

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

VOL. XLII BALTIMORE, MD., MARCH 1938 No. 3

GENERAL SUMMARY

March, rather windy, was warm, with precipitation three-fourths of normal. Periods of cloudiness were 3d-4th, 13-17th, and 29th-31st; of abundant sunshine, 21st-25th and 27-28th. Monthly sunshine was 5 per cent below normal. The maximum temperature of 88° was the highest temperature recorded in March since 1921.

The weather was cold on the 1st and 4th and cool on the 10-11th and 15-16th; otherwise, the temperatures were mild or warm. The outstanding warm period was 19-24th.

Monthly precipitation totals were mostly between 2 and 3 inches, except 3 to 4.1 inches over the southern third of the section and 3 to 4.6 inches in the Allegheny Mountain region.

Monthly snowfall averaged 1.2 inches below normal in Maryland and 0.5 inch above normal in Delaware. Totals were a trace over the southern third of the section, 1 to 6 inches over the central third, and 2 to 9 inches over the northern third.

Light snow fell over the section on the 3d and 10th, except flurries occurred over the southern third. Light snow fell on the 8th and 12th and flurries occurred on the 5th, 6th, 11th, and 24th in the Allegheny Mountain region.

Winter grains were growing, were good color, and were good condition, except the late sown were fair. Pastures and grasses were greening and improved. Activities included plowing, fencing, cutting wood, spreading fertilizer, stripping tobacco, pruning and spraying fruit trees, and sowing tobacco seed. Planting peas, early potatoes, truck crops, and gardens and sowing oats and grass seed were in progress during the month in the southern counties and during the third decade in the northern counties, except Garrett County. Plum trees bloomed during the first and second decades. During the third decade peach and pear trees were in full bloom in the southern counties and in bud or blooming in the northern counties, except Garrett County; and early planted peas, early sown oats and early sown tobacco seed in beds came up to good stands in the southern counties. — J. B., jr.

TEMPERATURE

The monthly mean for the section, 46.9°, is 4.5° above normal. The highest monthly mean was 50.4° at Crisfield and Salisbury; the lowest, 40.6°, at Mt. Savage Summit. The highest temperature, 88°, occurred at Cumberland on the 22d; the lowest, 6°, at Mt. Savage Summit on the 1st. The greatest local monthly range was 75° at Cumberland; the least, 52°, at Delaware Breakwater. The greatest daily range was 52° at Western Port on the 5th.

PRECIPITATION

The monthly average for the section, 2.72 inches, is 0.85 inch below normal. The greatest monthly amount was 4.61 inches at Friendsville; the least, 1.59 inches at Delaware City. The greatest 24-hour amount was 1.25 inches at Millsboro on the 10th. The monthly average snowfall for the section, 3.7 inches, is 1.0 inch below normal. The greatest monthly snowfall was 9.0 inches at Rock Hall. The average number of days with 0.01 inch or more of precipitation, 14, is 4 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light: 2 to 7, 9 to 11, 13 to 23, 26, 30, 31.
Fogs, dense: 3, 5, 6, 11, 14 to 18, 26, 30, 31.
Frogs, first croaking: College Park, 5; Princess Anne, 6.
Halo, lunar: 9. Halos, solar: 4, 9, 11, 23, 25, 27.
Rainbow: Frostburg, 30. Robin, first: Princess Anne, 5.
Sleet, light: 3, 4, 5, 6, 10. Sundog: Takoma, 25.
Thunderstorms: 5, 13, 14, 16, 17, 18, 22, 24, 26, 30.
Winds, high: 1, 2, 3, 5, 6, 7, 8, 10, 13, 14, 15, 23, 24, 26, 27.

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 with 40 in. or more	Maximum velocity	Direction	7:30 a. m.	Local "n	7:30 p. m.		
Aberdeen, Md.	30.42	28	29.47	5	10.5	30	nw.	27	78	64	611	
Annapolis, Md.	30.40	28	29.50	5	9.1	32	nw.	6	74	63	535	
Baltimore, Md.	30.41	28	29.51	5	10.8	36	sw.	1	69	54	496	
Elkins, W. Va.	30.42	28	29.56	5	7.2	30	w.	23	83	59	550	
Harrisburg, Pa.	30.40	28	29.49	5	8.3	27	w.	1	70	58	633	
Norfolk, Va.	30.43	28	29.53	10	10.9	29	e.	10	78	56	350	
Philadelphia, Pa.	30.40	28	29.50	5	13.6	34	s.	23	69	58	597	
Pittsburgh, Pa.	30.38	28	29.48	5	12.2	34	nw.	27	78	61	558	
Washington, D. C.	30.41	28	29.51	5	7.9	30	nw.	6	72	55	478	

COMPARATIVE DATA FOR MARCH

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	39.8	74	-7	2.94	3.5	9	40.9	69	19	3.61	1.2	9
1896	36.4	72	-13	4.26	14.6	9	38.2	74	12	4.74	3.8	10
1897	44.4	82	12	2.93	0.7	10	44.5	80	20	2.72	3.8	8
1898	47.5	84	7	3.80	3.0	11	48.2	78	22	2.67	1.0	9
1899	40.9	77	-1	4.79	3.7	11	42.0	72	20	5.32	3.4	11
1900	37.3	74	-8	3.23	13.2	9	38.4	69	6	3.72	6.0	10
1901	42.6	81	-9	3.50	1.9	9	42.7	74	8	3.60	0.6	7
1902	44.7	80	-3	3.92	10.5	10	46.2	75	16	3.74	3.5	10
1903	49.2	85	15	5.12	0.2	10	49.9	79	23	6.10	0.0	9
1904	49.2	87	15	2.99	2.0	10	47.2	74	17	3.42	1.4	10
1905	45.4	88	-15	3.16	2.2	10	44.4	83	11	3.12	0.6	11
1906	30.7	68	-8	4.83	11.3	13	38.5	63	14	6.11	4.3	13
1907	46.1	93	2	3.30	6.5	9	46.1	86	22	2.99	4.8	9
1908	45.7	85	11	3.16	0.6	10	47.6	83	12	1.74	0.8	9
1909	40.2	80	9	3.69	7.6	11	41.8	75	17	3.82	2.5	10
1910	49.0	89	14	1.11	2.1	5	49.3	86	22	2.58	3.0	5
1911	39.8	77	-5	2.56	9.3	12	40.6	74	6	3.10	7.0	10
1912	39.5	78	-7	6.69	7.7	13	41.1	72	16	7.16	7.9	12
1913	47.2	83	-6	4.56	0.7	10	49.1	80	13	3.86	1.5	10
1914	37.8	80	-14	2.40	15.4	10	35.6	75	4	3.02	18.5	10
1915	36.6	64	-3	1.14	4.4	5	38.8	62	19	1.28	1.7	3
1916	35.9	78	-3	3.88	4.5	10	35.9	69	8	3.51	5.8	10
1917	41.1	82	-5	5.34	10.2	13	41.7	76	17	6.28	0.9	13
1918	45.6	84	9	3.61	0.1	9	44.8	80	17	3.48	1.4	9
1919	45.8	76	14	3.87	0.6	10	46.4	78	24	4.63	0.1	9
1920	43.2	85	-1	3.00	2.7	9	43.6	75	11	3.86	1.7	10
1921	53.6	91	14	2.38	T.	11	54.6	88	23	2.51	0.5	11
1922	44.2	80	11	4.70	2.2	13	45.0	76	19	4.48	0.2	12
1923	43.3	82	-6	4.23	5.8	11	44.0	80	13	5.60	4.5	12
1924	40.7	77	-11	4.98	12.2	10	41.7	76	22	5.34	1.7	10
1925	44.8	82	-3	2.25	0.4	9	46.6	79	9	2.28	T.	8
1926	38.0	80	-8	2.21	2.1	10	39.3	80	10	2.30	0.5	9
1927	45.4	84	10	1.72	0.1	9	45.6	82	18	1.92	T.	10
1928	41.7	83	7	2.97	7.0	10	42.2	82	14	2.81	0.6	11
1929	48.0	86	4	3.14	1.3	10	49.7	81	11	3.39	T.	11
1930	42.2	77	4	2.16	1.6	7	48.7	76	18	2.00	T.	7
1931	39.1	65	14	4.28	7.4	13	40.6	64	25	6.24	7.4	12
1932	38.2	75	-4	5.70	5.7	10	40.1	70	12	6.46	1.8	10
1933	40.1	79	0	4.40	3.2	13	41.8	80	16	3.15	1.2	13
1934	38.7	78	-10	4.35	11.7	14	40.1	75	6	5.26	13.4	14
1935	47.6	86	10	2.99	1.8	14	47.9	77	19	3.25	0.4	13
1936	47.0	83	-15	5.87	3.0	12	48.9	76	20	5.60	T.	12
1937	39.4	74	1	1.96	9.7	8	39.8	69	15	2.56	3.5	9
1938	46.9	88	6	2.74	3.8	14	46.9	82	8	2.60	3.2	13
Period	42.3	93	-15	3.54	5.0	10	43.4	88	4	3.73	2.7	10

Climatological Data for March 1938

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	Clear	Partly cloudy		Cloudy	Prevailing direction of wind
<i>Maryland</i>																				
Aberdeen	Harford	26	20	45.4	+3.2	78	22	13	4	35	2.01	-1.49	0.57	1.9	16	6	12	13	sw.	U. S. Army
Annapolis	Anne Arundel	45	73	47.7	+4.0	76	20	19	4	34	1.64	-2.15	0.45	4.0	15	9	7	14	sw.	U. S. Navy
Baltimore*	Prince Georges	14	68	49.2	+6.8	79	21	18	4	33	2.44	-1.27	0.64	4.8	15	9	8	15	sw.	U. S. Weather Bureau
Bellii	Montgomery	151	18	47.4	+3.7	83	22	10	11	45	2.14	-2.25	0.55	4.3	14	10	9	12	sw.	Bureau Plant Industry
Boysd.	Dorchester	375	19	46.2	+3.0	85	22	16	11	45	2.76	-0.36	1.21	2.5	14	13	6	12	sw.	Ralph F. Staley
Cambridge (near)	St. Marys	13	45	49.2	+4.1	82	22	22	4	37	3.05	-0.96	0.80	1.0	12	16	6	9	sw.	Matt Harding
Charlotte Hall	Prince Georges	167	18	47.1	+2.3	83	22	18	1	34	2.79	-0.96	0.76	3.2	15	12	6	13	sw.	Prof. B. F. Crowson
Cheltenham	Kent	230	38	47.6	+4.6	80	22	14	4	34	2.80	-0.80	0.55	5.4	15	16	3	12	sw.	U. S. Magnetic Obs'y.
Chestertown	Washington	630	41	44.3	+3.3	81	22	9	4	41	2.36	-0.62	0.74	3.2	14	10	10	11	se.	J. J. Coop
Clear Spring	do.	560	41	46.4	+5.8	83	22	16	11	39	2.98	-0.46	0.74	8.0	13	11	9	11	w.	D. Paul Oswald
Colemanii	Prince Georges	80	41	46.7	+3.2	80	22	13	4	34	2.62	-0.89	0.52	5.0	14	16	3	12	sw.	Mrs. Anna Bevan Cohill
College Park	Harford	160	52	48.2	+4.4	85	22	16	11	45	2.32	-1.18	0.49	3.5	13	12	7	12	sw.	Thos. H. White
Conowingo Dam	Somerset	40	3	44.3	.....	76	122	9	4	37	2.28	.....	0.64	5.3	13	10	9	12	sw.	Susquehanna Electric Co.
Crisfield	Allegany	5	19	50.4	+3.9	78	22	25	11	32	3.58	+0.24	1.15	T.	14	15	7	9	sw.	Arthur B. Cochrane
Cumberland	Harford	623	68	46.0	+5.7	88	22	13	1	47	2.58	-0.44	0.65	2.0	13	11	7	13	nw.	Paul Stein
Darlington	Baltimore	360	48	45.0	+3.8	80	22	8	4	42	3.41	-0.04	0.58	6.0	14	10	9	12	sw.	Fred. C. Jones
Dundalk	Talbot	12	4	47.0	.....	77	21	15	4	32	2.64	.....	1.17	3.4	14	6	12	13	se.	U. S. Airway Station
Easton	Cecil	35	48	47.4	+3.3	80	22	19	4	39	3.61	-0.05	1.00	3.0	14	15	6	10	sw.	Clement E. Bray
Elkton	Frederick	28	12	45.7	+3.8	81	22	9	4	34	2.06	-1.75	0.41	4.5	13	16	4	11	sw.	H. W. Bouchele
Emmitsburg	Harford	720	72	45.3	+4.7	80	22	14	4	39	2.71	-1.27	0.50	4.0	14	12	5	14	sw.	Mt. St. Mary's Seminary
Fallston II	Calvert	450	69	45.4	+5.3	76	22	9	4	34	2.23	-1.25	0.49	5.9	14	10	11	10	sw.	Miss Dora Curtiss
Ferry Landing II	Frederick	120	22	50.0	+4.6	84	22	17	1	41	2.38	-1.16	0.78	2.0	12	13	7	11	sw.	Thos. J. Bourne
Frederick	Garrett	325	69	46.9	+4.4	84	22	16	4	43	2.89	-0.59	0.58	3.0	13	12	8	11	w.	August T. Brust
Friendsville	Garrett	1,980	20	43.8	+6.8	77	22	8	1	40	4.61	+0.50	0.80	4.0	16	6	10	15	sw.	Job J. Friend
Frostburg	Allegany	1,950	37	44.1	+5.1	80	122	7	1	49	3.00	-0.70	0.80	7.0	15	11	7	13	w.	Thos. F. Lewis
Georgetown	Cecil	25	2	47.2	.....	79	22	12	4	37	2.15	.....	0.43	5.5	14	16	4	11	sw.	Capt. N. L. Riggin
Grantsville	Garrett	2,320	45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Floyd J. Miller
Great Falls II	Montgomery	200	50	48.2	+4.7	86	22	17	1	47	2.38	-0.83	0.60	2.5	14	13	5	13	sw.	John E. Bissett
Hancock (City)	Washington	540	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Marvin K. Murray
Hancock (Tonoloway)	do.	550	28	46.2	+4.4	85	22	12	11	42	2.62	+0.48	0.78	2.6	15	.....	.....	.....	.....	American Fruit Growers
Huntingtown	Washington	160	3	49.3	.....	81	22	20	1	35	2.26	.....	0.76	1.0	14	16	3	12	sw.	Elmer O. Bowen
Keedysville	Charles	420	35	46.6	+3.7	85	22	16	11	42	2.15	-0.88	0.36	3.5	13	10	10	11	s.	J. A. Miller
La Plata	Prince Georges	190	24	47.4	+4.1	88	22	16	1	38	2.94	-0.42	0.90	2.7	12	14	4	13	sw.	Walter M. Page
Laurel	Baltimore	300	44	47.4	+4.4	82	22	10	14	36	1.96	-1.71	0.78	2.7	12	11	8	12	sw.	Evan G. Chaney
Lutherville	Baltimore	340	12	45.8	+3.8	81	22	10	14	36	2.35	-1.60	0.49	5.0	14	12	8	11	sw.	Charonice J. Thomson, Jr.
Maryland Line	do.	840	14	44.6	+4.4	82	22	7	4	34	2.49	-0.49	0.85	4.0	11	12	8	11	sw.	Henry L. Higman
Millington	Kent	27	41	47.8	+4.0	81	22	12	11	38	2.35	-1.35	0.65	5.5	15	16	5	10	sw.	U. S. Airway Station
Mt. Savage Summit II	Garrett	2,852	6	40.6	.....	76	22	6	1	48	3.50	-0.04	0.85	7.3	17	8	8	15	nw.	R. E. Weber
Oakland	do.	2,420	41	43.2	+6.6	79	22	11	1	48	3.96	-0.04	0.85	5.2	20	6	10	15	w.	Henry Wilcox
Oxford	Talbot	10	2	49.0	.....	78	22	22	4	28	2.84	.....	0.87	2.2	14	15	7	9	sw.	C. W. Hendrix
Parkton	Baltimore	780	8	44.7	.....	82	22	8	4	33	2.13	.....	0.72	4.0	11	.....	.....	.....	.....	J. H. Tullis
Perryville	Cecil	40	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	American Fruit Growers
Picardy	Allegany	1,030	12	46.7	+5.2	84	22	17	1	39	2.48	-0.70	0.54	3.5	14	12	8	11	w.	Walter P. Quintin, Jr.
Pleasant Hill II	Baltimore	660	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	James R. Stewart
Princess Anne	Somerset	17	63	48.4	+3.0	77	22	21	1	34	3.78	-0.06	0.95	T.	12	9	15	7	sw.	Albert White
Ridgely	Caroline	67	48	48.2	+4.3	79	22	15	11	35	2.18	-1.31	0.52	5.5	15	14	4	13	sw.	Charles Judefind
Rock Hall	Kent	20	25	47.2	+3.2	81	22	14	11	38	2.82	-0.80	1.05	9.0	14	16	2	13	s.	Brady C. Bounds
Salisbury	Wicomico	31	33	50.4	+5.0	81	22	20	1	37	4.00	+0.12	1.00	T.	12	14	9	8	sw.	C. E. MacMurray
Sines (Deep Creek) II	Garrett	2,030	14	42.0	+3.8	79	22	12	1	40	3.89	-0.51	0.74	4.0	20	6	10	15	sw.	Richard Leake
Snow Hill	Worcester	20	23	50.0	+5.1	80	31	20	1	40	3.46	+0.12	1.20	T.	11	11	11	9	nw.	Chesapeake Biological L'b.
Solomons	Calvert	20	47	49.8	+5.1	75	22	21	1	32	3.48	+0.16	0.96	T.	14	16	4	11	sw.	Dr. V. F. Cullen
State Sanatorium	Frederick	1,460	30	44.0	+3.7	80	22	12	4	34	3.32	-0.18	0.65	5.5	14	12	9	14	sw.	T. R. Price
Stevensville	Queen Annes	12	12	48.0	+4.0	77	22	21	11	32	2.93	-0.16	1.10	5.2	14	10	9	12	sw.	Guy L. Seaman
Takoma	Montgomery	320	40	49.3	+5.9	86	22	19	4	40	2.19	-1.34	0.48	3.0	13	12	6	13	sw.	S. Elmer Parks
Towson	Baltimore	475	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Norris Bruce
Western Port	Allegany	1,000	45	47.8	+5.8	87	22	18	1	52	2.75	-0.16	0.65	2.5	15	.....	.....	.....	.....	Harry J. Mathias
Westminster	Carroll	770	29	45.8	+4.2	83	22	9	4	38	3.09	-0.41	0.70	5.5	16	12	8	11	sw.	Woodstock College
Woodstock	Baltimore	415	69	46.0	+4.5	84	22	12	11	48	1.93	-1.39	0.58	4.0	13	11	8	12	sw.	.....
<i>Dist. of Columbia</i>																				
Washington**	.....	72	68	49.8	+7.2	85	22	20	4	35	2.23	-1.52	0.56	2.5	15	9	8	14	nw.	U. S. Weather Bureau
<i>Delaware</i>																				
Bridgeville	Sussex	45	48	47.8	+3.7	82	22	19	11	86	2.65	-1.07	0.73	1.0	12	15	8	8	sw.	William M. Ray
Delaware Breakwater	do.	40	3	46.0	.....	72	23	20	1	27	2.05	.....	0.54	1.2	13	13	8	10	sw.	U. S. Airway Station
Delaware City	New Castle	10	52	46.1	+4.5	80	22	13	4	33	1.39	-1.58	0.34	4.2	14	16	5	10	w.	James E. Maden
Dover	Kent	34	51	47.8	+4.8	81	22	15	4	33	2.38	-1.54	0.53	5.5	14	14	9	8	sw.	Arthur G. Livingston
Millford	Sussex	20	56	48.6	+3.8	82	122	18	11	35	3.49	-0.74	0.55	2.0	12	12	12			

Daily Precipitation for March 1938

Table with columns for Stations, Drainage basin, Day of month (1-31), and Total. Rows list various Maryland and Delaware locations with their respective precipitation data 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.
***Regular Weather Bureau station; precipitation is for the 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.
§Northwest of Frostburg. §§Prettyboy Dam. §§§Municipal Building. §§§§Porter Reservoir. *Precipitation included in following measurement.

Daily Temperatures for March 1938

Table with columns for Stations, Day of month (1-31), and Mean. Rows list Delaware locations (Bridgeville, Delaware Breakwater, Delaware City, Dover, Milford, Millsboro, Odessa, Wilmington) with their maximum and minimum temperatures for each day.

Daily Temperatures for March 1938-Continued

Table with columns for Stations, 1-31, and Mean. Rows list various Maryland locations such as Aberdeen, Annapolis, Baltimore, etc., with their respective maximum and minimum temperatures for each day of the month.

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 for 24-hour period ending late in afternoon, near sunset. (WBO, Richmond, Va., 6-16-38-1000)