

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

J. R. WEEKS

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

VOL. XLIII BALTIMORE, MD., APRIL 1939 No. 4

GENERAL SUMMARY

This month was cool and very wet. The first and second decades were cold and windy; the third decade was mild. The 15-19th and 26-30th were wet periods. The 2d-5th and 21st-24th were clear, sunny periods. Monthly sunshine was about 5% below normal.

Snow flurries occurred on the 2d, 3d, 6th, 7th, 8th, 13th, and 30th and light snow fell on the 4th and 12th and at night of the 8th in the Allegheny Mountain region. Snow flurries occurred during the night of the 8-9th over the northern and central portions of the section eastward of the Allegheny Mountains and on the 12th in Allegany, Washington, and Frederick Counties.

On the 13th and 14th freezing temperatures and frosts damaged apple buds and plum, apricot, cherry, peach, and pear blossoms in Allegany and Washington Counties, damaged peach and pear blossoms in the central and eastern divisions, and damaged early vegetable plants and early strawberry blossoms on the Eastern Shore and in southern Maryland.

Wheat, rye, and barley were good to excellent. Pastures and grasses improved and were mostly good. Planting early potatoes, peas, other vegetables, corn, and gardens, and sowing oats, clover, and tomato and tobacco seeds, and bedding sweet potatoes were in progress, except not yet begun in the Allegheny Mountain region. During the last week of the month: Rye was heading in the eastern and central divisions; early pea plants were good to excellent; earliest planted potatoes were coming up or were up; oats and tomato, tobacco, and sweet potato plants were good stands; peach and pear trees were setting fruit, apple trees were shedding blossoms, and strawberry plants were blooming in southern and central counties; and peach, pear, and apple trees were in full bloom and strawberry plants were budding or were budded in the northern counties, except peach and pear trees were ready to bloom, apple tree buds were swelling, and strawberry plants were not yet budding in the Allegheny Mountain region.—*J. B., jr.*

TEMPERATURE

The monthly mean for the section, 51.3°, is 0.5° below normal. The highest monthly mean was 55.8° at Crisfield; the lowest, 41.2°, at Mt. Savage Summit. The highest temperature, 93°, occurred at Leonardtown on the 25th; the lowest, 16°, at Mt. Savage Summit on the 8th and 13th and at Oakland on the 8th. The greatest local monthly range was 68° at Hancock; the least, 50°, at Crisfield and Delaware Breakwater. The greatest daily range was 50° at Hancock on the 24th.

PRECIPITATION

The monthly average for the section, 5.12 inches, is 1.67 inches above normal. The greatest monthly amount was 7.10 inches at Elkton; the least, 3.44 inches, at Mt. Savage Summit. The greatest 24-hour rainfall was 2.78 inches at Elkton on the 26th. The monthly average snowfall for the section, 0.2 inch,

is 0.9 inch below normal. The greatest 24-hour snowfall was 2.2 inches at Sines on the 8th. The average number of days with 0.01 inch or more of precipitation, 16, is 6 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Aurora: Night 24. *Catbird, first:* Princess Anne, 21.
Fogs: 1 to 4, 6, 10 to 12, 14 to 30. *Hail, light:* 18.
Frosts: 4, 5, 8, 9, 13, 14, 23. *Rainbow:* Ferry Landing, 1.
Eclipse, solar: 19. *Winds, high:* 1 to 4, 6, 7, 10 to 13, 19, 21.
Thunderstorms: 1, 18, 19, 21, 26; also, Sines, 27 to 30.

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.			Local n'n	7:30 p. m.
Aberdeen, Md.*	30.39	14	29.50	1	11.2	29	nw.	12	71	55	54	53	436
Annapolis, Md.	30.39	14	29.53	1	10.0	40	sw.	12	65	55	55	57	388
Baltimore, Md.	30.40	14	29.54	1	12.0	31	nw.	30	79	52	57	39	367
Elkins, W. Va.	30.57	13	29.54	1	8.0	31	nw.	11	50	55	51	59	542
Harrisburg, Pa.*	30.36	17	29.52	1	10.0	34	sw.	11	70	55	51	59	499
Norfolk, Va.	30.45	14	29.55	1	11.8	33	s.	6	73	49	59	59	492
Philadelphia, Pa.	30.40	17	29.45	2	13.4	40	s.	6	75	64	68	52	446
Pittsburgh, Pa.*	30.51	13	29.50	1	12.7	38	nw.	12	78	59	61	43	486
Washington, D. C.	30.44	13	29.53	1	8.8	26	nw.	12	68	50	55	47	366

* Observations taken at airport station.

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	4.7	15	52.8	89	26	3.18	0.0	7
1898	50.3	86	6	2.87	2.4	12	50.1	82	21	3.60	1.8	12
1899	59.1	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	93	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	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.	16	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	56.9	100	10	1.56	4.5	6	57.8	87	25	2.44	9.3	6
1916	51.4	89	17	3.10	4.3	12	51.5	87	23	2.42	1.1	12
1917	52.4	90	14	2.41	4.0	12	52.4	89	24	2.52	2.6	8
1918	51.0	83	15	5.90	5.7	12	52.3	81	28	4.33	0.2	10
1919	51.7	88	11	3.34	0.7	8	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	3.31	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	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
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
Period	51.7	102	-3	3.45	1.2	10	52.8	99	11	3.46	0.5	10

Climatological Data for April 1939

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.						Precipitation, in inches				Number of days				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				Prevailing direction of wind	
															Clear	Partly cloudy	Cloudy			
<i>Maryland</i>																				
Aberdeen	Harford	26	21	50.6	-0.5	86	25	28	13	34	4.78	+1.43	1.77	T.	12	7	10	13	nw.	U. S. Army
Annapolis	Anne Arundel	45	74	52.4	-0.9	83	25	31	13	31	5.34	+1.64	1.23	T.	15	11	5	14	se.	U. S. Navy
Baltimore*		14	69	53.4	-0.2	89	25	32	13	31	5.92	+2.58	2.74	T.	14	10	6	14	sw.	U. S. Weather Bureau
Bell†	Prince Georges	151	19	51.8	-0.4	83	25	22	5	46	5.02	+1.10	1.20	T.	17	10	8	12	sw.	Bureau Plant Industry
Boyd's	Montgomery	875	20																	Ralph F. Staley
Cambridge (near)	Dorchester	13	46	54.5	0.0	83	25	29	14	37	4.93	+1.27	1.20	0.0	17	16	2	12	nw.	Matt Harding
Charlotte Hall	St. Marys	167	19	54.2	+1.0	87	25	27	5	39	5.13	+1.35	1.00	0.0	13	13	5	12	nw.	A. D. V. Burr
Cheltenham	Prince Georges	230	39	51.8	-1.9	83	25	24	5	38	5.00	+1.16	1.20	T.	18	13	5	12	nw.	U. S. Magnetic Obs'v.
Chestertown	Kent	35	34	51.8	-0.4	83	25	25	5	38	6.04	+2.74	1.37	T.	15	12	7	11	nw.	Thomas W. Eliason, Jr.
Chesapeake	Washington	630	42	47.9	-1.4	83	25	22	5	42	4.62	+1.69	1.10	T.	16	7	12	11	nw.	D. Paul Oswald
Coleman††	Kent	80	42	51.2	-1.7	84	25	29	13	34	8.89	+5.45	1.62	T.	15	14	5	11	nw.	Walter B. Harris
College Park	Prince Georges	160	53	52.4	-0.5	90	25	25	15	46	4.75	+1.33	1.64	T.	17	9	10	11	nw.	Russell G. Brown
Conowingo Dam	Harford	40	4	49.0		90	25	26	13	44	5.47	+1.94	1.94	T.	15	8	10	12	nw.	Susquehanna Electric Co.
Crisfield	Somerset	5	20	55.8	+1.2	83	25	33	14	31	3.99	+0.41	1.08	0.0	15	13	6	11	sw.	Arthur B. Cochrane
Cumberland	Allegany	623	69	49.9	-2.1	82	25	24	8	47	8.65	+0.56	0.90	T.	14	9	6	15	nw.	Paul Stein
Darlington	Harford	360	49	49.8	-1.5	88	25	26	13	40	5.31	+1.95	1.86	T.	15	8	10	12	nw.	Fred. C. Jones
Dundaik	Baltimore	12	5	52.2		90	25	31	13	34	4.18	+1.06	1.06	T.	15	8	10	12	nw.	U. S. Airport Station
Easton	Talbot	35	49	53.4	+0.3	89	25	29	5	38	4.92	+1.56	1.42	0.0	17	15	3	12	w.	Clement E. Bray
Edgemont	Washington	920	1								5.76			T.	14					John Masters
Elkton	Cecil	28	13	50.8	-0.5	88	25	27	5	39	7.10	+3.69	2.78	T.	15	15	3	12	nw.	H. W. Bouchelle
Emmitsburg	Frederick	720	73	50.2	-1.5	85	25	28	15	34	4.98	+1.46	0.97	T.	17	8	9	13	nw.	Mt. St. Mary's Seminary
Fallston††	Harford	450	70	50.2	-0.5	87	25	25	13	33	5.34	+1.66	1.90	T.	15	7	11	12	nw.	Miss Dora Curtiss
Ferry Landing††	Calvert	120	23	53.6	+0.2	88	25	28	15	35	5.22	+1.50	1.12	0.0	18	12	7	11	nw.	Thos. J. Bourne
Frederick	Frederick	325	70	51.6	-1.2	87	25	27	15	40	5.44	+2.05	1.89	T.	16	9	9	12	w.	August T. Brust
Friendsville	Garrett	1,980	21	44.7	-2.5	80	25	17	9	41	6.90	+3.41	1.25	3.0	19	6	6	18	nw.	Joab J. Friend
Frostburg	Allegany	1,950	38	46.6	-2.8	86	25	19	8	37	4.87	+1.09	1.27	T.	16	9	4	17	w.	Thos. F. Lewis
Georgetown	Cecil	25	3	52.4		85	25	31	15	35	6.22		1.40	T.	15	15	3	12	nw.	Capt. N. L. Biggin
Grantsville	Garrett	2,320	46																	Floyd J. Miller
Great Falls††	Montgomery	200	51	52.0	-0.9	89	25	24	5	46	4.73	+1.51	1.48	T.	15	7	12	11	nw.	John E. Bisset
Hancock (City)	Washington	549	19								4.51	+1.08	0.97	T.	15					Marvin K. Murray
Hancock (Tonoloway)	do	550	29	49.2	-2.2	89	25	21	5	50	5.42	+1.99	1.27	T.	13	9	10			American Fruit Growers
Huntingtown	do	160	4	53.4		90	25	26	5	38	6.23		1.15	0.0	18	14	4	12	nw.	Elmer O. Bowen
Keedysville	Washington	420	36	50.6	-2.1	90	25	25	14	45	3.85	+0.68	0.74	T.	15	8	11	11	nw.	J. A. Miller
La Plata	Charles	190	25	53.6	-0.6	88	25	27	14	41	5.02	+1.41	1.20	0.0	15	13	5	12	nw.	Walter M. Page
Laurel	Prince Georges	300	45	52.0	-0.5	89	25	28	15	42	4.47	+0.86	1.53	T.	16	10	9	11	nw.	Evans G. Chaney
Leonardtown	St. Marys	50	15	55.6	+1.5	93	25	28	5	41	3.81	-0.23	1.28	0.0	18	11	7	12	nw.	Dr. Eugene C. Peck
Luke	Allegany	950	2								4.81		0.94	T.	17					J. G. Patrick
Lutherville	Baltimore	340	13	50.5	-0.4	87	25	25	14	41	4.70	+0.12	1.24	T.	17	11	8	11	w.	Clarence J. Thomson, Jr.
Maryland Line	do	840	15	48.9	-1.2	86	25	25	13	33	5.17	+1.82	1.50	T.	15	11	8	11	nw.	Chester L. Fulton
Millington	Kent	27	42	52.9	-0.2	85	25	28	5	37	6.46	+2.94	1.79	T.	16	14	4	12	sw.	Henry L. Higman
Mt. Savage Summit††	Garrett	2,852	7	41.5		82	25	16	18	39	3.44		1.19	0.9	21	5	7	18	nw.	U. S. Airway Station
Oakland	do	2,420	42	43.4	-2.6	80	25	16	8	44	6.54	+2.62	1.33	4.4	21	5	7	18	nw.	R. E. Weber
Oxford	Talbot	10	3	54.4		87	25	34	13	33	4.13		1.28	0.0	18	14	5	11	sw.	Henry Wilcox
Perryville	Cecil	40	4								6.10		1.84	T.	15					J. H. Tullis
Picardy††	Allegany	1,030	13	49.1	-1.6	86	25	22	8	40	4.18	+0.37	1.02	T.	13	9	10	11	nw.	American Fruit Growers
Pleasant Hill††	Baltimore	1,660	15								4.42	+1.06	1.15	T.	17	11	8	11	nw.	Walter P. Quintin, Jr.
Prettyboy Dam††	do	780	9	49.0		85	25	26	15	35	4.80		1.16	T.	15					C. W. Hendrix
Princess Anne	Somerset	17	64	53.6	-0.3	85	25	28	14	37	4.30	+0.79	1.42	0.0	11	6	13	11	sw.	James R. Stewart
Ridgely	Caroline	67	49	53.4	+0.4	86	25	29	5	36	5.75	+2.43	1.38	0.0	17	13	5	12	sw.	Albert White
Rock Hall	Kent	20	26	51.8	-0.7	84	25	29	14	37	5.25	+1.71	1.35	T.	18	14	5	11	sw.	Charles Judefund
Salisbury	Wicomico	31	34	54.5	+0.5	87	25	28	14	37	5.90	+2.66	1.50	0.9	13	12	6	12	sw.	Brady C. Bounds
Silver Spring	Montgomery	310	1	52.5		88	25	29	15	39	5.34		2.46	T.	15	8	11	11	n.	O. L. Harvey
Sines (Deep Creek)††	Garrett	2,030	15	43.0	-1.8	80	25	17	8	47	6.52	+2.41	1.40	4.2	22	4	8	18	nw.	C. E. MacMurray
Snow Hill	Worcester	20	24	54.8	+2.6	86	25	27	14	41	3.70	+0.58	0.80	0.0	13	11	7	12	nw.	Richard Leake
Solomons	Calvert	20	43	54.9	+0.9	86	25	33	15	34	3.60	+0.62	0.66	0.0	13	11	7	12	nw.	Chesapeake Biological L'b.
State Sanatorium	Frederick	1,460	11	48.7	-1.9	86	25	24	15	32	4.57	+1.03	0.84	T.	13	8	9	13	nw.	Dr. V. F. Culien
Stevensville	Queen Annes	12	13	53.4	+0.7	85	25	30	5	32	4.80	+0.55	1.25	T.	16	9	10	11	nw.	T. R. Price
Takoma	Montgomery	320	41	53.6	+0.7	92	26	28	5	42	5.00	+1.89	2.28	T.	15	8	11	11	nw.	Guy L. Seaman
Towson	Baltimore	475	28								4.92	+1.40	1.32	T.	14	12	6	12	w.	S. Elmer Parks
Western Port	Allegany	1,000	46	50.0	-1.6	89	25	23	8	47	5.00	+2.01	1.34	T.	16					Norris Bruce
Westminster	Carroll	770	30	49.8	-1.9	86	25	25	13	36	4.56	+1.24	0.97	T.	14	11	8	11	w.	Harry J. Mathias
Williamsport	Washington	360	1								4.10		0.77	T.	15					R. C. Willson
Woodstock	Baltimore	415	70	50.4	-1.8	86	25	24	14	44	4.84	+1.52	1.56	T.	15	9	10	11	nw.	Woodstock College
<i>Dist. of Columbia</i>																				
Washington**		72	69	53.4	+0.1	90	25	31	13	39	3.78	+0.51	1.09	T.	15	10	7	13	nw.	U. S. Weather Bureau
<i>Delaware</i>																				
Bridgeville	Sussex	45	49	52.5	-0.4	87	25	28	5	38	5.20	+1.90	1.31	0.0	17	13	5	12	sw.	William M. Ray
Delaware Breakwater	do	40	4	51.4		82	25	32	13	26	3.46		0.74	0.0	14	12	6	12	nw.	U. S. Airway Station
Delaware City	New Castle	10																		

Daily Precipitation for April 1939

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

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.
1 First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.
2 Precipitation is for 24-hour period, midnight to midnight.
3 Precipitation is for 24-hour period, 9:30 p.m. to 9:30 p.m.
4 Precipitation is measured in the morning; amount then recorded is for the preceding 24 hours.
5 Precipitation is measured with recording gage.
6 Precipitation is included in the next measurement.
7 Trace, or precipitation is less than .01 inch.
8 Two miles northwest of Frostburg.
9 Municipal Building.
10 Porter Reservoir.

Daily Temperatures for April 1939

Table with columns for Stations, Day of month (1-31), and Mean. Rows list various locations in Maryland and Delaware with their maximum and minimum temperatures for each day.

Daily Temperatures for April 1939-Continued

Table with columns for Stations, days 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, Conowingo Dam, Dundalk, Sines, and Washington are from midnight to midnight; other stations, except Cheltenham and Cumberland, are or 24-hour period ending late in afternoon, near sunset, except 9:30 p. m. at Princess Anne. (WBO, Richmond, Va., 7-27-39-1,050)