

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

This was the first cold October since 1937. Monthly precipitation, unequally distributed over the section, averaged four-fifths of normal. Monthly sunshine was normal over western Maryland and about 5% below normal over the central and eastern divisions.

The weather was cold during the 1st-2d, 9-10th, and 27-29th and very cold during the 16th-22d; otherwise, it was mild, except warm during the 6-7th and 12-14th and on the 24th.

Rain was fairly well distributed through the month. Daily amounts were light, except moderate over the southern portion of the section at night of the 19-20th and over the northern portion of the section on the 30th and moderate to heavy during the 1st-2d.

The first general snowfall of the season occurred on the 19th. It was the earliest of record between the Allegheny Mountains and the Atlantic Coast. It covered the section, except the southern portion of the Eastern Shore, and was preceded by rain in the central and eastern divisions.

Cutting early corn ended the first week. Harvesting tomatoes for the canneries and picking peaches ended the second week. Sowing wheat and rye and digging late potatoes ended the third week in western Maryland. Sowing wheat and rye began the first week and digging late potatoes began the second week and neither was finished at the close of the month in the central and eastern divisions. Frosts and freezing temperatures of the 19th-23d terminated harvesting green tomatoes and beans. Cutting late corn and digging sweet potatoes ended the fourth week. Picking apples and pears, filling silos, and husking corn were in progress.

Barley made growth and was good to excellent. Early sown wheat and rye came up to good stands and the later sown grains were coming up nicely. Grasses and pastures were fair to good. — J. B., jr.

TEMPERATURE

The monthly mean for the section, 53.2°, is 3.0° below normal. The highest monthly mean was 56.8° at Crisfield; the lowest, 46.8°, at Mt. Savage Summit. The highest temperature, 86°, occurred at Cumberland on the 6th and at Great Falls on the 13th; the lowest, 20°, at Oakland on the 19th. The greatest local monthly range was 60°, at Bell, Oakland, and Sines; the least, 40°, at Delaware Breakwater. The greatest daily range was 51° at Cumberland on the 23d.

PRECIPITATION

The monthly average for the section, 2.34 inches, is 0.66 inch below normal. The greatest monthly amount was 3.77 inches at State Sanatorium; the least, 0.77 inch, at Mt. Savage Summit. The greatest 24-hour rainfall was 1.55 inches at State Sanatorium on the 1st-2d. The monthly average snowfall for the section, 2.2 inches, is 2.0 inches above normal. The greatest 24-hour snowfall was 5.1 inches at Mt. Savage Summit on the 19th. The average number of days with 0.01 inch or more of precipitation, 9, is 2 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs: 2 to 17, 19 to 21, 23 to 31. Frost, first general killing, 19. Hail, light: Baltimore, Dundalk, Frederick, and Unionville, 27. Halos, lunar and solar: 6, 9, 12, 20. Sleet, light: Silver Spring and State Sanatorium, 19. Thunderstorms: 24, 25, 27, 28. Wild geese flying south: Oxford, 18; Princess Anne, 15. Winds, high: 15, 18.

PRESSURE, HUMIDITY, SUNSHINE, WIND, DEGREE DAYS

Stations	Atmospheric pressure reduced to sea level				Wind				Mean relative humidity			Percentage of sunshine	Heating degree days (base 65°)
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Aberdeen, Md.	30.49	22	29.73	7	8.5	32	nw.	15	82	76	76	389	
Annapolis, Md.	30.50	22	29.76	7	8.1	32	nw.	15	82	79	79	823	
Baltimore, Md.	30.52	22	29.76	7	9.2	32	nw.	15	82	54	76	296	
Elkins, W. Va.	30.41	22	29.79	7	4.5	22	w.	7	93	57	80	399	
Harrisburg, Pa.	30.49	22	29.72	7	6.2	25	n.	15	82	54	71	418	
Norfolk, Va.	30.45	22	29.75	20	9.4	30	ne.	15	90	61	84	62	
Philadelphia, Pa.	30.49	22	29.76	15	12.3	35	n.	15	82	52	73	64	
Pittsburgh, Pa.	30.42	22	29.77	7	9.0	25	nw.	30	84	54	62	56	
Washington, D. C.	30.50	22	29.76	7	5.8	23	nw.	18	76	53	70	330	

COMPARATIVE DATA FOR OCTOBER

Year	FOR MARYLAND						FOR DELAWARE					
	Temperature			Precipitation			Temperature			Precipitation		
	Mean	Highest	Lowest	Average	Average snowfall	No. of days with .01 in. or more	Mean	Highest	Lowest	Average	Average snowfall	No. of days with .01 in. or more
1895	50.7	82	4	1.98	T.	4	51.9	80	27	2.85	T.	4
1896	52.4	85	16	1.44	T.	5	54.0	84	28	3.15	0.0	5
1897	56.6	91	20	2.94	0.0	0	57.8	90	30	5.90	0.0	10
1898	56.8	89	17	4.87	T.	8	55.8	88	31	4.18	0.0	9
1899	57.1	88	15	2.60	0.0	0	58.3	83	29	3.61	0.0	5
1900	60.6	91	21	2.03	0.0	6	60.8	85	31	3.09	0.0	5
1901	54.8	82	16	1.14	T.	4	55.8	82	30	1.59	0.0	3
1902	57.2	89	17	5.72	T.	7	57.8	84	27	4.89	T.	6
1903	56.5	89	20	4.06	T.	7	57.6	86	31	6.23	T.	8
1904	58.6	91	14	2.60	T.	3	53.8	90	26	2.78	0.0	4
1905	56.5	83	20	2.80	T.	6	57.8	89	31	2.05	0.0	5
1906	55.3	82	12	5.17	0.1	14	57.3	81	28	4.47	0.0	12
1907	51.1	83	15	2.34	T.	6	52.1	82	27	2.92	0.0	5
1908	57.3	90	15	2.34	0.0	6	59.2	88	33	1.81	0.0	6
1909	51.5	86	19	1.79	T.	6	53.2	82	25	1.22	0.0	5
1910	58.8	92	15	3.21	0.1	7	59.8	88	27	5.39	0.0	6
1911	56.2	85	23	3.47	T.	10	57.3	83	33	2.83	0.0	8
1912	57.9	93	18	1.54	T.	4	60.0	96	33	2.02	0.0	3
1913	57.9	92	13	4.55	0.1	11	59.5	80	30	4.67	0.0	10
1914	59.1	93	19	1.73	T.	6	60.6	87	26	1.77	0.0	4
1915	57.7	88	19	3.85	T.	9	59.4	87	30	4.08	0.0	8
1916	55.4	91	19	1.95	T.	5	57.0	89	29	1.53	0.0	4
1917	50.7	87	18	5.66	1.1	10	52.4	83	21	6.99	0.0	10
1918	59.6	89	21	1.43	0.0	6	59.4	85	29	0.89	0.0	4
1919	62.3	96	27	3.31	0.0	11	63.3	93	35	2.72	0.0	8
1920	60.2	91	25	0.84	0.1	3	61.0	86	34	1.07	0.0	2
1921	55.7	85	20	1.09	T.	5	56.8	82	31	1.00	0.0	4
1922	58.3	94	15	1.93	0.0	6	59.3	89	28	1.41	0.0	7
1923	54.8	90	18	2.39	T.	6	56.0	82	30	3.55	0.0	5
1924	55.9	88	15	0.40	0.0	2	56.8	84	30	0.89	0.0	2
1925	50.9	85	16	5.49	3.4	15	53.0	87	25	4.66	1.7	14
1926	55.8	94	21	3.40	0.1	10	56.8	91	26	2.46	0.0	9
1927	58.6	98	24	6.00	0.6	9	59.3	94	36	4.85	0.0	9
1928	57.7	90	13	1.02	T.	5	58.6	88	25	1.13	0.0	5
1929	53.4	85	23	5.58	0.1	9	55.0	80	28	4.23	0.0	8
1930	53.9	89	7	0.74	0.1	5	54.9	86	28	1.45	0.0	6
1931	59.1	91	22	1.69	T.	6	60.8	90	33	2.61	0.0	5
1932	56.5	88	22	6.35	0.1	9	58.6	85	30	6.70	0.0	8
1933	54.7	91	16	2.03	T.	4	56.8	85	26	1.27	0.0	6
1934	54.6	85	15	1.25	0.1	4	55.2	79	28	2.08	T.	5
1935	56.0	88	17	2.75	0.1	8	57.2	84	30	2.92	0.0	8
1936	57.6	85	16	3.24	T.	8	58.3	83	23	3.27	0.0	7
1937	53.4	87	14	7.29	0.1	13	55.5	82	26	5.47	T.	11
1938	56.5	92	19	1.75	0.0	7	58.1	86	33	2.33	0.0	7
1939	56.8	94	15	4.83	T.	9	58.7	82	27	4.63	0.0	9
1940	53.1	86	20	2.35	2.2	9	53.6	83	23	2.25	1.6	8
Period	56.0	98	4	2.98	0.2	7	57.3	96	21	3.12	0.1	7

Climatological Data for October 1940

Table with columns: STATIONS, COUNTIES, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall), Number of days (With precip. of 0.01 in. or more, Clear, Partly cloudy, Cloudy), Prevailing direction of wind, OBSERVERS.

The departures from normal temperatures are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. Data in italics determined from surrounding stations. T. Precipitation is less than 0.01 inch rain or melted snow. †Post 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 Mt. Savage Summit, Frostburg; of Odessa, Middletown; of Picardy, Paw Paw, Va.; of Pleasant Hill, Owings Mills; of Prettyboy Dam, Parkton; of Sines, Oakland; of Tonoloway, Hancock. *Custom House, Gay and Water Sts. **Weather Bureau Building, 24th and M Sts. †Also on other dates. ‡miles northwest of Frostburg. §§Municipal Building. §§§Porter Reservoir. ||University Farm. ||||Water Pumping Station.

Daily Precipitation for October 1940

Table with columns for Stations, Drainage basin, Day of month (1-31), and Total. Rows list various Maryland and Delaware locations like Aberdeen, Annapolis, Baltimore, etc.

Except as otherwise indicated, observations are generally made late in afternoon, near sunset, and precipitation recorded is for the 24 hours ending at time of observation.
1 First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.
2 Precipitation is for 24-hour period, midnight to midnight.
3 Precipitation is for 24-hour period, 9:30 p.m. to 9:30 p.m.
4 Precipitation is measured in the morning; amount then recorded is for the preceding 24 hours.
5 Precipitation is measured with recording gage.
6 Precipitation is included in the next measurement.
7 Trace, or precipitation is less than .01 inch.
8 Two miles northwest of Frostburg.
9 Municipal Building.
10 Porter Reservoir.
11 University Farm.
12 Water Pumping Station.

Daily Temperatures for October 1940

Table with columns for Stations, Maximum, Minimum, and days 1-31. Rows list Bridgeville, Delaware Breakwater, Delaware City, Dover, Milford, Millsboro, Newark, Odessa, and Wilmington.

Daily Temperatures for October 1940—Continued

Table with columns for Stations, 1-31, and Mean. Rows list various Maryland locations such as Aberdeen, Annapolis, Baltimore, etc., with their respective temperature readings for each day of the month.

§§ Instruments are read in morning; maximum temperature there read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Annapolis, Baltimore, Chestertown, Conowingo Dam, Sines, and Washington are from midnight to midnight; other stations, except Cheltenham and Cumberland, are for 24-hour period ending late in afternoon, near sunset, except 9:30 p.m. at Princess Anne. (WBO, Richmond, Va., 12-12-40-156)