

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

This was a cool September, but it was featured by many clear, sunshiny, pleasant days. The 21st was summerlike. Cold weather was ushered in by strong northwest winds on the 25th and continued through the 28th. Rainfall was unevenly distributed over the Section, but averaged normal. Monthly totals were above normal over the central Eastern Shore, northern Montgomery County, and most of western and north-central Maryland, but deficient over the remainder of the Section. The areas of least monthly rainfall, one to two inches, were the southern third of the Eastern Shore, St. Marys and Charles Counties, the District of Columbia, and the upper Chesapeake Bay region.

Monthly sunshine was 10% above normal.

Crops, grasses, and pastures became good to excellent the first decade and continued mostly so thereafter. Digging early potatoes ended on the northern Eastern Shore the first week, in north-central Maryland the second week, and in western Maryland the third week, except began the first week and ended the fourth week in Garrett County. Digging sweet potatoes became general the second week. Gathering cantaloupes and watermelons ended the third week. Late potatoes were developing and sizing in the central and eastern divisions and late corn was maturing the second half of the month. Digging late potatoes began in western Maryland and barley came up nicely the last week. Harvesting tomatoes, sugar corn, beans, and truck crops and picking apples, peaches, and pears over the Section and threshing oats in Garrett County continued. Haying, threshing clover for seed, and cutting early corn and early and late tobacco were in progress. Buckwheat was harvested. Sowing wheat and rye began in Garrett County the second week and in Allegany and Washington Counties the last week. Crimson clover was sown.

Frosts and freezing temperatures during the nights of 25th, 26th, 27th, and 28th, damaged corn and froze other vegetation in Garrett County and caused some crop damage over the remainder of western Maryland; light to heavy frosts formed in the other divisions.

A severe northwest gust on the 25th demolished a large barn near Snow Hill; within the barn two negro farm hands and two mules were injured and three mules were killed. Several homes in Snow Hill were damaged by falling tree limbs.—*J. B., jr.*

TEMPERATURE

The monthly mean for the section, 64.5°, is 3.1° below normal. The highest monthly mean was 69.2° at Ocean City; the lowest, 55.8°, at Sines. The highest temperature, 95°, occurred at Dundalk on the 21st; the lowest, 25°, at Oakland on the 27th. The greatest local monthly range was 61° at Cumberland and Keedysville; the least, 36°, at Delaware Breakwater. The greatest daily range was 43° at Oakland on the 29th.

PRECIPITATION

The monthly average for the section, 3.33 inches, is 0.05 inch below normal. The greatest monthly amount was 7.20 inches at Frederick; the least, 1.00 inch, at Snow Hill. The greatest 24-hour rainfall was 4.79 inches at Prettyboy Dam on the 24-25th. The average number of days with 0.01 inch or more of precipitation, 6, is 1 below normal.

DEATHS

The death of two faithful observers for the U. S. Weather Bureau and the Maryland State Weather Service is announced with regret. Mr. Walter N. Page at La Plata passed away June 5, after a long siege of neuritis, during which he persevered with the observations and crop reporting. Mr. Charles Judefind at Rock Hall died on September 30; formerly postmaster, he undertook the climatological work in September, 1919, and continued it until his death, a period of 21 years. Both were prominent in community affairs.

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	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Aberdeen, Md.	30.33	28	29.51	10	7.2	24	n.	25	84	70	76	80
Annapolis, Md.	30.35	27	29.53	10	8.8	35	nw.	25	81	49	71	50
Baltimore, Md.	30.35	27	29.54	10	4.1	17	nw.	25	98	53	81	49
Elkins, W. Va.	30.42	29	29.58	10	5.9	28	n.	21	86	52	73	184
Harrisburg, Pa.	30.36	28	29.52	10	5.9	34	n.	25	85	60	79	103
Norfolk, Va.	30.32	18	29.58	25	7.5	41	n.	25	83	52	71	25
Philadelphia, Pa.	30.35	28	29.53	10	7.5	34	sw.	24	88	49	61	53
Pittsburgh, Pa.	30.37	30	29.53	10	5.8	24	nw.	25	80	49	66	99
Washington, D.C.	30.35	27	29.54	10	5.8	24	nw.	25	80	49	66	61

COMPARATIVE DATA FOR SEPTEMBER

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.....	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	8	67.1	93	36	3.96	0.0	7
1897.....	66.7	100	22	1.67	0.0	5	67.9	97	40	1.55	0.0	3
1898.....	69.3	100	29	1.80	0.0	3	70.3	97	44	3.35	0.0	3
1899.....	65.3	99	25	4.85	0.0	6	66.4	92	39	2.81	0.0	8
1900.....	72.0	103	29	3.47	0.0	7	71.6	95	43	2.75	0.0	8
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	6
1906.....	70.6	94	36	1.25	0.0	6	72.2	98	35	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	5
1909.....	65.4	92	23	3.35	0.0	6	66.8	96	46	0.76	0.0	4
1910.....	69.4	98	32	1.90	0.0	5	69.9	91	41	2.00	0.0	6
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	2.45	T.	7	68.1	91	41	3.92	0.0	8
1914.....	64.6	93	21	1.20	0.0	4	66.5	97	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	2.87	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	93	39	2.26	0.0	4
1923.....	68.2	92	28	3.45	0.0	9	68.8	88	39	3.93	0.0	8
1924.....	62.9	101	30	6.06	0.0	12	64.8	98	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	35	5.15	0.0	11	68.5	93	44	3.81	0.0	7
1927.....	67.8	99	26	1.36	0.0	4	68.0	96	38	2.04	0.0	7
1928.....	63.1	92	28	4.45	0.0	10	64.9	93	34	4.57	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	78.8	100	42	2.80	0.0	5
1931.....	72.0	100	30	2.61	0.0	6	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	3.36	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	10.97	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	93	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
Period.....	67.5	106	21	3.38	T.	7	68.6	102	32	3.49	0.0	7

Climatological Data for September 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., 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, 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, W. Va.; of Pleasant Hill, Owings Mills; of Prettyboy Dam, Parkton; of Sines, Oakland; of Tomoloway, Hancock. *Custom House, Gay and Water Sts. **Weather Bureau Building, 24th and M Sts. Also on other dates. †2 miles northwest of Frostburg. ‡Municipal Building. §Porter Reservoir. ¶University Farm. |||Water Pumping Station.

Daily Precipitation for September 1940

Stations	Drainage basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>Maryland</i>																																			
Aberdeen ^{2†}	Atlantic	.06		T.					.01	.45	.11																								.78
Annapolis ^{2†}	do.	.14						T.	.36	.47	.01	.03																						.69	
Baltimore ^{1†}	do.	.02	T.						.05	.02	.07															T.	1.11							.92	
Bell	do.	1.49							.22	.48	.04																							.92	
Cambridge (near)	do.	2.80							.25	.15	.36	.11																						.75	
Charlotte Hall	do.	.42							*	.14	.06	.27																						.81	
Cheltenham ⁴	do.	1.39							.33	.05	.30	.05																						.10	
Chestertown	do.	.42							.22	.22	.02	.01																						1.02	
Cheswille	do.	.03					T.		.02	.05	T.															T.	3.24							.64	
Coleman	do.	.40							T.	.22	.10																							.27	
College Park	do.	2.15							.20	.24	.05																							.07	
Conowingo Dam ⁴	do.	1.46							.97	.05	T.																							.07	
Crisfield	do.	.11							.26			.24	T.																					.07	
Dumbarland ⁴	do.	.76							.60	.20	T.																							.24	
Durham	do.	.64							T.	.26	T.																								.24
Dundalk ²	do.	T.	T.	T.					.25	T.	.06																							.06	
Easton	do.	4.44							.04	1.05	.14	.25																						.07	
Edgemont ⁴	do.	1.70							.10	.07	.06																							.07	
Elkton	do.	.08							T.	.30	.06																								.04
Emmitsburg	do.	.40							T.	.22	.05	.04																						.18	
Fallston	do.	1.79							T.	.22	.05	.04																						.09	
Ferry Landing	do.	1.62							.11	.24	.15	.28																						.03	
Frederick ⁴	do.	2.60							.02	.16	T.																							.03	
Friendsville	Ohio								*	.70	.18																							.13	
Frostburg	Atlantic								.50	.30	.08																							.22	
Georgetown	do.	T.							T.	.50	.06		T.																					.10	
Great Falls ⁴	do.	1.00							.22	.22	.12																							.09	
Hancock ⁴	do.	.21							.03	.20	T.																							.09	
Huntingtown	do.	.47							.13	.43	.08	.24																						.06	
Keadysville	do.	.04							.13	.05	.02																							.06	
Laurel	do.	3.39							.06	.07	.05																							.03	
Luke ⁴	do.	.90			T.				.05	.80	.02	T.	T.																					.13	
Lutherville	do.	2.50							T.	.10	.15																							.10	
Maryland Line	do.	1.26							*	.43																								.15	
Millington	do.	1.19							T.	.30	.14	.15																						.03	
Mt. Savage Summit [§]	do.	.54							.67	.37	.16																							.28	
Oakland	Ohio								.51	.03	.18																							.11	
Ocean City	Atlantic	.05							T.	.76	T.	.41	T.																					.11	
Oxford	do.	2.82							.02	.38	.08	.24																						.10	
Perryville ⁴	do.	.14								.75	.07																							.10	
Picardy	do.								.60	.40																								.05	
Pleasant Hill	do.	1.35							.03	T.	.06																							.02	
Pocomoke City	do.	.20								.20		.25																						.05	
Poolesville	do.	.65							.10	.16	.14																							.03	
Prettyboy Dam	do.	1.66							.19	.05	.05																							.15	
Princess Anne ³	do.	.20							.07		.08	.24																						.16	
Ridgely	do.	4.25							T.	.20	.21	.26																						.15	
Salisbury	do.	.35							T.	.20	T.	.35																						.15	
Silver Spring	do.	1.50							.21	.38	.05																							.08	
Simes ^{1†}	Ohio								.50	.01	.24																							.08	
Snow Hill	Atlantic	.20								.10		.20																						.20	
Solomons	do.	1.51							.07	.07	.15	.37																						.05	
State Sanatorium	do.	.25								.12	.02																							.07	
Stevensville	do.	.76							.03	.55	.10	T.																						.05	
Takoma	do.	.15							.22	.14	.05																							.13	
Tonoloway	do.								.47	.04	T.																							.08	
Towson ⁴	do.	3.62							T.	.09	.11																							.11	
Unionville	do.	.60							.28	T.																								.01	
Western Port	do.								.10	1.25	.03																							.12	
Westminster ⁴	do.	1.50								.03	.24																							.05	
Williamsport ⁴	do.	.73								.03	.01																							.03	
Woodstock	do.	1.33							.19	.12	.09																							.18	
Woodstock	do.	1.33							.19	.12	.09																							.18	
Washington, D. C. ^{1‡}	do.	T.							.02	.32	.01	.06	T.																				.01		
<i>Delaware</i>																																			
Bridgeville	Atlantic	1.40							.02	.34	.36	.28																						.14	
Delaware Breakwater	do.	.23							.16	.10	.44																							.03	
Delaware City	do.	1.66							T.	.72	.08																							.18	
Dover	do.	2.98							.17	.03	.22																							.01	
Milford	do.	1.50							.26	.17	.33	.34																							

Daily Temperatures for September 1940-Continued

Table with columns for Stations, 31 days (1-31), and Mean. Rows list various Maryland and Delaware locations such as Aberdeen, Annapolis, Baltimore, etc., with their respective temperature readings.

§§ 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, 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., 10-31-40-1,150)