



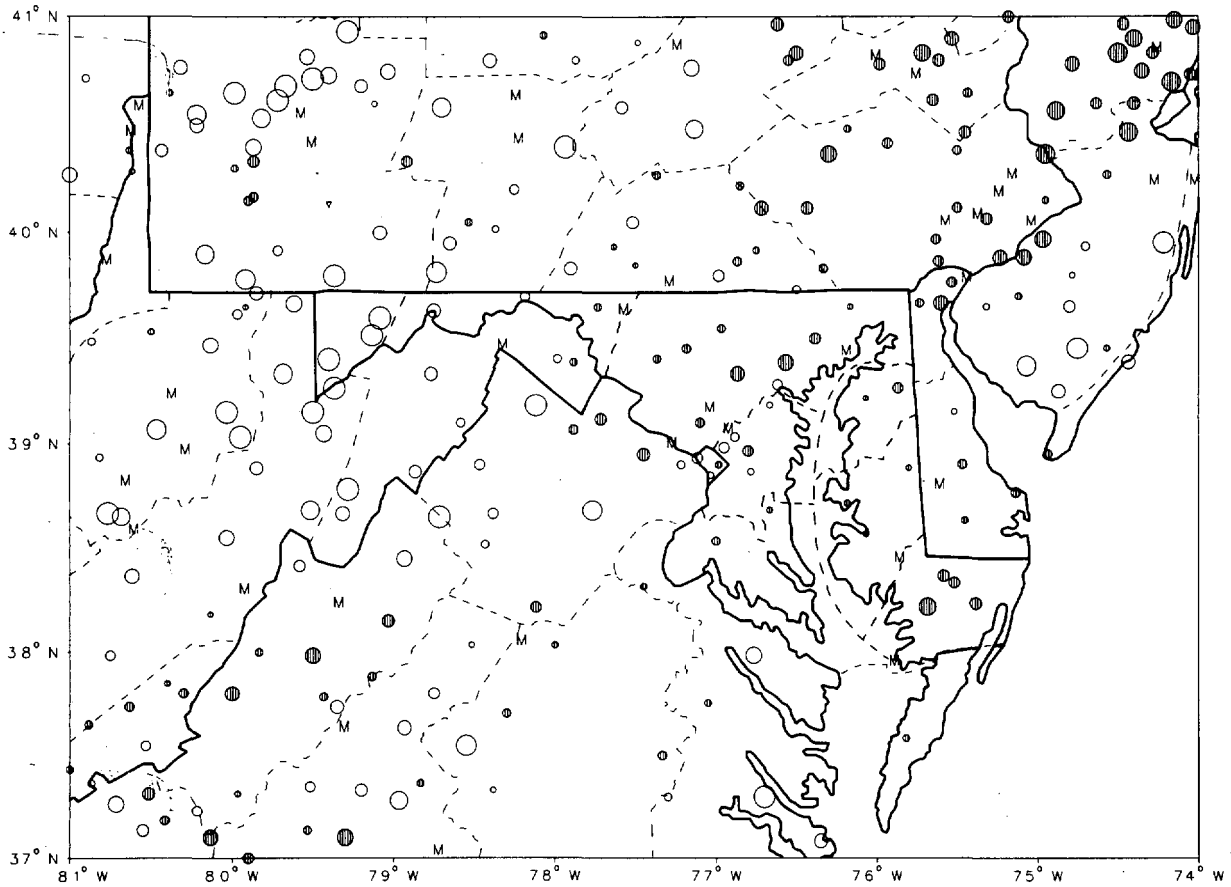
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CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

JULY 1988
VOLUME 92 NUMBER 7

MONTHLY PRECIPITATION DEPARTURE FROM INDIVIDUAL STATION NORMALS (1951-1980)

- M INCOMPLETE DATA FOR THE MONTH
- ∇ EXACTLY NORMAL
- ○ ○ ○ ○ 5, 10, 20, ... 50% OR MORE BELOW NORMAL
- ● ● ● ● 10, 20, 40, ... 100% OR MORE ABOVE NORMAL



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC DATA CENTER.

Kenneth D. Nadeau

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND AND
DELAWARE
JULY 1988

MARYLAND
 HIGHEST TEMPERATURE 104
 LOWEST TEMPERATURE 33
 GREATEST TOTAL PRECIPITATION 9.36
 LEAST TOTAL PRECIPITATION 1.45
 GREATEST 1 DAY PRECIPITATION 4.85

JULY 17+
 JULY 1

7 STATIONS
 OAKLAND 1 SE
 PRINCESS ANNE
 SAVAGE RIVER DAM
 PRINCESS ANNE

JULY 23

DELAWARE
 HIGHEST TEMPERATURE 101
 LOWEST TEMPERATURE 41
 GREATEST TOTAL PRECIPITATION 8.29
 LEAST TOTAL PRECIPITATION 4.19
 GREATEST 1 DAY PRECIPITATION 3.80

JULY 17+
 JULY 1

2 STATIONS
 NEWARK UNIVERSITY FARM R
 WILMINGTON WSO AP R
 DOVER
 WILMINGTON WSO AP R

JULY 21

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
JULY 1988

STATION	TEMPERATURE (°F)										PRECIPITATION (IN)									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS			TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW SLEET					
									90 OR ABOVE MAX	32 OR BELOW M	0 OR BELOW N				TOTAL	DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
MARYLAND																				
SOUTHERN EASTERN SHORE 01																				
ASSATEAGUE ISLAND NATL SE	82.9	63.1	73.0		9731	52 3	0	259 5	0 0 0	4.75		1 22 13	.0	.0			9 3 2			
CRISFIELD SOMERS COVE																				
PRINCESS ANNE	90.0	66.2	78.1	2.1	9817	43 1	5	420 19	0 0 0	9.36	5.54	4 8 5 23	.0	.0			7 5 2			
SALISBURY	89.0	66.5	78.8	1.8	9716	50 1	2	433 15	0 0 0	6.68	2.92	2 8 7 23	.0	.0			8 4 3			
SALISBURY FAA AP	88.8	66.5	78.7	2.2	9816	49 1	2	433 14	0 0 0	7.40	3.00	2 8 6 23	.0	.0			8 4 2			
SNOW HILL 4 N	89.1	67.0	78.1	2.2	9617	45 1	3	414 16	0 0 0	7.16	3.17	1 9 4 22	.0	.0			11 4 3			
--DIVISIONAL DATA-->																				
CENTRAL EASTERN SHORE 02																				
CAMBRIDGE WTR TRMT PL	91.9	69.9	80.9	4.0	10117	59 3+	0	504 23	0 0 0	4.61	.30	1 17 22	.0	.0			9 5 1			
DENTON 2 E	93.1	68.7	80.9	4.0	10410	51 2	0	501 23	0 0 0	4.53	.19	1 9 0 23	.0	.0			6 4 1			
ROYAL OAK 2 SSW	89.5	71.1	80.3	2.6	9717+	56 2+	0	481 17	0 0 0	4.93	.54	1 33 12	.0	.0			7 4 3			
VIENNA																				
--DIVISIONAL DATA-->																				
LOWER SOUTHERN 03																				
LA PLATA 1 W	87.5	67.0	77.3	1.4	9916	46 1	4	391 12	0 0 0	5.48	1.45	1 35 22	.0	.0			8 5 2			
MECHANICSVILLE 1 E	89.2	67.5	78.4		10116	45 1	5	428 14	0 0 0	5.55		1 47 23	.0	.0			8 4 3			
OWINGS FERRY LANDING	90.5	68.0	79.3	3.0	10016+	46 1	4	453 16	0 0 0	4.00	.34	1 43 22	.0	.0			6 3 1			
PATUXENT RIVER	88.1	69.5	78.8		9917+	56 1	0	437 13	0 0 0	3.49		1 18 12	.0	.0			8 2 1			
--DIVISIONAL DATA-->																				
UPPER SOUTHERN 04																				
ANNAPOLIS POLICE BRKS	92.3	66.1	79.2		9817+	50 1	0	447 23	0 0 0	4.78		1 29 28	.0	.0			6 5 1			
BALTIMORE WSO AP	91.9	68.6	80.3	3.5	10416	50 1	2	485 22	0 0 0	3.78	-.11	1 7 5 23	.0	.0			5 3 1			
BELTSVILLE	91.5	66.6	79.1	3.9	10317	45 1	5	451 21	0 0 0	3.72	-.42	1 3 4 25	.0	.0			7 2 2			
COLLEGE PARK	91.7	69.4	80.6	3.4	10417	50 1	0	492 21	0 0 0	3.41	-.65	1 9 7 27	.0	.0			6 2 0			
DALECARLIA RESVR D C	93.1	64.7	78.9	1.7	10317+	44 1	4	444 22	0 0 0	3.37	-.67	1 13 27	.0	.0			6 3 1			
GLENN DALE BELL STN	91.3	64.3	77.8	2.2	10217	40 1	7	412 19	0 0 0	7.18	2.87	3 8 4 27	.0	.0			8 4 1			
LAUREL 3 W																				
NATIONAL ARBORETUM D C	93.5	66.5	80.0	2.3	10318+	47 1	0	473 22	0 0 0	5.09	.89	2 27 27	.0	.0			9 2 2			
UPPER MARLBORO 3 NNW	91.0	66.0	78.5		10217	43 1	8	434 20	0 0 0	3.90	-.16	1 02 18	.0	.0			8 4 1			
--DIVISIONAL DATA-->																				
NORTHERN EASTERN SHORE 05																				
CHESTERTOWN	91.0	69.9	80.5	3.6	10116+	53 1	0	487 21	0 0 0	4.00	.06	1 17 21	.0	.0			6 4 2			
MILLINGTON 1 SE	89.5	67.1	78.3	2.7	9910	46 1	3	422 16	0 0 0	6.23	2.36	2 7 7 24	.0	.0			5 4 2			
--DIVISIONAL DATA-->																				
NORTHERN CENTRAL 06																				
ABERDEEN PHILLIPS FLD	90.6	68.3	79.5		9917+	48 1	4	455 19	0 0 0	5.56		1 5 4 26	.0	.0			5 4 1			
BALTIMORE WSO CI	93.6	74.6	84.1	4.2	10410	58 1	0	599 23	0 0 0	3.46	-.57	1 5 4 26	.0	.0			6 2 1			
BENSON POLICE BARRACKS	92.5	66.5	79.5	4.6	10211+	48 1	2	460 24	0 0 0	7.68	3.33	2 5 3 24	.0	.0			6 6 2			
BOYDS 2 NW	89.1	66.7	77.9		10016	48 1	4	412 15	0 0 0	5.60		1 06 24	.0	.0			11 5 1			
CATOCTIN MOUNTAIN PARK	84.2	66.2	75.2		96 7	48 1	9	333 8	0 0 0	3.47		1 29 19	.0	.0			9 2 1			
CLARKSVILLE 3 NNE	92.1	64.3	78.2		10317+	40 1	8	425 22	0 0 0	5.60		2 5 8 23	.0	.0			8 7 1			
CONOWINGO DAM	91.0	63.4	77.2	2.1	10011+	50 2	0	386 18	0 0 0	4.57	.20	1 9 8 24	.0	.0			7 3 2			
DAMASCUS 2 SW	89.8	66.4	78.1		10116	45 1	6	421 17	0 0 0	5.57		2 30 20	.0	.0			8 3 1			
EMMITSBURG 2 SE	90.2	64.6	77.4		10116	46 1	5	399 18	0 0 0	4.02		1 7 3 19	.0	.0			8 5 0			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
JULY 1988

STATION	TEMPERATURE (°F)											PRECIPITATION (IN)									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW, SLEET					
									90 OR ABOVE MAX	32 OR BELOW MIN	32 OR BELOW MIN	0 OR BELOW MIN				TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
FREDRICK POLICE BRKS	92.6	66.9	81.6		104 17+	53 1	0	5 19	2 3	0 0	0 0	4.47		1.4					8 3	1	
MILLERS 4 NE	87.6	66.6	77.2		99 16	49 1		3 9	2 13	0 0	0 0	4.51		1.1					9 4	1	
ROCKVILLE 1 NE	88.6	66.8	79.2	3.5	99 16	49 1		4 5	2 15	0 0	0 0	5.56	1.78	2.2				10 8	4	2	
TOWSON	90.6	66.2	79.4		100 16+	48 1		4 5	1 18	0 0	0 0	9.11	4.98	2.4				10 5	5		
UNIONVILLE	93.6	66.6	77.8	4.2	103 17	39 2		4 1	2 3	0 0	0 0	5.25	1.66	2.4				11 3	3	1	
WESTMINSTER POLICE BRK	92.8	64.7	78.8	4.6	103 16	40 2	106	4 3	2 4	0 0	0 0	5.37	1.37	1.5				10 6	6	1	
WOODSTOCK	91.9	66.3	79.1	4.2	102 16	44 1	50	4 5	2 2	0 0	0 0	7.25	3.69	2.2				9 6	6	3	
--DIVISIONAL DATA-->			78.8	3.7								5.43	1.53								
APPALACHIAN MOUNTAIN 07																					
CUMBERLAND 2	92.3	64.9	78.6	4.2	104 16	47 1		4 4	12 0	0 0	0 0	2.40	-.79	.71	24			7 1	0		
FROSTBURG 2	83.3	61.6	72.5		96 17	43 1		2 3	26 1	9 0	0 0	3.19		.75	24			7 7	3	0	
HAGERSTOWN	91.5	67.4	79.5	4.6	104 16	47 1		4 4	5 8	17 0	0 0	4.27	-.93					7 2	0		
HANCOCK FRUIT LAB	91.4	61.4	76.4	3.5	102 17+	40 4		1 1	3 7	0 18	0 0	3.08	-.48	.98	12			9 1	0		
--DIVISIONAL DATA-->			76.8	3.4								3.24	-.18								
ALLEGHENY PLATEAU 08																					
MC HENRY 2 NW	82.9	61.0	72.0		94 17+	40 1		2 4	2 4	7 0	0 0	2.81		1.00	12			5 2	1		
OAKLAND 1 SE	84.6	57.3	71.0	3.6	95 16	33 1		2 9	2 1	8 0	0 0	2.02	-2.66	.69	12			5 2	0		
SAVAGE RIVER DAM	84.6	59.6	72.1	2.6	98 9	40 1		1 9	2 4	7 0	0 0	1.45	-2.17	.49	21			4 0	0		
--DIVISIONAL DATA-->			71.7	4.0								2.09	-2.18								
DELAWARE NORTHERN 01																					
MIDDLETOWN 3 E	89.2	67.5	78.4		100 17+	46 1		4 4	22 12	0 0	0 0	4.88		1.6	22			6 3	2		
NEWARK UNIVERSITY FARM	91.0	67.0	79.0	3.3	101 16	41 1		7 4	4 7	20 0	0 0	5.99	1.67	1.8	22			8 4	2		
WILMINGTON WSD AP	89.2	69.5	79.4	3.4	100 17+	48 1		3 3	4 5	14 0	0 0	8.29	4.39	3.80	21			6 5	2		
WILMGTN PORTER RESVR	89.6	69.6	79.6	4.7	100 17+	52 1		2 2	4 6	3 15	0 0	6.58	2.45	2.0	21			9 5	2		
--DIVISIONAL DATA-->			79.1	3.4								6.44	2.44								
DELAWARE SOUTHERN 02																					
DOVER	92.8	68.8	80.8	3.8	101 17+	57 1		0 4	9 8	22 0	0 0	4.19	-.08	.93	28			7 5	0		
GEORGETOWN 5 SW	89.0	67.5	78.3	2.2	99 12	44 1		4 4	2 0	15 0	0 0	4.82	.80	2.4	12			7 2	1		
GREENWOOD 2 NE																					
LEWES	88.0	69.6	78.8	3.6	96 17+	53 1		1 4	3 4	14 0	0 0	6.42	2.26	2.4	12			10 4	2		
MILFORD 4 SE	89.8	68.7	79.3	2.8	100 11	49 1		0 4	4 9	15 0	0 0	6.53	2.15	3.4	12			8 3	2		
--DIVISIONAL DATA-->			79.3	3.1								5.49	1.26								

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
JULY 1988

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																																	
SOUTHERN EASTERN SHORE 01																																	
ASSATEAGUE ISLAND NATL SE CRISFIELD SOMERS COVE	4.75					T	T			.66	.49	T		1.22			T		.07	.25		.25	.15	.35		.10	.03			1.18			
PRINCESS ANNE	9.36		.06			.06			.46	.27	.02		.57	.22				.04	.59		.09		.08	4.85	1.31			.75	.87				
SALISBURY	6.68				.11				.27	.02		1.00									.04		.18	1.83	.49			.27	1.87		.01		
SALISBURY FAA AP	7.40								.26	.04		.56						.41	T	T			.58	2.86			.35	2.24	1.10				
SNOW HILL 4 N	7.16								.32	.22		.55	.16							.28	.46	.02		1.94	1.17	.14			.29	1.61			
CENTRAL EASTERN SHORE 02																																	
CAMBRIDGE WTR TRMT PL	4.61											.52	.13						.89		.67		1.17	.10	.63			.31	.19				
DENTON 2 E	4.53											.40							.58		.01		.35	1.90	.70			.54	.05				
ROYAL OAK 2 SSW	4.93	T										1.33							1.15		.20		.18	1.22	.07			.68	.10				
VIENNA	M																																
LOWER SOUTHERN 03																																	
LA PLATA 1 W	5.48									.98		.10							1.01	.03	.77	.22	1.35	.29	.06			.61	.06				
MECHANICSVILLE 1 E	5.55									.37		.08							1.32	.18	1.15	.43	.53	1.47	.03		.15	.23	T		.04		
OHINGS FERRY LANDING	4.00		.09									.60								.07	.08	.44		.72				.30	.06				
PATUXENT RIVER	3.49									T		1.18						.40	.06	.26		.14	.37	.53			.30	.25					
UPPER SOUTHERN 04																																	
ANNAPOLIS POLICE BRKS	4.78											.69	.02						.50		.07	.05	.42		.89			.85	1.29				
BALTIMORE WSO AP	3.78									T		.08	.03					.10	.03	.02	.39	.50	T	1.75			.88	T	T				
BELTSVILLE	3.72		.02								.02	.14	.06						.18	.01	.05	.12	.33		1.34		1.21	.24					
COLLEGE PARK	3.41											.43	.05						.20	.07	.08	.44		.72			.97	.38					
DALECARLIA RESVR D C	3.37										.03	.14							.07	.92	.07	.26	.60	.12	.03			1.13					
GLENN DALE BELL STN	7.18		.06								.36	.12							.77		.12	.10	.95	.02	.80			3.84	.04				
NORTHERN EASTERN SHORE 05																																	
LAUREL 3 W	M																																
NATIONAL ARBORETUM D C	5.09										.03	.10	.09					.46		.15	.20	.12	1.18	.02	.32			2.27	.15				
UPPER MARLBORO 3 NNW	3.90		T								.10	.05	.14					1.02		.14	.07	.53	.05	.73			.94	.13					
NORTHERN CENTRAL 06																																	
CHESTERTOWN	4.00											.17						.52		T	T	1.17	.09	.73			1.15	T	.17				
MILLINGTON 1 SE	6.23										.06	.40							1.46			.02	.77		2.77			.68	.07				
NORTHERN CENTRAL 06																																	
ABERDEEN PHILLIPS FLD	M 5.56											.03	.83	T					.27	T		.59	1.01	*	*	1.45		.91	.47				
BALTIMORE WSO CI	3.46											.38	.03						.14	.09	.33	.09	.60	.07	.19		1.54						
BENSON POLICE BARRACKS	7.68										.03	.78							.12	.44	.01	.76	.55		2.53			1.51	.95				
BOYDS 2 NW	5.60									.71		.25	.09						.03	.48	.70	.85	.15	.76	1.06		.25	1.11					
BRIGHTON DAM	M																																
CATOCTIN MOUNTAIN PARK	3.47										.05	.35						.10		1.29	.12	.50	.18	.38	.03			.28	.07			.20	
CLARKSVILLE 3 NNE	5.60									.11	.06	.46							.07	.18	.73	.93	2.58	.13				.54	.08				
CONDWINGO DAM	4.57									.04	.02	.06	.10						.23	.10		1.19	.23	1.98				.54	.08				
DAMASCUS 2 SW	5.57		T							.10	.17	.04							.34	2.30	.29	.09	.90				.35	.07					
EMMITSBURG 2 SE	4.02									.67	.50	.17						.67	.20		.73	.05	.62	T	.04		T	.05					
FREDRICK POLICE BRKS	4.47									.28		.25							.34	1.45	.93	.10	.92					.20					
FREDRICK 3 E	4.82		T							.22		.08							.15	T	2.21	.20				1.25	.10	.26	.28				
MILLERS 4 NE	4.51									.75		T	.17						.62		.09	.32	1.18	.29	.31	.13		T	.58	T			
POTOMAC FILTER PLANT	M																																
ROCKVILLE 1 NE	5.56									.35		1.15	.10					.35	.51	.32	.97	.20		1.24		.30	.07						
NORTHERN CENTRAL 06																																	
TOWSON	9.11											2.01	.02						.08	.18		1.00	.30	2.02		.46	1.03	2.01					
UNIONVILLE	5.25										.25	.04							1.79	.19	.89	.39	.18	.79	.13		.20	.07	.09				
WESTMINSTER POLICE BRK	5.37										.50	.53							.75	.21	.01	1.50	.29	.05	.60	.13	.10	.53	.30				
WOODSTOCK	7.25										T	.08	1.15						.05	.10	.55	.69	.25	2.22	.28		1.20	.68					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
JULY 1988

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
APPALACHIAN MOUNTAIN 07																																
CUMBERLAND 2	2.40								.15			.08	.05	T			.49		.13	.22	.38	.13		.71				.06				
EDGEMONT	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FROSTBURG 2	3.19		T						.01			.08	.15		.03				.19	.71	.42	.25		.75			T	.60				
HAGERSTOWN	4.27								.10			.67	.45				.35		.44	.70	.21	T	*	1.03								
HANCOCK FRUIT LAB	3.08	.05									.35	.98							.26	.10	.33	.13	.10	.42						*	.32	
ALLEGHENY PLATEAU 08																																
MC HENRY 2 NW	2.81											1.00	.16							T	.95	.47	.21		.02			T				
MERRILL	1.59											.20	.15			.03			.18	.45	.50	.08										
OAKLAND 1 SE	2.02										T	.69					T		.12	.38	.65	.03	.12	T	.01		.03	T				
SAVAGE RIVER DAM	1.45											.22	.34	T	T	T			.09	.22	.49	.07	.01	.01				T				
DELAWARE NORTHERN 01																																
MIDDLETOWN 3 E	4.88											.15					1.30						1.62	.32	.97				.47		.05	
NEWARK UNIVERSITY FARM	5.99											.43					1.00				.67	1.85	.35	.45				.90	.34			
WILMINGTON HSD AP	8.29	T				T				.02	.08						.59			.58	3.80	T	2.13				.84	.01	.24			
WILMINGTON PORTER RESVR	6.58				.18	T				.04	.26						.93		.01	.60	2.08	.13	1.35			.86	.03	.11				
SOUTHERN 02																																
DOVER	4.19								.01			.65	.02						.44			.57	.53	.60				.42	.93	.02		
GEORGETOWN 5 SW	4.82									.20		.85							.24		.09		2.41	.35				.27	.37	.04		
GREENWOOD 2 NE	M																															
LEWES	6.42	T							.17	.76	.02		2.49	.19					.19		.19		T	1.08	.88			.15	.30			
HILFORD 4 SE	6.53									.03			3.46	.12					.21				.40	.85	.12			.22	1.12			

SEE REFERENCE NOTES FOLLOWING STATON INDEX

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

MARYLAND AND
DELAWARE
JULY 1988

STATION	JUL		AUG		SEP		OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		TOTAL		TOTAL PRECIPITATION					
	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD						
MARYLAND																																
SOUTHERN EASTERN SHORE 01																																
ASSATEAGUE ISLAND NATL SE										.5	0			4.5	10									M	.5	10	32.85					
SALISBURY														4.4	10												35.21					
SALISBURY FAA AP						T	0			2.8	1	.5	0	4.4	10	T	0	T	0	T	0					7.7	11	36.73				
SNOW HILL 4 N										2.0	0		0	4.5	4	.2	0	T	0	T	0					6.7	4	36.41				
CENTRAL EASTERN SHORE 02																																
CAMBRIDGE WTR TRMT PL										4.3	0			6.0	10			T	0	T	0						10.3	10	32.63			
DENTON 2 E										3.5	0	4.5	0	10.5	10												18.5	M	33.74			
ROYAL OAK 2 SSW										2.0	0		0	8.0	10	.5	0	.2	0	T	0						10.7	10	29.89			
VIENNA												M	0	5.0	0									M	5.0	M	5.0	M	25.79			
LOWER SOUTHERN 03																																
LA PLATA 1 W										6.8	4	T	0	11.6	22	T	0	1.9	0	T	0						20.3	26	39.64			
MECHANICSVILLE 1 E										5.0	3	T	0	10.0	17	.3	0	.5	0	.3	0						16.1	20	37.42			
OWINGS FERRY LANDING										5.0	2	T	0	8.7	13			1.5	0								15.2	15	33.30			
PATUXENT RIVER										5.2	2	T	0	6.5	11	T	0			T	0						11.7	13	38.21			
UPPER SOUTHERN 04																																
ANNAPOLIS POLICE BRKS										M	0		0	10.5	11	M	0											10.5	11	33.71		
BALTIMORE WSO AP										6.0	3	T	0	13.7	15	.2	0	T	0	T	0						20.4	18	39.86			
BELTSVILLE										10.3	3	T	0	11.2	15													21.5	15	38.42		
COLLEGE PARK										8.8	3	T	0	11.5	18													20.3	21	38.70		
DALECARLIA RESVR D C										M	0		3											M	3	M	3	36.04				
GLENN DALE BELL STN										15.0	0		0	16.5	0	1.0	0											32.5	M	36.61		
LAUREL 3 W										16.0	0	T	0															16.0	M	33.76		
NATIONAL ARBORETUM D C										13.0	0		0	9.5	0	M	0											22.5	M	42.99		
UPPER MARLBORO 3 NNW										9.0	3		0	11.0	21	T	0	T	0									20.0	24	36.47		
NORTHERN EASTERN SHORE 05																																
CHESTERTOWN										2.0	1	.8	1	7.6	16	1.0	1												11.4	19	36.63	
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD										M	0		1	12.0	0	T	0	T	0										13.0	M	37.78	
BENSON POLICE BARRACKS										3.0	1	M	0	14.5	18	1.0	1												18.5	21	46.01	
BOYDS 2 NW										M	0		1	11.0	14					T	0								12.0	17	41.63	
BRIGHTON DAM										7.0	0		1																8.0	M	33.90	
CATOCTIN MOUNTAIN PARK										3.5	0		3	14.0	24	T	0	M	0										21.0	M	41.88	
CLARKSVILLE 3 NNE										8.2	3	2.7	3	13.3	20	1.8	0	T	0										26.0	26	41.79	
CONOWINGO DAM										M	0		0	8.8	0														8.8	M	49.63	
DAMASCUS 2 SW										5.3	2	1.5	3	12.7	17	.9	0	.2	0	T	0	T	0					20.6	22	49.61		
EMMITSBURG 2 SE										3.0	1	2.0	2	10.0	17	1.0	0	T	0										16.0	20	39.89	
FREDRICK POLICE BRKS										1.7	1	T	0	9.0	0														10.7	M	39.75	
FREDERICK 3 E										M	0		1	15.0	0	T	0			T	0								15.0	M	45.88	
MILLERS 4 NE																																
POTOMAC FILTER PLANT										5.5	1							.4	0	T	0	T	0						5.5	M	30.79	
ROCKVILLE 1 NE										4.5	1	.5	1	7.2	15	T	0	T	0	T	0								12.2	17	43.68	
UNIONVILLE										2.8	0		0			T	0			T	0								3.3	M	37.73	
WESTMINSTER POLICE BRK										3.0	1	1.0	1	19.5	17	2.0	0												25.5	19	42.54	
WOODSTOCK										6.5	2	2.0	2	13.5	19	1.5	0													23.5	M	39.47

SEE REFERENCE NOTES FOLLOWING STATION INDEX

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

MARYLAND AND
DELAWARE
JULY 1988

STATION	JUL		AUG		SEP		OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		TOTAL		TOTAL PRECIPITATION
	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	
APPALACHIAN MOUNTAIN 07																											
CUMBERLAND 2									5.0	3	3.0	3	9.0	16	2.0	-	.5	1							19.5	23	31.94
EDGEMONT									3.1	-	1.0	-	7.5	-											11.6	M	36.16
FROSTBURG 2							T	0	17.8	7	23.7	16	21.7	23	21.7	21	22.7	10	1.2	1				108.8	78	36.95	
HAGERSTOWN									2.5	-	1.0	3	7.0	14	.3	-									10.8	17	26.06
HANCOCK FRUIT LAB									8.5	5	1.0	3	9.0	9	1.5	2	T	0							20.0	19	36.68
ALLEGHENY PLATEAU 08																											
MC HENRY 2 NW									20.0	9	25.5	16	18.5	24	25.0	24	20.0	14	6.5	2				115.5	89	44.84	
MERRILL									10.0	-	12.1	9	15.4	-	6.3	5	5.1	7	3.0	0				48.9	21	35.25	
OAKLAND 1 SE							T	0	17.3	6	23.3	-	23.0	-	15.6	-	15.5	8	3.8	-				98.5	14	36.26	
SAVAGE RIVER DAM									8.0	8	8.0	9	10.5	16	3.0	5	2.0	2	T	0				31.5	40	33.61	
DELAWARE																											
NORTHERN 01																											
MIDDLETOWN 3 E										T	0	1.0	-	-	-	-	-	-	-	-					1.0	M	35.45
NEWARK UNIVERSITY FARM									2.0	-	1.5	1	7.0	17											10.5	M	42.11
WILMINGTON WSO AP									.7	1	2.1	3	10.8	15	1.1	0	T	0	T	0				14.7	19	37.03	
WILMGTON PORTER RESVR									1.0	1			6.5	-											7.5	M	40.63
SOUTHERN 02																											
DOVER										M	0	.7	1	10.0	14	.1	0								10.8	15	37.43
GEORGETOWN 5 SW									1.0	2	T	0	5.7	-											6.7	M	39.24
GREENWOOD 2 NE									2.8	0	1.5	2	7.0	10	T	0			.6	1				11.9	13	36.51	
LEWES									.8	0	.8	-	4.5	-											6.1	M	34.55
MILFORD 4 SE									1.5	0	T	0	7.0	10	T	0									8.5	10	30.93

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JULY 1988

STATION	OB. TIME	MAX/MIN	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																																					
SOUTHERN EASTERN SHORE 01																																					
ASSATEAGUE ISLAND NATL	07	MAX OBS MIN	73 *** 54	79 52	77 59	81 59	78 62	79 65	81 65	79 64	80 64	79 64	88 64	83 64	84 64	84 67	87 65	87 68	91 70	85 76	82 70	90 67	90 63	78 62	79 60	72 64	85 58	83 63	80 64	78 64	89 63	92 59	97 67	82.9			
CRISFIELD SOMERS COVE	17	MAX MIN																																			M
PRINCESS ANNE	17	MAX MIN	78 43	81 46	88 52	88 61	89 54	91 59	91 66	89 66	86 65	86 72	93 70	92 70	91 68	91 72	95 72	97 65	98 74	95 72	93 73	90 62	91 77	89 71	78 71	86 71	86 71	90 69	90 71	87 67	87 68	87 68	91 67	93 73	93 73	90.0	
SALISBURY	17	MAX MIN	77 50	82 54	86 58	86 56	88 59	90 62	90 67	85 67	85 67	93 68	95 75	92 73	91 71	91 70	95 76	97 69	96 76	94 72	88 74	89 73	88 77	87 73	80 71	85 71	90 69	88 71	87 67	86 68	91 69	94 75	94 74	89.0			
SALISBURY FAA AP	MID	MAX MIN	76 49	80 50	88 55	88 62	89 57	92 63	89 63	83 68	83 68	95 66	97 76	84 73	92 70	92 70	95 70	98 67	97 75	93 76	90 74	89 75	89 75	81 73	79 72	87 73	91 70	88 69	88 68	88 69	84 70	92 76	94 74	91 74	88.8		
SNOW HILL 4 N	18	MAX MIN	78 45	82 50	88 54	88 65	87 54	93 57	90 68	85 67	82 64	92 63	95 73	93 73	91 70	92 68	92 73	94 65	96 76	93 73	89 72	88 74	90 75	82 73	83 71	87 71	90 68	87 67	88 67	86 67	91 68	95 74	94 72	89.1			
CENTRAL EASTERN SHORE 02																																					
CAMBRIDGE WTR TRMT PL	16	MAX MIN	80 59	83 62	88 59	93 67	90 62	96 64	96 71	93 68	91 72	95 69	100 74	98 73	91 72	92 71	96 74	100 71	101 78	99 72	92 75	91 71	90 71	90 77	90 71	82 71	85 71	89 67	90 71	87 68	84 69	94 70	97 74	97 75	91.9		
DENTON 2 E	17	MAX MIN	81 64	85 51	91 55	94 67	94 59	100 64	96 70	96 65	88 71	104 71	102 73	92 72	95 71	95 68	100 73	100 68	97 76	92 73	87 75	92 74	92 71	86 72	81 70	89 70	93 67	90 70	90 67	88 68	94 70	98 72	94 74	93.1			
ROYAL OAK 2 SSW	18	MAX MIN	77 56	81 56	87 61	87 69	87 67	92 65	97 72	90 70	90 74	97 74	96 75	91 72	91 73	95 76	97 73	97 80	93 73	91 77	87 75	89 76	87 73	81 71	85 71	88 67	87 73	84 69	82 69	91 71	94 78	92 76	89.5				
VIENNA	18	MAX MIN																																	M		
LOWER SOUTHERN 03																																					
LA PLATA 1 W	18	MAX MIN OBS	75 46 ***	78 51	85 56	86 64	85 61	90 59	93 68	90 68	90 70	93 68	90 70	84 72	88 67	90 68	92 73	99 71	98 76	96 72	88 71	86 71	87 71	85 69	80 69	82 67	85 64	86 70	82 66	82 66	89 70	91 71	87 73	87.5			
MECHANICSVILLE 1 E	19	MAX MIN	75 45	82 56	88 55	88 63	88 58	93 60	95 68	91 67	93 71	97 69	95 70	85 71	92 71	92 68	95 73	101 70	101 77	93 72	86 72	86 72	88 75	83 71	80 71	85 70	87 64	88 69	84 66	83 67	90 69	94 71	89 73	89.2			
OWINGS FERRY LANDING	17	MAX MIN	76 46	82 49	87 56	88 67	89 60	94 61	95 69	94 67	92 72	100 71	96 72	91 73	92 70	92 69	94 74	100 72	99 78	98 72	88 73	88 72	87 71	80 71	87 69	87 69	88 65	88 71	87 67	84 69	92 72	95 74	94 72	90.5			
PATUXENT RIVER	MID	MAX MIN	76 56	80 57	85 60	86 68	85 62	92 64	92 73	87 72	90 71	99 72	97 76	83 73	91 72	89 72	93 76	94 74	99 72	89 72	91 73	85 73	91 71	76 70	80 71	85 70	87 66	85 66	85 68	82 66	92 70	95 74	89 74	88.1			
UPPER SOUTHERN 04																																					
ANNAPOLIS POLICE BRKS	17	MAX MIN	79 50	84 53	88 59	90 62	91 63	94 66	97 71	96 70	89 72	98 71	98 68	97 67	92 65	93 63	95 70	97 69	98 78	96 72	92 72	91 71	91 71	91 68	91 68	89 68	89 61	89 65	89 64	89 62	91 61	97 60	97 67	96 67	92.3		
BALTIMORE WSO AP	MID	MAX MIN	76 50	83 52	90 57	91 62	90 62	98 64	97 69	97 68	91 70	102 71	100 73	84 73	93 72	97 69	98 75	104 70	101 78	95 74	92 74	92 73	90 73	87 72	83 69	89 69	91 67	89 69	82 67	85 68	95 71	97 74	90 72	91.9			
BELTSVILLE	08	MAX MIN	78 45	76 49	83 52	90 59	91 60	91 61	98 66	98 66	96 69	101 72	100 69	100 71	84 71	94 67	96 73	98 67	103 76	103 72	99 72	92 71	92 71	89 68	85 67	86 65	86 65	91 65	91 68	90 65	87 67	93 72	97 69	91.5			
COLLEGE PARK	09	MAX MIN	79 50	76 56	83 56	91 61	92 63	92 63	97 70	99 73	97 74	100 73	100 72	84 74	93 72	96 77	98 70	104 78	100 75	92 72	92 71	92 73	89 71	83 68	81 68	88 66	92 67	92 67	84 67	86 71	95 74	97 72	91.7				
DALECARLIA RESVR D C	17	MAX MIN	76 44	82 47	88 53	90 59	91 60	97 60	101 66	99 67	98 69	111 65	101 67	94 68	91 69	94 72	96 72	103 69	103 75	98 71	96 68	91 65	88 65	86 67	85 68	87 64	90 62	91 69	89 63	89 64	95 67	98 74	99 68	93.1			
GLENN DALE BELL STN	16	MAX MIN	77 40	84 44	86 50	88 58	91 57	94 59	96 64	96 63	93 67	95 68	99 66	99 70	90 67	94 65	95 71	97 68	102 74	99 70	93 72	89 71	89 70	88 66	80 66	80 66	89 61	91 67	89 62	83 64	93 68	94 74	96 68	91.3			
LAUREL 3 W	MID	MAX MIN																																	M		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JULY 1988

STATION	OBS. TIME	MAX/MIN	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		
NATIONAL ARBORETUM D C	08		88	77	84	92	93	90	98	100	99	98	103	98	88	95	98	103	102	103	97	94	95	92	84	87	89	93	92	85	88	96	99	93.5	
			47	56	58	54	54	64	68	67	70	70	70	68	71	68	73	70	75	73	72	72	69	68	68	65	62	68	65	67	68	71	69	66.5	
UPPER MARLBORO 3 NNW	08		78	76	83	88	90	90	97	98	97	95	100	99	81	94	96	100	102	100	93	90	90	88	81	81	88	92	90	84	86	95	99	91.0	
			43	45	51	59	57	60	67	64	68	69	68	72	71	67	73	69	73	72	73	72	71	72	70	67	64	68	65	65	68	72	71	66.0	
NORTHERN EASTERN SHORE	05																																		
CHESTERTOWN	23		76	83	90	91	92	95	97	92	89	101	100	81	92	97	98	101	99	95	90	90	87	82	82	87	91	90	85	85	94	97	91	91.0	
			53	59	61	64	64	66	70	71	73	72	74	73	72	70	76	71	76	73	75	75	71	72	71	70	68	67	69	70	73	74	73	69.9	
MILLINGTON 1 SE	18		77	82	87	89	91	94	94	91	89	99	97	92	81	93	96	97	97	92	92	87	85	85	82	85	89	87	86	83	91	95	91	89.5	
			46	51	53	53	60	63	68	67	70	68	71	72	70	67	73	65	76	72	74	74	73	72	70	70	65	69	66	70	69	71	71	67.1	
	OBS											83																							
NORTHERN CENTRAL	06																																		
ABERDEEN PHILLIPS FLD	16		75	82	89	91	88	92	97	95	89	99	96	96	92	92	95	99	99	91	90	88	88	86	82	86	90	90	87	82	93	96	93	90.6	
	OBS		*****																																
			48			63	62	70	69	71		70	71	68	70	77	74		71	72	71	69	68				66	72	65	68	67				68.3
BALTIMORE WSO CI	MID		76	86	91	92	90	101	98	99	91	104	102	84	95	99	100	103	103	95	94	92	89	85	84	92	95	90	84	88	100	103	97	93.6	
			58	62	67	72	72	75	79	77	77	78	74	77	77	77	85	78	81	79	77	74	76	75	73	72	74	69	70	72	77	81	79	74.6	
BENSON POLICE BARRACKS	17		77	83	90	91	92	98	100	95	90	102	102	98	94	95	97	99	98	95	94	91	90	87	83	88	91	91	86	84	95	98	95	92.5	
			48	53	55	63	61	62	67	66	68	66	70	68	69	66	77	66	74	70	71	73	70	71	66	67	66	70	64	66	66	73	68	66.5	
BOYDS 2 NW	18		74	80	87	89	90	94	98	97	96	96	96	80	88	92	92	100	96	92	89	88	85	85	81	83	87	85	81	86	91	94	90	89.1	
	OBS		48	52	57	63	63	65	71	68	65	67	67	69	70	62	76	71	76	72	71	69	70	69	68	65	64	68	65	66	71	73	68	66.7	
CATOCTIN MOUNTAIN PARK	17		66	75	81	79	84	87	96	91	91	92	92	77	82	87	88	95	94	90	87	81	80	76	77	78	81	80	80	80	89	88	85	84.2	
			48	52	58	63	66	67	74	69	72	71	68	67	64	68	73	72	72	70	68	69	65	64	66	63	64	63	63	65	70	72	66	66.2	
CLARKSVILLE 3 NNE	17		77	83	90	90	92	97	97	98	95	100	100	95	90	95	97	103	103	96	94	90	89	84	83	86	90	88	84	85	94	97	92	92.1	
			40	43	48	55	57	59	65	63	67	68	66	70	68	65	71	64	73	71	72	73	70	71	68	65	61	66	67	66	65	68	67	64.3	
CONOWINGO DAM	MID		79	85	86	91	89	95	96	92	86	100	100	81	94	92	98	98	99	94	95	90	87	87	83	89	92	89	82	85	97	95	95	91.0	
			55	50	51	58	59	60	64	64	65	63	64	67	65	65	68	65	70	68	69	68	68	67	64	63	59	65	62	62	66	67	64	63.4	
DAMASCUS 2 SW	19		73	81	88	90	90	95	98	98	95	99	97	82	91	94	97	101	98	94	89	91	86	83	76	85	88	86	82	85	92	94	87	89.8	
			45	49	54	61	63	64	69	68	69	68	70	69	68	68	76	72	76	72	71	69	70	69	68	65	63	67	65	66	68	69	68	66.4	
EMMITSBURG 2 SE	17		75	81	87	89	91	96	99	98	99	98	97	90	89	92	93	101	97	92	91	91	82	82	82	84	88	86	82	84	95	95	91	90.2	
			46	47	53	53	60	60	66	66	66	66	66	70	66	67	76	64	76	71	71	71	71	66	66	63	59	69	66	65	65	67	66	64.6	
FREDRICK POLICE BRKS	17		77	81	89	92	92	98	101	101	100	100	100	98	94	95	96	104	104	100	99	94	94	85	86	92	89	91	86	80	94	96	94	93.6	
			53	57	59	62	65	69	73	71	73	73	74	72	71	71	81	72	79	74	72	73	70	70	70	67	67	71	66	68	66	74	71	69.5	
MILLERS 4 NE	18		70	79	86	89	89	95	97	98	94	97	93	80	88	91	91	99	95	90	88	86	82	81	79	81	85	84	81	82	91	91	89	87.8	
			49	51	55	62	63	68	71	68	67	69	70	70	66	68	76	69	72	70	70	71	69	68	68	65	64	69	65	66	69	70	68	66.6	
ROCKVILLE 1 NE	17		73	81	87	90	90	93	95	93	92	97	95	81	89	91	93	99	95	91	88	88	86	83	77	84	88	86	82	85	91	95	88	88.6	
			49	55	57	67	67	68	74	74	74	71	70	73	72	71	76	71	78	73	73	72	73	72	71	68	68	71	68	70	73	74	72	69.8	
TOWSON	18		75	81	88	89	90	96	97	96	92	100	99	93	90	92	95	100	97	93	90	89	85	87	81	86	89	86	80	84	90	99	95	90.5	
			48	54	53	64	63	69	69	72	70	69	74	71	70	70	83	70	78	72	70	69	66	75	67	65	66	73	76	66	60	73	70	68.2	
	OBS													57	82																				
UNIONVILLE	18		77	83	90	91	92	98	100	100	98	98	95	98	94	95	96	100	103	101	89	94	94	85	86	92	89	90	86	85	95	96	93	93.0	
	OBS																																		
			49	39	51	56	57	61	64	65	70	74	65	66	65	65	73	75	74	63	71	65	64	61	62	59	60	61	58	58	61	64	64	62.6	
	OBS																																		
WESTMINSTER POLICE BRK	17		75	80	90	91	96	97	98	98	97	99	99	98	91	92	94	103	102	96	94	92	89	88	85	86	91	90	89	90	94	96	96	92.8	
			45	40	56	58	61	66	70	66	65	71	68	66	66	66	66	70	78	69	67	69	67	67	65	61	64	67	61	63	68	72	66	64.7	
WOODSTOCK	18		76	83	90	91	91	97	98	97	98	101	99	89	90	93	96	102	98	94	91	90	96	86	86	87	90	87	84	84	94	96	95	91.9	
			44	49	52	59	60	62	67	66	69	68	68	70	67	70	75	66	77	73	72	72	70	70	69	66	64	68	67	68	68	71	69	66.3	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JULY 1988

STATION	OB. TIME	MAX/MIN	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				
APPALACHIAN MOUNTAIN	07																																				
CUMBERLAND 2	18	MAX	75	83	88	93	93	97	101	101	99	99	96	91	93	93	100	104	99	97	92	89	87	87	83	86	88	84	87	91	98	97	91	92.3			
		MIN	47	49	58	61	61	63	67	69	65	65	68	64	69	73	66	68	70	72	71	68	66	67	63	61	64	64	65	66	67	69	67	64.9			
FROSTBURG 2	07	MAX	66	64	74	80	84	85	88	93	93	91	92	88	77	85	86	91	96	90	90	81	81	78	79	74	78	82	77	77	83	88	90	83.3			
		MIN	43	45	50	52	59	61	61	73	69	64	64	66	59	58	69	67	66	65	65	68	65	63	64	59	60	60	61	60	62	66	65	61.6			
HAGERSTOWN	18	MAX	75	82	88	92	93	99	102	101	99	100	96	83	91	95	95	104	97	95	88	87	84	83	83	87	88	84	85	89	97	99	96	91.5			
		OBS	*****																																		
		MIN	47	56	59	63	66	67	70	71	71	67	67	70	66	69	77	72	73	71	70	71	71	67	68	66	64	68	66	67	69	72	68	67.4			
		OBS	*****																																		
HANCOCK FRUIT LAB	16	MAX	73	80	86	90	95	95	101	102	101	101	100	92	88	94	92	96	102	96	95	85	88	83	85	80	86	89	87	87	90	97	98	91.4			
		MIN	43	42	55	40	55	58	61	63	62	60	63	69	60	69	72	62	72	66	65	65	64	65	65	62	58	61	64	66	65	65	66	61.4			
		OBS	60																																		
ALLEGHENY PLATEAU	08																																				
MC HENRY 2 NW	08	MAX	67	65	75	84	87	87	90	94	94	93	90	89	72	85	82	89	94	88	93	76	77	72	80	72	77	81	78	82	83	87	88	82.9			
		MIN	40	44	49	58	59	61	63	69	69	64	65	64	58	60	65	67	70	63	65	66	63	61	62	61	58	58	58	60	61	64	65	61.0			
OAKLAND 1 SE	17	MAX	66	70	82	84	85	87	92	92	92	91	87	86	82	83	88	95	93	91	91	79	81	78	79	79	81	81	81	82	89	88	88	84.6			
		MIN	33	36	43	48	50	51	56	56	62	55	61	65	58	63	68	58	69	59	66	67	64	62	63	58	52	58	57	56	57	57	68	57.3			
SAVAGE RIVER DAM	08	MAX	75	68	77	85	90	89	92	95	98	95	86	82	73	85	78	85	89	84	85	83	85	82	84	77	80	84	80	85	86	93	94	84.6			
		MIN	40	44	46	51	56	57	52	63	65	61	63	67	61	61	64	62	62	65	63	68	66	64	63	60	58	58	59	60	61	63	65	59.6			
DELAWARE																																					
NORTHERN	01																																				
MIDDLETOWN 3 E	17	MAX	75	80	87	89	90	94	89	93	86	98	99		89	95	94	100	100	92	89	86	89	80	79	85	88	88	85	83	91	95	89	89.2			
		OBS	***																																		
		MIN	46	53	55	60	61	62	68	67	70	68	71	73	72	67	75	66	74	70	73	74	71	72	70	71	66	69	66	69	70	72	71	67.5			
		OBS	***																																		
NEWARK UNIVERSITY FARM	17	MAX	75	81	89	92	92	91	96	96	94	100	99	95	92	95	94	101	100	94	93	90	88	81	81	84	89	89	86	83	92	96	92	91.0			
		MIN	41	51	53	59	62	63	62	69	70	68	71	71	69	69	78	68	74	70	74	71	71	72	68	69	69	68	67	68	69	72	70	67.0			
		OBS	60																																		
WILMINGTON WSO AP	MID	MAX	76	82	87	87	88	95	91	94	82	100	98	81	91	93	95	97	100	91	91	88	88	84	81	86	89	87	84	83	92	95	89	89.2			
		MIN	48	56	57	67	66	67	71	70	73	71	74	73	72	71	75	71	75	72	75	73	73	72	70	71	67	69	69	70	71	74	72	69.5			
WILMINGTON PORTER RESVR	MID	MAX	73	80	86	87	89	96	97	94	84	100	100	89	93	96	97	98	100	92	90	88	86	79	85	85	86	85	83	83	91	95	91	89.6			
		MIN	52	56	60	64	65	66	69	72	72	69	74	72	75	72	78	73	73	71	74	72	73	70	72	70	69	69	69	70	71	75	72	69.6			
SOUTHERN	02																																				
DOVER	17	MAX	78	83	88	93	90	97	94	96	91	100	101	99	90	94	99	101	101	97	94	89	90	88	82	88	91	96	88	87	95	100	98	92.8			
		MIN	57	59	60	64	62	60	70	68	60	74	74	72	70	69	73	73	74	74	71	77	76	69	70	69	68	70	68	67	70	73	71	68.8			
GEORGETOWN 5 SW	08	MAX	77	77	83	89	90	89	94	90	88	86	98	99		90	92	91	98	98	94	90	88	90	79	80	85	89	87	88	84	91	96	89.0			
		MIN	44	52	54	62	58	62	69	68	68	66	69	75	72	68	74	70	67	74	74	73	77	24	71	71	68	69	67	68	68	70	73	67.5			
		OBS	24																																		
GREENWOOD 2 NE	18	MAX																																			
		MIN																																			
LEWES	17	MAX	75	77	84	86	83	91	87	84	82	96	96	95	87	91	91	93	96	93	87	88	90	90	81	83	87	86	84	83	92	95	94	88.0			
		MIN	53	57	62	63	61	64	70	68	70	68	76	71	72	71	77	71	71	75	75	75	76	73	70	71	71	71	67	68	70	76	74	69.6			
MILFORD 4 SE	17	MAX	82	81	89	87	87	93	92	92	88	97	100	97	85	91	91	96	97	94	89	88	91	85	80	86	89	87	85	84	92	96	92	89.8			
		MIN	49	56	58	63	60	63	70	70	69	66	74	71	72	70	75	69	73	73	74	74	76	73	70	72	69	69	67	68	69	75	73	68.7			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL HEATING DEGREE DAYS

MARYLAND AND
DELAWARE
JULY 1988
SEASONAL
NORM

STATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	SEASONAL NORM
MARYLAND														
SOUTHERN EASTERN SHORE 01														
ASSATEAGUE ISLAND NATL SE	0	0	8	295	399		907	700B		330B	129	40	M 280B	
CRISFIELD SOMERS COVE	0	0	3	277	378	677	1006B	742	567	304	79	21	B 4054	3902
PRINCESS ANNE	0	2	12	353	422	726		729	587B	358B	118	37	M 3344	4298
SALISBURY	0	0	5	301	383	675	985	720	530	325	99	25	4048	4016
SALISBURY FAA AP	0	0	13	377	449	733	1038	781	598	367	119	34	4509	4411
SNOW HILL 4 N	0	0	7	317	399	706	986	729	567	340	113	35	4199	4239
CENTRAL EASTERN SHORE 02														
CAMBRIDGE WTR TRMT PL	0	0	4	285	383	691	1018	731	529	324	71	21	4057	4331
DENTON 2 E	0	1	9	333	441	752	1086	795	582B	391	108	37	B 4535	4446
ROYAL OAK 2 SSW	0B	0	5	310	404		1038	756	559	334	80	28	B 4225	4192
VIENNA	0	0	5	322		674B	1031	745	519		82	21	M 3399	4140
LOWER SOUTHERN 03														
LA PLATA 1 W	0	1	14	372	450	748	1045	763	548	317	88	39	4385	4384
MECHANICSVILLE 1 E	0	4	15	412	451	752	1081	783	574	354	96	41	4563	
OWINGS FERRY LANDING	0	0	7	364	445	758	1079	790	575	343	89	32	4482	4384
PATUXENT RIVER	0	0	20	387	437B	746	1064	837	625	398B	126	31	B 4671	
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	0	0	29	424	518	755	1058	779	571	341	70	15	4560	
BALTIMORE WSO AP	0	1	15	412	511	774	1120	838	613	389	96	27	4796	
BELTSVILLE	0	0	33	444	516	802	1197	847	631	405	114	45	5034	4706
COLLEGE PARK	0	14	18	364	481	766	1128	825	600B	348	91	42	4677	4455
DALECARLIA RESVR D C	0B	0	5	371	480	791	1116	833	609B	357	101	33	B 4696	4425
GLENN DALE BELL STN	0	3B	20	409	488	803	1130	797	617	384	122	38	B 4811	4649
LAUREL 3 W	0	0	16	380	491	768					105	28B	M 1788	4489
NATIONAL ARBORETUM D C	0	0	18	403	516	791	1131	833	603	356	102	45	4798	4267
UPPER MARLBORO 3 NNW	0	1	16	453	503	799	1195	853	640	407	121	49	5037	
NORTHERN EASTERN SHORE 05														
CHESTERTOWN	0	0	13	347	453	764	1120	860B	599	386	90	29	B 4661	4600
MILLINGTON 1 SE	0	2	12	367	455B	745	1127	812	607	377	104	37	B 4645	4837
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FLD	0B		7			795B		742B	596B	351B	118B	26	M 2635	
BALTIMORE WSO CI	0	0	6	305	452	742	1063	812	555	376	75	17	4403	4083
BENSON POLICE BARRACKS	0	1	16	408	550	846	1170	839	586	342	88	23	4869	4998
BOYDS 2 NW	0	2	19	388	484	799	1100	859	593	381	106	40	4771	
CATOCTIN MOUNTAIN PARK	7	16	53	464	578	916	1197	996	708	457	155	57	5604	
CLARKSVILLE 3 NNE	1	10	34	436	516	812	1160	862	644	404	114	38	5031	
CONDWINGO DAM	0B	5	42	494	597	875	1219	958	690	455	148	32	B 5515	5206
DAMASCUS 2 SW	0	4	28	417	510	817	1128	883	618	406	126	43	4980	
EMMITSBURG 2 SE	1	10B	40	484	578	846	1219	908	677	435	136	47	B 5381	
FREDRICK POLICE BRKS	0	1	9	366	446	753	1078B	813	574	266B	78	20	B 4404	
MILLERS 4 NE									678	456	139	47	M	
ROCKVILLE 1 NE	0	0	12	412	505	801	1152B	877	630	357	89	34	B 4869	4663
TOWSON			2	395	484B	802	1145	914	651		130	28	M 4551	
UNIONVILLE	2	21	39	499	613	897	1225B	914	701	447	142	19B	B 5519	5415
WESTMINSTER POLICE BRK	0B	3	33	437	520	852	1181	927	661	430	128	35	B 5207	5250
WOODSTOCK	0	6	17	409	497	794	1126	866		388	101	30	M 4234	5027
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	1	13	38	464	557	860	1173	921	650	368	105	45	5195	5106
FROSTBURG 2	16	44	112	599	677	1012	1331	1080	854B	547	254	116	B 6642	
HAGERSTOWN	0	5	21	417	510	817	1128	883	618	406	126	43	4980	
HANCOCK FRUIT LAB	2	13	52	481	567	838	1162	886	636B	380	99	39	M 4070	5086
									670B	410B	112	55	B 5248	5573

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL HEATING DEGREE DAYS

MARYLAND AND
DELAWARE
JULY 1988
SEASONAL
NORM

STATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	SEASONAL NORM
ALLEGHENY PLATEAU 08														
MC HENRY 2 NW	19	39	117	596	692	1048	1347B	1097B	853	541	237	119	B 6705	6599
OAKLAND 1 SE	17	40	122	588	670	960	1301B	1055	795B	516	250	128	B 6442	6335
SAVAGE RIVER DAM	17	34B	94	579	665	952	1319	1021	800	505	215	96	B 6297	6335
DELAWARE														
NORTHERN 01														
MIDDLETOWN 3 E	0	2	23	398	493B	795	1145	845	644	428	123	35	B 4931	4906
NEWARK UNIVERSITY FARM	0	3	27	407	507	826	1149	872	646	453	123	39	B 5052	4986
WILMINGTON WSO AP	0	2	22	406	521	811	1159	869	637	419	121	38	B 5005	4986
WILMGTON PORTER RESVR	0	1	23	383	512B	795	1143	881	654	434	120	35	B 4981	5127
SOUTHERN 02														
DOVER	0	0	4	301	378	700	1030	759	593	365	104	17	B 4251	4356
GEORGETOWN 5 SW	0	2	15	366	467	744	1068B	814	621	412	147	49	B 4705	4571
GREENWOOD 2 NE	0	1	12	347	452	736	1059	779	589	399	110	33	B 4517	4505
LEWES	0	0	4	284	389	697	1007	764	569	398	133	22	B 4267	4457
MILFORD 4 SE	0	0	9	334	434	733	1077	768	589	400	136	36	B 4516	4457

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

MARYLAND AND
DELAWARE
JULY 1988

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				
MARYLAND																																			
UPPER SOUTHERN 04																																			
BELTSVILLE	WIND	43	41	29	32	37	23	21	36	30	20	24	27	5	27	36	20	46	39	40	39	28	57	12	36	17	17	30	18	7	22	9	868		
	EVAP	34	*	56	28	29	26	27	36	31	21	34	27	11	37	33	59	18	26	32	15	17	19	13	*	39	28	34	13	13	26	30	8.12		
	MAX	86	-	86	92	95	96	98	98	98	99	101	100	88	98	99	100	101	101	102	90	93	89	88	86	96	98	93	86	93	98	103	95.0		
	MIN	54	-	55	65	66	67	68	68	74	70	72	74	74	73	75	76	71	73	75	75	74	73	73	68	71	72	70	70	72	74	76	70.6		
UPPER MARLBORO 3 NNW	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	EVAP	25	22	23	24	27	24	24	28	23	19	28	18	5	28	22	28	28	36	23	13	17	22	7	11	24	25	31	19	10	25	28	6.87		
	MAX	80	78	86	85	76	76	80	86	80	76	88	80	84	94	100	100	100	102	98	78	76	76	76	86	90	98	76	72	72	80	80	84.2		
	MIN	56	56	56	62	68	68	70	72	72	72	74	74	74	74	74	76	76	76	68	74	74	74	74	72	72	74	72	72	70	74	74	70.8		
ALLEGHENY PLATEAU 08																																			
SAVAGE RIVER DAM	WIND	54	53	25	3	9	8	14	14	13	15	15	24	-	-	26	10	14	41	4	8	6	6	0	2	22	8	5	2	20	18	19	489B		
	EVAP	28	19	23	12	28	29	31	38	12	38	13	21	16	7	29	35	12	29	20	19	9	1	21	10	9	29	9	14	23	23	12	6.19		
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
DELAWARE																																			
NORTHERN 01																																			
NEWARK UNIVERSITY FARM	WIND	58	60	20	19	16	24	21	24	15	30	23	17	16	24	36	25	49	18	24	34	24	17	28	41	23	11	13	16	19	12	17	774		
	EVAP	36	29	23	26	26	34	26	19	13	21	18	23	8	22	46	42	58	22	20	*	41	21	17	29	28	18	28	14	16	32	8	7.64		
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
SOUTHERN 02																																			
GEORGETOWN 5 SW	WIND	72	90	80	81	62	40	74	55	77	59	86	93	36	42	74	45	76	99	58	110	39	37	40	67	47	46	89	65	36	71	28	2174		
	EVAP	34	33	45	26	26	30	36	26	16	13	38	40	8	28	43	19	35	45	38	14	20	34	22	2	26	37	22	24	17	35	25	8.57		
	MAX	84	78	86	90	90	93	89	93	94	83	96	97	80	97	97	94	100	93	101	90	90	94	81	82	93	95	93	94	91	93	100	91.5		
	MIN	54	56	58	68	64	66	71	70	73	68	70	77	75	75	76	73	71	76	75	75	75	75	73	74	73	73	70	71	72	74	79	71.0		

EVAPORATION: IS MEASURED IN HUNDRETHS OF INCHES

WIND: IS MEASURED IN MILES

MAX AND MIN: THE MAXIMUM AND MINIMUM TEMPERATURES (FAHRENHEIT) OF THE WATER IN THE EVAPORATION PAN

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
JULY 1988

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER		
							LOCAL STD TIME						
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)			
MARYLAND													
ABERDEEN PHILLIPS FLD	001506		HARFORD	39 28	76 10W	57	16	16		C	H	ROSS AVIATION INC	
ANNAPOLIS POLICE BRKS	019304		ANNE ARUNDEL	38 59	76 30W	25	17	17			H	ANNAPOLIS POLICE BRKS	
ASSATEAGUE ISLAND NATL	003350	SE	WORCESTER	38 14	75 8W	7	07	07			H	NATIONAL PARK SERVICE	
BALTIMORE WSO AP	004650	RR	ANNE ARUNDEL	39 11	76 40W	196	MID	MID		C	H	NATL WEATHER SERVICE	
BALTIMORE WSO CT	004700		BALTO CITY	39 17	76 37W	91	MID	MID		C	H	OCMI COMMANDING OFFICER	
BELTSVILLE	070004		PRN GEORGES	39 2	76 53W	120	08	08			C	U S DEPT OF AGRICULTURE	
BENSON POLICE BARRACKS	073206		HARFORD	39 30	76 23W	365	17	17			H	MARYLAND STATE POLICE	
BOYDS 2 NW	103206		MONTGOMERY	39 13	77 20W	580	18	18				HUNTER F STALEY	
BRIGHTON DAM	112506		MONTGOMERY	39 12	77 1W	330		MID				WASH SUB SANY COMM	
CAMBRIDGE WTR TRMT PL	138502		DORCHESTER	38 34	76 4W	5	16	16			H	WASTEWATER TRMT PLANT	
CATOCTIN MOUNTAIN PARK	153006		FREDERICK	39 39	77 29W	1610	17	17			C	CATOCTIN MOUNTAIN PARK	
CHESTERTOWN	175005		KENT	39 13	76 4W	40	23	23			H	THOMAS W ELIASON JR	
CLARKSVILLE 3 NNE	186206		HOWARD	39 15	76 56W	365	17	17			H	UNIVERSITY OF MARYLAND	
COLLEGE PARK	199504		PRN GEORGES	38 59	76 57W	90	09	09			C	UNIVERSITY OF MARYLAND	
CONOWINGO DAM	206006		HARFORD	39 39	76 10W	40	MID	MID			H	SUSQUEHANNA ELECTRIC CO	
CRISFIELD SOMERS COVE	221501		SOMERSET	37 59	75 52W	8	17	17			H	SOMERS COVE MARINA	
CUMBERLAND 2	228207		ALLEGANY	39 38	78 45W	730	18	07			H	TIMOTHY B THOMAS	
DALECARLIA RESVR D C	232504			38 56	77 7W	146	17	17				U S CORPS OF ENGINEERS	
DAMASCUS 2 SW	233506		MONTGOMERY	39 16	77 14W	720	19	19			H	RICHARD W SCHWERDT	
DENTON 2 E	252302		CAROLINE	38 53	75 48W	50	17	17			H	ARTHUR REINHOLD	
EDGE MONT	277007		WASHINGTON	39 40	77 33W	905		07				JOHN W HARNE	
EMMITSBURG 2 SE	290606		FREDERICK	39 41	77 19W	416	17	17			H	MRS LUCILLE K BEALE	
FREDRICK POLICE BRKS	334806		FREDERICK	39 25	77 26W	380	17	17			H	MARYLAND STATE POLICE	
FREDERICK 3 E	335506		FREDERICK	39 24	77 22W	385		07				MISS I MARY STALEY	
FROSTBURG 2	341507		ALLEGANY	39 40	78 56W	2170	07	07			H	LEE K CLOSE	
GLENN DALE BELL STN	367504		PRN GEORGES	38 58	76 48W	150	16	16			H	USDA PLT INTRODUCT STN	
HAGERSTOWN	397507		WASHINGTON	39 39	77 44W	660	18	18				HAGERSTOWN RESERVOIR	
HANCOCK FRUIT LAB	403007		WASHINGTON	39 42	78 11W	428	16	16			C	SHARPSBURG RESEARCH C	
LA PLATA 1 W	508003		CHARLES	38 32	77 0W	140	18	18			H	C RUSSELL LEVERING	
LAUREL 3 W	511104		PRN GEORGES	39 6	76 54W	400	MID	MID				WASH SUB SANY COMM	
MC HENRY 2 NW	583208		GARRETT	39 35	79 22W	2680	08	08			C	JOSEPH F JOHENNING	
MECHANICSVILLE 1 E	586503		ST MARYS	38 27	76 41W	100	19	19				SANDRA J HASTING	
MERRILL	589408		GARRETT	39 36	79 5W	1790		09				DELWOOD E MERRILL	
MILLERS 4 NE	593406		CARROLL	39 43	76 48W	860	18	18			C	ROBERT P MILLER	
MILLINGTON 1 SE	598505		KENT	39 16	75 52W	30	18	18			H	HOWARD L HARVEY	
NATIONAL ARBORETUM D C	635004			38 54	76 59W	50	08	08			H	U S NATL ARBORETUM	
OAKLAND 1 SE	662008		GARRETT	39 24	79 24W	2420	17	17			H	BEA J CROSCO	
OWINGS FERRY LANDING	677003		CALVERT	38 41	76 40W	160	17	17			H	JAMES C RASMUSSEN	
PATUXENT RIVER	691503		ST MARY'S	38 20	76 25W	38	MID	MID			C	NAVAL WEATHER SERVICE	
POTOMAC FILTER PLANT	727206		MONTGOMERY	39 2	77 15W	270		08				POTOMAC WATER FILT PLT	
PRINCESS ANNE	733001		SOMERSET	38 13	75 41W	20	17	17			H	UNIVERSITY MARYLAND EAST	
ROCKVILLE 1 NE	770506		MONTGOMERY	39 6	77 6W	440	17	17			H	WASH GAS & LIGHT CO	
ROYAL OAK 2 SSW	780602		TALBOT	38 43	76 11W	10	18	18			H	JOHN L SWAINE JR	
SALISBURY	800001		WICOMICO	38 22	75 35W	10	17	17				CITY OF SALISBURY	
SALISBURY FAA AP	800501		WICOMICO	38 20	75 31W	48	MID	MID			H	FAA	
SAVAGE RIVER DAM	806508		GARRETT	39 31	79 8W	1495	08	08			OB	C	U S CORPS OF ENGINEERS
SNOW HILL 4 N	838001		WORCESTER	38 14	75 23W	28	18	18			H	CURTIS E SHOCKLEY	
TOWSON	887706		BALTIMORE	39 23	76 34W	390	18	18				BENDIX FRIEZ	
UNIONVILLE	903006		FREDERICK	39 27	77 11W	430	18	18			C	H	CAROLINE R VON EIFF
UPPER MARLBORO 3 NNW	907004		PRN GEORGES	38 52	76 47W	98	08	08			OB	H	TOBACCO EXP FARM
WIENNA	914002		DORCHESTER	38 29	75 50W	12	18	18			H	DELMARVA POWER & LIGHT	
WESTMINSTER POLICE BRK	944006		CARROLL	39 33	76 58W	765	17	17				MARYLAND STATE POLICE	
WOODSTOCK	975006		BALTIMORE	39 20	76 52W	460	18	18			H	JOHN A HILTZ	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
JULY 1988

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER
							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
DELAWARE											
DOVER	273000	02	KENT	39 9	75 31 W	30	17	17		H	STATE DIV OF HIGHWAYS
GEORGETOWN 5 SW	359900	02	SUSSEX	38	75 27 W	45	08	08	08	C	UNIV OF DEL SUBSTATION
GREENWOOD 2 NE	533200	02	SUSSEX	50	75 35 W	45	18	18			DANIEL M SWARTZ ENTRUBER
LEWES	533200	02	SUSSEX	46	75 35 W	15	17	17			BOARD OF PUBLIC WORKS
MIDDLETOWN 3 E	588500	01	NEW CASTLE	27	75 40 W	55	17	17			DAVID S NEYHARD
MILFORD 4 SE	599100	02	SUSSEX	54	75 28 W	30	17	17			DAVID S SCHLOTT
NEWARK UNIVERSITY FARM	641000	01	NEW CASTLE	40	75 44 W	90	17	17	17	C	UNIV OF DELAWARE
WILMINGTON WSO AP	959500	01	NEW CASTLE	40	75 36 W	79	MID	MID			NATL WEATHER SERVICE
WILMINGTON PORTER RESVR	960500	01	NEW CASTLE	46	75 32 W	274	MID	MID			WATER DEPARTMENT

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

MARYLAND AND
DELAWARE
JULY 1988

DEFINITIONS

STATION NAMES: Name of the city, town or locality. Figures and letters following the station names indicate the distance in miles and direction from the post office or town community center.

DIVISIONS: Areas within a state of similar climatological characteristics. Division averages are calculated using data from stations that record both temperature and precipitation (ie: not precipitation alone).

NORMALS: The average value of the meteorological element over a time period. Effective 1 January 1983, the averaging period is 1951 to 1980. The normals for National Weather Service localities have been adjusted so as to be representative for the current observation site.

MONTHLY DEGREE DAY TOTALS: One heating (cooling) degree day is accumulated for each whole degree that the daily mean temperature is BELOW (ABOVE) 65 degrees Fahrenheit.

PRECIPITATION: Values shown in hundredths of inches are water equivalent totals, i.e. total of liquid and melted frozen precipitation. In the "MONTHLY SUMMARIZED DATA" table the total snow and sleet values shown in tenths of inches are unmelted amounts. The max. depth on ground values of snow and sleet shown in whole inches are cumulative unmelted amounts. The no. of days with .10, .50, 1.00 or more refers to water equivalents.

TEMPERATURE: Original and edited temperature values are given in the Daily Temperature Table. Edited values are produced when an original value is missing or when surrounding stations indicate a suspect original value. When a line labeled OBS is present and contains either a daily temperature (suspect) or *** (missing), the temperature appearing directly above, on the line labeled MAX or MIN, is an edited value. Summary temperature information (averages, departures, extremes, monthly degree day totals) is based on the values labeled MAX/MIN.

WIND: (As shown in "Evaporation and Wind" table) The total wind movement in miles over the evaporation pan as determined by an anemometer recorder located 6-8 inches above the pan.

SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

Thermometers located in a rooftop shelter.
// Rain Gage equipped with a windshield.
AR Observation made "after rain" has occurred.
C Station is equipped with recording rain gage (R) but values in this bulletin are from a non-recording rain gage unless indicated by an R.
G Observations appear in "Soil Temperatures" table.
H Observations appear in "Snowfall and Snow on Ground" table.
J Station also published as a Local Climatological Data publication.
MID Observation time is midnight.
MO Rain gage read once monthly, usually the last day.
OC Rain gage readings vary from a few weeks to several months.
R Amounts from recording rain gage.
SR Observation time near sunrise.
SS Observation time near sunset.
VAR Observation time varies.
WI Rain gage read weekly or irregularly.
WM Rain gage read weekly and last day of month.

SYMBOLS AND LETTERS USED IN THE DATA TABLES

(DAILY DATA ARE FOR THE 24 HOURS IMMEDIATELY PRECEDING OBSERVATION TIME.)

BLANK entries in the "Monthly Summarized Data" table indicate no record. BLANK entries in the "Daily Precipitation" and "Snowfall and Snow on Ground" tables indicate zero.

BLANK entries in the "Daily Temperature" table indicate a missing record where an edited value could not be determined. (See *** below)

- No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.

+ Precipitation or temperature extremes occurred on one or more previous dates during the month.

*** Missing original temperature which has been estimated during edit.
* Rain gage not read. Precipitation is included in the amount following the asterisks. Time distribution not known. A * preceding the monthly total indicates precipitation amount is being carried forward to next months total, and may include amounts from the previous month(s).

// Rain gage equipped with a windshield.

A Amount of precipitation is the total of observer's entries for the current month. It may include precipitation that occurred during the previous month. Refer to earlier bulletin to determine date of last reading. (HAWAII stations)

B Adjusted monthly value (estimated), (1-7 missing values for wind and evaporation).

M Insufficient or partial data. M is appended to average and/or total values computed with 1-9 daily values missing. M appears alone if 10 or more daily values are missing, (8 or more for wind and evaporation).

R Amounts from recording rain gage.

T Trace. An amount too small to measure.

V Includes total for previous month(s). (See * above)

Seasonal Tables: Monthly and seasonal snowfall and heating degree days for the 12 months ending with the June data are published in the July issue of this bulletin. Cooling degree days for the calendar year are published in the "Climatological Data Annual Summary".

The graphic displays appearing in this publication were first produced for the January 1987 data month. The types of graphs and the information they portray may vary from month to month and from state to state in order to highlight climatic features of state, regional, and seasonal interest. Some graphs present information for "clusters". A cluster is a group of up to four (4) adjacent divisions that comprise an area of similar climate.

Information concerning the history of changes in locations, exposure, etc. of substations is kept on file at the National Climatic Data Center. Historical information for regular National Weather Service Offices may be obtained from the "Local Climatological Data" annual publication. The contents of this publication may be reprinted or otherwise used freely, with proper credit to the National Climatic Data Center, Asheville, North Carolina.

SUBSCRIPTION, PRICE AND ORDERING INFORMATION AVAILABLE FROM:
NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, NC 28801-2696

USCOMM-NQAA-ASHEVILLE, N.C. JULY 1988-0585

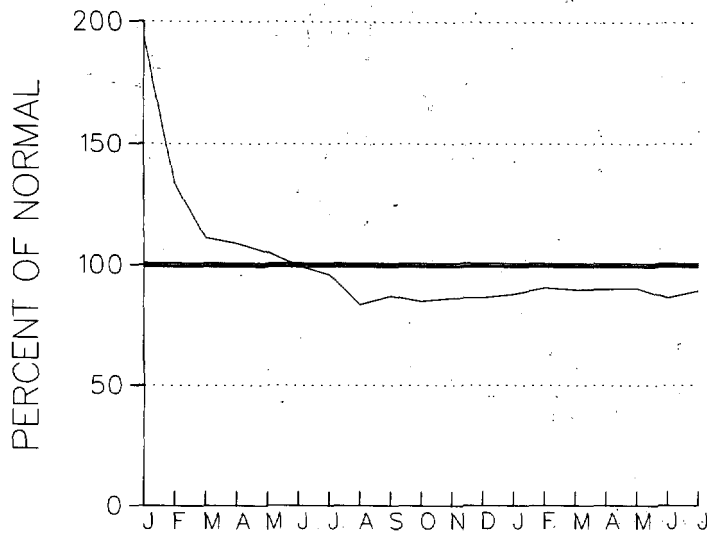
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE LAST 19 MONTHS
ENDING JULY 1988
MARYLAND

CLUSTER 1 - DIVISION(S):
SOUTHERN EASTERN SHORE 01
CENTRAL EASTERN SHORE 02
LOWER SOUTHERN 03

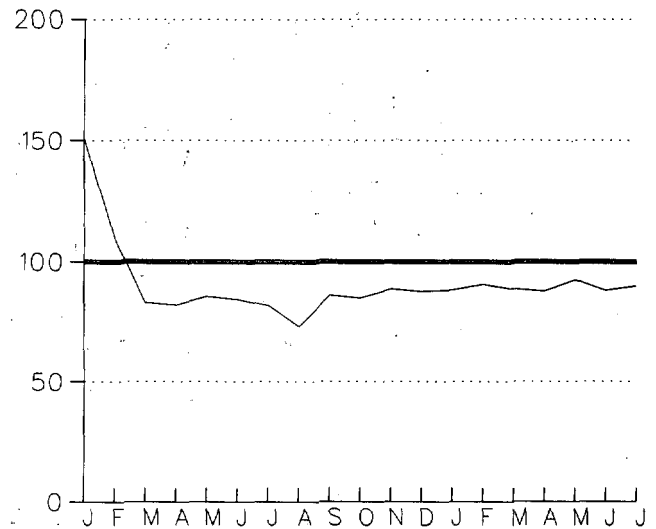
CLUSTER 2 - DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

CLUSTER 3 - DIVISION(S):
NORTHERN CENTRAL 06
APPALACHIAN MOUNTAIN 07

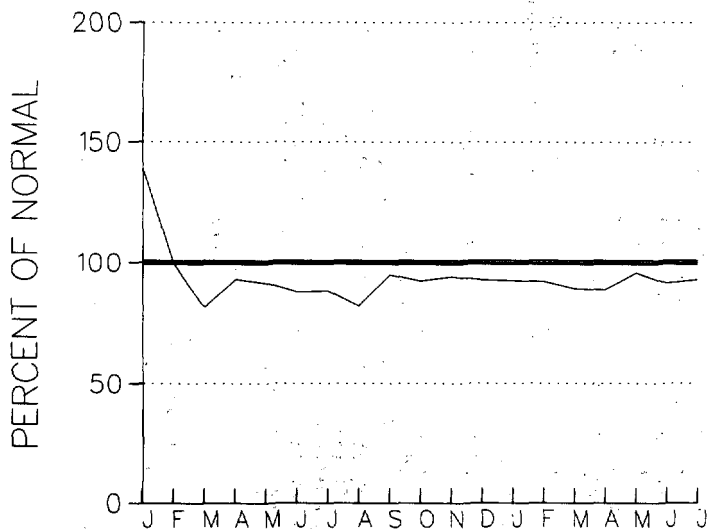
CLUSTER 4 - DIVISION(S):
ALLEGHENY PLATEAU 08



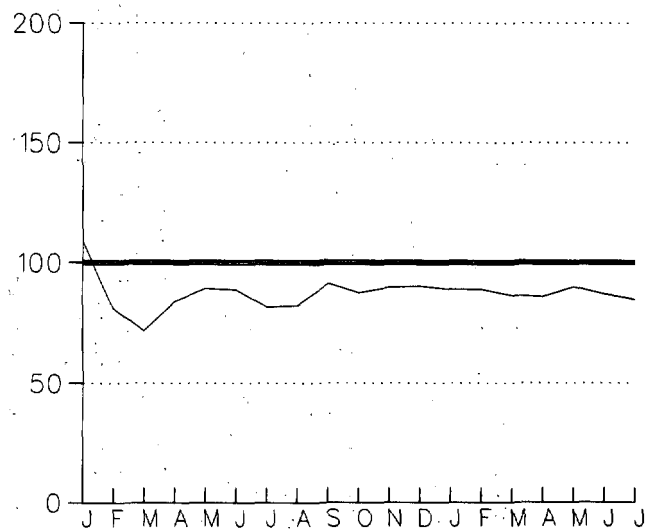
CLUSTER 1



CLUSTER 2



CLUSTER 3

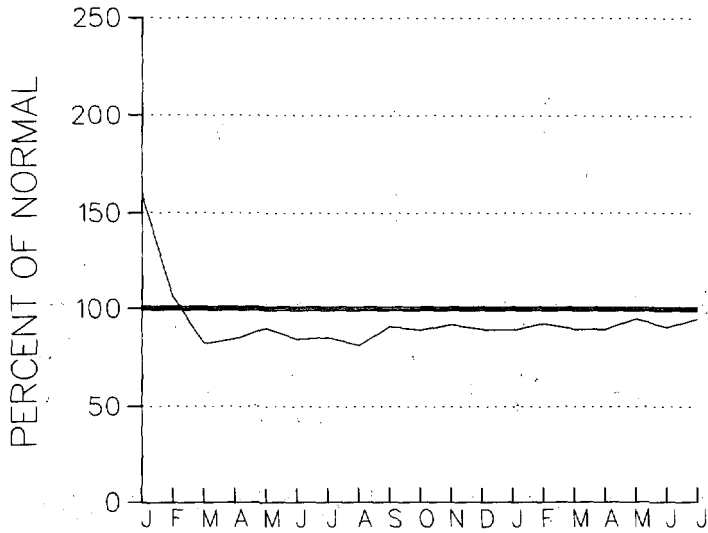


CLUSTER 4

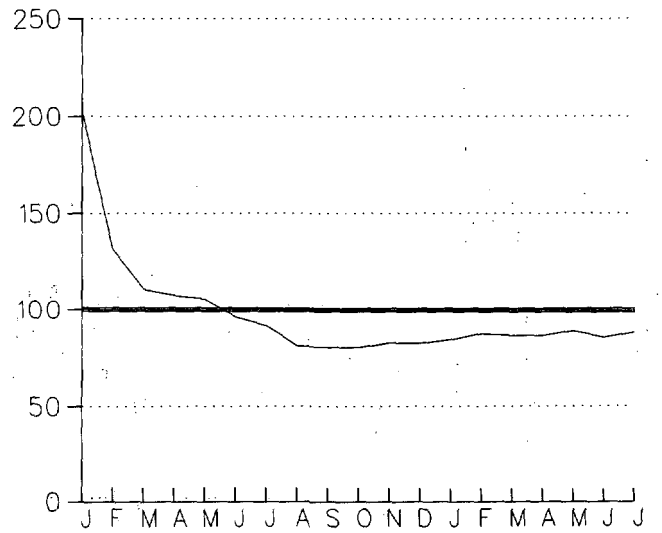
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE LAST 19 MONTHS
ENDING JULY 1988
DELAWARE

CLUSTER 1 - DIVISION(S):
NORTHERN 01

CLUSTER 2 - DIVISION(S):
SOUTHERN 02



CLUSTER 1

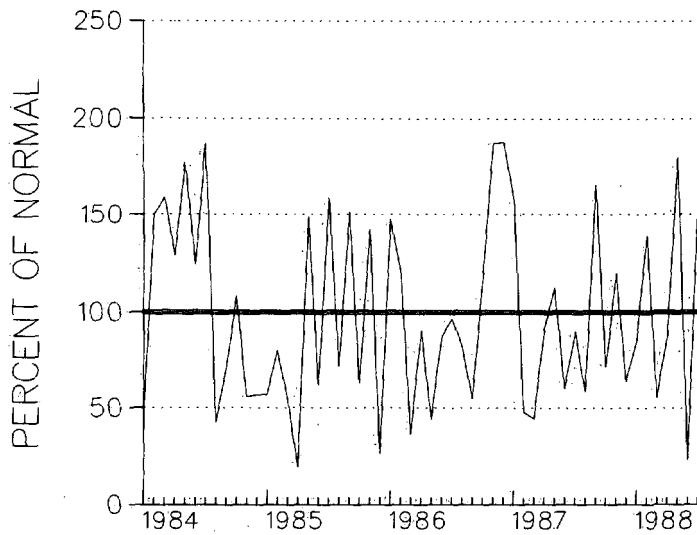


CLUSTER 2

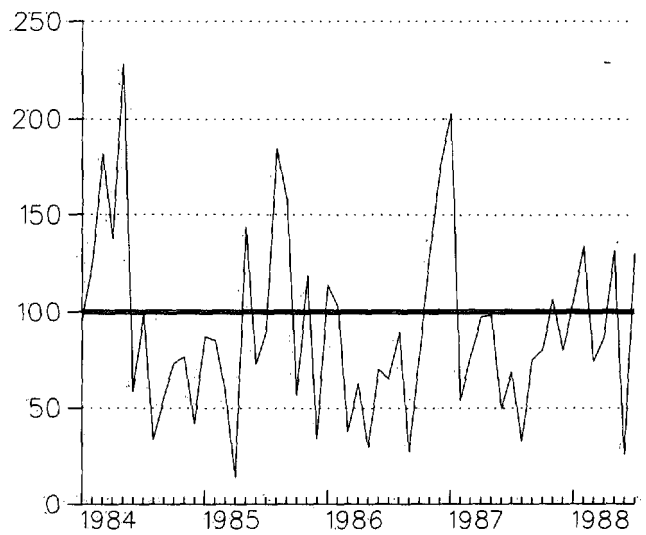
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE 55 MONTHS
ENDING JULY 1988
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



CLUSTER 1



CLUSTER 2

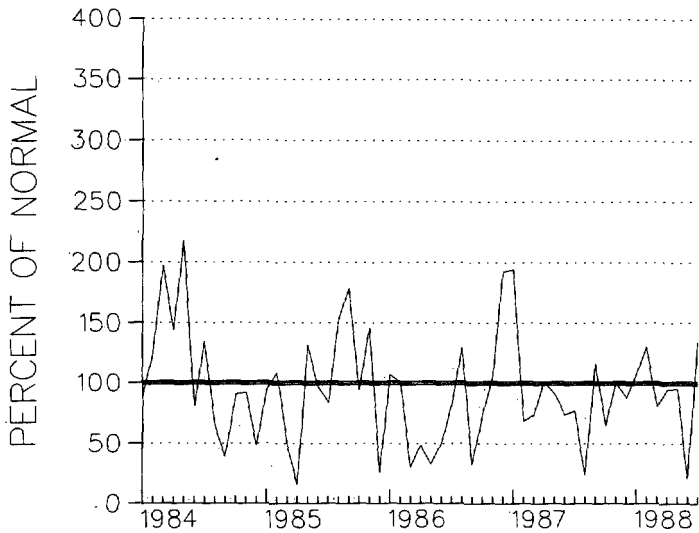
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
 FOR THE 55 MONTHS
 ENDING JULY 1988
 MARYLAND

CLUSTER 1 -DIVISION(S):
 SOUTHERN EASTERN SHORE 01
 CENTRAL EASTERN SHORE 02
 LOWER SOUTHERN 03

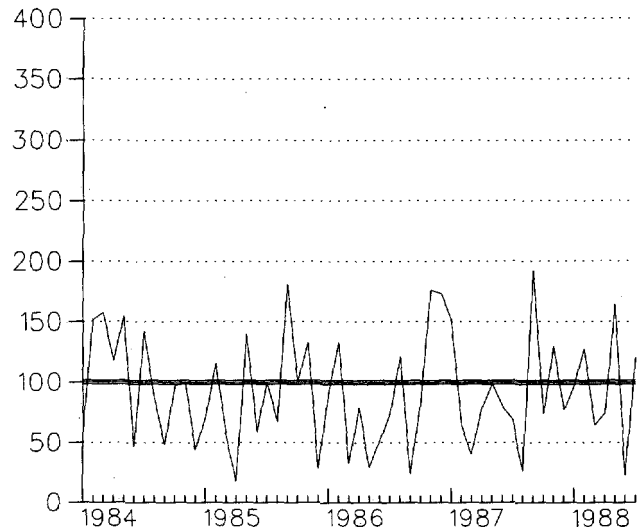
CLUSTER 2 -DIVISION(S):
 UPPER SOUTHERN 04
 NORTHERN EASTERN SHORE 05

CLUSTER 3 -DIVISION(S):
 NORTHERN CENTRAL 06
 APPALACHIAN MOUNTAIN 07

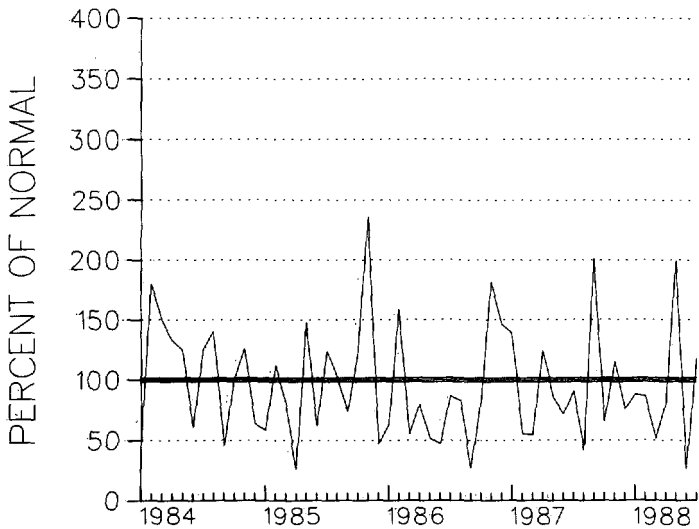
CLUSTER 4 -DIVISION(S):
 ALLEGHENY PLATEAU 08



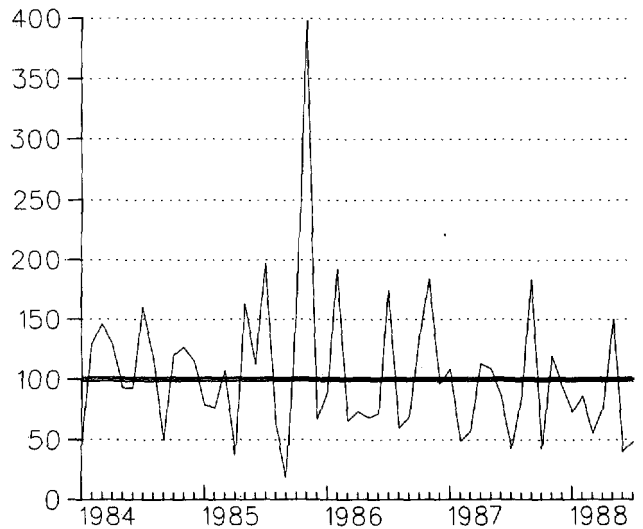
CLUSTER 1



CLUSTER 2



CLUSTER 3

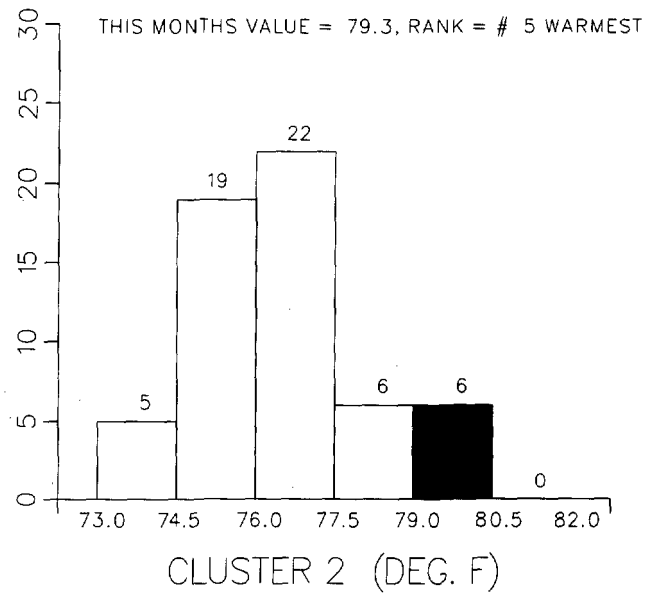
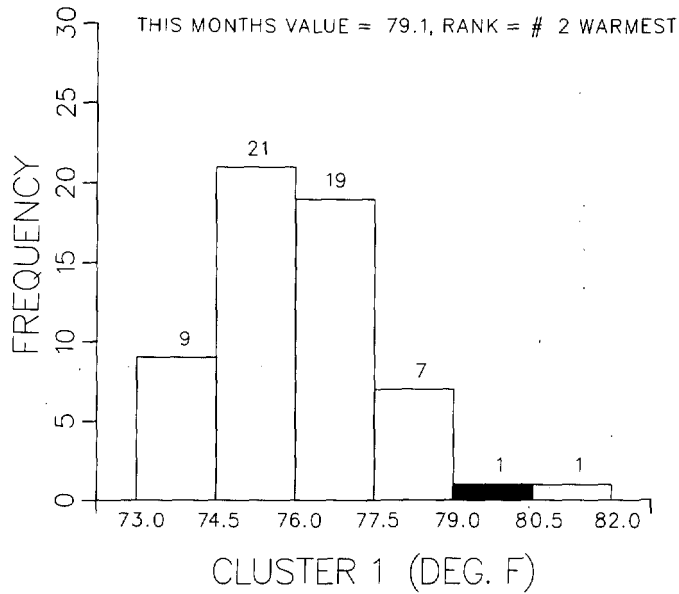


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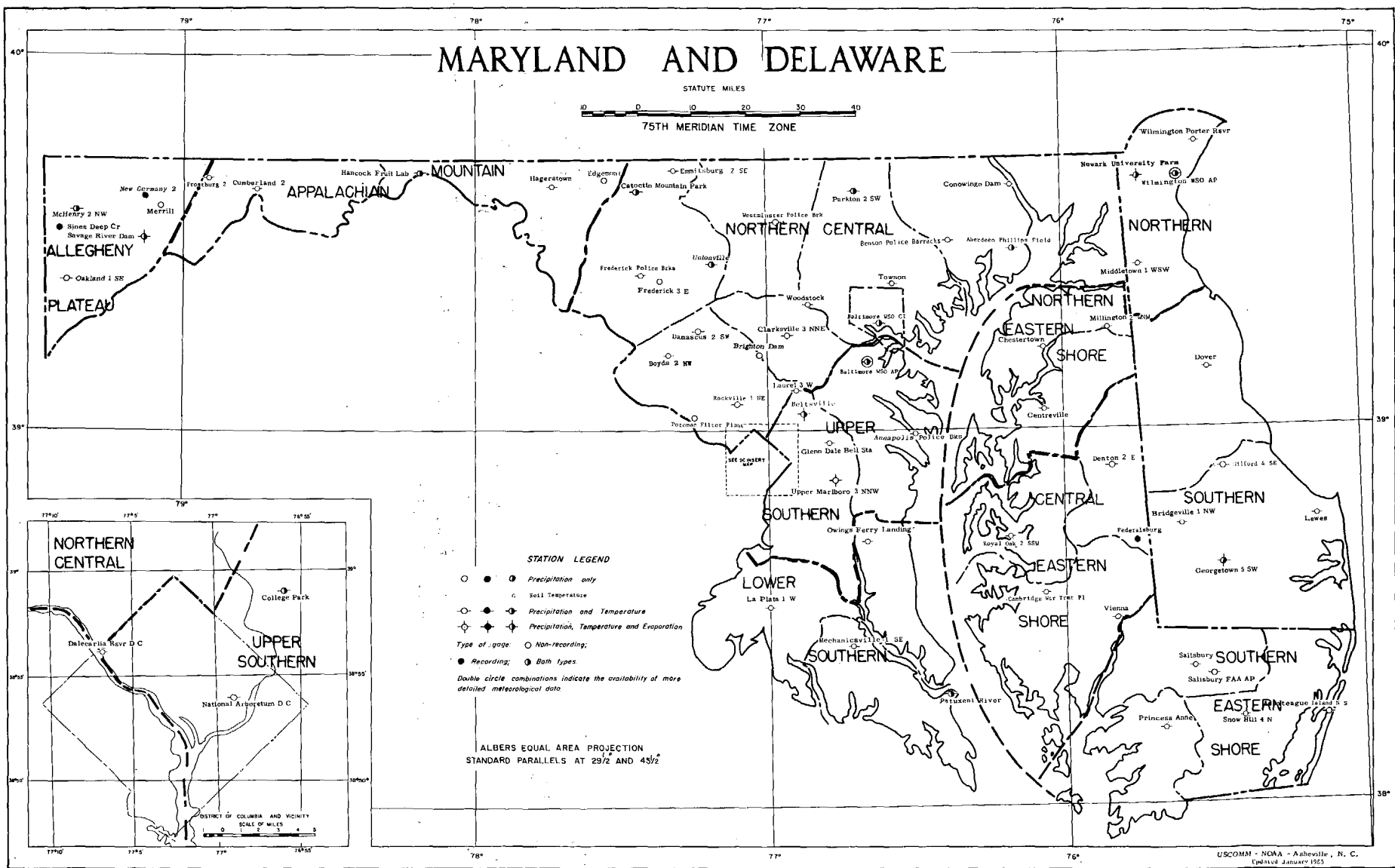
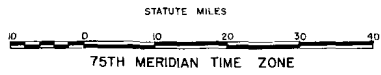
MEAN MONTHLY TEMPERATURE FREQUENCY DISTRIBUTION
 FOR PERIOD OF RECORD 1931-1988
 FOR MONTH OF JULY
 DELAWARE

CLUSTER 1 - DIVISION(S):
 NORTHERN 01

CLUSTER 2 - DIVISION(S):
 SOUTHERN 02

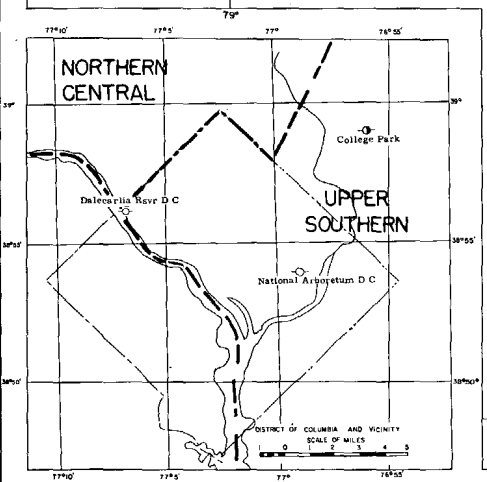


MARYLAND AND DELAWARE



- STATION LEGEND**
- ● ○ Precipitation only
 - ● Soil Temperature
 - ● Precipitation and Temperature
 - ● Precipitation, Temperature and Evaporation
 - Type of gauge: ○ Non-recording; ● Recording; ○ Both types
 - Double circle combinations indicate the availability of more detailed meteorological data

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2 AND 43 1/2



CD
VALIDATED BY:

Ted Burlew
Betty Edstrom
Bruce Emory
Joyce Morgan
Betty Shuford

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