

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

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CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

SEPTEMBER 1948

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ACKNOWLEDGMENTS

In addition to the climatological data from some 8,000 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.

MARYLAND AND DELAWARE - SEPTEMBER 1948

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

GENERAL SUMMARY

Mean temperatures and rainfall were slightly below normal during September. Sunshine was somewhat more than normal and winds were about normal in velocity and prevailing direction.

The highest temperatures were near 90 degrees with practically all occurrences on the 9th or 13th. Temperatures were considerably above normal also on the 18th-20th. The coolest periods occurred at the beginning of the month and from the 22nd through the 27th. However, neither of these periods were unusually cool. The only significant frost was reported from Garrett County on the 26th-27th.

Rainfall was considerably above normal in Allegany County and a little above normal in Garrett County, western Washington County and at scattered stations in southern Maryland and the lower Del-Mar Peninsula. However, it was deficient by 1 to 2-1/2 inches in the northern and central Del-Mar areas, and in north-central counties from Pennsylvania down to the northern portions of Anne Arundel, Prince Georges and Montgomery Counties. The rainfall was distributed fairly well during the month with most of it falling on the 6th-10th, 18th-22nd and on the 30th. New Castle County, Delaware, and Cecil and eastern Harford Counties, Maryland, had no significant rain from the 10th to the 30th, with a few stations reporting no measureable rain during that period. There was no snow reported in the two-state area during the month.

The weather of September favored the final development of crops. At the end of the month, corn was being harvested in all portions of the two-state area. Early sown winter grains were up to good starts in scattered areas. Plowing for seeding other fields in winter grains and cover crops was under way. Haying operations were about completed. Pastures generally were in good condition for the season. Late truck crops were being harvested in small quantities. The harvesting of fall varieties of apples was under way but indications were that the crop would be less than 20 percent of normal. The peak of the harvest was expected to be about October 15th. The harvesting of the tobacco crop in southern Maryland was completed during the latter half of September.

TEMPERATURE

The monthly mean temperature for the section was 66.9 degrees, 0.7 degree below normal; for Maryland, 66.9 degrees, 0.9 degree below normal; and for Delaware, 67.1 degrees, 1.6 degree below normal.

For Maryland, the monthly mean temperature varied from 72.9 degrees at Crisfield, to 60.6 degrees at Friendsville. The highest temperature was 95 degrees on the 6th and 7th at Blackwater, and the lowest was 29 degrees on the 27th at Oakland. The greatest local monthly temperature range was 58 degrees at Friendsville, ranging from 89 degrees on the 8th to 31 degrees on the 26th and 27th. The least local monthly temperature range was 34 degrees at Oxford, ranging from 84 degrees on the 6th, 9th and 13th to 50 degrees on the 27th.

For Delaware, the monthly mean temperature varied from 68.2 degrees at Dover and Milford to 66.2 degrees at Georgetown. The highest temperature was 91 degrees on the 9th at Milford and the lowest was 38 degrees on the 26th at Newark (College Farm). The greatest local monthly temperature range was 52 degrees at Newark (College Farm), having a high reading of 90 degrees on the 13th and a low reading of 38 degrees on the 26th. The least local monthly range was 43 degrees at Bridgeville with a high reading of 88 degrees on the 9th and a low reading of 45 degrees on the 2nd, 23rd, 25th, 26th and 27th.

PRECIPITATION

The monthly average for the section was 2.79 inches, 0.57 inch below normal; for Maryland, 2.90 inches, 0.46 inch below normal; and for Delaware, 1.95 inches, 1.49 inches below normal. For Maryland, it was greatest at Cumberland with 5.33 inches, and least at Solomons with 1.27 inches. The greatest 24-hour rainfall was 2.40 inches on the 29th at Tonoloway. For Delaware, the monthly precipitation was greatest at Millsboro with 4.19 inches, and least at Dover with 1.03 inches. The greatest 24-hour rainfall was 1.80 inches on the 21st at Millsboro.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

SEPTEMBER 1948

STATIONS	SEA LEVEL PRESSURE EXTREMES - INCHES				WIND				RELATIVE HUMIDITY AVERAGES				SUN- SHINE	DEGREE DAYS 65° BASE
	HIGHEST	DATE	LOWEST	DATE	AVERAGE SPEED M.P.H.	MAXIMUM SPEED M.P.H.	DIRECTION	DATE	1:30A EST	7:30A EST	1:30P EST	7:30P EST	PERCENT OF POSSIBLE	
ABERDEEN	30.44	17	29.64	23					92	88	67	85		
ANNAPOLIS U S NAVAL ACAD	30.50	17	29.71	23	7.2				79	80	63	72		
BALTIMORE WB	30.50	17	29.73	23	7.8	39	SW	18	80	78	53	70	69	25
WASHINGTON WB DC	30.51	17	29.72	23	5.1	25	NW	9	81	82	51	67	73	27

TABLE 1
COMPARATIVE DATA

YEAR	MARYLAND						DELAWARE						YEAR	MARYLAND						DELAWARE					
	TEMP., °F.			PRECIP., INCHES			TEMP., °F.			PRECIP., INCHES				TEMP., °F.			PRECIP., INCHES			TEMP., °F.			PRECIP., INCHES		
	MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 IN. OR MORE	MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 IN. OR MORE		MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 IN. OR MORE	MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 IN. OR MORE
1895	70.4	101	27	2.08	T	4	71.2	99	39	1.92	0.0	4	1923	68.2	92	28	3.45	0.0	9	68.5	88	39	3.93	0.0	8
1896	66.3	94	28	4.39	0.0	8	67.1	93	36	3.96	0.0	7	1924	62.9	101	30	6.06	0.0	12	64.8	98	40	5.68	0.0	11
1897	66.7	100	22	1.67	0.0	3	67.9	97	40	1.55	0.0	3	1925	71.4	100	35	1.78	0.0	7	72.3	94	39	1.06	0.0	4
1898	69.3	100	29	1.80	0.0	5	70.3	97	44	3.35	0.0	6	1926	67.8	93	35	5.15	0.0	11	68.5	93	44	3.81	0.0	7
1899	65.3	99	25	4.85	0.0	7	66.4	92	39	2.81	0.0	8	1927	67.8	99	26	1.36	0.0	4	68.0	96	38	2.04	0.0	5
1900	72.0	103	29	3.47	0.0	6	71.6	95	43	2.75	0.0	6	1928	63.1	92	28	4.45	0.0	10	64.9	93	34	6.57	0.0	12
1901	66.4	94	29	3.08	0.0	8	68.1	94	42	2.45	0.0	6	1929	68.2	100	25	3.58	0.0	8	69.4	96	40	3.99	0.0	8
1902	66.0	101	25	6.19	0.0	10	67.4	92	42	6.14	0.0	10	1930	72.9	102	33	1.31	0.0	6	73.8	100	42	2.80	0.0	5
1903	66.0	98	24	1.97	0.0	5	67.2	90	36	3.29	0.0	6	1931	72.0	100	30	2.61	0.0	8	73.5	98	43	2.00	0.0	5
1904	67.0	99	27	3.66	0.0	5	67.5	95	33	3.21	0.0	5	1932	67.9	106	25	2.20	0.0	6	69.3	97	37	2.20	0.0	6
1905	67.1	94	24	2.68	0.0	6	67.8	91	38	4.81	0.0	8	1933	70.0	94	37	3.20	0.0	11	71.6	94	46	3.44	0.0	10
1906	70.6	94	36	1.25	0.0	6	72.2	98	47	1.51	0.0	6	1934	68.5	92	36	9.36	0.0	14	70.0	90	46	9.12	0.0	13
1907	68.2	95	30	6.21	0.0	12	69.6	93	35	6.39	0.0	11	1935	65.0	92	28	7.60	0.0	8	66.2	87	38	10.97	0.0	6
1908	65.9	94	24	2.39	0.0	3	66.8	90	40	2.49	0.0	4	1936	69.3	97	29	2.14	0.0	7	69.5	92	42	4.79	0.0	9
1909	65.4	92	23	3.35	0.0	5	66.5	87	39	2.94	0.0	5	1937	64.1	96	26	1.75	0.0	6	65.4	93	38	1.48	0.0	6
1910	69.4	98	32	1.90	0.0	6	69.9	96	46	0.76	0.0	4	1938	65.6	92	32	5.80	0.0	13	67.3	90	39	8.36	0.0	12
1911	69.2	95	30	2.80	0.0	8	69.6	91	41	2.00	0.0	6	1939	68.7	100	31	3.25	0.0	7	69.5	95	44	1.97	0.0	7
1912	69.1	102	30	5.93	0.0	10	70.2	102	39	4.65	0.0	10	1940	64.4	95	25	3.35	0.0	6	65.6	91	32	3.20	0.0	6
1913	66.5	102	22	2.65	T	7	68.1	91	41	3.92	0.0	8	1941	70.0	100	31	0.57	0.0	3	71.0	97	38	0.24	0.0	2
1914	64.6	98	21	1.20	0.0	4	66.5	97	34	0.68	0.0	3	1942	68.0	95	19	3.03	0.0	8	69.3	92	32	2.75	0.0	8
1915	69.2	98	31	2.26	0.0	6	71.1	99	36	0.90	0.0	4	1943	65.7	99	25	1.85	0.0	6	67.4	99	36	1.79	0.0	6
1916	65.1	98	26	3.39	0.0	7	66.5	94	38	3.64	0.0	6	1944	67.9	95	32	4.86	0.0	12	69.9	96	39	6.36	0.0	10
1917	62.5	93	27	2.62	0.0	7	63.5	91	37	3.35	0.0	6	1945	70.5	94	37	5.57	0.0	10	71.7	94	44	4.50	0.0	10
1918	63.2	88	27	3.73	0.0	8	64.2	87	37	3.92	0.0	8	1946	67.9	99	30	3.61	0.0	7	68.8	94	40	2.91	0.0	6
1919	68.1	100	31	2.34	0.0	4	68.3	94	40	2.23	0.0	4	1947	68.0	95	22	2.98	0.0	9	68.6	94	31	3.23	0.0	9
1920	67.7	92	35	3.11	0.0	6	68.4	89	40	2.87	0.0	6	1948	67.6	95	29	3.35	0.0	6	68.7	91	38	3.41	0.0	6
1921	72.5	99	37	3.48	0.0	9	73.4	98	45	2.16	0.0	7	PERIOD	67.6	106	19	3.36	T	7	68.7	102	31	3.44	0.0	7
1922	68.6	100	27	2.61	0.0	4	68.9	93	39	2.26	0.0	4													

CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

SEPTEMBER 1948

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 PROVING GROUND	66.6	-1.5	89	9+	43	25+			2.82	-.54	1.62	28				6	2	2
ANAPOLIS U S NAVAL ACADEMY	68.8	-0.8	87	18	50	23			1.73	-2.09	.70	10				7	3	
BALTIMORE WB AIRPORT	69.6	2.0	91	9+	48	23	2		3.88	-.51	1.40	8				7	4	1
BALTIMORE WB CITY	70.2	1.7	93	13	50	23	2		2.27	-1.10	.80	30				7	4	
BALTIMORE HAMILTON	67.8		91	9	41	27	1		2.77		.89	10				7	5	
BATTERY PARK																		
BATTERY PARK	66.6 m		90	9+	40	26	2		3.82		1.86	10				6	4	1
BELTSVILLE	66.0	-1.1	91	10	39	26	1		2.56	-1.27	.82	30				6	4	
BENSON	65.2		89	13	40	2+			2.36		.88	10				7	4	
BLACKWATER	71.0	1.9	95	6+	48	27	4		2.82	-.18	.90	19				7	4	
BROOKSIDE MANOR	67.1		92	9	41	26+	3		3.58		1.26	30				6	4	1
CAMBRIDGE																		
CAMBRIDGE	68.5	-1.7	91	9+	44	27	5		2.21	-1.22	.72	22				5	4	
CHARLOTTE HALL	67.4	-1.7	89	13	45	26+			3.25	-.23	1.26	30				6	3	2
CHELTENHAM	66.6	-1.8	88	10+	43	26			4.41	-.83	1.31	22				7	6	1
CHESTERTOWN	68.3	-0.1	91	13	46	26	1		1.44	-2.00	.64	10				5	3	
CREWSVILLE BRIDGEPORT	65.4	-0.5	90	9+	37	26	2		1.96	-1.13	.66	10				10	3	
CLEAR SPRING																		
CLEAR SPRING	66.3	0.0	90	9	40	25	1		2.15	-.93	.78	10				8	3	
COLEMAN	71.0	1.6	94	18	41	22	7		1.85	-1.62	1.04	10				4	2	1
COLLEGE PARK UNIV OF MD	67.8	-0.3	91	9+	41	26	3		2.87	-.57	1.06	30				7	4	1
CONOWINGO DAM	66.0	-0.6	88	18	40	25			2.43	-.74	1.02	10				7	3	1
CONOWINGO STATE POLICE	66.2		91	13	39	25	2		2.41		.99	10				7	3	
CRISFIELD																		
CRISFIELD	72.9	0.6	90	1	52	23	1		3.33	-.12	2.18	30				4	3	1
CUMBERLAND	65.7	-0.3	90	13	37	26	1		5.33	2.61	1.36	21				11	6	3
CUMBERLAND POLICE BARRACKS	63.8		89	13	34	27	1		2.75		.72	8+				6	4	
DISTRICT HEIGHTS	67.6		89	9+	45	23+			4.51		1.72	5				6	2	1
EASTON	67.2	-1.7	88	9+	43	25+			1.92	-1.47	.85	22				6	2	
ELKTON																		
ELKTON	66.6	-1.5	92	13	40	26	2		2.22	-.99	1.52	30				2	2	1
EMMITSBURG	67.0	0.7	88	9+	46	25+			1.92	-1.80						9		
FALLSTON	67.3	0.8	90	13	44	23+	1		2.51	-1.46	.96	10				7	3	
FORT GEORGE G MEADE	62.8	-6.0	87	13	37	26			2.67	-1.16	1.07	10				6	3	1
FREDERICK	65.9	-1.8	91	13	36	26+	2		2.04	-1.34	.92	10				6	3	
FREDERICK POLICE BARRACKS																		
FREDERICK POLICE BARRACKS	67.4		91	9	43	23+	2		3.20		1.30	30				6	3	2
FREDERICK WB AIRPORT	66.8		91	9	40	25	1		2.09		.72	21				8	3	
FRIENDSVILLE	60.6	-1.9	89	8	31	26+		2	3.83	.84	1.72	21				10	4	1
FROSTBURG	62.6	-1.9	85	13	35	26			3.76	.59	1.63	21				8	4	1
GLENN DALE BELL STATION	66.8	-1.4	90	9+	39	26	2		2.85	-1.06	.98	10				8	3	
GREAT FALLS																		
GREAT FALLS	67.6 m	-0.6	92	13	43	1+	2		2.71	-.79	.96	22				6	3	
GRONOVNER LANE	66.6		90	9	41	26	1		2.48		1.20	10				4	3	1
HAGERSTOWN	66.7		91	9	40	26	2		1.51		.63	10				4	2	
HARCOCK FRUIT LABORATORY	64.0	-3.1	90	14	37	23+	1		3.20	-.33	1.30	10				9	4	1
HUNTINGTOWN	67.3	-0.8	88	9	43	26+			2.99	-.51	.92	10				7	4	
KEDYSVILLE																		
KEDYSVILLE	67.4	-0.3	93	9+	37	26+	3		2.00	-1.23	.83	21				6	3	
LA PLATA	68.0	-1.8	91	9	44	26	1		3.20	-.54	1.60	10				5	3	2
LEONARDTOWN	67.3		89	9+	37	26			2.56		1.13	19				7	4	1
MARYLAND LINE	67.5	0.4	91	13	40	25	1		1.56	-2.38	.94	10				3	2	
MILLINGTON	68.2	-0.4	94	13	41	26	4		1.35	-2.20	.69	10				4	3	
OAKLAND																		
OAKLAND	61.5	0.6	83	3+	29	27		2	3.45	.21	1.00	10+				10	3	2
OCEAN CITY U S C G	69.0		88	19+	51	4+			8.15		3.90	9				8	4	4
OWENS FERRY LANDING	67.6	-1.4	90	13	44	26+	1		3.56	-.38	1.34	10				8	4	1
OXFORD	66.8	-2.1	84	6+	50	27			2.89	-.25	1.00	22				6	4	1
PICARDY	65.5	-0.5	86	9	36	26			4.00	1.21	1.10	21				6	7	1
PIKESVILLE																		
PIKESVILLE	66.6		89	4+	44	25+			2.39		1.03	10				7	2	1
PRETTYBOY DAM	66.0	-0.6	88	13	40	25			2.00	-2.03	.70	10				5	3	
RANDALLSTOWN POLICE BARRACKS	65.9		89	9+	41	16+			1.75		.87	10				4	2	
RIDGELY	67.4	-1.4	92	9	42	26	2		1.44	-2.08	.43	30				6	4	
RIVERDALE	66.7		91	9+	39	26	3		2.90		.92	10				6	4	
ROCK HALL																		
ROCK HALL	67.8	-1.8	87	9	44	27			1.59	-2.08	.85	10				4	3	
ROCKVILLE	67.4		89	9	44	22			1.94		.72	10				5	3	
ROYAL OAK	68.8		87	8+	45	26+			3.93		1.19	19				7	5	2
SALISBURY	68.0	-1.7	90	9	44	2	1		4.54	.68	1.56	30				5	5	2
SALISBURY POLICE BARRACKS	67.6		90	9	44	2+	1		2.93		1.19	30				5	4	1
SALISBURY MUNICIPAL AIRPORT																		
SALISBURY MUNICIPAL AIRPORT	66.8		89	9	44	2			4.63		1.93	30				7	4	2
SOLOMONS	71.6	-0.5	89	9	54	23+			1.27	-1.73	.71	22				6	1	
TAKOMA PARK BALTO AVE	67.4	-0.5	88	9+	47	23+			4.47	.84	2.10	30				5	3	2
TAKOMA PARK MISS AVE	66.8	-1.4	89	9	45	26+			3.30	-.58	1.00	30				6	5	1
TOKOLOWAY	64.0	-1.8	89	13	35	25			5.90	2.98	2.40	29				6	6	1
TOWSON																		
TOWSON	66.2		92	9+	40	22	2		2.10	-1.20	.79	10				8	2	
UNIONVILLE	63.8	-1.9	88	13	36	26+			1.87	-1.05	.56	10				6	4	
WALDORF	66.9		90	9+	42	26+	4		3.85		1.90	10				8	5	1
WATERLOO POLICE BARRACKS	67.0		91	13	43	26	2		2.18		1.00	10				6	2	1
WEST LANHAM HILLS	59.0 m										1.36	10						
WESTERN PORT																		
WESTERN PORT	65.6	-1.1	90	3+	36	26	2		4.09	1.29	1.65	21				8	6	1
WESTMINSTER	65.8	-1.7	90	9+	39	25	2		1.29	-2.52	.64	10				6	2	
WHITE HALL	65.2		88	13	39	26+			2.28		1.06	10				6	3	1
WOODSTOCK COLLEGE	65.4	-0.9	90	9+	40	27	2		2.49	-1.07	1.10	10				7	3	1
DISTRICT OF COLUMBIA																		
BRIGHTWOOD	68.6		89	10+	48	26										7	4	
DALECARLIA RESERVOIR	68.6 m		91	9	43	26	5		3.21		.88	10				8		
NATIONAL ARBORETUM	69.1		92	13+	42	26	6		4.14		1.50	10				7		2
U S SOLDIERS HOME	67.6 m		89	10+	46	23			3.24		.90	22	</					

CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

Table 2—Continued

SEPTEMBER 1948

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
DELAWARE																		
BRIDGEVILLE	66.6	-2.0	88	9	45	2+			1.87	-1.53	.56	10				7	3	
DOVER	68.2	-0.6	90	9+	41	23	2		1.03	-2.70	.50	30				8	1	
GEORGETOWN	66.2		90	9	40	27	1		1.96		1.15	22				6	3	1
LEWES	66.8		90	9	45	29	1		1.33		.31	19				8	2	
MILFORD	68.2	-1.1	91	9	45	25	3		1.63	-1.92	.36	11				7	3	
MILLSBORO																		
MILLSBORO	67.7	-1.4	89	8+	42	2			4.19	.64	1.80	21				5	4	1
NEWARK COLLEGE FARM	66.3	-0.1	90	13	38	26	1		2.21	-1.34	1.40	30				3	2	1
SMYRNA	67.4		90	9+	42	25	2		1.33		.55	10				5	5	
WILMINGTON WB N CASTLE	66.8		90	13	44	23+	1		1.87		.63	7				6	6	
WILMINGTON PORTER RESERVOIR	66.7	-1.4	89	13	45	22+			2.09	-1.58	.69	30				9	3	
DELAWARE SECTION																		
DELAWARE SECTION	67.1	-1.6							1.95	-1.49								
	66.9	-0.9							2.79	-.57								

TABLE 4 HOURLY PRECIPITATION

MARYLAND AND DELAWARE
SEPTEMBER 1948

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																									
LUKE								.01	.01	.01	.01														.04
-4th-																									
MARYLAND																									
GRANTSVILLE														.08	.01										.09
SINES														*	*	.70									.70
DELAWARE																									
WILMINGTON AIRPORT 6									*	*	*	*	*	.04	*	*	*	*	*	.16					
-6th-																									
MARYLAND																									
BELTSVILLE																	.01		.01					.01	.03
BETHESDA																						.01	.05		.06
FREDERICK WB AIRPORT 6	*	*	*	*	*	*	*	.05	*	*	*	*	*	.02	*	*	*	*	*	.01					.07
GLEN ECHO																							.03	.05	.07
GRANTSVILLE																							.04	.07	.07
LUKE																							.02	.06	.08
SINES																							.02	.06	.02
WASHINGTON WB CITY DC																							.02	.03	.03
-7th-																									
MARYLAND																									
ABERDEEN PROVING GROUND						.01																		.02	
ANNAPOLIS U S NAVAL ACAD			.01	.04	.01	.02																			.08
BALTIMORE WB AIRPORT 6			*	*	*	*	*	.19																	.03
BALTIMORE WB CITY				.02	.01																				.30
BETHESDA	.04	.08	.02	.06	.01		.01	.07	.01																.30
COCKEYSVILLE			.21	.07	.02																				.33
GLEN ECHO	.03	.06	.02	.07	.02		.01	.08	.02		.01	.01						.01	.01						.37
GRANTSVILLE										.01	.03	.10	.01				.01	.01						.12	
LEONARDTOWN							.07	.05									.20	.15						.39	
LUKE	.02		.02																						
PATUXENT RIVER 6			*	*	*	*		.02	*	*	*	*	*	.21	*	*	*	*	*	.49					
SALISBURY MUNICIPAL AIRPORT 6																								.03	
SINES																.03	.03								
UNIONVILLE															.03	.02	.01	.01						.07	
WASHINGTON WB CITY DC	.01	.13	.03	.01			.06	.07	.01															.32	
DELAWARE																									
WILMINGTON AIRPORT 6									*	*	*	*	*	.45	*	*	*	*	*	.13	*	*	*	*	
-8th-																									
MARYLAND																									
ANNAPOLIS U S NAVAL ACAD												.01	.01											.02	
BALTIMORE WB AIRPORT 6														*	*	*	*	*	1.38	*	*	*	*	.02	
BALTIMORE WB CITY			.02																.01	.01				.04	
GRANTSVILLE				.02		.01				.02														.05	
PATUXENT RIVER 6														*	*	*	*	*	.45						
DELAWARE																									
WILMINGTON AIRPORT 6	*	.05													*	*	*	*	*	.15					
-9th-																									
MARYLAND																									
ABERDEEN PROVING GROUND																			.01	.02	.01			.04	
ANNAPOLIS U S NAVAL ACAD																				.03	.03	.05		.08	
BALTIMORE WB AIRPORT 6	*	.02												*	*	*	*	*	.03					.26	
BALTIMORE WB CITY																			.07	.14	.04	.01		.37	
BELTSVILLE															.01	.26	.07	.01	.01				.01	.26	
BETHESDA																.02	.47	.02	.01					.52	
COCKEYSVILLE																			.37					.37	
FREDERICK WB AIRPORT 6														*	*	*	*	*	.48	*	*	*	*	.65	
GLEN ECHO												.16	.03	.01			.05	.03	.02					.65	
GRANTSVILLE														.05	.05								.01	.01	.21
LUKE														.04	.01									.11	
SINES																								.05	
WASHINGTON WB CITY DC																			.40	.17	.05			.62	
DELAWARE																									
WILMINGTON AIRPORT 6			*	*	*	*	*	.01																	
-10th-																									
MARYLAND																									
ABERDEEN PROVING GROUND							.48	.01							.19	.18	.06	.06	.01					1.04	
ANNAPOLIS U S NAVAL ACAD									.02	.10	.04	.12	.08	.06	.07	.06	.05					.01		.70	
BALTIMORE WB AIRPORT 6	*	.14	*	*	*	*	.08	*	*	*	*	*	.34	*	*	*	*	*	.25					.56	
BALTIMORE WB CITY							.02	.01	.10	.18	.13	.06	.03											.57	
BELTSVILLE		.02	.02	.01	.01	.02				.02	.18	.20	.08	.02	.01									.48	
BETHESDA										.02	.26	.10	.03	.04	.03									.05	
COCKEYSVILLE																			.01	.02	.02			.05	

See reference notes following Station Index

TABLE 4

HOURLY PRECIPITATION

MARYLAND AND DELAWARE
SEPTEMBER 1948

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	
SINES			.01									.03		.02	.04	.04		.06	.04	.01	.01		.01	.18	
UNIONVILLE																								.12	
-30th-																									
MARYLAND																									
ABERDEEN PROVING GROUND		.01	.01	.02	.19	.13	.02	.05	.12	.73	.12		.01	.05	.08	.01	.01							1.55	
ANNAPOLIS U S NAVAL ACAD	.01	.06	.02	.02			.02	.03	.04	.20	.03	.01			.03									.45	
BALTIMORE WB AIRPORT 6		*	*	*	*	*	*	*	*	*	*	*	*	.66	*	*	*	*	*	.12				.80	
BALTIMORE WB CITY		.01	.06	.04	.01	.35	.10	.03	.13	.02	.01	.04												.92	
BELTSVILLE	.01	.06	.01	.02	.01	.23	.08	.02	.04	.01	.04	.03												.49	
BETHESDA	.01	.02	.01	.02	.05	.03	.16	.20	.04	.01	.01	.04	*	.02										.60	
COCKEYSVILLE	*	*	*	*	*	*	*	.19	*	*	*	*	*	.02										.41	
FREDERICK WB AIRPORT 6	.01	.05	.01	.01	.18	.06	.05	.04																.48	
GLEN ECHO	-	-	-	-	-	-	.01	.38	.01		.01	.04		.01										.22	
LEONARDTOWN																								.17	
LUKE								.02	*	*	*	*	*	1.84	*	*	*	*	*	.01				.98	
PATUXENT RIVER 6																									
SALISBURY MUNICIPAL AIRPORT 6								.08	*	*	*	*	*												
SHARPTOWN	.05	.11	.05	.01																					
UNIONVILLE	.03	.02	.03	.01	.01	.03	.04																		
WASHINGTON WB CITY DC		.05	.05	.02		.49	.25	.02	.08	.01	.01														
DELAWARE																									
WILMINGTON AIRPORT 6			*	*	*	*	*	.03	*	*	*	*	*	.29	*	*	*	*	*	.02					

See reference notes following Station Index

DAILY TEMPERATURES

MARYLAND AND DELAWARE

SEPTEMBER 1948

Table 5.

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	
MARYLAND																																
ABERDEEN PROVING GROUNDS	MAX	78	78	81	81	86	85	82	86	89	76	79	88	89	81	75	74	75	87	82	87	68	70	70	64	70	73	77	76	77	72	78.6
	MIN	50	46	52	59	63	60	68	63	67	60	54	57	62	57	50	51	51	63	65	62	55	46	45	48	43	44	45	48	48	59	
ANNAPOLIS U S NAVAL ACAD	MAX	72	75	78	79	81	82	79	79	82	72	76	83	82	79	72	73	73	87	81	86	75	66	66	62	66	70	73	70	74	72	75.5
	MIN	58	58	63	68	73	70	69	71	65	62	62	64	67	69	58	60	64	66	69	68	58	55	50	56	53	54	54	57	58	65	
BALTIMORE WB AIRPORT	MAX	79	78	81	84	86	87	82	86	91	74	81	87	91	82	76	76	78	88	83	87	77	70	69	64	69	73	77	74	76	72	79.3
	MIN	54	54	59	66	69	67	69	70	70	62	59	62	67	63	55	57	64	63	68	68	58	50	48	55	49	51	51	54	55	63	
BALTIMORE WB CITY	MAX	78	78	81	83	85	84	81	85	92	74	80	87	93	83	78	78	78	88	83	86	75	70	67	63	68	72	76	75	74	79.0	
	MIN	56	57	62	68	71	68	71	71	72	63	60	63	68	65	58	59	64	65	69	71	59	52	50	56	51	51	55	56	64		
BALTIMORE HAMILTON	MAX	79	77	81	84	81	79	85	81	86	79	86	89	86	79	76	77	87	82	86	82	69	70	64	69	74	76	74	77	71	79.2	
	MIN	49	49	54	59	65	65	67	66	68	62	56	58	61	69	51	53	54	58	63	64	59	47	46	54	44	46	41	50	51	63	
BATTERY PARK	MAX	76	78	82	83	85	84	80	85	90	84	79	90	87	75	78	77	87	82	87	79	68	68	64	68	72	75	71	73	75	78.7	
	MIN	45	53	58	63	68	65	63	65	63	52	52	54	54	48	48	48	56	60	58	52	44	43	43	49	40	43	48	51	72		
BELTSVILLE	MAX	79	76	76	81	84	85	82	81	86	91	86	79	85	89	81	75	75	77	82	88	67	69	68	63	68	72	76	73	77.9		
	MIN	47	42	49	56	60	59	66	63	63	65	50	53	57	66	49	47	53	61	64	63	66	51	46	52	48	49	40	45	47	57	
BENSON	MAX	77	72	79	82	85	81	80	84	88	83	80	85	89	82	77	75	78	88	87	84	78	67	69	64	68	74	71	72	75	78.2	
	MIN	47	40	49	55	59	59	63	62	63	60	51	54	57	66	47	47	49	56	60	59	43	42	49	40	42	40	44	47	60		
BLACKWATER	MAX	77	79	81	83	87	95	89	91	88	81	88	88	87	79	78	78	85	85	90	87	69	71	69	70	73	75	78	75	81.5		
	MIN	58	50	54	60	69	63	72	70	72	66	60	67	70	56	50	54	66	67	68	57	50	55	54	50	48	56	55	67			
BRIGHTWOOD DC	MAX	79	76	78	81	83	84	82	79	85	89	86	78	86	89	81	74	76	76	86	83	88	69	66	67	64	69	74	70	75	77.4	
	MIN	53	52	58	63	66	65	67	69	69	66	60	65	70	56	55	60	64	67	69	53	49	56	52	48	49	53	56	62			
BROOKSIDE MANOR	MAX	76	80	83	86	85	86	82	87	92	77	81	87	91	84	75	77	79	89	86	90	82	69	68	65	68	72	77	72	76	75	79.9
	MIN	49	44	51	57	59	62	66	65	62	62	52	55	56	58	48	48	55	59	63	62	60	53	44	50	49	41	41	47	49	63	
CAMBRIDGE	MAX	81	84	85	89	87	90	87	90	91	76	80	88	91	84	77	81	77	88	75	91	79	69	69	67	70	74	75	79	76	80.8	
	MIN	55	47	49	57	64	66	67	67	63	60	57	53	60	67	54	47	50	60	63	63	69	52	46	52	48	46	44	50	47	62	
CHARLOTTE HALL	MAX	75	78	81	82	83	82	85	83	81	68	74	84	89	84	75	80	86	88	87	85	64	68	65	69	70	72	69	75	77	78.6	
	MIN	51	49	54	59	65	60	64	65	68	61	56	57	61	66	49	58	56	56	62	64	60	53	46	51	50	45	52	56	62		
CHELTERNEAM	MAX	78	75	79	81	83	84	83	80	83	88	88	79	85	88	81	74	78	76	86	84	88	69	67	67	64	67	72	71	77.4		
	MIN	48	45	52	58	65	59	64	66	67	66	53	56	52	63	52	49	58	61	59	65	66	52	47	50	43	46	51	53	63		
CHESTERTOWN	MAX	77	79	84	83	86	87	84	88	89	71	80	86	91	82	77	78	78	86	83	87	73	72	70	66	70	75	79	74	79	79.7	
	MIN	53	51	51	62	65	62	68	66	70	62	57	59	64	63	53	53	54	63	66	65	57	48	48	50	47	46	49	50	61		
CHEWVILLE BRIDGEPORT	MAX	76	77	81	83	83	81	80	85	90	69	78	87	90	80	75	79	80	89	82	86	75	68	67	65	65	73	76	73	75	73	78.0
	MIN	43	43	53	63	60	60	66	64	63	60	50	53	59	62	44	48	54	62	62	61	53	48	41	52	39	37	38	43	47	57	
CLEAR SPRING	MAX	76	78	81	82	82	80	79	85	90	72	78	79	89	79	78	77	80	81	87	84	76	70	68	62	70	72	77	73	78	77.9	
	MIN	51	45	57	62	63	64	66	66	61	60	52	52	59	68	50	52	50	55	67	60	55	50	46	52	40	41	42	46	50	58	
COLEMAN	MAX	87	88	88	85	87	89	88	91	92	87	85	93	93	90	86	86	81	94	85	90	80	76	76	67	73	79	83	76	75	74	84.1
	MIN	54	52	55	61	64	62	66	65	68	61	56	61	64	68	56	55	54	63	66	64	60	41	49	55	47	48	50	53	55	60	
COLLEGE PARK UNIV OF MD	MAX	78	79	83	84	85	83	80	85	91	89	85	84	91	90	81	76	78	88	85	89	86	69	69	68	67	72	76	72	74	75	80.8
	MIN	51	44	52	58	62	60	67	65	63	62	53	54	57	66	50	48	55	63	64	63	51	53	47	53	41	44	48	50	62		
CONOWINGO DAM	MAX	75	77	79	84	82	81	83	87	72	79	85	87	72	79	85	87	75	74	74	84	84	64	69	64	69	78	78	75	70	77.9	
	MIN	53	47	51	58	62	60	65	64	62	60	53	54	60	63	52	50	50	57	62	61	59	47	47	49	40	42	43	45	48	59	
CONOWINGO STATE POLICE	MAX	78	79	82	82	81	86	80	86	90	83	80	86	91	84	80	76	75	88	84	87	80	70	70	67	70	71	80	78	78	70	79.7
	MIN	50	44	48	56	59	59	65	62	64	59	51	58	58	62	48	47	55	60	59	60	44	44	52	39	42	43	46	46	56		
CRISFIELD	MAX	90	87	85	84	89	86	85	88	89	87	85	84	88	87	85	83	82	82	81	87	85	82	79	77	74	73	72	71	80	79	82.9
	MIN	60	58	60	65	70	67	72	73	73	66	63	63	69	74	59	59	68	67	70	68	57	52	57	54	54	58	62	56	62		
CUMBERLAND	MAX	77	81	86	87	86	82	83	83	89	81	90	88	90	84	78	78	83	85	82	83	77	64	65	61	60	71	75	69	68	72	78.3
	MIN	44	43	52	60	59	63	65	66	64	57	51	52	51	62	52	49	52	58	63	63	57	51	41	51	41	37	39	43	50	56	
CUMBERLAND POLICE BRKS	MAX	79	79	85	85	84	82	85	85	80	87	80	88	90	86	83	80	82	85	83	88	80	67	66	65	60	72	73	70	70	70	79.1
	MIN	38	38	48	56	54	56	55	62	61	52	50	51	51	55	40	41	40	34	60	64	50	35	47	45	33	34	39	46	52	48.6	
DALECARLIA RESERVOIR DC	MAX	78	78	82	84	86	85	83	85	91	90	79	86	90	90	80	77	76	90	89	88	87	67	68	72	71	71	75	73	75	81.0	
	MIN	47	47	62	70	62	65	68	66	63	56	60	66	66	69	49	52	56	61	63	63	62	53	45	50	48	43	44	48	52		
DISTRICT HEIGHTS	MAX	75	78	83	84	85	82	81	88	89	80	79	84	89	81	75	76	77	87	83	88	80	68	69	64	68	71	74	70	75	76	78.6
	MIN	49	48	53	62	65	60	64</																								

DAILY TEMPERATURES

MARYLAND AND DELAWARE

Table 5-Continued

SEPTEMBER 1948

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	
OWINGS FERRY LANDING	MAX	77	78	81	83	84	84	82	83	89	80	80	85	90	83	74	75	76	87	84	89	80	68	68	65	68	71	72	71	74	77	78.6
	MIN	50	48	54	61	66	59	64	66	66	60	56	58	63	65	51	50	60	61	66	65	58	52	45	51	49	44	44	50	52	63	56.6
OXFORD	MAX	78	77	78	82	79	84	79	79	84	82	75	83	84	82	78	76	75	81	79	83	82	65	70	68	63	72	73	71	77	75	77.1
	MIN	58	57	58	64	68	63	67	69	70	62	61	64	69	69	57	55	56	66	67	68	63	53	51	56	51	51	50	54	54	63	60.5
PICARDY	MAX	78	76	82	84	82	82	80	82	86	76	76	84	86	84	76	78	86	84	82	82	76	76	72	70	66	70	72	70	72	72	78.1
	MIN	42	43	55	60	61	65	66	65	62	59	51	55	58	61	45	48	54	62	63	61	56	50	39	40	44	36	39	40	50	56	52.9
PIKESVILLE	MAX	78	76	79	89	83	80	79	84	88	83	75	86	89	86	76	74	75	85	80	81	77	69	67	69	67	72	75	75	75	78.2	
	MIN	48	47	54	53	63	62	66	62	64	63	54	56	64	61	51	49	56	61	64	65	56	47	45	54	44	44	45	46	48	55.0	
PRETTYBOY DAM	MAX	76	76	80	78	83	80	80	82	86	83	76	82	88	86	77	75	74	81	80	82	78	68	69	63	70	74	78	76	71	77.8	
	MIN	46	48	53	58	62	62	61	63	65	59	53	54	62	66	49	51	52	57	61	64	59	43	42	51	40	45	44	50	59	54.3	
RANDALLSTOWN POLICE BRKS	MAX	78	78	81	82	83	81	78	84	89	85	78	83	89	87	79	82	76	85	82	84	80	68	68	65	67	72	75	72	75	79	78.8
	MIN	44	48	52	57	62	60	65	63	64	60	54	52	51	61	47	41	46	60	60	60	61	47	43	52	42	42	41	48	49	58	53.0
RIDGELY	MAX	78	81	84	85	87	88	87	88	92	85	80	87	90	84	78	79	79	87	84	88	82	72	71	66	69	74	78	73	79	75	81.0
	MIN	49	47	50	58	62	57	65	62	65	59	56	55	61	65	48	47	50	59	61	62	57	46	44	48	43	42	43	46	45	59	53.7
RIVERDALE	MAX	77	80	84	85	87	85	83	86	91	75	81	87	91	83	77	78	79	89	84	90	75	71	69	65	69	73	77	71	77	75	79.8
	MIN	45	42	49	56	60	58	66	64	63	64	52	53	56	58	46	46	53	63	63	62	59	52	43	47	48	39	40	46	49	62	53.5
ROCK HALL	MAX	76	77	80	83	84	85	82	84	87	82	78	84	86	83	75	78	76	83	82	86	79	70	70	66	68	74	78	75	78	75	78.8
	MIN	54	50	54	61	64	60	68	65	67	70	54	65	64	59	52	50	55	65	65	66	59	47	47	53	46	45	44	48	47	63	56.9
ROCKVILLE	MAX	75	75	79	81	83	82	83	89	86	77	84	88	86	78	75	75	86	84	88	84	66	66	65	61	71	75	72	77	77	75	78.3
	MIN	51	48	55	62	64	60	60	67	66	61	56	56	62	53	52	59	61	65	64	59	44	45	53	48	48	48	52	55	62	56.4	
ROYAL OAK	MAX	76	79	82	84	85	85	83	87	87	82	78	84	87	81	76	79	77	85	83	87	80	69	70	65	67	75	77	75	79	77	79.4
	MIN	56	51	56	61	67	60	68	67	67	61	58	64	68	69	56	50	56	66	65	64	59	52	48	55	50	45	45	51	49	63	58.2
SALISBURY	MAX	81	81	84	85	85	87	85	86	90	87	75	85	87	87	83	80	77	84	83	88	81	76	73	70	68	73	72	75	79	73	80.7
	MIN	52	44	46	53	62	58	64	62	63	65	59	53	53	64	53	47	47	60	60	63	63	55	47	52	50	47	47	54	61	64	55.3
SALISBURY POLICE BRKS	MAX	81	81	84	85	85	87	85	86	90	82	77	84	87	85	77	78	78	85	82	88	83	68	71	67	68	71	71	75	80	74	79.8
	MIN	52	44	44	54	62	56	63	62	64	63	58	52	60	64	52	47	47	59	64	62	68	55	48	50	51	47	47	54	47	63	55.3
SALISBURY MUNICIPAL AP	MAX	77	81	83	86	84	86	86	86	89	82	76	84	87	83	76	78	77	84	81	87	75	70	71	65	68	71	70	73	78	73	78.9
	MIN	52	44	48	53	63	57	63	62	63	59	54	54	61	61	50	47	48	57	63	63	56	50	47	50	50	49	49	53	52	65	54.8
SOLOMONS	MAX	77	78	81	85	84	84	85	88	89	88	80	86	88	87	77	78	78	86	84	88	85	66	67	69	73	75	72	74	76	75	79.9
	MIN	58	60	63	69	72	68	68	70	70	64	63	62	67	72	60	60	67	65	68	69	63	57	54	58	56	54	55	58	61	67	63.3
TAKOMA PARK BALTO AVE	MAX	76	78	81	81	80	80	78	84	84	78	86	88	81	75	76	76	87	81	86	76	68	67	63	69	72	75	69	71	77	75	77.5
	MIN	50	51	55	61	65	63	65	66	67	61	56	67	63	67	52	53	57	62	60	66	58	50	46	47	48	49	51	55	59	57.2	
TAKOMA PARK MISS AVE	MAX	73	79	82	84	83	79	83	89	74	77	85	88	80	74	76	78	86	82	87	77	67	68	63	68	72	75	70	75	73	77.7	
	MIN	50	46	52	59	63	60	66	65	66	62	55	56	60	67	50	50	55	60	63	64	58	52	48	52	49	45	45	49	51	62	55.9
TONOLWAY	MAX	79	80	79	87	87	82	82	88	74	74	86	89	86	82	82	84	82	81	81	78	70	75	77	75	70	60	54	64	78	78.4	
	MIN	61	41	44	56	64	61	66	66	61	56	56	48	48	43	43	47	45	53	61	55	56	49	44	37	35	37	41	36	44	49.7	
TOWSON	MAX	73	78	80	81	84	82	79	83	92	86	80	87	92	86	77	76	77	88	81	86	67	69	69	62	70	74	77	74	78	78.7	
	MIN	46	44	51	56	64	63	67	62	61	52	55	58	64	47	48	54	61	60	63	60	40	43	50	43	43	41	46	46	59	53.8	
UNIONVILLE	MAX	72	79	81	78	77	85	82	86	87	69	77	83	88	82	77	77	79	83	83	78	78	70	71	57	69	77	78	69	68	75.8	
	MIN	41	41	49	56	58	57	65	62	59	63	49	50	55	61	41	45	53	58	59	58	55	49	40	52	40	36	36	40	57	50.9	
U S SOLDIERS HOME DC	MAX	75	78	81	83	84	84	80	85	89	68	79	85	89	82	75	77	77	88	83	89	69	68	68	64	69	73	76	70	75	78.0	
	MIN	50	51	55	60	64	63	65	65	66	65	55	58	61	67	53	52	57	60	63	64	66	50	46	47	49	48	49	51	55	59	57.1
WALDORF	MAX	78	80	84	85	83	80	83	90	85	81	85	90	90	80	78	78	88	83	90	85	67	68	66	68	70	72	71	76	78	79.9	
	MIN	48	43	49	57	65	57	63	64	65	60	51	52	56	64	49	46	54	60	60	60	60	51	44	50	48	42	42	48	50	62	53.9
WASHINGTON WB CITY DC	MAX	77	80	83	82	86	86	81	86	91	69	79	87	91	81	77	80	78	85	84	80	75	70	70	64	66	74	78	73	77	76.3	
	MIN	53	52	59	67	70	66	68	70	68	62	59	60	65	66	58	64	65	68	66	66	58	54	49	57	52	48	48	53	57	66	60.0
WATERLOO POLICE BRKS	MAX	78	79	82	84	84	85	85	87	90	68	76	81	81	89	80	75	78	86	86	88	85	73	72	68	68	72	76	72	75	77.7	
	MIN	51	45	55	55	59	59	63	63	64	62	53	53	52	61	52	49	53	60	62	62	60	47	45	54	48	43	44	47	62	54.3	
WEST LANHAM HILLS	MAX	77	78	81	85	85	83	81	86	90	75	80	86	81	83	76	77	77	89	85	90	80	80	70	65	65	65	65	62	69	75.2	
	MIN	47	45	52	59	64	59	66	63	66	62	53	55	60	65	50	48	56	63	69	64	58	44	51	44							

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STATION	INDEX NO.	COUNTY	DRAINAGE	LAT.	LONG.	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	58	58	W M RAY	2 3 5		
DELAWARE CITY REEDY POINT	2625	NEW CASTLE	COASTAL	39 34	75 35	10	EST	4P	4P	62	62	J E MADEN	2 3 5		
DOVER	2730	KENT	COASTAL	39 10	75 32	34	EST	4P	4P	61	61	F J BOWERY	2 3 5		
GEORGETOWN	3570	SUSSEX	CHESAPEAKE	38 39	75 27	50	EST	6P	6P	3	3	E F TURNER	2 3 5		
LEWES	5320	SUSSEX	COASTAL	38 46	75 08	10	EST	8P	8P	4	4	E E LYNCH	2 3 5		
MILFORD	5915	SUSSEX	COASTAL	38 55	75 25	20	EST	6P	6P	53	53	L G MARKERT	2 3 5		
MILLSBORO	6020	SUSSEX	COASTAL	38 35	75 19	20	EST	6P	6P	56	56	P C TOWNSEND	2 3 5		
NEWARK PUMPING STATION	6405	NEW CASTLE	COASTAL	39 40	75 45	110	EST	MID	MID	17	17	G C PRICE	2 3 5		
NEWARK COLLEGE FARM	6410	NEW CASTLE	COASTAL	39 39	75 46	110	EST	6P	6P	36	36	FRED COLLINS	2 3 5		
SMYRNA	8510	KENT	COASTAL	39 15	75 36	45	EST	6P	6P	1	1	C M EWING	2 3 5		
WILMINGTON WB NEW CASTLE	9595	NEW CASTLE	COASTAL	39 40	75 36	73	EST	MID	MID	1	1	U S WEATHER BUREAU	2 3 4 5		
WILMINGTON CITY HALL	9600	NEW CASTLE	COASTAL	39 45	75 33	99	EST	5P	5P	55	55	STREET DEPARTMENT	2 3 5		
WILMINGTON PORTER RESERVOIR	9605	NEW CASTLE	COASTAL	39 46	75 32	260	EST	MID	MID	37	37	WATER DEPARTMENT	2 3 5		
DISTRICT OF COLUMBIA															
BRIGHTWOOD	1135		POTOMAC	38 57	77 01	260	EST	8A	8A	2	2	BENJ C CRUCKSHANKS	2 3 5		
DALECARLIA RESERVOIR	2325		POTOMAC	38 56	77 07	146	EST	2P	2P	3	3	JAMES L KERRICK	2 3 5		
NATIONAL ARBORETUM	6350		POTOMAC	38 54	76 58	70	EST	3P	3P	3	3	JAMES R HARLOW	2 3 5		
U S SOLDIERS HOME	9035		POTOMAC	38 56	77 01	230	EST	7A	7A	4	4	R C PRATT	2 3 5		
WASHINGTON WB CITY	9290		POTOMAC	38 54	77 03	72	EST	MID	MID	78	78	U S WEATHER BUREAU	2 3 4 5		
MARYLAND															
ABERDEEN PROVING GROUND	0015	HARFORD	CHESAPEAKE	39 28	76 10	62	EST	MID	MID	30	30	U S ARMY	2 3 5		
ANNAPOLIS U S NAVAL ACADEMY	0185	ANNE ARUNDEL	CHESAPEAKE	38 59	76 28	40	EST	MID	MID	83	83	U S NAVY	2 3 4 5		
BALTIMORE WB AIRPORT	0465	BALTIMORE	CHESAPEAKE	39 15	76 32	16	EST	MID	MID	14	14	U S WEATHER BUREAU	2 3 4 5		
BALTIMORE WB CITY	0470	BALTIMORE	CHESAPEAKE	39 17	76 37	14	EST	MID	MID	78	78	U S WEATHER BUREAU	2 3 4 5		
BALTIMORE HAMILTON	0475	BALTIMORE	CHESAPEAKE	39 23	76 33	355	EST	6P	6P	1	1	R G BAUER JR	2 3 5		
BATTERY PARK	0565	MONTGOMERY	POTOMAC	39 00	77 07	338	EST	5P	5P	3	3	RAY K LINSLEY	2 3 5		
BELTSVILLE	0700	PRINCE GEORGES	POTOMAC	39 02	76 53	120	EST	8A	8A	11	11	J B SHEPHERD	2 3 4 5 6		
BENSON POLICE BARRACKS	0732	HARFORD	CHESAPEAKE	39 30	76 23	365	EST	5P	5P	1	1	MD STATE POLICE	2 3 5		
BETHESDA	0795	MONTGOMERY	POTOMAC	38 58	77 07	220	EST	5P	5P	1	1	U S ENGINEERS	3 4		
BLACKWATER	0915	DORCHESTER	CHESAPEAKE	38 26	76 08	5	EST	4P	4P	8	8	NATL WILDLIFE REFUGER	2 3 5 6		
BRIGHTON DAM	1125	MONTGOMERY	PATUXENT	39 12	77 01	320	EST	8A	8A	3	3	FRED S GILPIN	3		
BROOKDALE	1170	MONTGOMERY	POTOMAC	38 57	77 06	260	EST	7P	7P	3	3	B FRANCIS DASHIELL	3		
BROOKSIDE MANOR	1180	PRINCE GEORGES	POTOMAC	38 58	76 58	50	EST	6P	6P	3	3	RALPH HIGGS	2 3 5		
BURNT MILLS RESERVOIR	1278	MONTGOMERY	POTOMAC	39 02	77 00	220	EST	8A	8A	3	3	J W JESTER	3		
CAMBRIDGE	1385	DORCHESTER	CHESAPEAKE	38 34	76 09	15	EST	7P	7P	54	54	D'ARCY HARDING	2 3 5		
CHARLOTTE HALL	1685	ST MARYS	PATUXENT	38 28	76 44	167	EST	6P	6P	27	27	J B TENNYSON	2 3 5		
CHRELTENHAM	1710	PRINCE GEORGES	PATUXENT	38 44	76 51	230	EST	7A	7A	48	48	U S MAGNETIC OBS	2 3 5		
CHESTERTOWN	1750	KENT	CHESAPEAKE	39 13	76 04	35	EST	11P	11P	43	43	T W ELIASON JR	2 3 5		
CHEWSVILLE BRIDGEPORT	1790	WASHINGTON	POTOMAC	39 38	77 44	560	EST	8P	8P	51	51	D PAUL OSWALD	2 3 5		
CLEAR SPRING	1890	WASHINGTON	POTOMAC	39 40	77 54	560	EST	5P	5P	49	49	MRS L A COHILL	2 3 5		
COCKEYSVILLE	1960	BALTIMORE	CHESAPEAKE	39 27	76 39	390	EST	MID	MID	1	1	D M PARKS	3 4		
COLEMAN	1980	KENT	CHESAPEAKE	39 21	76 07	80	EST	8P	8P	51	51	W B HARRIS	2 3 5		
COLLEGE PARK UNIV OF MD	1995	PRINCE GEORGES	POTOMAC	38 59	76 56	95	EST	5P	5P	62	62	R G BROWN	2 3 5		
COLLEGE PARK SCS	2000	MONTGOMERY	POTOMAC	39 03	76 57	309	EST	MID	MID	9	9	HAROLD HOBBS	3 4		
CONOWINGO DAM	2060	HARFORD	SUSQUEHANNA	39 39	76 10	40	EST	MID	MID	13	13	SUSQUEHANNA ELEC CO	2 3 5		
CONOWINGO POLICE BARRACKS	2065	HARFORD	SUSQUEHANNA	39 39	76 11	195	EST	5P	5P	1	1	MD STATE POLICE	2 3 6		
CRISFIELD	2205	SOMERSET	CHESAPEAKE	37 39	75 51	5	EST	5P	5P	29	29	G C ADAMS SR	2 3 5		
CUMBERLAND	2280	ALLEGANY	POTOMAC	39 39	78 48	623	EST	8A	8A	78	78	R R GOLDEN	2 3 5 7		
CUMBERLAND POLICE BARRACKS	2285	ALLEGANY	POTOMAC	39 40	78 47	880	EST	6P	6P	1	1	MD STATE POLICE	2 3 5		
DISTRICT HEIGHTS	2585	PRINCE GEORGES	POTOMAC	38 51	76 54	272	EST	6P	6P	3	3	J P KOHLER	2 3 5		
EASTON POLICE BARRACKS	2700	TALBOT	CHESAPEAKE	38 46	76 01	60	EST	6P	6P	58	58	MD STATE POLICE	2 3 5		
EDGE MONT	2770	WASHINGTON	POTOMAC	39 40	77 33	920	EST	8A	8A	22	22	LEE G HARNE	2 3 5		
ELKTON	2860	CECIL	CHESAPEAKE	38 35	75 50	28	EST	6P	6P	22	22	H W BOUCHELLE	2 3 5		
EMMITSBURG	2905	FREDERICK	POTOMAC	39 41	77 21	720	EST	5P	5P	82	82	MT ST MARYS SEMINARY	2 3 5		
FALLSTON	3050	HARFORD	CHESAPEAKE	39 30	76 24	450	EST	6P	6P	79	79	MISS ETHEL CURTISS	2 3 5		
FORT GEORGE G MEADE	3230	ANNE ARUNDEL	PATUXENT	39 07	76 46	195	EST	MID	6P	7	7	U S NAVY	2 3 5		
FREDERICK	3345	FREDERICK	POTOMAC	39 25	77 25	297	EST	5P	5P	79	79	D J MARKEY JR	2 3 5		
FREDERICK POLICE BARRACKS	3348	FREDERICK	POTOMAC	39 25	77 25	380	EST	5P	5P	1	1	MD STATE POLICE	2 3 5		
FREDERICK WB AIRPORT	3350	FREDERICK	POTOMAC	39 25	77 27	371	EST	10P	10P	5	5	U S WEATHER BUREAU	2 3 4 5		
FRIENDSVILLE	3400	GARRETT	YOUNGLOGHENY	39 40	79 25	1980	EST	6P	6P	28	28	HARRY N SAVAGE	2 3 5		
FROSTBURG	3410	ALLEGANY	POTOMAC	39 39	78 55	2100	EST	6P	6P	47	47	C A SUTER JR	2 3 5		
GERMANTOWN	3585	MONTGOMERY	POTOMAC	39 10	77 23	460	EST	6P	6P	28	28	R F STALEY	2 3 5		
GLEN ECHO	3645	MONTGOMERY	POTOMAC	38 58	77 09	150	EST	MID	MID	4	4	U S ENGINEERS	2 3 4		
GLENELG	3655	HOWARD	PATUXENT	39 16	76 59	630	EST	6P	6P	2	2	JACOB S BROWN	2 3 5		
GLENN DALE BELL STATION	3675	PRINCE GEORGES	PATUXENT	38 58	76 48	151	EST	4P	4P	28	28	BUREAU PLANT INDUSTRY	2 3 5		
GRANTSVILLE	3795	GARRETT	ORIO	39 42	79 09	2300	EST	MID	MID	6	6	MARY R BITTINGER	3 4		
GRASONVILLE	3805	QUEEN ANNES	CHESAPEAKE	38 57	76 13	8	EST	6P	6P	1	1	MISS CAROLYN COURSEY	2 3 5		
GREAT FALLS	3855	MONTGOMERY	POTOMAC	39 00	77 15	200	EST	5P	8A	60	60	U S ENGINEERS	2 3 5		
GROSVENOR LANE	3930	MONTGOMERY	POTOMAC	39 01	77 09	330	EST	6P	6P	2	2	A F MAGRUM	2 3 5		
HAGERSTOWN	3975	WASHINGTON	POTOMAC	39 39	77 44	660	EST	6P	6P	7	7	WM M HAMBY	2 3 5		
HANCOCK	4025	WASHINGTON	POTOMAC	39 42	78 11	540	EST					H E KERSHNER	7		
HANCOCK FRUIT LABORATORY	4030	WASHINGTON	POTOMAC	39 42	78 11	428	EST	8A	8A	15	15	CHARLES O DUNBAR	2 3 5		
HUNTINGTON	4485	CALVERT	CHESAPEAKE	38 37	76 37	160	EST	7P	7P	13	13	ELMER O BOWEN	2 3 5		
KEDYSVILLE	4780	WASHINGTON	POTOMAC	39 29	77 42	420	EST	6P	6P	45	45	TRAVIS D KNOE	2 3 4 5		
LA PLATA	5080	CHARLES	POTOMAC	38 32	76 58	190	EST	7P	7P	34	34	WALLACE S BARNES	2 3 5		
LEONARDTOWN	5200	ST MARYS	POTOMAC	38 18	76 38	100	EST	5P	5P	14	14	THOMAS E STOKEL	2 3 4 5		
LUKE	5530	ALLEGANY	POTOMAC	39 29	79 03	950	EST	8A	8A	11	11	J G PATRICK	3 4		
MARYLAND LINE	5715	BALTIMORE	CHESAPEAKE	39 43	76 39	840	EST	5P	5P	24	24	CHESTER L FULTON	2 3 5		
MILLINGTON	5985	KENT	CHESAPEAKE	39 15	75 50	27	EST	8P	8P	51	51	HENRY L HIGMAN	2 3 5		
OAKLAND	6620	GARRETT	MONONGAHELA	39 24	78 24	2420	EST	5P	5P	51	51	R E WEBER	2 3 5		
OCEAN CITY	6665	WORCESTER	COASTAL	38 20	75 05		EST	MID	MID			U S COAST GUARD	3 4		
OWINGS FERRY LANDING	6770	CALVERT	CHESAPEAKE	38 42	76 41	120	EST	7P	7P	32	32	THOMAS J BOURNE	2 3 5		
OXFORD	6785	TALBOT	CHESAPEAKE	38 42	76 10	10	EST	5P	5P	12	12	HENRY WILCOX	2 3 5		
PATUXENT RIVER	6915	ST MARYS	COASTAL	38 17	76 24	74	EST	MID	MID	5	5	U S NAVAL AIR STATION	3 4		

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STATION	INDEX NO.	COUNTY	DRAINAGE	LAT.	LONG.	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
							ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
PERRY POINT	6980	CECIL	CHESAPEAKE	39 34	76 04	40	EST		6P		8		VETERANS ADM	3
PICARDY	7010	ALLEGANY	POTOMAC	39 33	78 30	1030	EST	6P	6P	22	22		OSCAR R DAY	2 3 5
PIKESVILLE POLICE BARRACKS	7015	BALTIMORE	PATAPSCO	39 22	76 43	485	EST	5P	5P	1	1		MD STATE POLICE	2 3 5
PRETTY BOY DAM	7315	BALTIMORE	CHESAPEAKE	39 38	76 42	780	EST	5P	5P	18	18		C W HENDRIX	2 3 5
RANDALLSTOWN POLICE BARRACKS	7435	BALTIMORE	PATAPSCO	39 23	76 48	625	EST	5P	5P	1	1		MD STATE POLICE	2 3 5
RIDGELY	7575	CAROLINE	CHESAPEAKE	38 57	75 53	67	EST	6P	6P	58	58		J K SNOWBERGER	2 3 5
RIVERDALE	7615	PRINCE GEORGES	POTOMAC	38 58	76 56	45	EST	6P	6P	3	3		R T ZOCH	2 3 5
ROCK CREEK FOREST	7690	MONTGOMERY	POTOMAC	39 00	77 04	200	EST	6P	6P	3	3		CHARLES O SCHICK	2 3 5
ROCK HALL	7700	KENT	CHESAPEAKE	39 08	76 14	15	EST	6P	6P	35	35		EDWIN URIB	2 3 5
ROCKVILLE	7705	MONTGOMERY	POTOMAC	39 05	77 09	440	EST	5P	5P	1	1		MONTGOMERY CO POLICE	2 3 5
ROYAL OAK	7806	TALBOT	CHESAPEAKE	38 43	76 11	10	EST	6P	6P	1	1		J L SWAINE JR	2 3 5
SALISBURY	8000	WICOMICO	CHESAPEAKE	38 22	75 37	10	EST	4P	4P	42	42		CITY OF SALISBURY	2 3 5
SALISBURY POLICE BARRACKS	8003	WICOMICO	CHESAPEAKE	38 25	75 34	42	EST	5P	5P	1	1		MD STATE POLICE	2 3 5
SALISBURY MUNICIPAL AIRPORT	8005	WICOMICO	CHESAPEAKE	38 20	75 30	46	EST	MID	MID	1	1		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	MID	24	24	WALTER G MANN	3 4
SINES DEEP CREEK	8315	GARRETT	YOUNGHOGENY	39 31	79 25	2030	EST	MID	MID	24	24		C E MAC MURRAY	2 3 4 5
SOLOMONS	8405	CALVERT	CHESAPEAKE	38 19	76 27	20	EST	6P	6P	57	57		CHESAPEAKE BIOLOG LAB	2 3 5
TAKOMA PARK BALTO AVE	8720	MONTGOMERY	POTOMAC	38 59	77 01	320	EST	6P	6P	50	50		GUY L SEAMAN	2 3 5
TAKOMA PARK MISS AVE	8725	MONTGOMERY	POTOMAC	38 59	77 00	230	EST	7P	7P	4	4		O L HARVEY	2 3 5
TOWHOLWAY	8855	WASHINGTON	POTOMAC	39 40	78 12	550	EST	6P	6P	24	24		AMER FRUIT GROWERS	2 3 5
TOWSON	8877	BALTIMORE	PATAPSCO	39 24	76 36	415	EST	5P	5P	57	57		BALTIMORE CO POLICE	2 3 5
UNIONVILLE	9030	FREDERICK	POTOMAC	39 28	77 11	450	EST	6P	6P	9	7		G P VON RIFFE JR	2 3 4 5
WALDORF POLICE BARRACKS	9195	CHARLES	POTOMAC	38 39	76 53	210	EST	5P	5P	1	1		MD STATE POLICE	2 3 5
WATERLOO POLICE BARRACKS	9314	HOWARD	PATAPSCO	39 10	76 47	230	EST	5P	5P	1	1		MD STATE POLICE	2 3 5
WEST LANHAM HILLS	9400	PRINCE GEORGES	POTOMAC	38 57	76 53	165	EST	6P	6P	1	1		LILBURN H BEAMON	2 3 5
WESTERN PORT	9405	ALLEGANY	POTOMAC	39 29	79 02	1000	EST	6P	6P	55	55		MORRIS BRUCE	2 3 5
WESTMINSTER	9435	CARROLL	CHESAPEAKE	39 35	77 00	770	EST	6P	6P	39	39		H J MATHIAS	2 3 5
WHITE HALL	9507	BALTIMORE	CHESAPEAKE	39 37	76 38	350	EST	5P	5P				BLAINE MC COLLUM	3
WILLIAMSPORT	9570	WASHINGTON	POTOMAC	39 37	77 51	360	EST	7A	7A		10		R C WILLSON	3
WILLIS SCHOOL FILTER PLANT	9579	PRINCE GEORGES	PATUXENT	39 06	76 54	400	EST		8A		3		ROBERT E CRAVER	3
WOODSTOCK COLLEGE	9750	BALTIMORE	CHESAPEAKE	39 20	76 53	415	EST	6P	6P	79	79		WOODSTOCK COLLEGE	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.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late for inclusion in this issue.

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

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

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, river stages in feet, and wind movement in miles.

- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with windshield.
- 6 No recording gage, precipitation is measured at 6-hourly intervals.
- b Adjusted to a full month.
- n One or more days of record missing; see Table 5 for detailed daily record.
- ss This entry in time of observation column in Station Index means sunset.
- r Station equipped with recording gage only. All amounts in Table 3 are from the non-recording gages, except for stations with this reference.
- x Daily precipitation totals in Table 3 are for the 24-hours ending at 1:30 A.M., E.S.T., of the following day.
- z Hourly amounts from the recording gage at the same site may be found in Table 4.
- T Trace, an amount too small to measure.

When hourly precipitation is accumulated over a period of 3 or more calendar days, with unknown hourly or daily distribution, the first and last days are shown in Table 4.

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

Data in Table 4 were formerly published in the Hydrologic Bulletin for North Atlantic District. Amounts in this table are from recording gages. Traces are not shown.

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