

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

This April was dry, windy, and slightly warmer than normal. The average rainfall was slightly more than one-half of normal, which is the lowest April average since April 1924, the driest April of record. Days with strong winds were frequent. Days with fog were not many. Monthly snowfall averaged a trace, as in April 1945, or 1.0 inch below normal, and was the least in April since 1941, when no snow fell. Monthly sunshine was 5% above normal. A generous rain fell on the 25th over the Eastern Shore and the central division of the section.

The 2d, 15th, and 23d were warm days. Mild temperatures prevailed during the 3d-6th, 9th, 14th, 16-20th, 22d, and 24th. The other days of the month were cool. The coolest period was the 10-13th. The coolest day was the 8th. The warmest day was the 2d or 23d.

Monthly rainfall was unevenly distributed over the section. The area of least monthly rainfall, 0.5 to 1.0 inch, embraced Allegany, Washington, Frederick, Carroll, western Howard, and northern Montgomery Counties. Worcester County was the area of greatest monthly rainfall, 3.5 to 4.5 inches. Monthly rainfall was between 3.0 and 3.5 inches over Somerset and Wicomico Counties; between 2.0 and 3.0 inches over southern Maryland, the Eastern Shore counties of Maryland from Dorchester County northward to and including Kent County, and Sussex, Kent, and southern New Castle Counties of Delaware; and between 1.0 and 2.0 inches over Garrett County, the eastern and southern portions of north-central Maryland, the District of Columbia, and Cecil and northern New Castle Counties.

Light snow fell on the 12th and 27th in the Allegheny Mountain region.

Wheat, barley, rye, oats, grasses, and pastures were good to excellent and were growing. Wheat, barley, and rye were heading during the third decade in eastern and southern localities.

Much plowing, sowing clover, oats, and grasses, planting peas and early potatoes, and sowing and planting truck crops and gardens were in progress, except in the Allegheny Mountain region. Early planted peas and vegetables and early sown oats were up and were growing nicely. Later planted peas, early potatoes, later planted truck crops and gardens, and later sown oats came up during the third decade. Tomato and tobacco seeds sown in beds were coming up. Bedded sweet potatoes were sprouting.

Peach, pear, cherry, apple, and strawberry blossoms were damaged considerably by frost and freezing temperatures on the 11th and 13th; they were damaged heavily on the 18th, the damage being 90 to 95% over the interior of the Eastern Shore. Fruit blossoms over western Maryland were damaged also on the 28th.

While tree fruit and strawberry blossom losses were heavy over the greater portion of the section, some areas escaped much damage. Apple blossoms were not frozen at Smithsburg. Tree fruits and strawberries were setting or were set in the eastern and southern counties during the third decade.

The growing season was 2 to 3 weeks ahead of normal.

TEMPERATURE

The monthly mean for the section, 52.9°, is 0.6° above normal. The highest monthly mean was 58.6°, at Crisfield; the lowest, 46.2°, at Sines. The highest temperature, 92°, occurred at Fort George G. Meade on the 23d; the lowest, 16°, at Oakland on the 11th. The greatest local monthly range was 67° at Bell; the least, 44°, at Annapolis.

PRECIPITATION

The monthly average for the section, 1.88 inches, is 1.61 inches below normal. The greatest monthly amount was 4.43 inches at Snow Hill; the least, 0.46 inch, at Cumberland. The greatest 24-hour rainfall was 2.99 inches at Snow Hill on the 25th. The average monthly snowfall for the section, a trace, is 1.0 inch below normal. The greatest 24-hour snowfall was 2.0 inches at Oakland on the 12th. The greatest monthly snowfall was 2.1 inches at Oakland.

MISCELLANEOUS PHENOMENA (WITH DATES)

Corona, lunar.—Frostburg, 14. Fogs, light.—4, 8, 9, 14, 23, 25-27, 30. Fogs, heavy.—9, 14, 30. Halos, lunar.—15, 17, 19. Halos, solar.—15, 16, 17. Hail, light.—Western Port, 30. Killing frosts and freezing temperatures.—1, 6, 7, 8, 10, 13, 14, 17, 18, 21, 28. Steel, light.—Frederick and Unionville, 8. Thunderstorms.—Over section, 2; Crisfield, 29; Sines and Western Port, 30. Winds, high.—1, 7, 9, 10, 12, 14-16, 18-20, 26-28. Frostburg.—Apple and cherry blossoms mostly frozen.

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	Date	7:30 a. m.	1:30 p. m.			7:30 p. m.
Aberdeen, Md.	30.54	21	29.37	26	.....	.....	.....	72	48	56	.....	418
Annapolis, Md.	30.58	21	29.37	26	11.1	.....	.....	65	47	54	.....	849
Baltimore, Md.	30.57	21	29.42	26	11.3	84	sw.	6	61	64	64	290	
Elkins, W. Va.	30.49	21	29.60	26	8.1	35	w.	5	82	60	44	485	
Harrisburg, Pa.	30.56	21	29.44	26	9.5	33	n.	5	65	61	52	404	
Norfolk, Va.	30.54	21	29.40	26	10.3	25	sw.	15	70	61	63	230	
Philadelphia, Pa.	30.52	21	29.34	26	8.7	26	n.w.	3	68	42	51	61	366
Pittsburgh, Pa.	30.51	21	29.58	26	10.9	44	w.	4	71	48	56	44	485
Washington, D. C.	30.56	21	29.44	26	8.5	26	n.w.	4	63	41	48	61	285

COMPARATIVE DATA FOR APRIL

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	52.4	89	18	5.17	0.1	9	52.1	89	28	5.39	0.0	10
1896	55.9	97	12	1.42	0.7	8	55.9	89	22	1.46	T.	6
1897	52.1	94	15	2.97	0.1	8	52.8	89	26	3.18	0.0	7
1898	50.3	86	7	2.67	2.4	11	50.1	82	21	3.60	1.8	12
1899	53.1	94	14	1.60	0.3	4	52.3	84	22	1.56	T.	3
1900	52.3	86	16	1.93	0.4	6	53.2	79	24	2.39	T.	6
1901	49.1	90	15	5.74	2.0	11	49.9	81	31	5.12	0.0	9
1902	51.7	102	16	3.38	2.8	8	52.4	90	27	4.25	T.	9
1903	52.4	95	13	4.06	T.	9	52.8	98	25	3.66	T.	9
1904	49.1	87	10	2.47	0.2	9	49.5	84	24	2.40	T.	7
1905	52.8	88	8	2.82	0.6	9	52.7	85	26	5.07	T.	7
1906	54.1	96	10	3.23	T.	7	54.4	89	26	2.35	0.0	11
1907	47.0	86	9	3.33	T.	10	47.4	83	28	3.36	0.5	11
1908	54.5	90	19	2.30	T.	19	55.3	87	24	2.51	T.	11
1909	52.6	89	5	3.51	0.9	10	53.7	86	25	4.30	T.	10
1910	55.9	92	20	5.58	0.2	12	57.1	87	28	3.85	0.0	9
1911	48.9	88	0	3.20	1.5	11	49.7	79	25	3.66	T.	11
1912	54.7	87	21	2.72	T.	12	54.3	83	27	2.83	T.	11
1913	53.9	90	11	4.41	T.	10	55.2	83	29	5.14	T.	10
1914	51.5	89	15	3.89	0.1	10	52.5	85	24	3.38	T.	9
1915	56.9	100	10	1.56	4.5	6	57.8	97	25	2.44	9.8	6
1916	51.4	89	17	3.10	4.3	12	51.5	87	28	2.42	1.1	12
1917	52.4	90	14	2.41	4.0	8	52.4	89	24	2.52	2.6	8
1918	51.0	83	15	5.90	5.7	12	52.3	81	25	4.33	0.2	10
1919	51.7	88	11	3.34	0.1	7	52.4	81	21	3.31	T.	7
1920	50.8	88	12	4.77	0.6	14	52.3	84	26	3.33	T.	10
1921	58.0	92	16	3.13	0.7	10	58.5	88	26	3.61	3.6	12
1922	54.0	93	17	1.84	0.1	9	54.2	88	28	2.32	0.0	9
1923	51.5	88	-3	4.15	1.1	9	52.0	83	11	4.22	0.1	8
1924	50.0	83	13	4.94	5.8	12	50.4	79	20	5.52	2.4	12
1925	55.2	97	20	2.49	0.2	11	55.3	89	25	2.96	0.0	12
1926	49.9	89	18	1.72	0.5	9	50.8	88	25	1.91	T.	10
1927	49.9	91	18	4.91	1.7	14	50.3	94	28	3.09	1.2	14
1928	49.9	85	14	5.85	4.4	12	50.8	82	23	5.88	0.6	12
1929	55.4	94	25	6.44	0.2	14	56.0	95	32	6.74	0.0	13
1930	50.6	93	18	2.54	0.6	9	50.7	85	25	1.99	T.	8
1931	51.3	84	18	3.05	1.6	9	51.9	78	28	3.31	0.0	9
1932	50.3	84	16	2.18	0.4	8	51.6	80	29	2.52	T.	8
1933	52.8	88	20	5.44	0.1	11	53.1	80	28	4.22	0.0	10
1934	51.9	86	19	2.60	0.2	10	52.0	82	29	3.13	T.	11
1935	49.9	92	14	3.76	2.3	10	50.9	85	30	3.81	T.	11
1936	49.6	90	11	2.82	0.3	11	51.2	85	28	3.01	T.	12
1937	51.1	94	19	6.52	0.2	12	52.3	88	28	5.19	T.	11
1938	54.8	94	19	1.76	0.2	8	55.3	88	25	1.87	T.	8
1939	51.2	93	16	5.03	0.2	16	52.0	88	27	5.66	T.	15
1940	48.2	84	13	5.92	1.8	13	47.9	80	22	5.69	2.2	15
1941	56.9	97	17	2.94	0.0	5	56.3	91	28	3.19	0.0	6
1942	55.8	96	18	1.12	0.1	4	55.1	91	25	1.03	0.0	4
1943	48.5	86	5	3.20	0.5	11	49.3	84	18	3.46	T.	10
1944	51.0	84	13	4.10	0.5	14	51.2	83	22	4.87	0.9	13
1945	56.2	90	20	3.65	T.	12	55.6	87	26	3.81	0.0	14
1946	53.0	92	16	1.82	T.	8	52.0	87	25	2.27	0.0	9
Period	52.2	102	-3	3.48	1.1	10	52.7	90	11	3.47	0.5	10

Climatological Data for April 1946

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.

All departures from normal are computed from the averages of the entire period for stations having 10 or more years of record... Thermometers are read in morning; maximum temperature then read is charged to preceding day...

Daily Precipitation for April 1946

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

Except as otherwise indicated, amounts are for 24-hours ending late in afternoon. 1Midnight to midnight; recording gage. 2Measured in the morning; for the preceding 24-hours. 3Data for 24-hours ending at 1:30 a. m. of following day. T. Trace or 0.005 inch or less. *Included in next measurement. ITALICS Data interpolated. †First-order Weather Bureau station. ‡Water Pumping Station. §University Farm. ¶Municipal Building. **Porter Reservoir. ††Midnight to midnight.

Daily Temperatures for April 1946

Table with columns for Stations (Delaware), Day of month (1-31), and Mean. Rows list Delaware stations (Bridgeville, Delaware City, Dover, Lewes, Millsboro, Newark, Wilmington, Washington, D.C.) with their maximum and minimum temperatures for each day.

Daily Temperatures for April 1946-Continued

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

See page 14 for explanation of reference marks.

(WBO, Philadelphia, Pa. - 9-17-46-1200)