

U. S. DEPARTMENT OF COMMERCE  
LUTHER H. HODGES, Secretary  
WEATHER BUREAU  
ROBERT M. WHITE, Chief

# CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

AUGUST 1963  
Volume 67 No. 8



ASHEVILLE: 1963

## MARYLAND AND DELAWARE - AUGUST 1963

### TEMPERATURE AND PRECIPITATION EXTREMES

Highest Temperature: 98° on the 5+ at Waldorf Police Brks., Md. and on the 4th at Blackwater Refuge, Md.

Lowest Temperature: 37° on the 15th at Oakland 1 SE Md.

Greatest Total Precipitation: 8.60 inches at Beltsville Plant Sta., Md.

Least Total Precipitation: 0.81 inch at Bridgeville 1 NW Del.

Greatest One-Day Precipitation: 4.28 inches on the 20th at Washington WB City, D. C.

### SPECIAL WEATHER SUMMARY

Drought conditions were reported in many parts of the two-state area and especially in the central and southern Delmar Peninsula and in southern Maryland. According to the Maryland-Delaware Crop Reporting Service, the drought conditions in lower southern Maryland "generally are considered to be the worst since the early 1930's." The following are the July and August precipitation amounts in percent of normal and, in parentheses, the April thru August amounts percent of normal, for stations in these areas: Crisfield, 38 (63); Salisbury, 41 (70); Snow Hill, 34 (61); Easton, 33 (72); Owings Ferry Landing, 19 (-); Solomons, 24 (54); Bridgeville, Delaware, 18 (50).

Severe thunderstorms on the 1st, 3d, 13th, 14th, 19th, and 20th brought death and damage to many parts of the two-state area. On the 1st, heavy rainfall, flash floods,

lightning, and gusty winds caused great damage and death in Baltimore and the Wilmington areas. On the 19th and 20th heavy rainfall, totaling over 6 inches for the 2-days in the Washington, D. C. area, and lightning caused great damage in the Washington and Baltimore areas.

Record low temperatures for August 15th were set at Weather Bureau Station: 51 at Washington, D. C.; 53 at Wilmington; and 59 tied the record low of 1907 at Baltimore.

W. J. Moyer  
Weather Bureau State Climatologist  
Weather Bureau Airport Station  
Friendship International Airport  
Baltimore, Maryland

# CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE  
AUGUST 1963

Station	Temperature													Precipitation									
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										30° or Above	32° or Below	37° or Below	42° or Below					Total	Max. Depth on Ground	Date	10 or More	20 or More	1.00 or More
MARYLAND																							
SOUTHERN EASTERN SHORE																							
CRISFIELD HAMMOCK PT	86.2	68.6	77.4	- 0.6	93	4	55	26	0	5	0	0	0	2.55	- 2.50	1.05	22	0	0	0	4	2	2
OCEAN CITY WATER PLANT	82.2	67.8	75.0		94	5+	57	15	0	2	0	0	0	3.77		2.12	22	0	0	0	4	2	2
PRINCESS ANNE	85.9	62.3	74.1		93	4	46	26	3	6	0	0	0	2.38		1.15	30	0	0	0	5	1	1
SALISBURY	85.8	63.6	74.7		94	4	50	26	0	3	0	0	0	2.63	- 3.38	1.27	1	0	0	0	5	2	1
SALISBURY FAA AIRPORT	83.5	62.3	72.9		92	4	50	28	4	3	0	0	0	2.40		1.45	1	0	0	0	4	1	1
SNOW HILL	84.0	63.3	73.7	- 1.5	91	4	50	28+	1	2	0	0	0	2.67	- 3.00	1.33	30	0	0	0	5	2	1
DIVISION																							
CENTRAL EASTERN SHORE																							
BLACKWATER REFUGE	88.3	66.3	77.3		98	4	52	26	0	13	0	0	0	1.77		.80	1	0	0	0	6	1	0
CAMBRIDGE 4 W	84.9	62.7	73.8		94	4	48	26	2	3	0	0	0	1.97		.71	1	0	0	0	6	2	1
DENTON 1 S	86.0	63.0	74.5		93	4	49	26	0	7	0	0	0	2.75		1.24	20	0	0	0	6	2	1
EASTON POLICE BARRACKS	86.5	63.0	74.8	- 0.8	95	4	49	15	1	6	0	0	0	2.14	- 2.89	1.47	20	0	0	0	4	1	1
PRESTON 1 S	84.8	61.5	73.2		92	4	47	15	3	3	0	0	0	2.40		1.09	20	0	0	0	4	2	1
ROYAL OAK	86.5	65.0	75.8		95	4	53	26	0	8	0	0	0	1.81		.72	20	0	0	0	5	1	0
VIENNA	85.5	63.7	74.6		95	4	49	26	0	5	0	0	0	1.41		.41	10	0	0	0	6	0	0
DIVISION																							
LOWER SOUTHERN																							
CHARLOTTE HALL 1 ESE	87.3	63.0	75.2		96	4	49	26	0	9	0	0	0	1.46		.45	21	0	0	0	7	0	0
LA PLATA 1 W	86.9	60.8	73.9		95	4	46	26	0	8	0	0	0	1.75		.36	25	0	0	0	6	0	0
LEONARDTOWN 3 NW	88.8	61.0	74.9		97	4	45	26	0	14	0	0	0	1.97		.29	21	0	0	0	4	0	0
OWINGS FERRY LANDING	85.0	63.0	74.0	- 1.1	95	4	50	26+	0	4	0	0	0	.83	- 4.48	.40	20	0	0	0	3	0	0
PRINCE FREDERICK	86.3M	61.1M	73.7M		96	4	47	26	0	6	0	0	0	2.37		.90	13	0	0	0	8	1	0
SOLOMONS	86.1	69.1	77.6	- 0.2	96	4	60	15	0	6	0	0	0	1.05	- 3.95	.32	1	0	0	0	5	0	0
WALDORF POLICE BRKS	89.8	59.3	74.6		98	5+	40	26	4	19	0	0	0	1.16		.44	20	0	0	0	5	0	0
DIVISION																							
UPPER SOUTHERN																							
BALTIMORE WB AIRPORT	R 84.6	61.1	72.9	- 2.1	95	4	50	15	2	9	0	0	0	4.21	- .98	1.67	19	0	0	0	6	3	2
BELTSVILLE	83.6	59.6	71.6		93	5	47	26	8	3	0	0	0	8.26		2.53	21	0	0	0	5	4	3
BELTSVILLE PLANT STA 5	84.2	59.0	71.6		91	10+	47	26	7	3	0	0	0	8.60		3.05	21	0	0	0	6	4	3
COLLEGE PARK	85.7	61.8	73.8	- 1.3	93	4	49	26	1	7	0	0	0	8.23	3.08	2.78	21	0	0	0	7	5	2
DALECARLIA RESERVOIR DC	85.4	62.6	74.0		94	4	52	26+	0	5	0	0	0	5.70		2.02	20	0	0	0	6	4	2
FORT GEORGE G MEADE	85.2	59.5	72.4		92	9+	47	26	3	6	0	0	0	5.68		1.90	20	0	0	0	7	4	2
GLENN DALE BELL STA	86.4	59.6	73.0	- 1.3	94	23	47	26+	4	7	0	0	0	7.16	2.09	3.15	21	0	0	0	6	4	2
LAUREL 3 W	85.5	64.1	74.8		92	4+	52	27+	1	8	0	0	0	6.57		2.61	14	0	0	0	6	4	3
NATIONAL ARBORETUM D C	87.0	64.0	75.5		95	4	51	15	0	10	0	0	0	8.35		3.30	21	0	0	0	8	3	2
SUITLAND	84.5	63.8	74.2		91	10+	52	27	0	3	0	0	0	6.17		3.02	21	0	0	0	5	4	2
U S SOLDIERS HOME D C	83.9	61.5	72.7		93	4	50	15	2	4	0	0	0	7.31		3.43	20	0	0	0	6	4	3
UPPER MARLBORO 3 NNW	83.7	59.3	71.5		92	5	46	26	10	3	0	0	0	5.02		1.99	21	0	0	0	5	3	2
WASHINGTON WB CITY DC	R 86.2	66.5	76.4		94	4+	56	26	0	9	0	0	0	7.06		4.28	20	0	0	0	6	3	2
DIVISION																							
NORTHERN EASTERN SHORE																							
CENTREVILLE	84.2	60.6	72.4		90	4	49	26	2	1	0	0	0	4.53		1.78	14	0	0	0	6	3	2
CHESTERTOWN	84.9	63.5	74.2		93	4	53	26+	0	5	0	0	0	3.90		1.86	20	0	0	0	4	3	2
COLEMAN 3 NNW	85.2	64.0	74.6	- 1.4	91	12+	55	27+	0	3	0	0	0	4.89	- .08	1.35	20	0	0	0	6	5	2
HILLINGTON	84.5	60.7	72.6	- 2.1	90	12+	49	27+	2	3	0	0	0	3.11	- 1.78	1.48	20	0	0	0	4	2	1
ROCK HALL 3 SE	82.6	65.4	74.0	- 1.2	91	4	54	26	0	2	0	0	0	4.97	.28	1.67	20	0	0	0	7	3	2
DIVISION																							
NORTHERN CENTRAL																							
BALTIMORE WB CITY	R 85.2	68.2	76.7	- 0.6	93	4+	57	25	0	8	0	0	0	3.86	- .74	1.43	13	0	0	0	6	3	2
BENSON POLICE BARRACKS	81.6	59.1	70.4		93	10	50	28+	9	1	0	0	0	3.55		1.17	20	0	0	0	9	2	1
BOYDS 2 NW	83.6	59.4	71.5		90	8	49	15	5	1	0	0	0	5.67		2.37	19	0	0	0	6	4	2
CONOWINGO DAM	82.2	60.0	71.1		90	9	51	27+	0	1	0	0	0	4.16		1.27	1	0	0	0	5	4	2
EDGEWOOD ARSENAL	81.8	61.4	71.6		89	4	52	15	2	0	0	0	0	4.84		2.05	19	0	0	0	6	3	2
ELKTON	84.7	61.3	73.0	- 1.5	92	23	48	25	3	1	0	0	0	4.00	- 1.02	1.31	20	0	0	0	7	3	1
EMMITSBURG 2 SE	84.8M	55.7M	70.3M		90	1	44	25	13	1	0	0	0	1.87		.48	21+	0	0	0	4	0	0
FREDERICK WB AIRPORT	83.3	59.2	71.3	- 2.6	90	9+	47	26	6	2	0	0	0	3.33	- .97	1.03	20	0	0	0	5	3	2
PARKTON 2 SW	79.9	57.9	68.9		86	9+	47	25	14	0	0	0	0	4.34		1.62	1	0	0	0	7	3	1
ROCKVILLE	84.9	62.8	73.9		91	10+	52	15	0	3	0	0	0	5.65		2.02	21	0	0	0	6	3	2
TOWSON	84.4	61.2	72.8		91	1	51	26+	2	4	0	0	0	4.41	- .09	1.12	20	0	0	0	7	3	2
UNIONVILLE	81.5	57.2	69.4		87	23+	43	26+	17	0	0	0	0	2.73		1.20	13	0	0	0	3	2	0
WESTMINSTER	82.1	59.9	71.0	- 2.2	88	12+	48	25	8	0	0	0	0	2.15	- 2.64	.76	20	0	0	0	5	2	0
WHEATON REGIONAL PARK	83.8	59.5	71.7		90	1	49	26+	3	1	0	0	0	6.45		2.42	21	0	0	0	7	4	3
DIVISION																							
APPALACHIAN MOUNTAIN																							
BOONSBORO	82.0	60.3	71.2		88	1	47	25+	8	0	0	0	0	2.61		.96	20	0	0	0	3	3	0
CHEWESVILLE BRIDGEPORT	84.9	58.6	71.8	- 0.7	92	1	46	26+	7	5	0	0	0	2.88	- 1.12	1.57	20	0	0	0	4	2	1
CUMBERLAND	84.7	57.7	71.2		91	1	45	15	0	4	0	0	0	2.16		.63	14	0	0	0	6	2	0
CUMBERLAND POLICE BRKS	83.2	55.8	69.5		91	3	43	26	13	2	0	0	0	2.79		.94	13	0	0	0	7	2	0
FROSTBURG	77.9	55.4	66.7	- 3.2	84	1	46	26	27	0	0	0	0	2.32	- 1.76	.53	14	0	0	0	7	2	0
HAGERSTOWN	84.7	60.0	72.4		92	1	50	26+	2	3	0	0	0	2.73		1.48	20	0	0	0	5	2	1
HANCOCK FRUIT LAB	84.2	54.5	69.4		91	2	39	26															

# CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE  
AUGUST 1963

CONTINUED

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	10 or More	.50 or More	1.00 or More
										90° or Above	80° or Above	70° or Below	60° or Below										
ALLEGHENY PLATEAU																							
BITTINGER 2 NW	72.0M	52.2M	62.1M		81	1	39	15	98	0	0	0	0	4.13		1.05	13	.0	0		8	3	1
OAKLAND 1 SE	75.4	51.7	63.6	- 3.4	81	1	37	15	69	0	0	0	0	5.79	1.29	1.70	20	.0	0		6	4	3
SAVAGE RIVER DAM	77.2	53.5	65.4		83	1	43	26	38	0	0	0	0	3.71		1.10	14	.0	0		5	3	1
SINES DEEP CREEK 2	75.6	47.5	61.6		81	3	38	27+	115	0	0	0	0	5.60		1.22	14	.0	0		9	4	2
DIVISION			63.2	- 3.4										4.81	.44			.0					
DELAWARE																							
NORTHERN																							
NEWARK UNIVERSITY FARM	83.2	60.1	71.7		88	9+	49	27+	4	0	0	0	0	3.88		1.26	20	.0	0		6	4	1
WILMGTN NCASTLE WB AP	81.4	61.9	71.7	- 2.6	88	9	49	25	3	0	0	0	0	4.03	- 1.56	.92	1	.0	0		6	5	0
WILMINGTON PORTER RESVR	80.3	61.6	71.0		87	9	52	25	3	0	0	0	0	5.58	.26	1.80	1	.0	0		7	5	2
DIVISION			71.5	- 2.8										4.50	-.74			.0					
SOUTHERN																							
BRIDGEVILLE 1 NW	87.1	61.1	74.1	- 0.4	95	4	47	26	2	10	0	0	0	.81	- 4.74	.26	20	.0	0		3	0	0
DOVER	84.5	62.1	73.3	- 2.1	91	4	50	15	1	3	0	0	0	4.85	-.88	1.92	14	.0	0		5	2	2
GEORGETOWN 5 SW	86.2M	61.4M	73.8M		93	4	47	26	2	6	0	0	0	1.62		.45	13	.0	0		5	0	0
LEWES 1 SW	82.4	62.2	72.3		89	24	51	16+	2	0	0	0	0	3.01		1.71	21	.0	0		5	1	1
MILFORD 3 WNW	85.9	61.4	73.7		93	9+	48	26+	2	4	0	0	0	3.49		1.66	20	.0	0		6	2	1
SELBYVILLE	85.2	60.4	72.8		95	4	48	28+	4	5	0	0	0	2.85		1.86	22	.0	0		5	1	1
DIVISION			73.3	- 1.6										2.77	- 2.85			.0					

See Reference Notes Following Station Index

# DAILY PRECIPITATION

MARYLAND AND DELAWARE  
AUGUST 1963

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MARYLAND																																		
BALTIMORE WB AIRPORT R	4.21	.14	.03	.01			.02						1.42					T	1.67	.51	.05	.15									.21			
BALTIMORE WB CITY R	3.86	.57											1.43							1.10	.44	.01	.12								.19			
BELTSVILLE	8.26		.06	.06										2.08						2.50	2.53	.30				.03					.70			
BELTSVILLE PLANT STA 5	9.60		.23	.09										.06	1.76					2.30	3.05	.24				.02					.85			
BENSON POLICE BARRACKS	3.55	.50	.20	.15			.04	.04						.88	.36						1.17	.15	.17			.02					.27			
BITTINGER 2 NW	4.13	.02		.28	.40		.17						1.05					.02		.71	.08			.14						.97	.04	.25		
BLACKWATER REFUGE	1.77	.80	.14							.30		.22	.14								.13	.04									.60	.01		
BOONSBORO	1.87	.06		.07	.09		.06						.79								.96	.02									.42			
BOYDS 2 NW	5.67	.76		.19	.06		.02						.67							2.37	1.13		.05								.42			
BRIGHTON DAM	4.17			.10				.01					1.12							1.66	.83	.15									.30			
BROOKDALE	5.84	.01		T									.96	.16						2.00	1.53	.36		T						.82				
CAMBRIDGE 4 W	1.97	.71	.04								.16		.17								.51	.05	.02			.11				.02	.18			
CENTREVILLE	4.53	T	.75										.48	1.78					.14	1.22	.05			T					.11					
CHARLOTTE HALL 1 ESE	1.46	T	.05										.11								.23	.45	.10			.17				.11	.24			
CHESTERTOWN	3.90	.61											1.10							T	1.86	.20	.02	T						.08				
CHEWVILLE BRIDGEPORT	2.88			.07	.07		.06	T					.55								1.57	.01			T					.31		.24		
COLEMAN 3 WNW	4.89	1.06	.05	.07			.08	.06					.62	.60							1.35	.80	.12							.08				
COLLEGE PARK	8.23	.42	.05				.01	T					.55	.85							2.42	2.78	.40						.02	.76				
CONOWINGO DAM	8.16	1.27		.63			.01	T					1.07	.02						.30	.80	.01												
CRISFIELD HAMMOCK PT	2.55	.15	.03				1.40	.04					.05										1.05			.05					.18			
CUMBERLAND	2.16			.11			.05	.07					T	.43							.54	.12	.05							.09	.37	.15		
CUMBERLAND POLICE BRKS	2.79			.18			.30	.02					.94	.18							.60		.26								.44		.15	
DALECARLIA RESERVOIR DC	5.70			.07	.02		.01						.75	.18							2.02	1.66	.26	.01						.72				
DENTON 1 S	2.75	.18	.10					.15						.66							1.24		.38			.04								
EASTON POLICE BARRACKS	2.14	.02	.04					.12						.19							1.47	.08				.04				.04		.06	.12	
EDGEWATER	1.71			.18				.06						.52							.40	.20								.20	.15			
EDGEWOOD ARSENAL	4.84	.24					.05	.03					1.73							2.05	.50	.15								.12				
ELKTON	4.00	.63	.12	.80			.04	.11					.37	.75							1.31	.07	.10							.02	.02		.08	
EMMITTSBURG 2 SE	5.68	T	.41	.05	T		.01	T					.48								.90	.63	.16			.02					.43			
FORT GEORGE G HEADE	5.68	T	.41	.05	T		.01	T					.66	1.43							1.90	.63	.16								.43			
FREDERICK WB AIRPORT R	3.33	T		.10			.03						1.00								.85	1.03								.32				
FREDERICK 3 E	3.58			.06				.04					1.10								1.19	.79	T							.40				
FROSTBURG	2.32	.02		.19			.12	.02					.36	.53							.50	.01	T							.26	.20	.09		
GLENN DALE BELL STA	7.16	.06		.09									.52	.71							2.05	3.15	.16						.04		.38			
HAGERSTOWN	2.73			.07			.13						.60								1.48			T	T					.17		.23		
HANCOCK FRUIT LAB	1.83		T		.40		.03	.07					.05	.36							.35	.02									.32		.28	
LA PLATA 1 W	1.75	.28					.01						.15								.27									.34	.34			
LAUREL 3 W	6.57			.15									.07	1.17							1.67	1.33	.22							.59		.49		
LEONARDTOWN 3 NW	4.94	.17											.94								.12	.29	.04							.04		.04		
LOCH RAVEN DAM	4.72	1.05		.10			.06						.50	1.02							1.23	.40								.36				
LUKE	4.39		.03	.37			.13	.02					.47	.90							.81									.90	.72	.04		
MERRILL	3.09			.37			.11						.28	.86							.43	.06								.41	.23	.28		
MILLINGTON	3.11	.36	.06	.02			.02						.31	.73							1.48	.07	.03			.02				.01				
NATIONAL ARBORETUM D C	8.35		.21	.05			.04						.41	.65							3.03	3.30	.21			.03				.27	.09	.10		
OAKLAND 1 SE	5.79	.27		.03	.67		.22						1.27	.03					.01	.03	1.70	.01				.01	.04			1.30				
OCEAN CITY WATER PLANT	3.77	1.12	.20				.01						.03								T	.05	2.12							.05		T	.21	
OWINGS FERRY LANDING	.83		.06	.02						.03			.16								.40									.12	.04			
PARKTON 2 SW	4.34	1.62		.02	.19		.05						.56								.75	.44	.46							.22		.05		
PICARDY	2.84	.04		.11	.18		.12						.73	.07							.87									.57		.13		
POTOMAC FILTER PLANT	6.10			.10																	.90	3.80	.10							.10		.10		
PRESTON 1 S	2.40	.03	.89				.01			.13			.11								1.09									.02	.07			
PRINCE FREDERICK	2.37	.11					.10			.40			.90								.22		.35							.11				
PRINCESS ANNE	2.38	.47					.02		.19	T			.07										.25							.20				
ROCK HALL 3 SE	4.97	T	.85	T									.36	1.48							1.67	.25	.24							.10				
ROCKVILLE	5.65		.03										.42	1.44							1.14	2.02	.15							.45				

# DAILY TEMPERATURES

MARYLAND AND DELAWARE  
AUGUST 1963

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																																	
	MIN																																
BALTIMORE WB AIRPORT	MAX	94	91	90	95	91	91	86	90	92	85	88	91	87	77	79	80	83	79	77	82	83	87	89	82	75	77	79	80	78	83	82	84.6
	MIN	68	64	69	73	62	59	68	65	62	62	57	55	69	60	50	55	57	56	53	64	65	69	67	60	51	54	54	55	65	66	61	61.1
BALTIMORE WB CITY	MAX	93	90	88	93	88	91	84	89	92	85	86	90	87	79	81	82	86	81	78	83	85	90	91	85	76	77	80	81	78	87	85	85.2
	MIN	72	69	75	77	68	69	74	70	72	72	67	69	72	64	59	63	66	68	64	68	70	74	75	64	57	59	61	64	69	73	69	68.2
BELTSVILLE	MAX	87	92	78	88	93	85	87	85	89	82	86	88	90	87	76	77	83	88	79	77	84	82	87	86	84	74	77	80	81	79	81	83.6
	MIN	69	59	64	63	60	52	65	61	59	68	62	52	66	66	48	52	55	63	53	62	62	67	65	62	53	47	50	53	64	67	58	59.6
BELTSVILLE PLANT STA 5	MAX	87	91	87	88	91	84	86	83	89	91	86	88	89	87	76	78	83	88	80	78	85	83	88	86	84	75	78	80	80	79	82	84.2
	MIN	62	59	62	69	54	52	63	60	58	69	53	50	64	65	48	51	55	63	52	65	64	68	64	63	55	47	51	57	66	62	58	59.0
BENSON POLICE BARRACKS	MAX	84	85	84	88	84	83	80	83	85	93	82	84	83	80	75	80	80	79	74	80	83	85	87	84	76	76	78	77	76	82	81	81.6
	MIN	67	59	62	60	56	56	60	62	60	66	56	55	67	63	52	50	58	65	50	63	63	67	60	66	52	50	50	50	62	63	61	59.1
BITTINGER 2 NW	MAX	81	76	73	75	70	75	71	71	75	75	73	76	70	62	69	70			75	70	71	72	75	74	70	67	68	70	72	72	66	72.0
	MIN	59	52	57	62	48	50	59	60	60	61	55	60	55	49	39	44			46	56	54	54	53	55	46	42	46	49	60	55	51	52.2
BLACKWATER REFUGE	MAX	90	90	92	98	97	88	88	89	93	90	83	95	90	82	84	84	86	85	85	86	88	93	92	92	85	88	80	82	83	87	91	88.3
	MIN	71	69	70	78	70	61	67	69	68	70	64	64	71	70	53	56	66	62	61	71	69	73	72	70	58	52	55	57	63	73	67	66.3
BOONSBORO	MAX	88	87	82	86	82	85	78	85	87	83	86	87	85	74	77	80	87	79	78	82	82	86	85	80	77	77	80	79	78	82	79	82.0
	MIN	69	62	67	67	56	58	66	62	60	62	57	57	69	60	47	54	64	64	55	64	63	67	63	64	47	49	55	60	62	62	58	60.3
BOYDS 2 NW	MAX	89	88	85	88	83	84	80	90	88	84	87	88	80	75	78	85	88	88	85	85	83	88	87	85	73	78	80	78	77	82	82	83.6
	MIN	67	63	62	70	57	57	58	64	65	61	55	65	61	55	49	52	55	56	55	64	65	67	64	62	51	50	52	54	56	62	62	59.4
CAMBRIDGE 4 W	MAX	89	85	89	94	85	86	82	86	91	84	86	89	87	79	78	84	87	83	81	87	84	87	91	88	79	78	80	81	84	83	85	84.9
	MIN	69	66	65	73	71	58	64	68	61	67	51	58	73	68	55	51	58	69	62	68	68	69	68	65	57	48	50	52	62	63	62	62.7
CENTREVILLE	MAX	89	85	87	90	86	86	86	87	89	88	87	88	85	85	78	82	80	81	80	84	84	86	88	87	83	77	80	81	79	82	83	84.2
	MIN	72	65	66	69	65	56	64	63	62	65	56	60	71	50	52	53	60	55	55	54	67	71	65	67	50	49	52	53	65	68	60	60.6
CHARLOTTE HALL 1 ESE	MAX	83	88	90	96	93	89	87	87	93	93	88	90	92	86	80	88	90	88	84	88	84	89	89	90	82	82	83	82	81	84	86	87.3
	MIN	71	65	64	73	64	61	65	63	64	67	60	60	72	67	52	54	59	67	59	68	66	67	67	65	67	67	65	52	61	71	64	63.0
CHESTERTOWN	MAX	88	88	89	93	88	90	80	88	92	87	90	89	85	77	80	84	87	82	80	82	85	87	90	83	75	80	82	82	77	85	87	84.9
	MIN	70	63	70	72	62	61	68	65	65	68	60	61	68	63	53	58	64	62	56	67	67	72	69	65	55	53	56	58	66	70	67	63.5
CHEWSVILLE BRIDGEPORT	MAX	92	89	87	88	85	87	83	87	91	87	90	91	87	78	79	83	90	88	80	86	83	88	87	83	76	79	82	82	80	83	80	84.9
	MIN	67	64	65	66	58	53	65	60	57	64	54	51	63	61	48	50	64	63	50	62	63	68	60	62	46	46	49	55	62	63	57	58.6
COLEMAN 3 WNW	MAX	88	88	88	89	87	88	85	87	91	88	88	91	87	84	79	82	85	84	79	84	86	88	90	88	76	79	81	82	80	85	84	85.2
	MIN	68	67	68	71	67	62	65	65	66	70	60	60	70	61	55	58	62	69	58	66	66	68	67	67	56	57	55	59	66	69	62	64.0
COLLEGE PARK	MAX	92	88	89	93	88	88	85	90	92	92	88	90	90	85	79	83	88	86	78	84	82	88	89	87	79	79	81	81	78	84	82	85.7
	MIN	77	62	66	73	60	56	66	63	61	70	55	55	69	66	51	54	60	66	55	66	64	68	66	63	54	49	52	54	67	69	60	61.8
CONOWINGO DAM	MAX	82	85	83	88	84	86	76	86	90	82	86	86	76	74	78	83	84	78	77	81	86	85	89	82	76	78	82	82	75	84	83	82.2
	MIN	65	63	62	65	63	56	60	62	61	63	57	55	66	62	55	51	59	59	52	64	65	68	65	63	57	51	51	53	63	64	61	60.0
CRISFIELD HAMMOCK PT	MAX	90	89	91	93	86	88	88	85	92	87	87	89	87	81	78	84	86	84	83	86	89	89	86	87	89	81	81	82	82	83	87	86.2
	MIN	75	72	77	80	74	65	72	67	73	72	67	73	77	72	56	60	66	63	74	63	74	74	69	72	75	90	55	59	58	73	70	68.6
CUMBERLAND	MAX	91	88	88	88	84	87	84	90	90	90	85	88	86	73	80	83	89	82	84	80	82	88	86	83	80	81	82	85	83	84	81	84.7
	MIN	63	60	66	69	55	53	65	60	60	60	56	52	61	61	45	50	52	61	51	62	64	64	59	59	52	47	48	53	65	60	56	57.7
CUMBERLAND POLICE BRKS	MAX	87	80	91	90	85	85	85	85	87	83	82	85	81	71	76	78	83	84	82	81	80	87	87	86	86	79	81	84	83	83	83	83.2
	MIN	61	59	66	65	54	49	50	60	58	63	53	50	58	61	45	45	50	60	47	62	62	65	58	58	53	43	45	50	65	59	55	55.8
DALECARLIA RESERVOIR D C	MAX	88	92	89	94	87	87	83	88	91	90	88	90	88	77	80	83	88	85	86	82	83	88	89	84	78	80	82	82	80	83	81	85.4
	MIN	70	65	66	71	61	59	63	65	63	70	60	58	68	63	52	56	63	67	57	65	65	66	66	67	54	52	55	59	66	69	61	62.6
DENTON 1 S	MAX	90	86	89	93	89	89	85	91	92	90	88	90	85	82	81	86	88	85	78	85	87	86	90	87	77	81	84	82	81	84	86	86.0
	MIN	71	64	66	73	65	56	64	65	65	67	67	60	70	66	50	50	64	70	56	66	70	67	71	68	56	49	52	53	61	69	61	63.0
EASTON POLICE BARRACKS	MAX	90	87	89	95	94	88	86	88	91	90	86	88	88	78	85	87	86	84	86	86	86	86	90	89	83	80	81	82	81	84	85	86.5
	MIN	73	65	68	69	70	59	66	65	62	68	60	62	72	66	49	53	52	70	59	65	66	71	69	67	55	51	53	50	63	71	64	63.0
EDGEWOOD ARSENAL	MAX	84	87	84	89	85	86	78	86	88	84	85	87	86	77	76	80	84	78	76	80	82	85	88	80	74	75	77	74	75	82	81	81.8
	MIN	67	61	65	70	60	57	63	64	62	62	59	57</																				

# DAILY TEMPERATURES

MARYLAND AND DELAWARE  
AUGUST 1963

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			
OCEAN CITY WATER PLANT	MAX	82	84	87	94	94	85	84	81	85	85	83	83	82	77	75	78	81	84	80	79	81	70	81	85	88	83	75	78	78	76	81	80	82.2
	MIN	70	67	71	76	66	66	72	72	69	74	69	66	74	69	57	60	64	69	67	71	70	70	70	71	62	58	65	60	69	71	67	67.8	
OWINGS FERRY LANDING	MAX	89	88	91	95	87	89	80	88	91	85	85	89	85	84	79	82	86	83	78	85	82	86	91	89	78	81	81	81	79	84	84	85.0	
	MIN	77	63	65	73	65	60	66	65	62	66	59	59	72	66	50	53	62	68	56	66	65	68	68	63	53	50	53	60	66	70	63	63.0	
PARKTON 2 SW	MAX	86	84	81	84	81	82	73	83	86	80	83	85	82	72	76	80	83	74	73	83	81	85	85	79	73	75	78	78	73	81	79	79.9	
	MIN	65	59	63	67	56	55	61	60	59	62	55	53	66	56	48	51	56	57	50	63	63	67	63	57	47	50	51	51	63	62	58	57.9	
PICARDY	MAX	92	89	84	87	85	88	87	89	89	85	88	89	80	72	78	80	89	83	82	81	80	88	86	84	75	78	79	83	82	84	78	83.7	
	MIN	62	58	65	66	55	54	63	60	61	63	55	54	61	59	45	52	55	60	50	60	64	61	58	54	49	43	48	53	64	59	56	57.0	
PRESTON 1 S	MAX	90	84	88	92	84	86	84	87	91	86	87	89	86	83	78	85	87	82	80	86	85	86	89	87	78	78	81	82	80	83	85	84.8	
	MIN	71	63	67	75	65	57	66	66	61	67	58	59	70	67	47	51	57	51	58	67	66	71	65	66	51	49	50	53	60	71	61	61.5	
PRINCE FREDERICK	MAX	91	88	91	96	93	87	84	92	92	83	84	88	85	82	78				87	87	82	84	89	91	89	86	81	81	81	83	86.3		
	MIN	70	62	65	72	66	58	64	64	61	59	58	58	70	61	48				51	66	64	66	65	61	59	49	50	55	65	62	71	61.1	
PRINCESS ANNE	MAX	87	87	88	93	90	88	86	87	90	80	85	88	88	85	79	82	85	87	84	88	85	87	90	90	88	79	78	80	80	83	85	85.9	
	MIN	69	65	64	76	63	57	65	67	63	68	60	61	71	66	51	49	52	61	60	72	69	67	69	65	63	54	46	50	49	60	71	64	62.3
ROCK HALL 3 SE	MAX	84	85	84	91	90	86	85	85	86	84	84	85	82	82	75	79	82	81	76	80	83	85	88	84	77	77	79	78	76	82	85	82.6	
	MIN	74	64	71	72	68	70	62	66	67	71	63	63	71	66	56	60	66	71	60	67	67	72	69	64	55	54	57	59	68	70	64	65.4	
ROCKVILLE	MAX	89	87	87	91	90	85	85	86	89	91	86	88	89	86	77	82	87	88	79	84	84	87	87	84	80	78	81	81	80	81	82	84.9	
	MIN	71	65	65	70	60	61	66	65	67	69	62	58	61	64	52	57	60	66	59	65	66	66	67	63	55	53	57	59	64	69	64	62.8	
ROYAL OAK	MAX	90	88	88	95	90	90	84	89	93	88	89	91	87	85	80	85	88	85	83	87	86	87	91	90	77	81	83	83	79	84	86	86.5	
	MIN	69	66	68	77	70	61	67	65	64	71	62	62	73	68	56	56	65	72	58	67	66	70	69	68	56	53	56	60	66	71	64	65.0	
SALISBURY	MAX	87	86	88	94	90	88	83	87	89	88	85	89	86	85	80	83	87	87	83	88	86	85	90	88	83	80	82	80	82	85	89	85.8	
	MIN	71	66	67	75	65	60	67	70	65	68	62	63	68	68	53	52	54	67	62	71	70	70	68	68	54	50	53	51	60	71	64	63.6	
SALISBURY FAA AIRPORT	MAX	87	83	88	92	83	86	81	85	90	81	82	88	85	75	78	85	85	85	77	87	87	83	90	86	73	77	80	81	79	83	85	83.5	
	MIN	70	68	68	69	65	59	67	68	66	65	61	63	74	58	52	52	53	62	61	70	70	68	67	66	52	48	51	50	58	66	63	62.3	
SAVAGE RIVER DAM	MAX	83	81	79	82	77	75	80	74	82	80	82	77	81	76	67	75	76	79	72	75	77	72	79	79	76	72	75	78	79	77	77	77.2	
	MIN	54	58	60	65	51	50	52	62	61	61	52	52	55	56	48	45	48	51	48	53	60	58	55	55	54	43	44	47	50	56	55	53.5	
SINES DEEP CREEK 2	MAX	79	77	81	76	73	77	73	80	78	80	76	79	70	68	71	75	77	72	78	73	78	79	77	74	73	74	78	77	73	76	72	75.6	
	MIN	54	46	48	58	44	46	49	58	57	57	44	44	45	48	38	41	42	44	43	46	54	55	50	49	48	38	38	44	45	53	47	47.5	
SNOW HILL	MAX	87	86	87	91	86	86	85	85	89	84	82	87	84	81	77	82	83	86	79	88	85	85	90	87	81	77	78	79	80	82	84	84.0	
	MIN	71	66	66	75	62	60	66	68	65	70	62	63	72	68	52	50	53	68	60	71	69	71	68	67	54	50	52	50	59	70	63	63.3	
SOLOMONS	MAX	91	85	91	96	93	88	85	88	91	85	86	89	87	87	79	82	85	83	78	87	84	87	90	89	82	81	82	81	84	85	87	86.1	
	MIN	74	71	72	77	62	68	72	69	71	74	70	69	73	69	60	64	67	70	68	72	70	71	73	72	62	62	64	64	69	73	69	69.1	
SUITLAND	MAX	86	91	89	88	91	86	88	80	89	91	87	88	89	87	77	80	83	89	82	78	86	81	87	87	85	75	79	78	80	79	83	84.5	
	MIN	72	67	66	73	65	63	70	65	64	72	72	59	72	66	55	56	62	69	60	66	56	68	66	65	55	54	52	60	66	62	60	63.8	
TOWSON	MAX	91	90	87	90	85	86	86	87	90	88	86	88	88	85	77	80	84	83	78	83	83	86	88	85	80	77	79	78	83	82	82	84.4	
	MIN	73	60	65	70	56	57	64	62	62	68	56	56	68	64	51	52	62	66	53	65	70	70	68	63	51	51	52	54	65	66	60	61.2	
UNIONVILLE	MAX	87	85	82	82	80	82	73	83	83	84	83	86	85	79	77	82	85	78	77	83	83	86	87	81	73	79	81	80	76	83	81	81.5	
	MIN	66	59	65	69	54	50	65	60	56	63	50	49	66	58	45	50	59	63	49	63	64	68	59	59	43	43	48	52	63	60	56	57.2	
U S SOLDIERS HOME D C	MAX	91	90	89	93	86	87	81	87	90	86	87	89	86	77	75	82	87	80	77	84	82	88	87	86	75	79	80	80	78	82	80	83.9	
	MIN	65	62	70	72	60	59	67	65	60	66	63	57	62	61	50	52	64	64	56	62	61	65	63	63	54	56	56	58	64	68	62	61.5	
UPPER MARLBORO 3 NNW	MAX	85	90	87	88	92	85	86	81	88	91	85	86	89	86	77	78	81	88	81	77	83	81	86	87	85	74	78	78	80	79	83	83.7	
	MIN	69	63	62	69	56	53	63	63	59	68	55	54	67	65	47	50	55	69	51	61	63	67	64	61	50	46	50	54	63	68	58	59.3	
VIENNA	MAX	89	85	90	95	86	89	82	87	90	88	85	89	84	80	79	84	86	85	79	87	89	87	92	92	78	81	80	81	81	85	87	85.5	
	MIN	70	66	67	77	67	58	67	68	64	63	61	63	70	68	53	51	62	72	59	70	67	69	67	66	54	49	54	54	64	71	63	63.7	
WALDORF POLICE BRKS	MAX	94	96	92	98	98	90	90	91	93	93	90	92	92	91	82	95	97	89	82	89	89	90	91	92	85	81	81	84	84	86	87	89.8	
	MIN	72	63	62	71	60	57	55	56	55	64	57	56	72	66	50	52	58	66	57	66	65	67	66	61	51	40	50	55	54	54	60	59.3	
WASHINGTON WB CITY D C	MAX	94	91	91	94	86	90	84	88	93	88	89	91	88	78	82	85	90	80	80	87	83	90	89	86	79	82	84	83	81	85	82	86.2	
	MIN	73	69	72	73	67	66	71	68	68	72	66	64	71	63	57	61	66	68	64	67	67	70	70	66	57	56	60	65	68	71	65	66.5	
WESTERNPORT	MAX	89	86	87	86	84	86	83	89	8																								

# EVAPORATION AND WIND

MARYLAND AND DELAWARE  
AUGUST 1963

Station		Day of month																															Total or Avg.	
		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, MD.	EVAP	.35	.26	.26	.38	.39	.57	.32	.16	.32	.30	.23	.37	.28	.50	.46	.23	.21	.27	.31	.00	-	.30	.28	.13	.28	.21	.17	.14	.25	.00	.20	B 8.40	
	WIND	90	91	76	92	90	84	86	85	89	89	82	82	88	90	85	86	85	86	89	85	77	89	87	10	24	55	28	17	19	52	15	28	B -
	MIN	68	65	66	65	60	61	63	67	65	66	66	59	65	63	65	53	55	59	62	59	59	63	66	71	68	58	55	57	59	62	65	64	B 62.7
SAVAGE RIVER DAM, MD.	EVAP	.21	.10	.49	.29	.08	.09	.30	.05	.21	.16	.12	.31	.01	.37	.20	.19	.19	.15	.29	.12	.12	.16	*	.42	.10	.21	.21	.16	.06	.14	.14	5.67	
	WIND	38	87	70	95	125	63	31	48	50	52	34	56	39	132	101	35	28	54	*	89	40	42	43	40	74	43	39	31	27	33	38	1677	
	MIN	62	61	61	65	52	54	63	65	65	64	62	57	56	55	50	52	54	58	56	55	62	61	60	60	58	50	50	53	56	66	61	58.3	
UPPER MARLBORO 3 NNW, MD.	EVAP	.20	.23	.25	.17	.30	-	.18	.11	.22	*	*	.56	.13	.29	.24	.09	.29	.22	.23	.18	.31	-	.28	.18	.11	.20	.17	.14	.18	.04	.19	B 6.08	
	WIND	10	15	19	23	35	26	8	12	16	*	*	29	15	56	46	9	5	*	55	-	-	-	-	18	19	5	4	22	10	8	B 554		
	MIN	74	71	70	73	67	66	69	73	71	70	64	64	69	68	60	61	65	67	64	65	72	73	77	73	65	64	64	67	69	70	71	68.3	
GEORGETOWN 5 SW, DEL.	EVAP	.21	.24	.19	.44	.40	.23	.13	.18	.25	.29	.22	.18	.17	.30	.38	.20	.26	.20	.11	.19	*	.32	.26	-	-	-	.19	.24	.12	.14	.53	B 7.27	
	WIND	31	70	20	81	94	26	19	40	23	38	22	26	26	30	*	61	16	49	47	36	26	24	23	41	56	20	22	21	20	36	87	B 1131	
	MIN	74	67	69	70	62	63	67	66	67	69	67	65	70	64	56	60	64	70	60	67	71	79	72	70	56	59	58	60	64	67	65	65.7	
NEWARK UNIV. FARM, DEL.	EVAP	.24	.20	.19	.19	.31	.28	.26	.11	.19	.31	.30	.30	.13	.11	.20	.20	.31	.22	.19	.07	.12	.24	.19	.07	.26	.07	.17	.14	.24	.10	.21	6.06	
	WIND	23	90	*	11	49	24	14	11	15	15	12	20	16	60	31	18	21	28	25	25	12	9	14	18	19	18	10	13	28	11	23	683	
	MIN	94	91	91	92	91	95	77	94	97	97	99	92	90	78	88	90	92	91	89	94	94	94	96	95	89	86	90	90	91	90	91	91.1	
	MIN	74	67	69	70	62	63	67	66	67	69	67	65	70	64	56	60	64	70	60	67	71	79	72	70	56	59	58	60	64	67	65	65.7	

MAX AND MIN IN DAILY EVAPORATION TABLE REFER TO EXTREMES OF TEMPERATURE OF WATER IN PAN AS RECORDED DURING THE 24 HOURS ENDING AT TIME OF OBSERVATION.

## SUPPLEMENTAL DATA

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	1:00 AM EST	7:00 AM EST	1:00 PM EST	7:00 PM EST	Trace	01-09	10-49	50-99	100-100	2.00 and over			Total
BALTIMORE WB AIRPORT, MD.	W	23	8.6	30	NW	14	82	83	54	62	1	4	3	1	2	0	11	72	5.1
FREDERICK WB AIRPORT, MD.	-	-	-	-	-	-	-	-	-	-	1	1	2	1	2	0	7	-	-
WASHINGTON WB CITY, D.C.	-	-	-	-	-	-	-	-	-	-	0	9	3	1	1	1	11	-	-
WILMINGTON-N CASTLE WB AP, DEL.	WNW	20	6.2	30++	WNW	14	79	79	51	65	4	4	1	5	0	14	-	5.6	

See reference notes following Station Index.



# STATION INDEX

MARYLAND AND DELAWARE  
1963

STATION	INDEX NO.	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER		
							TEMP.	PRECIP.	EVAP.	SPECIAL								TEMP.	PRECIP.	EVAP.	SPECIAL			
MARYLAND																								
ANAPOLIS 2 NW	0193	ANNE ARUNDEL	1	38 59	76 31	70	5P	5P			H	RADIO STATION WNAV	7010	ALLEGANY	5	39 33	78 30	1030	6P	6P		H	POTOMAC M.L.D. ORCHARD	
BALTIMORE WB AIRPORT	0461	ANNAPOLIS	1	39 11	76 40	144	MID	MID			C	POTOMAC FILTER PLANT	7270	MONTGOMERY	5	39 02	77 15	270	6P	6P		H	RADIO STATION WNAV	
BALTIMORE WB CITY	0470	BALTO CITY	1	39 11	76 37	144	MID	MID			C	PRESTON 1 S	7310	MONTGOMERY	5	38 42	75 55	50	6P	6P		H	CITY OF POTOMAC	
BELTSVILLE	0700	PRINCE GEORGES	5	39 02	76 53	120	8A	8A			B	PRINCE FREDERICK	7325	CALVERT	1	38 32	76 35	140	5P	5P		H	FRANKLIN D. NUSBAUM	
BELTSVILLE PLANT STA	0705	PRINCE GEORGES	5	39 01	76 57	100	9A	9A			B	CHESTER H. GORDON	7330	SOMERSET	1	38 12	75 41	15	5P	5P		H	TOWN OF PRINCESS ANNE	
BENSON POLICE BARRACKS	0732	HARFORD	1	39 30	76 23	365	5P	5P			C	USDA PLANT IND. STA.	7700	KENT	1	39 07	76 12	10	6P	6P		H	JOHN C. BRANCA	
BITTINGER 2 NW	0881	GARRETT	7	39 37	79 15	2700	7P	7P			M	ELBERT E. BUCKLE	7806	TALBOT	1	38 43	76 11	10	5P	5P		H	J. L. SWAINE, JR.	
BLACKWATER REFUGE	0915	DORCHESTER	5	38 26	76 08	5	4P	4P			M	NAT. WILDLIFE REFUGE	8000	WICOMICO	1	38 22	75 35	10	5P	5P		H	CITY OF SALISBURY	
BOONSBORO	0986	WASHINGTON	3	39 31	77 39	735	6P	6P			M	RALPH F. STALEY	8005	WICOMICO	1	38 20	75 30	52	MID	MID		H	FED. AVIATION AGENCY	
BOYS 2 NW	1032	MONTGOMERY	5	39 12	77 20	580	6P	6P			M	WASH. SUB. SARY. COMM.	8065	GARRETT	5	39 31	79 08	1495	8A	8A		C	UPPER POTOMAC RVR. COMM.	
BRIGHTON DAM	1125	MONTGOMERY	4	39 12	77 03	350	8A	8A			M	FRANCIS DASHIELL	8191	GARRETT	5	39 23	79 12	1700	1	1		C	PA. ELECTRIC CO.	
BROOKDALE	1170	MONTGOMERY	5	38 57	77 06	260	7P	7P			H	ARCY MC B. HARDING	8315	GARRETT	7	39 32	79 25	2040	6P	6P		H	FRED W. SEILING	
CAMBRIDGE 4 W	1385	DORCHESTER	1	38 34	76 09	40	6P	6P			H	HARION G. LEIBY	8380	WORCESTER	1	38 11	75 24	14	6P	6P		H	CHESAPEAKE BIOL. LAB.	
CENTREVILLE	1627	QUEEN ANNES	1	39 03	76 03	40	6P	6P			H	GREEN MANOR FARM	8405	CALVERT	1	38 19	76 27	12	6P	6P		C	BALTIMORE COUNTY JAIL	
CHARLOTTE HALL 1 ESE	1686	ST. MARYS	4	38 28	76 45	167	5P	5P			H	EMORY DOBSON	8677	BALTIMORE	3	39 24	76 37	410	4P	4P		C	GO. P. VON EIFF, JR.	
CHESTERTOWN	1750	KENT	1	39 13	77 01	35	11P	11P			H	D. PAUL OSWALD	8677	FREDERICK	5	39 27	77 13	430	6P	6P		H	TOBACCO EXP. FARM	
CHEVILVILLE BRIDGEPORT	1790	WASHINGTON	3	39 38	77 51	940	5S	5S			M	W. B. HARRIS	9070	PRINCE GEORGES	4	38 52	76 47	98	8A	8A		BA	ERN. SHORE PUB. SVC. CO.	
COLEMAN 3 NW	1880	KENT	1	39 21	76 08	78	6P	6P			C	WASH. SUB. SARY. COMM.	9140	DORCHESTER	1	38 29	75 50	12	6P	6P		H	MD. STATE POLICE	
COLLEGE PARK	1895	PRINCE GEORGES	5	39 39	76 56	70	5P	5P			C	U.S. ARMY SIGNAL CORPS	9195	CHARLES	5	38 39	76 53	210	5P	5P		H	MORRIS BRUCE	
CONOWING DAM	2060	HARFORD	6	39 39	76 10	40	MID	MID			M	GEORGE W. STAPLES, III	9405	ALLEGANY	5	39 29	79 03	1000	6P	6P		H	PARK & PLANNING COMM.	
CRISFIELD HAMMOCK PT	2205	SOMERSET	1	37 58	75 52	7	5P	5P			H	MD. STATE POLICE	9502	MONTGOMERY	5	39 04	77 02	330	5P	5P		H	HAGERSTOWN WTR. PLANT	
CUMBERLAND	2285	ALLEGANY	5	39 38	78 50	970	5P	5P			H	MARYLAND STATE POLICE	9570	WASHINGTON	5	39 37	77 51	360	7A	7A		H	WOODSTOCK COLLEGE	
DENTON 1 S	2323	CAROLINE	1	38 53	75 50	28	6P	6P			H	LEE G. MARNE	9635	FREDERICK	5	39 27	77 13	430	6P	6P		H	WOODSTOCK COLLEGE	
EASTON POLICE BARRACKS	2700	TALBOT	1	38 45	76 04	40	5P	5P			H	EMORY DOBSON	9750	BALTIMORE	5	39 20	76 52	415	6P	6P		H	WOODSTOCK COLLEGE	
EDGEWOOD ARSENAL	2770	WASHINGTON	5	39 40	77 33	905	8A	8A			M	MRS. LUCILLE K. BEALE												
ELKTON	2860	CECIL	1	39 36	75 50	28	6P	6P			H	WASH. SUB. SARY. COMM.												
EMMITSBURG 2 SE	2936	FREDERICK	5	39 41	77 18	420	5P	5P			M	U.S. WEATHER BUREAU												
FORT GEORGE G MEADE	3130	ANNE ARUNDEL	4	39 06	76 45	140	5P	5P			M	U.S. WEATHER BUREAU												
FREDERICK WB AIRPORT	3350	FREDERICK	5	39 25	77 29	294	MID	MID			C	U.S. WEATHER BUREAU												
FREDERICK 3 E	3355	FREDERICK	5	39 24	77 22	285	MID	MID			C	U.S. WEATHER BUREAU												
FROSTBURG	3410	ALLEGANY	5	39 39	78 56	2035	7A	7A			M	C. A. SUTER, JR.												
GLENW DALE BELL STA	3795	PRINCE GEORGES	4	38 58	76 48	151	4P	4P			H	PLANT INTRO. GARDEN												
GRANVILLE	3975	DORCHESTER	1	39 09	76 09	240	6P	6P			H	HAGERSTOWN RESERVOIR												
HAGERSTOWN	3975	WASHINGTON	3	39 39	77 44	660	6P	6P			H	U.S. OF MD. FRUIT LAB.												
HANCOCK FRUIT LAB	4030	WASHINGTON	3	39 42	76 11	428	8A	8A			C	H. RUSSELL LEVERING												
LA PLATA 1 W	5080	CHARLES	5	38 32	77 00	140	5P	5P			C	WASH. SUB. SARY. COMM.												
LAUREL 3 W	5111	PRINCE GEORGES	4	39 08	76 54	400	5P	5P			C	RADIO STATION WKIK												
LEONARDTOWN 3 NW	5201	ST. MARYS	5	38 19	76 40	40	5P	5P			C	CITY OF BALTIMORE												
LOCH RAVEN DAM	5340	BALTIMORE	1	39 26	76 33	190	5P	5P			C	HOWARD T. MANGOLD												
LUKE	5330	ALLEGANY	5	39 28	79 04	1020	8A	8A			C	OSWALD E. MERRILL												
MERRILL	5694	GARRETT	5	39 36	79 05	1760	8A	8A			C	LOUIS H. MOLLETT												
MILLINGTON	5985	KENT	1	39 16	75 51	30	6P	6P			C	ARTHUR BITTINGER												
NEW GEDWAY	6408	GARRETT	5	39 38	79 07	2390	7P	7P			C	TOMAS J. BOURNE												
OAKLAND 1 SE	6420	GARRETT	7	39 24	79 24	2420	5P	5P			C	JOHN A. FOX												
OCEAN CITY WATER PLANT	6570	WORCESTER	2	38 20	75 05	17	4P	4P			C	VETERANS ADMINISTRATION												
OWINGS FERRY LANDING	6770	CALVERT	1	38 42	76 41	110	7P	7P			C													
PARKY 2 SW	6844	BALTIMORE	1	39 38	76 42	600	11P	11P			C													
PERROW POINT	6980	CECIL	1	39 33	76 04	40					C													

1-CHESAPEAKE; 2-COASTAL; 3-PATAPASC; 4-PATUXENT; 5-POTOMAC; 6-SUSQUEHANNA; 7-YOUGHIOWEN

### REFERENCE NOTES

Additional information regarding the climate of Maryland and Delaware may be obtained by writing to the State Climatologist at Weather Bureau Airport Station, Friendship International Airport, Baltimore, Maryland, or to any Weather Bureau Office near you.

Figures and letters following the station name, such as 12 SW, indicates distance in miles and direction from the post office.

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

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

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

Divisions, as used in "Climatological Data" Table and on the maps, became effective with data for October 1958.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind momentum in miles. Monthly degree day totals are the sums of the negative departures of average daily temperatures from 65° F.

Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" Table. Max and Min in "Evaporation and Wind" Table refer to extremes of temperature of water in pan as recorded during 24 hours ending at time of observation.

Normals for all stations are climatological standard normals based on the period 1931-1960.

Water equivalent values published in the "Snowfall and Snow on Ground" Table are the water equivalent of snow, sleet, or ice on the ground. Samples for obtaining measurements are taken from different points for successive observations; consequently occasional drifting and other causes of local variability in the snowpack may result in apparent inconsistencies in the record.

Entries of snowfall in the "Climatological Data" Table and the "Snowfall and Snow on Ground" Table, and in the "Seasonal Snowfall" Table include snow and sleet. Entries of snow on ground include snow, sleet and ice.

Data in the "Extremes" Table; "Daily Precipitation" Table; "Daily Temperature" Table; and "Evaporation and Wind" Table, and snowfall in the "Snowfall and Snow on Ground" Table, when published, are for the 24 hours ending at time of observation. The Station Index shows observation times in local standard time. During the summer months some observers take the observations on daylight saving time.

Snow on ground in the "Snowfall and Snow on Ground" Table is at observation time for all except Weather Bureau and FAA stations. For these stations snow on ground values are at 7:00 a.m., E.S.T.

In the Station Index the letters C, G, H, J, and S in the "Special" column under the heading "Observation Time and Tables", indicate the following:

C Recording Rain Gauge Station. Hourly precipitation values are processed for special purposes, and are published later in "Hourly Precipitation Data" Bulletin.

J "Snowfall and Snow on Ground" Table. Omission of data in any month indicates no snowfall and/or snow on ground in that month.

S "Supplemental Data" Table.

### OTHER REFERENCE NOTES

- No record in the "Climatological Data" Table and the "Daily Temperature" Table is indicated by no entry.
- Interpolated values for monthly precipitation totals may be found in the annual issue of this publication.
- No record in the "Supplemental Data" Table; "Daily Precipitation" Table; "Evaporation and Wind" Table; "Snowfall and Snow on Ground" Table; and the Station Index.
- + And also on an earlier date or dates.
- \*\* Partly observed one minute wind speed. This station is not equipped with automatic wind instruments.
- # Amount included in following measurement, time distribution unknown.
- \* Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- // Gage is equipped with a windshield.
- AB This entry in time of observation column in Station Index means after rain.
- AM Data based on observational day ending before noon.
- B Adjusted to a full month.
- D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- E One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" Table for detailed daily record. Degree day data, if carried for this station, have been adjusted to represent the value for a full month.
- B Amounts from recording gage. (These amounts are essentially accurate but may vary slightly from the amounts to be published later in Hourly Precipitation Data.)
- SB This entry in time of observation column in Station Index means observation made near sunset.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- X Observation time is 1:00 a.m., E.S.T. of the following day.
- VAR This entry in time of observation column in Station Index means variable.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA-NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1955 may be found in the publication "Substation History" for this state. That publication may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. for 25 cents. Similar information for regular Weather Bureau stations may be found in the 1961 annual issue of Local Climatological Data for the respective stations, obtained as indicated above, price 15 cents.

Subscription Price: 30 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary). Checks and money orders should be made payable to the Superintendent of Documents. Resistance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

# MARYLAND AND DELAWARE

