

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU
IN COOPERATION WITH MARYLAND STATE WEATHER SERVICE

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

J. R. WEEKS

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GENERAL SUMMARY

Dry and sunny weather, typical of autumn, characterized this October, which was the sunniest since 1924 and the driest since 1934. The month was milder than normal over the northern and central thirds of the section, but cooler than normal over the southern third. The first decade was cool. Mild weather prevailed during the 11-15th and warm weather during the 16-20th. Temperatures during the third decade were mostly mild. Monthly sunshine was 15 to 20 per cent above normal. There were no damaging winds.

Monthly rainfall amounts were mostly between 2 and 3 inches over the eastern half of the section, except between 3 and 4 inches over the extreme southeast portion of the Eastern Shore, and were between 1 and 2 inches over the western half of the section, except slightly below 1 inch over western Allegany and eastern Garrett Counties.

Autumn crops were good to excellent. Pastures and grasses were good. Late potatoes were developing and maturing in the central and eastern divisions. Harvesting tomatoes and sugar corn ended. Harvesting truck crops, digging sweet potatoes, picking late apples and Kieffer pears, filling silos, hulling clover, husking corn, haying, cutting cowpeas, cutting and threshing soy beans, plowing, and sowing grains were in progress. Cutting corn ended during the first decade. Digging late potatoes ended in western Maryland and began in north-central and southern Maryland during the third decade. Early sown grains came up to good stands, while the later sown were coming up nicely.—*J. B., jr.*

TEMPERATURE

The monthly mean for the section, 56.7°, is 0.6° above normal. The highest monthly mean was 60.2° at Crisfield and Oxford; the lowest, 48.8°, at Sines. The highest temperature, 92°, occurred at Western Port on the 17th; the lowest, 19°, at Oakland on the 8th. The greatest local monthly range was 66° at Oakland; the least, 32°, at Delaware Breakwater. The greatest daily range was 53° at Oakland on the 18th.

PRECIPITATION

The monthly average for the section, 1.93 inches, is 1.04 inches below normal. The greatest monthly amount was 3.90 inches at Snow Hill; the least, 0.64 inch, at Mt. Savage Summit. The greatest 24-hour amount was 1.50 inches at Salisbury on the 28-29th. The average number of days with 0.01 inch or more of precipitation, 7, is normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light: 1, 4, 5, 6, 8, 10 to 24, 26 to 29.

dense: 1, 6, 12 to 17, 19, 23, 24, 26.

Frost, killing: Allegheny Mountain region, 2, 3, 4, 5, 10, 22; western Maryland, 7, 8, 25, 26, 31; north-central Maryland, 8, 26. Hail, light: Princess Anne, 14.

Halos, lunar: 5, 8.

solar: 6, 12, 13, 20.

Sundog: Oxford, 20. Thunderstorms: 6, 14, 20.

Winds, high: 20 (gust), 27, 28; also on the coast, 7.

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.	Local n'n	7:30 p. m.		
Aberdeen, Md.	30.42	3	29.58	20	9.2	31	n.	28	85	..	72	..	205
Annapolis, Md.	30.40	11	29.56	20	8.0	28	78	64	62	74	268
Baltimore, Md.	30.43	3	29.55	20	9.4	35	ne.	28	74	50	62	78	189
Elkins, W. Va.	30.51	11	29.75	26	4.4	21	w.	26	53	46	66	67	387
Harrisburg, Pa.	30.46	3	29.62	20	4.4	21	ne.	28	81	53	62	80	265
Norfolk, Va.	30.43	11	29.59	24	2.6	26	n.	6	53	58	71	63	150
Philadelphia, Pa.	30.41	3	29.54	20	12.9	37	n.	28	79	56	63	74	193
Pittsburgh, Pa.	30.48	7	29.63	26	5.9	34	nw.	26	82	46	52	76	269
Washington, D. C.	30.42	11	29.58	20	7.7	24	ne.	28	82	52	70	73	215

COMPARATIVE DATA FOR OCTOBER

Year	FOR MARYLAND					FOR DELAWARE						
	Temperature			Precipitation		Temperature			Precipitation			
	Mean	Highest	Lowest	Average	Average snowfall with .01 in. or more	Mean	Highest	Lowest	Average	Average snowfall with .01 in. or more		
1895	50.7	82	4	1.93	T.	4	51.9	80	27	2.85	T.	4
1896	52.4	85	16	1.44	T.	5	54.0	84	28	3.16	0.0	5
1897	56.6	91	20	2.94	0.0	10	57.8	90	30	5.90	0.0	10
1898	56.5	89	17	4.87	T.	10	58.2	88	31	4.18	0.0	9
1899	57.1	88	15	2.60	0.0	6	58.3	89	30	3.61	0.0	5
1900	54.8	91	21	2.03	0.0	5	58.8	85	31	1.09	0.0	3
1901	54.8	92	16	1.14	T.	4	55.2	82	30	1.09	0.0	3
1902	57.2	89	17	5.72	T.	7	57.8	84	27	4.29	T.	6
1903	56.5	89	20	4.06	T.	7	57.6	86	31	6.23	T.	6
1904	53.6	91	14	2.60	T.	3	53.8	89	26	2.78	0.0	4
1905	56.5	93	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	99	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	37	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	2.62	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	56.7	87	13	5.66	1.1	10	52.4	85	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	6.84	0.1	3	61.0	86	34	1.67	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	3.58	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	4.56	1.7	14
1926	55.8	94	21	3.40	0.1	10	56.8	91	25	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	4.33	0.0	8
1930	53.9	89	7	0.74	0.1	5	54.9	86	23	1.45	0.0	6
1931	59.1	91	22	1.69	T.	6	60.8	90	38	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	2.63	T.	6	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	3.22	0.0	8
1936	57.6	85	16	3.24	T.	8	54.8	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	82	19	1.75	0.0	7	58.1	86	33	3.39	0.0	7
Period	55.9	98	4	3.02	0.1	7	57.5	96	21	3.05	T.	6

Climatological Data for October 1938

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., 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.

†Post addresses of these stations are as follows: Of Bell, Glenndale; 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, W. Va.; of Pleasant Hill, Owings Mills; of Sines, Oakland. *Custom House, Gay and Water Sts. **Weather Bureau Building, 24th and M Sts. †Also on other dates. §Northwest of Frostburg. ¶Prettyboy Dam. §§Municipal Building. §§§Porter Reservoir.

Odessa, Del.—Weekly evaporation values, stated as cubic centimeters lost from white spherical anemometers: May 2-9, 384.2; May 9-16, 208.2; May 16-23, 243.3; May 23-30, 142.3; May 30-June 6, 222.7; June 6-13, 346.5; June 13-20, 254.0; June 20-28, 208.8; June 28-July 4, 220.3; July 4-11, 287.0; July 11-18, 227.8; July 18-25, 87.0; July 25-August 1, 166.2; August 1-8, 141.2; August 8-15, 227.8; August 15-22, 209.8; August 22-29, 239.5; August 29-September 5, 201.0; September 5-12, 253.2; September 12-19, 112.5; September 19-26, 170.7; September 26-October 3, 184.3. Observations by Isaac G. Cleaver.—University of Delaware, Agricultural Experiment Station, L. A. Stearns, Entomologist.

Daily Temperatures for October 1938-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 then read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Annapolis, Baltimore, Conowingo Dam, Dundalk, 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.