

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

In Cooperation with Maryland State Weather Service

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

This was the third successive warm August and the first wet August since 1934. Warm weather was interrupted by a very cool spell during the 23d-25th and by low daytime temperatures during the 29-30th. Very warm weather prevailed during the 17th-21st. The first and second decades were dry, except over the eastern third of the section. The third decade was cloudy and wet, with easterly rains. The 14-17th was a period of clear sky and sunshine. Relative humidity averaged about 5 per cent above normal. Sunshine was normal.

Washington County, north-central Maryland, and the southern portion of southern Maryland were the areas of least monthly rainfall. The Eastern Shore, Harford County, and the northern portion of southern Maryland were the areas of greatest monthly rainfall.

Heavy thundershowers on the 7th and 12th in extreme eastern Baltimore, and in Harford, Cecil, and northern New Castle Counties flooded low areas, caused some streams to overflow their banks, washed fields and roads badly, and delayed auto traffic; damage to roads was about \$25,000.

During the first and second decades growing crops improved to good to excellent and grasses and pastures improved to good on the Eastern Shore; growing crops were mostly good and grasses and pastures were fair in the central divisions, except the former were fair and the latter were poor to fair in the southern portion of southern Maryland; and growing crops, grasses, and pastures were poor to fair in western Maryland. The wet weather of the third decade produced marked improvement; growing crops continued good to excellent and pastures continued good on the Eastern Shore, and they became likewise in the central and western divisions. During the second decade digging early potatoes and threshing wheat and rye ended, and threshing oats ended in the southern counties. During the third decade threshing oats ended in the northern counties, except in Garrett County, where harvesting oats ended and threshing oats began during the third week; corn, well eared and grains well filled out, was maturing in the eastern and central divisions; sweet

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TEMPERATURE

The monthly mean for the section, 75.6°, is 2.5° above normal. The highest monthly mean was 79.4° at Solomons; the lowest, 68.2°, at Sines. The highest temperature, 100°, occurred at Cumberland on the 19th; the lowest, 44°, at Grantsville on the 2d. The greatest local monthly range was 48° at Hancock; the least, 28°, at Annapolis and Crisfield. The greatest daily range was 45° at Oakland on the 16th.

PRECIPITATION

The monthly average for the section, 7.05 inches, is 2.46 inches above normal. The greatest monthly amount was 12.18 inches at Chestertown; the least, 3.44 inches, at Hancock (City). The greatest 24-hour amount was 4.24 inches at Elkton on the 7th. The average number of days with 0.01 inch or more of precipitation, 13, is 3 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light.—1 to 4, 6 to 9, 12, 13, 15, 17 to 19, 22 to 31. Fogs, dense.—1 to 4, 6, 8, 24 to 31. Hail, light.—Charlotte Hall, 2. Hail, heavy.—Salisbury, 2:30 p. m., 2d; path one-half mile wide; damage to corn, tomatoes, and cantaloupes about \$5,000. Holes.—Chestertown: lunar, 19, 20; solar, 22. Lightning.—Injured a man at Essex, a man at St. Margarets, 5 persons at a tournament at Bradshaw, and killed a negro girl at Furnace Branch, on 7; destroyed \$10,000 barn and contents and killed 5 calves on one farm and destroyed barn and contents and stable and killed horse on another farm at Centreville, on 7; destroyed brick barn and contents at Emmitsburg, loss \$15,000, on 7; destroyed barn, silo, and dairy house at Union Bridge, loss \$7,000, on 7; destroyed barn and contents near Westminster, loss \$5,000, on 7; fired 5 homes and damaged church spire in Baltimore, fired home in Pikesville, put 100 telephones out of commission in Ellicott City, destroyed barn and contents at Alpha and at Clarksville, and killed cow at Harrisonville, on 12; destroyed barn and contents and killed calf and colt at Frostburg, loss \$7,000, on 18; destroyed barn and contents and killed cow at Denton, loss \$5,000, and destroyed barn and contents at Comus, loss \$5,000, on 22.

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PRESSURE, HUMIDITY, SUNSHINE, WIND, DEGREE DAYS

Stations	Atmospheric pressure reduced to sea level				Wind			Mean relative humidity			Percentage of sunshine	Cooling degree days (base 75°)
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	7:30 a. m.	Local n'n	7:30 p. m.		
Aberdeen, Md. ....	30.31	15	29.75	12	8.1	25	n.	21	84	65	80	78
Annapolis, Md. ....	30.32	15	29.78	12	8.1	25	n.	12	80	61	82	95
Baltimore, Md. ....	30.33	15	29.77	12	8.1	25	n.	6	86	60	75	134
Elkton, Va. ....	30.36	13	29.90	12	5.5	23	n.w.	10	86	65	70	55
Harrisburg, Pa. ....	30.31	15	29.75	12	7.9	27	s.	11	86	61	78	67
Norfolk, Va. ....	30.32	16	29.88	12	10.8	44	sw.	11	83	62	70	106
Philadelphia, Pa. ....	30.33	15	29.82	12	7.7	26	n.	21	85	55	68	71
Pittsburgh, Pa. ....	30.31	15	29.81	12	5.5	22	w.	8	86	62	72	56
Washington, D. C. ....	30.30	15	29.78	12								114

COMPARATIVE DATA FOR AUGUST

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.....	75.2	102	31	1.90	0.0	7	77.1	100	49	2.73	0.0	7
1896.....	74.2	100	34	1.77	0.0	6	75.8	103	50	1.57	0.0	7
1897.....	71.6	95	39	3.53	0.0	8	73.5	93	54	3.33	0.0	7
1898.....	75.3	98	46	6.42	0.0	9	76.7	95	53	5.07	0.0	7
1899.....	74.1	102	41	4.09	0.0	9	74.4	95	52	4.91	0.0	8
1900.....	78.6	103	41	3.04	0.0	9	78.7	104	52	2.79	0.0	9
1901.....	74.9	98	42	5.72	0.0	10	76.7	95	57	7.13	0.0	9
1902.....	71.6	100	33	2.11	0.0	7	73.1	95	48	1.62	0.0	9
1903.....	71.0	100	37	5.25	0.0	13	72.4	99	49	4.58	0.0	9
1904.....	71.9	97	31	2.96	0.0	8	72.8	94	48	2.42	0.0	6
1905.....	72.9	104	38	5.19	0.0	13	73.3	103	51	6.49	0.0	10
1906.....	75.6	96	43	8.32	0.0	16	76.9	97	59	9.25	0.0	14
1907.....	71.3	95	39	4.40	0.0	11	72.6	95	51	3.29	0.0	9
1908.....	71.7	101	34	4.98	0.0	9	72.1	97	48	5.06	0.0	11
1909.....	71.7	99	33	3.11	0.0	7	72.3	95	48	2.97	0.0	4
1910.....	72.3	95	34	2.79	0.0	9	72.9	92	51	3.32	0.0	11
1911.....	74.7	104	37	9.95	0.0	15	75.4	99	51	9.87	0.0	13
1912.....	71.5	99	36	2.93	0.0	9	73.8	97	49	1.87	0.0	7
1913.....	73.0	101	38	3.90	0.0	9	74.0	99	52	3.60	0.0	8
1914.....	74.4	102	38	4.84	0.0	9	76.5	100	55	3.94	0.0	8
1915.....	72.4	102	38	8.22	0.0	15	74.5	101	49	8.05	0.0	12
1916.....	74.1	101	38	2.42	0.0	7	74.9	99	49	1.14	0.0	5
1917.....	73.3	100	40	3.15	0.0	8	75.0	98	51	3.54	0.0	9
1918.....	76.0	109	40	3.19	0.0	9	76.7	107	48	1.55	0.0	5
1919.....	71.9	96	37	5.37	0.0	11	72.5	94	51	9.54	0.0	11
1920.....	73.4	95	42	6.86	0.0	16	74.5	91	52	8.13	0.0	19
1921.....	71.2	97	37	3.70	0.0	8	72.3	98	49	3.82	0.0	9
1922.....	71.6	98	31	3.19	0.0	10	72.9	91	51	4.79	0.0	11
1923.....	72.7	98	34	3.12	0.0	11	73.0	96	45	2.78	0.0	10
1924.....	73.3	103	35	4.00	0.0	8	74.2	100	49	4.57	0.0	7
1925.....	71.6	98	35	2.33	0.0	8	72.4	95	45	3.39	0.0	7
1926.....	74.8	104	42	6.54	0.0	14	76.1	101	53	5.66	0.0	11
1927.....	68.3	92	36	3.97	0.0	13	69.6	91	47	4.96	0.0	13
1928.....	75.2	99	41	9.09	0.0	12	77.0	100	55	10.00	0.0	12
1929.....	71.3	99	35	2.69	0.0	7	72.7	97	45	2.84	0.0	8
1930.....	73.7	108	36	1.66	0.0	5	74.4	102	46	1.99	0.0	4
1931.....	73.6	101	40	7.44	0.0	15	75.8	101	56	9.58	0.0	13
1932.....	74.6	104	38	2.55	0.0	7	75.7	100	50	2.12	0.0	6
1933.....	73.8	100	40	16.00	0.0	12	75.6	98	56	12.73	0.0	13
1934.....	72.0	97	32	4.94	0.0	10	72.9	94	44	5.40	0.0	10
1935.....	74.1	100	36	3.22	0.0	9	74.6	99	49	3.66	0.0	10
1936.....	75.8	101	39	4.11	0.0	10	76.4	100	50	6.08	0.0	8
1937.....	75.5	100	44	6.87	0.0	13	76.1	95	55	8.23	0.0	15
Period.....	73.0	100	30	4.56	0.0	10	74.3	107	44	4.78	0.0	9

Climatological Data for August 1937

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.

(Continued from front page) potatoes were developing and maturing; late tomatoes and late tree fruits were developing; late potatoes were developing and maturing in western Maryland; late potato plants were in bloom and late potatoes were making in the central division; late potato plants were blooming on the Eastern Shore; many tomatoes in fields, much tobacco in fields and barns, and some peaches on trees rotted, due to the wet weather.

and berry crops were in progress. - J. B., jr. MISCELLANEOUS PHENOMENA (Continued) Severe thundergust, at 5 p. m., 12th, unroofed and damaged otherwise 24 homes, unroofed and damaged otherwise 18 garages in a row, the falling brick walls damaging 4 autos, demolished 6 sheds, shattered much window glass, blew down a tent, injuring 4 men, in the southeastern section of Baltimore; loss about \$30,000.

Daily Precipitation for August 1937

Table with columns for Stations, Drainage basin, Day of month (1-31), and Total. Rows include Maryland stations (Aberdeen, Annapolis, Baltimore, etc.) and Delaware stations (Bridgeville, Delaware Breakwater, 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.
\*\*\*Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.
|||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.
Northwest of Frostburg. Prettyboy Dam. Municipal Building. Porter Reservoir.
\*Precipitation included in following measurement.

Daily Temperatures for August 1937

Table with columns for Stations, Day of month (1-31), and Mean. Rows include Delaware stations (Bridgeville, Delaware Breakwater, Delaware City, etc.) with maximum and minimum temperature data.

Daily Temperatures for August 1937-Continued

Table with columns for Stations, days 1-31, and Mean. Rows list various Maryland and District of Columbia locations such as Aberdeen, Annapolis, Baltimore, etc., with their respective maximum and minimum temperatures for each day.

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, Chestertown, Conowing 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. (W.P.O. Richmond, Va., 10-11 37-1,000)