

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

In Cooperation with Maryland State Weather Service

# CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION  
**J. R. WEEKS**  
 PRICE: 5 CENTS A COPY; 50 CENTS A YEAR  
 VOL. XL BALTIMORE, MD., MARCH, 1935 No. 3

**GENERAL SUMMARY**

This was the first warm March since 1929, being 5° warmer than normal and 9° warmer than March, 1934. Temperatures were mild or warm for the season, except moderately cold on 8-9th, 13-14th, 18th, and 31st.

Monthly precipitation was below normal for the first time in March since 1930, and averaged nine-tenths of normal. Totals were between 3 and 4 inches over northern and central Eastern Shore, over northern and western portions of southern Maryland, and over Carroll and northern Frederick Counties; elsewhere they were 2 to 3 inches, except 3 to 5 inches in the Allegheny Mountain region.

Monthly snowfall averaged one-third of normal. Totals were a trace over southern and central Eastern Shore; 0.5 to 1 inch over southern Maryland and northern Eastern Shore; 1 to 3 inches over north-central Maryland, except 4 to 5 inches in Blue Ridge Mountain region; and 1.5 to 3 inches in western Maryland, except 4 to 6.5 inches in Allegheny Mountain region.

On 8th light snow fell in Allegheny and Blue Ridge Mountain regions and flurries in other divisions; on 12th light snow fell in western Maryland; during night of 12-13th light snow fell in all divisions, except flurries over central and southern Eastern Shore; on 14th light snow fell in western and north-central Maryland and flurries in southern Maryland and on the Eastern Shore; on 17th and 28th there were flurries in Allegheny Mountain region.

Monthly sunshine was 5 per cent below normal. There was much cloudiness during the first half of the month, with a deficiency of sunshine of 15 per cent. Sunshine during the second half of the month was 5 per cent above normal.

Wheat, rye, barley, and grasses greened nicely and made good growth. Grains were good to excellent, and stooled well; grasses were mostly good. Field operations were greatly delayed by wet fields. Some plowing was done. There was some planting during the month of early potatoes, early peas, truck, and gardens and sowing of oats and clover over the southern and central Eastern Shore and during the second half of the month over the remainder of the section, except the Allegheny Mountain region. Early peas came up over the southern and central Eastern Shore during the second half of the month. Tomato and tobacco seed were sown in beds. Other activities were cutting wood, stripping tobacco, pruning and spraying orchards, hauling and spreading manure, gathering maple sap, and making maple sugar and syrup. Peach and plum trees were blooming in southern counties during the third decade. — *J. B., jr.*

**TEMPERATURE**

The monthly mean for the section, 47.6°, is 4.6° above normal. The highest monthly mean was 50.9° at Cheltenham; the lowest, 41.4° at Sines. The highest temperature, 86°, occurred at Hancock (Tonoloway) on the 16th; the lowest, 10°, at Sines on the 9th. The greatest local monthly range was 75° at Hancock (Tonoloway); the least, 53° at Dundalk, Solomons, and Bridgeville. The greatest daily range was 53° at Hancock (Tonoloway) on the 16th.

**PRECIPITATION**

The monthly average for the section, 3.02 inches, is 0.42 inch below normal. The greatest monthly amount was 4.51 inches at Friendville; the least, 1.95 inches at Picardy. The great-

est 24-hour amount was 1.88 inches at Millington on the 12-13th. The monthly average snowfall for the section, 1.7 inches, is 3.0 inches below normal. The greatest monthly snowfall was 6.3 inches at Oakland. The average number of days with 0.01 inch or more of precipitation, 14, is 4 above normal.

**MISCELLANEOUS PHENOMENA (WITH DATES)**

*Dust Clouds.* — 6, 20, 21, 22, 30. *Fogs, Dense.* — Aberdeen, 6.  
*Fogs, Light.* — 2, 3, 5 to 8, 10 to 16, 19 to 21, 23, 25, 26, 28, 31.  
*Frost, killing, last general of month.* — 27. *Rainbow.* — Baltimore and Fallston, 28.  
*Frogs, first croaking of.* — College Park, 4; Princess Anne, 5. *Thunderstorms.* — 3, 6, 8, 21, 23, 28.  
*Geese, wild, flying north.* — Clear Spring, 3, 24. *First robin.* — Clear Spring, 4; Princess Anne, 10. *First bluebird.* — Clear Spring, 6. *First wren.* — Clear Spring, 16. *Plum trees in bloom.* — Princess Anne, 22.  
*Hail, light.* — Baltimore, 23; La Plata, 6; Princess Anne, 28. *Sleet, light.* — 8, night 12-13.  
*Halos: Lunar.* — 13, 15, 16, 17, 18, 21. *Solar.* — 1, 10, 13, 18, 19, 20, 22, 23, 24, 30.  
*Winds, high.* — Westerly, 10, 11, 12, 13, 14, 16, 17, 23, 28, 29; southerly, 1, 28; northeasterly, night 30-31

**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 velocity	Maximum velocity	Direction	Date	8 a. m.	
Aberdeen, Md. ....	30.10	30.72	9	29.48	12	7.0	35	nw.	17	81	67
Annapolis, Md. ....	30.08	30.72	9	29.48	12	8.5	25	nw.	17	71	58
Baltimore, Md. ....	30.08	30.73	9	29.48	12	11.0	32	nw.	17	69	60
Elkins, W. Va. ....	30.09	30.60	9	29.61	12	7.6	32	sw.	17	76	59
Harrisburg, Pa. ....	30.06	30.74	9	29.47	12	7.4	32	sw.	17	72	56
Norfolk, Va. ....	30.11	30.71	9	29.40	12	11.1	32	n.	28	78	56
Philadelphia, Pa. ....	30.08	30.75	9	29.45	12	13.3	37	sw.	17	66	53
Pittsburgh, Pa. ....	30.05	30.63	9	29.65	11	11.1	38	sw.	17	72	65
Washington, D. C. .	30.08	30.73	9	29.48	12	7.7	25	nw.	17	70	53

**COMPARATIVE DATA FOR MARYLAND AND DELAWARE FOR MARCH**

Year	Temperature				Precipitation				Number of days				
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest	Least	Average snowfall	With 0.1 in. or more precipita. n.	Clear	Partly c'l'y	Cloudy
1895....	39.9	-3.1	74	-7	3.10	-0.34	6.20	1.10	2.8	10	12	9	10
1896....	36.6	-6.4	74	-13	4.38	+0.94	6.80	2.16	12.4	10	14	8	9
1897....	44.4	+1.4	82	12	2.93	-0.51	5.05	2.04	0.7	10	12	10	9
1898....	47.6	+4.6	84	7	3.66	+0.22	5.34	1.17	1.9	11	10	9	12
1899....	41.0	-2.0	77	-1	4.83	+1.39	7.42	2.44	3.7	11	11	7	13
1900....	37.4	-5.6	74	-8	3.27	-0.17	5.05	1.31	13.0	9	12	8	11
1901....	42.6	+0.4	88	-9	3.51	+0.07	6.99	1.13	1.8	9	10	10	11
1902....	44.8	+1.8	80	3	3.91	+0.47	5.92	1.82	1.0	10	13	10	8
1903....	49.3	+6.3	85	15	5.22	+1.78	9.36	3.00	0.2	10	11	7	13
1904....	41.2	-1.8	87	-5	3.04	-0.40	4.24	1.13	1.9	10	11	10	10
1905....	45.3	+2.3	88	-15	3.16	-0.28	6.86	0.99	2.0	10	13	8	10
1906....	36.9	-6.1	68	-8	4.97	+1.53	7.18	2.22	10.4	7	9	8	14
1907....	46.1	+3.1	93	2	3.26	-0.18	7.50	1.88	6.3	9	14	9	8
1908....	45.9	+2.9	85	11	3.00	-0.44	7.34	1.36	0.6	10	12	9	10
1909....	40.4	-2.6	80	9	3.70	+0.25	5.82	1.75	7.0	11	13	9	9
1910....	50.1	+7.1	89	14	1.25	-2.19	4.02	0.08	2.2	5	17	9	5
1911....	39.9	-3.1	77	-5	2.61	-0.83	4.42	1.28	9.0	12	13	11	7
1912....	39.7	-3.3	78	-7	6.75	+3.31	9.08	4.89	6.7	13	12	9	19
1913....	47.4	+4.4	83	-6	4.47	+1.03	8.75	2.19	0.6	10	11	11	9
1914....	37.9	-5.1	80	-14	2.40	-0.95	4.55	1.15	15.8	10	12	9	10
1915....	36.9	-6.1	64	-3	1.16	-2.28	2.16	0.43	4.1	4	18	8	5
1916....	35.9	-7.1	78	-3	3.82	+0.38	6.84	1.87	4.6	10	12	8	11
1917....	41.2	-1.8	82	-5	5.46	+2.02	8.85	2.87	9.0	13	14	7	10
1918....	45.5	+2.5	84	8	3.59	+0.15	7.06	1.57	0.1	9	17	7	7
1919....	45.8	+2.8	78	14	3.99	+0.55	5.35	1.79	0.5	10	17	7	7
1920....	43.3	+0.3	85	-1	3.14	-0.80	4.61	1.91	2.6	9	18	5	8
1921....	53.7	+10.7	91	14	2.39	-1.05	3.71	1.46	0.1	11	16	10	5
1922....	44.3	+1.3	80	11	4.67	+1.23	9.22	3.38	1.9	13	11	6	14
1923....	43.4	+0.4	82	-6	4.39	+0.95	7.28	1.69	5.7	11	16	7	8
1924....	40.8	-2.2	77	-11	5.02	+1.58	6.66	3.13	10.9	10	14	8	9
1925....	45.0	+2.0	82	-3	2.25	-1.19	3.98	1.13	0.3	9	15	6	10
1926....	38.1	-4.9	80	-8	2.22	-1.22	4.51	1.11	1.9	10	13	11	7
1927....	45.4	+2.4	84	10	1.75	-1.09	3.19	1.21	0.1	9	10	10	11
1928....	41.8	-1.2	83	7	2.95	-0.49	4.99	1.52	6.3	10	13	10	8
1929....	48.2	+5.2	86	4	3.17	-0.27	5.49	1.90	1.2	10	14	6	11
1930....	42.4	-0.6	77	4	2.14	-1.30	4.45	0.65	1.5	7	16	8	7
1931....	39.3	-3.7	65	-14	4.38	+0.94	5.97	3.22	7.4	13	7	10	14
1932....	38.5	-4.5	75	-4	5.78	+2.34	7.76	3.61	5.3	10	13	9	9
1933....	40.3	-2.7	80	0	4.28	+0.84	7.83	1.48	3.0	13	9	9	13
1934....	38.9	-4.1	78	-10	4.45	+1.01	7.17	2.06	11.9	14	10	7	14
1935....	47.6	-4.6	86	10	3.02	-0.42	4.51	1.95	1.7	14	9	8	14
Period.	43.0	.....	93	-15	3.44	.....	9.36	0.08	4.7	10	13	9	9

Climatological Data, March, 1935

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	80	17	45.3	+2.4	76	16	19	1	41	2.85	+0.01	1.12	1.0	14	7	8	16	de.	U. S. Army.
Annapolis	Anne Arundel	45	70	48.8	+5.3	80	16	26	9	36	3.46	-0.38	1.61	1.6	14	8	8	16	se.	U. S. Navy.
Baltimore		115	65	49.4	+7.1	81	16	24	9	37	2.82	-0.89	1.53	1.3	15	9	6	16	sw.	Bureau Weather Bureau.
Bell	Prince Georges	151	15	49.2	+4.7	79	16	17	9	39	3.29	+0.25	1.62	1.0	15	9	9	13	sw.	Bureau Plant Industry.
Boyd's	Montgomery	375	16	46.8	+2.4	78	16	17	9	40	2.50	-0.86	1.14	1.8	14	9	9	13	s.	Ralph F. Staley.
Cambridge (near)	Dorchester	25	42	49.7	+4.5	78	21	22	1	35	3.29	-0.58	1.05	T.	10	11	9	12	s.	Matt Harding.
Cecilton	Cecil	85	17																	James Reese Short.
Cheltenham	Prince Georges	229	35	50.9	+5.8	80	21	20	1	34	3.30	-0.32	1.60	0.5	16	7	11	13	sw.	U. S. Magnetic Obs'y.
Chevsville	Washington	530	38	45.2	+3.8	78	16	11	9	41	2.97	+0.04	0.97	4.7	13	8	10	13	se.	D. Paul Oswald.
Clear Spring	do.	600	38	47.2	+6.6	82	16	18	9	42	3.21	-0.13	1.05	2.2	14	11	6	14	w.	Mrs. Anna Bevan Cobill.
Coleman	Kent	90	38	47.2	+3.3	77	16	20	1	37	3.28	-0.15	1.53	1.0	12	8	8	15	sw.	Walter B. Harris.
College Park	Prince Georges	87	48	49.1	+5.3	79	21	20	9	39	3.41	-0.05	1.48	1.3	15	9	9	13	sw.	Prof. Thos. H. White.
Cristfield	Somerset	5	16	50.6	+8.2	78	21	24	9	36	2.56	-1.90	0.91	T.	10	8	11	12	s.	A. B. Cochran.
Cumberland	Allegany	623	63	46.5	+6.3	85	16	17	9	45	1.97	-0.97	0.43	1.5	14	12	5	14	sw.	Harvey H. Weiss.
Darlington	Harford	300	45	45.2	+3.7	76	16	18	1	37	2.49	-0.80	0.95	1.7	13	7	9	15	sw.	Fred. C. Jones.
Dundalk	Baltimore	6	1	47.0		76	16	23	9	40	2.84		1.55	1.6	15	9	6	16	sw.	U. S. Airway Station.
Easton	Talbot	35	46	48.6	+4.3	77	16	22	9	35	3.51	-0.07	1.57	T.	11	11	8	12	s.	Clement E. Bray.
Elkton	Cecil	28	9	46.0		77	16	15	1	41	3.22		1.60	2.2	13	10	6	15	sw.	Mt. St. Mary's College.
Emmitsburg	Frederick	720	67	46.4	+5.9	75	21	19	9	29	3.10	-0.84	1.10	4.5	15	9	9	13	s.	Miss Dora Curtiss.
Fallston	Harford	450	66	46.8	+6.7	77	16	19	9	38	2.44	-1.39	1.13	1.6	15	7	10	14	sw.	Thos. J. Bourne.
Ferry Landing	Calvert	110	19	49.5	+3.3	79	21	21	9	33	2.78	-0.56	1.27	1.0	13	10	7	14	sw.	August T. Brust.
Frederick	Frederick	325	61	48.6	+6.2	78	16	19	9	38	2.98	-0.26	1.07	4.0	15	9	9	13	sw.	Joab J. Friend
Friendsville	Garrett	1,501	17	44.1	+4.8	76	16	12	9	48	4.51	+0.58	1.10	5.2	18	6	9	16	sw.	F. T. Lewis.
Frostburg	Allegany	1,929	34	44.6	+5.2	77	16	13	9	41	2.26	-1.34	0.40	4.0	14	12	5	14	w.	Eloyd J. Miller.
Grantsville	Garrett	2,351	42																	Chas. E. Sullivan.
Great Falls	Montgomery	200	46	49.0	+5.3	81	16	16	9	42	3.06	-0.09	1.18	2.0	14	9	9	13	sw.	American Fruit Growers.
Hancock (Tonoloway)	Washington	455	25	46.2	+3.9	86	16	11	9	53	2.03	-0.97	0.90	1.5	13	11	6	14	sw.	Marvin K. Murray.
Hancock (City)	do.	421	11																	J. A. Miller.
Keedysville	do.	400	31	47.8	+4.5	81	16	15	9	41	2.48	-0.32	1.05	4.0	13	11	7	13	sw.	Walter M. Page.
La Plata	Charles	190	24	50.4	+3.7	82	21	21	9	35	4.08	+1.34	1.56	0.6	16	7	11	13	sw.	Evan G. Chaney.
Laurel	Prince Georges	320	41	48.0	+4.9	78	21	19	9	36	3.47	-0.97	1.66	2.0	15	10	7	14	sw.	Clarence J. Thomson, Jr.
Lutherville	Baltimore	340	9	46.5		80	16	14	1	51	2.84		1.30	1.5	14	10	7	14	sw.	Chester L. Fulton.
Maryland Line	do.	840	11	45.4	+6.2	77	16	16	9	40	2.98	-0.80	1.03	2.0	14	10	7	14	sw.	Henry L. Higman.
Mechanicsville	St. Marys	105	9																	R. E. Weber.
Millington	Kent	27	38	48.3	+4.3	77	16	18	1	34	3.15	-0.61	1.88	0.5	13	8	8	15	s.	C. W. Hendrix.
Oakland	Garrett	2,461	36	43.7	+6.8	75	16	13	9	47	4.01	+0.23	1.10	6.3	18	6	9	16	w.	American Fruit Growers.
Parkton	Baltimore	780	5	45.4		77	16	17	9	39	2.68		1.04	2.0	14					J. E. Henry.
Picardy	Allegany	900	9	47.1		83	16	14	9	42	1.95		0.46	1.5	11	12	5	14	w.	James R. Stewart.
Pleasant Hill	Baltimore	600	11																	Albert White.
Princess Anne	Somerset	17	60	48.7	+3.1	79	21	20	1	36	3.22	-0.75	0.76	T.	12	8	11	12	sw.	Charles Jueffind.
Ridgely	Caroline	57	45	48.6	+4.6	77	16	21	1	36	3.29	-0.24	1.37	T.	10	8	10	13	sw.	Homestead Dairy Farms.
Rock Hall	Kent	25	21	48.4	+3.7	76	16	20	1	35	2.88	-0.37	1.60	0.5	12	8	8	15	s.	C. E. MacMurray.
Salisbury	Wicomico	23	30	50.4	+4.8	79	21	19	1	36	2.98	-0.80	0.90	T.	11	11	8	12	sw.	Richard Leake.
Sines (Deep Creek)	Garrett	2,040	8	41.4		75	16	10	9	50	4.11		1.46	5.2	17	6	9	16	sw.	Chesapeake Biological L'b.
Snow Hill	Worcester	15	5	50.1		77	21	20	1	39	2.80		0.80	T.	11	8	11	12	se.	Dr. V. F. Cullen.
Solomons	Calvert	20	44	50.5	+5.7	79	21	26	1	33	3.27	-0.90	0.89	0.5	13	10	8	13	sw.	T. R. Price.
State Sanatorium	Frederick	1,460	27	45.4	+4.7	75	16	14	9	29	3.54	+0.29	1.10	4.5	14	8	10	13	sw.	Milton L. Seaman.
Stevensville	Queen Annes	32	9	48.8		76	16	22	9	38	3.07		1.60	T.	11	8	9	14	sw.	Charles E. Prince.
Takoma	Montgomery	320	37	49.6	+6.3	82	16	20	9	36	3.36	-0.11	1.41	2.0	15	10	8	13	sw.	Norris Bruce.
Towson	Baltimore	475	24																	Harry J. Mathias.
Western Port	Allegany	1,000	42	48.8	+6.7	85	16	15	9	47	2.99	-0.53	0.90	3.0	15					Woodstock College.
Westminster	Carroll	770	26	46.2	+4.3	78	16	17	9	36	3.29	-0.14	1.47	3.0	15	10	8	13	sw.	
Woodstock	Baltimore	415	66	46.7	+5.0	78	16	16	1	43	2.40	-1.17	1.13	1.5	15	10	7	14	sw.	
<i>Dist. of Columbia</i>																				
Washington		112	65	50.2	+7.6	80	21	25	9	34	3.39	-0.36	1.42	0.5	16	8	11	12	s.	U. S. Weather Bureau.
<i>Delaware</i>																				
Bridgeville	Sussex	45	45	47.4	+3.1	74	16	21	1	37	3.09	-0.70	1.33	T.	11	11	8	12	sw.	William M. Ray.
Delaware City	New Castle	12	49	46.3	+4.7	74	16	20	1	39	2.98	-0.10	1.30	1.0	13	11	5	15	s.	James E. Maden.
Dover	Kent	34	46	48.6	+5.6	77	16	22	1	39	4.00	+0.05	1.20	0.5	15	10	7	14	sw.	Arthur G. Livingston.
Milford	Sussex	20	53	49.4	+4.4	76	6	22	1	39	3.25	-0.70	0.91	T.	14	9	10	12	sw.	Chas. J. Holzmueller.
Millsboro	do.	20	43	49.9	+5.6	77	21	20	1	42	3.30	-0.52	1.30	T.	11	11	8	12	sw.	Wm. T. Moore.
Wilmington	New Castle	88	42																	Street Department.
Wilmington	do.	260	24	45.8	+3.2	74	16	19	9	44	2.73	-0.65	1.26	1.0	14	12	4	15	sw.	Water Department.
<i>Means and extremes:</i>																				
For Maryland and District of Columbia				47.6	+4.7	86	16	10	9	53	2.99	-0.42	1.88	1.8	14	9	8	14	sw.	
For Delaware				47.9	+4.2	77	16	19	9	44	3.25	-0.41	1.41	0.4	13	11	7	13	sw.	
For entire section				47.6	+4.6	86	16	10	9	53	3.02	-0.42	1.88	1.7	14	9	8	14	sw.	

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; of Sines, Oakland. †Also on other dates. \*Custom House, Gay and Water Sts. \*\*Weather Bureau Building, 24th and M Sts.   
 ††Prettyboy Dam. †††Municipal Building. ††††Porter Reservoir.

Daily Precipitation for March, 1935

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

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 §§Municipal Building. §§§§Porter Reservoir. \*Precipitation included in following measurement.

Daily Temperatures for March, 1935

Table with columns for Stations, 1-31, and Mean. Rows list various Maryland and Delaware locations such as Aberdeen, Annapolis, Baltimore, etc., with their corresponding temperature readings 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, Dundalk, Sines, and Washington are from midnight to midnight; other stations, except Cumberland, are for 24-hour periods ending late in afternoon, near sunset.

(W. B. Richmond, Va.--5-15-930)