

# CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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## GENERAL SUMMARY

This was the first cold December since 1935. Monthly precipitation was above normal, except slightly below normal over the southern Eastern Shore. Monthly snowfall averaged one and one-half times the normal. Streams were high at the close of the month, but did not flood. Strong to gale force gusts on the 2d caused some minor damage locally. Monthly sunshine was 10% below normal.

Temperatures were mild on the 1st, 11-12th, 15th, and 18th. The 23d-31st was a prolong mild spell. Moderate cold prevailed during the 6-10th. Cold periods, ushered in by strong winds, were 2d-5th, 13-14th, 16-17th, and 19th-22d. The 19th-22d cold period was a cold wave; it produced below-zero temperatures on the 21st, except along the shores of the Chesapeake and Delaware Bays and along the Atlantic Coast.

Monthly precipitation ranged from slightly below 3 inches in St. Marys, southern Calvert, western Dorchester, and southern Talbot Counties to between 5 and 6 inches in the Allegheny Mountain region.

Monthly snowfall decreased from 20 to 24 inches in the highlands to 10 inches at the eastern foothills of the Allegheny Mountain region; over the remainder of the section the totals were between 3 and 10 inches. Light to moderate snow fell in western Maryland and snow flurries occurred in the central and eastern divisions on the 2d. Light snow fell on the 6th, 9th, and 18th and light to moderate snow on the 20th over the section. Light snow fell in southern Garrett County on the 12th. Snow flurries occurred over the section, except light snow fell in the Allegheny Mountain region and in northeastern Washington, northern Frederick, and northern Carroll Counties on the 13th. Snow flurries occurred on the 15th and light snow fell on the 16th, 17th, 19th, 30th, and 31st in the Allegheny Mountain region; snow flurries occurred over the remainder of the section on the 16th.

Grains were good and pastures were fair. Activities were husking corn, butchering, pruning fruit trees, hauling manure, stripping tobacco, cutting wood, and cutting timber. — J. B., jr.

## TEMPERATURE

The monthly mean for the section, 32.3°, is 3.1° below normal. The highest monthly mean was 37.4° at Crisfield; the lowest, 22.8°, at Mt. Savage Summit. The highest temperature, 67°, occurred at Pocomoke City on the 29th; the lowest, 25° below zero, at Oakland on the 21st. The greatest local monthly range was 79° at Oakland; the least, 46°, at Baltimore and Washington.

## PRECIPITATION

The monthly average for the section, 3.85 inches, is 0.67 inch above normal. The greatest monthly amount was 5.62 inches at Oakland and Sines; the least, 2.79 inches at Oxford. The greatest 24-hour rainfall was 1.68 inches at Williamsport during the 29-30th. The monthly average snowfall for the section, 6.9 inches, is 2.3 inches above normal. The

greatest monthly snowfall was 23.5 inches at Sines; the least, 3.0 inches, at Crisfield and Ocean City. The greatest 24-hour snowfall was 6.0 inches at Oakland, Western Port, and Milford on the 20th.

## MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light.—1, 2, 6, 9 to 12, 15 to 17, 22 to 30. Fogs, dense.—10 to 12, 22 to 30. Glaze, light.—Night 22. Halos, lunar.—15, 16, 17, 19, 26, 27. Halos, solar.—10, 14, 16, 17, 19, 25. Sleet, light.—6, 9, 13, 16, 27, 28, 29. Thunderstorms.—1, 13, 28. Winds, high.—2, 3, 13, 17, 18, 30, 31.

## 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.	1:30 p. m.	7:30 p. m.		
Aberdeen, Md.	30.73	27	28.91	2	9.0	..	..	..	74	64	71	..	1015
Annapolis, Md.	30.72	27	28.89	1	10.4	..	..	..	82	79	79	..	963
Baltimore, Md.	30.75	27	28.91	2	10.9	30	sw.	..	76	64	68	39	928
Elkins, W. Va.	30.79	21	29.08	1	7.6	30	w.	..	87	74	77	37	1051
Harrisburg, Pa.	30.76	27	28.86	1	8.5	30	w.	..	74	62	70	40	1067
Norfolk, Va.	30.70	21	29.03	2	10.9	40	w.	..	81	67	77	40	701
Philadelphia, Pa.	30.77	27	28.79	2	13.2	39	sw.	..	81	66	72	45	1000
Pittsburgh, Pa.	30.66	21	29.07	1	12.2	35	w.	..	86	73	82	26	1054
Washington, D. C.	30.72	27	28.96	1	8.2	37	w.	..	75	62	68	24	937

## COMPARATIVE DATA FOR DECEMBER

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	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	3.83	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	63	1	1.87	1.0	10
1900	34.4	68	-2	2.39	1.8	5	34.7	65	11	2.87	5.0	6
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	11
1904	29.6	64	-11	3.34	15.4	9	30.0	66	1	4.65	17.1	12
1905	36.4	84	-2	4.31	4.2	9	38.3	64	15	4.70	2.2	14
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	78	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	16	3.16	3.5	7
1916	35.4	76	-3	3.63	9.6	11	34.0	70	3	4.43	9.7	10
1917	26.4	59	-32	1.62	9.4	8	28.5	56	7	2.14	4.7	8
1918	49.3	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	8	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	43.7	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	68	-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	2.63	5.7	9	35.5	62	8	1.98	8.2	10
1931	42.6	72	9	2.47	0.7	8	44.4	69	18	3.22	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
1941	39.5	71	-6	3.47	0.7	8	40.7	68	13	3.70	T	7
1942	32.2	67	-25	3.86	7.1	13	32.9	63	12	3.80	5.8	12
Period.....	35.2	76	-32	3.15	4.7	9	36.8	76	-12	3.40	3.7	9

Climatological Data for December 1942

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	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall (unmelted)	With precip., 0.01 in. or more	Clear			Partly cloudy	Cloudy
<i>Maryland</i>																				
Aberdeen	Harford	26	24	32.2	-3.1	53	1	0	21	2.84	-0.27	0.75	1	5.0	14	3	12	16	w.	U. S. Army
Annapolis	Anne Arundel	4	77	34.0	-1.9	52	30	4	21	2.98	+0.56	0.82	1	4.1	13	6	6	19	nw.	U. S. Navy
Baltimore*	Prince Georges	14	72	34.9	-1.9	51	30	21	3.96	+0.59	1.12	29	5.1	15	3	6	18	sw.	U. S. Weather Bureau	
Bell	Prince Georges	151	22	32.6	-1.3	50	112	1	21	4.36	+0.58	1.25	2	6.2	11	5	8	19	nw.	Bureau Plant Industry
Blackwater	Dorchester	5	2	33.6	0	57	29	4	21	2.98	0	0.54	23	5.3	14	6	8	17	w.	National Wildlife Refuge
Cambridge (near)	do.	13	49	33.9	-3.4	59	30	4	21	2.92	+0.13	0.61	2	5.5	11	6	8	17	nw.	Miss. Aileen Harding
Charlotte Hall	St. Marys	167	21	33.9	-3.4	59	30	4	21	2.92	+0.13	0.61	2	5.5	11	6	8	17	nw.	A. D. V. Burr
Cheltenham	Prince Georges	230	42	31.9	-4.4	51	128	4	21	3.27	-0.01	0.86	2	4.1	15	4	9	18	nw.	U. S. Magnetic Obs'y.
Chestertown	Kent	35	37	32.0	-2.9	58	30	-2	21	3.74	+0.32	0.71	1	9.8	16	6	8	17	nw.	Thomas W. Eliason, Jr.
Cheswille	Washington	630	45	30.4	-2.6	49	24	-13	21	3.69	+1.07	0.83	30	5.4	12	5	13	13	nw.	D. Paul Oswald
Clear Spring	do.	560	43	30.4	-2.6	49	24	-13	21	3.69	+1.07	0.83	30	5.4	12	5	13	13	nw.	Mrs. Anna B. Cohill
Coleman	Kent	80	45	32.6	-1.7	53	30	1	21	3.56	+0.01	1.10	2	8.5	11	7	7	17	nw.	Walter B. Harris
College Park	Prince Georges	160	56	32.8	-1.5	50	1	-7	21	4.17	+0.97	1.09	30	5.2	12	5	8	18	nw.	Russell G. Brown
Conowingo Dam	Harford	40	7	30.2	-2	51	11	-1	21	4.50	1.35	30	5.7	15	6	9	16	nw.	Susquehanna Electric Co.	
Crisfield	Somerset	5	23	37.4	-3.4	58	30	-6	21	3.26	-0.29	0.79	9	3.0	9	6	9	16	n.	Grover C. Adams, Sr.
Cumberland	Allegany	623	72	30.0	-1.3	50	24	-5	21	4.13	+1.42	1.52	30	6.6	14	3	10	18	w.	J. E. Bangard
Dundalk	Baltimore	16	8	33.4	-1.3	51	1	1	21	4.23	+0.86	1.35	1	4.7	15	3	10	18	w.	U. S. Airport Station
Easton	Talbot	35	52	34.4	-1.8	61	30	-1	21	3.63	+0.47	0.69	23	5.7	12	6	8	17	nw.	Clement E. Bray
Edgemont	Washington	920	4	31.8	-3.9	52	2	0	21	3.57	0	1.33	30	8.0	9				nw.	Lee G. Harne
Elkton	Cecil	28	16	31.8	-3.9	52	2	0	21	4.06	+0.52	0.80	2	5.5	11	7	10	14	nw.	H. W. Bouchelle
Emmitsburg (near)	Frederick	720	76	31.1	-3.1	50	30	-4	21	3.82	+0.22	1.13	30	4.9	11	7	7	17	nw.	Mt. St. Mary's Seminary
Fallston	Harford	450	73	31.1	-3.1	50	30	-4	21	3.82	+0.22	1.13	30	4.9	11	7	7	17	nw.	Miss Dora Curtiss
Ferry Landing	Calvert	120	26	34.5	-3.6	58	30	-3	21	3.24	+0.14	0.76	2	7.2	11	6	6	19	ne.	Thos. J. Bourne
Fort George G. Meade	Anne Arundel	195	1	31.8	-3.8	47	12	-3	21	4.06	0.95	30	6.1	12	6	6	19	nw.	U. S. Army	
Frederick	Frederick	297	73	30.7	-4.3	47	2	-19	21	3.86	+0.61	0.92	30	7.5	15	6	10	15	s.	D. J. Markey, jr.
Friendsville	Garrett	1,950	24	26.6	-5.9	56	28	-12	21	4.66	+1.01	0.85	28	19.5	17	3	1	27	nw.	Joab J. Friend
Frostburg	Allegany	1,950	41	28.2	-4.0	46	24	-3	21	4.87	+1.98	0.78	30	14.5	16	4	8	19	w.	Thos. F. Lewis
Georgetown	Cecil	25	6	33.4	-1.4	59	30	0	21	3.70	0	0.60	30	7.5	12	7	10	14	ne.	Capt. N. L. Higgin
Germanstown	Montgomery	2	32.7			48	23	-4	21	4.56		1.24	29	7.0	11	8	9	14	nw.	Ralph F. Staley
Grantsville	Garrett	2,320	47	33.1	-1.7	56	26	-8	21	3.77	+0.53	1.50	30	5.5	13	7	7	17	nw.	John E. Bissett
Great Falls	Washington	428	18	33.2	-1.7	58	30	-4	21	2.95	+0.64	0.64	2	6.5	11	6	7	18	nw.	Marvin K. Murray
Hancock	Calvert	160	7	33.2	-1.7	58	30	-4	21	2.95	+0.64	0.64	2	6.5	11	6	7	18	nw.	Elmer O. Bowen
Huntingtown	Washington	420	39	31.4	-2.8	49	24	-15	21	3.58	+0.86	0.99	30	5.7	13	5	11	15	nw.	J. A. Miller
Keedysville	Charles	190	28	34.5	-3.8	54	30	-4	21	3.30	+0.31	0.90	2	6.0	11	6	8	17	nw.	Wallace S. Barnes
La Plata	Prince Georges	300	48	32.6	-2.6	48	23	-1	21	3.17	-0.24	0.70	30	4.9	10	6	8	17	nw.	Evans G. Chaney
Laurel	St. Marys	50	18	32.6	-2.6	48	23	-1	21	3.17	-0.24	0.70	30	4.9	10	6	8	17	nw.	Dr. Eugene C. Peck
Leonardtown	Allegany	950	5	29.0	-5.1	48	2	-5	21	4.53	+0.93	1.01	30	8.0	13				w.	J. G. Patrick
Luke	do.	840	18	29.0	-5.1	48	2	-5	21	4.53	+0.93	1.01	30	8.0	13				w.	Chester L. Fulton
Maryland Line	Kent	27	45	33.2	-3.1	62	30	-1	21	3.84	+0.17	0.66	23	9.5	13	7	8	16	nw.	Henry L. Higman
Millington	Garrett	2,852	10	22.8	-6.3	53	28	-11	21	5.51	+2.73	0.92	30	18.0	19	2	4	25	nw.	U. S. Airway Station
Mt. Savage Summit	do.	2,420	45	25.7	-4.3	54	28	-25	21	6.62	+1.70	0.93	28	23.2	19	3	1	27	w.	E. E. Weber
Oakland	Worcester	10	4	36.6	-1.3	57	1	2	21	5.22	0.86	30	4.0	14	7	5	16	nw.	U. S. Airway Station	
Ocean City	Talbot	10	4	35.2	-2	60	30	6	21	2.79	0.63	20	4.6	12	6	9	16	nw.	Henry Wilcox	
Oxford	Cecil	40	2	30.6	-4.0	49	23	-3	21	3.99	+1.31	0.85	30	7.0	12	8	9	14	nw.	Veterans Administration
Perry Point	Allegany	1,080	16	30.6	-4.0	49	23	-3	21	3.99	+1.31	0.85	30	7.0	12	8	9	14	nw.	American Fruit Growers
Picardy	Baltimore	680	18	30.6	-4.0	49	23	-3	21	3.99	+1.31	0.85	30	7.0	12	8	9	14	nw.	Walter P. Quintin, Jr.
Pleasant Hill	Worcester	37	34	36.8	-3.8	67	29	1	21	3.49	+0.01	1.64	9	5.5	15	7	8	19	nw.	Raymond C. Dryden
Pocomoke City	Baltimore	750	12	30.2	-4.7	46	2	-2	21	4.63	+1.56	1.50	30	5.0	20				nw.	C. W. Hendrix
Prettyboy Dam	Somerset	17	67	36.0	-2.8	62	128	-2	21	3.06	-0.29	1.00	30	3.2	11	8	7	16	nw.	James R. Stewart
Princess Anne	Caroline	67	52	33.0	-3.0	62	128	-2	21	3.06	-0.29	1.00	30	3.2	11	8	7	16	nw.	Albert White
Ridgely	Kent	20	29	33.0	-3.0	62	128	-2	21	3.06	-0.29	1.00	30	3.2	11	8	7	16	nw.	Geo. C. Simms
Rock Hall	Wicomico	31	36	37.2	-1.7	64	30	-2	21	3.49	+0.07	0.68	30	5.0	11	7	8	16	nw.	City of Salisbury
Salisbury	Montgomery	310	4	33.0	-1.7	69	23	-1	21	3.65	0.79	30	5.7	12	5	9	17	n.	O. L. Harvey	
Silver Spring	Garrett	2,030	18	25.6	-4.7	54	28	-17	21	5.62	+1.95	0.94	28	23.2	23	2	2	27	nw.	C. E. MacMurray
Sines (Deep Creek)	Worcester	20	27	35.4	-4.1	65	28	-2	21	3.63	-0.12	0.60	30	3.0	14	7	5	16	nw.	U. S. Airway Station
Snow Hill	Talbot	10	4	36.6	-1.3	57	1	2	21	5.22	0.86	30	4.0	14	7	5	16	nw.	Chesapeake Biological Lab.	
Solomons	Cecil	40	2	30.6	-4.0	49	23	-3	21	3.99	+1.31	0.85	30	7.0	12	8	9	14	nw.	Dr. V. F. Cullen
State Sanatorium	Frederick	1,450	34	28.8	-4.1	48	24	-1	21	4.89	+1.72	0.00	30	8.2	13	6	11	14	nw.	Dr. V. F. Cullen
Stevensville	Queen Annes	12	16	33.6	-1.9	51	23	-3	21	3.70	+0.28	0.76	30	5.3	11	4	9	18	nw.	Guy L. Seaman
Takoma	Washington	550	18	30.3	-3.7	48	24	-12	21	4.19	+1.53	1.01	30	7.5	11	8	9	14	nw.	American Fruit Growers
Tonoloway	Baltimore	475	31	30.4	-3.7	46	23	-19	21	3.75	+0.45	1.27	30	6.0	15	6	7	15	w.	S. Elmer Parks
Towson	Frederick	450	3	30.4	-3.7	46	23	-19	21	3.91	+0.45	1.14	30	6.1	14	8	8	18	sw.	G. Plitt Von Eiff, jr.
Unionville	Allegany	1,000	49	30.4	-3.5	48	24	-6	21	4.40	+1.95	0.65	128	10.7	15				nw.	Norris Bruce
Western Port	Carroll	770	33	31.0	-4.4	48	30	-10	21	4.27	+0.90	1.65	30	7						

Daily Precipitation for December 1942

Table with columns for Stations (Maryland), Drainage basin, Day of month (1-31), and Total. Rows list various stations like Aberdeen, Annapolis, Baltimore, etc., 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 measured in the morning; amount then recorded is for the preceding 24 hours.
4 Precipitation is measured at 1:30 a.m.; amount then recorded is entered on preceding day.
5 Precipitation is measured with recording gage.
6 Precipitation is included in the next measurement.
T. Trace, or precipitation is less than .01 inch.
7 Two miles northwest of Frostburg.
8 Municipal Building.
9 Porter Reservoir.
10 Water Pumping Station.
11 University Farm.

Daily Temperatures for December 1942

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

Daily Temperatures for December 1942-Continued

Table with columns for Stations (Maryland) and days 1-31, plus a Mean column. Rows list various locations like Aberdeen, Annapolis, Baltimore, etc., with their respective temperature data.

See page 46 for explanation of reference marks.

(WBO, Richmond, Va., 2-15-43-1,200)