

# CLIMATOLOGICAL DATA

15

MARYLAND AND DELAWARE SECTION

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VOL. XLIX BALTIMORE, MD., NOVEMBER 1945 No. 11

### GENERAL SUMMARY

This November was mild and wet. Monthly precipitation averaged one and two-thirds times the normal. Monthly amounts were well above normal, except slightly below normal at Annapolis, Rock Hall, and Dover. Rain was frequent during the second decade. Prolonged periods of cloudiness were the 10-14th and 28-30th. Cloudiness during the month reduced the monthly sunshine to 10 per cent below normal. Thanksgiving Day, the 22d, was a mild sunny day, preceded by rain during the night of the 21st-22d.

Mild weather during the first and second decades was interrupted by cool periods of the 4-5th, 11th, and 15th. Warm days were the 2d, 3d, 8th, 9th, and 13th. The third decade was cool, except for mild temperatures on the 22d and 28th.

Monthly rainfall was between 4 and 5 inches over the western and central divisions, except between 5 and 6.5 inches in Garrett, extreme north-eastern Washington, and Frederick Counties and between 3 and 4 inches in St. Marys, Charles, Calvert, Anne Arundel, and Harford Counties, except less than 3 inches in extreme eastern Anne Arundel and extreme southeastern Baltimore Counties, with the least amount of 2.18 inches at Annapolis. On the Eastern Shore monthly rainfall was between 3 and 4 inches, except 4 to 5 inches in extreme northern New Castle County, 4 to 5.2 inches in northern Cecil, Dorchester, Somerset, and southern Worcester Counties, and 2.4 to 3 inches over the east-west central portion of the Eastern Shore.

Monthly snowfall was light and averaged one-third of normal. Snow flurries occurred on the 14th, 15th, and 30th and light snow fell during the night of the 21st-22d and on the 23d, 24th, 27th, and 29th in the Allegheny Mountain region. Light snow fell also on the 15th and 30th over the southern portion, and moderate snow fell on the 23d over the central portion of the Allegheny Mountain region. Snow flurries occurred over the section between the Allegheny Mountains and the eastern boundary of the section, except light snow fell in the Bridgeville, Lewes, and Snow Hill districts, on the 23d; between the Allegheny Mountains and the Chesapeake Bay, except light snow fell in northeast Washington and extreme northern Frederick Counties, on the 29th; and between the Allegheny Mountains and the Chesapeake Bay and over the northern Eastern Shore on the 30th.

Early sown grains and autumn crops were in good condition, were good color, and made good growth. Cutting and shocking field corn, digging late potatoes, and sowing grains and grasses ended. Husking corn, plowing, hauling and spreading manure, cutting wood, hauling fodder, pruning fruit trees, and butchering were in progress. Field corn ears were well filled. Field corn was yielding good to excellent. Pastures were good. The underground water supply improved.

### TEMPERATURE

The monthly mean for the section, 47.7°, is 2.4° above normal. The highest monthly mean was 56.2°, at Crisfield; the lowest, 39.6°, at Sines. The highest temperature, 81°, occurred at Millsboro on the 2d; the lowest, 12°, at Oakland and Sines on the 26th. The greatest local monthly range was 63° at Frostburg; the least, 43°, at Crisfield.

### PRECIPITATION

The monthly average for the section, 4.19 inches, is 1.55 inches above normal. The greatest monthly amount was 6.48 inches at Sines; the least, 2.18 inches, at Annapolis. The greatest 24-hour rainfall was 2.45 inches at State Sanatorium on the 27-28th. The average monthly snowfall for the section, 0.4 inch, is 0.7 inch below normal. The greatest monthly snowfall was 11.7 inches at Oakland. The greatest 24-hour snowfall was 5.5 inches at Sines on the 23d.

### ERRATA

May, 1945.—Page 18, Friendsville, highest temperature and date should be 85° and 16th. Picardy, highest temperature and date should be 90° and 21st. Lewes, lowest temperature and date should be 39° and 1st.  
June, 1945.—Page 22, Friendsville, monthly mean temperature and departure from normal should be 65.2° and -0.2°. Newark, monthly mean temperature and departure from normal should be 71.0° and +1.5°.

### MISCELLANEOUS PHENOMENA (WITH DATES)

Light fogs.—2-9, 11-14, 18-20, 22, 26-29. Heavy fogs.—2, 7, 8, 11-13. Glaze, light.—Sines, 30. Halos, lunar.—16, 17, 21. Halos, solar.—2, 8. Sleet, light.—29. Thunderstorms.—2, 19, 28, 29. Winds, high.—2-5, 8-10, 13-15, 18-25, 28-30. Frogs croaking as in Spring.—Millington, 2.

**EVAPORATION STATION: Beltsville, Md. (Elevation, 120 feet)**  
U. S. Bureau Dairying Industry, Joseph B. Shepherd, in charge  
(Evaporation Tank: 10 inches deep, 48 inches in diameter)

Precipitation, 4.02; evaporation, 2.478; average daily wind movement, 78.4.

### 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. ....	30.57	10	29.51	29	10.6	.....	.....	.....	81	57	73	.....	548
Annapolis, Md. ....	30.53	10	29.58	22	10.6	.....	.....	.....	77	57	63	.....	468
Baltimore, Md. ....	30.59	10	29.52	29	10.4	82	se.	22	76	56	62	56	464
Elkins, W. Va. ....	30.52	10	29.54	22	7.6	39	w.	22	85	66	82	41	673
Harrisburg, Pa. ....	30.61	10	29.55	22	8.4	34	n.w.	20	79	58	70	37	613
Norfolk, Va. ....	30.48	11	29.55	14	10.8	33	n.w.	14	86	60	75	61	338
Philadelphia, Pa. ....	30.57	10	29.50	29	7.9	28	se.	22	95	60	74	48	496
Pittsburgh, Pa. ....	30.58	10	29.54	21	10.9	34	w.	22	74	68	73	24	588
Washington, D. C. ....	30.57	10	29.54	29	7.8	25	n.	14	78	55	67	43	485

### COMPARATIVE DATA FOR NOVEMBER

Year	FOR MARYLAND					FOR DELAWARE						
	Temperature			Precipitation		Temperature			Precipitation			
	Mean	Highest	Lowest	Average	Average snowfall with .01 in. or more	Mean	Highest	Lowest	Average	Average snowfall with .01 in. or more		
1895.....	45.6	86	0	1.64	0.1	7	47.9	78	24	1.94	T.	8
1896.....	49.1	78	12	3.07	2.2	7	51.6	78	25	3.18	1.7	10
1897.....	45.0	78	5	4.76	0.2	12	46.6	72	21	3.78	T.	13
1898.....	42.8	78	6	3.82	5.5	11	44.2	73	22	4.58	5.5	12
1899.....	44.9	73	12	2.02	T.	6	45.0	66	22	2.15	0.0	6
1900.....	47.5	81	4	3.00	1.0	8	49.9	76	22	2.59	T.	6
1901.....	39.1	74	4	2.72	2.3	5	40.6	76	17	2.20	1.2	4
1902.....	50.8	80	11	3.12	0.3	8	52.2	80	27	3.06	0.0	0
1903.....	40.9	82	1	1.17	0.8	5	42.5	79	12	1.36	0.1	5
1904.....	41.9	72	11	1.62	2.2	4	42.2	67	18	2.17	0.1	1
1905.....	43.2	77	10	1.30	0.1	6	44.8	73	14	1.09	0.4	6
1906.....	45.2	78	15	1.43	1.0	5	46.0	75	22	1.92	0.1	12
1907.....	42.8	70	10	5.27	1.0	11	48.2	70	20	5.73	0.1	8
1908.....	44.5	76	3	0.95	4.2	3	45.9	76	20	1.31	0.1	1
1909.....	49.1	85	11	1.16	1.0	6	49.6	79	23	2.12	1.2	7
1910.....	40.9	76	2	2.05	3.5	8	42.1	74	18	2.44	0.2	6
1911.....	42.3	82	6	3.99	0.5	10	44.7	72	20	5.31	0.0	11
1912.....	46.1	79	10	2.04	1.2	5	47.8	78	14	2.74	3.0	5
1913.....	47.0	87	10	2.19	1.2	7	48.8	79	27	1.54	T.	6
1914.....	44.2	82	0	2.04	0.1	3	46.8	80	15	1.96	T.	3
1915.....	44.8	79	14	1.46	T.	7	46.6	76	19	0.92	T.	4
1916.....	44.9	83	9	2.18	0.1	8	45.4	74	15	2.28	T.	3
1917.....	41.2	76	1	0.60	1.9	4	41.5	70	15	0.49	1.6	3
1918.....	44.9	74	13	1.47	0.1	5	45.4	71	17	1.27	0.0	4
1919.....	45.5	81	11	3.29	0.1	11	46.6	78	20	3.35	0.0	10
1920.....	44.4	76	3	3.82	0.8	10	46.3	75	16	5.88	0.0	10
1921.....	46.7	82	15	4.34	0.1	13	48.4	81	25	3.98	T.	13
1922.....	46.2	75	14	0.65	0.5	5	47.0	74	23	0.82	T.	7
1923.....	43.9	68	12	2.60	0.2	9	45.0	67	21	2.85	0.0	3
1924.....	44.4	79	10	1.79	1.8	5	46.2	79	16	2.13	0.3	6
1925.....	42.9	74	6	3.11	0.3	10	45.0	74	20	3.04	0.2	9
1926.....	43.0	78	7	4.45	0.1	8	44.9	75	19	3.70	T.	8
1927.....	49.7	79	9	2.78	0.3	9	51.2	79	22	3.44	T.	10
1928.....	47.0	80	13	1.89	1.3	8	48.3	79	21	1.72	T.	9
1929.....	45.8	85	7	2.62	1.8	11	43.0	82	11	2.62	1.4	12
1930.....	44.6	75	16	1.19	0.8	9	46.8	74	8	2.04	T.	9
1931.....	51.6	80	16	0.95	0.9	6	52.9	79	28	0.86	0.1	5
1932.....	43.2	72	2	5.22	T.	9	45.7	70	18	5.50	T.	9
1933.....	42.5	81	8	1.88	2.0	7	44.2	75	10	1.63	0.2	5
1934.....	47.8	80	10	1.86	2.2	10	49.1	76	20	3.65	T.	9
1935.....	48.4	86	9	4.32	0.8	12	50.4	80	23	5.34	1.1	15
1936.....	43.0	82	4	1.02	0.7	6	44.8	80	15	0.93	T.	6
1937.....	44.2	79	3	3.43	0.6	7	46.2	77	19	3.61	T.	8
1938.....	47.7	85	8	2.77	8.6	10	49.8	81	8	2.95	6.3	11
1939.....	43.4	75	12	1.33	1.4	5	43.9	71	23	1.36	T.	6
1940.....	45.4	77	14	5.14	1.1	10	46.5	75	20	4.66	T.	9
1941.....	47.8	78	11	1.77	T.	5	49.0	76	20	2.23	T.	5
1942.....	46.7	81	11	2.34	0.1	10	48.2	77	16	2.84	T.	9
1943.....	44.0	76	10	3.03	0.4	6	45.1	75	19	2.96	T.	5
1944.....	45.0	78	8	3.36	0.8	8	45.9	75	20	5.07	T.	8
1945.....	47.5	80	12	4.21	0.4	12	49.3	81	19	4.11	0.1	13
Period.....	45.1	87	-16	2.58	1.1	8	46.6	82	8	2.77	0.5	8

Climatological Data for November 1945

Table with columns: STATIONS, COUNTIES, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date), Precipitation (Total, Departure from normal, Greatest in 24 hours, Date), Number of days (Total snowfall, With precip., Clear, Partly cloudy, Cloudy), Prevailing direction of wind, OBSERVERS. Includes data for Maryland and Delaware stations.

All departures from normal are computed from the averages of the entire period for stations having 10 or more years of record... Thermometers are read in morning; maximum temperature then read is charged to preceding day...

Daily Precipitation for November 1945

Stations	Drainage basin	Day of month																															Total				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
<i>Maryland</i>																																					
Aberdeen <sup>4</sup>	Atlantic.	T.	.03	.03							T.	.02	.08	.01	.48	.06			.08	T.	.69	T.	.15	.74									.54	1.20	.19	T.	4.15
Annapolis <sup>1</sup>	do		.07	.03							T.	.03	T.	T.	.51	.09				T.	.29	.05	.39	T.									.02	.48	.22	T.	2.18
Baltimore <sup>1</sup>	do	T.	.12	T.							.01	.01	T.	.46	.07					T.	.62	.24	.96									.03	1.27	.12	T.	3.92	
Bell	do		T.	.22							T.	.04	.02	T.	.05	.62					.01	.38	.01											1.60	.23	.03	4.54
Beltsville <sup>2</sup>	do			.14							T.	.02	.02	T.	.32					T.		.47		1.13									.50	1.03	.29	4.02	
Blackwater	do			.48							T.	.08	T.	.04	.80	.41						.59		1.56	T.							.55	.24	.18	4.82		
Charlotte Hall	do			.34							T.	.02	T.	.02	.51						T.	.58	T.	.48	T.							.82	.40	T.	3.12		
Cheltenham <sup>2</sup>	do		T.	.23							T.	.03	.02	T.	.40	.58					T.	.42	.52	1.02	T.							.13	1.15	.40	4.48		
Chestertown	do			.09							.04	.02	.04	T.	.26	.44					T.	.08	.72	T.	.56	T.						.06	1.35	.09	T.	3.81	
Chewsville	do	T.	.05	.43							.12	.11	.07	T.	.26	.37					T.	.10	.72	T.	.50	T.						.06	1.59	.33	T.	4.74	
Clear Spring	do		.42	.43							.31	.29	.19	T.	.39	.80					T.	.11	.97	T.	.68	17						.07	1.71	.43	T.	6.19	
Coleman	do			.10							T.	.01	.04	T.	.44	.35						.05	.36	T.	.60								1.35	.20	T.	3.49	
College Park	do		T.	.14							T.	.01	.02	T.	.16	.42						.47	.02	1.20	T.								1.43	.41	.02	4.30	
Conowingo Dam <sup>2</sup>	do	T.	.02								T.	.03	.12	T.	.09	.41					.07		.66	1.20								.20	1.64	.18	4.62		
Crisfield	do			.61							.05	T.	.05	T.	.63	.29						.48	.24	.24	T.							1.48	.25	.07	4.34		
Cumberland <sup>2</sup>	do		.55								.04	.45	.03	T.	.17	.27					.03	.01	.64	.75								.89	.32	T.	4.15		
Dundalk <sup>3</sup>	do	T.	.11	.01							.01	.02	T.	.01	.10	.10					T.	.50		.18	.66							.02	1.06	.12	T.	2.90	
Easton	do			.35							T.	.03	.05	T.	.30	.40					T.	.47	.47		.65	T.						.02	1.06	.12	T.	2.78	
Edgemont <sup>2</sup>	do		.39	.10								.25	.10	T.	.22	.52					.03		1.15	.90								.70	1.44	.42	T.	6.22	
Elkton	do	T.	.10								T.	*	.10	.08	.38	.29					T.	.06	.63	.06	.98							T.	2.10	.32	T.	5.18	
Emmitsburg	do		.20	.20							.02	.09	.06	T.	.52							.85	.02	.33	T.							T.	2.57	T.	4.97		
Fallston	do		.01	.06							T.	.05	.04	.01	.13	.23					T.	.06	.74	T.	1.37							.65	1.15	.02	3.51		
Ferry Landing	do			.25							T.	.10	.03	T.	.21	.51						.43	.14		1.37							.81	.20	T.	3.41		
Fort George G. Meade	do		T.	.09							T.	.08	.05	.01	.06	.60						.01	.51	T.	1.21	T.						1.30	T.	.02	6.66		
Frederick	do		.04	.21							.06	.02	T.	.01	.23	.23						.61	.02	.94	T.							.01	2.27	.86	.01	5.09	
Frederick Airport <sup>3</sup>	do		.21	.04							.10	.01	.01	T.	.35	.05					T.	.08	.61		.58	.33	T.					15	1.95	.34	.01	4.82	
Frostburg	do		.35	.42							.05	.58	.03	T.	.43	.04					.05	.15	.60	.10	.90	.02	.07					.06	.72	.22	T.	4.73	
Germantown	do		T.	.05							T.	.07	T.	T.	.08	.46						.41	T.	.85	T.							T.	1.40	.87	T.	4.13	
Great Falls <sup>2</sup>	do	T.	.15								T.	.02	T.	.02	.03	.43						.55	.95									.62	.95	.55	4.27		
Hancock <sup>2</sup>	do		.58	T.							.08	*	.43	.03	.27	.23					.08		.53	.68								1.01	.53	.04	4.49		
Huntingtown	do			.30							T.	.02	.01	T.	.13	.58						.50	.04	.52	T.							.83	.19	T.	3.12		
Keedysville	do		.12	.24							.08	.06	.02	.02	.36	.18					T.	.10	.49	.09	.60	T.					.02	1.48	.33	.06	4.25		
La Plata	do			.25							T.	T.	T.	T.	.40	.80						.55	T.	.60	T.							.80	.50	T.	3.90		
Laurel	do	T.	.10								T.	T.	.15	T.	.15	.41						.65	.08	1.20	T.						T.	1.38	.42	.02	4.41		
Luke <sup>2</sup>	do	T.	.48								.02	.21	.02	T.	.13	.55					.12	T.	.60	T.	.42							.80	.19	T.	3.34		
Maryland Line	do		T.	.08							T.	T.	.03	T.	.48	.35						.34	.09	.39	T.							.68	.54	.08	3.85		
Millington	do			.12							T.	T.	.03	T.	.48	.35						.34	.09	.39	T.							.68	.54	.08	3.85		
Oakland	Ohio.	.02	.48	.37							T.	.22	.37		.05	.65	.17				.12	1.00	.21	T.	.82	.30	.10				.08	*	.56	.06	5.58		
Ocean City <sup>3</sup>	Atlantic.		T.	.30							T.	T.	T.	T.	1.00	.10					.02	.76	.03	.83	T.						.38	.08	.04	3.64			
Oxford	do			.38							T.	.07	T.	T.	.29	.24						.24	T.	.65	T.							.48	.11	.10	2.56		
Perry Point	do	T.	T.	.10							T.	T.	.04	.08	.23	.30						.06	.90	.05	.09							.93	.37	.04	3.19		
Picardy	do		.20	.30							.20	.40	.10	T.	.60	.20					T.	*	.70	.60	T.							.10	.80	.40	T.	4.60	
Prettyboy Dam	do	T.	.08								T.	T.	T.	T.	.53							.64	T.	1.12	T.						*	*	.01	4.33			
Ridgely	do			.27							T.	.09	T.	T.	.23	.36						.48	.11	.52	T.							.66	.06	T.	2.82		
Rock Hall	do			.11							T.	T.	.05	T.	.40	.10						.42	T.	.65								.57	.07	T.	2.37		
Salisbury	do			.54							T.	T.	.02	T.	.44	.61						.28	.41	.43	T.							.82	.10	.05	3.70		
Sines <sup>1</sup>	Ohio.	.69	.30								.17	.46	.03	T.	.05	.81	T.				.18	.25	1.10	.82	.22	.13	.06				.68	.19	.37	.02	6.48		
Snow Hill <sup>3</sup>	Atlantic.		.01	.37							T.	.07	T.	.13	.32	.12						.06	.72	.16	.29	.02						.78	.20	.02	4.26		
Solomons	do			.62							T.	.17	T.	.02	.58	.32						.05	.85	T.	.81	T.						.46	.18	.02	4.08		
State Sanatorium	do		.17	.27							T.	*	*	.35	.30	.30						1.04	.05	.01	.94	T.			.01			T.	2.45	.55	T.	6.14	
Takoma Park, No. 1	do		T.	.15							T.	T.	.05	T.	.11	.42						.61	T.	1.29	T.							1.79	.35	.03	4.80		
Takoma Park, No. 2	do		T.	.15							T.	T.	.04	T.	.15	.41						.57	.03	1.29	T.							T.	1.72	.40	.02	4.78	
Tonoloway	do		.20	.35							.13	.34	.10	T.	.50							.60	T.	.60	T.								.76	.60	T.	4.18	
Towson <sup>2</sup>	do	T.		.12							T.	.06	.02	.03	.09	.55						.05	.84	1.47								.34	1.24	.14	4.95		
Trappe	do										.03	.09	T.	T.	.14	.43						.07	.65	T.	.92	T.						T.	2.35	.32	T.	5.23	
Unionville	do		.02	.16							.04	.25	.05	T.	*	.45					.08	.10	.70	.10	.02	.58	.06					.12	.90	.12	T.	4.09	
Western Port	do		.28	.30							T.	.04	.10	T.	T.	.59						.06		.51	.93								.82	1.60	T.	4.57	
Westminster <sup>2</sup> </																																					

Daily Temperatures for November 1945-Continued

Table with columns for Stations (Maryland) and days 1-31, plus a Mean column. Rows list various stations such as Aberdeen, Annapolis, Baltimore, etc., with their respective temperature readings for each day.

See page 42 for explanation of reference marks.

(WBO, Philadelphia Pa.-3-7-46-1,200)