

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

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In Cooperation with Maryland State Weather Service

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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PRICE: 5 CENTS A COPY; 50 CENTS A YEAR.

VOL. XXXVIII BALTIMORE, MD., OCTOBER, 1933 No. 10

GENERAL SUMMARY

Dry and sunny weather, typical of autumn, characterized this October, which was cooler than normal and the coolest October since 1930. Monthly sunshine, nearly 15 per cent above normal, was the greatest in October since 1924. Prolonged periods of clear sky were 6-12th and 25th-31st; of mostly cloudy weather, 16-18th; and of overcast sky, 23d-24th. Relative humidity averaged slightly below normal. Strong northwest winds on the 25th were not damaging. Trees retained their autumn colored foliage throughout the month.

Summer temperature featured the 1st. This was the warmest day, with maxima around 90° in western Maryland, except around 80° in the Allegheny Mountain region, and around 85° in the central and eastern divisions, except around 80° over Chesapeake Bay. The 2d-6th and 9-11th were cool. The 13-15th and 18-19th were moderately cold. The 23d-29th was a period of prolonged cold. The 26th was the coldest day, with minima 19° to 30°, except 16° to 19° in the Allegheny Mountain region. Warm and balmy weather on the 30th-31st marked the close of the month.

The first killing frost this autumn occurred about one week later than normal, except about three weeks later than normal in the Allegheny Mountain region and about normal in the Chesapeake Bay region.

Monthly rainfall totaled between 1 and 2 inches in western Maryland and on the Eastern Shore, and between 2 and 3 inches in southern and north-central Maryland, except between 3 and 4 inches in the Blue Ridge Mountain region.

During the first half of the month late corn was cut and shocked, late tobacco was cut, and harvesting of tomatoes and sugar corn ended. Harvesting truck and gardens, picking late apples and keiffer pears, digging sweet potatoes, husking and cribbing corn, threshing cowpeas and soy beans, and cutting wood were in progress. Digging late potatoes continued in western Maryland, and began during the last week in central and eastern divisions. Sowing grains was finished in western Maryland, but not in the other divisions. Grains, that came up during the last decade of September in western Maryland, made very good growth. Grains, that were sown during the early part of this month, came up to good stand. Pastures were good, except fair on the southern Eastern Shore. — J. B., jr.

TEMPERATURE

The monthly mean for the section, 55.0°, is 1.2° above normal. The highest monthly mean was 59.6° at Crisfield; the lowest, 46.6°, at Sines. The highest temperature, 92°, occurred at Clear Spring on the 1st; the lowest, 16°, at Friendsville, Grantsville, and Oakland on the 26th. The greatest local monthly range was 71° at Hancock; the least, 50°, at Stevensville. The greatest daily range was 46° at Oakland on the 15th and at Hancock on the 30th.

PRECIPITATION

The monthly average for the section, 1.95 inches, is 0.93 inch below normal. The greatest monthly amount was 3.84 inches at Chewsville; the least, 0.88 inch, at Bridgeville. The greatest 24-hour amount was 1.89 inches at Chewsville on the 1st. The average number of days with 0.01 inch or more, 6, is 1 below normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Corona, lunar. — Parkton, 1. Rainbow. — Friendsville, 18.
 Fogs, light. — 5 to 8; 10 to 19; 21 to 31.
 Fogs, dense. — 5 to 8; 12; 15; 16; 22 to 25; 27 to 31.
 Frosts, light. — Allegheny Mountain region, 6; central and eastern divisions, 14, 30; Eastern Shore, 19.
 Frosts, heavy. — Allegheny Mountain region, 3, 7, 11; central and eastern divisions, 15; north-central and southern Maryland, 19; Washington County, 30.
 Frosts, killing. — Western Maryland, 14, 15, 19; Allegheny Mountain region, 16, 18; entire section, 26, 27, 29.
 Halos, lunar. — 2, 28. Halos, solar. — 1, 4, 14, 19.
 Snow flurries. — Allegheny Mountain region, 25.
 Thunderstorm. — 1. Wind, high. — Northwest, 25.

PRESSURE, HUMIDITY, SUNSHINE AND WIND

Stations	Atmospheric pressure reduced to sea level					Wind			Mean relative humidity			Percentage of sunshine	
	Average	Highest	Lowest	Date	Date	Average hourly velocity	Maximum velocity	Direction	Date	8 a. m.	Local n'n		8 p. m.
Aberdeen, Md.	30.13	30.53	21	29.59	7	6.0	28	nw.	25	80	68	82	73
Baltimore Md.	30.13	30.53	21	29.60	8	9.3	34	nw.	25	71	53	66	77
Elkins, W. Va.	30.19	30.49	16	29.63	8	5.3	26	nw.	24	89	54	78	51
Harrisburg, Pa.	30.13	30.55	21	29.59	8	6.4	21	nw.	25	76	53	64	68
Norfolk, Va.	30.12	30.49	21	29.67	8	11.4	31	n.	25	79	59	71	79
Philadelphia, Pa.	30.14	30.58	21	29.58	8	12.1	39	nw.	25	72	54	62	72
Pittsburgh, Pa.	30.14	30.44	3	29.64	3	29.64	35	nw.	24	79	52	58	50
Washington, D. C.	30.13	30.50	21	29.61	7	5.5	25	nw.	25	79	55	72	67

COMPARATIVE DATA FOR MARYLAND AND DELAWARE FOR OCTOBER

Year	Temperature				Precipitation				Number of days				
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest	Least	Average snowfall	With .01 in. or more precipita n	Clear	Partly cly	Cloudy
1895....	50.3	-5.9	82	4	1.96	-0.92	3.59	0.44	T.	4	23	5	3
1896....	52.6	-3.6	85	16	1.69	-1.19	-5.19	0.80	T.	5	15	8	8
1897....	56.6	+0.4	91	20	3.21	+0.33	8.17	0.55	0.0	8	13	7	11
1898....	57.0	+0.8	89	17	4.81	+1.93	8.28	2.87	T.	10	15	7	9
1899....	57.2	+1.0	88	15	2.67	-0.21	5.34	0.35	0.0	5	16	7	8
1900....	60.6	+4.4	91	20	2.13	-0.75	5.30	1.10	T.	4	13	8	10
1901....	54.9	-1.3	92	16	1.17	-1.71	2.27	0.21	T.	4	10	7	4
1902....	57.3	+1.1	89	17	5.70	+2.82	10.72	2.05	T.	7	16	7	8
1903....	56.6	+0.4	89	20	4.28	+1.40	9.63	1.58	T.	7	14	8	9
1904....	53.6	-2.6	91	14	2.62	-0.26	5.30	1.13	T.	3	20	7	4
1905....	56.6	+0.4	93	20	2.77	-0.11	5.75	1.10	T.	6	17	8	6
1906....	55.5	-0.7	88	12	5.09	+2.21	-9.02	1.80	0.1	14	10	10	14
1907....	51.2	-5.0	83	15	2.41	-0.47	-4.23	1.03	T.	6	21	7	3
1908....	57.5	+1.3	80	15	2.28	-0.60	-4.26	0.53	0.0	6	17	7	7
1909....	51.7	-4.5	86	19	1.72	-1.16	-4.41	0.51	T.	6	18	7	6
1910....	58.9	+2.7	92	15	3.46	+0.58	-8.26	0.98	0.1	7	19	7	5
1911....	56.3	+0.1	85	23	3.40	+0.52	6.23	2.03	T.	10	12	7	12
1912....	58.1	+1.9	96	18	1.62	-1.26	8.98	0.21	T.	4	20	6	5
1913....	58.2	+2.0	94	13	4.57	+1.69	6.45	1.78	T.	11	12	8	11
1914....	59.3	+3.1	93	13	1.74	-1.74	3.19	0.39	T.	6	14	8	9
1915....	57.9	+1.7	88	19	3.88	+1.00	6.06	1.85	T.	9	16	7	8
1916....	55.6	-0.6	91	19	1.90	-0.98	4.05	-0.89	T.	-5	18	8	5
1917....	50.9	-5.3	87	18	5.83	+2.95	9.55	2.01	1.0	10	15	8	8
1918....	59.6	+3.4	89	21	1.36	-1.52	3.22	1.16	-0.0	6	17	8	6
1919....	62.5	+6.3	96	27	3.21	+0.33	6.55	1.30	0.0	10	10	9	12
1920....	60.3	+4.1	91	25	0.87	-2.01	2.35	0.17	0.1	2	22	5	4
1921....	55.9	-0.3	85	20	1.08	-1.80	2.62	0.51	T.	5	21	6	4
1922....	58.4	+2.2	94	15	1.87	-1.01	5.58	0.74	0.0	6	19	7	5
1923....	54.9	-1.3	90	18	2.53	-0.35	4.08	0.78	T.	6	17	8	6
1924....	56.0	-0.2	88	15	0.40	-2.48	1.78	T.	0.0	2	24	4	3
1925....	51.2	-5.0	87	16	5.88	+2.50	9.48	3.28	3.2	15	7	11	13
1926....	56.0	-0.2	94	21	3.28	+0.40	5.61	1.59	0.1	10	12	9	10
1927....	58.7	+2.5	98	24	5.88	+3.00	10.63	3.19	0.5	9	20	4	7
1928....	57.3	+1.6	90	13	1.03	-1.85	2.27	0.19	T.	5	16	8	7
1929....	53.6	-2.6	85	23	5.44	+2.56	9.27	2.41	0.1	9	15	8	6
1930....	54.1	-2.1	89	7	0.82	-2.06	2.29	T.	0.1	5	16	9	6
1931....	59.3	+3.1	91	22	1.78	-1.10	4.08	0.71	T.	6	17	9	5
1932....	56.7	+0.5	88	22	6.39	+3.51	12.68	3.33	0.1	9	10	9	12
1933....	55.0	-1.2	92	16	1.95	-0.93	3.84	0.88	T.	6	19	7	5
Period.	56.2	98	4	2.88	12.68	T.	0.1	7	17	7	7

Daily Temperatures for October, 1933

Table with columns for Stations, 31 days (1-31), and Mean. Rows list various Maryland and Delaware stations such as Aberdeen, Annapolis, Baltimore, etc., with corresponding temperature readings.

§§ 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. (W. B., Richmond, Va., 11-29-33-930)