

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

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In Cooperation with Maryland State Weather Service

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

September was dry and sunshiny. The least rainfall embraced western Maryland. Over most of the section monthly temperatures were 1° to 3° above normal, except 1° to 2° below normal over the extreme southern portion, in the Allegheny Mountain region, and in northern portions of Carroll, Montgomery, and Washington Counties. Maximum temperatures of the month, occurring on the 1st, were the highest of record in any September at nearly all stations; in the western half of Maryland they were slightly higher than on August 31, and were the highest for this year. Monthly sunshine was 10 per cent above normal. Relative humidity averaged 10 per cent below normal. Dry weather from 6th to 22d was interrupted on the Eastern Shore by moderate to heavy rain on 16th. Clear sunshiny periods were 9-13th, 17-19th, 24-25th, and 29-30th. There were no damaging winds.

The 1st and 2d were hot, with highest temperatures around 100°, except near 95° in the Allegheny Mountain region, along the shores of Chesapeake and Delaware Bays, and near the Atlantic Ocean. Very warm weather continued during 3d-5th, but with lower maximum temperatures. Change to cooler occurred on 6th. Cool periods were 7-12th, 18-19th, and 24-30th. Mild spells were 13-17th and 20th-23d. The coolest day was 30th.

Monthly rainfall was unevenly distributed over the section, and averaged 68 per cent of normal. Totals were between 2 and 3 inches, except 0.2 to 1 inch in Allegany and western Washington Counties, 1 to 2 inches in the Allegheny Mountain region, in northern Montgomery, Howard, and Baltimore Counties, and in northern and central portions of the Eastern Shore, 3 to 4 inches in southeastern Washington County, and between 3 and 5 inches in the District of Columbia, southeastern Montgomery, northern Prince Georges, southeastern Sussex, and Worcester Counties.

Growing crops were fair to good, but grasses and pastures were poor. Corn matured rapidly early in the month; cutting and shocking followed, and were completed; the crop was but fair. Silos were filled. Harvesting and canning sugar corn and tomatoes, harvesting truck, digging sweet potatoes, cutting and housing tobacco, and some plowing and harrowing were in progress. Picking cantaloupes, watermelons, peaches, early

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TEMPERATURE

The monthly mean for the section, 68.0°, is 0.2° above normal. The highest monthly mean was 71.6° at Solomons; the lowest, 58.7°, at Sines. The highest temperature, 106°; occurred at College Park on the 1st; the lowest, 25°, at Oakland on the 30th. The greatest local monthly range was 72° at Hancock; the least, 49°, at Baltimore and Coleman. The greatest daily range was 47° at Western Port on the 19th.

PRECIPITATION

The monthly average for the section, 2.20 inches, is 1.03 inches below normal. The greatest monthly amount was 4.98 inches at Pocomoke City; the least, 0.20 inch, at Picardy. The greatest 24-hour amount was 2.86 inches at Pocomoke City on the 15-16th. The number of days with 0.01 inch or more, 6, is 1 below normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fog, dense. — 2, 15, 19, 20, 22, 23; also on coast, 3.
 Frosts, killing. — Allegheny Mountain region, 25, 26, 30.
 Gales on coast. — Northwest, 8; northerly, 16.
 Halos, lunar. — 14, 15, 16, 20. solar. — 8, 15, 16, 19, 26.
 Rainbows. — Aberdeen, 3; Baltimore, 4; Grantsville, 14.
 Thunderstorms. — 2, 3, 4, 5, 14, 15, 23.
 Winds, high. — Entire section: Northwest, 8, 28; Eastern Shore: northerly, 16.

PRESSURE, HUMIDITY, SUNSHINE AND WIND

Stations	Atmospheric pressure reduced to sea level					Mean relative humidity			Sunshine		Wind †				
	Average	Highest	Date	Lowest	Date	8 a. m.	Local n. n.	8 p. m.	Hours	Percentage	Average hourly velocity	Direction			Date
												Miles	Direction	Highest	
Aberdeen, Md.	30.08	30.52	26	29.62	16	80	54	74	252	67	6.5	s.	30	n.	8
Baltimore, Md.	30.07	30.50	26	29.62	16	70	48	57	282	76	9.9	s.	31	ne.	8
Elkins, W. Va.	30.12	30.45	26	29.84	16	98	51	73	230	69	4.2	nw.	18	nw.	17
Harrisburg, Pa.	30.07	30.50	26	29.64	16	74	48	51	272	73	6.9	n.	26	nw.	25
Norfolk, Va.	30.08	30.47	26	29.63	16	78	56	73	259	69	11.3	s.	85	n.	7
Philadelphia, Pa.	30.08	30.53	26	29.57	16	74	47	54	258	69	12.0	n.	40	n.	8
Pittsburgh, Pa.	30.09	30.42	25	29.76	3	76	42	47	262	70	8.7	nw.	28	sw.	4
Washington, D. C.	30.08	30.50	26	29.63	16	75	49	59	272	73	6.4	s.	21	n.	8

† Velocity of wind in miles per hour by 4-cup anemometer.

COMPARATIVE DATA FOR MARYLAND AND DELAWARE FOR SEPTEMBER

Years	Temperature			Precipitation				Number of days				
	Mean	Highest	Lowest	Average	Greatest local	Least local	Greatest 24-hour rain	Average snow-fall	Rainy	Clear	Partly cloudy	Cloudy
Normals..	67.8	.....	.....	3.23	.....	.....	.....	T.	7	16	8	6
Extremes..	.....	106	21	.....	12.93	0.20	6.07	.....	.....	.....	.....	.....
1895.....	70.6	101	27	2.04	5.90	0.24	4.80	T.	4	19	9	2
1896.....	66.6	98	29	4.33	8.07	1.13	4.50	0.0	7	14	9	7
1897.....	66.8	100	21	1.88	3.37	0.50	2.17	0.0	3	21	6	3
1898.....	69.5	100	29	1.85	4.28	0.51	2.50	0.0	6	20	6	4
1899.....	65.4	99	25	4.70	9.43	0.77	5.35	0.0	7	18	8	4
1900.....	72.0	103	29	3.40	8.23	0.40	3.80	0.0	6	16	8	6
1901.....	66.5	95	29	3.03	6.46	1.33	2.52	0.0	8	15	8	7
1902.....	66.1	101	25	6.19	12.68	1.38	6.00	0.0	10	13	8	9
1903.....	66.1	98	23	2.10	4.15	0.58	2.64	0.0	5	18	8	4
1904.....	67.1	99	27	3.61	6.22	1.05	5.90	0.0	6	15	9	6
1905.....	67.1	94	24	2.91	6.19	1.37	2.48	0.0	6	18	8	4
1906.....	70.8	98	28	3.76	3.74	0.22	1.75	0.0	6	14	10	6
1907.....	68.4	95	30	6.23	10.95	2.46	4.40	0.0	12	12	11	7
1908.....	66.0	94	24	2.40	5.14	0.48	3.02	0.0	3	16	8	6
1909.....	65.5	92	23	3.30	5.71	1.18	1.90	0.0	5	14	10	6
1910.....	69.5	98	32	1.78	3.97	0.27	1.98	0.0	6	16	9	5
1911.....	69.3	95	30	2.72	6.38	0.92	2.18	0.0	7	13	11	6
1912.....	69.3	102	30	5.77	9.85	2.07	6.07	0.0	11	13	9	8
1913.....	66.8	102	22	2.83	5.31	1.32	3.26	0.0	7	14	9	7
1914.....	64.8	98	21	0.93	3.09	0.40	1.36	0.0	4	20	6	4
1915.....	69.4	99	31	2.06	5.19	0.43	3.10	0.0	6	18	9	3
1916.....	65.3	98	26	3.43	5.70	1.82	2.85	0.0	7	19	7	4
1917.....	62.6	93	27	2.73	4.96	1.31	2.00	0.0	7	15	8	7
1918.....	63.3	93	27	3.76	5.66	1.96	2.20	0.0	8	16	8	6
1919.....	68.1	100	31	2.32	4.09	0.75	2.22	0.0	4	18	7	5
1920.....	67.7	92	35	3.08	5.10	1.14	3.80	0.0	6	18	7	5
1921.....	72.6	99	37	3.33	7.69	0.26	3.95	0.0	9	15	10	5
1922.....	68.3	100	27	2.37	7.30	0.69	5.35	0.0	4	18	8	6
1923.....	68.3	92	28	3.51	7.27	1.22	3.00	0.0	9	16	6	6
1924.....	63.2	101	30	6.02	8.07	3.83	4.53	0.0	12	11	6	13
1925.....	71.6	100	35	1.69	3.84	0.35	1.97	0.0	6	15	10	5
1926.....	67.9	99	35	5.00	7.51	2.11	2.83	0.0	11	10	10	10
1927.....	67.8	99	26	1.43	3.79	0.49	2.90	0.0	4	18	8	4
1928.....	63.3	93	28	4.67	8.73	2.17	3.79	T.	10	11	8	11
1929.....	68.3	100	25	3.62	7.73	0.68	4.00	0.0	8	14	11	5
1930.....	73.0	102	33	1.47	4.34	0.26	3.20	0.0	6	15	12	3
1931.....	72.2	100	30	2.54	5.32	0.88	3.30	0.0	8	18	8	4
1932.....	68.0	106	25	2.20	4.98	0.20	2.86	0.0	6	14	11	5

Climatological Data, September, 1932

Table with columns for 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, With precip. 0.01 in. or more, Clear, Partly cloudy, Cloudy), Prevailing direction of wind, and Observers. Includes data for Maryland, District of Columbia, and Delaware.

The departures from normal temperature and precipitation are computed only for such stations as have 10 or more years of record, but all complete reports are used in determining section or division means. 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 Coleman, Worton; of Fallston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Pleasant Hill, Owings Mills. †Also on other dates. *Custom House, Gay and Water Sts. **Weather Bureau Building, 24th and M Sts. ††Prettyboy Dam. †††Drum Point Light Station. ††††Municipal Building. †††††Porter Reservoir.

Daily Precipitation for September, 1932

Stations	Watershed	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**	Atlantic...	.10	.54	.46	1.46	T.																	.18				.61	.05					3.40	
Annapolis.....	do.	..	.35	..	.52	.32																T.	.83	.09			.21	.02					2.34	
Baltimore***	do.	.08	..	.53	.48								T.									T.	.08			T.	.29	.01					1.47	
Bell.....	do.	.02	.01	.21	1.34	1.45																T.	.45	.36			.26	T.					4.10	
Boyd's.....	do.	1.12	T.	T.	.27	.09																T.	.10	.06	T.		.28	T.					1.92	
Cambridge(near)	do.	T.				.80								T.	.85								T.	.15			.12	T.					2.02	
Cecilton.....	do.		.16	T.	.25	1.20									T.								T.	.17			.26	T.					2.04	
Cheltenham.....	do.	.48	.09	.12	.18	1.60																T.	.07	.19	T.		.20	.08					2.95	
Chewsville.....	do.	.76	.70	.24	T.	.02																	T.	.07	T.		.57	.21					2.57	
Clear Spring.....	do.																																	
Coleman.....	do.		.12	.16	.27	.80										T.								.10	.10		.50	.05						2.10
College Park.....	do.	.04	.14	.68	.45	2.36										T.	1.16						T.	.02	.29		.84	T.					4.32	
Crisfield.....	do.	T.				.88																												2.98
Cumberland|||	do.	T.														.10												.16	.26				0.52	
Darlington.....	do.		.55	T.	T.	.63																		T.	.40			.61	T.					2.19
Easton.....	do.	T.				.64									T.	.61												.56	.18	.08				2.07
Elkton.....	do.		.20	T.	.16	.24										T.								T.	T.			.31	.05					0.96
Emmitsburg.....	do.	.80		.20	T.	T.									.27								T.	T.			.75	.10					2.12	
Fallston.....	do.	T.	T.	.22	.61	.29																			.76	.02		.43	T.					1.73
Ferry Landing.....	do.	T.	.09	T.	.67	1.06									.09								T.	T.	.24		.20	.03						2.38
Frederick.....	do.	.71		.01	T.	1.37																		.14	.04			.67	.03					2.97
Friendsville.....	Ohio	.04												T.	.10								T.	T.	T.		T.	.50	.40					1.04
Frostburg.....	Atlantic	T.		.05												.02												.21	.35					0.63
Grantsville.....	Ohio	.04												T.	.18	T.												.55	.40					1.15
Great Falls|||	Atlantic		.24	T.	.82	1.19																						.16	.06					2.79
Hancock (Tonoloway)	do.	T.		.09											.02													.21	.08					0.40
Hancock (City)|||	do.	T.													.27													.11	.13					0.54
Keedysville.....	do.	1.37	.58	.15	T.	1.04																	.05	T.			.80	.02						4.01
La Plata.....	do.	.04	.70	.03	T.	1.09										.08								.04	.33		.20	.05						2.86
Laurel.....	do.	.55	.04	.36	.47	.82																			.02		.21	T.						3.77
Luthersville.....	do.	.61	.06	T.	.02	.10																					.36	.04						1.54
Maryland Line.....	do.					.87									T.	*												.66						2.33
Mechanicsville.....	do.	.20	T.	T.	T.	.87										1.00											.20	.05						2.32
Millington.....	do.		.15	T.	.73	.65										.12											.08	.13						2.03
Oakland.....	Ohio	.46		.09										T.	T.											.05	.60	.23		T.				2.12
Parkton§	Atlantic		.25		T.	.22	.74								T.	T.												.57	.21					1.99
Picardy.....	do.	T.		.10											T.	T.												.05	.05					0.20
Pleasant Hill.....	do.	.50		T.	T.																							.35	T.					0.85
Pocomoke City.....	do.	T.				1.38										2.86											.18		.16	.40				4.98
Princess Anne.....	do.	T.				1.12										.03	1.10									.20	.05		T.	.42				2.92
Ridgely.....	do.	.01			.55	.18										.73											.05		.13	.05				1.70
Rock Hall.....	do.		.05	T.	.71	.45											T.									.06	T.		.30	T.				1.57
Salisbury.....	do.	.14				1.68										T.	1.12											.08		.10	.10			3.12
Sines**	Ohio	.04		.12											T.	.04													.08	.39	.32			1.08
Snow Hill.....	Atlantic	.40				1.30	T.									T.	2.50												.40					4.60
Solomons§§	do.	T.	T.	T.	.20	1.00										T.	.58											.10	.20					2.53
State Sanatorium	do.	.74		.33	T.	T.										T.								.02	T.			.70	.20					1.99
Stevensville.....	do.	.04	T.	.50		.76										T.											.35	T.		.75				2.40
Takoma.....	do.	.16		.06	.45	.06	2.02																					.25	T.					3.63
Towson.....	do.	.01				.40																						.10	T.					0.61
Western Port.....	do.	.04		.30												.06												.18	.02					1.02
Westminster.....	do.	1.10		T.	.07	T.										T.												.50	T.					2.53
Woodstock.....	do.	.35	.01	T.	T.	.67																						.80	.01					1.34
<i>District of Columbia</i>																																		
Washington***	Atlantic		.15	T.	.51	1.64																				.14	.02	1.54		.02	.22	T.		4.24
<i>Delaware</i>																																		
Bridgeville.....	Atlantic		T.			.18										.60													.17	T.				0.95
Delaware City.....	do.		T.	T.	.12	.70										.20												.60		.40	T.			2.02
Dover.....	do.	.16	T.			.20	.39									.68												.35		.11	.08			1.97
Millford.....	do.	.27	T.			.04	.11									.56												.08		.20	.11			1.37
Millsboro.....	do.		T.			1.25	.45									1.90												.15		.30	.10			4.15
Wilmington§§§	do.	.12		.27	T.	*	.14									.03												1.87	.03		.36	.08		2.57
Wilmington§§§§	do.	*		.72	T.	.02	.11																					1.65		.38	.09			2.97

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 is for 24-hour period, midnight to midnight. |||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. §Prettyboy Dam. §§Drum Point Light Station. §§§Municipal Building. §§§§Porter Reservoir. *Precipitation included in following measurement.

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apples, and early pears ended, and picking late apples and keiffer pears began. Haying ended. During the second and third decades late potatoes, yielding poor to fair, were being dug in western

Maryland, some wheat was sown in the Allegheny Mountain region, and some barley was sown locally in north-central Maryland; grains sown during the second decade came up during the third. Streams and wells were very low. — J. B., jr.

Daily Temperatures for September, 1932

Table with columns for Stations, days 1-31, and Mean. Rows include Maryland stations (Aberdeen to Washington, D.C.) and Delaware stations (Bridgeville to Wilmington).

†Instruments are read in morning; maximum temperature then read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Baltimore, Sines, and Washington are from midnight to midnight; other stations, except Cumberland, are for 24-hour period ending late in afternoon, near sunset. Data in italics determined from preceding stations.