

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
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CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

JULY 1952
Volume LVI No. 7



MARYLAND AND DELAWARE - JULY 1952

G. N. Brancato, Section Director - Baltimore, Md.

WEATHER SUMMARY

This was an unusually warm July with precipitation amounts averaging near normal but varying considerably over the two-state area. The average speed of wind movements, the number of days with thunderstorms, and the percentage of sunshine were near normal.

For Maryland, it was the third warmest July of record while, in Delaware, it was the eighth warmest. Delaware's extreme temperatures were at Georgetown where the mercury soared to 101° on the 23rd and fell to 43° on the 2nd. Mean temperatures in that State varied from 80.0° at Milford to 76.8° at Millsboro. In Maryland, highest temperatures ranged from 103° at Salisbury U.S.G.S. on the 23rd, and at Cumberland and Keedysville on the 28th, to 41° at Princess Anne on the 2nd. Mean temperatures varied from 82.3° at Crisfield to 70.5° at Sines Deep Creek. Practically all stations in Maryland and Delaware were above normal by more than two degrees, the exceptions being a few stations in counties adjacent to the Potomac River, areas adjacent to the central section of the Chesapeake Bay, and the Delaware Bay and River. Crisfield and Blackwater Refuge stations were above normal by more than four degrees.

Much the greater portion of Maryland and Delaware were deficient in precipitation amounts. Northern Delaware and northeastern and northern Maryland were above normal by more than one inch. A large amount of this excessive rain came from downpours on the 8-10th at a number of stations from Montgomery County of Maryland northeastward to New Castle County of Delaware. Wilmington Porter Reservoir had a 24-hour rain of 7.03 inches, one of the heaviest ever recorded in Delaware or Maryland. Monthly totals were more than one inch below normal in Garrett, Somerset, and portions of Allegany, Washington, Charles, St. Marys, Calvert, Dorchester, Wicomico and Worcester Counties. Delaware's monthly totals varied from 9.58 inches at Wilmington Porter Reservoir to 2.91 inches at Georgetown, while the range in Maryland was from 9.15 inches at Conowingo Dam to 0.56 inches at Frostburg.

Thunderstorms occurred with usual frequency, being reported by some station or stations on the 4th, 5th, 7-10th, 15-23rd, and 28-31st. Hail occurrences were relatively infrequent: at Friendsville on the 9th, the first day of the station's operation at a new location, and at Millsboro, Delaware, on the 5th.

With high barometer over the Section, the month's coolest weather, almost without exception, came on the 1-2nd when rural temperatures dipped to 45° to 50°. However, readings in the large urban areas and near the larger water surfaces ranged upward through the fifties. During the remainder of the month, temperatures were near or above normal. The hottest period was on the 22-23rd, although a few stations reported their warmest weather on the 28-29th. Maximum temperatures of the various stations generally were from 95° to 100° but several were a little higher and a few a little lower.

Scattered showers fell on the 4-5th associated with the passage of a weak cold front. The month's most general showers fell on the 8-10th as the result of the movement of a trough of low pressure and later a cold front across Maryland and Delaware. The showers during the rest of July fell in scattered areas, mainly on the 16-17th, 22-23rd, and the 27th. A few Delmar Peninsula stations reported no measurable rain after the 10th.

Although some stations had excessive amounts of rain for the month, the distribution through the month was poor. Most of the rain came during the first ten days. By the end of the month, soil moisture was deficient in practically all areas. Truck crops and early fruits failed to size and develop properly in the hot, dry weather. The same conditions caused a rapid deterioration of hay crops and pastures. - H.L.A.

SUPPLEMENTAL DATA

MARYLAND AND DELAWARE
JULY 1952

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	1:30 a EST	7:30 a EST	1:30 p EST	7:30 p EST	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over			Total
ABERDEEN PHILLIPS FIELD, MD.	-	-	-	-	-	-	88	76	52	68	-	-	-	-	-	-	-	-	-
ANNAPOLIS USN ACADEMY, MD.	S	25	8.1	-	-	-	82	76	63	73	-	-	-	-	-	-	-	-	-
BALTIMORE WB AP, MD.	W	12	8.3	46	NW	23	83	72	46	63	7	2	1	1	0	1	12	73	4.8
FREDERICK WB AP, MD.	-	-	-	-	-	-	-	-	54	-	4	0	3	1	1	0	9	-	-
WASHINGTON WB CITY, D. C.	SSW†	15†	7.8†	26	SE	8	78†	72†	50†	60†	7	3	3	2	1	0	16	78†	5.1†
WILMINGTON WB AP, DEL.	NW	10	6.7	-	-	-	86	78	51	68	4	4	2	0	1	1	12	-	5.1

†Airport Data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
MARYLAND						MARYLAND						MARYLAND								
1895	71.0	102	32	3.40	0.0	8	1920	72.8	98	37	4.65	0.0	9	1945	74.1	101	36	2.96	0.0	16
1896	75.7	99	40	5.39	0.0	11	1921	77.6	101	45	4.32	0.0	10	1946	74.0	99	38	3.71	0.0	9
1897	75.6	102	41	6.82	0.0	12	1922	74.7	99	43	5.83	0.0	12	1947	73.3	97	37	4.40	0.0	13
1898	77.4	109	32	3.53	0.0	9	1923	73.9	101	39	4.48	0.0	11	1948	75.5	99	44	3.57	0.0	11
1899	75.6	100	37	3.45	0.0	10	1924	72.9	100	42	2.36	0.0	7	1949	78.8	105	48	4.82	0.0	10
1900	77.2	106	35	3.25	0.0	8	1925	74.6	100	36	5.04	0.0	10	1950	73.6	97	41	4.45	T	
1901	78.7	106	40	5.41	0.0	11	1926	74.8	107	38	5.21	0.0	12	1951	76.0	99	40	3.33	T	
1902	75.7	104	43	3.76	0.0	10	1927	74.0	100	39	3.64	0.0	10	1952	77.9	103	41	3.69	T	
1903	75.1	100	41	5.63	0.0	11	1928	75.5	99	40	4.22	0.0	10							
1904	73.4	102	35	5.19	0.0	12	1929	74.2	101	34	1.76	0.0	7							
1905	75.2	101	42	7.63	0.0	14	1930	76.9	108	38	1.41	0.0	6							
1906	73.9	96	42	5.08	0.0	12	1931	77.5	103	44	4.70	0.0	12							
1907	74.6	99	39	3.98	0.0	9	1932	74.6	99	41	3.10	0.0	9							
1908	76.5	102	38	4.80	0.0	11	1933	74.0	102	37	5.34	0.0	8							
1909	73.1	98	32	1.57	0.0	5	1934	78.4	107	42	2.97	0.0	8							
1910	75.9	98	42	2.43	0.0	8	1935	76.9	101	42	4.23	0.0	10							
1911	76.9	106	35	2.87	0.0	6	1936	75.8	109	38	4.20	0.0	10							
1912	74.2	99	43	5.40	0.0	11	1937	74.8	100	39	3.96	0.0	10							
1913	75.6	102	38	2.86	0.0	9	1938	75.8	99	42	7.00	0.0	14							
1914	74.3	101	35	2.74	0.0	10	1939	73.8	97	39	3.59	0.0	11							
1915	74.2	103	36	3.31	0.0	12	1940	74.9	103	37	3.45	0.0	9							
1916	75.9	100	42	5.46	0.0	10	1941	75.3	104	42	5.18	0.0	12							
1917	74.8	102	45	6.41	0.0	14	1942	75.9	102	44	4.76	0.0	11							
1918	72.4	99	38	3.16	0.0	9	1943	75.4	98	35	2.42	0.0	10							
1919	75.5	105	41	7.38	0.0	12	1944	75.9	100	39	2.57	0.0	7							
DELAWARE						DELAWARE						DELAWARE								
1895	72.5	100	52	3.04	0.0	8	1920	74.3	96	48	4.89	0.0	9	1945	74.9	99	46	9.70	0.0	16
1896	77.2	99	53	4.71	0.0	11	1921	78.4	98	58	3.50	0.0	10	1946	73.8	96	49	6.11	0.0	9
1897	75.9	94	59	8.46	0.0	17	1922	75.3	96	56	6.39	0.0	10	1947	74.2	95	48	3.66	0.0	12
1898	77.5	99	51	4.09	0.0	8	1923	73.6	97	49	5.58	0.0	10	1948	76.0	95	49	3.77	0.0	8
1899	76.9	98	52	6.11	0.0	10	1924	73.7	94	52	3.31	0.0	6	1949	79.2	103	49	3.06	0.0	9
1900	78.7	100	54	2.69	0.0	7	1925	76.2	98	49	5.24	0.0	11	1950	74.6	94	53	4.41	0.0	0
1901	80.2	104	59	5.62	0.0	9	1926	75.9	102	51	10.47	0.0	14	1951	76.1	96	52	4.94	0.0	0
1902	76.4	104	52	3.22	0.0	9	1927	75.0	96	48	5.46	0.0	9	1952	78.3	101	43	5.33	T	
1903	75.3	100	50	4.20	0.0	8	1928	76.7	98	51	4.88	0.0	11							
1904	74.2	98	51	5.97	0.0	13	1929	75.6	102	46	1.28	0.0	5							
1905	75.9	101	56	5.25	0.0	12	1930	78.3	110	50	3.00	0.0	8							
1906	74.9	95	55	6.95	0.0	13	1931	78.9	100	55	3.12	0.0	11							
1907	75.9	96	53	3.66	0.0	7	1932	76.2	91	53	2.44	0.0	9							
1908	78.2	100	52	5.46	0.0	10	1933	75.0	99	50	5.50	0.0	7							
1909	73.9	98	49	2.12	0.0	6	1934	78.7	101	52	7.19	0.0	10							
1910	77.0	95	51	3.53	0.0	9	1935	77.1	97	53	4.33	0.0	9							
1911	78.0	102	49	2.87	0.0	7	1936	76.1	105	55	4.01	0.0	11							
1912	75.4	98	51	4.44	0.0	9	1937	76.0	97	53	2.64	0.0	8							
1913	77.2	98	50	2.22	0.0	7	1938	76.7	96	50	9.69	0.0	16							
1914	75.3	99	53	5.43	0.0	10	1939	75.0	94	50	2.22	0.0	8							
1915	76.4	100	55	3.11	0.0	10	1940	75.5	102	46	2.37	0.0	8							
1916	76.4	93	53	5.91	0.0	9	1941	75.7	100	56	5.86	0.0	14							
1917	75.8	100	56	6.07	0.0	13	1942	76.8	100	53	5.73	0.0	10							
1918	74.0	97	46	2.34	0.0	6	1943	76.0	95	47	2.88	0.0	10							
1919	75.7	105	47	10.90	0.0	12	1944	76.9	99	50	1.81	0.0	6							

See reference notes following Station Index.

CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE
JULY 1952

TABLE 2 - CONTINUED

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet, Hail			No. of Days		
										80° or Above	32° or Below	32° or Below	10° or Below					Total	Max. Depth on Ground	Date	.01 or More	.50 or More	1.00 or More
SAVAGE RIVER DAM	85.7	59.7	72.7		95	29	48	2+	11	0	0	0	1.44		.62	19	.0	0		8	1	0	
SILVER HILL OBSERVATORY	88.3	69.1	78.7		97	28	51	2	0	13	0	0	5.01		2.89	9	.0	0		7	3	2	
SINES DEEP CREEK	83.9	57.1	70.5	3.1	92	28	43	11	9	7	0	0	1.52	- 3.16	.39	19	.0	0		10	0	0	
SNOW HILL																							
SOLOMONS	89.4	72.4	80.9	2.2	99	23	61	2	0	17	0	0	3.33	- 1.29	1.94	17	.0	0		8	1	1	
TAKOMA PARK MISS AVE	88.1M	65.3M	76.7M	1.5	97	23	50	2	0	13	0	0	3.55	- 1.17	1.20	10	.0	0		11	2	2	
TONOLOWAY	90.5	62.3	76.4	2.9	100	28	47	2	2	19	0	0											
TOWSON	89.1	66.4	77.8	2.9	98	21	49	2	0	17	0	0	4.82	- 1.00	2.60	8	.0	0		8	2	2	
UNIONVILLE	88.1	62.9	75.5	1.8	96	21+	46	2	1	16	0	0	4.82	- .11	1.69	8	.0	0		7	4	2	
VIENNA	89.6	68.4	79.0		100	23	49	2	0	17	0	0	.83		.28	8	.0	0		6	0	0	
VIERS MILL																							
WALDORF POLICE BRKS	89.9	67.0	78.5		100	28	46	2	1	18	0	0	2.93		1.35	8	.0	0		6	3	1	
WATERLOO POLICE BRKS	89.8	65.8	77.8		100	23	50	2	1	19	0	0	2.52		1.57	8	.0	0		6	2	1	
WEST LANHAM HILLS	91.1	66.3	78.7		100	22+	49	2	0	20	0	0	2.52		.87	8	.0	0		10	1	0	
WESTERN PORT	91.1	62.9	77.0	3.5	101	28	50	2	0	19	0	0	1.16	- 2.55	.55	19	.0	0		7	1	0	
WESTMINSTER	88.0	66.4	77.2	2.2	96	21	50	2	0	15	0	0	3.78	- .24	1.35	8	.0	0		7	4	1	
WOODSTOCK COLLEGE	89.2				96	21+			18	0	0	0	3.23	- .70	1.59	8	.0	0		9	3	1	
DISTRICT OF COLUMBIA																							
DALECARLIA RESERVOIR DC	90.6M	68.6	79.6M		98	23+	53	2	0	18	0	0	4.26		1.70	8	.0	0		9	4	1	
NATIONAL ARBORETUM DC	91.4M	68.6M	80.0M		100	23+	50	2	0	19	0	0	4.66		2.23	10	.0	0		9	3	1	
U S SOLDIERS HOME D C	89.4	68.9	79.2		98	22+	54	2	0	17	0	0	3.46		1.55	10	.0	0		10	2	1	
WASHINGTON WB CITY DC	90.4	71.3	80.9	4.1	99	21+	56	2	0	19	0	0	3.63	- 1.08	1.53	9	.0	0		9	3	1	
MARYLAND AND D'C																							
DELAWARE																							
BRIDGEVILLE	89.7	67.5	78.6	2.7	98	23+	46	2	1	19	0	0	3.76	- 1.36	2.49	10	.0	0		4	2	1	
DELAWARE CITY REEDY PT	86.4	69.6M	78.0M	1.4	96	22			0	10	0	0	5.02	- 1.29	3.20	9	.0	0		8	2	1	
DOVER	89.7	69.3	79.5	2.9	97	23	51	2	0	19	0	0	4.53	- .19	2.30	10	.0	0		5	4	1	
GEORGETOWN	91.3	65.1	78.2		101	23	43	2	1	22	0	0	2.91		2.00	10	.0	0		4	2	1	
LEWES	87.6	67.6	77.6		99	23	47	2	2	13	0	0	4.01		2.96	10	.0	0		6	1	1	
MILFORD	91.5	68.5	80.0	3.2	100	23	48	2	0	23	0	0	4.26	- .25			.0	0		5			
MILLSBORO	87.9	65.7	76.8	.5	99	23	51	1	2	15	0	0	4.22	- .57			T	0		7			
NEWARK COLLEGE FARM	89.4	66.2	77.8	3.0	97	23	45	2	0	19	0	0	7.60	2.68	5.42	9	.0	0		8	2	2	
SMYRNA 3 NNW																							
WILMINGTON N CASTLE WB AP	89.5	67.3	78.4	2.5	98	23	50	2	0	17	0	0	7.40	2.91	5.18	9	.0	0		8	2	2	
WILMINGTON PORTER RESVR	87.4	68.2	77.8	1.8	95	23	56	1	0	13	0	0	9.58	4.79	7.03	9	.0	0		8	2	2	
STATE																							
SECTION																							
			78.3	2.2									5.33	.62			T						
			78.0	2.7									3.85	-.49			T						

See Reference Notes Following Station Index

DAILY PRECIPITATION

Table 3--Continued

MARYLAND AND DELAWARE
JULY 1952

Station	Total	Day of month																																
		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		
DELAWARE																																		
BRIDGEVILLE	3.76																																	
DELAWARE CITY REEDY PT	5.02																																	
DOVER	4.53																																	
GEORGETOWN	2.91																																	
LEWES	4.01																																	
HILFORD	4.26																																	
HILLSBORO	4.22																																	
NEWARK COLLEGE FARM	7.60																																	
SHYRNA 3 NNW																																		
WILMINGTON N CASTLE NB A	7.40																																	
WILMINGTON CITY HALL	7.17																																	
WILMINGTON PORTER RESVR	9.58																																	

DAILY TEMPERATURES

MARYLAND AND DELAWARE
JULY 1952

Table 5-Continued

Table with columns for Station, Day Of Month (1-31), and Average. Rows include various locations like EASTON POLICE BRKS, ELKTON, EMMITSBURG, etc., with corresponding temperature data.

See reference notes following Station Index.

EVAPORATION AND WIND

MARYLAND AND DELAWARE
JULY 1952

Table 6

Station		Day of month																															Total inches
		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	
BELTSVILLE	EVAP	.15	.28	.14	.36	.15	.28	.27	.09	.13	.20	.22	.22	.24	.25	.28	.25	.20	.22	.21	.25	.20	.31	.28	.25	.33	.09	.38	.21	.19	.34	.10	7.07
	WIND	33	46	33	34	16	25	32	36	43	39	28	11	8	11	22	17	15	11	9	18	14	16	14	16	40	24	34	10	20	22	17	734
SALISBURY U. S. G. S.	EVAP	*	.48	.30	.42	.31	.19	.19	.11	.15	.16	.29	.25	.26	.35	.35	.38	.35	.14	.27	.26	.31	.38	.33	.38	.47	*	.56	.27	.29	.32	.29	8.81
	WIND	*	126	54	76	62	21	21	21	64	54	46	34	25	35	48	90	41	21	30	48	39	53	15	44	80	*	69	41	36	42	40	1376
SAVAGE RIVER DAM	EVAP	.25	.38	.22	.27	.10	.18	.24	.15	.11	.25	.15	.24	.24	.24	.27	.14	.18	.28	.28	.22	.17	.25	.32	.36	.27	.27	.27	.23	.22	.12	.10	6.97
	WIND	107	139	55	31	24	21	47	84	50	58	52	25	24	36	19	17	25	23	21	33	35	37	32	48	58	41	28	37	29	39	28	1303

See reference notes following Station Index.

STATION INDEX

MARYLAND AND DELAWARE
JULY 1952

Table with 2 columns of station data. Each column includes Station Name, Index No., County, Drainage, Latitude, Longitude, Elevation, Observation time (Temp, Precip), Observer, and Refer to tables. The data is organized into Maryland and Delaware sections, listing various weather stations across the region.

1-CHESAPEAKE; 2-COASTAL; 3-MONONGAHELA; 4-OHIO; 5-PATAPSCO; 6-PATUXENT; 7-POTOMAC; 8-SUSQUEHANNA; 9-YOUGHEGENY

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state. Figures and letters following the station name, such as 12 25W, indicate distance in miles and direction from the post office.

Observation times given in the Station Index are in local standard time.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall and heating degree days for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F, precipitation and evaporation in inches, and wind movement in miles. Degree days are based on a daily average of 65°F. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Sleet and hail were included in snowfall averages in Table 1 beginning with July 1949.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5, 6 and snowfall in Table 7 are for the 24 hours ending at time of observation. See the Station Index for observation time.

Snow on ground in Table 7 is at observation time for all except Weather Bureau and CAA Stations. For these stations snow on ground values are at 7:30 A.M. E.S.T.

- No record in Tables 3, 5, 6, 7 and the Station Index is indicated by a dash. No record in Tables 2 and 5 is indicated by no entry.

* And also on a later date or date.

† Amount included in following measurement, time distribution unknown.

// Gage is equipped with a windshield.

R Adjusted to a full month.

E Water equivalent to snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.

M 1 to 9 days of record missing; see Table 5 for detailed daily record. Degree day data, if carried for this station, have been adjusted to represent the value for a full month.

D Daily values and monthly total from recording gage.

S Storage precipitation stations. Precipitation measurements, made at irregular intervals, will be published in the June issue of this publication.

T Trace, an amount too small to measure.

V Includes total for previous month.

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W.R.P.C., Chattanooga, Tenn. --- 9/16/52 --- 850