

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

In Cooperation with Maryland State Weather Service

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

J. R. WEEKS

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VOL. XLI BALTIMORE, MD., APRIL, 1936 No. 4

GENERAL SUMMARY

This April was windy and cool. Departures below normal of monthly mean temperatures were 1° greater over the western half than over the eastern half of the section. Cold days were 3d-4th, 8-9th, 17-19th, and 22d-25th. Mild days were 6th, 16th, 20th, 26th, and 28th. Warm days were 15th, 21st, and 29-30th.

Monthly precipitation averaged somewhat below normal. Totals were 3 to 5 inches in the Allegheny Mountain region; 3 to 4 inches in the extreme northern Piedmont Plateau, in the southwest and extreme south portions of the Eastern Shore, and in central Delaware; and 2 to 3 inches over the remainder of the section, except less than 2 inches in Howard and Montgomery Counties.

Snowfall was confined to the Allegheny Mountain region, where light falls occurred on the 3d, 18th, and 21st-22d, and flurries on the 6th, 7th, 12th, 16th, and 19th. Flurries occurred in the other divisions on the 3d, 4th, and 9th, in western Maryland on the 17th, and in Allegany and Washington Counties on the 18th.

The first decade was cloudy and wet; the second and third decades were sunny and dry. Monthly sunshine was about 5 per cent below normal.

Little field work was possible during the first decade. Plowing, sowing, and planting, long-delayed by wet weather, advanced rapidly during the second and third decades in eastern and central divisions and became general during the third decade in western Maryland. Wheat, rye, and barley were good to excellent. Grasses were fair to good. During the third decade: Grains were 4 to 12 inches high; rye was jointing on the Eastern Shore; earliest planted peas were up in eastern and central divisions; earliest planted early potatoes were coming up in southern counties; earliest sown oats were up; tobacco plants were good; tomato seeds in beds were up; early-bedded sweet potatoes were sprouting; apple trees were in full bloom in southern counties and were blooming in northern counties, except leafing in western Maryland; peach, pear, and cherry trees and strawberry plants were fruiting in southern portions and were in full bloom in northern portions of the eastern and central divisions, and were blooming in western Maryland, except Garrett County. Frosts of the 23d-25th killed early strawberries and some tree fruit blossoms in central and southern portions of the Eastern Shore and some tree fruit blossoms in western Maryland. The growing season, except for fruits and grains, was very backward of normal, due to the wet weather of March. — J. B., jr.

TEMPERATURE

The monthly mean for the section, 49.8°, is 2.3° below normal. The highest monthly mean was 53.0° at Solomons; the lowest, 40.7° at Sines. The highest temperature, 90°, occurred at Takoma on the 15th; the lowest, 11°, at Friendsville on the 4th. The greatest local monthly range was 71° at Friendsville; the least, 48° at Stevensville. The greatest daily range was 50° at Boyds on the 20th.

PRECIPITATION

The monthly average for the section, 2.84 inches, is 0.61 inch below normal. The greatest monthly amount was 4.58

inches at Grantsville; the least, 1.69 inches at Great Falls. The greatest 24-hour amount was 2.00 inches at Emmitsburg on the 5-6th. The monthly average snowfall for the section, 0.3 inch, is 0.9 inch below normal. The average number of days with .01 inch or more of precipitation, 11, is 1 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Anvoras.—Annapolis, 3, 28, 29; Grantsville, 19. Corona, lunar.—Ferry Landing, 29.
 First cat bird.—Princess Anne, 29. First Whippoorwill.—La Plata, 25.
 Fogs, light.—2, 3, 5 to 7, 10 to 14, 26, 28, 29. Fogs, dense.—2, 10, 12.
 Frosts, killing.—23, 24, 25.
 Hall, light.—Frederick and Lutherville, 2; Princess Anne, 3; Chewsville and Sines, 15.
 Halos, lunar.—3, 24. Halos, solar.—4, 8, 22, 27, 28.
 Rainbow.—Baltimore and Dundalk, 12.
 Sleet, light.—9. Sundog.—Baltimore, 27.
 Thunderstorms.—2, 3, 5, 6, 12, 15, 26.
 Winds, strong.—South, 5, 25, 29; southwest, 6, 15(thundergust), 20; north west, 2, 3, 4, 7, 8, 16, 17, 21(gale), 26.

PRESSURE, HUMIDITY, SUNSHINE AND WIND

Stations	Atmospheric pressure reduced to sea level				Wind				Mean relative humidity			Percentage of sunshine	
	Average	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	8 a. m.	Local n n		8 p. m.
Aberdeen, Md.	30.06	30.53	9	29.42	2	11.5	34	n.	21	71	..	60	..
Annapolis, Md.	30.05	30.51	9	29.39	2	10.8	..	..	21	64	57	64	..
Baltimore, Md.	30.05	30.54	9	29.43	2	12.2	40	nw.	21	63	56	58	55
Elkins, W. Va.	30.07	30.53	8	29.39	2	8.2	30	nw.	7	76	56	60	45
Harrisburg, Pa.	30.03	30.50	9	29.41	2	8.9	28	w.	16	65	53	61	49
Norfolk, Va.	30.09	30.55	9	29.46	2	10.2	29	n.	15	69	51	68	65
Philadelphia, Pa.	30.05	30.55	9	29.44	2	13.9	46	s.	6	68	54	57	53
Pittsburgh, Pa.	30.02	30.50	8	29.39	2	12.1	49	nw.	15	72	57	61	46
Washington, D.C.	30.05	30.52	9	29.39	2	8.8	31	nw.	21	61	45	50	50

COMPARATIVE DATA FOR APRIL

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.....	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	6	55.9	99	22	1.46	T.	6
1897.....	52.1	94	15	2.97	0.1	4	52.8	89	26	3.18	0.0	7
1898.....	50.3	86	6	2.67	2.4	11	50.1	82	21	1.56	T.	8
1899.....	53.1	94	14	1.60	0.3	4	52.2	89	22	1.50	T.	3
1900.....	52.3	85	15	1.93	0.4	6	52.2	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	93	25	3.66	T.	7
1904.....	49.1	87	10	2.47	0.2	9	49.5	84	24	2.40	T.	9
1905.....	52.8	88	8	2.82	0.6	9	52.7	85	26	3.07	T.	9
1906.....	54.1	96	10	3.23	T.	7	54.4	89	26	2.35	0.0	7
1907.....	47.0	86	9	3.33	2.0	10	47.4	83	23	3.36	0.5	11
1908.....	54.5	90	19	2.30	T.	19	55.3	87	24	2.81	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.....	54.9	100	10	1.56	4.3	6	57.8	97	25	2.44	0.3	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	28	4.38	0.2	10
1919.....	51.7	88	11	3.34	0.1	7	52.4	81	21	3.91	T.	7
1920.....	50.8	88	12	4.77	0.6	14	52.3	84	26	3.93	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	5.6	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	1.97	T.	10
1927.....	49.9	81	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	92	23	5.89	0.6	12
1929.....	55.4	94	25	6.44	0.2	14	56.8	85	32	6.74	0.0	13
1930.....	50.6	83	18	2.54	0.6	9	50.7	85	25	1.99	T.	8
1931.....	51.3	84	18	3.05	1.6	8	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	5.42	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
Period.....	52.0	102	-3	3.45	1.3	10	52.6	99	11	3.46	0.6	10

Climatological Data for April, 1936

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				Number of days			Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	With precip. 0.01 in. or more	Clear			Partly cloudy	Cloudy
<i>Maryland</i>																				
Aberdeen	Harford	26	18	50.0	-1.1	85	21	29	4	42	2.56	-0.79	0.91	T.	9	5	11	14	s.	U. S. Army.
Annapolis	Anne Arundel	45	71	51.1	-2.3	86	21	31	14	44	2.10	-1.60	0.70	T.	10	6	11	13	nw.	U. S. Navy.
Baltimore*	Baltimore	14	66	51.8	-1.8	86	21	32	14	41	2.56	-0.78	0.72	T.	14	6	9	15	sw.	U. S. Weather Bureau.
Bell†	Prince Georges	151	16	50.9	-1.5	87	21	26	23	48	2.02	-1.90	0.71	T.	10	8	9	13	nw.	Bureau Plant Industry.
Boys	Montgomery	375	17	49.4	-2.8	86	15	25	18	50	1.72	-1.32	0.60	T.	10	9	10	11	nw.	Ralph F. Staley.
Cambridge (near)	Dorchester	13	43	52.3	-2.4	84	21	30	23	39	3.11	-0.55	0.90	T.	11	15	4	11	s.	Matt Harding.
Cecilton	Cecil	85	18	50.6	-1.8	85	30	28	4	33	2.13	-1.59	0.75	T.	7	10	10	10	w.	Harry D. Boulden.
Cheltenham	Prince Georges	230	36	50.0	-4.0	86	21	28	4	42	2.87	-0.97	0.74	T.	11	9	7	14	nw.	U. S. Magnetic Obs'v.
Cheverly	Washington	630	39	46.7	-3.9	82	30	23	23	40	2.46	-0.47	1.11	T.	13	7	12	11	nw.	D. Paul Oswald.
Clear Spring	do.	560	39	49.0	-1.6	82	30	25	8	43	2.74	-0.72	1.01	T.	11	8	10	12	w.	Mrs. Anna Bevan Cobill.
Coleman††	Kent	80	39	50.8	-2.2	85	30	30	14	34	2.04	-1.40	0.67	T.	9	10	10	10	sw.	Walter B. Harris.
College Park	Prince Georges	160	49	51.2	-1.8	87	21	26	23	47	2.27	-1.15	0.76	T.	10	8	9	13	nw.	Prof. Thos. H. White.
Croft	Somerset	623	17	49.6	-2.5	87	15	27	14	45	3.00	-0.09	1.65	T.	11	7	11	12	...	A. B. Cochran.
Cumberland	Allegany	360	46	48.1	-3.3	83	21	28	14	39	2.98	-0.98	0.92	T.	9	6	11	13	w.	W. R. E. King.
Darlington	Harford	12	2	50.6	-1.1	87	21	31	8	42	2.24	-0.58	0.78	T.	10	4	13	13	w.	Fred. C. Jones.
Dundalk	Baltimore	36	2	50.6	-1.1	87	21	31	8	42	2.24	-0.58	0.78	T.	10	4	13	13	w.	U. S. Airway Station.
Easton	Talbot	35	46	49.8	-3.5	82	121	30	25	38	3.50	+0.14	0.88	T.	11	12	7	11	sw.	Clement E. Bray.
Elkton	Cecil	28	10	49.6	-4.9	85	30	28	14	36	2.86	-0.59	1.15	T.	9	10	9	11	nw.	H. W. Bouchelle.
Emmitsburg	Frederick	720	68	48.6	-3.2	82	30	26	8	35	3.93	+0.41	2.00	T.	11	9	9	12	w.	Mt. St. Mary's College.
Fallston††	Harford	450	67	49.1	-1.6	83	115	27	8	38	2.56	-1.12	1.01	T.	12	6	12	12	sw.	Miss Dora Curtiss.
Ferry Landing††	Calvert	120	20	52.8	-0.7	86	21	29	4	38	2.84	-0.88	0.90	T.	11	10	7	13	nw.	Thos. J. Bourne.
Frederick	Frederick	325	62	51.0	-1.9	87	30	26	8	45	2.79	-0.60	1.61	T.	10	9	9	12	w.	August T. Brust.
Friendsville	Garrett	1,980	18	44.2	-3.5	82	30	11	4	43	3.62	+0.13	1.20	4.5	17	6	8	16	w.	Joab J. Friend.
Frostburg	Allegany	1,950	35	45.8	-3.9	78	128	19	8	38	3.16	-0.62	1.60	T.	15	7	9	14	w.	F. T. Lewis.
Grantsville	Garrett	2,320	43	41.7	-4.3	79	28	14	4	42	4.58	+0.81	1.30	7.2	19	6	8	16	w.	Floyd J. Miller.
Great Falls††	Montgomery	200	47	51.2	-1.9	87	29	28	19	48	1.69	-1.53	0.60	T.	7	5	11	14	nw.	Chas. E. Sullivan.
Hancock (Tonoloway)	Washington	550	26	47.9	-3.9	88	30	21	23	49	3.00	-0.43	1.38	T.	12	8	10	12	...	American Fruit Growers.
Hancock (City)	do.	540	12	49.0	-2.9	89	30	25	23	46	2.60	-0.57	1.10	T.	13	7	11	12	nw.	Marvin K. Murray.
Keedysville	do.	420	32	50.0	-2.9	89	30	25	23	46	2.60	-0.57	1.10	T.	13	7	11	12	nw.	J. A. Miller.
La Plata	Charles	190	22	52.0	-2.5	86	21	28	4	40	3.02	-0.59	0.86	T.	12	11	5	14	sw.	Walter M. Page.
Laurel	Prince Georges	300	42	50.6	-2.0	86	21	29	14	41	1.97	-1.64	0.63	T.	12	7	10	13	sw.	Evan G. Chaney.
Lutherville	Baltimore	340	10	49.4	-1.1	85	15	26	25	43	2.80	-1.62	0.95	T.	10	7	11	12	sw.	Clarence J. Thomson, Jr.
Maryland Line	do.	840	12	48.6	-1.2	84	30	25	8	38	2.92	-1.10	1.00	T.	10	7	10	13	w.	Chester L. Fulton.
Millington	Kent	27	39	51.6	-1.6	84	121	29	24	40	2.28	-1.24	0.90	T.	9	11	9	10	w.	Henry L. Higman.
Mt. Savage Summit††	Garrett	2,852	4	43.2	-3.0	80	28	17	8	41	3.76	-0.16	1.33	3.1	20	6	8	16	w.	U. S. Airway Station.
Oakland	do.	2,420	37	43.2	-3.0	80	28	17	8	41	3.76	-0.16	1.33	3.1	20	6	8	16	w.	R. E. Weber.
Parkton§	Baltimore	780	6	48.3	-3.0	83	30	26	8	37	3.41	-0.87	1.87	T.	10	10	10	10	...	C. W. Hendrix.
Picardy	Allegany	1,080	10	48.4	-2.1	86	30	24	14	39	2.91	-0.85	1.18	T.	10	7	11	12	w.	American Fruit Growers.
Pleasant Hill††	Baltimore	660	12	48.4	-2.1	86	30	24	14	39	2.91	-0.85	1.18	T.	10	7	11	12	w.	J. E. Henry.
Princess Anne	Somerset	17	61	51.4	-2.6	82	115	29	25	41	3.38	-0.13	1.68	T.	9	11	8	11	sw.	James R. Stewart.
Ridgely	Caroline	57	46	52.2	-0.8	84	121	30	14	40	3.14	-0.18	0.94	T.	10	10	9	11	nw.	Albert White.
Rock Hall	Kent	20	22	51.5	-1.1	82	129	31	8	34	2.29	-1.25	0.75	T.	10	11	9	10	nw.	Charles Judefind.
Salisbury	Wicomico	25	31	52.4	-1.7	82	21	30	123	38	2.71	-0.53	1.40	T.	8	15	6	9	sw.	Homestead Dairy Farms.
Sines (Deep Creek)††	Garrett	2,030	11	40.7	-3.1	78	28	17	8	45	3.96	-0.12	1.44	2.0	18	6	8	16	...	C. E. MacMurray.
Snow Hill	Worcester	20	21	51.2	-1.1	80	21	27	25	40	3.30	+0.18	1.50	T.	9	13	7	10	nw.	Richard Leake.
Solomons	Calvert	20	45	53.0	-1.0	82	21	32	14	37	2.85	-0.13	1.23	T.	9	11	6	13	nw.	Chesapeake Biological L'b.
State Sanatorium	Frederick	1,460	28	47.2	-3.7	80	30	22	8	37	2.70	-0.82	1.45	T.	13	9	9	12	...	Dr. V. F. Cullen.
Stevensville	Queen Annes	12	10	52.0	-0.4	80	121	32	4	32	3.80	-0.54	1.50	T.	10	9	9	12	s.	T. R. Price.
Takoma	Montgomery	820	38	52.4	-0.6	90	15	27	4	42	1.97	-1.44	0.75	T.	9	5	12	13	...	Guy L. Seaman.
Towson	Baltimore	475	25	49.6	-2.8	81	21	28	8	38	2.98	-0.44	1.44	T.	12	11	8	11	nw.	Charles E. Prince.
Western Port	Allegany	1,000	43	48.7	-3.1	82	115	25	14	43	3.73	+0.74	1.20	T.	20	...	...	...	...	Norris Bruce.
Westminster	Carroll	770	27	49.2	-2.8	86	30	25	8	41	3.66	+0.34	1.89	T.	11	7	11	12	sw.	Harry J. Mathias.
Woodstock	Baltimore	415	67	49.4	-2.9	86	30	26	25	45	1.99	-1.33	0.77	T.	10	5	12	13	w.	Woodstock College.
<i>Dist. of Columbia</i>																				
Washington**	do.	72	66	52.2	-1.1	86	21	30	4	43	1.98	-1.29	0.66	T.	11	7	10	13	nw.	U. S. Weather Bureau.
<i>Delaware</i>																				
Bridgeville	Sussex	45	46	51.4	-1.7	84	121	29	18	40	2.65	-0.65	0.89	T.	11	15	6	9	nw.	William M. Ray.
Delaware City	New Castle	12	50	50.6	-1.5	82	21	29	4	39	2.90	-0.24	1.02	T.	13	12	8	10	nw.	James E. Maden.
Dover	Kent	34	47	51.3	-1.8	83	21	30	8	33	3.24	-0.28	1.26	T.	11	10	10	10	nw.	Arthur G. Livingston.
Milford	Sussex	20	54	52.2	-1.5	85	30	30	14	40	3.75	+0.13	1.00	T.	14	10	11	9	nw.	Chas. J. Holzmuller.
Millsboro	do.	20	44	51.9	-0.9	84	21	28	25	39	2.55	-1.07	0.87	T.	11	15	6	9	nw.	Wm. T. Moore.
Wilmington§§§	New Castle	42	43	51.9	-0.9	84	21	28	25	39	2.55	-1.07	0.87	T.	11	15	6	9	nw.	Street Department.
Wilmington§§§§	do.	260	25	49.6	-2.8	81	21	28	8	38	2.98	-0.44	1.44	T.	12	11	8	11	nw.	Water Department.
<i>Means and extremes:</i>																				
For Maryland and District of Columbia	do.	...	...	49.6	-2.4	90	15	11	4	50	2.82	-0.63	2.00	0.3	11	8	9	13	nw.	...
For Delaware	do.	...	...	51.2	-1.4	85	30	28	18	40	3.01	-0.45	1.44	T.	12	12	8	10	nw.	...
For entire section	do.	...	...	49.8	-2.3	90	15	11	4	50	2.84	-0.61	2.00	0.3	11	9	9	12	nw.	...

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

Daily Temperatures for April, 1936

Table with columns for Stations, 1-31, and Mean. Rows list various Maryland and Delaware locations such as Aberdeen, Annapolis, Baltimore, etc., with their respective daily 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, Dundalk, Sines, and Washington are from midnight to midnight; other stations, except Cumberland and Cheltenham, are for 24-hour period ending late in afternoon, near sunset. (W. B. O., Richmond, Va.,--7-136-950)