

CLIMATOLOGICAL DATA

15

MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

Through the section, the temperature and rainfall were close enough to the September average to be called normal. Temperatures averaged just 0.2° above normal, with Delaware averaging 0.1° below normal and Maryland 0.3° above. Except for Washington, D. C., with a temperature 2.3° above normal, no station had a mean temperature more than 2° above or below the September average. The first 22 days were above normal with the greatest departures occurring near the 4th, 10-14th, and the 19th. The last 8 days were about 8° to 10° cooler than usually expected in late September. The coolest day was the 27th or 28th when temperatures dipped into the mid and low-20's with killing frost in the mountains, into the 30's with variable frost in the Piedmont and interior Del-Mar sections, and to near 40° in the vicinity of the Bays and Ocean. A reading of 31° at Newark, Delaware on the 27th was the lowest September temperature in the Delaware records. Rainfall was about one-third of an inch lighter than usually falls in September, with Delaware being a little closer to the normal than Maryland. The greatest deficiencies in rain were reported in Washington, Frederick, and Carroll Counties of Maryland, and Kent and New Castle Counties of Delaware. Excessive precipitation was reported in Maryland, south of a line from Baltimore to Washington, in Kent, Queen Anne, Talbot, and Caroline Counties of Maryland, and in Sussex County, Delaware. The rainfall had excellent distribution through the month and very good distribution through the section.

Thunderstorms were reported from some portion of the section on the 1st, 2d, 4-7th, 10th, 11th, 13-16th, and 24th; heavy fogs on the 3d, 6th, 12-14th, 17-19th, 23d, 24th, 27th, and 30th; high winds on the 4th, 6th, 15th, 16th, 20th-22d, 25th, and 30th; and killing frosts, mostly in northern and western counties, on the 23d and 26-30th.

This month was generally good for crop development. Corn thrived during the month but some was frost damaged near the end of the month. At the end of the month, corn was being cut and shocked or ensiled, although harvesting on the Del-Mar Peninsula was more advanced. The crop was good or slightly better, except fair to good on the Del-Mar Peninsula. The ground was being prepared for winter grains with some fields of wheat, barley, and rye seeded. Early sown wheat fields in Garrett County were green. Truck crops were abundant during most of the month but supplies diminished rapidly during the latter part. The apple harvest continued with yields good to very good, except only fair on the Del-Mar Peninsula due to May frosts. Some peaches also were being picked. Late August rains greened the southern Maryland tobacco crop, delaying the harvest. However, the crop was in the barns by the end of the month. As the month came to an end, pastures were mostly good to very good, except fair and improving on the Del-Mar Peninsula, and fair to good but deteriorating in western counties on account of cold and dry weather.

TEMPERATURE

The monthly mean temperature for the section was 68.0 degrees, 0.2 degree above normal. The highest monthly mean temperature was 74.8 degrees at Crisfield, Maryland, and the lowest was 60.1 degrees at Sines, Maryland. The highest temperature, 95 degrees, occurred at Keedysville, Maryland, on the 14-15th; the lowest, 22 degrees, at Oakland, Maryland, on the 27th. The greatest local monthly range was 68 degrees at Hancock, Maryland, where a maximum of 92 degrees was reported on the 4th, 13th, and 15th, and 24 degrees on the 28th. The least monthly range was 44 degrees at Oxford, Maryland. Oxford had extreme maximum and minimum temperatures of 87 and 43 degrees on the 4th, 13th and 15th, and 26th, respectively.

PRECIPITATION

The monthly average for the section was 3.01 inches, which was 0.35 inch below normal. The greatest amount of precipitation for the month

was 5.43 inches at Lewes, Delaware. Williamsport, Maryland, reported the least amount for the month with 0.60 inch. The greatest 24-hour rainfall was 2.02 inches and was recorded at Annapolis, Maryland on the 6th.

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)

Precipitation, 3.13; evaporation, 4.063; average daily wind movement, 35.9.

PRESSURE, HUMIDITY, SUNSHINE, WIND, DEGREE DAYS

Stations	Atmospheric pressure reduced to sea level				Wind				Mean relative humidity			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.		Percentage of sunshine
Aberdeen, Md.	30.60	18	29.75	22	.....	.....	.....	.....	88	69	.....	.....	111
Annapolis, Md.	30.61	28	29.76	22	11.4	.....	.....	.....	80	68	76	.....	86
Baltimore, Md.	30.62	28	29.72	22	9.9	.....	nw.	30	81	67	71	.....	87
Bilkins, W. Va.	30.63	27	29.73	22	5.7	26	nw.	5	94	58	80	61	161
Harrisburg, Pa.	30.63	15	29.66	22	7.1	26	w.	15	84	66	69	66	125
Norfolk, Va.	30.61	27	29.79	25	10.5	30	nw.	25	85	63	77	58	39
Philadelphia, Pa.	30.64	28	29.71	22	7.8	24	nw.	30	89	64	77	56	95
Pittsburgh, Pa.	30.63	27	29.62	21	8.9	31	nw.	15	85	50	64	58	111
Washington, D. C.	30.62	27	29.75	22	6.7	25	sw.	15	85	62	74	68	87

COMPARATIVE DATA FOR SEPTEMBER

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	70.4	101	27	2.08	T.	4	71.2	99	39	1.92	0.0	4
1896	66.3	94	28	4.39	0.0	3	67.1	93	36	3.96	0.0	6
1897	66.7	100	22	1.67	0.0	3	67.9	97	40	1.55	0.0	3
1898	69.3	100	29	1.80	0.0	6	70.8	97	44	3.35	0.0	7
1899	65.3	99	25	4.35	0.0	7	68.4	92	39	3.81	0.0	9
1900	72.0	103	29	3.47	0.0	6	71.6	95	43	2.75	0.0	6
1901	66.4	94	29	3.08	0.0	8	68.1	94	42	2.45	0.0	6
1902	66.0	101	25	6.19	0.0	10	67.4	92	42	6.14	0.0	10
1903	66.0	98	24	1.97	0.0	5	67.2	90	36	3.29	0.0	6
1904	67.1	99	27	3.66	0.0	5	67.5	95	33	3.21	0.0	5
1905	67.0	94	24	2.68	0.0	6	67.8	91	38	4.81	0.0	8
1906	70.6	94	36	1.25	0.0	6	72.2	98	47	1.51	0.0	6
1907	68.2	95	30	6.21	0.0	12	69.6	93	35	6.39	0.0	11
1908	65.9	94	24	2.39	0.0	3	66.8	90	40	2.49	0.0	4
1909	65.4	92	23	3.35	0.0	5	66.5	87	39	2.94	0.0	5
1910	69.4	98	32	1.90	0.0	6	69.9	96	46	0.76	0.0	4
1911	69.2	95	30	2.80	0.0	8	69.6	91	41	2.00	0.0	6
1912	69.1	102	30	5.93	0.0	10	70.2	102	39	4.65	0.0	10
1913	66.5	102	22	2.35	T.	7	68.1	91	41	3.92	0.0	8
1914	64.6	98	21	1.20	0.0	4	66.5	87	34	0.68	0.0	3
1915	69.2	98	31	2.26	0.0	6	71.1	99	36	0.90	0.0	4
1916	65.1	98	26	3.39	0.0	7	66.5	94	38	3.64	0.0	6
1917	62.5	93	27	2.62	0.0	7	63.5	91	37	3.35	0.0	6
1918	63.2	88	27	3.73	0.0	8	64.2	87	37	3.92	0.0	8
1919	68.1	100	31	2.34	0.0	4	68.3	94	40	2.23	0.0	4
1920	67.7	92	35	3.11	0.0	6	68.4	89	40	2.67	0.0	6
1921	72.5	99	37	3.48	0.0	9	73.4	98	45	2.16	0.0	7
1922	68.6	100	27	2.61	0.0	4	68.9	88	39	2.26	0.0	4
1923	68.2	92	28	3.45	0.0	9	68.8	88	39	3.33	0.0	8
1924	62.9	101	30	6.06	0.0	12	64.8	88	40	5.68	0.0	11
1925	71.4	100	35	1.78	0.0	7	72.3	94	39	1.06	0.0	4
1926	67.8	93	33	5.15	0.0	11	68.5	93	44	3.81	0.0	7
1927	67.8	99	28	1.36	0.0	4	68.0	96	38	2.04	0.0	5
1928	63.1	92	28	4.45	0.0	10	64.9	93	34	6.57	0.0	12
1929	68.2	100	25	3.58	0.0	8	69.4	96	40	3.99	0.0	8
1930	72.9	102	33	1.31	0.0	6	73.8	100	42	2.80	0.0	5
1931	72.0	100	30	2.61	0.0	8	73.5	98	43	2.00	0.0	5
1932	67.9	106	25	2.20	0.0	6	69.3	97	37	2.20	0.0	6
1933	70.0	94	37	3.20	0.0	11	71.6	94	46	3.44	0.0	10
1934	68.5	92	36	9.36	0.0	14	70.0	90	46	9.12	0.0	13
1935	65.0	92	28	7.60	0.0	8	66.2	87	38	10.87	0.0	6
1936	69.3	97	29	2.14	0.0	7	69.5	92	42	4.79	0.0	9
1937	64.1	96	26	1.75	0.0	6	65.4	98	38	1.48	0.0	6
1938	65.6	92	32	5.80	0.0	13	67.3	90	39	8.36	0.0	12
1939	68.7	100	31	3.25	0.0	7	69.5	95	44	1.97	0.0	7
1940	64.4	95	25	3.35	0.0	6	65.6	91	32	3.20	0.0	6
1941	70.0	100	31	0.57	0.0	3	71.0	97	38	0.24	0.0	2
1942	68.0	95	19	3.03	0.0	8	69.3	92	32	2.75	0.0	8
1943	65.7	99	25	1.85	0.0	6	67.4	99	36	1.79	0.0	6
1944	67.9	95	32	4.86	0.0	12	69.9	96	39	6.36	0.0	10
1945	70.5	94	37	5.57	0.0	10	71.7	94	44	4.50	0.0	10
1946	67.9	99	30	3.61	0.0	7	68.8	94	40	2.91	0.0	6
1947	68.0	95	22	2.98	0.0	9	68.6	94	31	3.23	0.0	9
Period	67.6	106	19	3.36	T.	7	68.7	102	31	3.44	0.0	7

Climatological Data for September 1947

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 (With precip., Clear, Partly cloudy, Cloudy), Prevailing direction of wind, Observers.

All departures from normal are computed from the averages of the entire period for stations having 10 or more years of record, except that for First-Order Weather Bureau Stations they are based on adopted normals. The normal may be found by adding the departures when minus (-) or subtracting when plus (+). T. Trace or 0.05 inch or less rain or melted snow. † Recording gage. ‡ Data interpolated. § Elevation is of ground above mean sea level. ¶ Post addresses of these stations are as follows: Of Bell, Glendale; of Blackwater, Cambridge; of Charlotte Hall, Mechanicsville; of Coleman, Worton; of Edgemont, Smithsburg; of Ferry Landing, Owings; of Great Falls, Bethesda; of Peadry, Paw Paw, W. Va.; of Prettyboy Dam, Parkton; of Sines, Oakland; of Takoma Park No. 2, Silver Spring; of Tonoloway, Hancock. * Custom House, Gay and Water Sts. † Weather Bureau Building, 24th and M Sts. ‡ Also on other dates. § Municipal Building. ¶ Porter Reservoir. †† Water Pumping Station. ‡‡ University Farm. Figures and letters following station indicate distance and direction of the observation point from the City Post Office. ††† 1.8 miles west.

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, Baltimore Airport, Frederick Airport, Sines, Washington, and Wilmington are from midnight to midnight; at Ocean City and Snow Hill the thermometers are read at 1:30 a. m., the extremes are charged to the preceding day; at other stations temperatures are for a 24-hour period ending in late afternoon or near sunset, except 11 p. m., at Chestertown. † Data interpolated.

Daily Temperatures for September 1947—Continued

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