

# CLIMATOLOGICAL DATA

## 15 MARYLAND AND DELAWARE SECTION

J. R. WEEKS

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VOL. XLIV BALTIMORE, MD., DECEMBER 1940 No. 12

### GENERAL SUMMARY

This was the mildest December since 1931. The weather was mild daily, except moderately cold on the 9th and 14th, cold during the 2d-6th, and warm with a mean daily temperature of 12° above normal during the 20th-31st.

Monthly precipitation averaged four-fifths of normal. Totals were between 2 and 3 inches, except slightly below 2 inches in southern Allegany, Dorchester, southern Talbot, southern Caroline, and western Sussex Counties and slightly above 3 inches in northern Frederick and southwestern Baltimore Counties and in the Coleman and Darlington districts.

Monthly snowfall was light; it averaged one-fourth of normal. Totals were a trace over the southern third of the section, 0.5 to 1 inch over the central third, and 1 inch to 2 inches over the northern third, except 0.5 inch over Allegany and western Washington Counties and 2 to 5 inches over Garrett and northern New Castle Counties.

Snow flurries occurred over the northern and central portions of the section on the 3d, except light snow fell over western Garrett County, and occurred over western Maryland on the 4th and the Allegheny Mountain region on the 17th and 29th.

Light snow fell over the section on the 5th, except snow flurries occurred over western Garrett County and the southern third of the section. Light snow fell over the Allegheny Mountain region on the 30th.

The 12-16th and 26-29th were periods of prolonged cloudiness; the 22d-24th was a period of prolonged clear sky. Monthly sunshine was slightly below normal.

Barley, wheat, and rye were good color, were good to excellent, and made good growth. Grasses and pastures were fair to good. Activities were plowing, husking corn, butchering, cutting wood, feeding livestock, pruning, stripping tobacco, gathering holly, and making holly wreaths. — J. B., jr.

### TEMPERATURE

The monthly mean for the section, 40.3°, is 4.9° above normal. The highest monthly mean was 44.3° at Snow Hill; the lowest, 32.6°, at Mt. Savage Summit. The highest temperature, 70°, occurred at Snow Hill on the 28th; the lowest, 13° below zero, at Oakland on the 4th. The greatest local monthly range was 77° at Oakland; the least, 38°, at Ocean City. The greatest daily range was 51° at Oakland on the 24th.

### PRECIPITATION

The monthly average for the section, 2.49 inches, is 0.67 inch below normal. The greatest monthly amount was 3.67 inches at State Sanatorium; the least, 1.49 inches, at Bridgeville. The greatest 24-hour rainfall was 1.42 inches at Newark on the 28th. The monthly average snowfall for the section, 1.1 inches, is 3.5 inches below normal. The greatest 24-hour snowfall was 5.0 inches at Wilmington on the 5th. The average number of days with 0.01 inch or more of precipitation, 10, is 1 above normal.

### MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs.—1, 5, 7, 12 to 22, 25 to 31. Glaze, light.—14. Halos, lunar.—8, 10, 11, 12, 15, 18.  
Halos, solar.—10, 19. Rainbows.—Ferry Landing, 30. Steel, light.—5, 14.  
Thunderstorms.—29. Winds, high.—1, 3, 4, 6, 7, 17, 30.

### DEATH

The death of a faithful observer of the U. S. Weather Bureau and the Maryland State Weather Service is announced with regret. Mr. T. R. Price at Stevensville died on the 13th of this month. He served faithfully from December 12, 1926 until November 30, 1940, except for interruptions due to illness.

### 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	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Aberdeen, Md.	30.59	19	29.31	29	8.1	32	nw.	17	81	77	77	89
Annapolis, Md.	30.61	19	29.33	29	7.0	31	nw.	17	78	77	77	70.2
Baltimore, Md.	30.63	19	29.32	29	9.6	31	nw.	17	79	61	75	68.5
Elkins, W. Va.	30.58	18	29.26	29	6.6	26	w.	17	82	66	74	75.5
Harrisburg, Pa.	30.62	19	29.29	29	6.9	28	nw.	17	81	62	71	85.3
Norfolk, Va.	30.56	19	29.42	29	9.9	25	n.	17	85	67	79	66
Philadelphia, Pa.	30.63	19	29.33	29	12.3	35	nw.	17	82	64	76	76.4
Pittsburgh, Pa.	30.60	18	29.24	29	11.0	35	w.	1	82	68	78	76.2
Washington, D. C.	30.63	19	29.32	29	6.3	34	nw.	17	73	58	63	68.2

### COMPARATIVE DATA FOR DECEMBER

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	37.0	70	-7	2.58	2.7	7	40.0	69	12	2.39	0.6	7
1896	34.1	70	-3	0.78	4.0	4	34.2	67	7	1.28	6.0	5
1897	36.8	74	-4	3.54	2.5	10	37.9	71	12	3.33	1.5	11
1898	34.0	70	-20	3.61	6.0	8	36.6	68	6	3.48	1.6	8
1899	35.2	69	-6	1.86	2.2	7	37.4	68	1	1.87	1.0	6
1900	34.4	68	-2	2.39	1.8	5	34.7	65	-11	2.87	5.0	5
1901	32.5	74	-15	6.80	1.4	10	34.9	69	6	6.00	T	10
1902	33.1	70	-4	5.99	7.3	12	35.4	65	9	6.07	3.1	11
1903	30.1	60	-9	2.25	5.0	7	31.4	56	9	4.15	4.5	8
1904	29.6	64	-11	3.34	15.4	9	30.0	66	-1	4.65	17.1	12
1905	36.4	64	2	4.31	4.2	8	38.3	64	15	4.70	2.2	8
1906	35.5	68	0	4.12	1.3	11	37.5	72	10	4.07	T	10
1907	36.9	76	-7	4.14	4.8	9	41.1	67	16	4.54	1.7	8
1908	35.9	71	1	3.18	7.7	9	37.5	71	6	4.32	8.2	10
1909	30.5	69	-5	3.64	10.3	7	32.1	62	3	3.86	15.3	6
1910	28.2	65	-15	2.33	11.9	7	30.4	64	-1	3.02	8.1	7
1911	39.8	76	7	3.66	1.1	10	41.5	76	17	3.65	0.1	8
1912	38.2	75	-10	3.88	7.2	9	40.5	74	15	4.36	6.8	9
1913	38.8	72	-1	2.44	1.0	6	40.4	67	18	2.38	T	6
1914	31.6	68	-30	4.38	5.7	14	34.4	66	7	6.20	1.3	14
1915	32.8	73	-6	3.16	5.2	8	34.9	67	1	3.16	3.5	7
1916	33.4	76	-3	3.63	9.6	11	34.0	70	-3	4.48	9.7	10
1917	26.4	59	-32	1.62	9.4	8	28.5	56	-7	2.14	4.7	8
1918	40.3	71	7	4.31	0.3	10	41.2	70	13	3.75	0.1	9
1919	29.5	70	-17	2.91	6.0	11	31.9	70	0	3.19	5.9	11
1920	37.2	71	-5	3.42	1.7	9	39.6	69	16	3.52	0.2	7
1921	36.1	70	0	2.55	8.4	10	36.5	66	9	2.24	6.0	9
1922	36.2	71	3	3.79	3.1	10	37.1	66	13	4.18	1.8	10
1923	42.7	72	2	3.56	1.8	11	44.1	69	16	3.25	1.5	10
1924	35.0	76	-4	2.32	0.3	8	36.9	75	8	2.84	0.1	9
1925	35.2	64	-7	1.84	0.9	9	36.8	63	10	2.30	T	7
1926	32.0	62	-16	3.17	2.2	12	32.8	60	5	3.49	1.8	12
1927	37.0	73	0	3.71	2.4	12	39.1	71	11	4.39	2.3	11
1928	36.8	63	0	1.53	2.5	7	37.4	63	11	2.45	2.5	7
1929	36.8	75	-6	2.41	4.2	9	38.1	70	11	2.71	1.0	13
1930	33.1	60	-17	2.68	5.7	9	35.5	62	8	1.98	3.2	10
1931	42.6	72	9	2.47	0.7	7	44.4	69	18	2.32	T	7
1932	37.5	73	-6	3.23	12.1	13	39.4	70	4	3.88	13.0	15
1933	36.3	73	-10	2.92	5.9	10	37.4	71	-1	3.66	3.8	11
1934	35.0	71	-16	2.77	1.6	8	36.3	70	11	2.62	0.1	7
1935	29.9	66	-22	2.49	14.1	13	31.1	63	0	2.61	17.1	11
1936	37.4	70	-10	5.55	3.3	13	40.0	68	10	5.16	0.1	13
1937	34.5	74	-12	1.29	2.0	7	36.2	71	9	1.18	T	7
1938	36.0	68	-1	2.84	2.8	10	38.3	65	12	2.70	0.8	8
1939	37.7	70	4	2.00	6.2	9	38.5	68	12	1.61	4.4	8
1940	40.2	70	-13	2.51	0.9	10	40.9	65	8	2.41	2.2	11
Period	35.2	76	-32	3.12	4.7	9	36.8	76	-7	3.39	3.7	9

Climatological Data for December 1940

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	22	39.4	+4.4	59	29	15	4	31	2.98	-0.13	1.21	1.4	12	4	13	14	ne.	U. S. Army
Annapolis	Anne Arundel	45	75	42.4	+5.1	64	10	19	4	26	2.26	-1.28	1.04	1.0	12	4	15	12	nw.	U. S. Navy
Baltimore	Prince Georges	14	70	43.0	+5.8	62	10	18	4	26	2.68	-0.69	0.80	0.2	11	6	12	13	sw.	U. S. Weather Bureau
Belt II	Prince Georges	151	20	40.2	+4.5	65	13	5	4	38	2.17	-1.21	0.91	0.2	9	7	11	13	sw.	Bureau Plant Industry
Cambridge (near)	Dorchester	13	47	43.0	+4.8	65	29	16	4	30	1.99	-1.39	0.62	T.	10	17	2	12	s.	Matt Harding
Charlotte Hall	St. Marys	167	19			62	29	9	4		2.48	-0.26	1.10	T.	9					A. D. V. Burr
Cheltenham	Prince Georges	230	40	39.6	+3.5	64	13	7	4	36	2.60	-0.68	0.97	0.3	14	6	13	12	sw.	U. S. Magnetic Obs'y.
Chestertown	Kent	35	35	39.9	+4.0	65	25	12	4	37	2.61	-0.81	0.85	1.5	11	7	13	11	nw.	Thomas W. Eliason, Jr.
Chewsville	Washington	630	43	38.6	+5.8	62	10	5	4	37	2.56	-0.06	0.94	1.5	9	9	11	11	nw.	D. Paul Oswald
Coleman II	Kent	80	43	40.3	+4.1	61	29	13	4	29	3.38	-0.17	1.24	1.5	11	6	14	11	nw.	Russell G. Harris
College Park	Prince Georges	160	54	41.0	+4.8	62	10	8	4	37	2.55	-0.65	1.10	0.1	10	6	13	12	nw.	Russell G. Brown
Couowingo Dam	Harford	40	5	37.0		58	29	10	4	32	2.63		0.90	1.5	11	7	11	13		Susquehanna Electric Co.
Crisfield	Somerset	5	21	44.2	+3.6	61	29	17	4	26	1.93	-1.62	0.73	T.	10	10	9	12	s.	M. B. Thawley
Cumberland	Allegany	623	70	39.0	+4.8	62	10	8	4	35	2.52	-0.19	0.95	0.5	11	13	3	15	nw.	Paul J. Stein
Darlington	Harford	360	50	38.2	+4.5	60	29	7	4	37	3.01	-0.70	1.10	2.0	11	8	10	13	nw.	Fred. C. Jones
Dundalk	Baltimore	12	6	40.7		61	29	14	4	30	2.28		0.80	0.5	12	5	13	13	ne.	U. S. Airport Station
Easton	Talbot	35	50	41.8	+4.7	64	29	14	4	31	2.26	-0.90	0.56	0.5	10	17	2	12	n.	Clement E. Bray
Egmont	Washington	920	2								2.43		0.55	2.0	9					Lee G. Harne
Elkton	Cecil	28	14	39.6	+3.8	65	29	11	4	38	2.95	+0.10	1.30	2.0	11	13	6	12	nw.	H. W. Bouchele
Emmitsburg	Frederick	720	74								1.20		1.5	11						Mt. St. Mary's Seminary
Fallston II	Harford	450	71	39.2	+5.1	58	25	11	4	28	2.96	-0.64	1.35	1.5	11	6	14	11	s.	Miss Dora Curtiss
Ferry Landing II	Calvert	120	24	42.2	+4.4	66	13	11	4	33	2.44	-0.66	1.18	T.	8	14	4	13	s.	Thos. J. Bourne
Frederick	Frederick	325	71	39.8	+4.9	62	10	9	4	35	2.92	-0.33	0.59	0.8	11	13	7	11	w.	August T. Brust
Friensville	Garrett	1,980	22	38.0	+5.8	62	25	4	4	41	2.82	-0.83	0.60	3.0	13	6	5	20		Jonh J. Friend
Frostburg	Allegany	1,950	39	37.4	+5.4	58	25	2	4	34	2.02	-0.87	0.75	0.5	10	10	5	16		Thos. F. Lewis
Georgetown	Cecil	25	4	40.8		64	25	15	4	39	2.98		1.05	2.0	11	12	8	11	nw.	Capt. N. L. Riggins
Grantsville	Garrett	2,820	47																	Floyd J. Miller
Great Falls II	Montgomery	200	52	41.1	+6.6	63	10	7	4	37	2.17	-0.97	0.48	T.	12	7	12	12	nw.	John E. Bissett
Hancock	Washington	540	16								2.34	-0.37	0.96	0.7	11					Marvin K. Murray
Huntingtown	Calvert	420	5	41.6		65	13	9	4	29	1.94		0.84	T.	10	15	4	12	nw.	Elmer O. Bowen
Keedysville	Washington	400	37	40.0	+6.0	64	10	9	4	36	2.42	-0.30	0.76	1.0	9	9	11	11	nw.	J. A. Miller
La Plata	Charles	190	26																	
Laurel	Prince Georges	300	46	40.5	+5.5	61	29	9	4	31	2.53	-0.88	0.89	0.2	10	8	10	13		Evans G. Chaney
Leonardtown	St. Marys	50	16	42.5	+4.0	64	13	12	4	30	2.36	-0.24	1.00	T.	10	11	9	11	nw.	Dr. Eugene C. Peck
Luke	Allegany	950	3								1.81		0.68	0.1	12					J. G. Patrick
Lutherville	Baltimore	340	14	38.8	+3.6	60	10	7	4	40	3.03	+0.15	0.50	1.5	10	11	9	11	w.	Clarence J. Thomson, Jr.
Maryland Line	do	840	16	37.7	+3.5	57	113	6	4	27	2.72	-0.88	1.10	2.0	8	11	9	11	sw.	Chester L. Fulton
Millington	Kent	27	43	40.4	+4.3	62	125	10	4	38	2.37	-1.30	0.83	1.0	10	12	8	11	sw.	Henry L. Higman
Mt. Savage Summit II	Garrett	2,852	8	32.6		54	24	-1	4	37	2.03		0.58	2.2	12	6	6	19	nw.	U. S. Airway Station
Oakland	do	2,420	43	36.0	+6.2	64	24	-13	4	51	2.48	-1.46	0.45	2.6	15	6	5	20	w.	R. E. Weber
Ocean City	Worcester	10	2	43.4		58	113	20	4	25	2.10		0.63	T.	10	13	7	11	sw.	U. S. Airway Station
Oxford	Talbot	10	4	43.0		61	25	18	4	27	1.79		0.63	0.2	11	17	2	12	sw.	Henry Wilcox
Perryville	Cecil	40	5																	
Picardy II	Allegany	1,030	14	38.3	+3.7	61	10	2	4	34	1.81	-0.52	0.88	0.5	6	13	5	13	w.	American Fruit Growers
Pleasant Hill II	Baltimore	660	16								3.10	-0.33	0.97	1.0	10	11	9	11	nw.	Walter P. Quintin, Jr.
Pocomoke City	Worcester	37	32	44.2	+3.8	69	28	16	4	34	2.26	-1.22	0.53	T.	12	11	8	12	nw.	Raymond C. Dryden
Poolesville	Montgomery	460	2	41.2		62	10	9	4	29	2.28		0.56	0.4	8	10	10	11	nw.	Ralph F. Staley
Prettyboy Dam II	Baltimore	780	10	38.3	+3.2	58	125	7	4	26	3.03	+0.19	0.98	2.0	8					C. W. Hendrix
Princess Anne	Somerset	17	65	43.1	+4.4	66	28	12	4	36	2.13	-1.22	0.66	T.	8	11	8	12	nw.	James R. Stewart
Ridgely	Caroline	67	50	41.7	+5.2	62	29	13	4	34	2.06	-1.20	0.65	1.0	10	12	7	12	sw.	Albert White
Rock Hall	Kent	20	27																	
Salisbury	Wicomico	31	35	42.8	+4.0	65	28	9	4	36	2.85	-0.57	0.60	T.	10	16	4	11	w.	Brady C. Bounds
Silver Spring	Montgomery	310	2	40.8		62	10	9	4	30	2.43		0.82	T.	8	6	13	12	n.	O. L. Harvey
Sines (Deep Creek) II	Garrett	2,030	16	35.6	+5.2	62	16	-8	4	50	2.96	-0.40	0.56	4.6	19	6	5	20	sw.	C. E. MacMurray
Snow Hill	Worcester	20	25	44.3	+5.2	70	28	12	4	41	2.20	-1.55	0.80	T.	9	12	7	12	sw.	Richard Leake
Solomons	Calvert	20	49	43.5	+4.5	64	13	17	4	28	2.04	-0.68	0.72	T.	9	16	3	12	sw.	Chesapeake Biological L'b.
State Sanatorium	Frederick	1,460	32	37.3	+4.7	58	13	8	4	33	3.67	+0.51	1.15	1.5	8	12	8	11		Dr. V. F. Cullen
Stevensville	Queen Annes	12	14																	
Takoma	Montgomery	820	42	41.7	+6.5	64	13	10	4	31	2.34	-1.08	0.74	T.	10	6	13	12		Guy L. Seaman
Tonoloway II	Washington	550	30	38.2	+4.8	62	10	3	4	37	2.17	-0.54	1.09	0.5	6	13	6	12		American Fruit Growers
Towson	Baltimore	475	29								2.92	-0.38	0.72	0.5	11	9	11	11	nw.	S. Elmer Parks
Unionville	Frederick	450	1	38.6		60	125	9	4	36	2.68		0.99	1.0	11	10	10	11	nw.	G. Plitt Von Eiff, jr.
Western Port	Allegany	1,000	47	39.7	+6.1	63	10	5	4	38	2.03	-0.42	0.70	0.5	10					Norris Bruce
Westminster	Carroll	770	31	38.9	+3.7	63	25	7	4	39	2.92	-0.45	0.76	1.5	11	10	10	11	nw.	Harry J. Mathias
Williamsport	Washington	360	2								3.01		0.80	2.0	12					R. C. Willson
Woodstock	Baltimore	415	71	38.4	+4.0	60	13	4	4	35	3.22	-0.01	1.02	1.0	10	11	9	11	nw.	Woodstock College
<i>Dist. of Columbia</i>																				
Washington**		72	70	42.8	+6.2	63	10	16	4	29	2.27	-1.05	0.91	T.	11	6	12	13	nw.	U. S. Weather Bureau
<i>Delaware</i>																				
Bridgeville	Sussex	45	50	41.6	+4.1	64	29	8	4	37	1.49	-1.86								

Daily Precipitation for December 1940

Table with columns for Stations, Drainage basin, Day of month (1-31), and Total. Rows list various Maryland and Delaware locations such as Aberdeen, Annapolis, Baltimore, etc.

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 at 1:30 a.m.; amount then recorded is entered on preceding day.
6 Precipitation is measured with recording gage.
7 Precipitation is included in the next measurement.
T, Trace, or precipitation is less than .01 inch.
8 Two miles northwest of Frostburg.
9 Municipal Building.
10 Porter Reservoir.
11 University Farm.
12 Water Pumping Station.

Daily Temperatures for December 1940

Table with columns for Stations, Day of month (1-31), and Mean. Rows list various Delaware locations such as Bridgeville, Delaware Breakwater, Delaware City, etc.

Daily Temperatures for December 1940-Continued

Table with columns for Stations (Maryland), 1-31, and Mean. Rows list various locations like Aberdeen, Annapolis, Baltimore, etc., with their respective temperature data 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, Chestertown, Conowingo Dam, Sines, and Washington are from midnight to midnight; at Mt. Savage Summit and Delaware Breakwater the thermometers are read at 1:30 a.m., the extremes are charged to the preceding day; other stations, except Cheltenham, Cumberland, and Pocomoke City, are for 24-hour period ending late in afternoon, near sunset, except 9:30 p.m. at Princess Anne. (WBO, Richmond, Va., 2-17-41-1,200)