



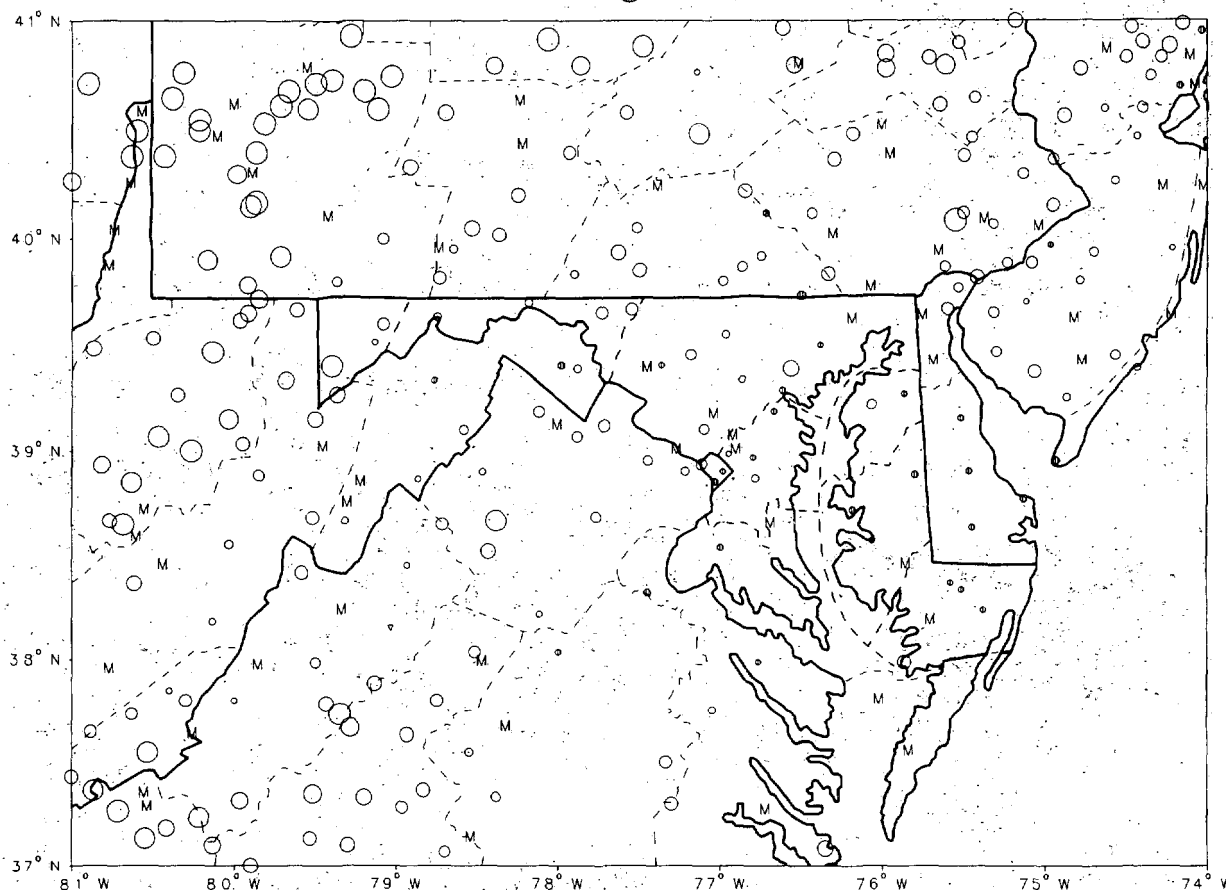
# CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

JANUARY 1988

VOLUME 92 NUMBER 1

### 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. Haden*

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

# noaa

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  
JANUARY 1988

MARYLAND  
 HIGHEST TEMPERATURE 67  
 LOWEST TEMPERATURE -16  
 GREATEST TOTAL PRECIPITATION 4.14  
 LEAST TOTAL PRECIPITATION 1.92  
 GREATEST 1 DAY PRECIPITATION 1.82  
 GREATEST TOTAL SNOWFALL 23.0  
 GREATEST DEPTH OF SNOW OR ICE 10

JANUARY 31  
 JANUARY 11  
  
 JANUARY 20  
 JANUARY 8

LA PLATA 1 W  
 OAKLAND 1 SE  
 ASSATEAGUE ISLAND NATL SE  
 BOYDS 2 NW  
 MECHANICSVILLE 1 E  
 OAKLAND 1 SE  
 GLENN DALE BELL STN

DELAWARE  
 HIGHEST TEMPERATURE 65  
 LOWEST TEMPERATURE -2  
 GREATEST TOTAL PRECIPITATION 4.02  
 LEAST TOTAL PRECIPITATION 2.46  
 GREATEST 1 DAY PRECIPITATION 1.80  
 GREATEST TOTAL SNOWFALL 10.8  
 GREATEST DEPTH OF SNOW OR ICE 9

JANUARY 31  
 JANUARY 12  
  
 JANUARY 21  
 JANUARY 8

2 STATIONS  
 GEORGETOWN 5 SW  
 LEWES  
 WILMINGTON WSO AP R  
 GEORGETOWN 5 SW  
 WILMINGTON WSO AP R  
 DOVER

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND  
DELAWARE  
JANUARY 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								
									90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW				TOTAL	MAX. DEPTH ON GROUND	1.00 OR MORE	50 OR MORE	1.00 OR MORE				
MARYLAND																								
SOUTHERN EASTERN SHORE 01																								
ASSATEAGUE ISLAND NATL SE	42.8	28.5	35.7		58 31	16 15+	907	0	0	2	2	0	0	4.14		1.25	8	.0	0	6	3	3		
CRISFIELD SOMERS COVE	38.6	26.1	32.4	-4.4	59 31	12 15+	1006	0	0	9	2	3	0	2.45	-78	1.13	20	.0	0	4	2	1		
PRINCESS ANNE																								
SALISBURY	42.3	23.7	33.0	-3.7	65 31	6 10	985	0	0	5	2	0	0	3.58	.06	1.52	20	4.5	5	8	7	2	1	
SALISBURY FAA AP	40.5	22.1	31.3	-3.8	65 31	4 12	1038	0	0	8	2	4	0	3.54	.16	1.53	20	4.4	4	8	6	3	1	
SNOW HILL 4 N	41.9	22.9	32.9	-3.1	65 31	6 12	986	0	0	6	3	4	0	3.74	.11	1.49	20	4.5	11	1+	6	3	1	
--DIVISIONAL DATA-->																								
CENTRAL EASTERN SHORE 02																								
CAMBRIDGE WTR TRMT PL	40.6	23.3	32.0	-2.7	65 31	5 16	1018	0	0	7	2	4	0	3.67	.18	1.71	20	6.0	6	8	6	2	1	
DENTON 2 E	38.8	20.5	29.7	-4.4	64 31	3 11	1086	0	0	9	2	4	3	3.91	.59	1.50	20	8.0	8	9	5	3	2	
ROYAL OAK 2 SSW	39.1	23.4	31.3	-3.7	63 31	5 15	1038	0	0	8	2	4	0	3.95	.51	1.67	20	8.0	6	9+	6	3	1	
VIENNA	41.3	21.9	31.6	-4.3	65 31	3 12	1031	0	0	7	2	4	0	2.79		1.34	20	5.0	M	6	1	1		
--DIVISIONAL DATA-->																								
LOWER SOUTHERN 03																								
LA PLATA 1 W	40.3	21.6	31.0	-3.6	67 31	3 11	1045	0	0	9	2	5	0	3.48	.34	1.51	20	11.6	8	8	6	3	1	
MECHANICSVILLE 1 E	39.4	20.3	29.9	-4.4	66 31	1 11	1081	0	0	10	2	5	1	4.05		1.82	20	10.0	9	8	6	3	1	
OWINGS FERRY LANDING	39.9	20.5	30.0	-4.5	63 31	1 11	1079	0	0	8	2	5	0	3.32		1.53	20	8.7	6	6	5	3	1	
PATUXENT RIVER	38.3	22.4	30.4	-4.5	64 31	9 12	1064	0	0	8	2	7	0	3.00		1.40	20	6.5	6	9+	6	2	1	
--DIVISIONAL DATA-->																								
UPPER SOUTHERN 04																								
ANNAPOLIS POLICE BRKS	39.7	21.5	30.6		61 31	4 16+	1058	0	0	7	2	6	0	3.16		1.27	20	10.5	6	8	6	2	1	
BALTIMORE WSO AP	37.9	19.4	28.7	-4.0	62 31	3 11	1120	0	0	11	2	5	0	3.24	.24	1.84	25	13.7	7	9	6	3	0	
BELTSVILLE	37.2	15.2	26.2	-5.1	59 31	3 11	1197	0	0	11	3	9	2	2.60		1.16	20	11.2	7	8	4	2	1	
COLLEGE PARK	39.2	18.9	28.4	-5.6	62 31	2 11	1128	0	0	11	3	9	0	3.00		1.17	20	11.5	7	8	6	2	1	
DALECARLIA RESVR D C	40.9	16.7	28.8	-5.1	65 31	0 12	1116	0	0	7	3	1	1	2.57	-.50	1.18	20	M	5	8	6	1	1	
GLENN DALE BELL STN	40.0	16.6	28.3	-4.9	58 31	5 11	1130	0	0	7	2	7	4	3.17	.11	1.27	20	16.5	M	10	8	6	2	1
LAUREL 3 W																								
NATIONAL ARBORETUM D C	40.0	16.4	28.2	-6.6	56 31	2 12+	1131	0	0	6	2	9	0	3.23	-.06	1.36	20	M	9.5	7	11	4	2	1
UPPER MARLBORO 3 NNW	37.5	15.0	26.3	-5.0	56 2	4 11	1195	0	0	11	2	9	2	3.07	-.21	1.33	20	11.0	M	8	11+	5	2	1
--DIVISIONAL DATA-->																								
NORTHERN EASTERN SHORE 05																								
CHESTERTOWN	37.7	19.6	28.7	-4.4	63 31	1 11	1120	0	0	10	2	7	1	2.84	-.44	1.16	20	7.6	M	10+	6	2		
MILLINGTON 1 SE	38.6	18.0	28.3	-3.9	62 31	4 11	1127	0	0	10	2	7	2	3.30	-.14	1.15	20	M	M	6	3	1		
--DIVISIONAL DATA-->																								
NORTHERN CENTRAL 06																								
ABERDEEN PHILLIPS FLD	37.5	23.4	30.5	-5.0	60 31	0 11		0	0	8	1	6	1	2.77		.92	20	M	12.0	6	8	3	1	0
BALTIMORE WSO CI	38.9	15.0	27.0	-4.2	60 31	1 15	1063	0	0	12	2	5	0	3.38	.31	.91	25	M	M	8	8	3	0	
BENSON POLICE BARRACKS	37.8	20.8	29.3	-4.2	60 31	2 15	1170	0	0	8	3	1	1	3.46	.03	1.11	20	14.5	7	8	6	4	1	
BOYDS 2 NW	37.8	20.8	29.3	-4.2	60 31	6 6	1100	0	0	10	3	7	1	1.92		1.00	20	M	11.0	6	27+	4	1	1
CATOCTIN MOUNTAIN PARK	34.6	17.9	26.3	-5.4	55 31	1 6	1197	0	0	15	3	9	0	2.65		1.31	20	14.0	9	26	6	5	1	
CLARKSVILLE 3 NNE	39.1	15.6	27.4	-5.1	65 31	9 11	1160	0	0	10	3	7	3	2.74		1.15	20	12.2	M	6	8	5	1	
CONOWINGO DAM	37.0	13.8	25.4	-4.8	54 31	5 11	1219	0	0	9	3	7	3	3.28		.96	20	8.8	M	8	7	2	0	
DAMASCUS 2 SW	36.6	20.0	28.3	-4.8	60 31	6 7+	1128	0	0	13	2	9	0	2.93		1.39	20	12.7	M	6	26+	4	2	1
EMMITSBURG 2 SE	35.5	15.3	25.4	-5.4	50 31	8 11	1219	0	0	13	2	9	4	2.86		1.78	20	10.0	M	5	26+	5	1	1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND  
DELAWARE  
JANUARY 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														
									90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW				TOTAL	DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE									
FREDRICK POLICE BRKS ROCKVILLE 1 NE TOWSON UNIONVILLE WESTMINSTER POLICE BRK WOODSTOCK	38.6 38.1 37.5 37.4 36.2 38.5	21.4 17.6 17.4 13.2 17.1 18.3	30.0 27.9 28.0 25.3 26.7 28.4	5.4 -5.4 -4.4 -4.0 -3.0 -4.0	5831 5618 5631 5631 5131 6031	86 111 416 -1011 -315 -211	1078 1152 1145 1225 1181 1126	0 0 0 0 0 0	0 0 0 0 0 0	0 1 1 1 1 0	0 2 2 2 2 0	0 5 3 3 0 1	2.10 2.56 2.27 2.30 2.92 2.01	-1.39 -1.04 -1.46 -1.00 -1.39 -1.38	1.33 1.82 1.40 1.33 1.86 1.24	2.20 2.20 2.20 2.20 2.20 2.20	9.0 7.2 M M 19.5 19.5	5.8 5.8 M M 8 6	4.7 7.9 M M 28 26	1.2 2.2 1.0 1.0 2.2 2.2	0 0 0 0 0 0									
--DIVISIONAL DATA-->											2.75	-1.38	11.3																	
APPALACHIAN MOUNTAIN 07																														
CUMBERLAND 2 FROSTBURG 2 HAGERSTOWN HANCOCK FRUIT LAB	37.6 30.5 36.1 38.0	16.2 13.3 18.6 16.6	26.9 21.9 27.4 27.3	-4.0 -3.9 -3.2 -4.2	6531 5631 5831 6231	211 37 015 -611	1173 1331 1162 1162	0 0 0 0	0 0 0 0	1 1 1 1	0 4 1 1	0 0 0 1	2.35 2.81 2.22 2.39	-1.18 -1.58 -1.22 -1.31	1.63 1.48 1.39 1.57	2.0 2.0 2.0 2.0	9.0 21.7 7.0 9.0	5.26 7.29 4.27 5.8	4.1 4.1 4.1 5.1	1 1 1 1										
--DIVISIONAL DATA-->											2.44	-1.31	13.2																	
ALLEGHENY PLATEAU 08																														
MC HENRY 2 NW OAKLAND 1 SE SAVAGE RIVER DAM	30.2 33.9 32.3	13.1 11.9 12.0	21.7 22.9 22.2	-3.3 -4.3 -3.2	5621 5831 5631	-67 1611 -312	1347 1301 1319	0 0 0	0 0 0	1 1 1	8 9 4	6 8 4	3.28 1.98 2.55	-1.81 -1.05 -1.93	1.34 1.82 1.67	2.0 2.0 2.0	18.5 23.0 10.5	9.29 9.28 5.26	6.1 6.1 5.1	1 1 1										
--DIVISIONAL DATA-->											2.60	-1.93	17.3																	
DELAWARE																														
NORTHERN 01																														
MIDDLETOWN 3 E NEWARK UNIVERSITY FARM WILMINGTON WSO AP WILMINGTON PORTER RESVR	36.7 37.8 35.9 35.3	18.9 17.6 18.8 20.5	27.8 27.7 27.4 27.9	-4.0 -4.0 -3.8 -3.9	6231 6031 6031 5831	211 011 311 715	1145 1149 1159 1143	0 0 0 0	0 0 0 0	1 1 1 3	2 2 2 5	0 1 0 0	2.45 1.50 2.46 2.90	-1.55 -1.39 -1.45	1.96 2.25 1.01	2.0 2.0 2.0 2.5	M 7.0 10.8 6.5	M 5.8 6.9 M	3.3 4.1 5.2 5.2	3 1 2 2	0 0 0 1									
--DIVISIONAL DATA-->											2.68	-1.45	8.1																	
SOUTHERN 02																														
DOVER GEORGETOWN 5 SW GREENWOOD 2 NE LEWES MILFORD 4 SE	40.3 39.0 39.6 40.0 38.9	22.9 21.0 21.6 24.7 21.1	31.6 30.0 30.6 32.4 30.0	-2.8 -4.2 -4.3 -2.2 -4.3	6531 5631 6431 6531 6431	111 -212 011 916 012	1030 1068 1059 1007 1077	0 0 0 0 0	0 0 0 0 0	0 6 10 7 9	2 2 1 0 2	0 2 1 0 2	3.58 3.74 2.95 4.02 3.73	.34 .39 .55 .34 .17	1.08 1.80 1.73 1.70 1.62	2.0 2.1 2.0 2.0 2.0	10.0 5.7 7.0 4.5 7.0	9.8 4.12 6.9 2.8 7.8	6.3 5.3 4.1 7.3 6.6	3 1 1 1 2	1 1 1 1 1									
--DIVISIONAL DATA-->											3.60	.17	7.6																	

SEE REFERENCE NOTES FOLLOWING STATION INDEX.

# DAILY PRECIPITATION (INCHES)

MARYLAND AND  
DELAWARE  
JANUARY 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	4.14	.05	.03		1.00			1.25					.05					.29	.02	1.05					.17	.23								
CRISFIELD SOMERS COVE	2.45				.69								.33					.30		1.13														
PRINCESS ANNE M	3.58	.04	T	.15	.45				.55				.06					.29		1.52	.01					.35	.16							
SALISBURY	3.54	.03		.53	.02			.11	.30				.08					.03	.26	.05	1.53	T				.60	T							
SNOW HILL 4 N																																		
CENTRAL EASTERN SHORE 02	3.74	.02	.01	T	.80			.71	.01				.06					.25		1.49	T					.12	.27							
CAMBRIDGE HTR TRMT PL	3.67	T		T	.45			.68	.02				.03					.30		1.71						.25	.23							
DENTON 2 E	3.91	.04			.15			1.40					.03					.23	T	1.50						.50	.03							
ROYAL OAK 2 SSW	3.95	.01		T	.42			.73					.02					.30		1.67						.56	.24						.03	
VIENNA	M 2.79				.35												.49	.29		1.34						.17	.15							
LOWER SOUTHERN 03																																		
LA PLATA 1 W	3.48	T		.01	.39	T		.63					T					.32		1.51			T	T		.52	.10							
MECHANICSVILLE 1 E	4.05	T		T	.57			.73					T					.36	T	1.82			T	T		.35	.22							
OWINGS FERRY LANDING	M 3.32			T	.52			.63					T					.34		1.53						.30								
PATUXENT RIVER	3.00		.01	.06	.01			.08	.24				.02					.15	.20	.22	1.40			T	T		.61	T						
UPPER SOUTHERN 04																																		
ANNAPOLIS POLICE BRKS	3.16	T		T	.30			.65										.43	T	1.27	.02					.32	.17							
BALTIMORE WSO AP	3.24	T		.24	.09			.09	.62				.01				.06	.25	.20	.82	T		T			.84	.02							
BELTSVILLE	M 2.60				.36			.36					T					.28	.01	1.16	.04		T			.01	.72							
COLLEGE PARK	3.00	T			.33			.45					T					.32	T	1.17	.01					.10	.62							
DALECARLIA RESVR D C	2.57	.02			.29			.40										.23		1.18	.02					.27	.16							
GLENN DALE BELL STN	3.17				.43			.40					.02					.35		1.27						.20	.50							
LAUREL 3 W																																		
NATIONAL ARBORETUM D C	M 3.23				.42			*	*	*	.41							.30		1.36	.01						.73							
UPPER MARLBORO 3 NNN	3.07				.37			.37	.07									.32		1.33							.61							
NORTHERN EASTERN SHORE 05																																		
CHESTERTOWN	2.84	T		.20	.10			.07	.31				T					.02	.42	.03	1.16	T		T		.53								
MILLINGTON 1 SE	3.30	.04			.29			.58					.04						.37		1.15					.53	.30							
NORTHERN CENTRAL 06																																		
ABERDEEN PHILLIPS FLD	2.77	*	*	*	.24			.47					.03						.34	.92	T			*	*	.35	.42	T						
BALTIMORE WSO CI	3.38			.23	.12		.10	.63					.01					.24	.22	.84						.91	.01							
BENSON POLICE BARRACKS	3.46	.02			.25			.51	T				.04					.36		1.11				.02		.50	.65							
BOYDS 2 NW	1.92				.29			.29										.27		1.00						.36								
BRIGHTON DAM	M																																	
CATOCTIN MOUNTAIN PARK	2.65				.36			.36										.26		1.31	T					.46	.26							
CLARKSVILLE 3 NNE	2.74				.37			.37					T					.35		1.15			T			.50	.22							
CONOWINGO DAM	M 3.28	T		T	.44			.44					.01				.04	.30	.10	.96	.01					.28	.94							
DAHASCUS 2 SW	2.93				.07			.36										.34	T	1.39	.02			T		.70	.04							
EMMITSBURG 2 SE	2.86	.03			.25			.25										.10		1.78						.30	.40							
FREDRICK POLICE BRKS																																		
FREDERICK 3 E	M 2.10				.26			.26										.30		1.32	.02					.20								
POTOMAC FILTER PLANT	3.00	.21			T			.38	T				T					.35		1.39	.06					.08	.53							
ROCKVILLE 1 NE	M 2.56			.08	.10			.16	.17				T					.15	.15	.40	.82	.02		T		.57								
TOWSON	2.27				.40			.40			.20		.05					.02	.30		1.5	.20		.10		.35	.22	.05				.11	.02	
UNIONVILLE																																		
WESTMINSTER POLICE BRK	2.30				.08			.20										.27		1.36	.02					.37								
WOODSTOCK	2.92				.05			.36										.10		1.26						.28	.87							
WOODSTOCK	3.01	.03			.14			.45										.32	T	1.21						.56	.30							

# DAILY PRECIPITATION (INCHES)

MARYLAND AND  
DELAWARE  
JANUARY 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	2.35	.02			.03				.20	T				T	T	T				.17		1.63			T							.30	
EDGEMONT	2.44	T						.26	.03										.27		1.27	.02									.47	.59	
FROSTBURG 2	2.81	.09	T		.03	.03	T	T	.21	.05	T	T							.23	.02	1.48	.03	.01	.02	T	T					.09	T	T
HAGERSTOWN	2.22								.19										.20		1.39										.42	.02	
HANCOCK FRUIT LAB	2.39	.03							.25										.17		1.57	T								.18	.19		
ALLEGHENY PLATEAU 08																																	
MC HENRY 2 NW	3.28	.23			.06	.07			.21	.06				.03	.08				.24	T	1.34	.02	.04	.08	T	.20	.48	.08	.04	.02			
MERRILL	2.34	.12							.16	.01					.02				.19		1.40	.02	.03		T	.01	.36			.02	.02		
OAKLAND 1 SE	1.98	.12			.05	.03	T	T	.17	.05	T			.05	.04				.22	T	.82	T	T	.05		.21	.12	T		.05			
SAVAGE RIVER DAM	2.55	.12			T	T	T	T	.19	T	T			T	T				.20	T	1.67	.02	T	.02		T	.33			T	T		
DELAWARE NORTHERN 01																																	
MIDDLETOHN 3 E	M 2.45																			.72		.96	.05								.72		
NEHARK UNIVERSITY FARM	M 1.50				.18									.03					.36		.82	.01					.10						
WILMINGTON WSO AP	R 2.46	T			.13	.07			.31					.01				T	.31	.04	.71	T		T		.82					.04		
WILMINGTON PORTER RESVR	2.90	T			.11	.06			.33					.05				T	.40	T	.94					1.01							
SOUTHERN 02																																	
DOVER	3.58	.07			.55				.80					.03							.40	1.08	.05				.39	.21					
GEORGETOWN 5 SW	3.74	.05			.55				.50						.06					.32		1.08	1.80				.39	.46					
GREENHOOD 2 NE	2.95	.03			.06				.49	.02				.02					.19	.01	1.73	.01		T		.30	.09						
LEHES	4.02	.04			.55				.72	.10				.06					.26	.72	1.70	T		T		.30	.29						
MILFORD 4 SE	3.73				.48				.91					T					.20		1.62					.37	.15						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
JANUARY 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	56	38	38	48	34	38	26	44	36	34	34	44	44	47	32	40	48	56	44	53	54	44	46	48	44	42	38	38	38	42	58	42.8		
		OBS																																		
		MIN	44	26	26	34	20	26	16	24	26	22	24	22	30	18	16	18	30	36	34	40	42	36	33	32	38	25	22	23	25	36	40	28.5		
CRISFIELD SOMERS COVE	17	MAX	48		34	38	38	25	24	29	29	28	31	39	37	37	27	34	41	46	45	52	46	44	44	47	46	46	30	32	36	47	59	38.6		
		OBS	***		48																															
		MIN	39	33	23	30	23	15	15	18	23	18	18	16	29	18	12	13	26	37	31	36	39	40	32	29	37	24	23	20	20	32	41	26.1		
		OBS	***																																	
PRINCESS ANNE																																				
SALISBURY																																				
	17	MAX	53	50	36	41	35	22	25	33	30	32	36	44	41	40	30	44	51	50	48	59	55	50	44	53	47	39	33	34	39	53	65	42.3		
		MIN	42	29	20	30	21	12	11	18	10	6	11	8	29	15	9	10	24	36	30	37	45	36	32	26	37	23	18	18	17	28	48	23.7		
SALISBURY FAA AP																																				
	MID	MAX	54	41	35	41	31	20	24	36	28	30	33	44	41	27	28	42	51	51	47	59	56	42	44	52	44	36	31	33	38	53	65	40.5		
		MIN	41	19	19	31	17	12	9	20	14	10	6	4	27	10	10	7	26	31	29	38	42	34	25	23	35	21	17	15	14	30	48	22.1		
SNOW HILL 4 N																																				
	18	MAX	53	51	36	42	38	23	24	38	30	30	32	44	40	37	30	42	48	51	48	57	55	48	45	49	44	41	33	35	38	53	65	41.9		
		MIN	41	32	19	31	22	11	7	19	21	14	12	6	28	16	10	9	23	39	31	37	42	36	32	25	38	24	16	14	13	28	44	23.9		
CENTRAL EASTERN SHORE																																				
CAMBRIDGE WTR TRMT. PL																																				
	16	MAX	57	54	36	40	38	21	23	26	29	30	34	40	43	40	25	40	45	46	45	48	50	50	44	50	49	35	32	35	37	51	65	40.6		
		MIN	40	30	19	27	19	13	15	17	21	14	8	6	28	16	10	5	25	35	29	34	41	34	31	26	34	23	20	17	18	29	38	23.3		
DENTON 2 E																																				
	17	MAX	54	47	30	37	33	20	21	26	30	30	33	38	42	34	27	39	48	45	43	48	50	47	43	50	45	33	30	32	35	50	64	38.8		
		MIN	41	27	16	26	18	9	9	17	14	6	-3	0	25	11	0	2	23	35	26	35	40	34	29	23	33	20	18	16	14	29	43	20.5		
ROYAL OAK 2 SSW																																				
	18	MAX	55	47	31	39	35	21	23	27	31	30	38	38	44	36	26	39	44	43	45	47	46	42	49	43	34	32	34	36	50	63	39.1			
		MIN	43	30	19	26	20	13	14	17	19	13	6	8	29	17	5	8	27	36	27	35	39	34	32	26	34	23	20	17	18	31	40	23.4		
VIENNA																																				
	18	MAX	55	54	34	40	36	24	25	29	29	29	36	41	41	34	28	41	48	49	46	50	54	50	44	58	49	35	32	36	37	50	65	41.3		
		OBS	***																																	
		MIN	40	29	18	28	18	9	9	17	17	10	4	3	21	15	6	5	23	36	28	35	38	34	31	36	27	23	18	16	15	30	40	21.9		
		OBS	***																																	
LOWER SOUTHERN																																				
LA PLATA 1 W																																				
	18	MAX	55	47	32	40	35	22	23	28	31	31	35	37	46	31	27	41	50	50	47	43	52	45	44	53	46	33	31	35	36	57	67	40.3		
		MIN	45	28	18	24	18	9	9	17	14	7	3	7	29	16	4	7	29	35	29	32	39	34	31	24	33	21	10	12	15	27	45	21.6		
MECHANICSVILLE 1 E																																				
	19	MAX	56	46	32	37	30	19	21	27	29	30	35	38	45	28	27	41	51	50	44	43	52	42	44	52	45	34	31	35	34	58	66	39.4		
		MIN	45	26	16	27	18	8	6	18	11	5	-1	2	28	13	2	3	24	34	28	34	39	33	30	22	32	21	10	11	13	25	46	20.3		
OWINGS FERRY LANDING																																				
	17	MAX	56	47	31	39	35	19	21	26	30	30	34	39	46	33	25	40	48	49	44	42	52	47	43	52	48	33	30	34	34	53	63	39.5		
		OBS																																		
		MIN	44	29	16	26	17	10	7	17	14	10	-1	2	24	13	5	4	25	34	29	34	37	35	29	22	32	21	11	11	14	25	40	20.5		
		OBS	***																																	
PATUXENT RIVER																																				
	MID	MAX	55	37	31	37	28	21	22	26	29	29	36	38	43	25	26	38	47	51	43	44	52	40	45	48	44	34	31	35	33	55	64	38.3		
		OBS	39	56																																
		MIN	37	22	20	28	15	12	12	17	14	12	13	9	25	10	11	10	28	32	31	35	39	32	27	27	32	19	14	18	18	32	42	22.4		
		OBS	20	39																																
UPPER SOUTHERN																																				
ANNAPOLIS POLICE BRKS																																				
	17	MAX	56	48	32	39	38	21	22	28	32	31	34	37	42	34	35	36	43	46	45	44	55	49	43	48	45	35	32	35	35	51	61	39.7		
		MIN	44	29	19	25	17	8	8	17	17	14	9	7	26	15	4	4	23	29	25	35	38	35	31	26	32	21	15	15	15	27	36	21.5		
BALTIMORE WSD AP																																				
	MID	MAX	53	35	31	39	26	20	22	27	30	32	36	38	45	23	28	40	43	47	47	45	52	40	43	52	41	34	28	31	33	52	62	37.9		
		MIN	35	19	16	26	13	10	8	17	14	9	3	5	23	10	10	8	23	35	28	38	39	27	26	22	33	17	8	10	13	20	36	19.4		
BELTSVILLE																																				
	08	MAX	49	53	33	31	40	19	20	27	30	29	30	35	40	44	23	28	46	45	45	46	44	51	39	43	52	39	20	30	33	36	52	37.2		
		OBS	***	***	***																															
		MIN	19	25	14	19	15	8	7	12	11	5	-3	0	6	10	7	3	5	21	27	28	36	33	28	21	25	20	6	8	10	18	26	15.2		
		OBS	***	***	***																															

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# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
JANUARY 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			
COLLEGE PARK	09	MAX MIN OBS	51 24 27	54 17 17	35 25 15	40 15 8	21 8 10	22 10 15	23 15 19	28 19 19	31 7 2	31 2 6	36 13 12	39 13 12	47 12 9	24 9 8	29 8 15	44 28 28	47 30 32	46 32 38	50 38 34	52 34 28	40 28 22	43 22 25	53 25 20	28 14 14	27 14 21	32 11 14	35 14 21	35 21 25	53 25 25	38.2 18.5				
DALECARLIA RESVR D C	17	MAX MIN OBS	53 30 30	46 24 17	32 17 12	42 12 6	39 6 7	21 6 12	23 7 12	29 10 10	30 3 1	34 1 0	38 0 17	38 5 6	28 6 16	42 16 23	47 31 31	49 27 32	43 32 31	57 31 32	46 32 21	44 21 15	51 28 17	50 28 17	34 12 12	32 10 12	36 12 17	36 10 12	56 40 40	65 27 27	40.9 16.7					
GLENN DALE BELL STN	16	MAX MIN	54 44	54 26	36 12	40 25	38 14	23 4	24 0	24 18	31 6	33 0	41 -5	40 -1	47 24	39 4	30 2	36 8	32 20	41 31	49 23	45 33	52 33	52 32	41 26	46 17	53 32	34 19	35 5	32 4	34 10	35 15	46 34	58 34	40.0 16.6	
LAUREL 3 W	MID	MAX MIN																																		M M
NATIONAL ARBORETUM D C	08	MAX MIN OBS	50 17 26	55 26 16	35 16 21	32 15 8	40 8 8	32 8 12	26 8 12	28 8 15	33 8 15	33 8 15	37 8 15	39 8 15	47 8 15	31 6 10	28 6 10	45 26 27	48 35 33	46 33 29	45 33 20	52 33 29	44 29 20	43 20 23	52 23 21	42 15 15	36 12 13	34 13 13	35 22 22	56 22 22	40.0 16.4					
UPPER MARLBORO 3 NNW	08	MAX MIN	50 20	56 29	33 15	30 20	39 15	19 10	20 7	21 11	26 14	31 2	32 -4	36 -2	40 7	46 9	22 5	30 2	44 3	48 20	52 27	45 27	45 37	51 35	39 30	42 21	52 22	38 24	24 10	31 8	33 9	35 11	54 20	37.5 15.0		
NORTHERN EASTERN SHORE	05																																			
CHESTERTOWN	23	MAX MIN	52 38	38 19	30 16	38 28	28 14	21 11	21 10	26 16	30 13	29 8	35 -1	38 4	44 25	25 6	27 4	40 6	44 26	40 31	42 28	44 35	49 36	41 27	43 25	52 25	42 32	36 19	34 17	32 15	35 11	50 24	63 39	37.7 19.6		
MILLINGTON 1 SE	18	MAX MIN OBS	51 39 25	44 25 14	29 14 27	38 17	36 10	22 9	21 16	25 13	30 13	30 1	31 -4	36 -1	45 22	45 12	25 1	37 2	43 20	40 34	43 24	45 35	52 35	46 30	42 23	50 21	42 20	42 15	30 13	34 12	50 22	62 29	38.6 18.0			
NORTHERN CENTRAL	06																																			
ABERDEEN PHILLIPS FLD	16	MAX MIN			41 27	39 16	21 8	22 10	25 19			31 18	34 0	45 5	36 33	26 14					45 29	43 35	50 39	49 34			37 33	34 20	28 14	30 11	32 12		60 29	M M		
BALTIMORE WSO CI	MID	MAX MIN	53 38	38 26	29 24	43 14	24 12	21 12	21 16	25 23	29 18	31 12	34 18	38 12	45 24	26 11	40 17	43 29	43 34	47 34	45 34	51 39	40 30	41 29	52 29	43 32	34 16	30 14	32 17	31 21	48 30	62 36	37.5 23.4			
BENSON POLICE BARRACKS	17	MAX MIN	51 31	43 20	30 10	43 20	39 9	22 4	23 4	24 9	31 10	34 7	38 3	46 18	34 7	29 -2	40 1	44 15	42 28	45 23	49 29	46 30	41 26	41 21	51 21	47 29	34 17	30 8	32 7	34 19	48 27	60 27	38.9 15.0			
BOYDS 2 NW	18	MAX MIN	52 37	38 23	30 18	42 23	34 11	18 6	20 8	24 14	28 20	33 13	36 9	43 27	29 18	26 9	43 12	44 26	52 35	50 30	40 31	48 26	41 31	40 26	50 32	49 14	33 10	28 10	31 6	33 15	49 23	60 40	37.8 20.8			
CATOCTIN MOUNTAIN PARK	17	MAX MIN	40 30	43 17	26 16	35 22	32 6	19 1	21 5	24 10	24 15	24 10	28 16	36 20	41 6	25 4	24 13	40 22	43 34	52 29	52 32	40 34	40 34	36 24	32 22	45 25	40 30	31 9	23 9	26 12	28 13	48 22	54 37	34.6 17.9		
CLARKSVILLE 3 NNE	17	MAX MIN	52 40	44 25	31 11	43 25	37 15	19 8	22 5	26 16	30 9	30 7	35 -9	37 -3	45 18	31 12	28 2	40 3	45 14	50 34	47 24	44 35	50 34	43 31	42 20	50 18	49 32	34 18	30 4	32 -3	34 2	52 12	61 24	39.1 15.6		
CONOWINGO DAM	MID	MAX MIN	46 31	37 14	32 23	44 20	38 7	25 4	25 6	26 13	34 10	34 3	34 -5	34 1	47 19	24 0	28 -1	35 2	39 11	40 26	43 24	40 31	48 32	40 20	41 17	51 20	36 17	34 10	31 6	42 16	42 5	54 32	37.0 13.8			
DAMASCUS 2 SW	19	MAX MIN	50 36	36 19	29 18	39 23	32 11	17 6	20 6	24 11	27 18	29 12	31 10	36 15	43 26	26 9	40 13	43 26	51 35	47 31	40 33	49 33	40 28	40 26	49 27	40 32	49 14	32 9	27 9	31 13	33 23	48 41	60 20	36.6 20.0		
EMMITSBURG 2 SE	17	MAX MIN OBS	46 33 23	46 23 12	28 12 21	41 26 11	35 7	19 7	20 14	25 14	28 14	28 14	30 14	32 6	42 15	28 0	28 -8	30 2	28 1	29 4	37 3	37 20	43 32	47 26	39 33	48 33	42 29	39 20	46 23	45 31	33 15	27 7	30 4	31 7	50 25	35.5 15.3
FREDRICK POLICE BRKS	17	MAX MIN OBS	49 37	44 30	32 16	44 27	37 13	23 8	22 9	29 9	31 21	33 13	30 9	36 12	44 26	35 12	30 9	40 11	40 27	43 35	49 36	43 35	50 35	46 32	41 28	49 26	49 32	35 16	30 15	32 14	33 15		58 34	38.6 21.4		
ROCKVILLE 1 NE	17	MAX OBS MIN OBS	50 32 15	52 32 15	29 13	40 22	39 9	15 5	22 9	26 16	28 12	29 7	32 1	38 6	45 21	44 12	30 10	28 8	46 43	56 30	48 34	44 38	44 29	49 30	33 29	48 16	51 31	32 15	29 15	33 14	37 10	34 22	51 26	38.1 17.6		
TOWSON	18	MAX MIN OBS	52 40	45 23	31 17	34 14	43 5	21 5	25 7	26 6	30 17	31 12	35 5	38 10	45 25	32 9	31 5	39 4	42 19	44 31	45 29	45 29	48 34	43 29	40 22	50 22	44 14	38 9	29 11	32 13	48 12	60 31	38.5 17.4			

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# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
JANUARY 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		
UNIONVILLE	18	MAX OBS	47	40	30	43	32	21	22	25	31	29	31	38	45	33	27	42	43	51	43	40	48	40	40	47	47	31	32	35	33	48	56	37.4	
		MIN OBS	33	12	11	23	11	5	2	14	7	-5	-10	0	20	6	0	3	12	33	22	34	31	29	22	21	22	3	-4	0	13	15	24	13.2	
WESTMINSTER POLICE BRK	17	MAX OBS	47	41	29	39	39	17	20	23	26	26	29	35	41	32	24	38	41	45	50	42	46	44	38	46	47	35	25	27	31	49	51	36.2	
		MIN OBS	34	19	14	19	8	3	5	10	16	11	8	12	23	8	3	10	20	31	28	30	30	21	20	22	29	12	7	8	10	22	36	17.1	
WOODSTOCK	18	MAX MIN	51	41	30	44	37	21	22	25	31	28	35	38	44	29	28	43	45	48	45	43	48	41	41	51	45	34	31	32	34	50	60	38.5	
		MIN	40	24	13	24	12	8	16	15	20	10	-2	4	26	11	4	5	22	34	28	34	35	30	21	22	33	16	9	2	6	17	29	18.3	
APPALACHIAN MOUNTAIN	07	MAX MIN OBS	43	35	28	35	25	18	18	25	31	31	33	42	44	27	30	38	43	57	43	45	45	38	37	53	48	38	28	31	37	54	65	37.6	
CUMBERLAND 2	18	MAX MIN OBS	43	35	28	35	25	18	18	25	31	31	33	42	44	27	30	38	43	57	43	45	45	38	37	53	48	38	28	31	37	54	65	37.6	
		MIN	19	14	15	8	5	4	6	14	9	2	2	11	13	8	8	10	21	27	27	36	28	26	26	30	10	13	14	17	21	31	16.2		
FROSTBURG 2	07	MAX MIN	43	40	25	28	28	7	8	11	22	21	22	34	43	39	15	23	41	46	48	36	44	38	25	29	46	31	11	17	22	45	56	30.5	
		MIN	13	12	11	16	0	-3	-3	-1	9	9	2	2	24	10	6	5	16	29	25	26	31	22	20	23	27	10	5	7	12	15	40	13.3	
HAGERSTOWN	18	MAX MIN	42	33	29	40	24	18	19	24	31	29	29	34	45	26	26	40	41	58	42	40	44	39	39	49	44	33	29	33	33	48	58	36.1	
		MIN	31	19	16	24	10	5	5	14	18	13	3	8	26	9	0	9	27	34	28	34	32	25	24	30	32	13	13	11	13	20	32	18.6	
HANCOCK FRUIT LAB	16	MAX MIN	45	39	33	40	32	15	19	24	32	32	30	34	45	30	30	39	41	55	54	42	46	42	39	53	52	33	27	32	32	48	62	38.0	
		MIN	29	20	9	25	9	5	3	15	17	3	-6	3	24	12	4	4	33	25	28	29	28	29	21	23	31	13	7	14	11	19	28	16.6	
ALLEGHENY PLATEAU	08	MAX MIN	40	33	24	27	26	4	6	12	26	20	18	28	45	35	13	28	46	53	47	40	56	35	24	30	46	31	10	20	21	40	52	30.2	
		MIN	32	8	9	18	-4	-6	-6	0	10	11	6	6	24	6	6	6	20	38	26	30	33	18	18	21	27	0	0	5	10	20	13.1		
OAKLAND 1 SE	17	MAX OBS MIN	42	28	29	27	21	7	17	23	22	22	32	46	45	32	28	42	55	50	46	57	55	31	27	46	36	30	16	21	25	46	58	33.9	
		MIN	27	11	7	21	-1	-4	-11	8	12	-5	-16	-1	17	7	-1	1	23	39	23	34	30	20	21	21	28	1	7	1	0	22	27	11.9	
SAVAGE RIVER DAM	08	MAX OBS MIN	43	41	28	30	30	12	11	14	24	25	24	33	42	42	20	29	41	44	50	38	41	41	30	33	49	35	16	21	26	32	56	32.3	
		MIN	12	16	11	13	4	1	-2	0	12	10	-3	-3	11	12	4	4	9	21	25	25	32	26	23	23	27	6	6	5	10	13	19	12.0	
DELAWARE																																			
NORTHERN	01	MAX OBS MIN	49	40	29	36	36	20	20	25	28	30	30	36	43	31	24	36	43	39	44	42	48	41	41	51	41	34	28	29	33	49	62	36.7	
		MIN	38	19	15	27	15	10	9	16	16	8	21	7	23	6	3	4	21	33	28	35	35	29	22	23	32	18	12	12	12	21	35	18.9	
MIDDLETOWN 3 E	17	MAX OBS MIN	48	42	31	41	38	20	22	25	29	30	32	36	45	34	26	37	44	40	45	45	50	44	42	52	43	34	27	28	34	47	60	37.8	
		MIN	38	22	14	26	7	7	10	11	18	9	0	6	17	10	2	5	18	33	26	35	37	29	21	21	31	17	10	10	10	20	26	17.6	
NEWARK UNIVERSITY FARM	17	MAX MIN	48	42	31	41	38	20	22	25	29	30	32	36	45	34	26	37	44	40	45	45	50	44	42	52	43	34	27	28	34	47	60	37.8	
		MIN	38	22	14	26	7	7	10	11	18	9	0	6	17	10	2	5	18	33	26	35	37	29	21	21	31	17	10	10	10	20	26	17.6	
WILMINGTON WSO AP	MID	MAX MIN	48	35	31	40	24	20	22	27	28	30	33	35	44	23	26	35	39	40	46	45	51	37	39	51	39	34	27	27	32	45	60	35.9	
		MIN	35	18	15	24	11	10	10	10	18	16	10	3	8	22	6	7	8	19	32	28	37	34	26	23	22	31	16	14	14	26	27	18.8	
WILMINGTON PORTER RESVR	MID	MAX MIN	49	34	30	40	23	19	20	26	30	29	30	35	42	21	26	36	40	40	44	44	49	38	39	49	40	35	26	26	32	45	58	35.3	
		MIN	33	19	18	23	10	9	11	16	18	12	8	15	22	8	7	12	26	34	29	36	37	27	27	26	33	15	12	14	15	28	35	20.5	
SOUTHERN	02																																		
DOVER	17	MAX MIN	54	51	38	40	37	23	22	29	30	30	34	38	37	36	35	40	42	42	46	48	52	48	44	47	49	40	32	33	34	54	65	40.3	
		MIN	44	20	28	28	16	9	10	16	16	9	1	8	30	10	5	6	30	40	28	38	38	33	30	33	40	22	16	15	14	34	44	22.9	
GEORGETOWN 5 SW	08	MAX OBS MIN	50	53	34	34	39	23	21	29	34	28	29	34	41	41	18	31	43	50	47	46	54	55	42	41	52	45	34	31	33	40	56	39.0	
		MIN	29	31	16	28	20	10	9	14	15	15	-1	-2	5	12	14	33	29	32	41	33	31	24	31	32	17	16	14	20	40	40	21.0		
GREENWOOD 2 NE	18	MAX MIN	54	46	31	39	35	20	22	27	30	31	36	40	43	28	29	39	48	46	45	48	51	51	42	52	44	35	31	32	37	51	64	39.6	
		MIN	43	28	17	29	19	9	10	17	15	8	0	1	23	12	8	3	22	35	28	36	42	34	29	25	35	21	16	17	15	28	44	21.6	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
JANUARY 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	
LEWES	17	MAX	53	53	33	41	42	21	21	36	28	28	30	40	40	38	23	39	45	49	44	53	51	44	41	49	43	37	31	33	33	55	65	40.0
		MIN	47	28	22	31	18	11	11	20	21	17	11	10	30	14	10	9	27	39	32	36	40	34	30	27	35	21	18	19	21	29	49	24.7
MILFORD 4 SE	17	MAX	55	42	31	37	35	21	22	28	28	29	30	37	42	35	22	36	44	46	44	49	51	47	41	51	46	36	31	33	39	54	64	38.9
		MIN	40	27	16	29	18	10	9	19	16	9	0	0	22	12	5	2	20	34	30	34	41	33	27	25	35	21	16	17	16	27	44	21.1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND  
DELAWARE  
JANUARY 1988

STATION	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																															
SALISBURY FAA AP				5			1.2	2.7																							
SNOW HILL 4 N				T				4	3	2	2	2	2	1	1	1	1														
CENTRAL EASTERN SHORE 02				T				4.0	T		1	T	T	T	T	T															
CAMBRIDGE WTR TRMT PL				T				5.5																							
DENTON 2 E								6	5	5	4	4	3	3	3	3	3	3	T												
ROYAL OAK 2 SSW								9.0																							
VIENNA				T				7.0																							
LOWER SOUTHERN 03				T				6	6	5	5	4	4	4	4	3	3	T	T	T											
LA PLATA 1 W								5.0																							
OWINGS FERRY LANDING																															
UPPER SOUTHERN 04																															
ANNAPOLIS POLICE BRKS																															
BALTIMORE WSO AP																															
BELTSVILLE																															
COLLEGE PARK																															
GLENN DALE BELL STN																															
NATIONAL ARBORETUM D C																															
UPPER MARLBORO 3 NNW																															
NORTHERN EASTERN SHORE 05																															
CHESTERTOWN																															
NORTHERN CENTRAL 06																															
ABERDEEN PHILLIPS FLD																															

SNOWFALL: INCLUDES SNOW AND ICE  
 SNOW ON GROUND: INCLUDES SNOW, SLEET, ICE AND HAIL  
 WATER EQUIVALENT: GIVEN FOR NWS STATIONS ONLY, WHEN SNOW DEPTH IS 2 INCHES OR MORE.  
 SEE REFERENCE NOTES FOLLOWING STATION INDEX

# SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND  
DELAWARE  
JANUARY 1988

STATION	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		
CATOCTIN MOUNTAIN PARK	SNOWFALL							4.5													T	T				5.5	4.0						
	SN ON GND	1	1	1	1	1	1	4	4	4	4	3	2	2	2	2	2	T	T	T	T					5	9	8	8	8	3	1	
CONOWINGO DAM	SNOWFALL			3				1.0	5.0																	2.5							
	SN ON GND																																
DAMASCUS 2 SW	SNOWFALL				8				5.4																	5.9	6						
	SN ON GND	T	T	T	T	T	T	T	5	4	4	3	3	2	2	2	2	T	T	T					6	6	5	4	4	3	T		
EMMITSBURG 2 SE	SNOWFALL								5.0																	3.0	2.0						
	SN ON GND								5	4	3	2	2	2	2	1	1									3	5	4	4	4	2	2	
FREDRICK POLICE BRKS	SNOWFALL								5.0																	2.0	2.0						
	SN ON GND								5			2	1	T	T	T	T	T	T	T						2	4	3	2	1	T		
ROCKVILLE 1 NE	SNOWFALL			6	6			2.0	4.0																								
	SN ON GND			1	T	T	T	2	5	5	4	3	3	2	1	T	T	T															
HOODSTOCK	SNOWFALL				1.5				6.0																		4.0	2.0					
	SN ON GND				2				6	5	5	5	4	4	3	3	2	2	1	T						4	6	5	5	4	3	1	
APPALACHIAN MOUNTAIN 07																																	
CUMBERLAND 2	SNOWFALL				T				4.0						T																		
	SN ON GND				T				4	4	3	2	2	2	1	1	1	1															
FROSTBURG 2	SNOWFALL				3	1.5	T	T	6.0	1.5	T	T			1.5	T																	
	SN ON GND	T	T	T	T	1	T	1	6	7	6	5	4	3	4	3	3	1	T	3	1	T	1	1.5	T	7	0	2	T	T	7	5	2
HANCOCK FRUIT LAB	SNOWFALL								5.0																		1.0	3.0					
	SN ON GND								5	4	4	3	2													1	3	2	1	T			
ALLEGHENY PLATEAU 08																																	
MC HENRY 2 NW	SNOWFALL				1.0	1.0			3.0	1.0					1.0																		
	SN ON GND				1	2	2	2	4	5	4	3	3	2	3	3	3	2	T														
OAKLAND 1 SE	SNOWFALL				1.5	2.0	T	T	4.5	1.0	T				1.0	2.0																	
	SN ON GND				2	2	2	2	7	8	8	7	2	1	3	2																	
SAVAGE RIVER DAM	SNOWFALL				T	T	T	T	5.0	T	T																						
	SN ON GND				T	T	T	T	5	5	5	4	3	1	1	1	1	1															
DELAWARE																																	
NORTHERN 01																																	
NEWARK UNIVERSITY FARM	SNOWFALL					5			4.5																								
	SN ON GND					1			5	4	4	4	3	3	3	3	3	2															
WILMINGTON WSO AP	SNOWFALL				8	9			6.1																								
	SN ON GND				2	T	T	T	3	6	5	4	3	2	1	1	1	T	T	T	T												
	WTR EQUIV								6	4	4	4	3																				
WILMGTN PORTER RESVR	SNOWFALL				5	T			4.0																								
	SN ON GND																																
SOUTHERN 02																																	
DOVER	SNOWFALL				1.0				9.0																								
	SN ON GND				1	1	T		9	8	6	5	4	4	3	3	3	2	2	1													
GEORGETOWN 5 SW	SNOWFALL				1.2				4.5																								
	SN ON GND				1					4	4	4	4	3	2	2	1	1															
LEWES	SNOWFALL								4.5																								
	SN ON GND								2																								
MILFORD 4 SE	SNOWFALL								7.0																								
	SN ON GND								7	6	5	4	4	4	4	4	3	2															

SNOWFALL: INCLUDES SNOW AND ICE  
 SNOW ON GROUND: INCLUDES SNOW, SLEET, ICE AND HAIL  
 WATER EQUIVALENT: GIVEN FOR NWS STATIONS ONLY, WHEN SNOW DEPTH IS 2 INCHES OR MORE.  
 SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

MARYLAND AND  
DELAWARE  
JANUARY 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	0015	06	HARFORD	39 28	76 10W	57	16	16		C	H	ROSS AVIATION INC
ANNAPOLIS POLICE BRKS	0193	04	ANNE ARUNDEL	38 59	76 30W	25	17	17			H	ANNAPOLIS POLICE BRKS
ASSATEAGUE ISLAND NATL	0033	01	WORCESTER	38 14	75 8W	7	07	07			H	NATIONAL PARK SERVICE
BALTIMORE WSO AP	0046	04	ANNE ARUNDEL	39 11	76 40W	196	MID	MID		C	H	NATL WEATHER SERVICE
BALTIMORE WSO CI	0047	06	BALTO CITY	39 17	76 37W	91	MID	MID		C	H	OCMI COMMANDING OFFICER
BELTSVILLE	0700	04	PRN GEORGES	39 2	76 53W	120	08	08	08	C	H	U S DEPT OF AGRICULTURE
BENSON POLICE BARRACKS	0732	06	HARFORD	39 30	76 23W	365	17	17				MARYLAND STATE POLICE
BOYDS 2 NW	1032	06	MONTGOMERY	39 13	77 20W	580	18	18				HUNTER F STALEY
BRIGHTON DAM	1125	06	MONTGOMERY	39 12	77 1W	330		MID				WASH SUB SANY COMM
CAMBRIDGE WTR TRMT PL	1385	02	DORCHESTER	38 34	76 4W	5	16	16			H	WASTEWATER TRMT PLANT
CATOCTIN MOUNTAIN PARK	1530	06	FREDERICK	39 39	77 29W	1610	17	17		C	H	CATOCTIN MOUNTAIN PARK
CHESTERTOWN	1750	05	KENT	39 13	76 4W	440	23	23			H	THOMAS W ELIASON JR
CLARKSVILLE 3 NNE	1862	06	HOWARD	39 15	76 56W	365	17	17			H	UNIVERSITY OF MARYLAND
COLLEGE PARK	1995	04	PRN GEORGES	38 59	76 57W	90	09	09		C	H	UNIVERSITY OF MARYLAND
CONOWINGO DAM	2060	06	HARFORD	39 39	76 10W	40	MID	MID			H	SUSQUEHANNA ELECTRIC CO
CRISFIELD SOMERS COVE	2215	01	SOMERSET	37 59	75 52W	8	17	17			H	SOMERS COVE MARINA
CUMBERLAND 2	2282	07	ALLEGANY	39 38	78 45W	730	18	07			H	TIMOTHY B THOMAS
DALECARLIA RESVR D C	2325	04		38 56	77 7W	146	17	17			H	U S CORPS OF ENGINEERS
DAMASCUS 2 SW	2335	06	MONTGOMERY	39 16	77 14W	720	19	19			H	RICHARD W SCHWERDT
DENTON 2 E	2523	02	CAROLINE	38 53	75 48W	50	17	17			H	ARTHUR REINHOLD
EDGEMONT	2770	07	WASHINGTON	39 40	77 33W	905		07			H	JOHN W HARNE
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 18W	416	17	17			H	MRS LUCILLE K BEALE
FREDERICK POLICE BRKS	3048	06	FREDERICK	39 25	77 26W	380	17	17			H	MARYLAND STATE POLICE
FREDERICK 3 E	3355	06	FREDERICK	39 24	77 22W	385		07			H	MISS I MARY STALEY
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2170	07	07			H	LEE K CLOSE
GLENN DALE BELL STN	3675	04	PRN GEORGES	38 58	76 48W	150	16	16			H	USDA PLT INTRODUCT STN
HAGERSTOWN	3975	07	WASHINGTON	39 39	77 44W	660	18	18			H	HAGERSTOWN RESERVOIR
HANCOCK FRUIT LAB	4030	07	WASHINGTON	39 42	78 11W	428	16	16		C	H	SHARPSBURG RESEARCH C
LA PLATA 1 W	5080	03	CHARLES	38 32	77 0W	140	18	18			H	C RUSSELL LEVERING
LAUREL 3 W	5111	04	PRN GEORGES	39 6	76 54W	400	MID	MID			H	WASH SUB SANY COMM
MC HENRY 2 NW	5832	08	GARRETT	39 35	79 22W	2680	08	08		C	H	JOSEPH F JOHENNING
MECHANICSVILLE 1 E	5865	03	ST MARYS	38 27	76 41W	100	19	19			H	SANDRA J HASTING
MERRILL	5894	08	GARRETT	39 36	79 5W	1790		09			H	DELWOOD E MERRILL
MILLINGTON 1 SE	5985	05	KENT	39 16	75 52W	30	18	18			H	HOWARD L HARVEY
NATIONAL ARBORETUM D C	6350	04		38 54	76 59W	50	08	08			H	U S NATL ARBORETUM
OAKLAND 1 SE	6620	08	GARRETT	39 24	79 24W	2420	17	17			H	BEA J CROSCO
OWINGS FERRY LANDING	6770	03	CALVERT	38 41	76 40W	160	17	17			H	JAMES C RASMUSSEN
PATUXENT RIVER	6915	03	ST MARYS	38 20	76 25W	38	MID	MID		C	H	NAVAL WEATHER SERVICE
POTOMAC FILTER PLANT	7272	06	MONTGOMERY	39 2	77 15W	270		08			H	POTOMAC WATER FILT PLT
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	17	17			H	UNIVERSITY MARYLAND EAST
ROCKVILLE 1 NE	7705	06	MONTGOMERY	39 6	77 6W	440	17	17			H	WASH GAS & LIGHT CO
ROYAL OAK 2 SSW	7806	02	TALBOT	38 43	76 11W	10	18	18			H	JOHN L SWAINE JR
SALISBURY	8000	01	WICOMICO	38 22	75 35W	10	17	17			H	CITY OF SALISBURY
SALISBURY FAA AP	8005	01	WICOMICO	38 20	75 31W	48	MID	MID			H	FAA
SAVAGE RIVER DAM	8065	08	GARRETT	39 31	79 8W	1495	08	08	08	C	H	U S CORPS OF ENGINEERS
SNOW HILL 4 N	8380	01	WORCESTER	38 14	75 23W	28	18	18			H	CURTIS E SHOCKLEY
TOWSON	8877	06	BALTIMORE	39 23	76 34W	390	18	18			H	BENDIX FRIEZ
UNIONVILLE	9030	06	FREDERICK	39 27	77 11W	430	18	18		C	H	CAROLINE R VON EIFF
UPPER MARLBORO 3 NNW	9070	04	PRN GEORGES	38 52	76 47W	98	08	08	08	C	H	TOBACCO EXP FARM
VIENNA	9140	02	DORCHESTER	38 29	75 50W	12	18	18			H	DELMARVA POWER & LIGHT
WESTMINSTER POLICE BRK	9440	06	CARROLL	39 33	76 58W	765	17	17			H	MARYLAND STATE POLICE
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52W	460	18	18			H	JOHN A HILTZ

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

MARYLAND AND  
DELAWARE  
JANUARY 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	2730	02	KENT	39 9	75 31 W	30	17	17		H	STATE DIV OF HIGHWAYS
GEORGETOWN 5 SW	3570	02	SUSSEX	38 38	75 27 W	45	08	08	08	C H	UNIV OF DEL SUBSTATION
GREENWOOD 2 NE	3545	02	SUSSEX	38 50	75 35 W	45	18	18			DANIEL M SWARTZENTRUBER
LEWES	5320	02	SUSSEX	38 46	75 7 W	15	17	17		H	BOARD OF PUBLIC WORKS
MIDDLETOWN 3 E	5852	01	NEW CASTLE	39 27	75 40 W	55	17	17			DAVID S NEYHARD
MILFORD 4 SE	5915	02	SUSSEX	38 54	75 28 W	30	17	17		H H	DAVID S SCHLOTT
NEWARK UNIVERSITY FARM	6410	01	NEW CASTLE	39 40	75 44 W	90	17	17	17	C H H	UNIV OF DELAWARE
WILMINGTON WSO AP	5555	01	NEW CASTLE	39 40	75 36 W	79	MID	MID		C H J	NATL WEATHER SERVICE
WILMGTN PORTER RESVR	9605	01	NEW CASTLE	39 46	75 32 W	274	MID	MID		H	WATER DEPARTMENT

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# REFERENCE NOTES

MARYLAND AND  
DELAWARE  
JANUARY 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.
- J 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.

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NATIONAL CLIMATIC DATA CENTER  
FEDERAL BUILDING  
ASHEVILLE, NC 28801-2696

USCOMM-NOAA-ASHEVILLE, N.C. JANUARY 1988-0585

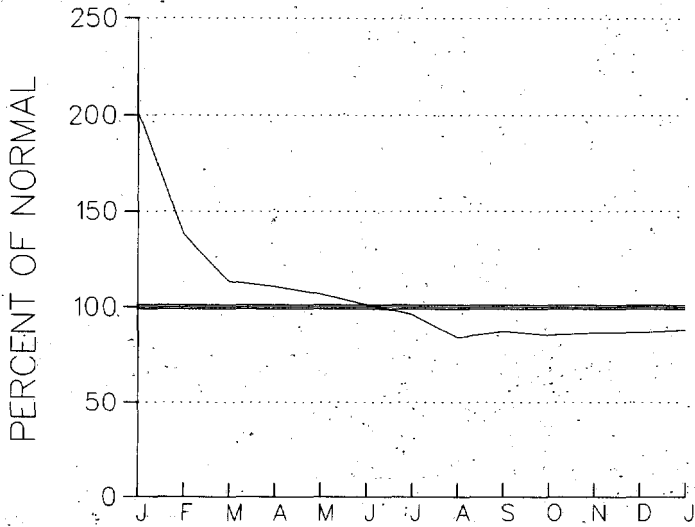
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
 FOR THE LAST 13 MONTHS  
 ENDING JANUARY 1988  
 MARYLAND

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

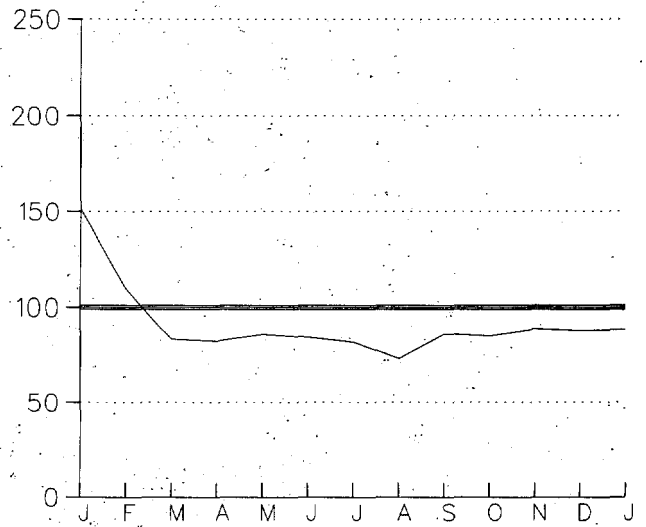
CLUSTER 2 - DIVISION(S):  
 UPPER SOUTHERN 04  
 NORTHERN EASTERN SHORE 05

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

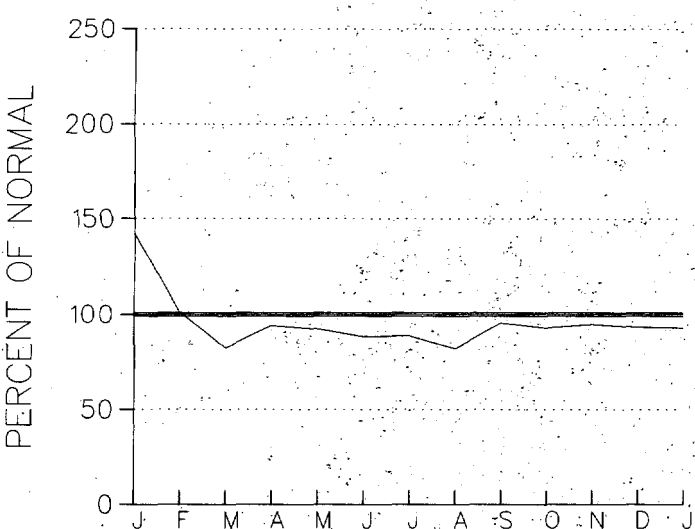
CLUSTER 4 - DIVISION(S):  
 ALLEGHENY PLATEAU 08



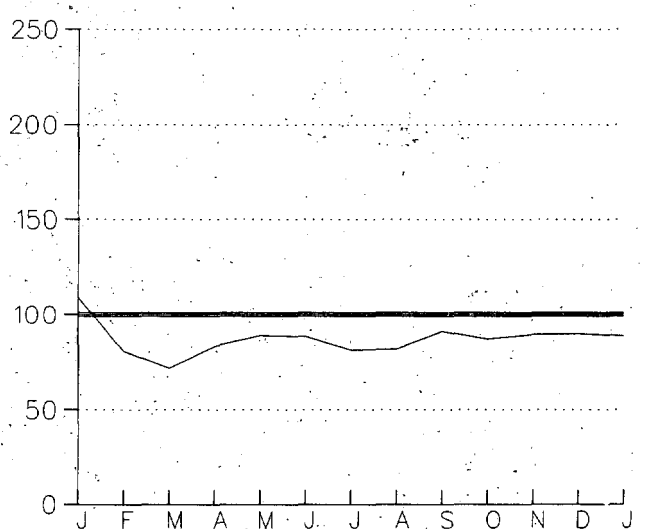
CLUSTER 1



CLUSTER 2



CLUSTER 3



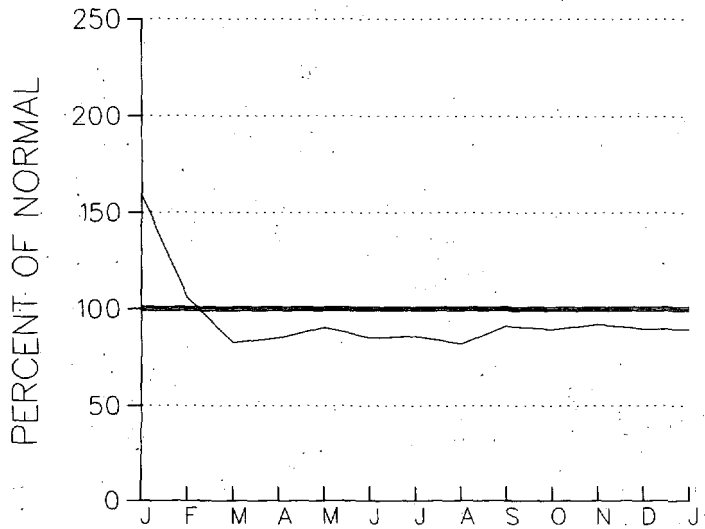
CLUSTER 4



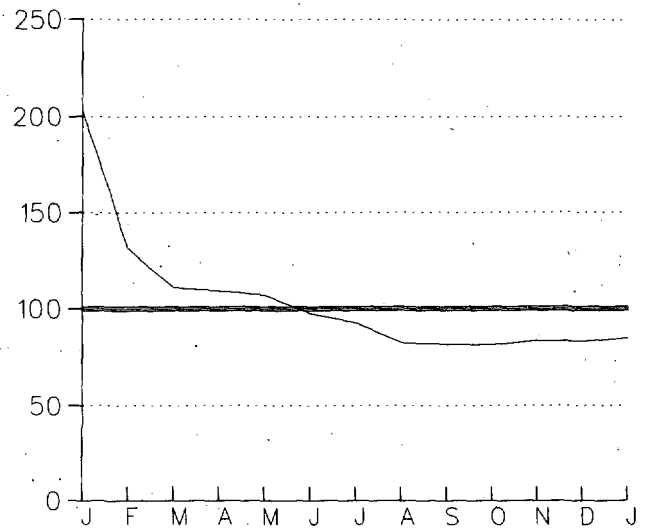
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
FOR THE LAST 13 MONTHS  
ENDING JANUARY 1988  
DELAWARE

CLUSTER 1 - DIVISION(S):  
NORTHERN 01

CLUSTER 2 - DIVISION(S):  
SOUTHERN 02



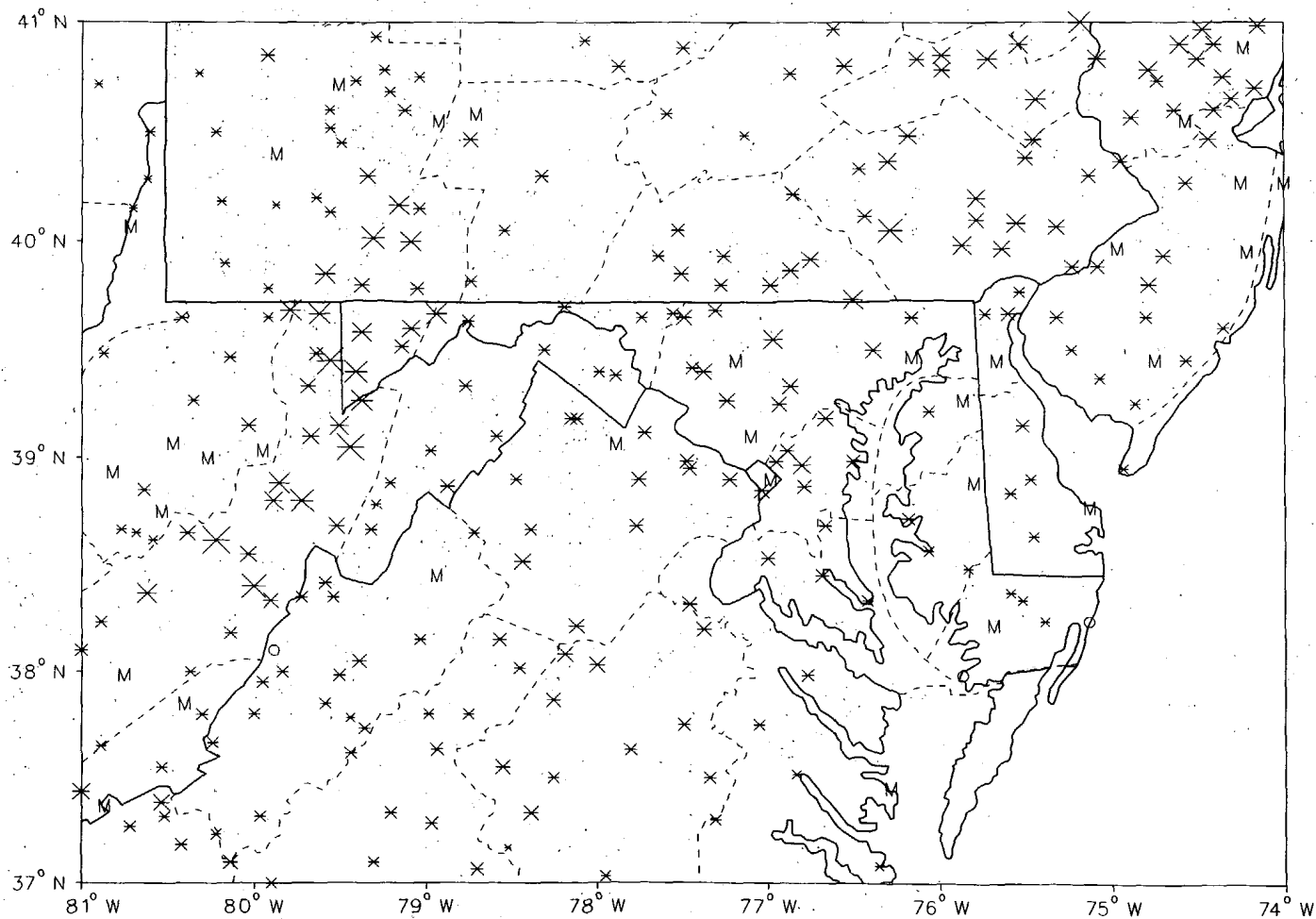
CLUSTER 1



CLUSTER 2

TOTAL MONTHLY SNOWFALL  
MARYLAND & DELAWARE  
JANUARY 1988

- T TRACE SNOWFALL FOR THE MONTH
- ZERO SNOWFALL FOR THE MONTH
- M INCOMPLETE DATA FOR THE MONTH
- xxx/x 5,10,20,..50 INCHES OR MORE TOTAL SNOWFALL



SYMBOL SIZE IS PROPORTIONAL TO TOTAL SNOWFALL ON A CONTINUOUS SCALE

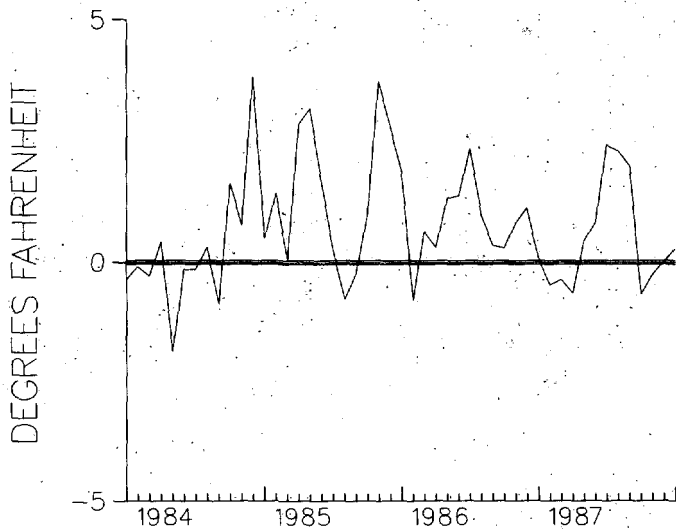
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)  
 THREE MONTH RUNNING MEAN  
 FOR THE 49 MONTHS ENDING WITH JANUARY 1988 DATA  
 MARYLAND

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

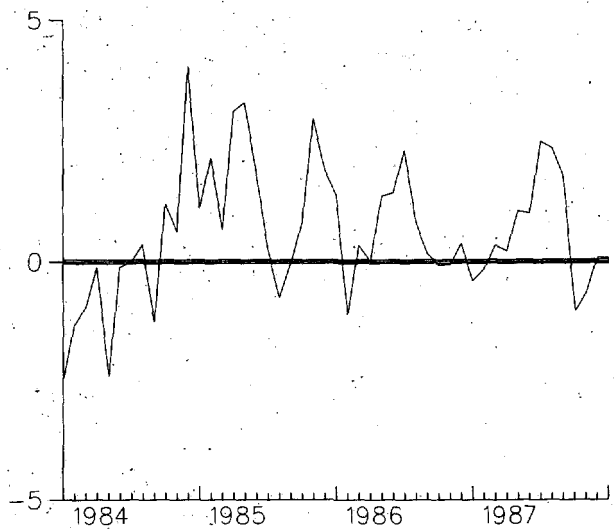
CLUSTER 2 - DIVISION(S):  
 UPPER SOUTHERN 04  
 NORTHERN EASTERN SHORE 05

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

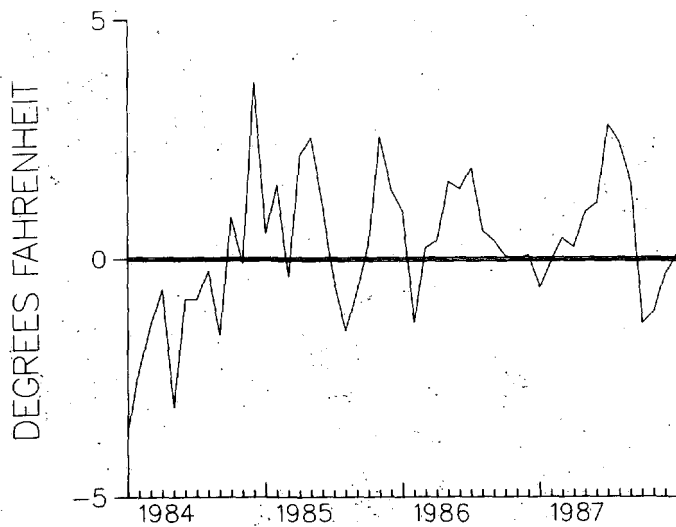
CLUSTER 4 - DIVISION(S):  
 ALLEGHENY PLATEAU 08



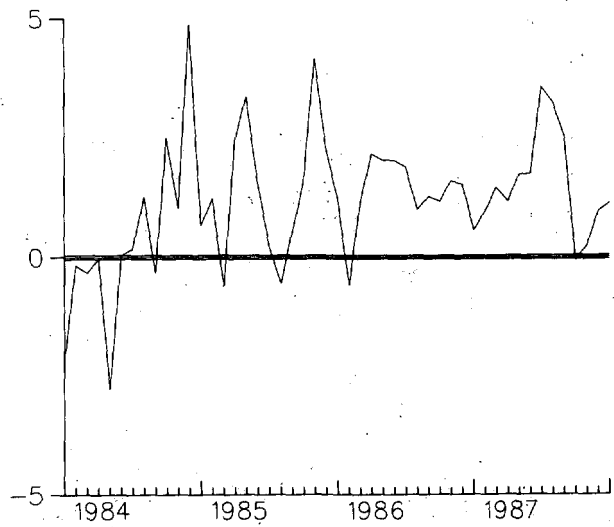
CLUSTER 1



CLUSTER 2



CLUSTER 3

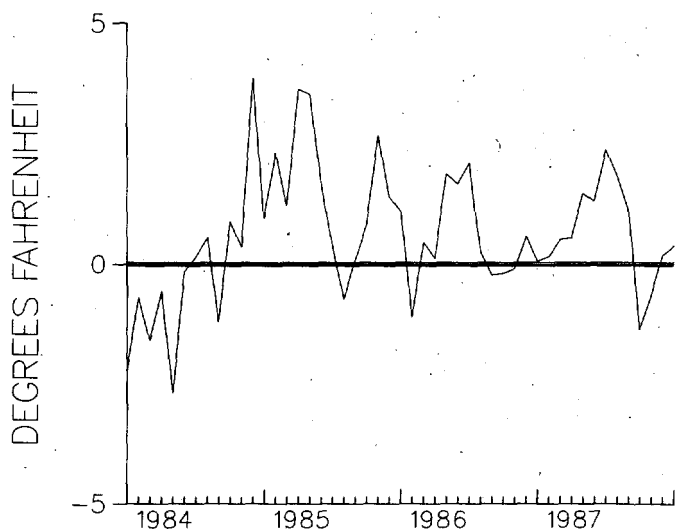


CLUSTER 4

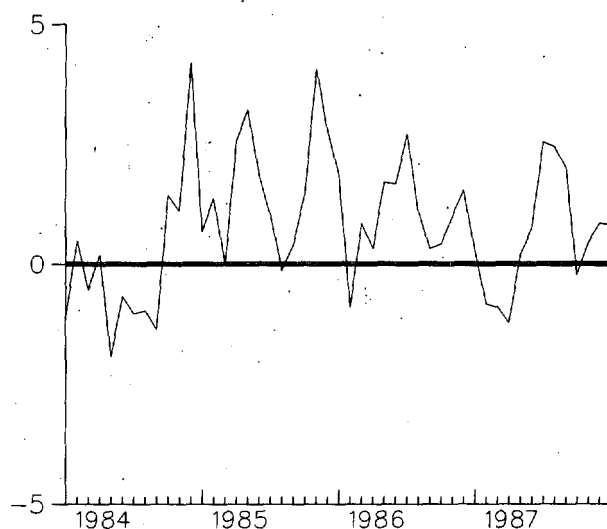
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)  
THREE MONTH RUNNING MEAN  
FOR THE 49 MONTHS ENDING WITH JANUARY 1988 DATA  
DELAWARE

CLUSTER 1 - DIVISION(S):  
NORTHERN 01

CLUSTER 2 - DIVISION(S):  
SOUTHERN 02



CLUSTER 1



CLUSTER 2

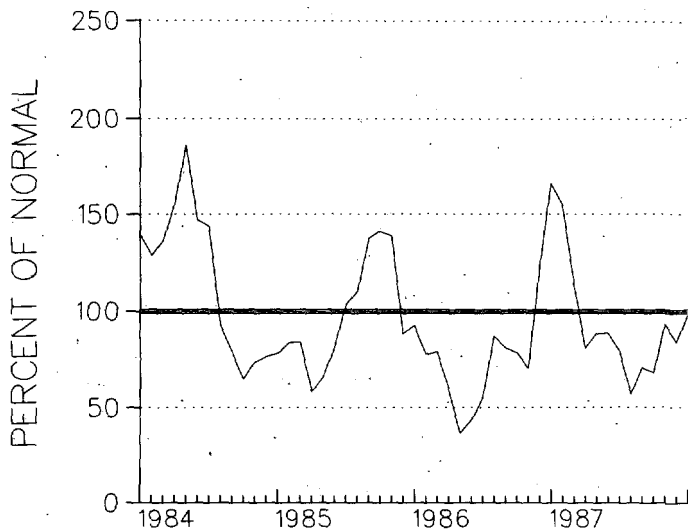
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
 THREE MONTH RUNNING MEAN  
 FOR THE 49 MONTHS ENDING WITH JANUARY 1988 DATA  
 MARYLAND

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

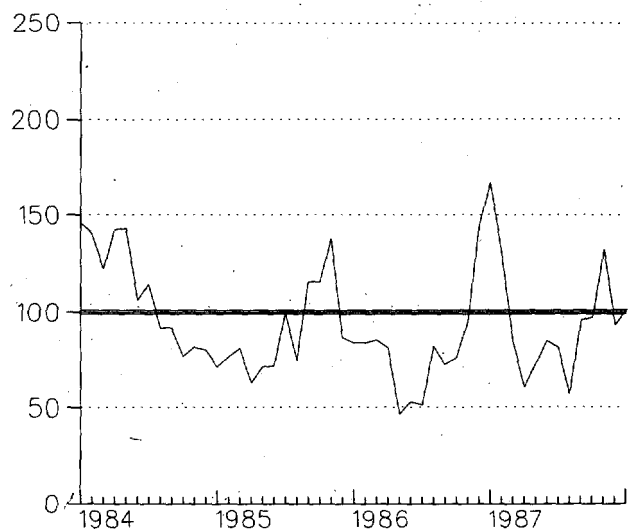
CLUSTER 2 - DIVISION(S):  
 UPPER SOUTHERN 04  
 NORTHERN EASTERN SHORE 05

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

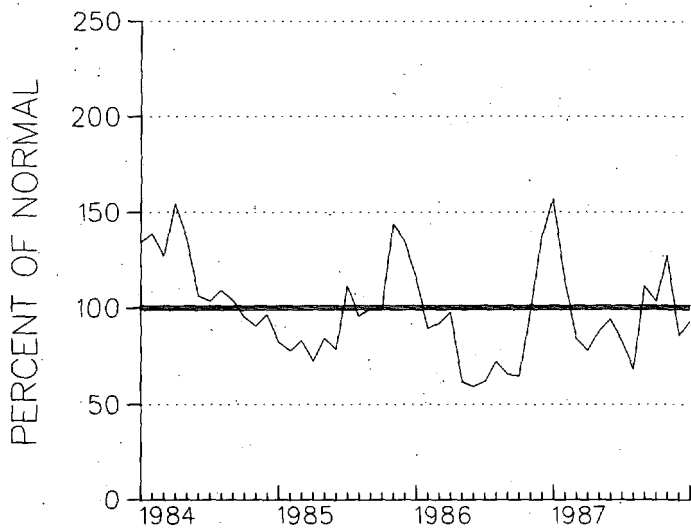
CLUSTER 4 - DIVISION(S):  
 ALLEGHENY PLATEAU 08



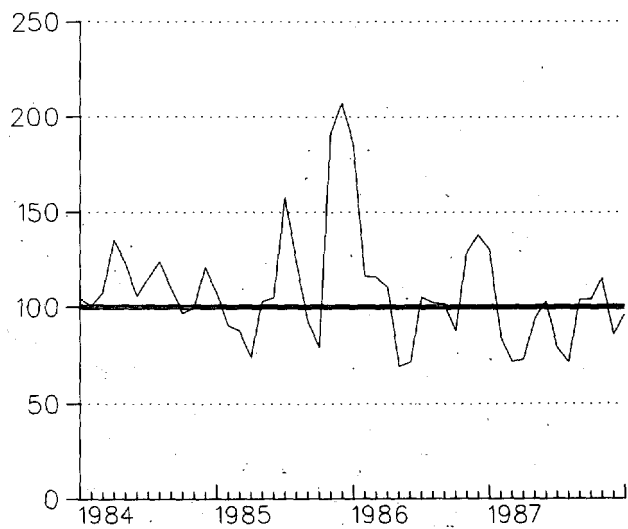
CLUSTER 1



CLUSTER 2



CLUSTER 3

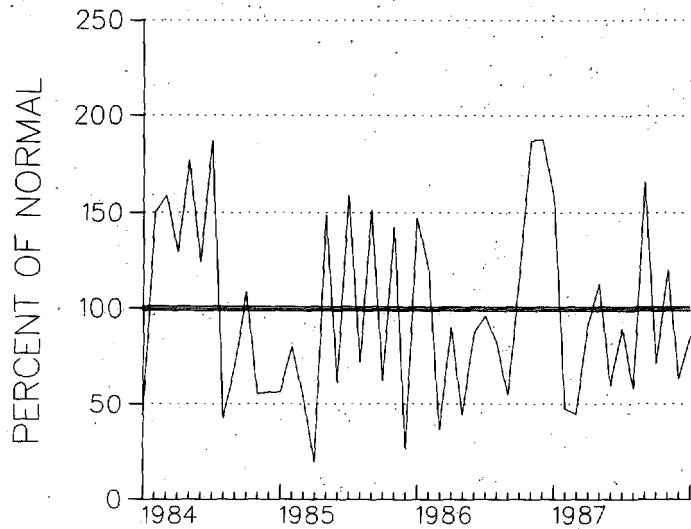


CLUSTER 4

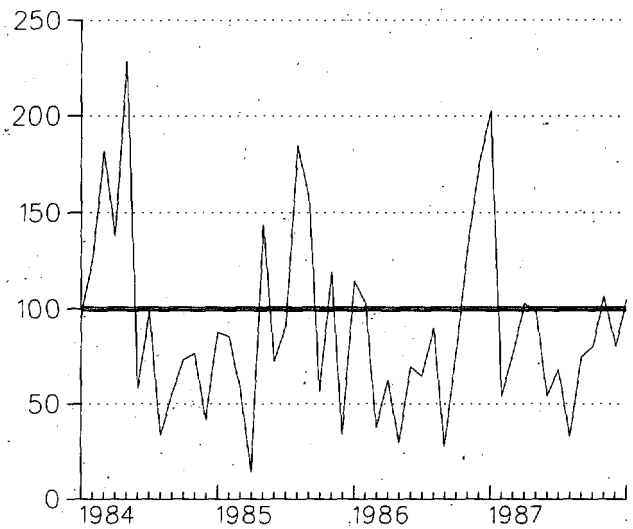
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
FOR THE 49 MONTHS  
ENDING JANUARY 1988  
DELAWARE

CLUSTER 1 -DIVISION(S):  
NORTHERN 01

CLUSTER 2 -DIVISION(S):  
SOUTHERN 02



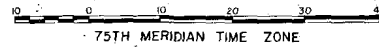
CLUSTER 1



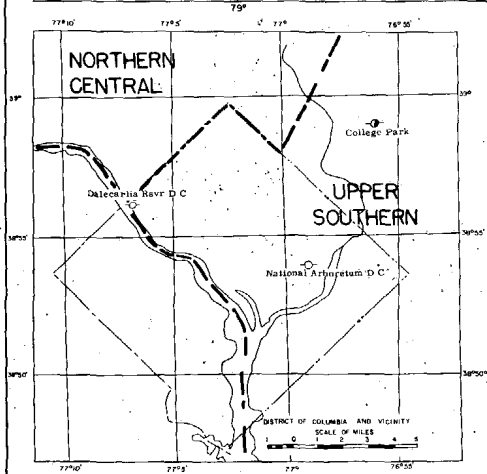
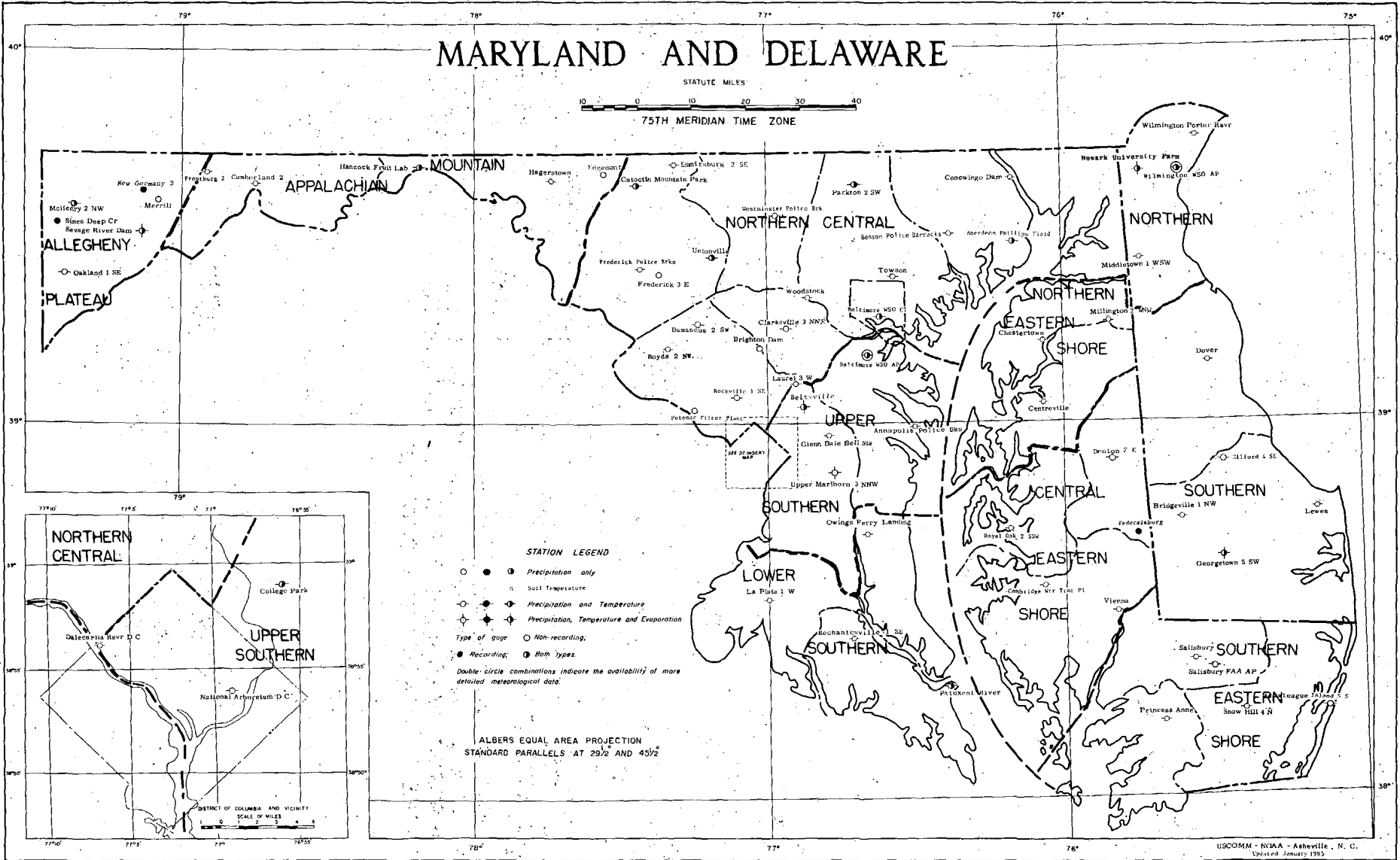
CLUSTER 2

# MARYLAND AND DELAWARE

STATUTE MILES



75TH MERIDIAN TIME ZONE



- 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 45 1/2

CD  
VALIDATED BY:

Ted Burlew  
Jan Carpenter  
Betty Edstrom  
Bruce Emory  
Joyce Morgan  
Betty Shuford

DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
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