

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

CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

JULY 1963

Volume 67 No. 7



ASHEVILLE: 1963

CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE
JULY 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						
										90° or Above	80° or Above	70° or Above	60° or Above					Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
PICARDY	86.0	59.1	72.6		96	28	45	9+	13	8	0	0	0	1.18		.56	14	.0	0		4	1	0				
WESTERNPORT	85.0	57.8	71.4	- 2.6	95	28	45	9	12	7	0	0	0	2.05	- 1.54	.74	3	.0	0		4	2	0				
DIVISION			72.5	- 1.7										2.26	- 1.40			.0									
ALLEGHENY PLATEAU																											
BITTINGER 2 NW	75.2	53.9	64.6		83	28	38	9	71	0	0	0	0	4.06		1.52	3	.0	0		7	3	1				
OAKLAND 1 SE	77.3	51.8	64.6	- 3.4	87	17	37	4	74	0	0	0	0	4.43	- .41	2.43	3	.0	0		4	3	1				
SAVAGE RIVER DAM	80.1	54.7	67.4		95	18	42	9	52	3	0	0	0	3.70		1.25	3	.0	0		5	1	1				
SINES DEEP CREEK 2	79.0	50.0	64.5		88	17	35	9	66	0	0	0	0	6.12		1.88	3	.0	0		7	3	2				
DIVISION			65.3	- 2.6										4.58	.01			.0									
DELAWARE																											
NORTHERN																											
NEWARK UNIVERSITY FARM	89.2	63.1	76.2		99	27	50	10+	0	16	0	0	0	1.65		.76	28	.0	0		3	1	0				
WILMGTN NCASTLE WB AP	87.3	65.2	76.3	0.3	97	27+	54	10	0	11	0	0	0	1.65	- 2.60	.96	29	.0	0		3	1	0				
WILMINGTON PORTER RESVR	85.4	65.3	75.4		95	27+	52	9	2	9	0	0	0	1.87	- 2.60	.64	28	.0	0		4	2	0				
DIVISION			76.0	0.0										1.72	- 2.65			.0									
SOUTHERN																											
BRIDGEVILLE 1 NW	88.5	63.8	76.2	0.0	98	27	53	10+	0	14	0	0	0	1.11	- 3.95	.93	14	.0	0		1	1	0				
GEORGETOWN 5 SW	87.8	64.1	76.0		97	27	55	12+	2	13	0	0	0	2.73		.80	14	.0	0		6	3	0				
LEWES 1 SW	84.7	66.0	75.4		95	27	56	10+	0	10	0	0	0	1.83		.59	14	.0	0		3	3	0				
MILFORD 3 WNW	88.2	64.2	76.2		97	27+	52	5	0	15	0	0	0	1.32		.90	14	.0	0		3	1	0				
SELBYVILLE	86.7	64.1	75.4		98	27	52	5	0	10	0	0	0	1.72		.59	21	.0	0		3	1	0				
DIVISION			75.8	- 0.8										1.74	- 3.10			.0									

TEMPERATURE AND PRECIPITATION EXTREMES

Highest Temperature: 99° on the 27+ at 5 stations in Maryland, and on the 27th at Newark University Farm, Delaware

Lowest Temperature: 35° on the 9th at Sines Deep Creek, Maryland

Greatest Total Precipitation: 6.12 inches at Sines Deep Creek, Maryland

Least Total Precipitation: 0.52 inch at Rock Hall 3 SE, Maryland

Greatest One-Day Precipitation: 2.43 inches on the 3d at Oakland 1 SE, Maryland

See Reference Notes Following Station Index

TOTAL SNOWFALL AND NUMBER OF DAYS WITH ONE INCH OR MORE ON GROUND

Season of 1962 - 1963

MARYLAND AND DELAWARE

Station	July	August	September	October	November	December	January	February	March	April	May	June	Total
MARYLAND													
ANNAPOLIS 2 NW SNOWFALL 1 IN ON GD						11.5	-	-	-	-	-	-	-
BALTIMORE WB AIRPORT SNOWFALL 1 IN ON GD					.3	11.7	3.7 14	2.1 3	1.8		T		19.6
BALTIMORE WB CITY SNOWFALL 1 IN ON GD	-	-	-	-	-	-	-	-	-	-	-	-	-
BELTSVILLE SNOWFALL 1 IN ON GD						12.6	3.5 14	1.0	2.0				19.1
BELTSVILLE PLANT STA SNOWFALL 1 IN ON GD						3.5	19.7	4.0 17	7.8 7	2.6 1			37.6
BENSON POLICE BARRACKS SNOWFALL 1 IN ON GD						T	14.0	3.1 17	6.5 12	.5 1			24.1
BITTINGER 2 NW SNOWFALL 1 IN ON GD				6.1	5.4	42.2	12.9 28	29.8 28	15.8 19		T		112.2
BLACKWATER REFUGE SNOWFALL 1 IN ON GD						12.0	3.0	1.0 1	T				16.0
BOONSBORO SNOWFALL 1 IN ON GD					3.2	23.5	4.8 17	13.5 21	3.5 5		T		48.5
BOYDS 2 NW SNOWFALL 1 IN ON GD					T	7.5	6.4	4.5	3.5 1		T		21.9
BRIGHTON DAM SNOWFALL 1 IN ON GD						-	3.5 19	- 5	T				-
BROOKDALE SNOWFALL 1 IN ON GD					T	18.3	3.2 16	4.5 7	1.5 1		T		27.5
CAMBRIDGE 4 W SNOWFALL 1 IN ON GD						-	1.0 7	.5	T				-
CENTREVILLE SNOWFALL 1 IN ON GD				T	T	8.7	3.5 15	1.0 3	1.5				14.7
CHARLOTTE HALL 1 ESE SNOWFALL 1 IN ON GD				T	1.0	-	T 6	T	T				-
CHESTERTOWN SNOWFALL 1 IN ON GD				T	T	9.0	4.5 14	1.8 4	.5		T		15.8
CHEWSVILLE BRIDGEPORT SNOWFALL 1 IN ON GD				T	2.0	19.0	7.1 15	11.5 21	4.5 3	T	T		44.1
COLEMAN 3 NW SNOWFALL 1 IN ON GD						7.0	5.0 15	- 7	-				-
COLLEGE PARK SNOWFALL 1 IN ON GD					T	15.2	- 13	2.0 3	1.0 1		T		-
CONOWINGO DAM SNOWFALL 1 IN ON GD						8.0	4.0	6.5 11					18.5
CRISFIELD HAMMOCK PT SNOWFALL 1 IN ON GD				T		-	2.5 2	2.5 2					-
CUMBERLAND SNOWFALL 1 IN ON GD				.4	T	16.6	3.0 15	11.9 19	8.9 4		T		40.8
CUMBERLAND POLICE BRK SNOWFALL 1 IN ON GD				T		21.5	3.5 16	13.0 23	8.5 6				46.5
DALECARLIA RESERVOIR SNOWFALL 1 IN ON GD					T	-	-	-	-		T		-
DENTON SNOWFALL 1 IN ON GD						5.6	1.5 2	.9 1	.6				8.6
EASTON POLICE BARRACKS SNOWFALL 1 IN ON GD						8.0	.5 1	1.5 2					10.0
EDGEMONT SNOWFALL 1 IN ON GD					4.0	20.0	8.0 22	12.0 27	3.0 7				47.0
EDGEWOOD ARSENAL SNOWFALL 1 IN ON GD				2.0		11.8	4.5 15	9.2 1	.5 1	T	T		28.0
ELKTON SNOWFALL 1 IN ON GD						8.4	6.8 16	2.3 3	T				17.5
EMMITSBURG 2 SE SNOWFALL 1 IN ON GD					T	14.0	7.5 16	14.0 22	3.0 2		T		38.5
FORT GEORGE G MEADE SNOWFALL 1 IN ON GD					T	17.0	2.0 15	3.5 4	2.2 1		T		24.7
FREDERICK WB AIRPORT SNOWFALL 1 IN ON GD					T	17.1	5.2 18	9.2 11	2.7 1				34.2
FREDERICK 3 E SNOWFALL 1 IN ON GD						17.0	3.0	6.0	3.0				29.0
FROSTBURG SNOWFALL 1 IN ON GD				4.0	1.5	26.8	4.0 17	17.2 21	9.6 11		.5		63.6
GLENN DALE BELL STA SNOWFALL 1 IN ON GD					1.5	13.3	4.0 17	- 6	- 1		T		-
HAGERSTOWN SNOWFALL 1 IN ON GD				T	1.0	16.0	4.5 11	7.5 9	3.5 2		T		32.5
HANCOCK FRUIT LAB SNOWFALL 1 IN ON GD					T	12.1	4.5 15	10.0 23	5.0 6				31.6
LA PLATA 1 W SNOWFALL 1 IN ON GD					.3	13.1	.8 10	.5 1	.6 1		T		15.3

See reference notes following Station Index.

**TOTAL SNOWFALL AND NUMBER OF DAYS
WITH ONE INCH OR MORE ON GROUND**

CONTINUED

Season of 1962 - 1963

MARYLAND AND DELAWARE

Station	July	August	September	October	November	December	January	February	March	April	May	June	Total
LAUREL 3 W SNOWFALL 1 IN ON GD						-	-	-					-
LEONARDTOWN 3 NW SNOWFALL 1 IN ON GD						10.3	.7 1	T					11.0
LOCH RAVEN DAM SNOWFALL 1 IN ON GD						-	-	-	T				-
LUKE SNOWFALL 1 IN ON GD				T		14.5	4.0	10.0	9.0 2				37.5
MERRILL SNOWFALL 1 IN ON GD				T	T	-	-	-	-		T		-
MILLINGTON SNOWFALL 1 IN ON GD				T		6.2	3.5 13	2.0 2	T				11.7
NATIONAL ARBORETUM DC SNOWFALL 1 IN ON GD					1.0	17.8	3.9	1.3	2.0				26.0
OAKLAND 1 SE SNOWFALL 1 IN ON GD				2.0	3.0	29.2	9.5 22	17.0 20	6.9 5	T	1.0		68.6
OCEAN CITY WATER PLANT SNOWFALL 1 IN ON GD	-	-	-	-	-	-	T	1.0	T				-
OWINGS FERRY LANDING SNOWFALL 1 IN ON GD					.5	10.5	2.0 15	T 1	T		-	-	-
PARKTON 2 SW SNOWFALL 1 IN ON GD				T	2.0	14.3	5.2 18	6.5 11	1.5 1		T		29.5
PICARDY SNOWFALL 1 IN ON GD						22.0	4.0 14	6.7 20	-				32.7
POCOMOKE CITY 1 S SNOWFALL 1 IN ON GD				T		7.0	1.8 1	2.1 2	T	-	-	-	-
POTOMAC FILTER PLANT SNOWFALL 1 IN ON GD						3.3	-	-					-
PRESTON 1 S SNOWFALL 1 IN ON GD				T	T	7.7	3.0 4	1.5 1	T				12.2
PRINCE FREDERICK SNOWFALL 1 IN ON GD					T	17.5	1.0 3	T	T				18.5
PRINCESS ANNE SNOWFALL 1 IN ON GD						11.5	4.0 1	1.5					17.0
ROCK HALL 3 SE SNOWFALL 1 IN ON GD						9.3	4.6	1.5	T				15.4
ROCKVILLE SNOWFALL 1 IN ON GD						20.0	4.0 11	3.0 1	T				27.0
ROYAL OAK SNOWFALL 1 IN ON GD					T	7.9	2.0 5	.5	.5				10.9
SALISBURY SNOWFALL 1 IN ON GD						6.5	3.0 1	1.2					10.7
SALISBURY FAA AIRPORT SNOWFALL 1 IN ON GD					T	4.0	2.0 1	1.0 3	T				7.0
SAVAGE RIVER DAM SNOWFALL 1 IN ON GD						-	-	-	-	T			-
SHALLMAR SNOWFALL 1 IN ON GD						-	-	-	-				-
SINES DEEP CREEK SNOWFALL 1 IN ON GD				2.0	T	37.2	14.1 31	39.1 28	12.0 16		T		104.4
SNOW HILL SNOWFALL 1 IN ON GD				T	T	10.0	4.0 2	2.0 2	T				16.0
SOLOMONS SNOWFALL 1 IN ON GD					T	11.3	1.0 3	.3	T				12.6
SUITLAND SNOWFALL 1 IN ON GD	-	-	-	-	-	13.8	2.5 15	1.0 6	.2		T		-
TOWSON SNOWFALL 1 IN ON GD					T	-	-	-	T				-
UNIONVILLE SNOWFALL 1 IN ON GD					T	15.5	3.1	3.5 7	1.8 1		T		23.9
U S SOLDIERS HOME D C SNOWFALL 1 IN ON GD					.5	14.3	2.9 3	1.0					18.7
UPPER MARLBORO 3 NNW SNOWFALL 1 IN ON GD					T	14.5	2.8 5	1.0 1					18.3
VIENNA SNOWFALL 1 IN ON GD				T		9.5	3.0 1	1.7 1	T				14.2
WALDORF POLICE BRKS SNOWFALL 1 IN ON GD						13.5	2.0 4		T				15.5
WASHINGTON WB CITY DC SNOWFALL 1 IN ON GD	-	-	-	-	-	-	-	-	-	-	-	-	-
WESTERNPORT SNOWFALL 1 IN ON GD				T		17.0	4.5	-	-	T	T		-
WESTMINSTER SNOWFALL 1 IN ON GD				T	3.0	21.5	5.5 19	8.5 21	2.0 3				40.5
WHEATON REGIONAL PARK SNOWFALL 1 IN ON GD					T	-	2.2 25	-			T		-
WILLIAMSPORT SNOWFALL 1 IN ON GD				T	T	14.2	5.1 14	10.4 18	3.0 2				32.7

See reference notes following Station Index.

TOTAL SNOWFALL AND NUMBER OF DAYS WITH ONE INCH OR MORE ON GROUND

CONTINUED

Season of 1962 - 1963

MARYLAND AND DELAWARE

Station	July	August	September	October	November	December	January	February	March	April	May	June	Total
WOODSTOCK SNOWFALL 1 IN ON GD					T	17.6	3.0 24	4.7 6	3.0 1		T		28.3
DELAWARE													
BRIDGEVILLE 1 NW SNOWFALL 1 IN ON GD				T		7.5	1.0 2	1.5 2	1.5				11.5
DOVER SNOWFALL 1 IN ON GD						-	-	T 1	T				-
GEORGETOWN 5 SW SNOWFALL 1 IN ON GD						6.5	3.0 1	2.0 2					11.5
LEWES 1 SW SNOWFALL 1 IN ON GD				T		5.4	1.2 1	T	T				6.6
MIDDLETOWN 2 S SNOWFALL 1 IN ON GD						-		-		-	-	-	-
MILFORD 3 WNW SNOWFALL 1 IN ON GD						-		-					-
NEWARK UNIVERSITY FARM SNOWFALL 1 IN ON GD				T	T	5.2	2.5 8	4.0 1					11.7
SELBYVILLE SNOWFALL 1 IN ON GD						4.0	.3	1.5	T				5.8
WILMINGTON NCASTLE WB AP SNOWFALL 1 IN ON GD				.3	T	8.6	5.2 14	4.6 5	.3		T		19.0
WILMINGTON PORTER RES SNOWFALL 1 IN ON GD				T	T	6.5	4.5 14	5.5 8	T 1		T		16.5

NOTE: COUNT OF DAYS WITH SNOWFALL OF 1 INCH OR MORE ON GROUND WAS BEGUN WITH DATA FOR JANUARY 1963.

EVAPORATION AND WIND

MARYLAND AND DELAWARE
JULY 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	.23	.39	.31	.31	.31	.30	.25	.35	.26	.26	.27	.23	.02	.19	.26	.25	.33	.31	.36	.33	.16	.24	.19	.27	.36	.33	.20	.26	.26	8.40	
	WIND	6	4	8	77	43	43	21	14	35	16	10	12	12	19	21	25	9	7	27	-	-	-	23	5	0	11	14	-	-	-	1	
	MAX MIN	98 73	99 76	98 72	87 56	84 58	86 60	90 63	92 64	89 57	85 55	79 62	84 63	88 63	72 64	87 62	93 67	97 70	95 72	95 74	89 66	89 67	87 63	88 65	90 66	95 68	95 72	95 73	95 72	91 72	91 72	91 67	90.0 66.3
SAVAGE RIVER DAM, MD.	EVAP	.16	.20	.28	.33	.19	.47	.13	.12	.35	.22	.12	.21	.14	.30	.02	.10	.29	.21	.29	.19	.25	.03	.33	.11	.18	.14	.14	.30	.29	.24	6.54	
	WIND	45	35	52	109	61	71	38	38	82	48	40	39	35	41	55	56	49	31	76	113	95	74	27	44	32	30	30	40	47	50	48	
	MAX MIN	90 64	92 63	81 63	76 55	82 55	85 55	89 65	82 55	82 65	82 50	70 51	78 50	88 54	83 48	70 57	80 62	85 62	88 62	85 61	87 64	81 72	83 54	88 60	89 60	88 62	89 61	88 57	85 63	90 67	88 67	87 67	87 62
UPPER MARLBORO 3 NNW, MD.	EVAP	.20	.26	.27	.27	.26	.30	.27	.27	.26	.25	.20	.21	.28	.23	.06	.21	.24	.27	.26	.37	.26	.20	.20	.18	.22	.24	.27	.26	.06	.27	7.33	
	WIND	2	0	4	39	18	20	10	14	16	18	10	5	8	20	33	11	7	6	9	11	21	15	6	8	3	6	6	2	3	12	11	
	MAX MIN	105 74	105 82	103 77	92 62	91 65	92 67	98 70	96 72	94 64	91 62	92 64	95 66	95 66	96 68	95 68	94 72	99 76	102 78	103 78	103 78	96 72	94 72	95 72	94 71	100 73	102 73	102 76	104 78	102 77	99 77	98 74	97.6 71.8
GEORGETOWN 5 SW, DEL.	EVAP	.19	.30	.46	.44	.39	.44	.21	.20	.21	.36	.08	.26	.27	.04	.17	.25	.28	.36	.23	.25	.28	.20	.20	.19	.18	.26	.31	.22	.17	.26	7.96	
	WIND	17	18	74	108	68	76	16	30	46	34	31	39	36	17	38	18	21	30	34	51	59	44	41	24	15	24	28	31	18	40	49	
	MAX MIN	106 75	105 75	102 69	89 59	89 58	93 61	94 64	91 68	92 59	91 58	91 64	89 65	89 65	88 67	92 65	92 70	101 72	102 70	101 74	102 74	97 72	97 72	90 69	86 70	91 65	96 66	101 70	101 71	100 72	98 75	98 72	95 74
NEWARK UNIV. FARM, DEL.	EVAP	.17	.20	.18	.27	.41	.43	.17	.27	.28	.22	.08	.34	.12	.22	.18	.15	.30	.38	.23	.37	.21	.09	.06	.17	.20	.29	.39	.17	.30	.29	7.41	
	WIND	8	18	50	55	50	40	22	20	16	21	15	20	24	24	53	22	22	26	37	52	39	12	21	17	15	29	23	16	20	36	25	
	MAX MIN	106 75	105 75	102 69	89 59	89 58	93 61	94 64	91 68	92 59	91 58	91 64	89 65	89 65	88 67	92 65	92 70	101 72	102 70	101 74	102 74	97 72	97 72	90 69	86 70	91 65	96 66	101 70	101 71	100 72	98 75	98 72	95 74

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.

DAILY TEMPERATURES

MARYLAND AND DELAWARE
JULY 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																																	
BALTIMORE WB AIRPORT	MAX 71	93	93	84	79	83	87	88	87	78	79	83	86	83	69	87	88	96	97	97	92	87	82	83	88	93	97	97	94	93	90	90	87.8
BALTIMORE WB CITY	MAX 76	97	86	84	87	89	90	87	77	81	83	86	84	74	90	92	96	97	96	91	87	84	83	88	91	96	98	94	92	92	87	88.8	
BELTSVILLE	MAX 67	93	94	81	79	82	86	88	84	75	79	85	85	84	74	87	90	95	94	94	91	86	83	83	87	93	95	97	95	92	90	87.5	
BELTSVILLE PLANT STA 5	MAX 66	94	94	82	80	83	86	88	84	76	78	84	85	84	77	88	91	93	94	93	89	85	83	82	87	91	96	95	95	92	89	87.4	
BENSON POLICE BARRACKS	MAX 68	95	90	80	83	84	88	84	80	78	84	86	85	82	87	90	95	92	94	92	88	84	81	83	94	94	96	96	90	89	86	87.9	
BITTINGER 2 NW	MAX 58	80	70	69	72	75	79	71	63	66	70	74	73	72	73	76	82	82	80	73	73	76	73	75	78	82	81	83	75	75	79	75.2	
BLACKWATER REFUGE	MAX 64	94	94	86	87	89	87	89	85	80	89	88	87	85	93	95	92	97	95	94	86	86	87	88	90	98	99	98	92	93	93	90.7	
BOONSBORO	MAX 62	91	84	79	82	85	86	82	77	76	81	84	83	78	87	88	91	93	93	86	79	85	82	86	90	93	93	94	88	86	84	85.7	
BOYDS 2 NW	MAX 65	94	77	75	84	86	84	85	81	82	84	82	83	80	86	89	92	94	93	93	85	81	82	87	91	90	95	96	91	84	85	86.5	
CAMBRIDGE 4 W	MAX 71	93	83	78	83	84	88	84	74	80	82	85	83	78	88	89	91	94	97	92	87	84	84	86	90	94	96	91	91	88	88	87.1	
CENTREVILLE	MAX 93	93	69	62	54	62	87	84	56	80	83	85	82	76	87	89	92	92	92	93	85	83	82	86	89	93	95	91	92	88	88	87.1	
CHARLOTTE HALL 1 ESE	MAX 70	95	89	83	86	88	87	88	85	81	93	84	87	85	90	91	92	95	96	95	90	85	84	88	89	96	93	95	93	88	89.5		
CHESTERTOWN	MAX 74	95	88	83	86	88	89	86	78	82	86	87	85	70	89	90	94	92	96	90	88	84	81	89	93	96	99	93	93	91	87	88.5	
CHEWSVILLE BRIDGEPORT	MAX 66	93	86	53	50	53	89	83	49	79	83	86	86	79	87	90	93	95	95	92	82	86	84	87	91	95	98	93	87	87	89.0		
COLEMAN 3 WNW	MAX 73	95	85	81	85	87	90	87	84	82	84	88	86	78	90	91	95	95	98	92	88	85	82	88	94	97	99	95	94	91	91	89.4	
COLLEGE PARK	MAX 69	94	89	82	86	89	90	86	85	80	85	85	86	79	89	92	96	96	93	94	93	86	82	88	91	94	93	94	88	89	89.3		
CONOWING DAM	MAX 76	96	86	81	86	86	90	85	77	82	85	88	85	70	89	92	94	94	96	90	87	83	84	90	95	97	96	90	88	87	88.5		
CRISFIELD HAMMOCK PT	MAX 78	94	90	84	84	86	88	90	84	82	83	83	85	82	88	90	93	94	94	93	89	84	83	86	87	93	95	93	87	89	91	88.4	
CUMBERLAND	MAX 66	89	81	67	71	73	87	72	57	58	67	63	65	66	70	79	76	78	79	81	70	67	65	64	66	76	78	75	76	78	70	71.0	
CUMBERLAND POLICE BRKS	MAX 63	92	83	79	83	86	90	89	78	73	77	82	82	79	82	92	93	92	88	89	82	85	82	86	90	88	92	92	86	88	86.0		
DALECARLIA RESERVOIR D C	MAX 70	93	86	80	84	86	88	83	80	79	84	85	86	77	88	91	94	94	94	93	89	84	85	88	90	95	96	93	92	90	89	87.5	
DENTON 1 S	MAX 72	96	89	82	85	89	90	87	84	83	87	84	80	90	85	92	94	93	96	92	86	85	80	87	91	96	97	92	93	92	87	89.0	
EASTON POLICE BARRACKS	MAX 74	93	90	83	84	86	88	86	85	80	84	86	83	80	88	90	92	92	94	93	89	86	83	86	89	92	96	95	92	91	88	88.3	
EDGEWOOD ARSENAL	MAX 71	92	85	82	84	86	87	85	77	80	82	86	83	72	88	88	90	91	94	90	87	80	78	83	90	93	95	94	90	91	87	86.5	
ELKTON	MAX 79	96	91	84	88	88	90	87	82	82	88	88	82	78	90	91	95	94	97	96	89	89	89	90	96	99	95	94	90	89	90.5		
EMMITSBURG 2 SE	MAX 68	95	84	80	83	83	88	82	76	79	82	85	84	74	85	88	92	93	92	91	86	84	85	87	92	94	95	91	88	88	86.8		
FORT GEORGE G MEADE	MAX 59	95	85	82	85	88	88	86	85	81	85	85	84	80	87	90	95	94	95	90	88	86	84	88	93	97	96	95	92	90	89	88.8	
FREDERICK WB AIRPORT	MAX 66	94	81	81	85	87	90	82	75	77	82	85	85	69	89	90	94	95	95	87	82	82	82	86	92	95	95	95	91	87	86	86.8	
FROSTBURG	MAX 82	88	84	70	74	77	82	83	74	69	69	74	81	81	69	77	87	89	87	86	76	79	82	76	83	86	85	87	89	80	81	80.2	
GLENN DALE BELL STA	MAX 67	94	88	81	83	86	88	88	84	78	84	85	84	82	88	90	95	95	95	93	90	86	82	88	93	97	97	97	91	90	89.1		
HAGERSTOWN	MAX 68	92	86	81	85	88	88	85	82	78	82	85	85	83	84	90	93	94	95	90	80	84	83	88	91	95	95	97	90	88	87	87.7	
HANCOCK FRUIT LAB	MAX 91	93	90	78	80	84	88	88	82	77	76	80	86	85	70	85	88	95	93	93	86	84	87	85	89	92	95	94	95	89	88	86.6	
LA PLATA 1 W	MAX 69	94	85	80	85	87	91	85	79	81	85	83	86	82	89	92	96	96	96	91	83	85	83	86	90	93	96	96	94	91	89	88.5	
LAUREL 3 W	MAX 70	94	92	80	83	85	88	88	83	79	85	85	84	82	88	90	93	94	95	92	88	83	82	88	90	94	96	94	92	90	87	88.3	
LEONARDTOWN 3 NW	MAX 93	95	88	83	86	89	93	88	87	82	87	89	87	85	90	92	95	96	97	95	88	86	83	88	91	96	97	95	91	89	90.3		
MILLINGTON	MAX 71	92	70	79	82	84	88	84	82	80	84	86	83	74	88	90	95	92	97	90	84	83	81	88	93	95	99	93	94	90	87	87.6	
NATIONAL ARBORETUM D C	MAX 70	93	87	81	85	88	90	88	84	80	85	85	87	80	89	92	96	96	94	93	89	85	84	90	93	96	98	96	95	92	90	89.5	
OAKLAND 1 SE	MAX 84	80	71	71	75	77	82	72	65	67	73	77	77	69	76	80	87	84	80	74	74	80	71	78	82	83	82	84	77	81	83	77.3	
	MIN	57	60	57	37	41	42	46	56	38	40	42	43	57	57	55	54	59	63	63	57	51	55	49	52	52	59	60	61	56	48	51.8	

See Reference Notes Following Station Index

MONTHLY AND SEASONAL HEATING DEGREE DAYS

Season of 1962 - 1963

MARYLAND AND DELAWARE

Station	July	August	September	October	November	December	January	February	March	April	May	June	Total	Normals July-June
MARYLAND														
ANNAPOLIS 2 NNW	0	0	83	209	650	1010	1074							
BALTIMORE WB AIRPORT	0	0	102	242	667	1048	1114	1037	583	341	153	1	5288	4654
BALTIMORE WB CITY	0	0	51	163	561	952	1023	963	521	247	98	1	4580	4111
BELTSVILLE	0	5	130	272	694	1041	1163	1092	639	369	171	16	5592	
BELTSVILLE PLANT STA 5	3	4	130	255	685	1057	1148	1080	620	359	178	28	5547	
BENSON POLICE BARPACKS	0	1	116	263	684	1031	1138	1044	609	351	164	12	5413	
BITTINGER 2 NW	59	49	297	467	853	1276	1318	1274	810	536	350	111	7400	
BLACKWATER REFUGE	0	1	67	178	574	952	1020	970	555	355	121	0	4793	
BOONSBORO	4	0	119	247	686	1096	1084	1035	577	331	137	13	5326	
BOYDS 2 NW	4	0	123	268	650	1052	1108	1036	586	361	153	18	5359	
CAMBRIDGE 4 W	0	0	72	202	605	949	991	972	525	322	136	5	4779	
CENTREVILLE	0	1	84	211	627	1015	1029	971	540	330	137	0	4945	
CHARLOTTE HALL 1 ESE	0	1	74	193	614	993	1011	911	447	279	104	6	4633	
CHESTERTOWN	0	1	66	196	619	1025	1069	1002	566	297	124	7	4972	
CHEMSVILLE BRIDGEPORT	1	0	131	269	711	1140	1149	1086	626	358	145	13	5629	5234
COLEMAN 3 NNW	0	0	54	189	596	1005	1057	1000	587	288	109	0	4885	4489
COLLEGE PARK	0	0	92	216	636	1011	1044	983	521	268	97	3	4871	4449
CONOWINGO DAM	0	1	111	272	663	1089	1145	1068	670	351	164	9	5543	
CRISFIELD HAMMOCK PT	0	0	35	150	529	910	967	917	516	252	91	0	4367	3668
CUMBERLAND	1	1	147	283	719	1121	1120	1038	623	349	131	13	5546	
CUMBERLAND POLICE BRKS	6	2	146	315	741	1139	1157	1070	643	354	145	20	5738	
DALECARLIA RESERVOIR DC	0	0	101	203	638	1012	1054	977	519	300	104	4	4912	
DENTON	0	0	67	210	630	1005	1020	966	534	314	112	7	4865	
EASTON POLICE BARRACKS	0	0	62	183	594	984	984	932	490	284	104	2	4619	
EDGEWOOD ARSENAL	0	2	110	266	679	1044	1137	1033	651	354	184	10	5470	
ELKTON	0	2	101	254	657	1049	1085	1018	615	337	146	3	5267	4826
EMMITSBURG 2 SF	2	0	158	306	732	1105	1198	1122	664	367	180	15	5849	
FORT GEORGE G MEADE	1	0	111	234	654	1046	1069	1014	550	319	131	9	5138	
FREDERICK WB AIRPORT	2	2	135	290	708	1118	1217	1085	647	379	175	22	5780	5087
FROSTBURG	30	29	236	389	774	1185	1236	1188	755	469	278	82	6651	5749
GLENN DALE BELL STA	0	0	101	226	660	1035	1048	978	531	327	126	9	5041	4646
HAGERSTOWN	0	0	121	257	698	1111	1125	1064	620	325	114	6	5481	
HANCOCK FRUIT LAB	7	7	183	344	770	1128	1181	1133	714	396	219	40	6122	
LA PLATA 1 W	1	0	74	208	615	998	992	929	469	293	117	6	4702	
LAUREL 3 W	0	0	70	173	1049	980	1017	967	513	260	98	2	5129	
LEONARDTOWN 3 NW	0	1	73	212	598	972	973	932	479	300	116	7	4663	
MILLINGTON	0	1	95	240	647	1051	1068	997	576	339	131	1	4552	4518
NATIONAL ARBORETUM D C	0	0	60	184	600	992	988	916	477	259	74	2	4552	
OAKLAND 1 SE	63	60	265	455	891	1284	1320	1234	800	354	230	120	7296	6403
OCEAN CITY WATER PLANT						940	972	911	570	331	169	2		
OWINGS FERRY LANDING	0	0	73	200	623	1001	970	945	495	291	126	2	4796	4242
PARKTON 2 SW	4	4	156	318	724	1124	1193	1113	682	408	212	37	5975	
PICARDY	8	16	208	335	743	1123	1116	1069	647	375	172	22	5834	
POCOMOKE CITY 1 S	5	2	97	226	598	925	967	952	489	277	117	6	4702	
PRESTON 1 S	0	2	83	214	616	994	992	940	515	315	123	2	4796	
PRINCE FREDERICK	0	0	174	341	641	991	991	921	517	289	89	9	4838	4509
PRINCESS ANNE	0	0	84	230	581	928	947	894	472	302	121	5	4564	
ROCK HALL 3 SE	0	1	60	130	607	998	1064	997	568	306	107	0	4838	4509
ROCKVILLE	0	0	102	210	592	996	1061	995	519	277	7	4	4621	
ROYAL OAK	0	0	48	179	585	973	991	955	506	285	99	0	4621	
SALISBURY	0	0	60	197	556	929	936	893	457	285	106	0	4419	
SALISBURY FAA AIRPORT	0	0	83	240	604	967	992	934	500	330	162	7	4819	
SAVAGE RIVER DAM	25	18	233	411	804	1225	1263	0	790	488	308	92	5657	
SINES DEEP CREEK	76	47	261	453	808	1249	1327	1242	840	552	114	114	6712	6712
SNOW HILL	0	0	81	222	592	956	957	896	481	318	135	8	4646	4143
SOLOMONS	0	0	26	133	530	916	942	903	486	253	82	0	4271	3891
SUITLAND	0	0	101	201	601	1001	1073	1032	542	290	113	8	4271	
TOWSON	0	0	226	441	645	1040	1108	1017	578	315	122	5	5996	
UNIONVILLE	4	0	153	321	738	1168	1208	1095	681	415	191	22	5996	
U S SOLDIERS HOME D C	0	1	113	261	672	1065	1079	985	556	318	135	11	5196	
UPPER MARLBORO 3 NNW	1	6	121	260	673	1048	1104	1036	549	333	156	21	5308	
VIENNA	0	0	60	198	565	956	988	932	501	297	113	7	4617	
WALDORF POLICE BRKS	0	0	78	228	653	1028	992	915	478	271	104	5	4752	
WASHINGTON WB CITY DC	0	0	91	196	634	963	951	892	455	239	84	3	4508	
WESTERNPORT	4	0	135	275	692	1095	1103	994	629	361	147	23	5458	4948
WESTMINSTER	2	0	141	300	717	1130	1173	1090	648	373	158	11	5743	5037
WHEATON REGIONAL PARK	0	0	112	254	683	1065	1117	1027	591	327	145	11	5332	
WOODSTOCK	1	0	125	286	691	1094	1130	1042	620	359	161	13	5522	4963
DELAWARE														
BRIDGEVILLE 1 NW	0	1	86	236	632	1001	1000	947	526	319	125	6	4879	4409
DOVER	0	1	69	200	620	1014	1023	923	546	308	125	3	4832	4354
GEORGETOWN 5 SW	0	0	78	243	620	1005	986	947	502	340	136	9	4866	
LEWES 1 SW	0	0	77	221	591	961	979	930	516	347	170	14	4806	
MIDDLETOWN 2 S	0	1		666	1068	1151								
WILFORD 3 NNW	0	1	81	233	662	1010	1002	943	513	330	130	17	4922	
NEWARK UNIVERSITY FARM	0	1	112	286	689	1076	1120	1041	636	350	158	6	5475	
SELBYVILLE	2	0	78	235	589	956	977	925	495	352	148	12	4769	
WILMINGTON NCASTLE WB AP	0	4	113	266	672	1072	1130	1044	641	370	180	10	5502	4930
WILMINGTON PORTER RESVR	1	8	125	263	674	1068	1134	1063	655	369	175	11	5546	

See reference notes following Station Index.

STATION INDEX

MARYLAND AND DELAWARE
1953

STATION	INDEX NO.	COUNTY	DRAINAGE I	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES					OBSERVER	
							TEMP.	PRECIP.	EVAP.	SPECIAL	WIND		
MARYLAND													
ANNAPOLIS 2 WNW	0193	ANNE ARUNDEL	1	38 59	76 31	70	5P	5P					
BALTIMORE WB AIRPORT	0445	ANNE ARUNDEL	1	39 17	76 40	148	MID	MID					
BALTIMORE WB CITY	0470	BALTO CITY	1	39 17	76 37	14	MID	MID					
BELTSVILLE	0700	PRINCE GEORGES	3	39 02	76 53	120	8A	8A					
BELTSVILLE PLANT STA 5	0705	PRINCE GEORGES	3	39 01	76 57	100	9A	9A					
BENSON POLICE BARRACKS	0732	HARFORD	1	39 30	76 23	360	5P	5P					
BITTINGER 2 NW	0881	GARRETT	1	39 37	79 15	2700	7P						
BLACKWATER REFUGE	0915	DORCHESTER	1	38 26	76 08	5	4P	4P					
BOONSBORO	0986	WASHINGTON	3	39 31	77 59	735	6P	6P					
BOYDS 2 NW	1032	MONTGOMERY	3	39 12	77 20	580	6P	6P					
BRIGHTON DAM	1125	MONTGOMERY	4	39 12	77 03	350	8A						
BROOKDALE	1170	MONTGOMERY	3	38 57	77 06	260	7A						
CAMBRIDGE 4 W	1385	DORCHESTER	1	38 04	76 09	5	6P	6P					
CENTREVILLE	1627	QUEEN ANNES	1	39 03	76 03	48	6P	6P					
CHARLOTTE HALL 1 ESE	1686	ST MARYS	4	38 28	76 45	167	5P	5P					
CHESTERTOWN	1750	KENT	3	39 13	76 04	39	11P	11P					
CHEMUNVILLE BRIDGEPORT	1790	WASHINGTON	3	39 22	76 08	78	6P	6P					
COLEMAN 3 WNW	1980	KENT	3	39 21	76 08	78	6P	6P					
COLLEGE PARK	1995	PRINCE GEORGES	4	39 39	76 56	70	5P	5P					
CONNINGO DAM	2060	HARFORD	1	39 39	76 10	40	MID	MID					
CRISFIELD HAMMOCK PT	2205	SOMERSET	1	37 38	75 52	7	5P	5P					
CUMBERLAND	2280	ALLEGANY	3	39 39	78 45	945	6P	8A					
CUMBERLAND POLICE BRKS	2285	ALLEGANY	3	39 38	78 50	970	5P	5P					
DENTON 1 S	2520	CAROLINE	1	38 53	79 50	230	6P	6P					
EASTON POLICE BARRACKS	2700	TALBOT	1	38 45	76 04	40	5P	5P					
EDGEWOOD	2770	WASHINGTON	3	39 40	77 33	905	8A						
EDGEWOOD ARSENAL	2800	CECIL	1	39 36	75 50	26	6P	6P					
ELKTON	2860	CECIL	1	39 36	75 50	26	6P	6P					
EMWITSBURG 2 SE	2968	FREDERICK	3	39 41	77 18	420	5P	5P					
FREDERICK G. MEADE	3120	ANNE ARUNDEL	1	39 21	76 19	16	MID	MID					
FREDERICK WB AIRPORT	3350	FREDERICK	3	39 25	77 23	294	MID	MID					
FROSTBURG	3410	ALLEGANY	3	39 39	78 56	2035	7A	7A					
GLEN DALE BELL STA	3795	GARRETT	1	39 42	78 09	2381	4P	4P					
GRANTSVILLE	3975	WASHINGTON	3	39 19	77 44	660	6P	6P					
HAGERSTOWN	4030	WASHINGTON	3	39 42	78 11	428	8A	8A					
HANCOCK FRUIT LAB	5080	CHARLES	5	38 32	77 00	180	5P	5P					
LA PLATA 1 W	5111	PRINCE GEORGES	4	39 06	76 54	400	5P	8A					
LAUREL 3 W	5203	ST. MARYS	4	39 19	76 30	40	5P	5P					
LEONARDTOWN 3 NW	5340	BALTIMORE	1	39 26	76 33	190	5P						
LOCH RAVEN DAM	5350	ALLEGANY	3	39 26	76 33	190	5P						
LUKE	5894	GARRETT	1	39 16	75 51	30	6P	6P					
MERRILL	5985	KENT	3	39 16	75 51	30	6P	6P					
MILLINGTON	6405	GARRETT	1	39 24	76 07	2950	8A						
NEW GERMANY	6820	GARRETT	1	39 24	76 24	2420	5P	5P					
OAKLAND 1 SE	6870	DORCHESTER	1	38 20	75 05	17	4P	4P					
OCEAN CITY WATER PLANT	6770	CALVERT	6	38 42	76 41	120	7P	7P					
OWINGS FERRY LANDING	6844	BALTIMORE	1	39 38	76 42	600	11P	11P					
PARKTON 2 SW	6980	CECIL	1	39 33	76 04	40							
PERRY POINT													

1-CHESAPEAKE, 2-COASTAL, 3-PATAPSCO, 4-PATUXENT, 5-POTOMAC, 6-SUSQUEHANNA, 7-YOUGHEGANY

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, indicate 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 1956.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. Monthly degree day totals are the sum 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 Gage Station. Hourly precipitation values are processed for special purposes, and are published later in "Hourly Precipitation Data" Bulletin.
- G "Soil" Temperature Table.
- H "Snowfall and Snow on Ground" Table. Omission of data in any month indicates no snowfall and/or snow on ground in that month.
- J "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.
- + Fastest 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 and 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.
- AR This entry is time of observation column in Station Index means after rain.
- AM Data based on observational day ending before noon.
- M 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 snow snowfall.
- N 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.
- R Amounts from recording gage. (These amounts are essentially accurate but may vary slightly from the amounts to be published later in Hourly Precipitation Data.)
- SS This entry is 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 is 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, exposures, 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: 20 cents per copy, monthly and annual; \$2.50 per year. (Early subscription includes the Annual Summary). Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

MARYLAND AND DELAWARE

