

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

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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PRICE: 5 CENTS A COPY; 25-CENTS A YEAR

VOL. XLVII BALTIMORE, MD., OCTOBER 1943 No. 10

GENERAL SUMMARY

This was the first cool October since 1940. Monthly rainfall was well above the normal, but the month was not a 'wet one', since the bulk of the rain fell during the 24-28th. Prolonged periods of clear sky were 4-9th, 11-13th, and 20th-21st; of cloudiness, 14-16th and 23d-28th. Monthly sunshine was 10% below normal.

Cold periods were 3d-6th, 10-13th, 17-20th, and 23d-28th; other days were mild, except the 2d, 7-9th, 14-16th, and 30th were warm.

Monthly rainfall was mostly between 4 and 7 inches in the eastern and central divisions and mostly around 4 inches in western Maryland, except between 1.8 and 4 inches in the Allegheny Mountain region. The average for the section was 1.7 times the normal.

Some relief from the summer drought was afforded by the heavy rain of September 30-October 1 in the eastern and central divisions and by the heavy showers of the 15-16th in western Maryland and the Piedmont Plateau region. The summer drought was terminated and underground water was replenished by the general heavy rain from the night of the 24th to the night of the 28th. Falls were 1 inch to 4.5 inches from the night of the 25th to the evening of the 26th in the eastern and central divisions and 1 inch to 2 inches on the 28th over the Eastern Shore and in northern Baltimore County.

There were snow flurries on the 16th, 17th, and 18th in the Allegheny Mountain region, except a fall of 0.2 inch occurred on the 17th at Oakland.

Pastures were poor or very poor, but greened slightly during the first decade in the eastern and central divisions and during the third week over the section; they revived and greened nicely during the last week. Feed and hay were fed to livestock, because of no pasturage.

Cutting field corn and sweet corn and picking tomatoes ended generally during the first week. Digging sweet potatoes in the western and central divisions and picking apples and pears ended during the second week. Late tobacco was cut during the first and second weeks. Latest tomatoes in central and southern counties were being picked during the fourth week. Buckwheat in Garrett County was threshed. Digging late potatoes in western and north-central Maryland, husking and cribbing corn, filling silos, plowing, sowing grains, harvesting late truck crops, setting out cabbage plants, and combining soybeans were in progress.

Early sown grains improved and greened nicely and later sown grains came up during the last week.—J. B., jr.

TEMPERATURE

The monthly mean for the section, 54.3°, is 2.0° below normal. The highest monthly mean was 60.2° at Crisfield; the lowest, 45.3°, at Mt. Savage Summit. The highest temperature, 86°, occurred at Woodstock on the 9th; the lowest, 19°, at Oakland on the 5th. The greatest local monthly range was 58° at Oakland; the least, 32°, at Annapolis.

PRECIPITATION

The monthly average for the section, 5.22 inches, is 2.14 inches above normal. The greatest monthly rainfall was 8.11 inches at Maryland Line; the least, 1.76 inches at Oakland. The greatest 24-hour rainfall was 4.52 inches at Huntingtown on the 25-26th. The average monthly snowfall for the section, a trace, is 0.2 inch below normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light.—1, 2, 3, 5 to 16, 20 to 28, 31. Fogs, dense.—1, 2, 10 to 16, 21, 23 to 28.
Frosts, light.—Eastern half of section, 5, 6, 11, 12, 18, 21. Frosts, killing.—Western Maryland, 4, 5, 6, 7, 12; central Piedmont Plateau, 5, 6; northern, Prince Georges, Cecil, and northwestern New Castle Counties and low places in north-central Maryland, 11,

12; interior Sussex County, 6, 12, 13; western half of section, 18, 21; Chewsville and Newark, 31. *Hail, light.*—Crisfield, 26. *Seet, light.*—Sines, 16. *Thunderstorms.*—15, 16, 22, 25, 26, 30. *Winds, high.*—1, 10, 16 to 19, 22, 25, 26, 28 to 31. *Tides, high.*—25, 26, 27.

EVAPORATION STATION: Beltsville, Md. (Elevation, 120 feet)
U. S. Bureau Dairying Industry, Joseph B. Shepherd, in charge
(Evaporation Tank: 10 inches deep, 48 inches in diameter)

Month	Temperature					Precipitation (total)	Evaporation (inches)
	Mean	High	Date	Low	Date		
October 1943	53.6	82	8, 9	29	11	4.57	3.379

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	Average hourly velocity	Maximum velocity	Direction	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Aberdeen, Md.	30.48	6	29.36	16	9.9	81	71	886	
Annapolis, Md.	30.52	11	29.39	16	10.2	34	80	56	65	274	
Baltimore, Md.	30.57	6	29.43	16	5.4	23	82	58	74	474	
Elkins, W. Va.	30.50	6	29.37	16	7.6	29	81	58	65	356	
Harrisburg, Pa.	30.48	6	29.45	16	9.2	24	84	60	76	170	
Norfolk, Va.	30.49	11	29.39	16	9.7	32	84	60	70	279	
Philadelphia, Pa.	30.49	6	29.46	16	9.9	26	83	57	61	394	
Pittsburgh, Pa.	30.50	6	29.38	16	7.1	23	79	53	64	278	
Washington, D. C.	30.50	6	29.38	16	7.1	23	79	53	64	278	

COMPARATIVE DATA FOR OCTOBER

Year	FOR MARYLAND						FOR DELAWARE					
	Temperature			Precipitation			Temperature			Precipitation		
	Mean	Highest	Lowest	Average	Average snowfall	No. of days with 0.1 in. or more	Mean	Highest	Lowest	Average	Average snowfall	No. of days with 0.1 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	89	20	2.94	0.0	8	57.8	90	30	5.90	0.0	10
1898	56.8	91	17	4.87	T.	10	58.8	88	31	4.18	0.0	9
1899	57.1	88	15	2.60	0.0	5	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	92	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.	8	57.6	86	31	6.23	T.	4
1904	53.6	91	14	2.60	T.	3	58.8	86	31	2.05	0.0	4
1905	56.5	93	23	2.80	T.	8	57.8	89	31	2.03	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	88	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	6.99	0.0	10
1917	50.7	87	18	5.66	1.1	10	52.4	83	21	6.89	0.0	4
1918	59.6	89	21	1.43	0.0	6	59.4	85	29	0.99	0.0	4
1919	62.3	96	27	3.21	0.0	11	63.3	83	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	3.58	0.0	5
1924	55.9	88	15	0.40	0.0	2	56.8	84	30	0.39	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	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	86	28	4.33	0.0	5
1930	53.9	89	7	0.74	0.1	5	59.9	86	23	1.45	0.0	5
1931	59.1	91	22	1.69	T.	6	60.8	90	33	2.61	0.0	6
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.	6	56.8	85	26	1.27	0.0	6
1934	54.6	85	15	1.25	0.1	4	55.2	79	28	2.98	T.	5
1935	56.0	88	17	2.75	0.1	8	57.2	84	30	2.02	0.0	8
1936	57.6	86	16	3.24	T.	8	58.8	83	23	3.27	0.0	7
1937	53.4	87	14	7.29	0.1	13	55.5	82	26	4.47	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	92	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
1941	61.8	89	20	1.63	0.0	7	63.0	87	24	1.58	0.0	6
1942	57.8	87	14	6.77	T.	11	58.6	82	24	4.96	0.0	11
1943	54.2	86	19	5.08	T.	9	55.1	82	30	6.21	0.0	10
Period	56.1	99	4	3.07	0.2	7	57.4	97	21	3.19	0.1	7

Climatological Data for October 1943

Table with columns: STATIONS, COUNTIES, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date), Precipitation (Total, Departure from normal, Greatest in 24 hours, Date, Total snowfall), Number of days (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 Blackwater, Cambridge; of Coleman, Worton; of Edgemont, Smithsburg; of Fallston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Mt. Savage Summit, Frostburg; of Picardy, Paw Paw, W. Va.; of Pleasant Hill, Owings Mills; of Prettyboy Dam, Parkton; of Sines, Oakland; of Towoloway, Hancock. *Custom House, Gay and Water Sls. **Weather Bureau Building, 24th and M Sts. †Also on other dates. ‡On mountain top, 2 1/2 miles northwest of Frostburg. §Municipal Building. ¶Porter Reservoir. ||Water Pumping Station. |||University Farm. \$1 mile west.
Figures and letters following station indicate distance and direction of the observation point from the city. Elevations are of ground above mean sea level.
§Thermometers are read in morning; maximum temperature then read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Annapolis, Baltimore, Sines, and Washington are from midnight to midnight; at Dundalk, Mt. Savage Summit, Ocean City, and Snow Hill the thermometers are read at 1:30 a. m., the extremes are charged to the preceding day; other stations, except Blackwater, Cheltenham, Chestertown, Conowingo Dam, Cumberland, and Pocomoke City, are for 24-hour period ending late in afternoon, near sunset. §Thermometers are read at 9 p. m.

Daily Precipitation for October 1943

Table with columns for Stations, Drainage basin, Day of month (1-31), and Total. Rows list various Maryland and Delaware locations with their respective precipitation amounts for each day.

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 measured in the morning; amount then recorded is for the preceding 24 hours. 4 Precipitation is measured at 1:30 a.m.; amount then recorded is entered on preceding day. 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 Precipitation is for 24-hour period, 9 p. m. to 9 p. m. 9 Water Pumping Station. 10 University Farm. 11 Municipal Building. 12 Porter Reservoir.

Daily Temperatures for October 1943

Table with columns for Stations, Day of month (1-31), and Mean. Rows list various Delaware and District of Columbia locations with their daily maximum and minimum temperatures and a monthly mean.

Daily Temperatures for October 1943—Continued

Table with columns for Stations (Maryland), days 1-31, and Mean. Rows list various stations like Aberdeen, Annapolis, Baltimore, etc., with their respective temperature data.

See page 38 for explanation of reference marks.

(WBO, Richmond, Va., 12-14-43-1200)