

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

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CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

JULY 1949

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MARYLAND AND DELAWARE - JULY 1949

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GENERAL SUMMARY

Unusually high temperatures and rather variable rainfall were the main features of the July weather in Delaware and Maryland. Humidity was a little higher than usual while the amount of sunshine and the average velocity of the wind were below normal. Thunderstorm activity was above normal in western and northern Maryland and below average from near Anne Arundel County eastward to the Delaware Bay and Atlantic Ocean.

The average temperature in Maryland was the highest of record, being 0.1 degree higher than the previous record of 78.7 degrees of July, 1901. For Delaware, July, 1901, one degree warmer than the 79.2 degrees of this year, was the only July with a higher average temperature. For the section as a whole, the average temperature was 78.8 degrees for both 1901 and this year. Except for a few stations in Montgomery and Frederick Counties with near normal temperatures, and a few stations about one degree above normal in western Allegany County, temperatures at the various stations averaged over two degrees above normal. Temperatures were four or more degrees above normal in Charles, Washington and Kent Counties of Maryland, in portions of Garrett, Allegany, Calvert, Baltimore, Queen Annes and Caroline Counties of Maryland, and Kent and Sussex Counties of Delaware, and in the District of Columbia. The warmest periods were near the 4-6th and from the 25th through the 30th with many high temperatures near or slightly above 100 degrees. There were no cool periods during the month but temperatures were near or slightly below normal from the 7th through the 12th.

Rainfall over the two-state area was extremely variable as indicated by the range in amounts from 12.68 inches at Emmitsburg, Maryland, with an incomplete record, to 0.70 inch at Smyrna, Delaware. Above normal rainfall was reported in the northern, western, west-central and in portions of southern and south-eastern Maryland, and in northern Delaware. It was particularly heavy in eastern and southern Washington County and in northern Frederick County where, from the 12th through the 19th, the following amounts fell: Emmitsburg, 12.27 inches; Keedysville, 10.49 inches; Edgemont, 10.45 inches; and Chewsville, 9.15 inches. Bentley Springs in northern Baltimore County had a 6-inch rain on the 12th. While most of the rain occurred between the 12th and the 19th, heavy showers were reported from some stations near the 7th and near the 30-31st. Rainfall was deficient by more than 2-1/2 inches in Kent and Sussex Counties of Delaware. Rainfall was light also in and near Wicomico, Talbot, Caroline, Anne Arundel and southern and eastern Queen Anne Counties.

During the month, the harvest of small grains proceeded with only a small amount remaining to be processed at the end of the month. Summer varieties of fruits were picked and later varieties sized well. Truck crops, pastures and tobacco progressed well where soil moisture was sufficient, but deteriorated considerably or failed to make normal progress in the area of light rainfall. The mid-month rains in western and north-central Maryland delayed hay making and there was some spoilage.---H.L.A.

TEMPERATURE

The monthly mean temperature for the section was 78.8 degrees, 3.5 degrees above normal; for Maryland and the District of Columbia, 78.8 degrees, 3.6 degrees above normal; and for Delaware, 79.2 degrees, 3.1 degrees above normal.

For Maryland, the monthly mean temperature varied from 83.0 degrees at Crisfield, to 69.6 degrees at Oakland. The highest temperature was 105 degrees on the 6th at Keedysville and on the 29th at Salisbury Police Barracks, and the lowest was 48 degrees on the 9th at Whalesville. The greatest local monthly temperature range was 52 degrees at Whalesville, ranging from 100 degrees on the 28th to 48 degrees on the 9th. The least local monthly range was 30 degrees at Annapolis, ranging from 94 degrees on the 25th to 64 degrees on the 1st.

For Delaware, the monthly mean temperature varied from 80.4 degrees at Dover to 77.7 degrees at Wilmington (Porter Reservoir). The highest temperature was 103 degrees on the 5th at Milford, and the lowest was 49 degrees on the 9th at Georgetown. The greatest local monthly temperature range was 50 degrees at Georgetown, having a high reading of 99 degrees on the 6th and a low of 49 degrees on the 9th. The least local monthly range was 38 degrees at Wilmington (Porter Reservoir) with a high reading of 97 degrees on the 5th and a low reading of 59 degrees on the 11th.

PRECIPITATION

The monthly average for the section was 4.63 inches, 0.27 inch above normal; for Maryland, 4.82 inches, 0.50 inch above normal; and for Delaware, 3.06 inches, 1.64 inches below normal. For Maryland, it was greatest at Emmitsburg with 12.68 inches even though the month's record there was incomplete, and least at Salisbury Airport with 1.82 inches. The greatest 24-hour amount was 6.00 inches on the 12th at Bentley Springs. For Delaware, the monthly precipitation was greatest at Wilmington New Castle Airport with 6.16 inches and least at Smyrna with 0.70 inch. The greatest 24-hour amount was 2.02 inches on the 5th at Wilmington New Castle Airport.

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U.S. Weather Bureau, Washington 25, D.C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

MARYLAND AND DELAWARE

JULY 1949

Station	Sea level pressure extremes— inches				Wind speed—m. p. h.				Relative humidity averages—percent				Sunshine	Degree days 65° base
	Highest	Date	Lowest	Date	Average	Maximum	Direction of maximum	Date of maximum	1:30 a. E. S. T.	7:30 a. E. S. T.	1:30 p. E. S. T.	7:30 a. E. S. T.	Percent of possible	
ABERDEEN PHILLIPS FIELD, MD.	30.25	9	29.68	30					92	86	71	82		
ANNAPOLIS NAVAL ACADEMY, MD.	30.30	9	29.77	30	7.8				86	86	69	75		
BALTIMORE WB CITY, MD.	30.30†	9	29.73†	30	8.4	28	N		84	81	57	70	61	
WASHINGTON WB CITY, D C	30.31	9	29.76†	30	8.1				82	79	57	66		
WILMINGTON WB AIRPORT, DEL.	30.32	9	29.75	30	8.7	28	N	30	90	83	59	74		0

† 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							1933	74.0	102	37	5.34	0.0	8	1912	75.4	98	51	4.44	0.0	9
1895	71.0	102	32	3.40	0.0	8	1934	78.4	107	42	2.97	0.0	8	1913	77.2	98	50	2.22	0.0	7
1896	75.7	99	40	5.39	0.0	11	1935	76.9	101	42	4.23	0.0	10	1914	75.3	99	53	5.43	0.0	10
1897	75.6	102	41	6.82	0.0	12	1936	75.8	109	38	4.20	0.0	10	1915	76.4	100	55	3.11	0.0	10
1898	77.4	109	32	3.53	0.0	9	1937	74.8	100	39	3.96	0.0	10	1916	76.4	93	53	5.91	0.0	9
1899	75.6	100	37	3.45	0.0	10	1938	75.8	99	42	7.00	0.0	14	1917	75.8	100	56	6.07	0.0	13
1900	77.2	106	35	3.25	0.0	8	1939	73.8	97	39	3.59	0.0	11	1918	74.0	97	46	2.34	0.0	6
1901	78.7	106	40	5.41	0.0	11	1940	74.9	103	37	3.45	0.0†	9	1919	75.7	105	47	10.90	0.0	12
1902	75.7	104	43	3.76	0.0	10	1941	75.3	104	42	5.18	0.0	12	1920	74.3	96	48	4.89	0.0	9
1903	75.1	100	41	5.63	0.0	11	1942	75.9	102	44	4.76	0.0	11	1921	78.4	98	58	3.50	0.0	10
1904	73.4	102	35	5.19	0.0	12	1943	75.4	98	35	2.42	0.0	10	1922	75.3	96	56	6.39	0.0	10
1905	75.2	101	42	7.63	0.0	14	1944	75.9	100	39	2.57	0.0	7	1923	73.6	97	49	5.58	0.0	10
1906	73.9	96	42	5.08	0.0	12	1945	74.1	101	36	9.96	0.0	16	1924	73.7	94	52	3.31	0.0	6
1907	74.6	99	39	3.98	0.0	9	1946	74.0	99	36	3.71	0.0	9	1925	76.2	98	49	5.24	0.0	11
1908	76.5	102	38	4.80	0.0	11	1947	73.3	87	37	4.40	0.0	13	1926	75.9	102	51	10.47	0.0	14
1909	73.1	98	32	1.57	0.0	5	1948	75.5	99	44	3.57	0.0	11	1927	75.0	96	48	5.46	0.0	9
1910	75.9	98	42	2.43	0.0	8	1949	78.8	105	48	4.82	0.0	10	1928	76.7	98	51	4.88	0.0	11
1911	76.9	106	35	2.67	0.0	6	Period	75.2	109	32	4.32	0.0	1929	75.6	102	46	1.28	0.0	5	
1912	74.2	99	43	5.40	0.0	11	1895	72.5	100	52	3.04	0.0	8	1930	78.3	110	50	3.00	0.0	8
1913	75.6	102	38	2.86	0.0	9	1896	77.2	99	53	4.71	0.0	11	1931	78.9	100	55	3.12	0.0	11
1914	74.3	101	35	2.74	0.0	10	1897	75.9	94	59	8.46	0.0	17	1932	76.2	91	53	2.44	0.0	9
1915	74.2	103	36	3.31	0.0	12	1898	77.5	99	51	4.09	0.0	8	1933	75.0	99	50	5.50	0.0	7
1916	75.9	100	42	5.46	0.0	10	1899	76.9	98	52	6.11	0.0	10	1934	78.7	101	52	7.19	0.0	10
1917	74.8	102	45	6.41	0.0	14	1900	78.7	100	54	2.69	0.0	7	1935	77.1	97	53	4.33	0.0	9
1918	72.4	99	38	3.16	0.0	9	1901	80.2	104	59	5.62	0.0	9	1936	76.1	105	55	4.01	0.0	11
1919	75.5	105	41	7.38	0.0	12	1902	76.4	104	52	3.22	0.0	8	1937	76.0	97	53	2.64	0.0	8
1920	72.8	98	37	4.65	0.0	9	1903	75.3	100	50	4.20	0.0	8	1938	76.7	96	50	9.69	0.0	16
1921	77.6	101	45	4.32	0.0	10	1904	74.2	98	51	5.97	0.0	13	1939	75.0	94	50	2.22	0.0	8
1922	74.7	99	43	5.83	0.0	12	1905	75.9	101	56	5.25	0.0	12	1940	75.5	102	46	2.37	0.0	8
1923	73.9	101	39	4.48	0.0	11	1906	74.9	95	55	6.95	0.0	13	1941	75.7	100	56	5.86	0.0	14
1924	72.9	100	42	2.36	0.0	7	1907	75.9	96	53	3.66	0.0	7	1942	76.8	100	53	5.73	0.0	10
1925	74.6	100	36	5.04	0.0	10	1908	78.2	100	52	5.46	0.0	10	1943	76.0	95	47	2.88	0.0	10
1926	74.8	107	38	5.21	0.0	12	1909	73.9	98	49	2.12	0.0	6	1944	76.9	99	50	1.81	0.0	6
1927	74.0	100	39	3.64	0.0	10	1910	77.0	95	51	3.53	0.0	9	1945	74.9	99	46	9.70	0.0	16
1928	75.5	99	40	4.22	0.0	10	1911	78.0	102	49	2.87	0.0	7	1946	73.8	96	49	6.11	0.0	9
1929	74.2	101	34	1.76	0.0	7	1912	75.4	98	35	2.42	0.0	10	1947	74.2	95	48	3.66	0.0	12
1930	76.9	108	38	1.41	0.0	6	1913	75.3	98	36	3.71	0.0	9	1948	76.0	95	49	3.77	0.0	8
1931	77.5	103	44	4.70	0.0	12	1914	74.3	96	48	4.89	0.0	9	1949	79.2	103	49	3.06	0.0	9
1932	74.6	99	41	3.10	0.0	9	Period	76.1	110	46	4.70	0.0	1912	75.4	98	51	4.44	0.0	9	

CLIMATOLOGICAL DATA

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
MARYLAND																		
ABERDEEN PHILLIPS FIELD	79.4	3.8	98	28+	58	9	13	0	3.74	-.64	1.86	12	0	0	0	10	3	1
ANNAPOLIS U S NAVAL ACADEMY	79.6	2.2	94	25+	64	1	9	0	2.93	-1.49	1.19	30	0	0	10	2	2	
BALTIMORE WB AIRPORT	81.2	4.5	97	4+	62	1	16	0	2.85	-1.79	1.44	12	0	0	10	4	1	
BALTIMORE WB CITY	81.5	4.3	100	5	64	1	16	0	3.24	-1.40	0	0	0	0	9	0	0	
BALTIMORE HAMILTON	79.4		99	5.	59	9	15	0	5.43		1.35	13	0	0	9	5	3	
BATTERY PARK	78.9		97	5	59	24	15	0	4.17		1.24	12	0	0	12	6	1	
BELTSVILLE	78.1	3.3	96	6	56	9	12	0	3.68	-.61	1.88	12	0	0	11	5	1	
BELTSVILLE PLT IND STA NO 1	78.1		97	7	58	9+	14	0	3.47		1.08	12	0	0	10	5	0	
BELTSVILLE PLT IND STA NO 2	77.9		97	6	56	24	14	0	3.18		.83	12	0	0	10	5	0	
BELTSVILLE PLT IND STA NO 3	78.6		97	6+	59	9	14	0	3.51		.94	12	0	0	11	5	0	
BELTSVILLE PLT IND STA NO 4	79.1		97	6	60	1+	15	0	3.52		.93	12	0	0	11	5	0	
BELTSVILLE PLT IND STA NO 5	77.8		98	6	56	24	14	0	3.00		1.02	12	0	0	9	4	1	
BELTSVILLE PLT IND STA NO 6	78.4		98	6+	59	9	15	0	3.07		.99	12	0	0	9	4	0	
BENSON POLICE BARRACKS	77.1		99	5	53	1	14	0	6.50		1.63	13	0	0	10	7	3	
BENTLEY SPRINGS	76.6		97	5	54	9	12	0	9.29		6.00	12	0	0	11	8	1	
BLACKWATER	78.6	3.3	94	29	56	9	9	0	0		2.00	12	0	0	11	0	1	
BRIGHTON DAM	77.6		101	28	54	2	17	0	5.38		1.06	31	0	0	9	7	1	
BROOKSIDE MANOR	79.9M		99	6	58	14	14	0	3.53		1.32	12	0	0	10	4	1	
CAMBRIDGE	80.7	3.1	99	28	54	9	14	0	3.72	-.80	1.20	12	0	0	11	5	1	
CHARLOTTE HALL	79.4	3.0	96	30	59	9	13	0	5.28	.11	2.01	12	0	0	10	5	2	
CHELTENHAM	78.9	3.1	97	30+	58	11	13	0	3.37	-1.16	1.11	13	0	0	10	4	1	
CHESTERTOWN	80.6	4.4	101	27	58	1+	19	0	3.42	-.81	1.68	30	0	0	8	3	2	
CHEWSVILLE BRIDGEPORT	78.0	4.1	100	5+	57	24	13	0	10.28	6.60	3.33	12	0	0	13	6	3	
CLEAR SPRING	78.8	4.6	101	5	59	25	15	0	7.46	3.39	3.33	12	0	0	8	7	2	
COLEMAN	81.3M	4.7	102	5+	59	19	0	0	3.52	-.91	.82	13	0	0	9	5	0	
COLLEGE PARK UNIV OF MD	78.5M	2.8	97	5+			18	0	0		1.02	12	0	0	10	0	1	
CONOWINGO DAM	77.6	2.8	96	5	57	1+	12	0	7.80	2.59	3.27	12	0	0	13	7	2	
CONOWINGO POLICE BARRACKS	76.4		99	5	50	9	14	0	7.87		1.85	7	0	0	14	6	3	
CRISFIELD	83.0	5.0	97	30	60	9	17	0	4.74	-.37	2.26	16	0	0	7	5	1	
CUMBERLAND	76.2	1.7	95	5+	58	11+	13	0	4.87	1.62	1.82	12	0	0	12	6	2	
CUMBERLAND POLICE BARRACKS	73.3		94	29	52	11	9	0	4.78		1.50	12	0	0	11	4	2	
DISTRICT HEIGHTS	79.9		98	6	59	1	15	0	3.21		1.33	12	0	0	10	4	1	
DUNDALK	80.7		98	5+	60	1	16	0	2.79		.90	12	0	0	9	4	0	
EASTON POLICE BARRACKS	78.4	2.1	96	6+	55	9	14	0	2.80	-1.76	.99	12	0	0	6	6	0	
ELKTON	79.7	3.8	102	5	57	9	18	0	4.94	.44	1.20	13	0	0	9	5	2	
EMMITSBURG	75.4M	0.2	96	6	61	24+	14	0	0		4.35	12	0	0	11	0	0	
FALLSTON	77.1	2.8	96	5	58	1+	12	0	6.86	2.41	1.60	30	0	0	9	7	3	
FORT GEORGE G MEADE	78.9	3.6	98	22+	54	9	20	0	2.98	-1.41	1.32	12	0	0	7	4	1	
FREDERICK POLICE BARRACKS	78.8		100	6	58	24	18	0	5.22		1.80	12	0	0	12	7	1	
FREDERICK WB AIRPORT	80.1		101	6	60	24	16	0	8.18		1.80	31	0	0	14	7	4	
FRIENDSVILLE			90	4+			2	0	5.44	.63	1.78	12	0	0	9	6	1	
FROSTBERG	72.7	1.1	91	4+	54	11+	3	0	4.45	-.69	1.76	12	0	0	16	5	1	
GERMANTOWN	78.0	-0.1	97	5	61	1+	12	0	7.04	3.41	2.91	12	0	0	11	6	2	
GLENN DALE BELL STATION	79.2	3.7	99	5	55	1+	18	0	2.76	-1.57	1.00	12	0	0	8	3	1	
GREENVILLE	80.7		98	21+	60	1	17	0	3.44		1.33	31	0	0	6	4	1	
GREAT FALLS	78.7	2.9	97	29	61	1+	13	0	7.28	3.16	2.02	15	0	0	10	6	2	
GREENBELT	78.7		98	29	56	9	15	0	3.20		1.22	13	0	0	15	3	1	
GROSVENOR LANE	77.7		96	5	58	2	13	0	4.42		.98	12+	0	0	13	5	0	
HAGERSTOWN	77.4		100	5	60	24+	16	0	7.81		3.40	12	0	0	10	7	2	
HANCOCK FRUIT LABORATORY	75.6	1.1	98	6	54	24	13	0	6.82	3.33	1.73	17	0	0	14	7	3	
HUNTINGTOWN	80.0	4.7	98	28	60	1	12	0	4.32	-1.06	1.44	15	0	0	9	4	1	
KEEDYSVILLE	79.4	3.8	105	6	57	24	18	0	11.66	7.88	4.26	18	0	0	12	8	4	
LA PLATA	81.0	4.7	100	6	60	1	17	0	5.22	.57	1.50	12	0	0	10	6	1	
LAUREL WILLIS FILTR PLANT	79.1		98	25	61	1+	16	0	4.40		1.10	12	0	0	14	5	1	
LEONARDTOWN	79.8		97	28	55	9	15	0	7.94		1.99	12	0	0	13	6	3	
MILLINGTON	80.5	4.5	102	5	55	9	19	0	2.23	-2.34	.72	31	0	0	7	4	0	
OAKLAND	89.6M	2.4	100	5	51	11	1	0	5.50	.85	2.73	12	0	0	8	6	2	
OCEAN CITY	80.3		100	24	68	8	11	0	2.01		.70	12	0	0	8	4	0	
OWINGS FERRY LANDING	80.2	4.1	100	6+	59	1+	15	0	3.96	-.91	1.23	12	0	0	9	3	2	
OXFORD	79.9	2.3	94	28+	61	9	9	0	3.14	-2.40	.87	7	0	0	10	5	0	
PICARDY	76.1	2.1	94	5+	57	24	12	0	5.94	2.50	2.53	17	0	0	10	4	1	
PIKESVILLE POLICE BARRACKS	78.8		95	5	59	1	16	0	4.93		1.40	12	0	0	9	5	2	
POCOMOKE CITY	80.7	2.8	100	5	58	9	15	0	5.91	1.81	1.55	13	0	0	7	5	2	
PRESTON	80.2		99	29	57	9	15	0	3.53		1.19	12	0	0	8	5	1	
PRETTYBOY DAM	77.8M	3.5	97	5+			12	0	7.42		4.90	12	0	0	7	3	2	
PRINCESS ANNE	79.9	2.7	96	28	57	10	15	0	5.27	.58	1.49	16	0	0	8	5	3	
RANDALLSTOWN POLICE BARRACKS	77.5		97	5	56	1	13	0	4.39		1.45	12	0	0	9	5	2	
RIDGELY	81.5	5.1	101	5	61	8	19	0	2.77	-1.81	1.32	12	0	0	8	3	1	
RIVERDALE	79.8		99	5	57	1	18	0	3.90		1.54	12	0	0	11	4	1	
ROCK HALL	80.1	3.1	97	6+	55	9	18	0	3.89	-.88	1.43	31	0	0	9	4	2	
ROCKVILLE	78.4		95	5+	58	11	13	0	6.38		1.20	12	0	0	13	7	3	
ROYAL OAK	81.6		100	28	58	9	20	0	2.48		.61	12	0	0	9	5	0	
SALISBURY	80.9	4.2	100	29	53	9	16	0	2.04	-2.17	1.68	31	0	0	8	3	0	
SALISBURY POLICE BARRACKS	80.9		105	29	56	9	17	0	1.84		1.45	7	0	0	10	4	0	
SALISBURY MUNICIPAL AIRPORT	79.1		100	28	53	9	14	0	1.82		.50	13	0	0	10	3	0	
SINES DEEP CREEK	71.5M	4.2	93	6	53	2	4	0	9.42	4.88	3.55	13	0	0	20	8	3	
SOLOMONS	81.4	2.7	97	28	65	1	15	0	7.36	2.78	2.77	12	0	0	10	5	3	
TAKOMA PARK MISS AVE	79.0	3.9	96	5	60	1	14	0	3.94	-.98	1.33	17	0	0	13	4	2	
TONOLOWAY	78.0	4.5																

CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

JULY 1949

Table 2-Continued

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
WESTERN PORT	75.9	2.3	96	29	50	9	15	0	6.38	2.68	4.05	12	0	0		16	5	1
WESTMINSTER	78.1	3.1	99	6	58	24	14	0	8.72	4.71	4.00	12	0	0		15	5	2
WHALEYSVILLE	79.5		100	28	48	9	15	0	2.24		.44	31	0	0		9	5	0
WHITE HALL	72.6		94	4	52	9	4	0	7.98		2.97	12	0	0		14	6	3
WOODSTOCK COLLEGE	78.6	3.5	99	5	56	1	17	0	3.73	-.22	1.95	12	0	0		11	3	1
DISTRICT OF COLUMBIA																		
BRIGHTWOOD	81.3M		98	7	66	9	15	0										
DALECARLIA RESERVOIR	80.4M		98	6+	60	1	17	0	4.37		1.62	12	0	0		10	5	1
NATIONAL ARBORETUM	80.9		99	5+	58	1	17	0	3.08		1.21	12	0	0		10	4	0
U S SOLDIERS HOME	79.3		97	6+	59	1	13	0	2.35		.76	13	0	0		9	4	0
WASHINGTON WB CITY	81.5	4.7	100	5	64	1	17	0	4.57	-.14	1.74	12	0	0		11	3	2
MARYLAND AND DIST OF COLUMBIA	78.8	3.6							4.82	.50								
DELAWARE																		
BRIDGEVILLE	78.5	2.6	99	28+	53	9	15	0	3.40	-1.69	1.07	12	0	0		9	5	1
DELAWARE CITY REEDY POINT	78.9	2.3	99	5	60	9	14	0	3.87	.11	1.22	13	0	0		9	4	1
DOVER	80.4	3.8	101	29	56	9	17	0	2.00	-2.72	1.35	31	0	0		10	1	1
GEORGETOWN	79.1		99	6+	49	9	16	0	3.08		1.17	12	0	0		11	4	1
LEWES	78.9		98	5	52	9	12	0	1.48		.46	12	0	0		11	1	0
MILFORD	81.3	4.5	103	5	55	9	19	0	1.44	-3.06	.63	12	0	0		8	3	0
MILLSBORO					53	9	9	0	1.49	-3.30	.56	7	0	0		7	2	0
NEWARK COLLEGE FARM	78.6M	3.8	100	5	55	9	15	0	4.80	.03	1.11	13	0	0		8	5	1
SMYRNA	80.1		101	5	57	9	16	0	4.70		.28	12	0	0		4	1	0
WILMINGTON WB NEW CASTLE	78.7		100	5	59	1	14	0	6.16		2.02	5	0	0		10	6	2
WILMINGTON PORTER RESERVOIR	77.7	1.7	97	5	59	1+	12	0	5.29	.42	1.50	12	0	0		11	4	3
DELAWARE SECTION																		
DELAWARE	79.2	3.1							3.06	-1.64								
SECTION	78.8	3.5							4.63	.27								

DAILY PRECIPITATION

MARYLAND AND DELAWARE

JULY 1949

Table 3

Station	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		
MARYLAND																																	
ABERDEEN PHILLIPS FIELD Z	.13	.01				.15	.25			.22	1.86	.06	T		.10						.03	T									.93	T	3.74
ANNAPOLIS U S N ACAD Z						.03	T			.08	1.15	.04	.04	.01	.04			T			.17										1.18	T	2.93
BALTIMORE WB AIRPORT Z						.01				.01	1.44	.08	.01		.11			T			.33									.28	.53	T	3.85
BALTIMORE WB CITY Z						.03	T			.01	.21	.07			.53			T			.05										.50	T	3.34
BALTIMORE HAMILTON							1.04			.22	1.25	1.35			.73								.07							.24		.38	5.43
BATTERY PARK						.12	.09			.05	1.24	.42	.01	.55	.75	.08	T		T	.29						.08	T				.49	4.17	
BELTSVILLE						.12	.07			.08	.88	.78	.01	.30	.31	.21					.07						T				.85	3.68	
BELTSVILLE PLT IND STA 1						.14	.03			.01	1.08	.88	T	.19	T	.35	.30				T	.10					T				.39	3.47	
BELTSVILLE PLT IND STA 2						.13	.02			.01	.83	.72	T	.17	T	.37	.41					T	.12					T			.40	3.18	
BELTSVILLE PLT IND STA 3						.13	.02			.01	.94	.83	.01	.22	T	.41	.44					T	.13								.37	3.51	
BELTSVILLE PLT IND STA 4						.14	.02			.01	.93	.88	.01	.21	T	.43	.49					T	.12								.28	3.52	
BELTSVILLE PLT IND STA 5Z						.15	.02			.07	1.02	.72		.16	T	.41	.31														.14	3.00	
BELTSVILLE PLT IND STA 6						.15	.02			.07	.99	.71		.18	T	.39	.39														.17	3.07	
BEHNSON POLICE BARRACKS		.18				.63				.28	1.28	1.63		.02	.74						.26		.03							1.45	6.50		
BENTLEY SPRINGS						.64				.25	6.00	.50		.06	.33	.42	.61				.03								.02	.43	9.29		
BETHESDA	R				.07	.07					1.60	.04		.15	.61	.04	.36													.65			
BLACKWATER		.05									2.00	.71	.05	.15	.48	.70	.15				.80	.26								.49		5.38	
BRIGHTON DAM						.14	T			T	.90	.88	T	.27	.07	.04														.79		1.06	
BROADDALE						.12	.09			.02	1.67	.24	.62	.02	.74	.04					.01	.44								.10	.36	4.47	
BROOKSIDE MANOR	T					.15	T			.03	1.32	.65	T	.34	.02	.61	.02				T	.24								.15	3.53		
BURNT HILLS RESERVOIR						.18	.05			.03	1.04	.64		.28	.06	.67	.49						.27								.36	4.26	
CAMBRIDGE						.48				T	1.20	.49	.02	.36	.12	.70	.04														.79	3.75	
CHARLOTTE HALL		.04	.09			.16					2.01	.65		T	.10	.11				.12	.01	.02	.70	T						1.12	5.28		
CHELTENHAM		.05				.05	T				.78	1.11	.29	.08	T	.14	.05														.72	3.37	
CHESTERTOWN	T	.13				T	T			.08	1.06	.06	.04	T	.02					T	T	.37							T	1.68	11	3.42	
CHEWSVILLE BRIDGEPORT						.08	.01		.16		3.33	.08	.47	2.17	.01	2.39	.70						.04								.74	10.28	
CLEAR SPRING						.65			.26		3.33	.56			.92	1.24	T	T	T		T									.12	7.46		
COCKEYSVILLE	R					.07	.06			.22	4.78	.18		.10	.75	.75						.25		.05						.50	6.97		
COLEMAN		.45				.15				.24	.68	.82			.06							.73								.08	.31	3.52	
COLLEGE PARK UNIV OF MD		.04				.16	.03			.02	1.02	.86		.18	.59					.12													
CONOWINGO DAM		.01			.55	1.45	.42	.02		.10	3.27	.35		.07	.63	.09							T							.82	.02	7.80	
CONOWINGO POLICE BARRACKS		.15	.02			.70	1.82	.02		.13	1.10	1.82		.14	.15	.93				.09											.85	7.87	
CRISFIELD						.58	.97	.90		.24	2.26	.95		.24	.26	.85															.34	4.47	
CUMBERLAND						.15	.38	.13		.13	1.82	.36	T		1.02	.43						.01		.08						.15	.06	4.87	
CUMBERLAND POLICE BRKS		.16				.14	.15			.05	1.50	.85			1.10	.17						.07								.50	.47	4.78	
DALECARLIA RESERVOIR DC										.02	1.62	.50	.11	.66	.70	.04							.23								.49	4.37	
DISTRICT HEIGHTS		.05				.08	T			T	1.33	.47	T	.14	.01	.25	.44				T	.62								.12	3.21		
DUNDALK						.01				.02	.90	.61		.02	T	.15						.02								.42	T	.64	2.79
EASTON POLICE BARRACKS						.40				T	.25	.98	.37		.27	T														.52	2.80		
EDGEWOOD						.12				.14	.56	5.11		.42	.52	.70	2.10	1.04					.12	.10							.74	11.57	
ELKTON		.10				.55	.93			.13	.75	1.20		.12								.18								1.00		4.94	
EMMITSBURG						.31				.05	4.35	2.51	T	.78	1.80	1.56	1.27	.05															
FALLSTON		.17				.56				.35	1.47	1.53	.05		.83							.32								1.60		5.86	
FORT GEORGE G MEADE						T				T	1.32	.92	.28		.21							.18								.35	2.86		
FREDERICK POLICE BARRACKS						.20				.09	1.80	.11		.30	.38	.25	.54	.09				.55								T	.82	5.22	
FREDERICK WB AIRPORT		.07				.18	T			.11	1.21	1.75	.24	.28	1.63	.20	.19	.25				.26								T	1.80	8.18	
FREDERICK 3 E						.15				.38	6.02	2.32		T	.85	.53	.15	.39						.18						1.71	7.49		
FRIENDSVILLE						.78				.10	1.28	.39			.23	.95						.21								.40	5.44		
FROSTBURG		T				.33	.04	.38	.01	.10	1.76	.08		.01	.67	.18	.01				.03		.07						.73	.01	.04	4.45	
GERMANTOWN											2.91	.61	.41	.23	.55	.23	.11				.13								.39	1.45	7.04		
GLEN ECHO	R					.18				T	1.81		.58	.11	.78					.33										.70	4.50		
GLENN DALE BELL STATION	T					.09	.01			T	1.00	.57	T	.15	.20						T	.72	.02									2.76	
GRANTSVILLE	R					.51	.05	.03	.03	.20	1.74	.04	.17	.07	.02	.37	.20					.17	.04			.23	.04			.08		4.17	
GRASONVILLE		.13				T					1.50	.35	T	.95	T							.04	.69							1.33	3.44		
GREAT FALLS						.10	.02				1.80	.85	.06	2.02																T	.80		7.28
GREENBELT		.02	.02			.15	.06			.08	.56	1.22	.03	.20	.03	.21	.12					.06								.40	3.20		
GROSVENOR LANE		.01				.02	.02			.03	.98	.56		.98	.01	.88	.18					.24								.36	4.42		
HAGERSTOWN						.16				.25	3.40	.56	.36	.12	.07	1.52	1.62					.45			.15					.36	6.82		
HANCOCK FRUIT LABORATORY		.01				.40				.13	.23	.84		.71	1.72	1.27				.12										T	6.82		
HUNTINGTOWN		.15				.13					.79	.62		1.44	.05	.16						.08	.31	.02						.90	4.32		
KERYSVILLE	Z					.25				.05	2.73	.40	.59	1.08	1.18	4.26					.10								.81	.08	11.66		
LA PLATA	Z	.03				.57					1.50		.10	.10								.04								.37	5.22		
LAUREL WILLIS FILTR PLT						.12	.12			.02	1.10	.69	.04	.50	.95	.07						.16	.09							.06	4.60		
LEONARDTOWN	Z	.08				.08				T	1.99	1.53		.18	.99	.30				.12		.54	.02							1.97	7.94		
LUKE	Z		.02			1.02	.01			.07	T	3.61	.02	.01	.15	.27	.07					.01	.18						.01	.02	.20	5.85	
MILLINGTON						.11				.06	.61</																						

HOURLY PRECIPITATION

MARYLAND AND DELAWARE

JULY 1949

Table 4

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
-1st-																										
MARYLAND																										
ABERDEEN PHILLIPS FIELD																										-
DELAWARE																										
WILMINGTON WB NEW CASTLE 6															*	*	*	*	*							.03
-2d-																										
MARYLAND																										
ABERDEEN PHILLIPS FIELD LUKE								.04		.02		.01														.07
-5th-																										
MARYLAND																										
BETHESDA																										.07
DELAWARE																										
WILMINGTON WB NEW CASTLE 6															*	*	*	*	*	1.92	*	*	*	*	.07	
-6th-																										
MARYLAND																										
ABERDEEN PHILLIPS FIELD																					.13	.02	.01			.16
ANNAPOLIS U S NAVAL ACADEMY																										.03
BALTIMORE WB AIRPORT 6																						*	*	*	*	.03
BALTIMORE WB CITY																						.03				.19
BELTSVILLE																					.06	.03	.11	.02	.11	
BELTSVILLE PLT IND STA NO 5																						.04	.07		.07	
BETHESDA																						.04	.03		.07	
COCKEYSVILLE																						.04	.02		.19	
COCKEYSVILLE																							.15	.04	.51	
GLEN ECHO																									.92	
GRANTSVILLE																	.37				.14	.02	.31	.02	1.40	
LUKE																					.10	.47	.02	.02	.26	
SINES DEEP CREEK																					.51	.33	.54	.02	.16	
UNIONVILLE																						.25	.01	.06	.07	
WASHINGTON WB CITY DC																							.07	.02	.01	.16
DELAWARE																										
WILMINGTON WB NEW CASTLE 6	*	.40																							.12	
-7th-																										
MARYLAND																										
ABERDEEN PHILLIPS FIELD													.07	.06												.23
BALTIMORE WB AIRPORT 6	*	.01	*	*	*	*		.01																		.03
BELTSVILLE																										.14
BELTSVILLE PLT IND STA NO 5								.01	.02													.13	.01		.03	
COCKEYSVILLE	.01	.01						.01	.02	.02	.02														.06	
GRANTSVILLE								.01	.01	.01	.01														.05	
GRANTSVILLE																									.61	
SALISBURY MUNICIPAL AIRPORT 6	.56	.01		.01																					.06	
SHARPTOWN																									.09	
SINES DEEP CREEK	.02	.01	.01		.01	.01	.02						.03	.01		.01		.01							.01	
UNIONVILLE																								.01	.01	
WASHINGTON WB CITY DC																									.01	
DELAWARE																										
WILMINGTON WB NEW CASTLE 6	*	.50													*	*	*	*	*						.02	
-8th-																										
MARYLAND																										
GRANTSVILLE													.01	.02												.03
SINES DEEP CREEK								.02	.02																	.04
-9th-																										
MARYLAND																										
GRANTSVILLE						.01	.01	.01																		.03
-10th-																										
MARYLAND																										
ABERDEEN PHILLIPS FIELD												.11	.02	.05												.18
ANNAPOLIS U S NAVAL ACADEMY															*	*	*	*	*							.08
BALTIMORE WB AIRPORT 6																										.01
BALTIMORE WB CITY																										.01
BELTSVILLE													.04	.01												.05
BELTSVILLE PLT IND STA NO 5																										.04
COCKEYSVILLE																										.22
GRANTSVILLE							.14	.02	.01	.16	.01	.01	.01	.02	.01	.01									.20	
LUKE																									.08	
SINES DEEP CREEK								.03	.12	.01	.06	.01	.01	.01	.01	.01									.18	
UNIONVILLE								.05																	.06	
DELAWARE																										
WILMINGTON WB NEW CASTLE 6															*	*	*	*	*						.08	
-11th-																										
MARYLAND																										
GRANTSVILLE							.01	.01	.04	.01															.07	
SALISBURY MUNICIPAL AIRPORT 6							*	*	.06	*															.07	
SHARPTOWN							.25	.20	.10																.61	
-12th-																										
MARYLAND																										
ABERDEEN PHILLIPS FIELD				.01		.01	.01	.01				.15	.16	.07	.02	.25	.11	.01							1.97	
ANNAPOLIS U S NAVAL ACADEMY								.20								.41									1.15	

See reference notes following Station Index.

HOURLY PRECIPITATION

MARYLAND AND DELAWARE

JULY 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
BALTIMORE WB AIRPORT 6			*	*	*	*	.02	.04	*	*	*	*	.82	*	*	*	*	.06	*	*	*	*	*	*	
BALTIMORE WB CITY																									
BELTSVILLE	.02	.06		.02	.30	.19	.13	.14	.06	.07	.01				.01	.03	.14	.32	.04	.06				1.60	
BELTSVILLE PLT IND STA NO 5				.11	.09	.21	.28	.11	.13	.07	.02					.03	.04	.12	.29			.01		1.60	
BETHESDA	.02			.09	.32	.41	.16	.05	.06	.01						.07	.06	.17	.15					4.79	
COCKEYSVILLE								.15	.18	.73	1.36	.21	.13	.21	.02	.01	.04	.12	.20	.70	.66	.07	.03	1.81	
GLEN ECHO	.04			.02	.12	.49	.34	.14	.08	.73	1.36	.01	.01	.01	.01	.01	.06	.11	.19	.15				1.74	
GRANTSVILLE				.09	.01	.01	.08	.14	.22	.12	.11	.17	.27	.11	.17	.17	.04	.03	*	*	*	*	*	*	
LEONARDTOWN																								*	
LUKE								.02	.04	.04	.09	.21	.69	.19	.49	.21	.80	.61		.01	*	*	*	3.40	
SALISBURY MUNICIPAL AIRPORT 6	*	.04																							
SHARPTOWN				.05	.17	.23	.25	.15	.32	.14	.63	.01												1.95	
SINES DEEP CREEK				.04		.02	.01	.11	.16	.38	.32	.40	.72	.50	.48	.37	.03					.01		3.55	
UNIONVILLE						.02	.32	.27	.39	.26	.09	.01	.01	.02	.10	.12	.24	.25	.39	.07	.04	.01	.09	2.70	
WASHINGTON WB CITY DC			.11	.13	.28	.48	.18	.12	.05	.05	.01					.04	.05	.09	.14			.01		1.74	
DELAWARE																									
WILMINGTON WB NEW CASTLE 6										*	*	*	*	*	.25	*	*	*	*	.60	*	*	*	*	
MARYLAND																									
-13th-																									
ABERDEEN PHILLIPS FIELD	.05	.05	.01		.01	.01	.01	.03																.17	
ANNAPOLIS U S NAVAL ACADEMY		.04																						.04	
BALTIMORE WB AIRPORT 6	*	.58																							
BALTIMORE WB CITY	*	*	1.99																					2.01	
BELTSVILLE PLT IND STA NO 5	.01																							.01	
COCKEYSVILLE	.02	.02	.01				.01	.05	.01			.01		.01		.01				.05				.18	
GRANTSVILLE																								.04	
LEONARDTOWN	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.75						2.75	
LUKE												.02				.02	*	*	*	*	2.75			.04	
SALISBURY MUNICIPAL AIRPORT 6				*	*	*	*	*	.02	*	*	*	*	.35	*	*	*	*	*	.13					
SHARPTOWN		.06		.01	*	*	*	*	.02	*	*	.01	.04	.02	.04	.06	.02	.01	.04	*				.31	
SINES DEEP CREEK				.03	.03																			.06	
UNIONVILLE	.01	.01		.01	.01				.03	.03		.01	.01											.06	
WASHINGTON WB CITY DC	.02											.01												.03	
DELAWARE																									
WILMINGTON WB NEW CASTLE 6	*	.91	*	*	*	*	*		.11																
MARYLAND																									
-14th-																									
ABERDEEN PHILLIPS FIELD																									
ANNAPOLIS U S NAVAL ACADEMY																								.04	
BALTIMORE WB AIRPORT 6																					*	*	*	*	
BALTIMORE WB CITY																			.01	.05	.01			.07	
BELTSVILLE																		.09	.11	.05	.08			.20	
BELTSVILLE PLT IND STA NO 5																								.13	
BETHESDA																									
COCKEYSVILLE																									
GLEN ECHO											.02	.01					.13	.01	.04	.22	.22	.10		.58	
GRANTSVILLE																	.01	.01	.01	.01	.01			.17	
LEONARDTOWN																								.06	
LUKE												.03					.01						.01	.06	
SINES DEEP CREEK													.01	.06	.99	.05	.01	.09	.03	.03	.07			1.06	
UNIONVILLE												.01		.43	.04									.29	
WASHINGTON WB CITY DC																		.31	.64	.14	.01			1.57	
DELAWARE																									
WILMINGTON WB NEW CASTLE 6																									
MARYLAND																									
-15th-																									
ANNAPOLIS U S NAVAL ACADEMY		.01																						.01	
BALTIMORE WB AIRPORT 6	*	.01																							
BELTSVILLE PLT IND STA NO 5																.01	.01							.02	
BETHESDA																									
COCKEYSVILLE																								.10	
GLEN ECHO								.05			.06													.10	
GRANTSVILLE																								.11	
LEONARDTOWN															.11	.04	.07							.07	
SALISBURY MUNICIPAL AIRPORT 6				*	*	*	*	*	.05															.15	
SINES DEEP CREEK															.03	.03	.01				.01			.01	
WASHINGTON WB CITY DC																								.07	
DELAWARE																									
WILMINGTON WB NEW CASTLE 6																									
MARYLAND																									
-16th-																									
ANNAPOLIS U S NAVAL ACADEMY																								.03	
GRANTSVILLE																								.02	
LEONARDTOWN						.05	.04	.04	.02			.01	.01	.01		.05	.32	.01	.86	.06	.01			1.49	
LUKE																				.01	.01			.04	
SALISBURY MUNICIPAL AIRPORT 6		*	*	*	*	*	.14	*	*	*	*	*	.05	*	*	*	*	*	*	.02				.03	
SINES DEEP CREEK									.01	.01														.02	
UNIONVILLE			.10	.40																				.50	
DELAWARE																									
WILMINGTON WB NEW CASTLE 6																									
MARYLAND																									
-17th-																									
ABERDEEN PHILLIPS FIELD								.04	.02	.03														.09	
ANNAPOLIS U S NAVAL ACADEMY								.10																.18	
BALTIMORE WB AIRPORT 6				*	*	*	*	.09	*	*	*	*	*	*	*	.02									
BALTIMORE WB CITY	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.53	
BELTSVILLE			.04	.13	.06					.02	.10	.04					.02	*	*	*	*	*	*	.53	
BELTSVILLE PLT IND STA NO 5				.01	.27	.04	.03			.02	.06	.14												.44	
BETHESDA				.03	.25	.13	.03			.07	.06	.02												.61	
COCKEYSVILLE							.02	.01	*	*	*	.27	.12	.31		.01	.01							.02	
GLEN ECHO				.02	.18	.28	.01	.03	.03	.01	.05	.11	.01	.01	.01	.01	.01		.01	.01				.75	
GRANTSVILLE							.01	.03	.03	.04	.01	.02												.78	
LEONARDTOWN		.04	.08				.01	.03	.03	.04	.01	.02												.37	
LUKE	.01	.01	.13	.08	.01		.08	.02		.01	.01			.09	.01		.06	.01	.01		.01	.01	.05	.04	
SALISBURY MUNICIPAL AIRPORT 6	.03						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.31	
SHARPTOWN				.01	.06		.01	.13																.26	
SINES DEEP CREEK		.01	.04	.01	.01	.06	.02	.02	.03			.02	.02	.05						.05		.06	.04	.01	
UNIONVILLE		.01	.03																						

HOURLY PRECIPITATION

MARYLAND AND DELAWARE

JULY 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
-18th-																										
MARYLAND																										
BELTSVILLE PLT IND STA NO 5																									.02	.02
BETHESDA		.01		.01	.01	.01																				.04
GRANTSVILLE	.05	.08		.01	.01							.04	.01													.20
LUKE	.02	.02		.01								.07	.01													.13
SHARPTOWN								.06	.11	.01	.03						.04									.22
SINES DEEP CREEK	.08		.01										.02													.14
UNIONVILLE		.02											.02									.05				.10
WASHINGTON WB CITY DC	.01													.02			.01									.01
-19th-																										
MARYLAND																										
BETHESDA																	.34	.02								.36
GLEN ECHO																	.25	.08								.33
-20th-																										
MARYLAND																										
SINES DEEP CREEK														.05	.05										.09	.09
WASHINGTON WB CITY DC																									.10	.10
-21st-																										
MARYLAND																										
ABERDEEN PHILLIPS FIELD																									.17	.17
ANNAPOLIS U S NAVAL ACADEMY																									.33	.33
BALTIMORE WB AIRPORT 6																										.05
BALTIMORE WB CITY																										.05
BELTSVILLE																										.25
COCKEYSVILLE																										.17
GRANTSVILLE												.15	.01	.01			.25									.13
SALISBURY MUNICIPAL AIRPORT 6																										.25
SINES DEEP CREEK		.02					.04	.06				.01										.25	*	*	*	.13
UNIONVILLE														.25												.01
WASHINGTON WB CITY DC															.01											.01
DELAWARE																										
WILMINGTON WB NEW CASTLE 6																									*	.28
-22d-																										
MARYLAND																										
ABERDEEN PHILLIPS FIELD																										.04
GRANTSVILLE																										.04
SALISBURY MUNICIPAL AIRPORT 6	*	.01																								.40
SINES DEEP CREEK																									.03	.37
-23d-																										
MARYLAND																										
GRANTSVILLE							.01				.01															.11
LUKE	.03	.07	.02		.02	.04																				.16
SINES DEEP CREEK	.02		.03																							.05
-24th-																										
MARYLAND																										
COCKEYSVILLE																									.02	.03
-25th-																										
MARYLAND																										
GRANTSVILLE																									.13	.08
SINES DEEP CREEK					.04																				.01	.01
-26th-																										
MARYLAND																										
GRANTSVILLE												.04														.04
-27th-																										
MARYLAND																										
BALTIMORE WB CITY	.03	.01																								.04
LUKE																										.22
SINES DEEP CREEK						.13											.69	.14	.04						.04	.83
-29th-																										
MARYLAND																										
BALTIMORE WB AIRPORT 6																									*	.28
SHARPTOWN																	.01	.09	.44	.08	.05					.67
-30th-																										
MARYLAND																										
ABERDEEN PHILLIPS FIELD																									.64	.05
ANNAPOLIS U S NAVAL ACADEMY																									.11	.04
BALTIMORE WB AIRPORT 6																									.04	.02
BALTIMORE WB CITY																									.02	.45
BELTSVILLE																									.03	.50
BELTSVILLE PLT IND STA NO 5																	.14	.63	.04	.03	.01				.01	.86
BETHESDA																									.02	.92
COCKEYSVILLE																									.02	.95
GLEN ECHO																									.07	.50
GRANTSVILLE																									.02	.70
LEONARDTOWN																									.01	.08
LUKE																									.12	1.46
SALISBURY MUNICIPAL AIRPORT 6																									.01	.27
SINES DEEP CREEK																									*	.47
UNIONVILLE																									.12	.83
WASHINGTON WB CITY DC																									.06	.19

See reference notes following Station Index.

HOURLY PRECIPITATION

MARYLAND AND DELAWARE

JULY 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
DELAWARE																									
WILMINGTON WB NEW CASTLE 6	-31st-																								*
MARYLAND																									
ABERDEEN PHILLIPS FIELD					.01																				*
BALTIMORE WB AIRPORT 6	*	.07																							*
SALISBURY MUNICIPAL AIRPORT 6	*	.43																							*
DELAWARE																									
WILMINGTON WB NEW CASTLE 6	*	.34																							*

DAILY TEMPERATURES

JULY 1949

Table S

Table with columns: Station, Day of month (1-31), and Average. Rows list various Maryland locations such as ABERDEEN PHILLIPS FIELD, ANNAPOLIS U S NAVAL ACAD, BALTIMORE WB AIRPORT, etc., with corresponding temperature data for each day.

See reference notes following Station Index.

DAILY TEMPERATURES

MARYLAND AND DELAWARE

JULY 1949

Table 5--Continued

Station		Day of month																															Average
		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	
HUNTINGTOWN	MAX	81	84	89	93	97	97	88	82	81	84	86	84	78	85	86	82	86	87	86	89	92	94	92	87	95	94	97	98	95	96	83	
	MIN	60	71	70	71	75	78	72	67	61	66	73	71	73	71	69	73	72	74	73	73	73	72	75	64	70	73	74	75	77	75	71	
KEEDYSVILLE	MAX	86	92	96	102	104	105	81	81	84	84	82	84	85	89	87	85	86	88	91	93	91	94	93	90	95	96	95	96	98	96	87	
	MIN	58	63	62	65	71	70	67	66	65	66	66	66	66	66	67	68	70	69	67	68	72	72	71	68	72	70	70	73	68	65	61	
LA PLATA	MAX	80	84	88	93	98	100	87	84	84	87	88	87	88	87	85	82	86	89	89	92	94	94	91	88	94	96	97	98	98	96	90	
	MIN	60	64	68	73	75	72	66	67	68	71	78	72	69	68	72	71	73	74	73	72	70	78	65	68	73	73	78	72	73	69	71	
LAUREL WILLIS FILTR PLT	MAX	78	85	92	92	96	96	94	81	88	80	87	87	80	84	85	84	82	86	87	89	91	92	95	97	98	93	92	95	94	89		
	MIN	61	68	68	69	68	73	68	65	61	61	61	70	61	70	69	72	68	67	71	71	72	70	71	65	66	73	72	78	72	69	68	
LEONARDTOWN	MAX	90	89	91	92	95	95	94	83	81	85	82	87	82	85	87	83	87	89	88	89	92	93	92	88	95	93	95	97	96	85		
	MIN	63	69	68	67	75	75	73	68	55	69	68	70	71	69	70	71	74	74	71	72	75	71	60	70	65	74	75	74	75	72	67	
MILLINGTON	MAX	83	87	95	96	102	101	81	85	86	80	92	77	81	90	90	84	87	90	89	92	96	94	93	90	97	97	101	100	100	101		
	MIN	58	70	65	70	77	75	67	63	55	64	69	70	73	69	71	69	72	75	73	74	75	74	70	64	70	73	75	76	73	72		
NATIONAL ARBORETUM DC	MAX	81	85	92	95	99	99	98	85	85	83	89	88	83	87	86	87	85	89	89	90	93	95	95	93	95	96	97	97	98	96		
	MIN	58	67	65	71	75	76	70	65	62	67	68	71	71	69	68	72	72	73	73	75	71	76	62	68	75	73	76	77	76	70		
OAKLAND	MAX	79	86	89	91	88	82	68	75	80	79	75	78	80	79	78	72	73	73	75	71	76	82	86	85	85	86	86	87	83	74		
	MIN	56	54	54	58	57	57	57	57	57	57	63	61	65	65	68	69	68	65	64	57	69	66	65	62	65	65	62	63	63	58		
OCEAN CITY	MAX	84	86	89	93	97	91	81	84	81	78	86	79	86	89	80	86	82	88	78	95	98	82	83	100	88	91	95	96	92	86		
	MIN	70	74	72	74	75	76	69	68	70	70	74	70	73	74	73	74	73	75	71	74	78	77	70	78	72	77	73	77	70	75		
OWINGS FERRY LANDING	MAX	82	86	93	94	98	100	88	83	82	84	89	84	79	86	87	82	86	88	87	90	93	94	93	90	96	93	99	100	98	84		
	MIN	59	70	67	70	74	75	70	67	59	67	71	69	71	71	69	72	72	73	72	73	74	71	65	64	68	73	75	76	74	69		
OXFORD	MAX	83	84	88	88	89	93	90	80	82	79	83	83	83	85	87	84	85	85	85	87	90	92	89	85	90	89	89	94	94	92		
	MIN	63	71	69	74	77	78	71	68	61	67	70	71	72	71	72	72	71	75	74	74	77	75	79	68	73	77	75	81	77	70		
PICARDY	MAX	78	83	90	92	94	92	81	72	78	83	84	80	80	83	82	82	83	83	89	90	97	92	88	87	92	91	92	93	94	93		
	MIN	59	64	62	65	67	71	66	60	65	65	68	65	68	65	66	67	68	65	66	71	70	67	68	69	70	70	70	69	62	60		
PIKESVILLE POLICE BRKS	MAX	80	85	93	94	98	97	90	84	80	81	88	85	82	86	86	85	84	87	89	90	91	93	91	87	92	94	93	96	94	89		
	MIN	59	67	64	63	74	72	70	60	60	66	66	68	70	68	69	70	69	70	71	74	77	69	60	62	67	71	74	77	72	64		
POCOMORE CITY	MAX	88	88	92	92	100	99	88	85	83	86	85	85	79	90	87	88	89	89	89	89	92	94	92	94	94	97	95	98	97	90		
	MIN	64	71	67	67	74	76	72	65	58	59	70	71	71	68	71	71	71	70	71	74	76	74	75	67	66	75	71	74	76	73		
PRESTON	MAX	85	87	91	93	96	97	95	82	83	81	84	85	83	88	88	82	86	87	86	89	92	93	92	86	94	93	96	98	97	81		
	MIN	60	70	67	72	76	76	70	64	57	63	69	70	73	70	73	72	72	75	73	74	77	73	76	64	65	74	73	75	70	70		
PRETTYBOY DAM	MAX	84	86	90	92	97	97	95	80	85	86	84	86	87	84	82	86	87	89	88	88	88	88	84	90	91	91	91	92	92	90		
	MIN	59	58	64	65	71	68	66	65	58	60	67	67	67	68	68	68	70	68	71	72	72	72	72	61	67	71	75	73	66	67		
PRINCESS ANNE	MAX	85	87	91	91	93	95	90	83	83	84	82	87	83	86	87	83	88	88	87	88	91	92	92	89	93	93	96	95	94	80		
	MIN	61	70	68	68	76	72	64	70	57	72	70	71	62	77	73	73	75	73	75	77	74	76	63	62	72	71	74	76	71	68		
RANDALLSTOWN POLICE BRKS	MAX	81	85	91	94	97	96	91	82	81	80	85	81	81	83	86	88	88	86	89	87	89	91	89	88	92	92	92	91	90	92		
	MIN	56	65	62	61	72	69	70	60	60	65	65	67	68	67	68	68	68	68	67	69	70	68	68	68	69	70	72	74	70	65		
RIDGELY	MAX	87	91	94	95	101	99	97	85	86	82	90	85	82	89	89	86	87	89	89	90	92	95	94	93	95	95	99	100	99	95		
	MIN	68	71	70	72	80	79	72	61	64	64	68	71	72	70	71	71	72	74	73	73	74	72	72	63	65	72	75	78	74	70		
RIVERDALE	MAX	81	88	94	96	99	98	87	86	85	81	91	85	84	88	88	85	86	90	90	93	94	96	94	90	96	95	97	98	98	90		
	MIN	57	67	63	68	72	72	67	65	60	66	67	70	71	66	67	72	72	73	73	73	69	75	59	64	62	72	71	76	73	68		
ROCK HALL	MAX	87	88	91	93	96	97	90	85	85	79	90	90	82	89	89	85	85	88	88	91	93	93	92	90	94	93	95	97	95	88		
	MIN	57	68	63	73	77	72	68	62	55	68	68	71	72	70	68	69	71	76	74	76	72	74	75	60	69	74	77	75	71	70		
ROCKVILLE	MAX	79	82	88	91	95	95	93	80	80	78	85	85	84	85	83	82	84	87	89	90	91	91	88	91	92	93	93	93	88			
	MIN	61	68	67	69	73	73	68	65	64	62	58	70	70	70	67	65	71	71	72	73	71	76	65	68	75	75	76	74	67	64		
ROYAL OAK	MAX	87	90	92	93	95	98	92	86	84	91	87	81	87	92	86	87	89	88	90	93	95	94	90	96	95	98	100	98	98	92		
	MIN	60	70	67	74	77	79	72	64	58	65	70	72	72	69	71	72	72	75	74	75	78	75	80	66	69	78	78	81	76	71		
SALISBURY	MAX	87	88	92	94	94	96	95	88	83	82	80	86	84	87	87	85	88	88	89	89	92	94	94	94	97	95	96	100	100	98		
	MIN	62	70	67	68	77	76	71	64	53	60	69	69	74	68	72	72	72	72	72	75	77	73	74	64	67	73	76	78	80	78		
SALISBURY POLICE BRKS	MAX	86	88	96	95	97	95	92	82	82	81	87	84	87	87	82	89	90	89	89	94	96	95	93	97	97	100	100	105	103			
	MIN	62	70	68	68	75	77	74	65	59	69	68	74	67	67	72	71	75	71	73	73	66	74	64	62	72	71	76	79	73	69		
SALISBURY MUNIC AIRPORT	MAX	86	87	93	92	94	96	91	82	83	79	87	78	86	86	81	88	88	88	89	92	93	93	92	97	94	95	100	99	98	84		
	MIN																																

EVAPORATION AND WIND MOVEMENT

MARYLAND AND DELAWARE

JULY 1949

Table 6

Station		Day of month																														Total	Departure from normal	
		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- WIND	.11 28	.11 34	.16 24	.28 20	.30 32	.26 20	.28 34	.07 48	.28 42	* *	.44 100	.22 45	.07 52	.11 23	.21 32	.19 46	.17 50	.14 72	.27 51	.22 26	.26 28	.18 20	.31 41	.28 27	.24 6	.27 42	.22 8	.33 30	.28 38	.28 28	.28 36	6.76 1113	

STATION INDEX

MARYLAND AND DELAWARE

JULY 1949

Station	Index No.	County	Drainage	Latitude	Longitude	Elev. (ft.)	Time of observation			Years of record			Observer	Refer to tables
							Zone	Temp.	Precip.	Temp.	Precip.	Evap.		
DELAWARE														
BRIDGEVILLE	1330	SUSSEX	CHESAPEAKE	38 44	75 38	45	EST	6P	6P	59	59		W M RAY	2 3 5
DELAWARE CITY REEDY POINT	2625	NEW CASTLE	COASTAL	39 34	75 35	10	EST	4P	4P	63	63		J E MADEN	2 3 5
DOVER	2730	KENT	COASTAL	39 10	75 32	34	EST	4P	4P	62	62		F J BOWERY	2 3 5
GEORGETOWN	3570	SUSSEX	CHESAPEAKE	38 39	75 27	50	EST	6P	6P	4	4		E F TURNER	2 3 5
LEWES	5320	SUSSEX	COASTAL	38 46	75 08	10	EST	8P	8P	5	5		E E LYNCH	2 3 5
MILFORD	5915	SUSSEX	COASTAL	38 55	75 25	20	EST	6P	6P	54	54		L G MARKERT	2 3 5
MILLSBORO	6020	SUSSEX	COASTAL	38 35	75 19	20	EST	6P	6P	57	57		P C TOWNSEND	2 3 5
NEWARK PUMPING STATION	6405	NEW CASTLE	COASTAL	39 40	75 45	110	EST	6P	6P	18	18		G C PRICE	3 5
NEWARK COLLEGE FARM	6410	NEW CASTLE	COASTAL	39 39	75 46	110	EST	6P	6P	37	37		FRED COLLINS	2 3 5
SMYRNA	8510	KENT	COASTAL	39 15	75 36	45	EST	6P	6P	2	2		C M EWING	2 3 5
WILMINGTON WB NEW CASTLE	9595	NEW CASTLE	COASTAL	39 40	75 36	73	EST	MID	MID	2	2		U S WEATHER BUREAU	2 3 4 5
WILMINGTON CITY HALL	9600	NEW CASTLE	COASTAL	39 45	75 33	99	EST	5P	5P	56	56		STREET DEPARTMENT	2 3 5
WILMINGTON PORTER RESERVOIR	9605	NEW CASTLE	COASTAL	39 46	75 32	260	EST	MID	MID	38	38		WATER DEPARTMENT	2 3 5
DISTRICT OF COLUMBIA														
BRIGHTWOOD	1135		POTOMAC	38 57	77 01	260	EST	8A		3	3		BENJ C CRUCKSHANKS	2 5
DALECARLIA RESERVOIR	2325		POTOMAC	38 56	77 07	146	EST	3P	3P	4	4		JAMES L KERRICK	2 3 5
NATIONAL ARBORETUM	6350		POTOMAC	38 54	76 58	70	EST	3P	3P	4	4		JAMES R HARLOW	2 3 5
U S SOLDIERS HOME	9035		POTOMAC	38 56	77 01	230	EST	7A	7A	5	5		R C PRATT	2 3 5
WASHINGTON WB CITY	9290		POTOMAC	38 54	77 03	72	EST	MID	MID	79	79		U S WEATHER BUREAU	2 3 4 5
MARYLAND														
ABERDEEN PHILLIPS FIELD	0015	HARFORD	CHESAPEAKE	39 28	76 10	62	EST	MID	MID	31	31		U S ARMY	2 3 5
ANAPOLIS U S NAVAL ACADEMY	0185	ANNE ARUNDEL	CHESAPEAKE	38 59	76 28	40	EST	MID	MID	64	64		U S NAVY	2 3 4 5
BALTIMORE WB AIRPORT	0465	BALTIMORE	CHESAPEAKE	39 15	76 32	16	EST	MID	MID	15	15		U S WEATHER BUREAU	2 3 4 5
BALTIMORE WB CITY	0470	BALTIMORE	CHESAPEAKE	39 17	76 37	14	EST	MID	MID	79	79		U S WEATHER BUREAU	2 3 4 5
BALTIMORE HAMILTON	0475	BALTIMORE	CHESAPEAKE	39 23	76 33	355	EST	6P	6P	2	2		R G BAUER JR	2 3 5
BATTERY PARK	0565	MONTGOMERY	POTOMAC	39 00	77 07	338	EST	5P	5P	4	4		RAY K LINSLEY	2 3 5
BELTSVILLE	0700	PRINCE GEORGES	POTOMAC	39 02	76 53	120	EST	8A	8A	12	12		J B SHEPHERD	2 3 4 5 6
BELTSVILLE PLT IND STA NO 1	0701	PRINCE GEORGES	POTOMAC	39 02	76 56	160	EST	9A	9A				H P SEVY	2 3 5
BELTSVILLE PLT IND STA NO 2	0702	PRINCE GEORGES	POTOMAC	39 02	76 56	136	EST	9A	9A				H P SEVY	2 3 5
BELTSVILLE PLT IND STA NO 3	0703	PRINCE GEORGES	POTOMAC	39 02	76 56	200	EST	9A	9A				H P SEVY	2 3 5
BELTSVILLE PLT IND STA NO 4	0704	PRINCE GEORGES	POTOMAC	39 02	76 56	265	EST	9A	9A				H P SEVY	2 3 5
BELTSVILLE PLT IND STA NO 5	0705	PRINCE GEORGES	POTOMAC	39 01	76 57	100	EST	9A	9A				H P SEVY	2 3 4 5
BELTSVILLE PLT IND STA NO 6	0706	PRINCE GEORGES	POTOMAC	39 01	76 57	215	EST	9A	9A				H P SEVY	2 3 5
BENSON POLICE BARRACKS	0732	HARFORD	CHESAPEAKE	39 30	76 23	365	EST	5P	5P	2	2		MD STATE POLICE	2 3 5
BETHESDA	0795	MONTGOMERY	POTOMAC	38 58	77 07	220	EST		MID		5		U S ENGINEERS	3 4
BLACKWATER	0915	DORCHESTER	CHESAPEAKE	38 26	76 08	5	EST	4P	4P	9	9		NATL WILDLIFE REFUGE	2 3 5
BRIGHTON DAM	1125	MONTGOMERY	PATUXENT	39 13	77 02	350	EST	5P	5P	4	4		FRED S GILPIN	2 3 5
BROOKDALE	1170	MONTGOMERY	POTOMAC	38 57	77 06	260	EST	7P	7P	4	4		B FRANCIS DASHIELL	3
BROOKSIDE MANOR	1180	PRINCE GEORGES	POTOMAC	38 58	76 58	50	EST	6P	6P	4	4		RALPH HIGGS	2 3 5
BURNT MILLS RESERVOIR	1278	MONTGOMERY	POTOMAC	39 02	77 00	220	EST		8A		4		J M JESTER	3
CAMBRIDGE	1385	DORCHESTER	CHESAPEAKE	38 34	76 09	15	EST	7P	7P	55	55		D'ARCY HARDING	2 3 5
CHARLOTTE HALL	1685	ST MARYS	PATUXENT	38 28	76 44	167	EST	6P	6P	28	28		J B TENNYSON	2 3 5
CHELTERHAM	1710	PRINCE GEORGES	PATUXENT	38 44	76 51	230	EST	7A	7A	49	49		U S MAGNETIC OBS	2 3 5
CHESTERTOWN	1750	KENT	CHESAPEAKE	39 13	76 04	35	EST	11P	11P	44	44		T W ELIASON JR	2 3 5
CHEWSVILLE BRIDGEPORT	1790	WASHINGTON	POTOMAC	39 38	77 41	560	EST	SS	SS	52	52		D PAUL OSWALD	2 3 5
CLEAR SPRING	1890	WASHINGTON	POTOMAC	39 40	77 54	560	EST	5P	5P	50	50		MRS L A COHILL	2 3 5
COCKYSVILLE	1860	BALTIMORE	CHESAPEAKE	39 27	76 39	390	EST		MID		2		D M PARKS	2 3 4 5
COLEMAN	1980	KENT	CHESAPEAKE	39 21	76 07	-30	EST	SS	SS	52	52		W B HARRIS	2 3 5
COLLEGE PARK UNIV OF MD	1995	PRINCE GEORGES	POTOMAC	38 59	76 56	95	EST	5P	5P	63	63		R G BROWN	2 3 5
CONOWINGO DAM	2060	HARFORD	SUSQUEHANNA	39 39	76 10	40	EST	MID	MID	14	14		SUSQUEHANNA ELEC CO	2 3 5
CONOWINGO POLICE BARRACKS	2065	HARFORD	SUSQUEHANNA	39 39	76 11	195	EST	5P	5P	2	2		MD STATE POLICE	2 3 5
CRISFIELD	2205	SOMERSET	CHESAPEAKE	37 59	75 51	5	EST	5P	5P	30	30		G C ADAMS SR	2 3 5
CUMBERLAND	2280	ALLEGANY	POTOMAC	39 39	78 48	623	EST	6P	6P	79	79		R R GOLDEN	2 3 5
CUMBERLAND POLICE BARRACKS	2285	ALLEGANY	POTOMAC	39 40	78 47	880	EST	6P	6P	2	2		MD STATE POLICE	2 3 5
DISTRICT HEIGHTS	2585	PRINCE GEORGES	POTOMAC	38 51	76 54	272	EST	6P	6P	4	4		J P KOHLER	2 3 5
DUNDALK	2660	BALTIMORE	CHESAPEAKE	39 16	76 31	28	EST	6P	6P				FRANK YOST	2 3 5
EASTON POLICE BARRACKS	2700	TALBOT	CHESAPEAKE	38 46	76 01	60	EST	5P	5P	59	59		MD STATE POLICE	2 3 5
EDGEMONT	2770	WASHINGTON	POTOMAC	39 40	77 33	920	EST		8A		11		LEE G HARNE	3
ELKTON	2860	CECIL	CHESAPEAKE	39 36	75 50	28	EST	6P	6P	23	23		H W BOUCHELLE	2 3 5
EMMITSBURG	2905	FREDERICK	POTOMAC	39 41	77 21	720	EST	5P	5P	83	83		MT ST MARYS SEMINARY	2 3 5
FALLSTON	3050	HARFORD	CHESAPEAKE	39 30	76 24	450	EST	6P	6P	80	80		MISS ETHEL CURTISS	2 3 5
FORT GEORGE G MEADE	3220	ANNE ARUNDEL	PATUXENT	39 07	76 46	195	EST	MID	6P	8	8		U S ARMY	2 3 5
FREDERICK	3345	FREDERICK	POTOMAC	39 25	77 25	287	EST	5P	5P	80	80		D J HARKEY JR	CLOSED
FREDERICK POLICE BARRACKS	3348	FREDERICK	POTOMAC	39 25	77 25	380	EST	5P	5P	2	2		MD STATE POLICE	2 3 5
FREDERICK WB AIRPORT	3350	FREDERICK	POTOMAC	39 25	77 23	294	EST	10P	10P	6	6		U S WEATHER BUREAU	2 3 5
FREDERICK 3 MI E	3355	FREDERICK	POTOMAC	39 24	77 22	385	EST		8A		1		GLENNA R STALEY	3
FRIENDSVILLE	3400	GARRETT	YOUGHIOGHENY	39 37	79 28	2288	EST	6P	6P	27	27		HARRY N SAVAGE	2 3 5
FROSTSBURG	3410	ALLEGANY	POTOMAC	39 39	78 55	2100	EST	6P	6P	48	48		C A SUTER JR	2 3 5
GERMANTOWN	3585	MONTGOMERY	POTOMAC	39 10	77 23	460	EST	6P	6P	29	29		R F STALEY	2 3 5
GLEN ECHO	3645	MONTGOMERY	POTOMAC	38 58	77 09	150	EST		MID		5		U S ENGINEERS	3 4
GLENN DALE BELL STATION	3675	PRINCE GEORGES	PATUXENT	38 58	76 48	151	EST	4P	4P	29	29		BUREAU PLANT INDUSTRY	2 3 5
GRANTSVILLE	3795	GARRETT	OHIO	39 42	79 09	2300	EST		MID		7		MARY R BITTINGER	3 4
GRASONVILLE	3805	QUEEN ANNES	CHESAPEAKE	38 57	76 13	8	EST	6P	6P	2	2		MISS CAROLYN COURSEY	2 3 5
GREAT FALLS	3855	MONTGOMERY	POTOMAC	39 00	77 15	200	EST	5P	8A	61	61		U S ENGINEERS	2 3 5
GREENBELT	3860	PRINCE GEORGES	POTOMAC	39 01	76 52	200	EST	8A	8A	1	1		WILLIAM H KLINE	2 3 5
GROSVENOR LANE	3930	MONTGOMERY	POTOMAC	39 01	77 09	330	EST	6P	6P	3	3		A F MAGRUM	2 3 5
HAGERSSTOWN	2975	WASHINGTON	POTOMAC	39 75	77 44	660	EST	6P	6P	8	8		WILLIAM M HAMB	2 3 5
HANCOCK FRUIT LABORATORY	4630	WASHINGTON	POTOMAC	39 42	78 11	428	EST	8A	8A	16	16		CHARLES O DUNBAR	2 3 5
HUNTINGTOWN	4485	CALVERT	CHESAPEAKE	38 37	76 37	160	EST	7P	7P	14	14		ELMER O BOWEN	2 3 5
KEDYSVILLE	4780	WASHINGTON	POTOMAC	39 29	77 42	420	EST	6P	6P	46	46		TRAVIS D KNOBE	2 3 4 5
LA PLATA	5080	CHARLES	POTOMAC	38 32	76 58	190	EST	5P	5P	35	35		MILTON M SOMERS	2 3 5
LEONARDTOWN	5200	ST MARYS	POTOMAC	38 18	76 38	100	EST	5P	5P	15	15		THOMAS E STOKEL	2 3 4 5
LUKE	5530	ALLEGANY	POTOMAC	39 29	79 03	950	EST		8A		12		J G PATRICK	3 4
MILLINGTON	5985	KENT	CHESAPEAKE	39 15	75 50	27	EST	SS	SS	52	52		HENRY L HIGMAN	2 3 5
OAKLAND	6620	GARRETT	MONONGAHELA	39 24	79 24	2420	EST	5P	5P	52	52		R E WEBER	2 3 4 5
OWINGS FERRY LANDING	6770	CALVERT	CHESAPEAKE	38 42	76 41	120	EST	7P	7P	33	33		THOMAS J BOURNE	2 3 5
OXFORD	6785	TALBOT	CHESAPEAKE	38 42	76 10	10	EST	5P	5P	13	13		HENRY WILCO	

STATION INDEX

MARYLAND AND DELAWARE

JULY 1949

Continued

Station	Index No.	County	Drainage	Latitude	Longitude	Elev. (ft.)	Time of observation			Years of record			Observer	Refer to tables
							Zone	Temp.	Precip.	Temp.	Precip.	Evap.		
PIKESVILLE POLICE BARRACKS	7015	BALTIMORE	PATAPSCO	39 22	76 43	485	EST	5P	5P	2	2	MD STATE POLICE	2 3 5	
POCOMOKE CITY	7140	WORCESTER	CHESAPEAKE	38 04	75 34	16	EST	5P	5P	21	21	RAYMOND PHILLIPS	2 3 5	
PRESTON	7310	CAROLINE	CHESAPEAKE	38 43	75 55	48	EST	5P	5P			MRS GERTRUDE K WILLEY	2 3 5	
PRETTY BOY DAM	7315	BALTIMORE	CHESAPEAKE	39 38	76 42	780	EST	5P	5P	19	19	C W HENDRICKS	2 3 5	
PRINCESS ANNE	7330	SOMERSET	CHESAPEAKE	38 12	75 40	17	EST	5P	5P	50	50	GLENN R BELLINGER	2 3 5	
RANDALLSTOWN POLICE BARRACKS	7435	BALTIMORE	PATAPSCO	39 23	76 48	625	EST	5P	5P	2	2	MD STATE POLICE	2 3 5	
RIDGELY	7575	CAROLINE	CHESAPEAKE	38 57	75 53	67	EST	6P	6P	59	59	J K SNOWBERGER	2 3 5	
RIVERDALE	7615	PRINCE GEORGES	POTOMAC	38 58	76 56	45	EST	6P	6P	4	4	R T ZOCH	2 3 5	
ROCK CREEK FOREST	7690	MONTGOMERY	POTOMAC	39 00	77 04	200	EST	6P	6P			CHARLES O SCHICK	3	
ROCK HALL	7700	KENT	CHESAPEAKE	39 08	76 14	15	EST	6P	6P	36	36	EDWIN URLE	2 3 5	
ROCKVILLE	7705	MONTGOMERY	POTOMAC	39 05	77 09	440	EST	5P	5P	2	2	MONTGOMERY CO POLICE	2 3 5	
ROYAL OAK	7806	TALBOT	CHESAPEAKE	38 43	76 11	10	EST	6P	6P	2	2	J L SWAINE JR	2 3 5	
SALISBURY	8000	WICOMICO	CHESAPEAKE	38 22	75 37	10	EST	4P	4P	43	43	CITY OF SALISBURY	2 3 5	
SALISBURY POLICE BARRACKS	8003	WICOMICO	CHESAPEAKE	38 25	75 34	42	EST	5P	5P	2	2	MD STATE POLICE	2 3 5	
SALISBURY MUNICIPAL AIRPORT	8005	WICOMICO	CHESAPEAKE	38 20	75 30	46	EST	MID	MID	2	2	CIVIL AERO ADM	2 3 4 5	
SAVAGE RIVER DAM	8065	GARRETT	POTOMAC	39 30	79 08	1460	EST		8A			ANNA WILT	3	
SHARPTOWN	8210	WICOMICO	CHESAPEAKE	38 33	75 43	10	EST		MID			WALTER G MANN	3 4	
SINES DEEP CREEK	8315	GARRETT	YOUGHIOGHENY	39 31	79 25	2030	EST		MID			C E MAC MURRAY	2 3 4 5	
SNOW HILL	8380	WORCESTER	CHESAPEAKE	38 11	75 24	18	EST	5P	5P			ELLIOTT BROWN	2 3 5	
SOLOMONS	8405	CALVERT	CHESAPEAKE	38 19	76 27	20	EST	6P	6P	58	58	CHESAPEAKE BIOLOGICAL LAB	2 3 5	
TAKOMA PARK MISS AVE	8725	MONTGOMERY	POTOMAC	38 59	77 00	230	EST	7P	7P	5	5	O L HARVEY	2 3 5	
TONOLOWAY	8855	WASHINGTON	POTOMAC	39 40	78 12	550	EST	6P	6P	25	25	J H CLINGERMAN	2 3 5	
TOWSON	8877	BALTIMORE	PATAPSCO	39 24	76 36	415	EST	5P	5P		11	BALTIMORE CO POLICE	2 3 5	
UNIONVILLE	9030	FREDERICK	POTOMAC	39 28	77 11	450	EST	6P	6P	10	8	G P VON RIFF JR	2 3 4 5	
WALDORF POLICE BARRACKS	9195	CHARLES	POTOMAC	38 39	76 53	210	EST	5P	5P	2	2	MD STATE POLICE	2 3 5	
WATERLOO POLICE BARRACKS	9314	HOWARD	PATAPSCO	39 10	76 47	230	EST	5P	5P	2	2	MD STATE POLICE	2 3 5	
WEST LANHAM HILLS	9400	PRINCE GEORGES	POTOMAC	38 57	76 53	165	EST	6P	6P	2	2	LILBURN R SEAMON	2 3 5	
WESTERN PORT	9405	ALLEGANY	POTOMAC	39 29	79 02	1000	EST	6P	6P	56	56	NORRIS BRUCE	2 3 5	
WESTMINSTER	9435	CARROLL	CHESAPEAKE	39 35	77 00	770	EST	6P	6P	40	40	H J MATHIAS	2 3 5	
WHALEYSVILLE	9497	WORCESTER	CHESAPEAKE	38 24	75 18	32	EST	5P	5P			R E WIMBROW	2 3 5	
WHITE HALL	9507	BALTIMORE	CHESAPEAKE	39 37	76 38	350	EST		5P		2	BLAINE MC COLLUM	2 3 5	
WILLIAMSPORT	9570	WASHINGTON	POTOMAC	39 37	77 51	360	EST		7A		11	R C WILLSON	3	
WILLIS SCHOOL FILTER PLANT	9579	PRINCE GEORGES	PATUXENT	39 06	76 54	400	EST		8A		4	ROBERT E CRAVER	3	
WOODSTOCK COLLEGE	9750	BALTIMORE	CHESAPEAKE	39 20	76 53	415	EST	6P	6P	80	80	WOODSTOCK COLLEGE	2 3 5	

NEW STATIONS

OCEAN CITY	6665	WORCESTER	COASTAL	38 29	75 05	17	EST	X					US COAST GUARD	2 3 5
VIENNA	9140	DORCHESTER	CHESAPEAKE	38 29	75 50	12	EST	8P	8P				EASTERN SHORE PUB SERV CO	2 3 5

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.

Delayed data and corrections will be carried only in the June and December issues 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: Temperatures in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.

Amounts in Table 4 are from recording gages. Traces are not shown.

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

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

- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Precipitation measured at 6-hourly intervals, no recording gage.
- SS This entry in time of observation column in Station Index means sunset.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.

Subscription Price: 15¢ per copy; \$1.50 a year. (Yearly subscription includes Annual Summary.) Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, Federal Building, Albany 1, N.Y.

W.R.P.C., Albany, N.Y. ---9-20-49--1150