

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. XXXIX BALTIMORE, MD., JANUARY, 1934 No. 1

**GENERAL SUMMARY**

This January was mild, but windy. Precipitation was below normal. Snowfall was confined to the Allegheny Mountain region, and was very light. The first half of the month was marked by cloudiness, high humidity, and most of the monthly rainfall; the second half, by much clear sky, abundant sunshine, and low humidity. Monthly sunshine and relative humidity averaged normal. Strong westerly winds, mostly northwest, were frequent.

The feature of the month was the cold wave of 29th-31st, ushered in by an unusually large fall in temperature. Daily minimum temperatures were zero to 6° below zero in the Allegheny Mountain region and mostly zero to 10° above zero over the remainder of the section. Heavy ice formed on ponds, and fairly heavy ice on streams and rivers and in Upper Chesapeake Bay.

Temperatures were mild or warm for the season from 1st to 28th, except moderately cold on 3d-4th and 17-18th. Outstanding warm days were 1st, 25th, 27th, and 28th.

Precipitation averaged three-fourths of normal. Monthly totals ranged from slightly below 2 inches to 3 inches, except 3 to 5 inches over the eastern slope and 5 to 6 inches in the highlands of the Allegheny Mountain region. Rain was heavy on 4-5th over the northern portion of the section and on 6-7th over western Maryland.

Snowfall averaged but 7 per cent of normal, the least of record for January. Monthly totals were a trace, except 0.5 inch to 5 inches over the eastern slope and 5 to 7 inches in the highlands of the Allegheny Mountain region. In the Allegheny Mountain region light snow fell on 10th, 13th, 14th, 29th, and 30th, and flurries occurred on 4th, 8th, 9th, 12th, 15th, 17th, 22d, 23d, and 28th. Flurries occurred in one or more divisions to eastward thereof on 3d, 4th, 8th, 9th, 13th, 17th, and 22d.

Grains and grasses were green over the northern portion of the section; over the southern portion they greened during the first decade and continued green thereafter. Grains made some growth and stooled well. Early sown grains were good; the late

(Continued on page 3)

**TEMPERATURE**

The monthly mean for the section, 37.1°, is 4.2° above normal. The highest monthly mean was 41.0° at Snow Hill; the lowest 29.2°, at Sines. The highest temperature, 70°, occurred at Annapolis, Baltimore, College Park, and Takoma on the 25th; the lowest, 6° below zero, at Friendsville on the 29th, at Grantsville and Oakland on the 30th. The greatest local monthly range was 69° at La Plata; the least, 49°, at Crisfield. The greatest daily range was 58° at La Plata on the 29th.

**PRECIPITATION**

The monthly average for the section, 2.49 inches, is 0.74 inch below normal. The greatest monthly amount was 5.66 inches at Grantsville; the least, 1.09 inches, at Keedysville. The greatest 24-hour amount was 1.80 inches at Darlington on the 4-5th. The average monthly snowfall for the section, 0.5 inch, is 6.6 inches below normal. The greatest monthly snowfall was 7.0 inches at Oakland. The average number of days with 0.01 inch or more of precipitation, 9, is 1 below normal.

**MISCELLANEOUS PHENOMENA (WITH DATES)**

*Aurora.*—Princess Anne, 6. *Corona, lunar.*—Woodstock, 27. *Fogs, light.*—1, 3 to 9, 12 to 15, 18, 19, 21 to 23, 26 to 28. *Fogs, dense.*—4, 5, 6, 7, 8, 13, 14, 22, 27. *Halos, lunar.*—27, 30, 31. *Solar.*—8, 24, 27. *Glaze, light (rain freezing upon falling).*—Baltimore, 15. *Rainbows.*—Grantsville, 28; Woodstock, 25. *Sleet, light.*—Aberdeen, 26; Allegheny Mountain region, 5; Baltimore, 12; Ferry Landing, 23; western Maryland, 22; Wilmington, 27. *Sun-dog.*—Princess Anne, 8. *Thunderstorm.*—Allegheny Mountain region, 1. *Wind, high.*—Northerly: Eastern Shore, 2. Westerly: Over section, 1, 8, 15, 16, 17, 19, 23, 28-29 (gales on coast), 30.

**PRESSURE, HUMIDITY, SUNSHINE AND WIND**

Stations	Atmospheric pressure reduced to sea level				Wind			Mean relative humidity			Percentage of sunshine		
	Average	Highest	Date	Lowest	Average hourly velocity	Maximum velocity	Direction	Date	s a. m.	Local n n		s p. m.	
Aberdeen, Md.	30.14	30.57	3	29.13	28	7.3	31	nw.	28	80	65	69	38
Baltimore Md.	30.14	30.57	3	29.16	28	10.7	39	nw.	28	72	60	67	55
Elkins, W. Va.	30.19	30.47	18	29.30	28	8.0	32	nw.	28	83	66	74	39
Harrisburg, Pa.	30.13	30.59	3	29.16	28	8.0	30	nw.	29	70	60	63	39
Norfolk, Va.	30.17	30.53	31	29.28	28	13.0	45	w.	28	79	64	67	53
Philadelphia, Pa.	30.15	30.63	3	29.17	28	12.7	34	w.	29	69	58	60	48
Pittsburgh, Pa.	30.15	30.55	2	29.28	28	11.7	41	nw.	28	78	69	70	29
Washington, D. C.	30.15	30.55	4	29.16	28	7.4	32	nw.	28	73	56	58	41

**COMPARATIVE DATA FOR MARYLAND AND DELAWARE FOR JANUARY**

Year	Temperature				Precipitation				Number of days				
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest	Least	Average snowfall	With 0.1 in. or more precipitate	Clear	Partly cly	Cloudy
1895	29.4	-3.5	66	-17	4.34	+1.11	9.89	1.87	13.0	12	9	10	12
1896	31.9	-1.0	66	-13	1.80	-1.43	3.33	0.90	1.0	4	12	8	11
1897	29.5	-3.4	66	-12	1.95	-1.28	3.97	0.81	8.3	7	13	7	11
1898	35.5	+2.6	72	-2	3.56	+0.33	8.95	1.24	4.3	11	11	8	12
1899	32.2	-0.7	70	-24	3.33	+0.10	6.59	1.31	5.6	10	15	5	11
1900	33.7	+0.8	69	-8	2.43	-0.80	3.79	1.34	1.8	7	14	7	10
1901	32.6	-0.3	68	-4	2.70	-0.53	6.22	1.14	8.3	7	13	7	11
1902	29.9	-3.0	64	-7	3.53	+0.30	6.75	1.80	9.9	8	12	7	12
1903	31.6	-1.3	62	-6	3.99	+0.76	6.08	2.30	6.4	9	11	8	12
1904	26.0	-6.9	64	-20	2.53	-0.70	4.67	1.07	14.5	10	13	6	12
1905	28.7	-4.2	69	-14	3.71	+0.48	4.72	1.67	17.7	11	11	8	12
1906	38.8	+5.9	76	-6	2.88	-0.35	4.74	1.08	2.3	10	12	8	11
1907	35.8	+2.9	77	-19	3.08	-0.15	7.00	1.28	5.9	12	9	9	13
1908	32.8	-0.1	63	-21	3.26	+0.03	4.93	2.11	7.0	8	15	9	7
1909	35.3	+2.4	71	-3	2.75	-0.48	3.58	1.48	5.9	10	10	8	13
1910	32.1	-0.8	69	-12	4.34	+1.11	5.81	1.40	11.5	12	9	8	14
1911	36.9	+4.0	76	-5	3.98	+0.75	3.17	1.90	4.1	12	12	7	12
1912	24.0	-8.9	60	-40	2.68	-0.55	4.40	1.42	16.0	10	11	10	10
1913	41.9	+9.0	74	8	3.17	-0.06	5.85	2.21	2.0	18	11	8	12
1914	36.1	+3.2	76	-14	3.84	+0.61	6.07	1.71	3.6	7	10	10	11
1915	34.2	+1.3	67	-1	5.87	+2.64	8.41	3.38	6.0	12	12	7	12
1916	38.1	+5.2	74	-11	1.74	-1.49	4.47	0.90	3.2	11	12	7	12
1917	33.4	+0.5	66	0	3.06	-0.17	5.04	1.40	4.1	10	12	7	12
1918	21.5	-11.4	61	-30	4.24	+1.01	6.11	2.25	23.7	10	11	6	12
1919	36.2	+3.3	66	-13	3.50	+0.27	4.70	1.45	2.5	7	17	6	8
1920	27.8	-5.1	64	-10	2.47	-0.76	3.93	1.20	2.8	10	12	6	13
1921	35.7	+2.8	70	-5	2.29	-0.94	4.15	1.05	1.4	8	12	8	11
1922	30.3	-2.6	63	-15	3.96	+0.73	5.63	1.39	22.3	9	12	5	14
1923	34.8	+1.9	68	0	4.18	+0.95	6.14	2.49	6.0	12	8	9	14
1924	33.7	+0.8	67	-10	4.06	+0.83	6.10	2.45	1.6	7	14	8	9
1925	31.2	-1.7	63	-31	4.68	+1.45	7.63	3.14	17.2	12	12	4	15
1926	32.4	-0.5	72	-11	3.10	-0.13	4.59	2.26	4.2	10	12	9	10
1927	32.7	-0.2	78	-5	1.60	-1.63	4.20	0.74	2.4	11	9	7	15
1928	34.3	+1.4	72	-11	2.52	-0.71	4.65	0.71	9.7	7	17	5	9
1929	32.9	0.0	69	-13	2.68	-0.55	4.22	1.22	2.2	10	12	6	13
1930	34.1	+1.2	75	-17	2.75	-0.48	4.31	0.66	11.2	11	10	6	15
1931	34.6	+1.7	66	-8	1.68	-1.55	2.35	0.71	1.4	5	13	10	8
1932	44.7	+11.8	80	13	5.04	+1.51	6.68	2.33	1.1	12	8	7	16
1933	41.0	+8.1	70	4	3.18	-0.05	5.09	1.36	1.4	9	10	10	11
1934	37.1	+4.2	70	-6	2.49	-0.74	5.66	1.09	0.5	9	9	11	11
Period.	32.9	.....	80	-40	3.23	.....	9.89	0.56	7.1	10	12	7	12

Climatological Data, January, 1934

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall), Number of days (With precip., Clear, Partly cloudy, Cloudy), Prevailing direction of wind, Observers.

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. Also on other dates.
Municipal Building. Porter Reservoir.
Custom House, Gay and Water Sts. Weather Bureau Building, 24th and M Sts.



Daily Temperatures for January, 1934

Table with columns for Stations, 1-31, and Mean. Rows list various Maryland and Delaware locations with their daily temperature readings for January 1934.

Instruments are read in morning; maximum temperature then read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Baltimore, Sines and Washington are from midnight to midnight; other stations, except Cumberland, are for 24-hour period ending late in afternoon, near sunset.