



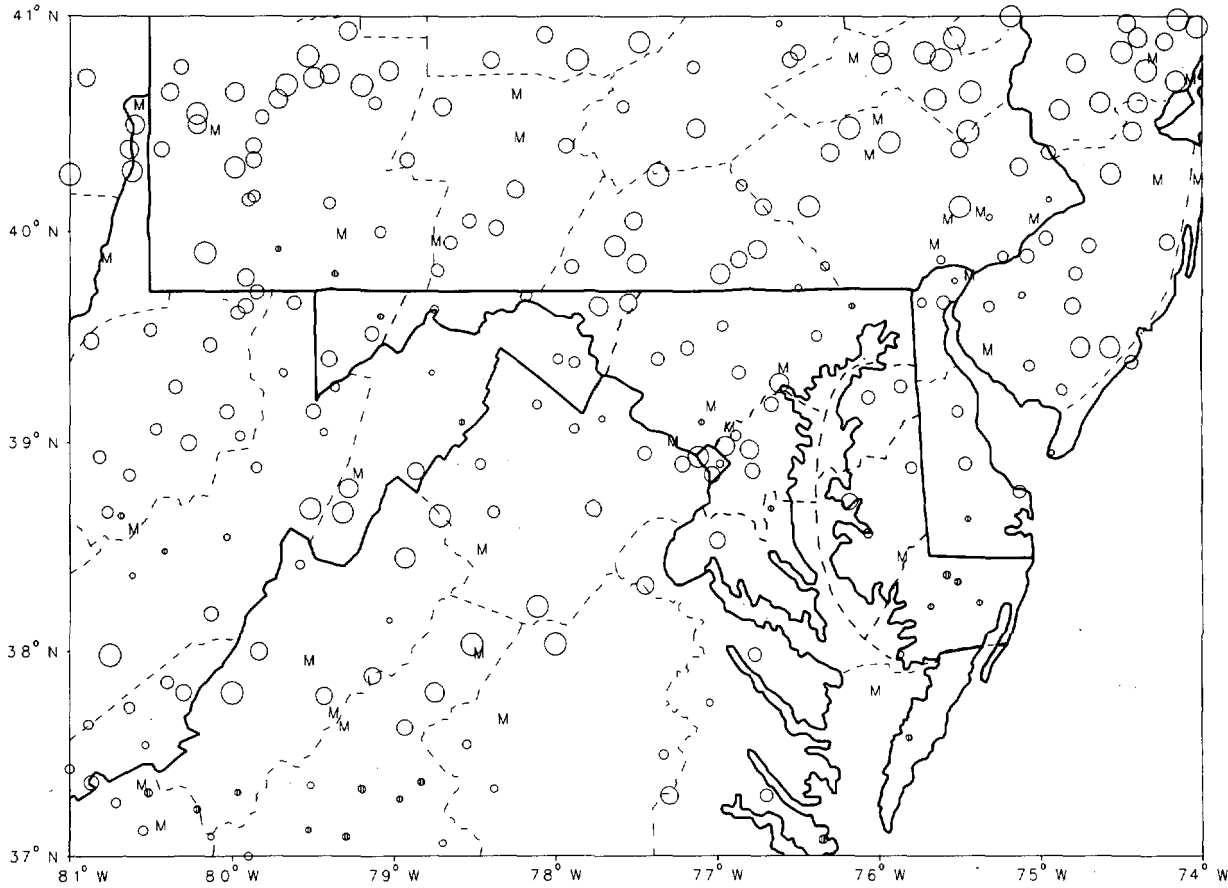
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# CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

APRIL 1988  
VOLUME 92 NUMBER 4

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. Halpern*

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  
APRIL 1988

MARYLAND  
 HIGHEST TEMPERATURE 83  
 LOWEST TEMPERATURE 23  
 GREATEST TOTAL PRECIPITATION 4.19  
 LEAST TOTAL PRECIPITATION 1.94  
 GREATEST 1 DAY PRECIPITATION 2.10  
 GREATEST TOTAL SNOWFALL 6.5  
 GREATEST DEPTH OF SNOW OR ICE 3

DELAWARE  
 HIGHEST TEMPERATURE 76  
 LOWEST TEMPERATURE 26  
 GREATEST TOTAL PRECIPITATION 3.86  
 LEAST TOTAL PRECIPITATION 2.59  
 GREATEST 1 DAY PRECIPITATION 1.38  
 GREATEST TOTAL SNOWFALL .6  
 GREATEST DEPTH OF SNOW OR ICE 1

APRIL 5  
 APRIL 17+

APRIL 7  
 APRIL 29

APRIL 6+  
 APRIL 20

APRIL 7  
 APRIL 19

CUMBERLAND 2  
 2 STATIONS  
 SALISBURY  
 DALECARLIA RESVR D C  
 SALISBURY FAA AP  
 MC HENRY 2 NW  
 MC HENRY 2 NW

2 STATIONS  
 NEWARK UNIVERSITY FARM  
 WILMGTON PORTER RESVR  
 WILMINGTON WSO AP R  
 WILMGTON PORTER RESVR  
 GREENWOOD 2 NE  
 GREENWOOD 2 NE

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND  
DELAWARE  
APRIL 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 SLFET		
									90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW				TOTAL	MAX. DEPTH ON GROUND	DATE
MARYLAND																		
SOUTHERN EASTERN SHORE 01																		
ASSATEAGUE ISLAND NATL SE	64.2	43.3	53.8		79 5	33 20	330	0	0	0	0	0	3.25		1 8			5 3 1
CRISFIELD SOMERS COVE	62.5	46.9	54.7	-1.7	73 6	36 19	304	0	0	0	0	0	2.86	-1.11	1 7			5 6 1
PRINCESS ANNE	64.5	41.3	52.9	-1.9	75 2	33 12	358	0	0	0	0	0	3.51	-1.19	1 7			5 3 1
SALISBURY	64.0	43.9	54.0	-1.8	73 27+	35 20	325	0	0	0	0	0	4.19	-1.88	1 7			5 7 1
SALISBURY FAA AP	62.0	43.1	52.6	-1.6	73 5+	35 17	367	0	0	0	0	0	3.63	-1.47	2 7			6 2 1
SNOW HILL 4 N	63.7	43.2	53.5	-1.1	74 6+	31 17	340	0	0	0	1 0	0	3.41	-1.09	1 7			5 3 1
--DIVISIONAL DATA-->																		
CENTRAL EASTERN SHORE 02																		
CAMBRIDGE WTR TRMT PL	63.9	44.3	54.1	-.8	73 5+	33 19	324	2	0	0	0	0	2.93	-.37	1 7			7 2 0
DENTON 2 E	64.1	39.5	51.8	-3.1	75 27+	33 21+	391	0	0	0	0	0	2.74	-1.58	1 7			6 2 1
ROYAL OAK 2 SSW	62.7	44.5	53.6	-2.2	74 6+	35 19	334	1	0	0	0	0	2.28	-1.13	1 7			7 1 0
VIENNA																		
--DIVISIONAL DATA-->																		
LOWER SOUTHERN 03																		
LA PLATA 1 W	66.4	42.4	54.4	-1.1	79 5+	28 20	317	5	0	0	2 0	0	2.16	-1.01	1 7			6 1 0
MECHANICSVILLE 1 E	64.5	41.8	53.2	-2.0	78 5+	29 20	354	5	0	0	4 0	0	3.07	-1.32	1 7			6 2 1
OWINGS FERRY LANDING	65.0	41.9	53.5	-2.0	77 6+	29 20	343	0	0	0	2 0	0	3.37	-1.13	1 7			7 4 1
PATUXENT RIVER	60.1	43.0	51.6	-2.5	74 4	35 19	398	0	0	0	0	0	3.00	-1.67	1 7			7 1 1
--DIVISIONAL DATA-->																		
UPPER SOUTHERN 04																		
ANNAPOLIS POLICE BRKS	64.8	42.0	53.4		77 6	33 17	341	1	0	0	0	0	1.95		1 28			3 2 0
BALTIMORE WSO AP	61.4	42.5	52.0	-2.0	77 5+	32 20+	389	4	0	0	2 0	0	2.44	-.91	1 27			4 2 1
BELTSVILLE	62.4	40.1	51.3	-1.4	78 6+	30 14	405	0	0	0	2 0	0	2.83	-1.54	1 28			5 3 0
COLLEGE PARK	63.7	42.5	53.1	-2.3	79 6+	32 14	348	0	0	0	1 0	0	1.96	-1.41	1 8			4 3 0
DALECARLIA RESVR D C	67.0	39.1	53.1	-2.6	79 5+	29 20	357	4	0	0	6 0	0	1.94	-1.66	1 7			4 1 1
GLENN DALE BELL STN	65.3	38.9	52.1	-2.1	79 6	27 20	384	3	0	0	8 0	0	2.11	-1.41	1 7			3 2 0
LAUREL 3 W																		
NATIONAL ARBORETUM D C	64.1	41.7	52.9	-3.3	78 6	32 15	356	0	0	0	1 0	0	3.16	-.21	1 19			5 4 0
UPPER MARLBORO 3 NNW	62.0	40.3	51.2	-2.0	78 5	30 20+	407	0	0	0	2 0	0	2.36	-.96	1 28			4 2 0
--DIVISIONAL DATA-->																		
NORTHERN EASTERN SHORE 05																		
CHESTERTOWN	61.5	42.6	52.1	-2.0	75 5+	35 17	386	3	0	0	0	0	2.47	-.78	1 27			5 2 1
MILLINGTON 1 SE	63.1	41.4	52.3	-.9	75 5+	32 17	377	3	0	0	1 0	0	2.47	-.71	1 7			5 2 0
--DIVISIONAL DATA-->																		
NORTHERN CENTRAL 06																		
ABERDEEN PHILLIPS FLD	63.4	43.0	53.2		75 6+	32 19	351	1	0	0	1 0	0	2.80		1 28			5 2 1
BALTIMORE WSO CI	60.5	44.3	52.4	-4.4	79 5	35 13	376	5	0	0	0	0	2.04	-1.47	1 7			4 2 0
BENSON POLICE BARRACKS	66.2	40.6	53.4	.6	80 6	31 14	342	1	0	0	3 0	0	3.39	-.61	1 28			7 2 1
BOYDS 2 NW	62.6	41.7	52.2		77 4	32 19+	381	4	0	0	3 0	0	2.56		1 7			5 1 1
CATOCTIN MOUNTAIN PARK	59.9	39.1	49.5		75 5	30 20+	457	0	0	0	6 0	0	2.33		1 7			6 1 0
CLARKSVILLE 3 NNE	63.8	38.9	51.4		78 5+	27 17+	404	4	0	0	0	0	2.68		1 7			6 2 0
CONOWINGO DAM	62.2	37.0	49.6	-2.4	77 5	28 17	455	0	0	0	7 0	0	4.07	.25	1 27			9 2 1
DAMASCUS 2 SW	61.4	41.2	51.3		78 6	31 16+	406	4	0	0	4 0	0	2.71		1 7			7 1 1
EMMITSBURG 2 SE	62.2	38.3	50.3		78 6	27 22+	435	3	0	0	8 0	0	3.50		1 7			8 2 1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND  
DELAWARE  
APRIL 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			NO. OF DAYS			
											90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE	
FREDRICK POLICE BRKS	67.4	43.4	55.4		80	4	34	14	266	7	0	0	0	0	2.06		.88	7	.0			5	1	0	
MILLERS 4 NE	59.4	39.6	49.5		75	5	30	17	456	0	0	0	6	0	2.48		.64	7	.0			5	1	0	
ROCKVILLE 1 NE TOWSON	63.0	43.1	53.1	-1.8	77	5	33	14	357	3	0	0	0	0	3.37	.13	1.18	2	.0			6	2	2	
UNIONVILLE	64.3	35.7	50.0	-1.5	79	4	26	20	447	2	0	0	1	0	2.68		.89	7	.0			4	3	0	
WESTMINSTER POLICE BRK	63.6	37.2	50.4	-1.8	78	6	26	14	430	0	0	0	8	0	3.07		.62	7	.0			7	1	1	
WOODSTOCK	63.4	40.6	52.0	-1.9	78	4	31	17	388	2	0	0	4	0	2.73		.89	7	.0			5	2	1	
--DIVISIONAL DATA-->			51.6	-1.6											2.83		.80		.0						
APPALACHIAN MOUNTAIN 07																									
CUMBERLAND 2	65.6	39.6	52.6	-.9	83	5	30	19	368	1	0	0	1	0	3.06	-.30	1.70	7	.0			6	2	1	
FROSTBURG 2	56.1	37.0	46.6		74	7	26	17	547	0	0	0	6	0	3.69		1.59	7	1.2		16	6	2	1	
HAGERSTOWN	62.8	41.6	52.2	-1.4	80	5	33	20	380	3	0	0	0	0	2.07	-1.43	1.26	7	.0			5	1	1	
HANCOCK FRUIT LAB	65.1	36.9	51.0	-.1	81	5	25	20	410	1	0	0	1	0	2.66	-.58	1.46	7	.0			4	1	1	
--DIVISIONAL DATA-->			50.6	-1.7											2.87		.56		.4						
ALLEGHENY PLATEAU 08																									
MC HENRY 2 NW	57.9	35.5	46.7		76	2	23	17	541	0	0	0	1	0	4.01		.92	7	6.5		3	29	7	3	0
OAKLAND 1 SE	60.0	35.1	47.6	-.4	74	6	23	11	516	0	0	0	1	0	3.08	-1.43	.70	7	3.8			8	2	0	
SAVAGE RIVER DAM	59.6	36.3	48.0	-.4	78	6	28	20	505	0	0	0	1	0	2.58	-.90	1.05	7	.0			7	1	1	
--DIVISIONAL DATA-->			47.4	.2											3.22		.97		3.4						
DELAWARE																									
NORTHERN 01																									
MIDDLETOWN 3 E	59.8	41.1	50.5		74	5	33	22	428	0	0	0	0	0	2.96		1.23	8	.0			7	2	1	
NEWARK UNIVERSITY FARM	61.4	37.8	49.6	-3.2	75	5	26	20	453	0	0	0	4	0	3.11	-.39	1.17	2	.0			7	2	1	
WILMINGTON WSO AP	59.6	41.9	50.8	-1.6	74	5	34	22	419	0	0	0	0	0	2.59	-.80	.97	7	.0			4	2	0	
WILMGTN PORTER RESVR	58.9	41.9	50.4	-1.4	74	4	35	22	434	2	0	0	0	0	3.86	-.02	1.38	7	.0			6	3	1	
--DIVISIONAL DATA-->			50.3	-2.4											3.13		.41		.0						
SOUTHERN 02																									
DOVER	62.7	42.7	52.7	-2.0	76	6	33	17	365	2	0	0	0	0	2.63	-.58	.95	7	.0			8	1	0	
GEORGETOWN 5 SW	61.2	40.7	51.0	-2.6	76	3	31	17	412	0	0	0	1	0	3.26	.06	1.05	8	.0			7	2	1	
GREENWOOD 2 NE	61.4	41.5	51.5		74	2	33	19	399	0	0	0	0	0	3.28		1.36	7	.6			6	2	1	
LEWES	59.9	43.1	51.5	-1.6	72	3	35	19	398	2	0	0	0	0	2.61	-.80	1.36	7	.0			5	5	1	
MILFORD 4 SE	61.0	41.9	51.5	-2.9	74	5	32	19	400	0	0	0	1	0	2.63	-.78	1.15	7	.0			5	1	1	
--DIVISIONAL DATA-->			51.6	-2.5											2.88		.43		.0						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION (INCHES)

MARYLAND AND  
DELAWARE  
APRIL 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	3.25				T	.38		.89	1.06	T						T			.14	.53	T				T		*	*	.25	T	T	
CRISFIELD SOMERS COVE	2.86		.02		.74	.30		1.05	.21	.02						.17			.03	.32									.25	T	T	
PRINCESS ANNE	3.51				.80	.05		1.45	.62										.01	.33									.40	T	.02	
SALISBURY	4.19				.52			1.50	.67							.02			.40	.66					T				.25	T	.02	
SALISBURY FAA AP	3.63	T	T		.52			2.10	.17	.01			T			T			.10	.29					T			.17	.25	T	.02	
SNOW HILL 4 N																																
CENTRAL EASTERN SHORE 02	3.41		T		.62	.02		1.17	.80	.01			T	T		T	T		.05	.35						T			.35	.03	.01	
CAMBRIDGE WTR TRMT PL	2.93				.36	.53		.95	.31	.02									.10	.32									.34	.52	.04	.03
DENTON 2 E	2.74				.26			1.00	.36	.03									.25	.25									.44	T	.03	
ROYAL OAK 2 SSH	2.28				.27	.12		.82	.25	.04							T		.10	.23								.01	.44	T	.03	
VIENNA	M																															
LOWER SOUTHERN 03																																
LA PLATA 1 W	2.16				.28	T		.84	.22	.01					T				.19	.22					T				.40	T	T	
MECHANICSVILLE 1 E	3.07				.34			1.32	.52	.03					T				.19	.33							T	.06	.28	T	T	
OWINGS FERRY LANDING	3.37				.28	.55		1.11	.54	.04									.12	.15									.58	T	T	
PATUXENT RIVER	3.00		T	.01	.39		.02	1.67	.10	.03			T			T			.14	.39								.11	.14	T	T	
UPPER SOUTHERN 04																																
ANNAPOLIS POLICE BRKS	1.95				.07			.65	.31	.06						.02	T		.06	.05									.69	.04	T	
BALTIMORE HSO AP	2.44	T			T		.01	.89	.16	.01				T		.03	T		.14					.01				1.19	T	T	T	
BELTSVILLE	2.83				.01			.76	.84	.03						.02				.11	.12					.11			.93	T	.02	
COLLEGE PARK	1.96				.01			.54	.63	.01						T				.12	.15					.05			.60	T		
DALECARLIA RESVR D C	1.94						.01	1.11	.18	.03									.11							.05			.42	.02	.01	
GLENN DALE BELL STN	2.11	T			.05			.91	.22	.06						.03	T		T	.09					.03			T	.70	T	.02	
LAUREL 3 W																																
NATIONAL ARBORETUM D C	3.16				.01			.46	.64							.50				.90					.02				.60	.02	.01	
UPPER MARLBORO 3 NNW	2.36				.07	.03		.38	.77	.03						.02			.38	.77					.06				.86	.04	T	
NORTHERN EASTERN SHORE 05																																
CHESTERTOWN	2.47	T			.04		T	.73	.13	T						.11	T		.25	T				.01				1.08	.06	.06	T	
MILLINGTON 1 SE	2.47				.08			.92	.25	.02						.03	.07		.03	.26						.02			.59	T	.20	
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD	2.80				.11			.68	.18							T	*	*	.11	.21				*	*	.16			1.35			
BALTIMORE HSO CI	2.04				.03		.06	.82	.10							.03			.30									.70				
BENSON POLICE BARRACKS	3.39	.05		T	.05			.95	.17	.04							.14		.08		.27	T			.25				1.25	.02	.12	
BOYDS 2 NW	2.56							1.49	.36								T		.35						.10				.26			
BRIGHTON DAM	M																															
CATOCTIN MOUNTAIN PARK	2.33	.04	.03	.02	.09			.71	.15	.03								.31	.03					.07	.22			.28	.30	.05		
CLARKSVILLE 3 NNE	2.68				.10			.97	.19	.04				T				.20	.26						.07			.74	.01	.02		
CONOWINGO DAM	4.07	.12			.09		.15	.85	.10	.04								.27						.28				1.94	.10			
DAMASCUS 2 SW	2.71	T			.09		T	1.04	.19	.02						.13	T		.48						.21			.33	.28	.05	.01	
EMMITSBURG 2 SE	3.50	.10			.10			1.10	.43									.20						.05	.23			.90	.38	.01		
FREDRICK POLICE BRKS																																
FREDERICK 3 E	2.06	.10			.05			.88	.08	.01								.22	.05						.24			.34	.03	.06		
FREDERICK 3 E	2.77	.11			.05			.52	.88	.10								.32	.34						.35			.39	T	.03		
MILLERS 4 NE	2.48	.01			.07			.64	.06	.03						T	.09								.01	.25		.35	.47	.09	.09	
POTOMAC FILTER PLANT	M																															
ROCKVILLE 1 NE	3.37				.35	T		1.13	.16	T						.05	T		.40						.10			1.18	T	T		
TOWSON																																
UNIONVILLE	2.68	.01			.05			.89										.38								.55						
WESTMINSTER POLICE BRK	3.07	.05			.05			.34	.31	.03						T		.05	.19							.31	T		1.51	.02	.15	
HOODSTOCK	2.73	.04			.08			.42	.25	.02							.05		.53	.02						.13				.02	.06	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION (INCHES)

MARYLAND AND  
DELAWARE  
APRIL 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	3.06	T			.20			1.70	.60	T										.10					.28					.10	.05	.03	
EDGE MONT	2.29	.01		.03	.08		.52	.68		.11									.42					.23					.17	.02	.02		
FROSTBURG 2	3.69	.02		T	.32	.02	1.59	.60		T					T	.06	T	T	.05	T				.44					.02	.26	.31		
HAGERSTOWN	2.07				.05		1.26	.15											.24						.19				T				
HANCOCK FRUIT LAB	2.66	.02	T	T	.06		1.46	.36											.24					.47	T			.16	.02	T			
ALLEGHENY PLATEAU 08																																	
MC HENRY 2 NW	4.01	T			.33		.92	.45							T	.05	T	.30	.33						.63				.05	.88	.07		
MERRILL	3.96				.40		1.70	.43								.02									.40	.08			.01	.55	.45		
OAKLAND 1 SE	3.08	.03		T	.23		.70	.25						T	T	.02		.56	T					.40	.08		T	T	.16	.45	.20		
SAVAGE RIVER DAM	2.58	.03			.18		1.05	.47							T	T	T	T	.21					.22		.01			.20	.21			
DELAWARE NORTHERN 01																																	
MIDDLETOWN 3 E	2.96	.12			.08			1.23									.10			.24				.12						.90		.17	
NEWARK UNIVERSITY FARM	3.11	.05			.06		.85	.14	.01							.03	.15	.18	.06						.30				1.17	.01	.10		
WILMINGTON WSO AP	2.59	.04			.03	.02	.91	.01								.09	.02	.18						.24			.97		.03	.05	T		
WILMINGTON PORTER RESVR	3.86				.09		1.38	.04								.19		.28						.50	T		.97		.34	.07			
SOUTHERN DOVER	2.63	.03			.18		.95	.48	.02							.11	.02	.02	.10	.12	.03				.02				.34	.03	.18		
GEORGETOWN 5 SW	3.26				.05	.29	.86	1.05	.02	.01										.11	.29							.43	.04	.11			
GREENHOOD 2 NE	3.28				.36		1.36	.46	T			T				.04		.14	.23										.64	.05			
LEWES	2.61				.31		1.36	.24	T							.01		.07	.17						T				.38	.02			
MILFORD 4 SE	2.63				.36		1.15	.31	T							.06		.07	.16										.46	T	.06		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
APRIL 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 OBS	65 48 23	62 45	76 56 46	76 60 51	79 63 50	72 48		52 42 32	52 40	62 39	58 41	46 40	45 37	48 41	58 39	55 40	70 48	78 46	60 33	61 42	76 45	65 78	68 47	67 81	69 ***	72 ***	75 46	67 46	67 45				64.2	
CRISFIELD SOMERS COVE	17	MAX OBS MIN OBS	66 49 **	71 49	70 50	70 60	70 55	73 57	60 52	60 44	57 41	58 44	58 40	48 40	50 37	66 42	68 42	61 42	62 53	62 36	55 40	65 48	62 46	62 51	64 53	68 48	66 54	68 47	66 48	66 54	57 47	62 47			62.5	
PRINCESS ANNE	17	MAX MIN OBS	67 49	75 48	72 48	71 61	73 51	73 51	59 48	54 43	60 39	60 39	64 35	61 33	48 40	53 40	68 38	65 38	68 38	69 38	65 36	66 44	66 44	61 42	63 42	68 50	63 42	69 34	73 36	69 52	59 36	63 43			64.5	
SALISBURY	17	MAX MIN OBS	70 47	72 47	72 48	70 61	73 51	71 51	55 48	55 43	60 40	68 38	64 39	57 40	49 41	53 38	67 40	67 39	64 38	64 38	64 37	58 35	66 44	63 44	57 42	70 49	64 42	67 44	73 39	68 51	56 44	64 46			64.0	
SALISBURY FAA AP	MID	MAX MIN	70 48	72 48	73 49	69 61	73 51	67 48	55 45	59 44	59 40	61 39	63 39	48 39	51 38	69 40	50 38	65 35	65 50	50 36	59 37	65 33	65 33	60 37	64 34	67 48	63 44	68 40	72 42	62 42	57 41	63 46			62.0	
SNOW HILL 4 N	18	MAX MIN	66 48	70 48	73 49	68 60	74 50	74 50	55 46	52 44	59 40	61 38	61 37	54 41	45 37	51 36	68 42	65 38	66 31	66 50	66 36	59 34	67 46	61 45	64 38	70 51	65 37	69 36	71 39	69 52	58 40	64 45			63.7	
CENTRAL EASTERN SHORE 02																																				
CAMBRIDGE WTR TRMT PL	16	MAX MIN	62 48	67 48	71 50	73 60	73 52	72 54	63 47	54 44	57 40	59 43	61 43	61 41	52 39	62 40	65 40	68 34	68 51	63 33	60 36	64 45	61 44	60 44	65 49	64 44	68 42	72 42	70 50	57 41	63 46			63.9		
DENTON 2 E	17	MAX MIN	66 43	72 42	70 49	74 51	75 52	75 47	59 45	52 34	60 39	61 36	63 37	53 37	52 35	65 33	63 38	67 37	65 33	60 33	61 33	63 33	64 33	65 35	68 37	65 35	75 39	68 42	69 41	64 45	59 41	64 45			64.1	
ROYAL OAK 2 SSW	18	MAX MIN	63 48	70 48	70 51	72 60	74 49	74 53	53 46	53 44	60 40	60 43	62 41	54 41	54 37	64 36	63 42	67 40	62 52	60 35	60 39	63 48	61 43	60 42	64 49	66 42	66 42	71 45	62 45	57 45	63 48			62.7		
VIENNA	18	MAX MIN																																		M
LOWER SOUTHERN 03																																				
LA PLATA 1 W	18	MAX MIN	67 48	76 48	75 52	79 61	79 46	76 51	60 44	52 44	61 39	66 37	67 36	64 40	57 37	60 30	71 40	64 37	72 34	69 53	53 34	64 28	67 45	64 46	65 43	66 46	66 41	70 38	77 44	65 42	56 39	63 49			66.4	
MECHANICSVILLE 1 E	19	MAX MIN	65 49	68 49	76 52	78 62	78 45	75 49	60 47	53 45	61 41	64 36	62 32	57 39	54 30	63 38	58 32	70 34	67 54	67 33	63 29	66 46	63 46	65 41	68 45	66 35	69 34	76 38	61 44	56 41	64 49			64.5		
OWINGS FERRY LANDING	17	MAX MIN	63 48	69 49	74 51	77 62	77 47	77 51	59 46	53 44	60 40	64 35	63 38	61 38	55 37	56 33	62 40	69 33	69 32	61 35	62 29	64 43	63 44	64 41	65 45	65 38	68 36	76 40	72 44	56 38	64 48			65.0		
PATUXENT RIVER	MID	MAX MIN	58 45	67 48	71 49	74 55	70 50	65 50	55 43	52 44	59 39	58 40	58 40	46 40	51 37	48 38	59 44	51 37	68 36	64 48	48 35	61 36	65 45	60 45			62 41	63 41	66 44	61 45	59 42	63 48			60.1	
UPPER SOUTHERN 04																																				
ANNAPOLIS POLICE BRKS	17	MAX MIN	64 42	66 46	68 46	73 55	75 42	77 54	60 42	55 44	62 41	64 37	65 36	64 42	51 37	55 38	62 40	62 36	71 33	70 53	62 39	64 35	65 48	63 43	61 40	65 49	69 42	70 35	71 41	70 41	55 42	64 41			64.8	
BALTIMORE WSO AP	MID	MAX MIN	60 48	63 50	72 51	77 61	77 48	69 47	49 45	54 41	61 41	62 35	63 37	50 42	54 36	60 44	49 36	68 47	63 47	50 35	61 32	60 44	62 36	62 44	60 49	66 39	68 38	73 43	59 41	54 47	63 47			61.4		
BELTSVILLE	08	MAX OBS MIN OBS	68 48 **	66 48 **	68 47 **	73 49 **	78 46 **	78 46 **	72 46 **	48 44 **	52 40 **	59 33	62 33	64 42	49 35	55 30	56 38	65 34	49 32	69 46	62 34	50 33	62 39	60 38	63 44	65 38	60 38	65 34	69 38	74 41	58 42	54 46			62.4	
COLLEGE PARK	09	MAX MIN	69 50	66 49	70 51	75 52	79 46	79 50	72 46	49 45	52 41	60 36	63 36	66 44	49 36	57 32	58 40	66 37	53 36	71 53	64 37	50 35	64 41	62 44	64 42	65 42	61 43	66 37	71 41	77 42	59 43	54 47			63.7	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
APRIL 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		
DALECARLIA RESVR D C	17	MAX MIN OBS	68 48	72 47	75 48	79 59	79 44	78 52	67 32	52 42	59 36	64 32	65 33	65 40	63 41	58 30	67 38	64 30	71 32	70 44	59 33	64 29	64 39	64 42	65 39	65 43	65 35	71 34	78 40	75 37	59 40	64 34	67.0 39.1		
GLENN DALE BELL STN	16	MAX MIN	69 47	63 44	68 46	77 59	77 41	79 47	70 44	53 43	60 40	64 30	65 29	66 39	54 34	57 29	64 39	62 29	66 30	69 54	63 32	62 27	63 39	63 40	64 36	64 46	65 35	70 31	75 35	71 39	57 40	60 44	65.3 38.9		
LAUREL 3 W		MID MAX MIN																																M M	
NATIONAL ARBORETUM D C	08	MAX MIN	70 50	67 48	71 49	76 50	77 46	78 47	75 47	48 44	54 41	61 35	65 36	66 39	50 37	54 38	59 32	67 38	51 37	70 37	63 36	50 36	64 39	63 45	64 42	67 45	63 45	66 36	71 42	77 45	61 43	56 45	64.1 41.7		
UPPER MARLBORO 3 NNW	08	MAX MIN	66 48	65 48	66 48	74 51	78 45	77 47	71 47	50 44	52 40	59 34	62 35	63 40	48 37	53 30	55 35	61 35	49 33	70 42	63 38	45 30	63 38	61 44	63 38	64 46	62 37	65 33	69 37	75 43	58 41	54 46	62.0 40.3		
NORTHERN EASTERN SHORE	05																																		
CHESTERTOWN	23	MAX MIN	62 46	66 48	70 50	75 61	75 49	64 46	47 44	52 44	59 39	61 39	64 38	51 40	55 36	57 36	63 40	48 37	68 35	63 47	48 36	60 38	61 46	62 46	60 46	62 46	65 43	69 39	74 41	60 47	58 44	65 46	61.5 42.6		
MILLINGTON 1 SE	18	MAX MIN	66 45	65 47	70 49	73 62	75 44	74 48	49 43	52 44	58 40	62 37	64 37	61 38	54 35	53 36	61 39	61 37	67 32	66 51	59 35	60 37	61 46	61 33	60 34	62 46	65 42	68 35	74 37	71 46	57 43	63 45	63.1 41.4		
NORTHERN CENTRAL	06																																		
ABERDEEN PHILLIPS FLD	16	MAX MIN	68 48			72 60	75 50	75 52	55 43	56 45		62 41	61 40	54 35	54 37	59 40		68 53	67 32	58 36	57 36	59 43	61 37				65 40	66 45	72 42	71 43	59 41			63.4 43.0	
BALTIMORE WSO CI		MID MAX MIN																																	
BENSON POLICE BARRACKS	17	MAX MIN	74 46	66 47	66 49	76 56	79 47	80 50	56 41	55 42	62 37	65 39	70 39	70 38	62 32	63 31	65 39	65 33	71 32	71 47	60 33	62 32	62 45	64 34	65 38	59 46	67 40	70 38	75 41	68 42	57 39	62 43	66.2 40.6		
BOYDS 2 NW	18	MAX MIN	66 48	69 48	72 48	77 61	76 49	73 52	59 43	50 43	56 39	62 38	60 37	60 41	55 33	55 32	66 40	61 37	68 32	66 47	52 32	60 42	58 44	60 34	64 43	60 45	63 39	68 43	73 45	57 39	53 41	59 44	62.6 41.7		
CATOCTIN MOUNTAIN PARK	17	MAX MIN	62 47	65 47	63 47	74 56	75 49	74 48	54 39	47 40	54 35	60 33	60 34	60 36	53 30	52 31	58 35	58 30	66 35	65 45	50 32	57 30	55 45	60 31	63 42	60 43	61 36	66 42	67 40	58 39	45 35	56 40	59.9 39.1		
CLARKSVILLE 3 NNE	17	MAX MIN	66 49	65 47	69 50	78 59	78 39	76 44	54 44	52 44	59 40	62 37	63 30	63 42	55 34	55 27	65 42	59 34	69 27	62 46	60 31	61 43	61 29	61 33	62 44	64 33	65 39	70 34	73 38	71 38	54 34	62 45	63.8 38.9		
CONOWINGO DAM		MID MAX MIN																																	
DAMASCUS 2 SW	19	MAX MIN	62 48	68 48	70 49	77 60	76 49	78 47	47 42	50 43	58 38	62 37	62 36	58 40	55 32	54 31	65 40	60 31	67 36	59 46	53 32	59 33	57 46	61 35	63 43	58 46	64 37	69 43	72 45	56 41	51 38	61 43	61.4 41.2		
EMMITSBURG 2 SE	17	MAX MIN	64 50	67 48	65 50	76 59	77 39	78 45	57 42	57 42	58 39	62 32	62 35	60 38	54 31	54 27	62 39	60 31	67 34	66 44	53 31	59 28	59 40	61 27	62 37	61 45	62 35	67 30	71 39	50 39	59 44	59 44	62.2 38.3		
FREDRICK POLICE BRKS	17	MAX MIN	73 52	68 50	70 51	80 59	77 51	78 51	43 43	43 41	41 40	39 40	44 39	44 35	34 35	41 41		65 36	70 37	68 50	55 36	61 46	61 46	63 37	65 43	65 47	64 42	69 41	74 46	74 45	55 41	60 45	67.4 43.4		
MILLERS 4 NE	18	MAX MIN	60 47	65 45	64 49	74 56	75 46	74 51	51 41	48 42	55 36	58 38	60 37	59 36	54 31	53 31	59 39	54 31	65 30	64 46	50 31	57 32	55 44	59 33	58 39	56 44	61 38	66 35	68 42	54 40	48 37	58 42	59.4 39.6		
ROCKVILLE 1 NE	17	MAX OBS MIN	67 51	67 49	71 51	76 60	77 51	70 46	72 44	51 44	58 41	63 40	63 39	61 41	56 36	55 33	63 42	65 36	55 38	61 45	52 36	60 38	58 45	60 36	62 42	56 47	63 41	68 38	73 47	75 45	53 41	60 46	63.0 43.1		
TOWSON		18 MAX MIN																																M M	
UNIONVILLE	18	MAX MIN OBS	73 39	75 48	70 46	79 55	78 46	75 46	65 39	52 38	58 38	62 31	61 29	62 41	56 32	56 28	63 31	63 30	67 26	62 42	54 30	58 26	61 38	62 28	63 34	63 37	64 31	68 30	72 34	61 33	57 32	68 33	64.3 35.7		
WESTMINSTER POLICE BRK	17	MAX OBS MIN OBS	71 42	66 44	67 45	76 55	78 50	78 49	65 35	51 38	57 32	60 31	62 32	62 33	55 29	54 26	63 37	65 30	66 33	70 49	59 31	58 31	61 38	60 33	62 39	63 44	64 35	69 36	74 33	61 37	52 33	59 35	63.6 37.2		

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
APRIL 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		
WOODSTOCK	18	MAX MIN	65 47	65 48	67 50	78 57	77 45	75 52	52 43	51 43	59 39	62 38	64 36	62 41	57 33	55 31	65 42	58 34	69 31	66 52	54 32	61 33	60 44	63 32	62 38	58 47	65 37	71 34	75 39	68 40	55 37	63 43	63.4 40.6		
APPALACHIAN MOUNTAIN	07																																		
CUMBERLAND 2	18	MAX MIN	73 49	74 52	73 54	77 47	83 48	81 44	66 44	55 41	55 37	69 34	67 35	64 38	62 33	64 33	64 34	47 35	71 39	67 34	53 30	61 33	58 37	64 40	72 49	66 40	65 35	73 37	69 39	63 40	54 42	57 35	65.6 39.6		
FROSTBURG 2	07	MAX MIN	62 46	66 47	65 50	65 47	67 49	74 49	48 38	46 38	46 34	47 34	59 35	59 35	59 35	55 33	55 33	38 27	54 26	63 37	57 33	44 29	52 29	49 31	56 32	68 44	44 35	56 37	66 41	66 35	66 33	46 35	56.1 37.0		
HAGERSTOWN	18	MAX OBS MIN OBS	65 52	71 50	72 51	78 58	80 48	72 49	60 42	53 46	58 38	63 38	63 35	57 41	57 35	61 36	46 34	70 34	65 45	54 34	62 33	56 45	65 34	65 42	61 45	64 37	70 38	70 48	60 42	51 39	59 44	62.8 41.6			
HANCOCK FRUIT LAB	16	MAX MIN	68 47	69 51	68 48	78 54	81 39	79 41	68 42	55 45	56 40	67 30	66 27	65 30	58 36	60 27	67 32	71 28	70 31	55 30	61 25	59 39	65 48	64 37	60 34	64 33	73 29	72 35	64 36	53 37	53 37	65.1 36.9			
ALLEGHENY PLATEAU	08																																		
MC HENRY 2 NW	08	MAX MIN	69 48	72 48	72 52	70 52	70 42	74 42	66 37	47 37	42 31	49 31	62 33	65 35	40 35	59 36	61 33	56 23	38 27	63 36	52 35	47 27	54 27	47 31	58 35	76 46	50 36	58 37	70 40	66 32	39 31	43 32	57.9 35.5		
OAKLAND 1 SE	17	MAX MIN	68 48	69 41	70 46	67 52	74 35	74 39	62 39	48 36	45 33	61 26	62 23	61 36	56 35	62 27	62 27	54 25	62 34	61 40	45 31	52 29	52 37	54 35	72 46	69 37	56 36	66 27	67 31	58 32	45 37	60.0 35.1			
SAVAGE RIVER DAM	08	MAX MIN	66 40	70 43	68 48	77 44	69 41	78 47	67 41	51 41	49 38	53 34	65 29	63 30	44 38	58 30	57 32	43 30	66 41	57 30	53 34	55 28	60 35	69 30	69 45	47 36	59 30	72 33	69 36	44 36	51 39	59.6 36.3			
DELAWARE																																			
NORTHERN	01																																		
MIDDLETOWN 3 E	17	MAX MIN	56 44	63 47	62 49	74 56	74 47	66 45	45 43	52 43	58 41	61 36	62 35	54 38	54 36	52 37	58 39	54 36	67 34	65 48	48 35	57 35	59 43	60 33	56 35	60 47	65 39	64 41	72 38	60 47	56 40	61 45	59.8 41.1		
NEWARK UNIVERSITY FARM	17	MAX MIN OBS	66 45	64 47	63 49	75 54	75 52	65 44	50 39	52 38	59 32	62 33	64 39	62 39	52 26	54 35	60 38	57 35	67 29	66 45	52 33	59 26	59 39	60 33	60 35	59 36	64 34	65 35	71 37	61 38	57 33	61 37	61.4 37.8		
WILMINGTON WSO AP	MID	MAX MIN	58 47	64 49	61 50	73 57	74 49	64 44	47 43	53 43	61 42	62 35	64 39	55 41	52 37	51 36	58 41	49 36	66 37	64 43	48 37	58 36	59 41	60 34	55 45	60 37	63 45	62 45	70 46	59 43	57 41	61 45	59.6 41.9		
WILMGTON PORTER RESVR	MID	MAX MIN	59 47	64 47	62 48	74 60	73 51	64 43	60 42	51 42	60 40	63 40	53 41	50 39	51 36	58 37	47 39	65 36	63 45	47 35	58 35	58 43	60 35	54 39	58 46	62 40	64 44	70 44	58 43	56 41	60 44	58.9 41.9			
SOUTHERN	02																																		
DOVER	17	MAX MIN	61 42	66 45	70 52	73 55	75 59	76 46	49 37	53 42	62 38	64 44	63 38	61 39	53 36	53 37	62 42	58 33	67 33	66 51	55 37	63 34	63 45	60 42	65 50	67 54	63 37	63 44	70 44	64 50	63 43	64 41	62.7 42.7		
GEORGETOWN 5 SW	08	MAX MIN	59 44	71 46	76 46	71 50	71 50	73 48	63 46	50 43	53 38	58 38	61 36	62 40	47 39	47 39	50 38	68 36	50 31	65 39	63 44	46 33	59 38	63 38	63 35	62 48	66 37	64 36	68 37	72 49	60 38	56 41	61.2 40.7		
GREENWOOD 2 NE	18	MAX MIN	66 43	61 46	71 48	71 62	74 51	65 47	48 44	52 44	59 40	62 37	64 36	47 40	49 37	53 37	65 37	49 37	66 37	65 43	52 33	59 34	62 34	61 37	62 35	64 47	64 40	70 37	74 39	64 49	63 41	60 47	61.4 41.5		
LEWES	17	MAX MIN	54 44	53 44	72 47	71 60	70 55	69 46	48 44	51 43	57 42	57 39	58 45	53 42	45 40	47 39	57 40	54 36	66 36	67 52	67 35	58 36	63 43	59 39	59 48	65 42	64 41	66 46	68 49	63 41	56 44	59 44	59.9 43.1		
MILFORD 4 SE	17	MAX MIN OBS	53 43	54 46	71 48	70 60	74 53	70 45	47 44	54 43	59 41	61 37	61 38	51 42	51 39	51 37	48 37	58 36	54 35	67 50	62 32	63 36	63 40	61 37	61 35	66 47	65 41	68 36	73 41	67 49	56 42	62 45	61.0 41.9		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

MARYLAND AND  
DELAWARE  
APRIL 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	-	34	-	106	29	38	114	84	08	06	51	50	68	51	56	62	81	72	69	44	59	16	46	53	34	66	35	70	39	46		
	EVAP	-	*	*	31	12	20	22	1	5	20	20	18	6	16	14	23	13	23	3	6	21	29	24	12	22	23	22	25	21	11		
	MAX	75	72	-	-	81	83	75	48	50	68	71	75	51	67	66	66	74	74	61	53	71	68	75	64	73	74	75	72	65	56		
	MIN	53	48	-	-	54	53	47	44	42	52	43	44	38	38	40	40	39	40	41	39	39	43	43	43	40	42	46	48	42	44		
UPPER MARLBORO 3 NNW	WIND	12	3	5	17	3	4	54	64	20	20	12	5	34	39	13	29	32	22	20	5	10	49	8	20	33	13	3	20	15	16		
	EVAP	14	9	23	8	3	20	16	-	3	17	17	18	6	16	14	18	10	22	6	6	16	27	17	14	20	18	19	23	17	5		
	MAX	66	56	78	70	79	82	76	48	50	68	72	74	50	64	68	74	56	74	60	50	68	70	74	64	70	74	72	76	66	56		
	MIN	50	52	50	54	54	54	48	44	42	40	42	42	40	38	40	40	38	40	46	38	36	46	44	50	44	44	46	48	44	44		
ALLEGHENY PLATEAU 08																																	
SAVAGE RIVER DAM	WIND	-	52	30	11	36	33	20	14	96	43	21	21	26	11	13	61	60	43	38	59	55	71	5	27	68	38	10	9	94	93		
	EVAP	-	10	4	5	27	21	-	-	29	8	22	12	12	7	19	4	8	22	19	2	31	22	11	*	17	25	18	14	-	25		
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DELAWARE																																	
NORTHERN																																	
NEWARK UNIVERSITY FARM 01	WIND	40	40	49	34	58	76	211	70	92	63	34	107	102	58	24	93	66	35	26	88	71	65	24	70	81	27	32	47	80	68		
	EVAP	-	7	5	12	13	30	0	36	6	-	30	11	12	20	11	21	8	10	15	4	13	16	14	23	7	8	20	-	7	21		
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SOUTHERN																																	
GEORGETOWN 5 SW 02	WIND	-	42	83	55	90	69	149	208	63	45	87	74	52	75	62	82	29	55	30	59	23	33	81	62	33	70	56	27	82	109		
	EVAP	-	10	8	13	14	24	28	-	-	6	4	19	9	27	9	7	24	18	22	-	21	41	14	18	15	21	35	13	20	27		
	MAX	66	70	73	70	72	78	71	51	53	62	68	69	49	55	59	57	55	70	61	47	64	70	69	70	72	73	73	71	66	64		
	MIN	50	50	51	52	55	53	49	44	40	40	42	43	39	40	39	42	36	38	43	37	38	43	42	47	41	43	47	48	42	44		

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

# SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND  
DELAWARE  
APRIL 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	30		
MARYLAND																																	
SOUTHERN EASTERN SHORE 01																																	
SALISBURY FAA AP	SNOWFALL																																
	SN ON GND																																
SNOW HILL 4 N	SNOWFALL																																
	SN ON GND																																
CENTRAL EASTERN SHORE 02																																	
CAMBRIDGE WTR TRMT PL	SNOWFALL																																
	SN ON GND																																
ROYAL OAK 2 SSW	SNOWFALL																																
	SN ON GND																																
LOWER SOUTHERN LA PLATA 1 W 03	SNOWFALL																																
	SN ON GND																																
UPPER SOUTHERN BALTIMORE WSO AP 04	RSNOWFALL																																
	SN ON GND																																
	WTR EQUIV																																
NORTHERN CENTRAL DAMASCUS 2 SW 06	SNOWFALL																																
	SN ON GND																																
MILLERS 4 NE	SNOWFALL																																
	SN ON GND																																
ROCKVILLE 1 NE	SNOWFALL																																
	SN ON GND																																
APPALACHIAN MOUNTAIN FROSTBURG 2 07	SNOWFALL																																
	SN ON GND																																
ALLEGHENY PLATEAU MC HENRY 2 NW 08	SNOWFALL																																
	SN ON GND																																
OAKLAND 1 SE	SNOWFALL																																
	SN ON GND																																
SAVAGE RIVER DAM	SNOWFALL																																
	SN ON GND																																
DELAWARE																																	
NORTHERN WILMINGTON WSO AP 01	RSNOWFALL																																
	SN ON GND																																
	WTR EQUIV																																

SNOWFALL: INCLUDES SNOW AND ICE. VALUES FOR NWS STATIONS (J INDEX NOTE) ARE MID-MID (LST).  
 SNOW ON GROUND: INCLUDES SNOW, SLEET, ICE AND HAIL. VALUES FOR NWS STATIONS (J INDEX NOTE) ARE OBSERVED AT 0000 UTC (GMT).  
 WATER EQUIVALENT: GIVEN FOR NWS STATIONS (J INDEX NOTE) ONLY, WHEN SNOW DEPTH IS 2 INCHES OR MORE.  
 SEE REFERENCE NOTES FOLLOWING STATION INDEX.

# STATION INDEX

MARYLAND AND  
DELAWARE  
APRIL 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	013304		ANNE ARUNDEL	38 59	76 30W	25	17	17		H H	ANNAPOLIS POLICE BRKS	
ASSATEAGUE ISLAND NATL	033301	SE	WORCESTER	38 14	75 8W		7	07		H H	NATIONAL PARK SERVICE	
BALTIMORE WSO AP	044604	R	ANNE ARUNDEL	39 11	76 40W	196	MID	MID		C H J	NATL WEATHER SERVICE	
BALTIMORE WSO CI #	047006	R	BALTO CITY	39 17	76 37W	91	MID	MID		C C	OCMI COMMANDING OFFICER	
BELTSVILLE	070004		PRN GEORGES	39 2	76 53W	120	08	08		C H	U S DEPT OF AGRICULTURE	
BENSON POLICE BARRACKS	073006		HARFORD	39 30	76 23W	365	17	17		C 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		C H	WASTEWATER TRMT PLANT	
CATOCTIN MOUNTAIN PARK	153006		FREDERICK	39 39	77 29W	1610	17	17		C H	CATOCTIN MOUNTAIN PARK	
CHESTERTOWN	175505		KENT	39 13	76 44W	40	23	23		C H	THOMAS W ELIASON JR	
CLARKSVILLE 3 NNE	186506		HOWARD	39 15	76 56W	365	17	17		C H	UNIVERSITY OF MARYLAND	
COLLEGE PARK	199904		PRN GEORGES	38 59	76 57W	90	09	09		C H	UNIVERSITY OF MARYLAND	
CONOWINGO DAM	206606		HARFORD	39 39	76 10W	40	MID	MID		C H	SUSQUEHANNA ELECTRIC CO	
CRISFIELD SOMERS COVE	221501		SOMERSET	37 59	75 52W	8	17	17			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	
EDGEMONT	277007		WASHINGTON	39 40	77 33W	905		07			JOHN W HARNE	
EMMITSBURG 2 SE	290606		FREDERICK	39 41	77 18W	416	17	17		H	MRS LUCILLE K BEALE	
FREDRICK POLICE BRKS	334406		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 H	SHARPSBURG RESEARCH C	
LA PLATA 1 W	508003		CHARLES	38 32	77 0W	140	18	18		C 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 H	JOSEPH F JOHENNING	
MECHANICSVILLE 1 E	586503		ST MARYS	38 27	76 41W	100	19	19			SANDORA 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 H	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		OBC H	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		OBC H	TOBACCO EXP FARM	
VIENNA	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  
APRIL 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	0002	KENT	39 9	75 31W	30	17	17		H	STATE DIV OF HIGHWAYS
GEORGETOWN 5 SW	3570	0002	SUSSEX	38 38	75 27W	45	08	08	08	C	UNIV OF DEL SUBSTATION
GREENWOOD 2 NE	3595	0002	SUSSEX	38 50	75 35W	45	18	18			DANIEL M SWARTZENTRUBER
LEWES	5320	0002	SUSSEX	38 46	75 8W	15	17	17		H	BOARD OF PUBLIC WORKS
MIDDLETOWN 3 E	5852	0002	NEW CASTLE	39 27	75 40W	55	17	17		H	DAVID S NEYHARD
MILFORD 4 SE	5915	0002	SUSSEX	38 54	75 28W	30	17	17		H	DAVID S SCHLOTT
NEWARK UNIVERSITY FARM	6410	0001	NEW CASTLE	39 40	75 44W	90	17	17	17	C	UNIV OF DELAWARE
WILMINGTON WSO AP	9595	0001	NEW CASTLE	39 40	75 36W	79	MID	MID		C	NATL WEATHER SERVICE
WILMGTN PORTER RESVR	9605	0001	NEW CASTLE	39 46	75 32W	274	MID	MID		H	WATER DEPARTMENT

SEE REFERENCE NOTES FOLLOWING STATION INDEX  
13

# REFERENCE NOTES

MARYLAND AND  
DELAWARE  
APRIL 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.

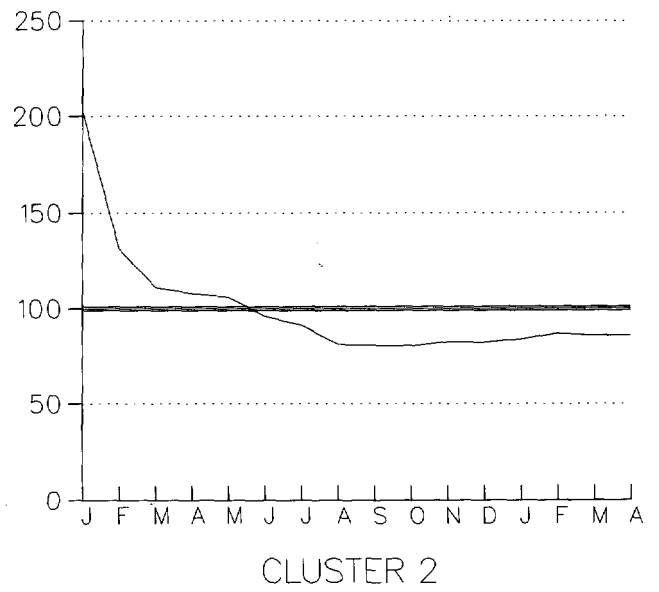
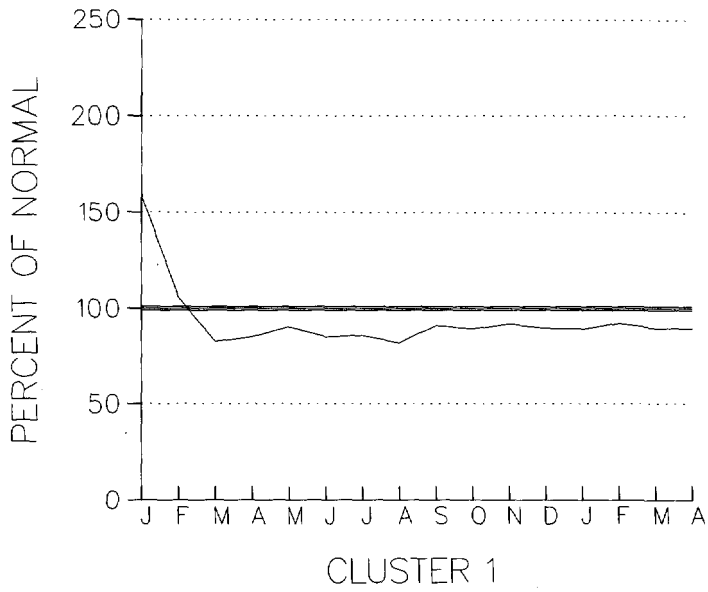
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NATIONAL CLIMATIC DATA CENTER  
FEDERAL BUILDING  
ASHEVILLE, NC 28801-2696

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

CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
 FOR THE LAST 16 MONTHS  
 ENDING APRIL 1988  
 DELAWARE

CLUSTER 1 - DIVISION(S):  
 NORTHERN 01

CLUSTER 2 - DIVISION(S):  
 SOUTHERN 02



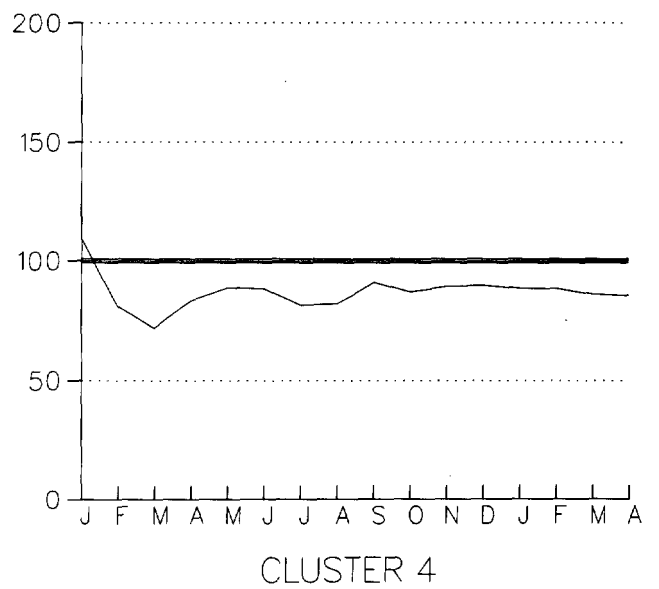
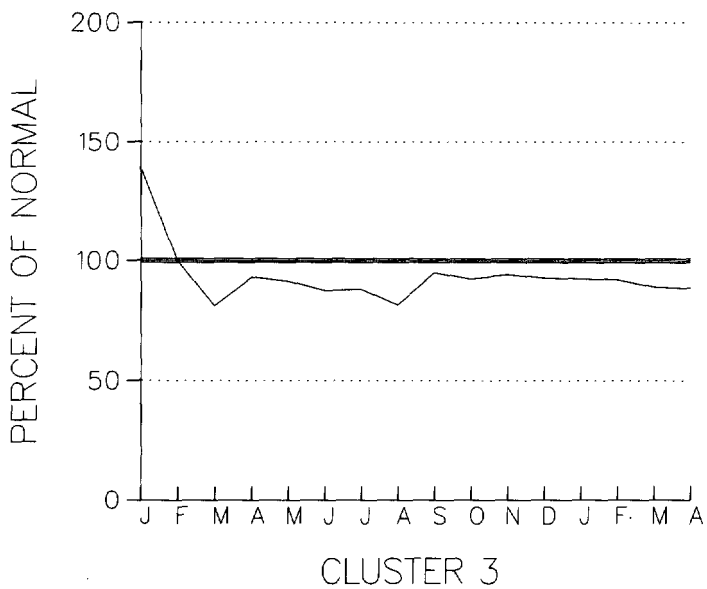
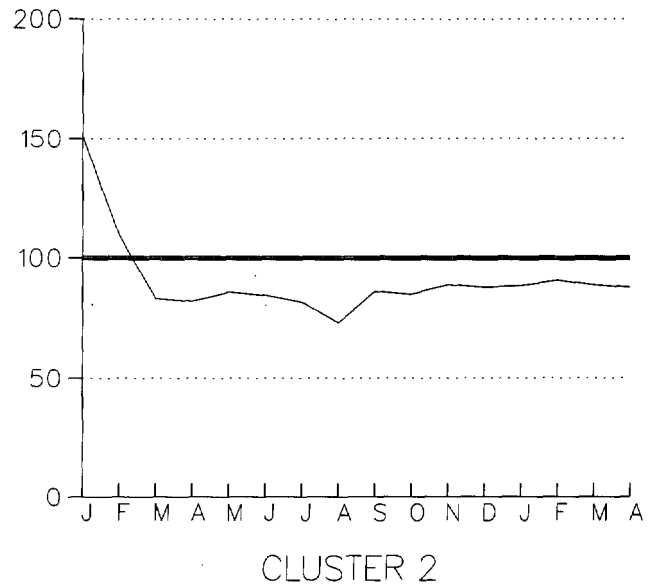
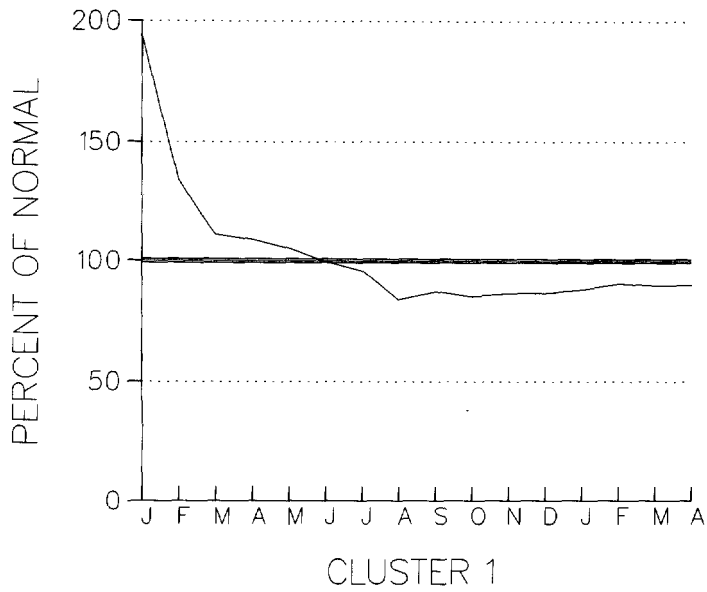
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
FOR THE LAST 16 MONTHS  
ENDING APRIL 1988  
MARYLAND

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





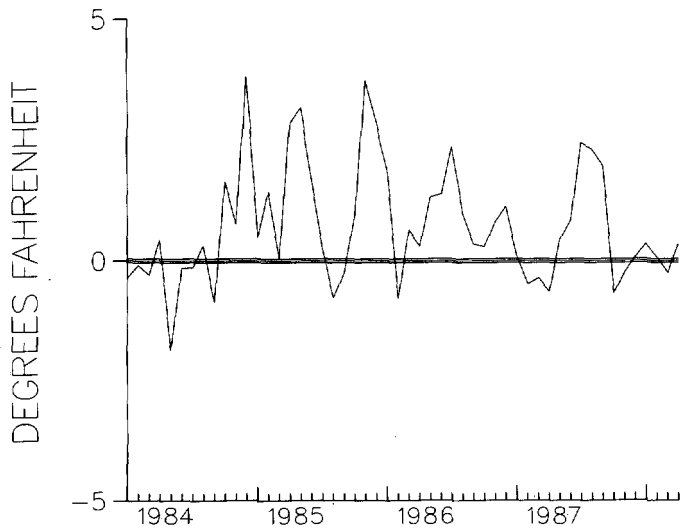
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)  
 THREE MONTH RUNNING MEAN  
 FOR THE 52 MONTHS ENDING WITH APRIL 1988 DATA  
 MARYLAND

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

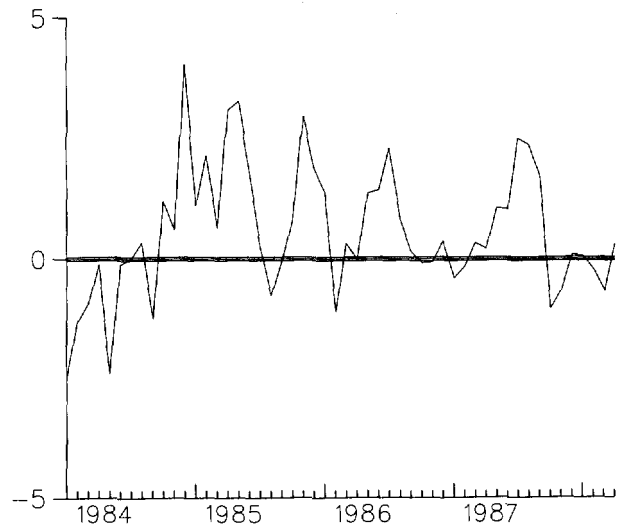
CLUSTER 2 - DIVISION(S):  
 UPPER SOUTHERN 04  
 NORTHERN EASTERN SHORE 05

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

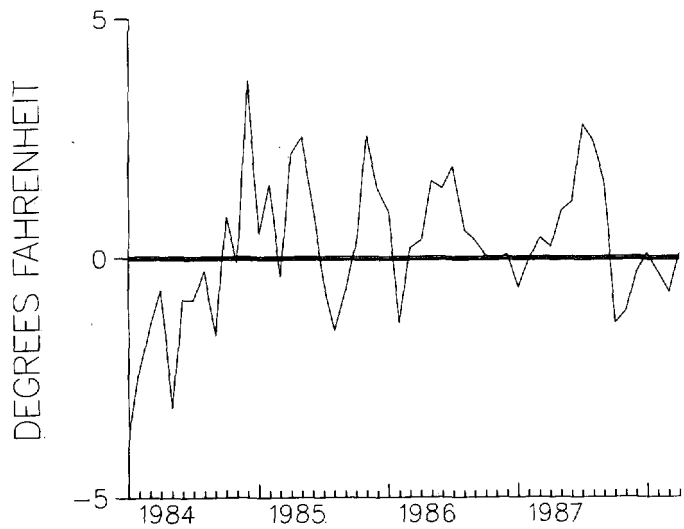
CLUSTER 4 - DIVISION(S):  
 ALLEGHENY PLATEAU 08



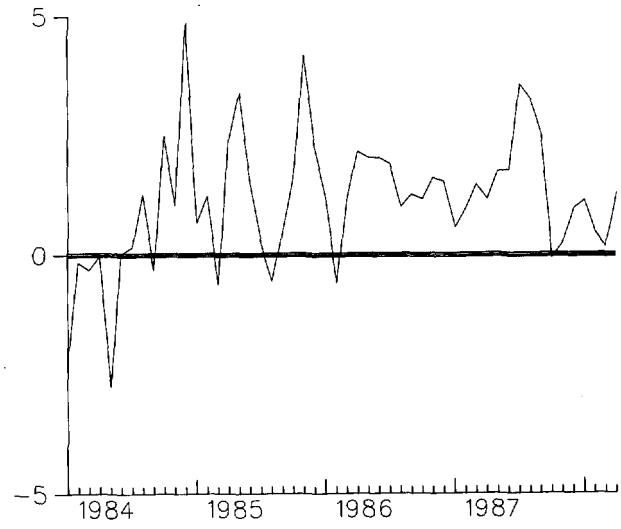
CLUSTER 1



CLUSTER 2



CLUSTER 3

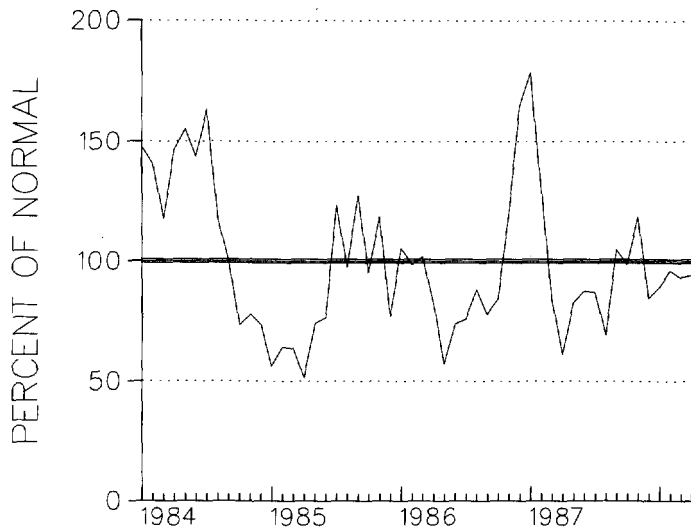


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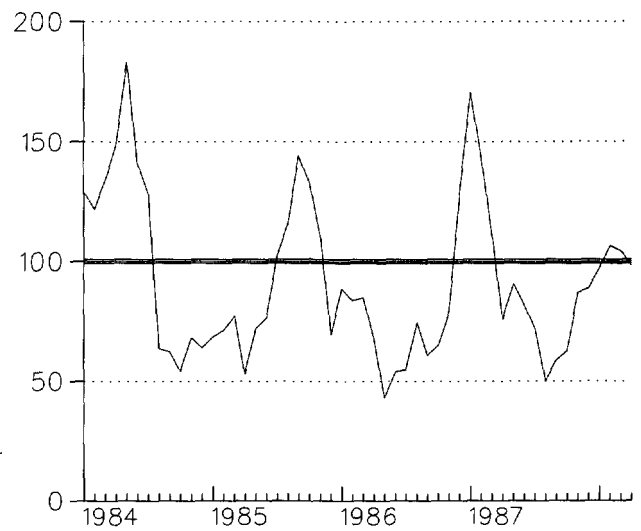
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
THREE MONTH RUNNING MEAN  
FOR THE 52 MONTHS ENDING WITH APRIL 1988 DATA  
DELAWARE

CLUSTER 1 - DIVISION(S):  
NORTHERN 01

CLUSTER 2 - DIVISION(S):  
SOUTHERN 02



CLUSTER 1



CLUSTER 2

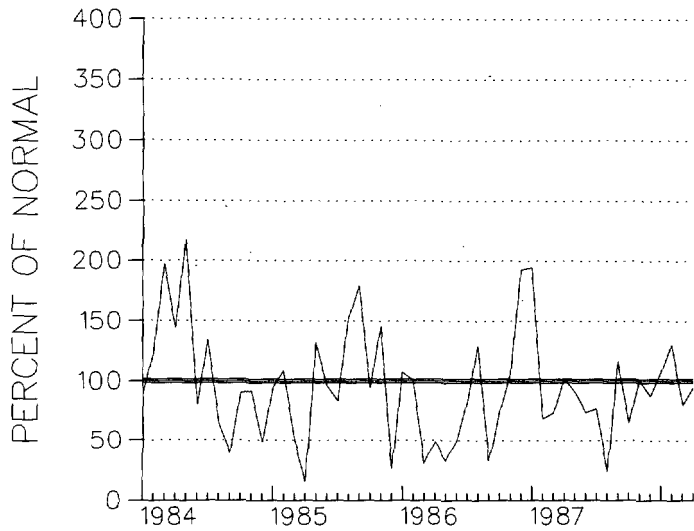
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
 FOR THE 52 MONTHS  
 ENDING APRIL 1988  
 MARYLAND

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

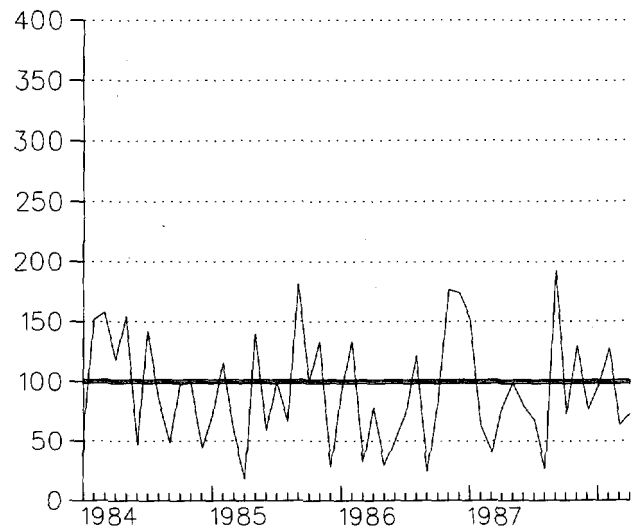
CLUSTER 2 - DIVISION(S):  
 UPPER SOUTHERN 04  
 NORTHERN EASTERN SHORE 05

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

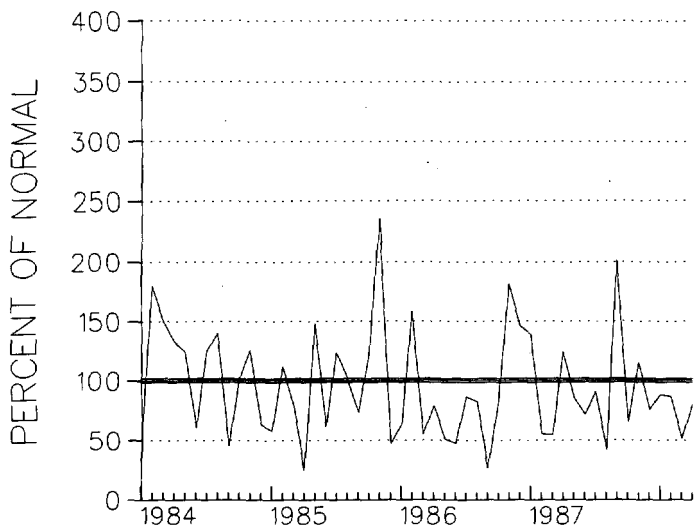
CLUSTER 4 - DIVISION(S):  
 ALLEGHENY PLATEAU 08



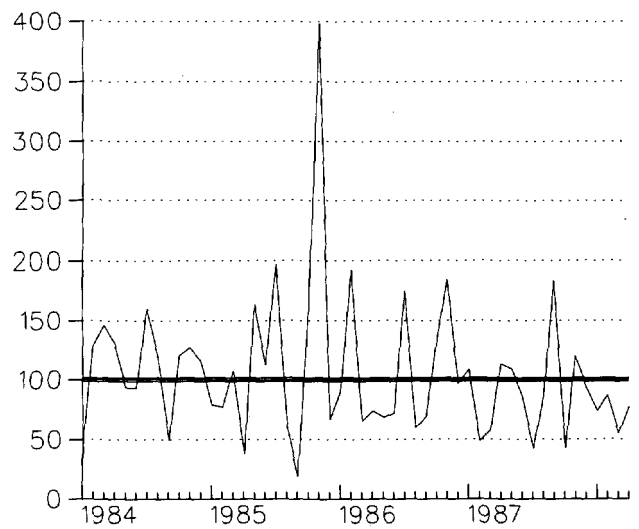
CLUSTER 1



CLUSTER 2



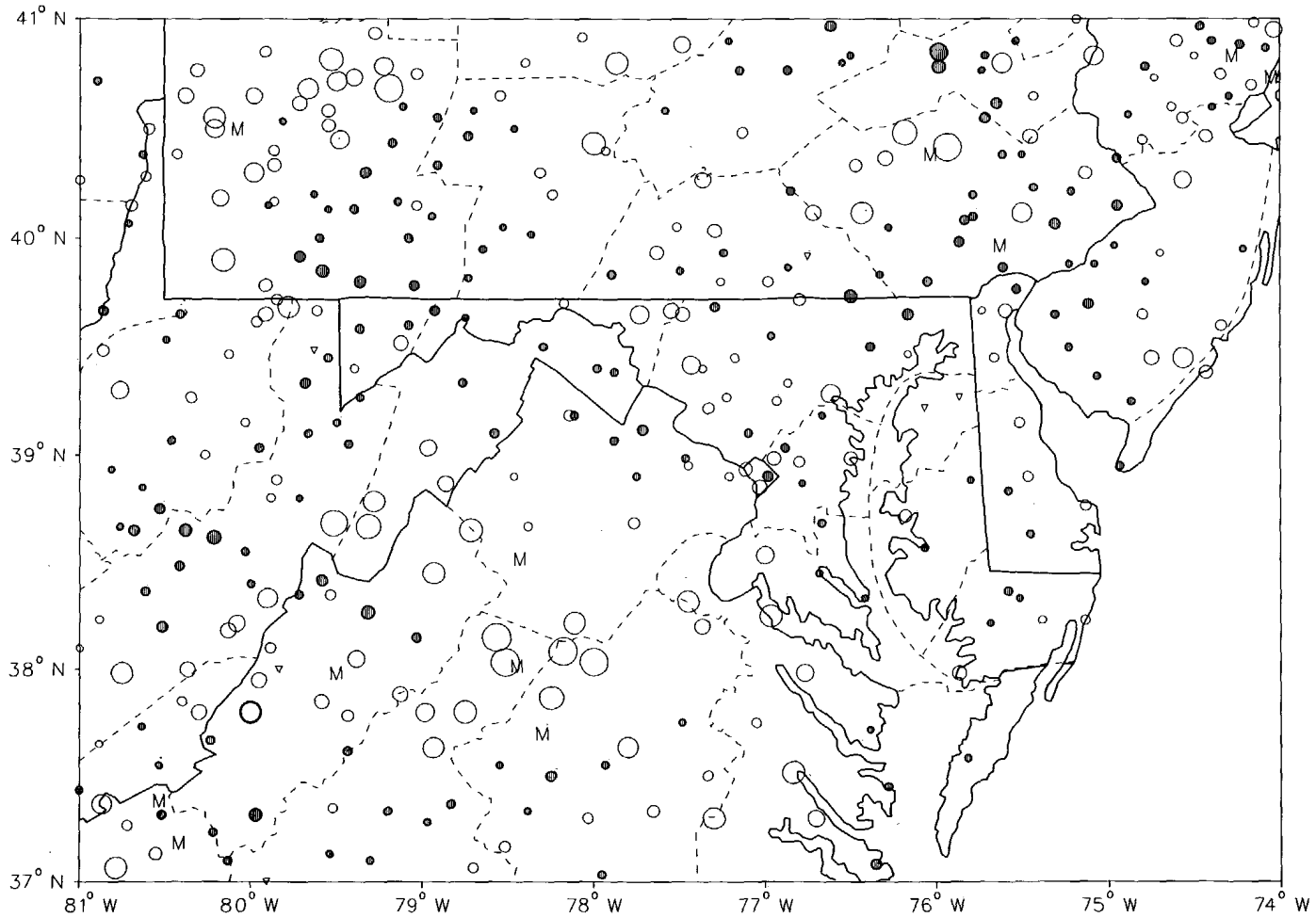
CLUSTER 3



CLUSTER 4

MONTHLY PRECIPITATION DEPARTURE FROM  
THE DIVISIONAL AVERAGE FOR  
APRIL 1988  
MARYLAND & DELAWARE

- M DENOTES INCOMPLETE DATA FOR THE MONTH
- ▽ ZERO DEPARTURE
- ○ ○ ○ ○ 5,10,20,... 50% OR MORE BELOW AVERAGE
- ● ● ● ● 10,20,40,...100% OR MORE ABOVE AVERAGE

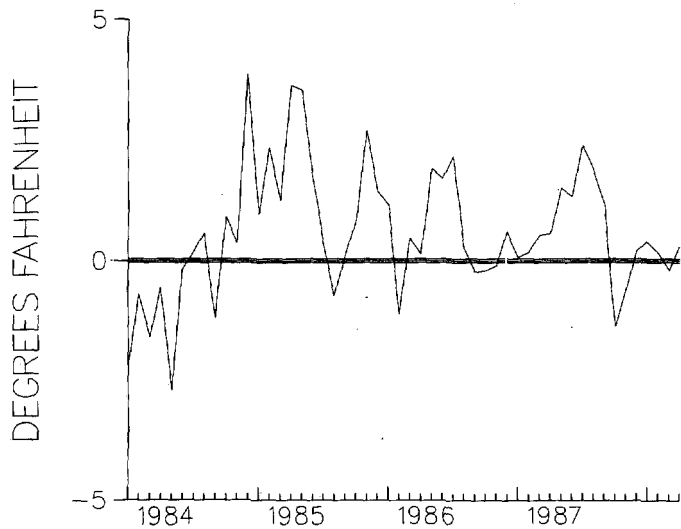


CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

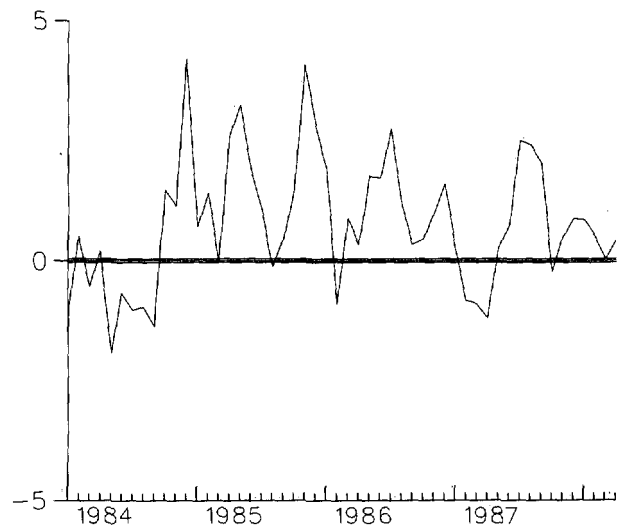
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)  
THREE MONTH RUNNING MEAN  
FOR THE 52 MONTHS ENDING WITH APRIL 1988 DATA  
DELAWARE

CLUSTER 1 -DIVISION(S):  
NORTHERN 01

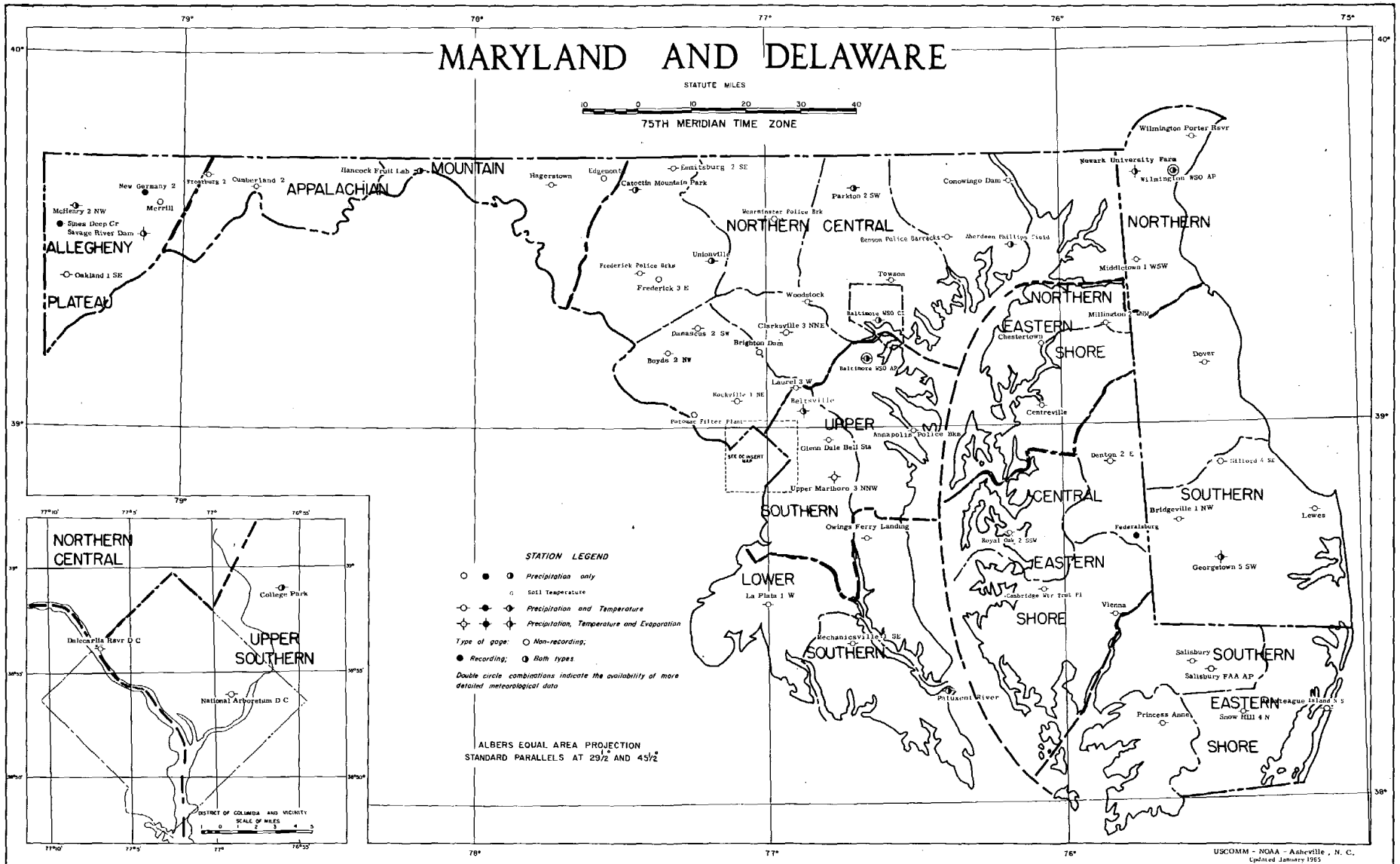
CLUSTER 2 -DIVISION(S):  
SOUTHERN 02



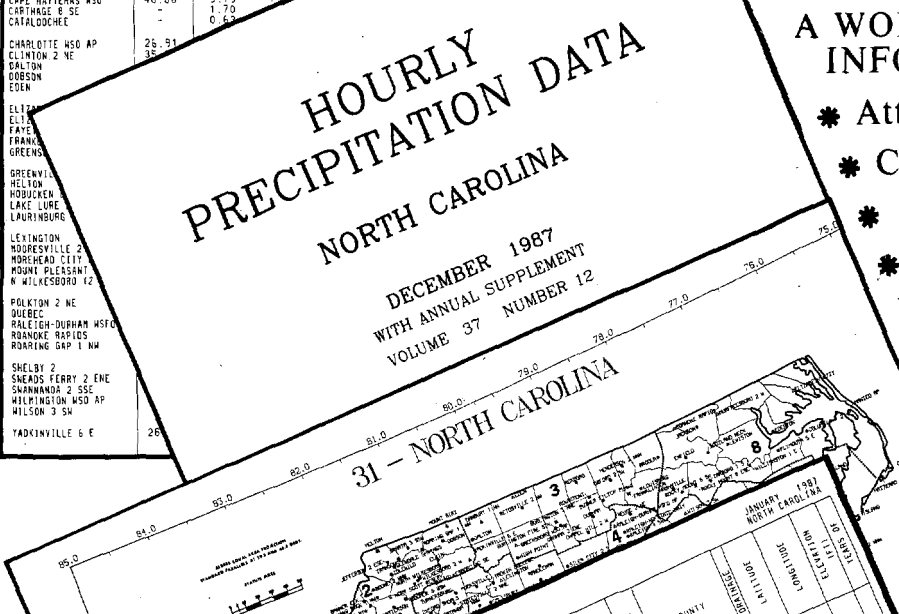
CLUSTER 1



CLUSTER 2



MONTHLY PRECIPITATION TOTALS													ANNUAL 1987 NORTH CAROLINA		
STATION	ANNUAL	MONTH													
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
NORTH CAROLINA	34.57	1.11	1.85	2.75	0.57	3.55							4.19	5.38	4.28
ASHEVILLE WSO AP	25.97	0.71	1.57	1.81	0.53	2.55							2.77	4.15	2.94
ASHEFORD	36.74E	1.20	2.70	2.90	0.54E								3.80	4.90	4.80
BOCWIN	-	-	1.30	3.60	1.30								2.40	4.10	2.90
B EVERETT JORDAN DAM	-	1.70	1.50	3.60									-	1.70	-
BOONER 5 WSO	-	1.00													
BURLINGTON 3 WSO	-	0.80													
CAPE HATTERAS WSO	48.66	5.75	1.92E												
CARTERSVILLE WSO	-	1.70													
CATALDOCHEE	-	0.60													
CHARLOTTE WSO AP	25.91														
CLINTON 2 NE	35														
DALTON	-														
DORSEY	-														
EDEN	-														
ELIZABETH	-														
ELI	-														
FAYET	-														
FRANKLIN	-														
GREENSBORO	-														
HELIOS	-														
HOBOKEN	-														
HOCKESSY	-														
LAKE LURE	-														
LAURINBURG	-														
LEXINGTON	-														
MORRISVILLE 2	-														
NORFOLK CITY	-														
ROCKY GLEN	-														
WILKESBORO 12	-														
POLKTON 2 NE	-														
QUEBEC	-														
RALEIGH-DURHAM WSO	-														
ROANOKE RAPIDS	-														
ROARING GAP 1 NW	-														
SHELBY 2	-														
SNEADS FERRY 2 ENE	-														
SUNNYSIDE 2 SSE	-														
WILKESVILLE WSO AP	-														
WILSON 3 SW	-														
YADKINVILLE 6 E	26														



STATION	COUNTY	ELEVATION (FEET)	MONTHLY PRECIPITATION MAXIMA				
			15 MINUTES	30 MINUTES	45 MINUTES	1 HOUR	5 HOURS
NORTH CAROLINA			18.29(10/15)	18.29(10/15)	20.23(10/15)	20.23(10/15)	42.18(10/15)
ASHEVILLE WSO AP	ASHEVILLE	1910	18.29(10/15)	18.29(10/15)	20.23(10/15)	20.23(10/15)	42.18(10/15)
ASHEFORD	ASHEFORD	1050	18.29(10/15)	18.29(10/15)	20.23(10/15)	20.23(10/15)	42.18(10/15)
BOCWIN	BOCWIN	1050	18.29(10/15)	18.29(10/15)	20.23(10/15)	20.23(10/15)	42.18(10/15)
B EVERETT JORDAN DAM	BOCWIN	1050	18.29(10/15)	18.29(10/15)	20.23(10/15)	20.23(10/15)	42.18(10/15)

STATION	COUNTY	HOURLY PRECIPITATION											
		1	2	3	4	5	6	7	8	9	10	11	12
NORTH CAROLINA		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ASHEVILLE WSO AP	ASHEVILLE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

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# HOURLY PRECIPITATION DATA

## NORTH CAROLINA


JANUARY 1987

VOLUME 37 NUMBER 1



**HOURLY PRECIPITATION DATA** is published monthly and presents daily, hourly, and maximum short duration data for recording rain gage stations in each state except Alaska. Also included are a published station index and a locator map for the state. In addition to the regularly published data, the December publication contains a tabulation of monthly and annual total precipitation amounts as an annual supplement.

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