water in the Potomac River on 22-23d; and very light monthly snowfall. *February*.—Absence of cold periods; heavy snowfall in western Maryland; damaging "northeaster" of 19-20th, the high winds blocking roads badly with snow and blowing down 783 telephone poles in western Maryland, while the gale and unusually high tide along the Delaware coast caused damage estimated at \$200,000 in Delaware City and vicinity. *March*.—Northeast winds of gale force locally over eastern half of the section on 2d; mild spell 5th-22d, with mean temperature 12° above normal; absence of snow, except light fall in the Allegheny Mountain highlands and on the extreme southern Eastern Shore near the Virginia line; fruit buds unusually advanced. *April*.—Frequent rains and persistent coolness, except warm spell 16th-21st; high water in all streams on 22d between the Blue Ridge Mountains and Chesapeake Bay; damage by freezing to cherry blossoms in the Cumberland Valley and to early strawberries on the southern Eastern Shore during the 10-12th, and to tree fruit and strawberry blossoms in the northern portion of the section during the 23d-25th. *May*.—Local damage by thunderstorms and heavy hail on the 10th, 25th, and 26th. *June*.—Heavy easterly rains on 14th and 18-20th. *July*.—Warm wave of 11-18th; unusual frequency of thunderstorms, though not general; two deaths and some property damage in Wicomico County on 7th, and the death of a boy and some property damage near Mechanicsville on 18th by lightning. *August*.—Unprecedented coolness; considerable damage by torrential thundershower at

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### COMPARATIVE DATA FOR MARYLAND AND DELAWARE

Year	Temperature				Precipitation						
	Mean	Departure from the normal	Highest	Lowest	Average	Departure from the normal	Greatest local	Least local	Greatest in 24 hours	Snowfall	Number of days with 0.01 inch or more
1895	52.6	-1.3	102	-18	34.47	-7.03	42.07	14.42	4.80	29.9	94
1896	54.0	+0.1	103	-13	37.11	-4.39	64.94	30.18	4.50	23.0	92
1897	53.6	-0.3	102	-12	44.97	+5.47	63.85	32.56	14.75	16.4	109
1898	54.9	+1.0	103	-20	42.11	+0.61	65.77	32.59	5.93	21.6	109
1899	53.5	-0.4	102	-26	40.84	-0.66	51.38	28.69	5.35	40.3	93
1900	55.0	+1.1	106	-15	36.66	-4.84	52.19	28.21	5.53	26.8	83
1901	52.6	-1.3	106	-15	45.08	+3.58	70.87	34.63	5.45	18.7	99
1902	53.6	-0.3	104	-17	43.20	+1.70	61.88	33.75	6.00	33.3	105
1903	53.3	-0.6	100	-12	46.94	+5.44	73.72	36.58	6.00	17.9	106
1904	51.2	-2.7	102	-20	36.49	-5.01	50.26	25.72	5.90	41.3	96
1905	53.3	-0.6	104	-20	43.84	+2.34	64.64	31.88	4.65	36.1	106
1906	54.6	+0.7	101	-15	48.01	+6.51	62.92	36.10	8.66	20.7	123
1907	52.2	-1.7	99	-29	48.86	+7.36	66.59	37.55	5.00	34.6	121
1908	54.1	+0.2	102	-21	40.01	-1.49	52.50	31.63	7.93	32.5	101
1909	54.0	+0.1	99	-5	37.47	-4.03	50.45	28.30	3.80	30.0	105
1910	53.8	-0.1	99	-15	37.42	-4.08	52.45	26.74	7.19	34.8	109
1911	54.9	+1.0	106	-5	43.61	+2.11	55.58	33.62	7.35	23.2	119
1912	53.3	-0.6	102	-40	43.42	+1.92	52.68	35.50	6.07	32.2	112
1913	56.1	+2.2	102	-6	38.99	-2.52	48.96	25.41	4.05	6.1	108
1914	53.4	-0.5	102	-21	38.97	-5.53	43.32	29.35	3.81	37.2	98
1915	54.1	+0.2	103	-6	45.58	+2.08	58.39	26.82	5.11	25.1	107
1916	53.2	-0.7	101	-11	40.47	-1.03	49.72	26.14	6.00	28.5	112
1917	51.3	-2.6	102	-32	40.65	-0.85	54.22	27.17	4.52	35.7	110
1918	53.8	-0.1	103	-30	37.96	-3.54	46.95	28.88	4.50	31.4	98
1919	54.9	+1.0	105	-19	47.62	+6.12	60.84	30.69	9.02	11.9	114
1920	53.3	-0.6	98	-10	44.95	+3.45	56.29	32.49	4.30	20.0	113
1921	55.6	+2.7	102	-15	37.72	-3.78	54.12	28.89	5.60	20.5	114
1922	55.0	+1.1	100	-15	40.15	-1.45	55.65	24.39	6.75	34.8	111
1923	54.4	+0.5	102	-9	40.27	-1.23	50.38	31.47	5.17	22.0	115
1924	52.6	-1.3	103	-13	46.26	+4.76	52.70	37.41	4.53	30.5	111
1925	54.6	+0.7	104	-31	34.91	-6.59	48.37	27.87	5.25	23.0	112
1926	52.8	-1.1	107	-16	43.90	+2.40	54.02	32.08	6.54	24.6	128
1927	54.4	+0.5	100	-6	40.37	-1.13	53.56	27.89	3.92	15.3	125

Climatological Data for the Year 1927

Stations	Counties	Elevation, feet	Temperature, degrees Fahrenheit					Precipitation					Number of rainy days	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 of clear days	Number of partly cloudy days	Number of cloudy days
<i>Maryland</i>																				
Aberdeen	Harford	80	9	53.6	96	Sept. 15	6	Jan. 27	9	43.01	7.55	July	1.44	Sept.	12.1	128	104	117	144	s.
Annapolis	Anne Arundel	45	62	55.7	98	Sept. 15	5	Jan. 27	54	38.25	6.44	Oct.	0.60	Sept.	9.7	131	156	89	120	s.
Baltimore (U.S.W.B.)	Baltimore	115	57	56.6	98	Sept. 29	8	Jan. 27	57	36.23	6.90	Oct.	1.38	Sept.	12.2	134	122	106	137	sw.
Bell f.	Prince Georges	151	7	53.7	95	July 28	2	Jan. 27	7	38.97	6.89	Oct.	0.68	Sept.	11.5	116	146	109	110	nw.
Boys	Montgomery	424	8	54.2	98	July 28*	3	Jan. 27	8	36.59	5.40	Apr.	1.37	Sept.	9.7	126	132	112	121	w.
Cambridge (near)	Dorchester	25	94	57.0	94	July 28*	3	Jan. 27	34	39.37	6.39	May	0.56	Sept.	5.5	106	155	87	123	nw.
Cecilton	Cecil	85	9				5	Jan. 27	9		5.89	Oct.	1.45	Mar.	11.3					nw.
Cheltenham	Prince Georges	230	27	55.4	95	July 28	5	Jan. 27	27	40.11	5.59	Apr.	1.08	Jan.	7.6	126	156	95	114	nw.
Cheswille	Washington	530	30	52.6	95	June 30*	4	Jan. 27	30	44.87	10.63	Oct.	1.44	Mar.	19.3	120	161	100	104	sw.
Clear Spring	do	600	25	53.9	98	June 30*	5	Jan. 27	30	49.27	10.05	Oct.	1.19	Sept.	23.5	126	177	79	109	w.
Coleman I.	Kent	80	23	55.3	96	July 15*	6	Jan. 27	30	38.39	5.95	July	1.54	Mar.	12.1	108	154	90	121	nw.
College Park	Prince Georges	87	40	55.1	98	July 28*	5	Jan. 27	41	38.07	6.05	Apr.	1.47	Jan.	9.3	120	152	100	113	nw.
Crisfield	Somerset	5	8				12	Jan. 16*	8			Oct.	0.82	Jan.	2.0					nw.
Cumberland	Allegany	623	44	53.6	100	July 13	6	Jan. 16*	55	38.07	5.18	Apr.	1.54	Jan.	29.0	155	165	93	107	nw.
Darlington	Harford	300	37	53.3	96	Sept. 15	3	Jan. 27	36	45.06	7.83	Oct.	1.80	Mar.	17.2	112	146	98	121	w.
Easton	Talbot	35	37	55.7	99	Sept. 15	6	Jan. 27	37	35.78	4.43	June	0.49	Sept.	9.5	118	150	98	117	s.
Elkton	Cecil	28	1		97	Sept. 15			1		6.07	Oct.								w.
Emmitsburg	Frederick	720	69				3	Jan. 27	58		8.34	Oct.	1.22	Mar.	20.5					w.
Fallston f.	Harford	450	58	53.1	95	Sept. 15	2	Jan. 27	58	37.33	6.74	Oct.	1.17	Sept.	14.6	132	138	120	112	nw.
Ferry Landing f.	Calvert	110	11	55.6	97	Sept. 15	5	Jan. 27	11	36.94	5.92	Apr.	0.81	Jan.	6.5	112	152	97	116	nw.
Frederick	Frederick	275	53	55.2	100	July 14	2	Jan. 27	53	41.58	7.58	Oct.	0.78	Sept.	13.6	140	142	105	118	nw.
Crisisburg	Allegany	1,501	2	50.0	99	July 13*	-4	Jan. 18	26	49.09	6.58	Apr.	1.20	Sept.	5.1	138	140	142	105	nw.
Frostburg	Allegany	1,929	23	51.8	94	July 13*	-2	Jan. 18	26	41.58	6.34	Oct.	0.80	Sept.	39.9	132	158	92	115	w.
Grantsville	Garrett	2,351	34	47.8	83	July 13	-5	Jan. 16	34	53.56	6.93	Feb.	1.25	Sept.	78.2	169	104	100	161	w.
Great Falls	Montgomery	200	30	54.9	96	June 29*	6	Jan. 27	38	39.18	6.67	Oct.	1.35	Jan.	8.6	119	143	113	109	sw.
Hancock (Tonoloway)	Washington	455	16	53.1	97	June 30*	2	Jan. 27	17	40.19	8.16	Oct.	0.61	Sept.	19.3	124	191	72	102	.....
Keadysville	do	400	23	54.6	99	July 14	6	Jan. 27	23	41.59	10.26	Oct.	1.12	Sept.	14.2	119	178	82	105	nw.
Laurel	Prince Georges	320	33	54.5	96	July 28	5	Jan. 27	33	36.43	6.85	Oct.	1.34	Sept.	11.0	133	155	97	113	nw.
Lutherville	Baltimore	940	1	53.7	97	June 29*	4	Jan. 27	1	41.87	8.01	Oct.	1.33	Sept.	13.1	127	151	96	118	nw.
Maryland Line	Baltimore	840	3	52.6	95	July 14	1	Jan. 27	3	42.35	5.56	Oct.	1.59	Mar.	17.7	105	155	96	114	w.
Mechanicsville	St. Marys	165							1		5.80	Aug.	1.04	Sept.						w.
Millington	Kent	27	30	55.3	96	Sept. 15	6	Jan. 27	29	41.29	5.82	July	1.01	Sept.	13.5	129	150	91	124	w.
Newburg	Charles	110	2	56.7	98	Sept. 15	7	Jan. 27	2	34.01	4.84	July	0.52	Sept.	1.4	121	153	98	114	sw.
Onkland	Garrett	2,461	28	48.3	89	July 13	-4	Jan. 8*	28	51.87	6.96	Apr.	0.89	Sept.	55.9	177	101	125	139	w.
Picardy	Allegany	900	1		99	July 13			3		6.24	Oct.	1.02	Sept.						w.
Pleasant Hill	Baltimore	660							3		6.59	Oct.	1.34	Sept.	13.3					w.
Pocomoke City	Worcester	37							22	40.48	6.40	Aug.	0.86	Jan.	3.5	117	131	129	105	sw.
Princess Anne	Somerset	17	52	55.8	95	July 28*	6	Jan. 27	34	40.58	6.06	July	0.97	Jan.	4.0	105	111	149	105	sw.
Public Landing f.	Worcester	10	12	55.4	94	July 29	5	Jan. 27	12	46.42	8.20	Dec.	0.98	Jan.	3.5	119	142	88	135	w.
Ridgely	Caroline	57	6	56.5	95	July 15	6	Jan. 27	16	39.03	4.73	July	0.62	Sept.	9.5	109	131	102	132	nw.
Rock Hall	Kent	23	13	55.8	98	July 28	6	Jan. 27	12	35.82	5.87	Oct.	0.95	Sept.	11.5	115	149	100	116	s.
Salisbury	Wicomico	23	22	56.8	94	Sept. 15	5	Jan. 27	22	38.56	5.68	July	0.53	Sept.	5.1	114	157	108	100	s.
Solomons	Calvert	20	35	56.8	92	July 28*	5	Jan. 27	36	27.89	3.22	Apr.	0.74	Jan.	2.5	112	110	118	137	nw.
State Sanatorium	Frederick	1,460	19		93	July 13*	3	Jan. 27	19		10.52	Oct.			22.5					.....
Stevensville	Queen Annes	12	1	55.6	96	Sept. 15	6	Jan. 27	1	37.28	6.46	Oct.	0.50	Sept.	10.4	110	146	93	126	sw.
Takoma	Montgomery	320	29	54.6	95	Sept. 15	5	Jan. 27	29	32.40	5.01	Apr.	0.74	Sept.	9.9	123	110	112	143	.....
Towson	Baltimore	465							15	40.67	6.79	Oct.	1.21	Sept.	13.2	120				.....
Western Port	Allegany	1,000	34	54.0	98	Oct. 1	4	Jan. 16	34	41.18	7.02	Apr.	0.94	Sept.	25.2	159				.....
Westminster	Carroll	770	18	53.3	96	June 29*	2	Jan. 27	18	43.60	8.71	Oct.	1.54	Jan.	16.1	128	150	103	112	.....
Woodstock	Baltimore	415	57	53.7	94	July 14*	5	Jan. 27	57	38.13	7.35	Oct.	1.42	Mar.	12.9	132	147	98	120	sw.
<i>District of Columbia</i>																				
Washington (U.S.W.B.)		112	57	56.3	97	Sept. 15	8	Jan. 27	57	35.33	5.33	Oct.	1.19	Sept.	8.3	123	110	112	143	nw.
<i>Delaware</i>																				
Bridgeville	Sussex	45	4	55.4	94	July 28	5	Jan. 27	4	33.30	5.10	July	1.00	Sept.	6.0	121	156	118	91	nw.
Delaware City	New Castle	12	41		96	July 13*	6	Jan. 27	37		5.72	Oct.	1.94	Jan.	16.2					s.
Dover	Kent	34	33	55.6	95	Sept. 15	6	Jan. 27	38	40.36	6.25	Aug.	1.32	Mar.	13.0	115	152	102	111	nw.
Milford	do	20	35	55.7	94	Sept. 15*	6	Jan. 27	45	42.17	7.09	July	1.62	Sept.	11.0	122	150	120	95	nw.
Millsboro	Sussex	20	35	56.1	96	July 28*	6	Jan. 27	35	42.34	5.62	July	1.15	Jan.	6.6	125	155	114	96	nw.
Wilmington	New Castle	86	34	53.4	93	July 13	2	Jan. 27	34	46.31	6.25	Aug.	1.56	Mar.	20.2	125	149	91	125	w.
For Maryland and District of Columbia				54.3	100	July 13*	-5	Jan. 16		40.10	10.63	Oct.	0.49	Sept.	15.6	125	143	104	118	nw.
For Delaware				55.1	96	July 13*	2	Jan. 27		42.12	7.09	July	1.00	Sept.	11.7	120	151	108	106	nw.
For entire section				54.4	100	July 13*	-5	Jan. 16		40.37	10.63	Oct.	0.49	Sept.	15.3	125	143	104	118	nw.

\*Also on other dates.

†Post Office addresses of these stations are as follows: Of Bell, Glendale; of Coleman, Worton; of Fallston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Pleasant Hill, Owings Mills; of Public Landing, Snow Hill.

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Cumberland on 13th; waterspout on Chesapeake Bay on 29th, from mouth of Magothy River eastward to near Love Point Lighthouse. *September*.—Warm spell of 13-18th; freezing temperatures and killing frosts in Allegheny Mountain highlands of 22d-26th. *October*.—Unusually heavy rainfall during first two decades; heaviest snowfall for so early in the season in Allegheny Mountain highlands on 17-18th; some damage locally by high northwest winds during night of 3d-4th; also by southeast gale of 12th. *November*.—Unusual mildness; light snowfall, confined to the Allegheny Mountain region; southerly

gale on 17th, featured by a tornado extending from 3 miles southwest of Alexandria, Va., north-northeastward across the eastern portion of the District of Columbia into Prince Georges County, Md., causing property damage estimated at \$690,000 and injury of 31 persons; westerly gale during night of 30th wrecked a glass factory near Cumberland, loss \$20,000, and caused minor property damage locally over the section. *December*.—Rather windy; heavy sleet storm of 4th, preceded by a glaze (rain freezing upon falling); cold spell of 9-10th; 3-day period of dense fog, 29th-31st; light snowfall, confined to the Allegheny Mountain region.—J. B., jr.

Monthly and Annual Precipitation for the Year 1927, with Departures from the Normal

Table with columns for Stations, months (January-December), and Annual. Rows list various locations in Maryland, District of Columbia, and Delaware, with numerical data for precipitation and departure from normal.

CONDENSED SUMMARY OF CLIMATOLOGICAL DATA, 1927

Summary table with columns for Months, Temperature (Mean, Departure from normal, Highest, Lowest), Precipitation (Average, Departure from normal, Greatest local, Least local), Number of days (Snowfall, Clear, Partly cloudy, Cloudy), and Prevailing direction of wind.

Monthly and Annual Mean Temperatures for the Year 1927, with Departures from the Normal

Table with columns for Stations, months (January-December), and Annual. Rows list various locations in Maryland, District of Columbia, and Delaware, with temperature and departure values.

KILLING FROSTS, 1927

Table with columns for Stations, Last in spring, First in autumn. Rows list various locations in Maryland, District of Columbia, and Delaware, with dates for the last spring and first autumn frosts.