

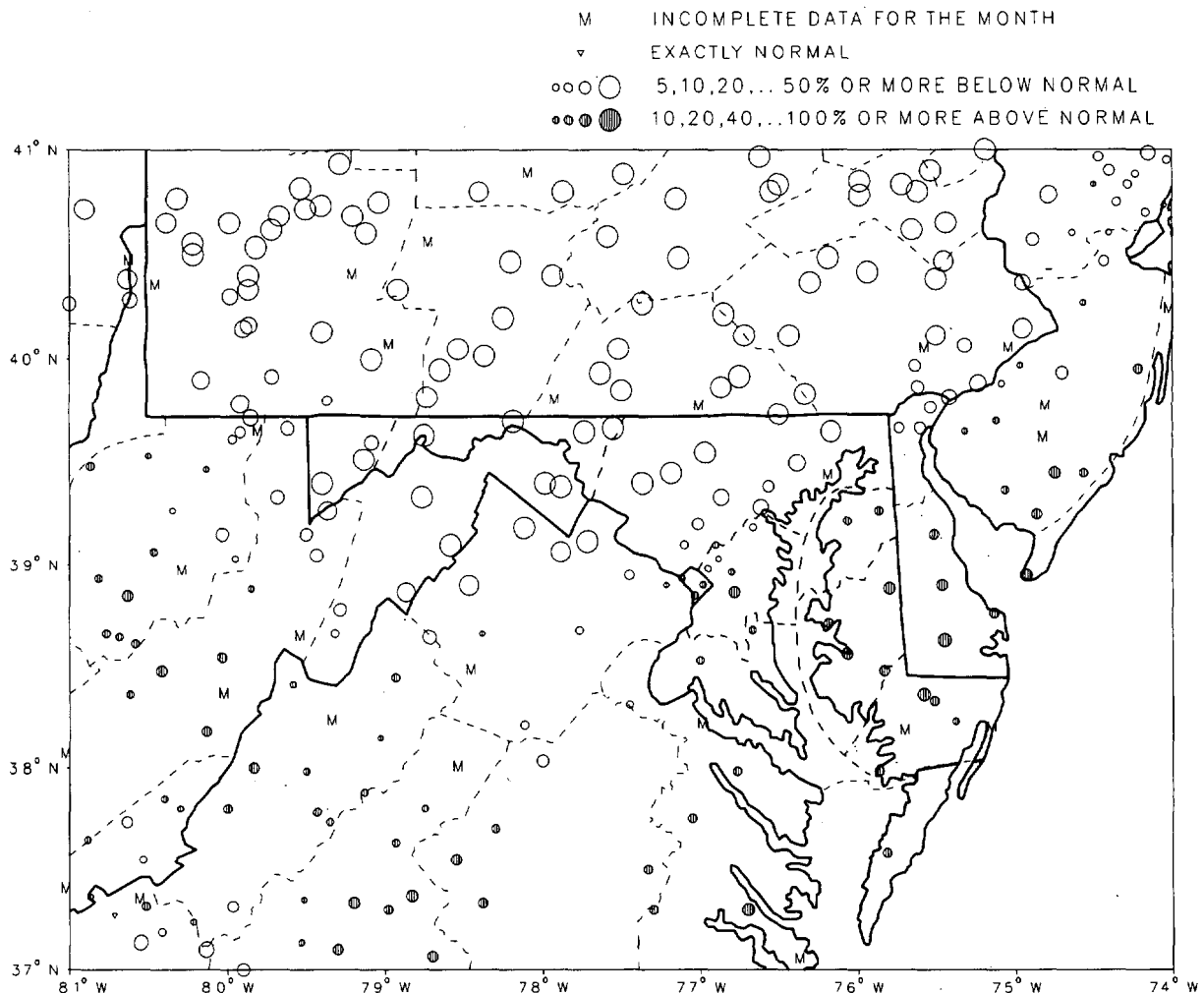


ISSN 0145-0549

CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

APRIL 1989
VOLUME 93 NUMBER 4

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



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

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Kenneth D. Wadsworth

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

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ATMOSPHERIC ADMINISTRATION

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ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE NORTH CAROLINA

TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND AND
DELAWARE
APRIL 1989

MARYLAND
HIGHEST TEMPERATURE 83
LOWEST TEMPERATURE 14
GREATEST TOTAL PRECIPITATION 6.27
LEAST TOTAL PRECIPITATION 1.00
GREATEST 1 DAY PRECIPITATION 2.17
GREATEST TOTAL SNOWFALL 7.0
GREATEST DEPTH OF SNOW OR ICE 2

DELAWARE
HIGHEST TEMPERATURE 80
LOWEST TEMPERATURE 25
GREATEST TOTAL PRECIPITATION 6.48
LEAST TOTAL PRECIPITATION 2.76
GREATEST 1 DAY PRECIPITATION 1.57

APRIL 19+
APRIL 11

APRIL 30
APRIL 2

APRIL 18
APRIL 10

APRIL 30

5 STATIONS
OAKLAND 1 SE
SALISBURY
HAGERSTOWN
UPPER MARLBORO 3 NNW
MC HENRY 2 NW
MC HENRY 2 NW

DOVER
NEWARK UNIVERSITY FARM
GEORGETOWN 5 SW
WILMINGTON WSO ARPT R
GREENWOOD 2 NE

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
APRIL 1989

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	.10 OR MORE	.50 OR MORE	1.00 OR MORE
MARYLAND																								
SOUTHERN EASTERN SHORE 01																								
ASSATEAGUE ISLAND NATL SE	58.6	43.6	51.1		70	5	22	2	408	0	0	0	5	0	4.60		1.32	16	.0	0		8	4	2
CRISFIELD SOMERS COVE	65.3	46.5	55.9	-.5	83	19	33	12	269	7	0	0	0	0	4.52	1.55	1.23	6	.0	0		8	4	1
PRINCESS ANNE																								
SALISBURY	66.3	42.9	54.6	-1.2	80	18	29	12	313	8	0	0	3	0	6.27	2.96	1.32	6	.0	0		8	5	2
SALISBURY FAA AP	63.9	42.2	53.1	-1.1	80	18	27	12	360	8	0	0	5	0	4.76	1.60	1.07	15	.0	0		9	4	2
SNOW HILL 4 N	65.6	42.0	53.8	-.8	82	18	26	12	338	10	0	0	5	0	3.93	.61	.90	15	.0	0		6	4	0
--DIVISIONAL DATA-->																								
			53.7	-1.2											4.87	1.71			.0					
CENTRAL EASTERN SHORE 02																								
CAMBRIDGE WTR TRMT PL	66.0	44.5	55.3	-.4	80	19	29	12	289	5	0	0	2	0	5.65	2.35	1.28	30	.0	0		10	5	2
DENTON 2 E	65.9	41.5	53.7	-1.2	79	27+	27	12	340	10	0	0	7	0	5.95	2.63	1.03	30	.0	0		11	6	2
ROYAL OAK 2 SSW	63.4	44.3	53.9	-1.9	78	18	32	23+	327	3	0	0	2	0	5.19	1.78	.86	15	.0	0		11	5	0
VIENNA	67.0	42.0	54.5	-1.1	83	18	28	12	310	4	0	0	4	0	5.43	2.09	1.00	6	.0	0		9	4	1
--DIVISIONAL DATA-->																								
			54.4	-.9											5.56	2.29			.0					
LOWER SOUTHERN 03																								
LA PLATA 1 W	67.1	41.4	54.3	-1.2	83	18	28	12+	323	8	0	0	6	0	4.12	.95	.80	19	.0	0		8	5	0
MECHANICSVILLE 1 E	65.7	41.0	53.4		83	18	25	12	348	8	0	0	6	0	4.46		.89	19	.0	0		7	5	0
OWINGS FERRY LANDING	65.8	41.3	53.6	-1.9	80	18	26	12	340	4	0	0	6	0	4.13	.89	.83	6	.0	0		8	5	0
PATUXENT RIVER	62.6	45.1	53.9		81	4	33	12+	334	7	0	0	0	0	4.75		1.29	7	.0	0		7	4	2
TALL TIMBERS																								
--DIVISIONAL DATA-->																								
			53.8	-1.9											4.37	1.24			.0					
UPPER SOUTHERN 04																								
ANNAPOLIS POLICE BRKS	65.6	40.2	52.9		82	18	28	12	358	3	0	0	6	0	5.09		1.35	29	.0	0		9	4	1
BALTIMORE WSO AP	63.0	41.9	52.5	-1.5	79	4	30	12	374	5	0	0	5	0	3.16	-.19	.60	15	.0	0		7	2	0
BELTSVILLE	62.5	40.0	51.3	-1.4	79	28	25	12	398	2	0	0	8	0	3.33	-.04	.83	19	.0	0		9	3	0
COLLEGE PARK	63.9	42.3	53.1	-2.3	79	28+	29	12	354	4	0	0	5	0	3.23	-.14	.91	19	.0	0		8	2	0
DALECARLIA RESVR D C	67.1	37.3	52.2	-3.5	81	27	22	12	382	3	0	0	11	0	4.26	.66	.91	19	.0	0		9	4	0
GLENN DALE BELL STN	66.8	37.9	52.4	-1.8	81	27+	23	12	378	3	0	0	12	0	4.13	.61	1.10	19	.0	0		9	3	1
LAUREL 3 W	63.6	41.5	52.6	-2.6	80	26	29	12	370	2	0	0	4	0	3.90	.50	.75	15	.0	0		9	4	0
NATIONAL ARBORETUM D C	64.8	40.3	52.6	-3.6	81	19	28	12	371	3	0	0	4	0	3.96	.59	1.02	19	.0	0		8	4	1
UPPER MARLBORO 3 NNW	63.2	37.7	50.5		79	19	24	12	432	1	0	0	9	0	5.58	2.26	2.17	30	.0	0		9	5	1
--DIVISIONAL DATA-->																								
			52.2	-2.2											4.07	.70			.0					
NORTHERN EASTERN SHORE 05																								
CHESTERTOWN	63.2	42.5	52.9	-1.2	78	18	30	12	361	4	0	0	4	0	4.42	1.17	1.05	29	.0	0		9	4	1
MILLINGTON 1 SE	64.5	40.7	52.6	-.6	78	18	28	12	367	5	0	0	6	0	4.49	1.31	.85	8	.0	0		10	4	0
--DIVISIONAL DATA-->																								
			52.8	-1.3											4.46	1.26			.0					
NORTHERN CENTRAL 06																								
ABERDEEN PHILLIPS FLD	65.2	42.3	53.8		76	18+	28	12	334	6	0	0	2	0	2.72		.63	15	.0	0		2	1	0
BALTIMORE WSO CI	66.4	49.1	57.8	1.0	83	18	37	11	233	25	0	0	0	0	2.39	-1.12	.63	15	.0	0		7	1	0
BENSON POLICE BARRACKS	66.8	39.8	53.3	.5	80	27	27	12	343	1	0	0	6	0	2.54	-1.46	.55	15	.0	0		8	1	0
BOYDS 2 NW	63.6	42.0	52.8		76	27+	29	12+	364	3	0	0	5	0	2.04		.79	19	.0	0		5	1	0
CATOCTIN MOUNTAIN PARK	60.0	39.1	49.6		76	30	24	11	459	2	0	0	10	0	1.13		.29	29	.0	0		5	0	0
CLARKSVILLE 3 NNE	65.5	37.1	51.3		79	28	23	12	403	0	0	0	13	0	3.49		1.01	29	.0	0		8	3	1
CONOWINGO DAM	64.1	36.7	50.4	-1.6	79	21	25	12	433	0	0	0	9	0	2.07	-1.75	.65	15	.0	0		6	1	0
DAMASCUS 2 SW	62.2	41.2	51.7		77	30	29	12+	393	4	0	0	5	0	2.16		.61	15	.0	0		7	1	0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
APRIL 1989

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			
EMMITSBURG 2 SE	66.9	39.1	51.0		75	30	24	12	413	0	0	0	9	0	1.77		.35	15	.0	0		8	0	0			
FREDRICK POLICE BRKS	66.2	42.5	54.4		79	30	29	11	317	7	0	0	4	0	1.85		.54	29	.0	0		5	1	0			
MILLERS 4 NE	66.0	39.6	50.3		79	30	26	12	434	0	0	0	8	0	1.37		.38	15	.0	0		0	0	0			
ROCKVILLE 1 NE	66.5	42.9	52.2	-2.7	77	30	26	12	384	5	0	0	3	0	2.97	-1.27	.53	55	.0	0		2	2	0			
TOWSON	66.4	39.5	51.8		77	4	26	12	390	0	0	0	10	0	3.24	-1.74	.75	15	.0	0		10	2	0			
UNIONVILLE	66.4	35.9	50.1	-1.4	78	30	21	12	437	0	0	0	13	0	1.40	-2.11	.47	15	.0	0		5	0	0			
WESTMINSTER POLICE BRK	66.3	36.5	50.2	-2.0	79	30	24	23	436	0	0	0	12	0	1.28	-2.41	.27	19	.0	0		7	0	0			
WOODSTOCK	64.7	39.7	52.2	-1.7	78	30	25	12	378	1	0	0	9	0	2.42	-1.20	.66	15	.0	0		7	1	0			
--DIVISIONAL DATA----->			52.1	-1.1											2.14	-1.49			.0								
APPALACHIAN MOUNTAIN 07																											
CUMBERLAND 2	64.3	37.2	50.8	-2.7	80	30	24	10	424	2	0	0	11	0	1.74	-1.62	.65	29	.0	0		7	1	0			
FROSTBURG 2	54.0	33.6	43.8		72	18	20	11	628	0	0	0	13	0	2.36		.59	29	2.6	1	1	8	1	0			
HAGERSTOWN	64.1	40.6	52.4	-1.2	80	30	26	11	374	3	0	0	6	0	1.00	-2.50	.25	15	.0	0		3	0	0			
HANCOCK FRUIT LAB	63.6	33.8	48.7	-2.4	81	28	20	11	481	0	0	0	15	0	1.49	-1.75	.30	29	.0	0		6	0	0			
--DIVISIONAL DATA----->			48.9	-3.4											1.65	-1.78			.7								
ALLEGHENY PLATEAU 08																											
MC HENRY 2 NW	54.9	33.2	44.1		73	18	18	11	623	0	0	0	17	0	3.21		1.01	29	7.0	M	2	2	8	2	1		
OAKLAND 1 SE	56.9	32.2	44.6	-2.6	72	30	14	11	604	0	0	0	17	0	1.92	-2.59	.51	29	3.0			6	1	0			
SAVAGE RIVER DAM	58.3	33.5	45.9	-2.5	75	28	19	14	567	0	0	0	17	0	1.74	-1.74	.47	29	.5	1	1	4	0	0			
--DIVISIONAL DATA----->			44.9	-2.3											2.29	-1.90			3.5								
DELAWARE																											
NORTHERN 01																											
NEWARK UNIVERSITY FARM	64.3	38.5	51.4	-1.4	78	4	25	10	399	0	0	0	10	0	2.99	-1.51	.55	15	.0	0		9	2	0			
WILMINGTON WSO ARPT	62.3	40.8	51.6	-1.8	78	4	29	12	395	0	0	0	4	0	2.76	-1.63	.75	15	.0	0		7	2	0			
WILMINGTON PORTER RSVR	60.8	41.9	51.4	-1.4	77	4	32	23	402	0	0	0	4	0	3.06	-1.82	.80	15	.0	0		8	2	0			
--DIVISIONAL DATA----->			51.5	-1.2											2.94	-1.60			.0								
SOUTHERN 02																											
DOVER	63.9	40.7	52.3	-2.4	80	18	28	12	381	4	0	0	4	0	5.05	1.84	1.25	8	.0	0		7	5	1			
GEORGETOWN 5 SW	62.6	40.3	51.5	-2.1	78	19	26	12	401	3	0	0	5	0	6.48	3.28	1.20	30	.0	0		10	6	2			
GREENWOOD 2 NE	64.2	41.6	52.9		79	18	28	12	357	3	0	0	5	0	5.90		1.57	30	.0	0		9	6	1			
LEWES	63.1	45.7	54.4	1.3	77	4	31	12	320	7	0	0	1	0	5.23	1.82	1.26	29	.0	0		8	4	1			
MILFORD 4 SE	63.3	42.9	53.1	-1.3	78	18	29	12	355	7	0	0	2	0	5.83	2.42	1.33	30	.0	0		8	6	2			
--DIVISIONAL DATA----->			52.8	-1.3											5.70	2.39			.0								

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
APRIL 1989

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	M 4.60	.63		.16	.05	T	.20		1.00	.04						.60	1.32			.47	.01									.12	-	
CRISFIELD SOMERS COVE	4.52	.69		.20		.01	1.23	.35	.80		.01					.90	.11														.22	
PRINCESS ANNE	M																															
SALISBURY	6.27	.02	T	.03		.10	1.32	.80	.94	.05						1.30	.09			.32										.40	.90	
SALISBURY FAA AP	4.76			.15		.93	.25	1.00	.21	T						1.07			.36	.05						T				.64	.10	
SNOW HILL 4 N	3.93	.02		.28	T	.01	.87	.09	.85	.02						.90	.23		T	.55										.06	.05	
CENTRAL EASTERN SHORE 02																																
CAMBRIDGE WTR TRMT PL	5.65			.27	T	.15	.53	.15	1.05	.06						.85	.17			.42										.72	1.28	
DENTON 2 E	5.95			.35		.13	.63	.24	1.00	.13						.86	.13			.57										.88	1.03	
ROYAL OAK 2 SSW	5.19			.32		.11	.77	.47	.83	.10						.86	.12		T	.65						T				.82	.14	
VIENNA	5.43			.37	.02	.02	1.00	.19	.98	.08						.80	.38			.72										.39	.48	
LOWER SOUTHERN 03																																
LA PLATA 1 W	4.12			.14	.02	.52	.60	.46	.20	.01						.75	.01			.80										.58	.03	
MECHANICSVILLE 1 E	4.46	T		.28	T	.09	.83	.56	.37	.03						.78	.09			.89										.54		
OWINGS FERRY LANDING	4.13			.24		.15	.83	.23	.53	.05						.60	.05			.82										.59	.04	
PATUXENT RIVER	4.75			.21		.84	.22	1.29	.02							1.08			.29	.03										.77		
TALL TIMBERS	M																															
UPPER SOUTHERN 04																																
ANNAPOLIS POLICE BRKS	5.09			.22		.36	.75	.13	.35	.30						.50	.09			.97										1.35	.07	
BALTIMORE WSO AP	3.16			.15	T	.46	.05	.33	.08	.04						.60			.45	.42						T		T		.58		
BELTSVILLE	3.33	.12		.22	.01		.53		.34	.17						.13	.56			.83										.42		
COLLEGE PARK	3.23			.26		.55		.34	.14							.14	.48			.91										.41		
DALECARLIA RESVR D C	4.26			.18		.30	.42	.90	.16	.12						.62	.03			.91										.59	.03	
GLENN DALE BELL STN	4.13	.10		.20	.01	.05	.60	.07	.37	.16						.44	.22			1.10										.81		
LAUREL 3 W	3.90			.28		.55	.14	.33	.25	.03						.75	.01		.38	.61										.57		
NATIONAL ARBORETUM D C	3.96	.07		.16	.02	.02	.64		.36	.10						.12	.50			1.02										.95		
UPPER MARLBORO 3 NNW	5.58	.06		.15	.04	.11	.98		.50	.13						.10	.58			.76										2.17		
NORTHERN EASTERN SHORE 05																																
CHESTERTOWN	4.42		T	.28	.01	.18	.33	.83	.04	.10						.71	.01		.27	.61								T		1.05	T	
MILLINGTON 1 SE	4.49	T		.31	.01	.20	.61	.13	.85	.13						.49	.31			.79										.62	.04	
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD	M 2.72	*	*	.37		T	.66	.02	*	*	.42					*	*	.77		.48												
BALTIMORE WSO CI	2.39			.15		.35	.06	.19	.01	.05						.63			.30	.40										.25		
BENSON POLICE BARRACKS	2.54			.28	.02	.13	.38	.01	.17	.10						.55	.08			.39										.35	.08	
BOYDS 2 NW	2.04			.08		.26	.20	.05	.02							.47	.02			.79										.15		
BRIGHTON DAM	2.80					.50		.20	.10							.60			.50	.50										.40		
CATOCTIN MOUNTAIN PARK	1.13			.23	.04	.17	.12	.01	T	.07						.02				.18										.29		
CLARKSVILLE 3 NNE	3.49			.19		.30	.32	.04	.10	.15						.62	.05			.68										1.01	.03	
CONOWINGO DAM	2.07		.02	.17	.04	.27	.05	.12	.06	.09						.65	.01		.19	.09										.31		
DAMASCUS 2 SW	2.16			.13		.33	.09	.08	.01	.11						.61	.01		.31	.25							T			.22	.01	
EMMITSBURG 2 SE	1.77			.25	.25	.10	.25			.12						.35	.05			.10										.30		
FREDRICK POLICE BRKS	1.85			.09		.10	.15	T	T	.06						.41	.04			.41										.54	.05	
FREDERICK 3 E	1.80	.09		.10		.33		T	T	.12						.18	.37			.32										.09	.20	
MILLERS 4 NE	1.37			.17	T	.11	.17	T	T	.04						.38	.04		T	.20								T		.24	.02	
POTOMAC FILTER PLANT	2.26			.06		.55		.20	.07	.06						.24			.29	.38										.41		
ROCKVILLE 1 NE	2.97			.18	T	.53	.02	.19	.14	.06						.52			.44	.42										.47		
TOWSON	3.24			.31	.05	.10	.52	.11	.19	.11						.75	.01			.40										.34	.35	
UNIONVILLE	1.40			.13		.21	.06	.01		.04						.47				.28										.20	T	
WESTMINSTER POLICE BRK	1.28			.19		.07	.16	T	T	.14	.10					.10	.05			.27										.16	.04	
WOODSTOCK	2.42			.18		.33	.27	.06	.07	.12						.66				.38										.32	.03	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
APRIL 1989

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	1.74	.09		.10	.04		.15			.12		T				.05	.12		.02	.28								.02		.65	.10	
EDGEMONT	1.03	.02		.15		T	.17			.03						.06	.20			.14										.14	.12	
FROSTBURG 2	2.36	.21	.02	.15	.06	.02	.09	T	T	.20	.03	.02			T	.04	.13		.12	.40			T							.59	.23	
HAGERSTOWN	1.00	*	*	.12	.05	.20	.02		.01	T						.25	.09		.05	.09										.21		
HANCOCK FRUIT LAB	1.49	.27		.08	.02		.19			.04						.12	.13			.27										.30	.07	
ALLEGHENY PLATEAU 08																																
MC HENRY 2 NW	3.21	.33	.05	.13	.02	.08		.03		.32				T	.06	.02	.06		.19	.61										1.01	.06	
MERRILL	2.64	.15	.10		.03				.10	.40	.01	.01			.05	.05	.04		.15	.40								.14	.10		1.05	.05
OAKLAND 1 SE	1.92	.05		.05	T	.03	T	.09	T	.12	T			.10		.09			.18	.46						.21	.03			.51	T	
SAVAGE RIVER DAM	1.74	.10	T	.06	.03	.01	.07	T	T	.29	.01	T		T	.07		.04		.03	.37								.05	.06	T	.47	.08
DELAWARE																																
NORTHERN 01																																
NEWARK UNIVERSITY FARM	2.99			.20	.02	.30	.50	.05	.33	.15						.55	.17			.27										.38	.07	
WILMINGTON WSO ARPT R	2.76		T	.12	T	.41	.23	.37	.01	.06						.75	T		.06	.14										.61		
WILMINGTON PORTER RSVR	3.06		T	.24	T	.34	.25	.34	.04	.21						.80			.05	.21										.58		
SOUTHERN 02																																
DOVER	5.05	.09		.28		.02	.81	.02	1.25	.08						.80	.10			.75										.85		
GEORGETOWN 5 SW	6.48	.76		.28	.05		.93	.05	1.09	.11						.35	.85	.23		.55	.03									.56	1.20	
GREENWOOD 2 NE	5.90			.36		.55	.15	.36	.65	.08						.87	.04			.71												1.57
LENES	5.23	.05		.31	T	.02	.81	.06	.78	.04						.74	.42	T		.32										1.26	.42	
MILFORD 4 SE	5.83			.33	T		1.05	T	.94	.05						.72	.16			.61										.64	1.33	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
APRIL 1989

STATION			OB.	TIME	DAY OF MONTH																															AVERAGE
				MAX/MIN	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	61	55	50	62	70	46	58	51	57	56	56	55	54	56	56	54	64	67	61	57	61	65	56	61	60	62	63	64	64	57			58.6	
		OBS																																		
		MIN	44	22	29	32	51	46	30	40	48	44	34	31	42	42	42	48	51	56	50	42	52	52	35	35	49	49	50	53	52	56			43.6	
		OBS	26							20															46	48										
CRISFIELD SOMERS COVE	17	MAX	68	53	65	71	71	61	55	51	58	58	52	55	62	58	57	61	71	81	83	72		67	64	61	71	72	76	74	74	73			65.3	
		OBS																						83												
		MIN	44	38	46	46	58	48	43	36	47	47	37	33	40	40	50	50	47	57	44	44	42	42	39	49	49	54	55	55	54	60			46.5	
PRINCESS ANNE	17	MAX																																		M
		MIN																																		M
SALISBURY	17	MAX	76	55	70	77	74	62	56	52	59	58	51	57	62	60	55	60	73	80	78	65	69	67	64	64	76	77	75	71	70	75			66.3	
		MIN	39	33	43	43	60	46	36	31	43	41	36	29	32	35	45	51	40	57	49	45	38	46	34	39	43	45	48	51	50	58			42.9	
SALISBURY FAA AP	MID	MAX	50	55	70	78	74	55	52	51	58	54	51	56	62	60	54	61	73	80	61	65	69	63	58	63	76	76	78	67	71	75			63.9	
		MIN	40	30	46	56	51	46	34	37	44	43	32	27	32	34	48	45	39	57	42	36	36	45	32	38	43	48	46	50	51	58			42.2	
SNOW HILL 4 N	18	MAX	59	55	70	76	75	67	56	53	60	59	50	56	59	57	54	62	74	82	78	63	68	67	62	65	73	75	75	70	71	76			65.6	
		MIN	39	31	43	53	59	47	35	34	44	38	36	26	32	32	47	51	38	55	50	35	33	42	32	36	41	45	46	51	49	61			42.0	
CENTRAL EASTERN SHORE 02																																				
CAMBRIDGE WTR TRMT. PL	16	MAX	65	54	68	77	76	63	56	53	57	58	50	58	62	63	62	64	73	78	80	63	70	69	64	61	74	75	77	76	66	68			66.0	
		MIN	42	34	48	53	59	47	36	31	43	42	38	29	34	42	47	51	42	54	47	40	39	48	39	41	45	50	52	55	52	56			44.5	
DENTON 2 E	17	MAX	68	53	68	78	75	61	59	51	57	55	53	57	62	63	60	63	73	79	76	65	70	61	60	65	74	78	79	75	65	74			65.9	
		MIN	39	31	45	53	58	46	32	31	43	34	37	27	29	30	45	50	39	56	47	37	36	42	30	33	40	45	44	50	52	63			41.5	
ROYAL OAK 2 SSW	18	MAX	57	54	68	76	73	56	54	51	57	53	51	56	60	61	55	62	70	78	70	63	67	63	59	64	73	74	76	67	65	70			63.4	
		MIN	41	34	47	54	56	47	39	36	44	42	37	32	33	34	48	51	43	58	49	42	41	44	32	40	45	49	49	52	54	55			44.3	
VIENNA	18	MAX	63	56	68	73	69	65	57	53	60	60	49	59	65	65	60	65	72	83	81	63	71	72	66	66	71	81	80	76	67	75			67.0	
		MIN	38	34	43	53	53	42	38	31	41	39	32	28	32	34	49	48	43	54	47	37	38	46	34	38	38	43	48	51	52	55			42.0	
LOWER SOUTHERN 03																																				
LA PLATA 1 W	18	MAX	55	59	73	80	74	58	55	50	58	56	53	61	66	67	58	65	80	83	76	67	72	68	66	68	79	78	79	72	62	74			67.1	
		MIN	38	28	47	55	54	46	34	32	37	38	31	28	32	30	45	47	35	55	50	36	37	45	35	35	40	50	47	52	46	57			41.4	
		OBS																																		
MECHANICSVILLE 1 E	19	MAX	51	57	73	79	75	57	54	51	58	53	51	60	63	62	54	65	79	83	73	64	71	68	65	68	78	76	79	69	62	74			65.7	
		MIN	40	27	46	54	56	45	32	32	39	38	34	25	29	28	48	47	36	56	50	35	34	40	33	33	39	48	45	54	52	56			41.0	
OWINGS FERRY LANDING	17	MAX	59	56	73	78	74	57	56	50	57	55	51	58	62	62	59	62	77	80	74	64	70	66	65	67	76	77	76	72	66	75			65.8	
		MIN	40	28	46	54	55	45	32	33	39	36	31	26	30	30	46	48	38	55	50	37	36	40	34	37	40	48	45	53	53	55			41.3	
PATUXENT RIVER	MID	MAX	52	51	71	81	71	58	50	52	60	54	49	55	58	58	53	63	70	77	60	64	65	64	59	62	73	76	72	66	64	71			62.6	
		MIN	41	33	47	57	50	44	36	37	43	41	35	33	36	44	50	44	44	58	44	44	41	49	40	44	47	53	51	55	55	57			45.1	
TALL TIMBERS	17	MAX																																		M
		MIN																																		M
UPPER SOUTHERN 04																																				
ANNAPOLIS POLICE BRKS	17	MAX	59	52	72	79	75	58	58	52	56	57	49	57	63	63	61	65	72	82	71	66	69	68	66	65	72	76	74	75	65	71			65.6	
		MIN	36	30	44	52	52	40	33	32	31	29	34	28	33	31	45	47	37	52	46	38	38	41	33	39	41	44	47	51	50	52			40.2	
BALTIMORE WSO AP	MID	MAX	49	53	70	79	69	54	50	51	56	47	51	56	60	59	54	63	75	78	62	66	68	64	62	66	73	77	75	68	58	77			63.0	
		MIN	34	31	47	54	51	42	36	34	40	38	34	30	32	31	46	41	39	53	45	40	39	45	32	39	45	50	49	52	53	56			41.9	
BELTSVILLE	08	MAX	59	48	55	70	78	69	54	48	50	54	47	52	58	59	64	54	62	77	77	60	65	68	64	60	66	74	77	79	70	58			62.5	
		MIN	42		43	46	55	45	31	34	40	30	29	25	30	28	43	46	35	50	49	36	36	39	30	32	39	47	46	50	54	51			40.0	
		OBS																																		
COLLEGE PARK	09	MAX	60	59	55	70	78	70	54	47	49	56	47	53	59	62	65	53	64	77	79	62	66	70	67	63	69	78	79	79	70	57			63.9	
		MIN	40	30	48	51	58	48	33	37	42	36	33	29	32	30	48	49	37	51	50	38	39	45	32	35	41	49	48	53	53	53			42.3	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
APRIL 1989

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	54 34 34	55 25 25	79 42 42	79 34 34	78 47 47	56 38 38	56 31 31	50 28 28	56 38 38	55 32 32	51 27 27	58 22 22	64 26 26	60 29 29	62 42 42	64 47 47	78 32 32	79 54 54	73 45 45	65 33 33	71 35 35	68 36 36	66 28 29	68 29 29	79 36 36	79 44 43	81 59 43	79 51 43	69 43 51	80 51 51	67.1 37.3	
GLENN DALE BELL STN	16	MAX MIN OBS	59 36 18	52 24 24	70 45 45	77 55 55	79 52 52	57 43 43	56 29 29	51 29 29	54 39 39	56 32 32	54 27 27	59 23 23	63 27 27	64 25 25	63 45 45	57 47 47	77 32 32	79 53 53	81 46 46	67 31 33	71 33 33	70 34 34	68 26 28	67 28 28	79 37 37	79 45 45	81 43 43	78 46 46	65 52 52	70 52 52	66.8 37.9	
LAUREL 3 W	MID	MAX MIN OBS	49 31 31	53 39 35	70 35 35	76 54 44	71 44 39	55 39 39	49 33 33	47 33 33	55 39 39	47 32 30	53 29 29	52 29 29	61 39 35	63 41 41	54 44 46	63 44 54	76 43 45	78 43 45	61 45 49	67 43 49	70 43 48	65 43 48	63 48 54	68 45 45	78 45 45	80 49	79 46	69 49	59 49	76 49	63.6 41.5	
NATIONAL ARBORETUM D C	08	MAX MIN	67 40	51 29	53 34	72 46	79 55	70 47	57 37	48 36	51 37	53 33	59 30	62 33	65 28	55 30	65 30	78 33	81 47	63 39	66 46	72 51	67 37	63 40	69 41	79 33	80 36	80 40	71 46	60 54	60 51	64.8 40.3		
UPPER MARLBORO 3 NNW	08	MAX MIN	70 40	50 26	56 31	71 45	77 55	66 43	55 31	46 33	50 33	55 30	49 24	51 24	58 28	61 27	60 34	53 45	63 34	77 48	79 49	61 33	64 34	69 40	66 29	62 30	67 37	77 45	78 43	77 48	69 53	58 50	63.2 37.7	
NORTHERN EASTERN SHORE	05																																	
CHESTERTOWN	23	MAX MIN	48 40	55 32	68 45	76 53	70 51	55 46	51 37	53 38	56 43	50 38	51 34	59 30	62 32	63 33	53 45	62 46	73 41	78 59	62 45	65 40	71 42	62 45	61 31	66 35	73 43	76 46	75 48	69 50	59 53	73 53	63.2 42.5	
MILLINGTON 1 SE	18	MAX MIN OBS	54 39 39	54 29 29	67 44 44	77 52	76 55	56 47	54 33	51 35	56 42	53 34	51 33	56 28	61 30	60 31	59 50	60 50	72 37	78 59	72 45	64 35	69 37	66 38	60 29	65 32	73 37	76 44	75 44	73 48	73 53	73 52	64.5 40.7	
NORTHERN CENTRAL	06																																	
ABERDEEN PHILLIPS FLD	16	MAX MIN			65 43	76 50	75 58	59 47	55 37			49 41	50 33	56 28	60 37	60 33			71 37	76 57	75 49	64 44	66 46		59 30	64 33	70 39	72 49	74 47	74 51			65.2 42.3	
BALTIMORE WSO C1	MID	MAX MIN	52 42	54 39	73 50	82 58	72 53	58 47	54 43	55 42	59 45	52 41	56 37	58 40	65 45	60 43	56 50	65 52	80 62	83 62	65 52	70 51	74 53	68 49	66 42	72 46	79 57	80 60	76 56	70 56	61 57	76 57	66.4 49.1	
BENSON POLICE BARRACKS	17	MAX MIN	57 35	53 30	70 41	76 46	75 53	57 44	59 33	53 34	56 39	55 35	60 27	60 30	63 33	63 44	63 46	75 38	78 53	78 46	69 38	70 42	68 42	64 29	69 32	76 40	75 45	80 45	79 47	70 48	79 49	66.8 39.8		
BOYDS 2 NW	18	MAX MIN	47 37	52 29	70 44	76 56	75 51	54 44	53 32	48 33	53 39	49 37	49 30	58 29	56 35	63 32	63 45	64 44	75 47	75 59	71 45	63 39	68 41	66 36	60 33	66 36	74 51	73 50	76 48	70 48	65 51	75 51	63.6 42.0	
CATOCTIN MOUNTAIN PARK	17	MAX MIN	42 31	49 29	69 38	70 52	68 48	49 40	48 32	45 30	59 36	48 32	46 24	59 26	54 28	59 29	60 43	72 41	72 46	63 40	59 38	64 41	63 39	59 29	63 33	70 49	71 48	74 47	72 43	58 46	76 58	60.0 39.1		
CLARKSVILLE 3 NNE	17	MAX MIN	52 37	53 26	72 44	77 46	77 51	56 45	54 32	50 32	54 39	53 31	52 25	57 23	58 26	63 24	63 45	65 46	75 31	77 46	75 48	65 31	70 32	67 33	63 25	66 27	76 35	76 43	77 41	79 48	68 52	76 54	65.5 37.1	
CONOWINGO DAM	MID	MAX MIN	50 33	52 28	68 40	78 42	68 46	57 39	51 31	53 32	56 36	51 33	56 25	58 23	60 33	59 28	58 41	75 40	74 33	63 48	67 40	79 34	65 32	65 27	70 30	75 35	75 43	72 42	71 47	60 48	75 49	64.1 36.7		
DAMASCUS 2 SW	19	MAX MIN	47 35	51 30	69 43	76 56	70 49	52 43	47 34	48 33	53 39	47 34	50 29	57 30	56 34	63 45	62 43	75 46	75 60	61 44	64 39	68 42	64 42	62 29	66 34	74 48	74 48	76 49	68 47	59 50	77 52	62.2 41.2		
EMMITSBURG 2 SE	17	MAX MIN OBS	50 37 37	51 27 27	69 41 41	74 48	68 54	54 45	53 31	51 33	54 40	52 37	50 25	55 24	56 31	60 25	59 46	63 45	73 32	73 55	71 45	62 33	65 41	66 38	62 30	66 30	71 38	72 46	74 55	75 44	63 49	75 52	62.9 39.1	
FREDRICK POLICE BRKS	17	MAX MIN	54 38	55 32	68 42	78 53	76 55	56 46	55 35	51 34	55 39	55 37	51 29	58 30	59 34	63 46	65 47	76 39	78 61	65 46	70 40	66 45	70 45	66 33	70 37	76 48	75 50	79 49	79 49	66 51	76 53	66.2 42.5		
MILLERS 4 NE	18	MAX MIN	46 35	51 29	68 41	74 51	68 51	52 44	49 31	48 31	51 39	48 36	48 29	55 26	55 33	59 27	54 46	60 46	72 54	72 54	67 44	62 37	65 44	61 42	59 27	65 29	70 45	68 46	75 43	73 44	60 48	75 50	61.0 39.6	
ROCKVILLE 1 NE	17	MAX MIN	47 36	53 32	69 46	76 60	67 51	54 43	48 37	48 35	52 41	45 33	49 29	55 23	56 33	61 47	53 47	75 47	71 37	67 59	60 40	64 40	67 41	62 45	61 35	66 35	72 47	74 50	75 49	66 52	58 52	77 55	61.5 42.9	
TOWSON	18	MAX MIN OBS	51 31 31	50 29 29	69 43 43	77 48	75 47	67 43	53 32	50 34	54 36	53 36	51 29	55 26	58 29	60 32	56 44	62 45	74 39	75 52	72 45	65 42	72 43	65 49	65 31	64 32	70 30	73 45	73 48	62 50	76 50	64.0 39.5		
UNIONVILLE	18	MAX MIN	50 35	52 25	70 43	76 49	73 53	55 43	54 27	49 26	56 39	53 31	51 23	59 21	58 30	63 22	63 43	74 30	74 49	66 45	64 28	67 36	66 33	63 26	74 33	73 42	75 38	73 42	68 55	78 52	64.3 35.9			
WESTMINSTER POLICE BRK	17	MAX MIN	52 31	53 26	68 36	72 47	75 48	55 41	52 29	49 29	54 34	53 30	48 25	58 27	58 32	60 25	62 42	59 42	75 35	75 50	71 39	63 37	68 41	65 29	60 24	65 31	72 46	79 45	76 43	76 43	66 45	79 42	63.9 36.5	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
APRIL 1989

STATION	DB. 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	50 35	53 29	71 43	77 53	76 52	53 45	52 32	51 32	55 39	52 36	52 28	58 25	59 30	63 28	55 45	62 47	76 35	76 52	73 47	66 35	69 37	65 42	63 28	67 30	76 40	72 45	77 44	76 49	62 53	78 54	64.7 39.7	
APPALACHIAN MOUNTAIN	07																																	
CUMBERLAND 2	18	MAX MIN	45 31	54 32	74 42	75 49	71 43	53 35	49 29	48 32	52 37	48 24	53 25	60 26	56 28	66 28	63 43	65 36	79 36	77 42	61 34	67 36	67 39	65 30	65 32	73 34	71 46	73 45	79 49	77 49	64 50	80 54	64.3 37.2	
FROSTBURG 2	07	MAX MIN	53 28	35 28	47 29	65 38	67 47	52 37	44 33	42 33	38 28	42 29	34 20	43 21	51 24	46 26	59 26	46 38	57 37	72 39	62 36	51 33	59 36	59 37	55 28	56 27	65 33	67 48	66 42	71 42	61 45	56 51	54.0 33.6	
HAGERSTOWN	18	MAX OBS MIN OBS	48 ** 37 **	50 * 32 **	76 * 32 **	73 * 50 **	69 * 52 **	55 * 40 **	48 34	49 31	54 39	49 33	51 26	58 28	57 38	63 30	56 46	65 43	76 42	75 56	69 45	64 39	68 43	68 37	64 30	73 33	75 49	73 47	78 46	73 47	67 50	80 53	64.1 40.6	
HANCOCK FRUIT LAB	16	MAX MIN	53 36	48 28	57 32	76 44	80 49	59 40	54 29	50 30	51 29	56 30	43 20	53 21	61 24	57 23	66 34	52 41	66 30	80 33	75 44	62 33	69 35	70 31	66 25	65 27	73 29	76 39	74 40	81 44	66 45	68 50	63.6 33.8	
ALLEGHENY PLATEAU	08																																	
MC HENRY 2 NW	08	MAX MIN	55 25	33 23	44 30	65 40	67 44	51 33	44 31	44 28	39 29	42 26	35 18	45 19	55 24	46 28	64 29	47 32	58 33	73 43	55 31	54 31	62 36	63 33	58 26	58 28	67 35	66 48	60 48	60 43	66 48	72 54	54.9 33.2	
OAKLAND 1 SE	17	MAX MIN	34 26	49 25	64 40	65 42	66 45	50 35	41 32	41 26	42 32	41 23	42 14	52 17	52 25	61 18	59 42	57 36	72 27	69 50	52 34	58 25	61 29	59 28	56 21	66 21	67 32	59 47	65 39	69 39	67 48	72 48	56.9 32.2	
SAVAGE RIVER DAM	08	MAX MIN	64 29	39 29	62 31	69 40	65 45	55 39	47 34	46 29	42 32	46 32	38 20	47 20	56 24	50 19	64 30	51 39	60 32	75 33	62 39	55 30	65 32	64 33	59 27	59 28	69 31	70 43	66 44	75 44	68 48	60 48	58.3 33.5	
DELAWARE																																		
NORTHERN	01																																	
NEWARK UNIVERSITY FARM	17	MAX MIN	52 31	54 29	68 42	78 45	77 53	55 45	54 36	53 36	55 31	54 25	51 30	58 27	58 30	61 29	61 44	59 49	74 35	75 52	76 45	63 35	69 40	61 42	59 28	64 30	71 37	77 43	76 43	75 47	67 46	75 50	64.3 38.5	
WILMINGTON WSO ARPT	MID	MAX MIN	50 35	54 29	67 45	78 49	71 51	55 43	52 35	52 36	56 43	50 35	51 32	56 29	58 33	60 32	53 46	59 43	74 37	76 53	61 43	64 37	69 44	59 39	59 33	64 33	70 40	77 47	75 48	67 48	57 53	75 52	62.3 40.8	
WILMINGTON PORTER RSVR	MID	MAX MIN OBS	48 37	52 32	65 43	77 51	68 51	54 43	50 38	51 36	54 40	49 36	49 32	54 32	56 36	58 35	53 44	58 44	71 44	73 57	60 45	63 41	65 46	58 40	58 32	62 35	69 42	74 47	75 48	67 48	58 52	74 50	60.8 41.9	
SOUTHERN	02																																	
DOVER	17	MAX MIN	51 36	59 29	67 44	78 55	73 61	67 47	53 35	53 34	56 36	46 36	52 34	56 28	56 32	53 38	49 41	66 44	74 40	80 48	77 45	69 37	64 36	63 35	63 30	64 36	74 44	74 46	77 45	68 50	64 46	71 54	63.9 40.7	
GEORGETOWN 5 SW	08	MAX OBS MIN	75 43	47 30	55 42	69 45	78 57	73 47	56 34	52 33	51 36	57 40	53 37	51 26	57 30	61 30	62 36	53 43	61 40	72 49	78 52	60 34	65 35	68 43	61 31	56 35	64 40	74 47	74 44	75 50	62 50	58 51	62.6 40.3	
GREENWOOD 2 NE	18	MAX MIN	56 40	54 30	68 45	77 52	74 53	63 47	55 34	51 33	57 44	53 39	51 35	57 28	61 31	62 32	53 46	61 50	73 40	79 56	71 47	63 36	68 39	67 43	60 32	63 34	74 41	76 46	75 45	68 45	63 52	73 54	64.2 41.6	
LEWES	17	MAX MIN	58 40	53 35	69 45	77 54	75 63	66 49	56 38	52 39	59 39	48 45	58 38	55 31	56 42	54 38	54 47	58 50	74 44	74 60	63 48	63 43	69 43	67 50	58 41	62 40	70 45	70 50	69 52	66 53	61 53	65 55	63.1 45.7	
MILFORD 4 SE	17	MAX MIN OBS	58 39	54 31	67 44	77 53	75 63	63 47	55 36	52 35	58 44	55 41	49 36	53 29	55 35	55 33	53 45	61 50	73 41	78 57	74 47	63 38	70 39	67 43	60 33	64 37	72 41	69 47	70 47	67 52	62 52	71 53	63.3 42.9	

SEE REFERENCE NOTES FOLLOWING STATION INDEX
9

EVAPORATION AND WIND

MARYLAND AND
DELAWARE
APRIL 1989

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	-	82	56	60	92	28	55	22	66	53	62	25	51	43	40	49	36	28	37	34	9	9	41	22	14	9	17	24	41	15	11598	
	EVAP	-	-	1	0	22	18	8	11	-	11	11	15	15	17	19	16	0	15	14	18	17	17	13	22	17	18	15	17	19	24	19	4.538
	MAX	-	62	59	69	76	68	59	44	53	58	59	68	68	67	71	53	70	77	82	76	79	72	74	75	77	78	84	83	85	83	70.0	
	MIN	-	38	39	47	58	49	39	39	40	41	37	36	39	40	43	48	45	47	54	46	46	46	38	35	44	50	53	52	50	50	44.4	
UPPER MARLBORO 3 NNW																																	
	WIND	-	14	2	9	38	2	6	0	3	12	15	7	19	20	6	13	3	3	3	5	1	1	7	6	2	0	2	2	8	1	2178	
	EVAP	-	10	10	9	18	8	13	0	-	6	14	14	18	17	16	0	15	18	16	19	18	13	25	18	18	18	19	19	23	12	4.928	
	MAX	64	54	60	70	76	70	60	46	52	58	52	60	62	65	60	52	62	70	72	70	74	66	70	74	72	70	82	64	70	58	64.5	
	MIN	38	38	38	46	56	50	42	38	38	42	38	44	40	38	38	48	46	46	56	48	46	48	42	42	44	50	54	54	52	54	45.1	
ALLEGHENY PLATEAU 08																																	
SAVAGE RIVER DAM	WIND	-	-	-	62	49	*	112	40	55	94	80	40	37	62	29	25	68	49	52	68	34	55	77	52	53	33	27	42	36	31	15138	
	EVAP	-	-	-	14	7	7	18	8	-	27	-	50	28	13	-	5	29	4	1	9	27	20	14	52	8	1	2	16	12	10	4.778	
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
DELAWARE																																	
SOUTHERN 02																																	
GEORGETOWN 5 SW	WIND	136	154	96	146	206	130	76	86	108	94	11	46	50	49	91	75	68	122	79	67	40	96	31	78	52	33	29	46	52	45	2492	
	EVAP	68	36	27	10	12	25	12	73	10	22	24	12	24	6	37	5	29	22	37	15	26	26	41	8	21	19	19	21	24	49	7.60	
	MAX	77	53	63	67	76	75	58	50	55	63	59	62	67	70	70	64	-	74	83	70	74	75	70	63	71	78	83	79	72	80	69.0	
	MIN	46	36	39	47	58	50	41	37	37	43	37	36	40	41	42	44	-	48	55	46	47	43	58	43	43	49	54	52	51	51	45.3	

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 1989

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						T																									
		SN ON GND																															
SNOW HILL 4 N		SNOWFALL							T																								
		SN ON GND																															
CENTRAL EASTERN SHORE	02																																
DENTON 2 E		SNOWFALL							T																								
		SN ON GND																															
ROYAL OAK 2 SSW		SNOWFALL							T																								
		SN ON GND																															
LOWER SOUTHERN PATUXENT RIVER	03																																
		SNOWFALL						T																									
		SN ON GND																															
APPALACHIAN MOUNTAIN	07																																
FROSTBURG 2		SNOWFALL	1.5	.1				T		.5	T	.5			T																		
		SN ON GND	1	T						T	T																						
ALLEGHENY PLATEAU	08																																
MC HENRY 2 NW		SNOWFALL	2.5	.5				.5		3.0					T	.5																	
		SN ON GND	2	2				T		1					T																		
MERRILL		SNOWFALL																															
		SN ON GND																															
OAKLAND 1 SE		SNOWFALL	1.0				T	T	T	1.0	T			1.0																			
		SN ON GND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAVAGE RIVER DAM		SNOWFALL	.5	T				T				T			T																		
		SN ON GND	1	T				T				T			T																		
DELAWARE																																	

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 1989

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	H	ANNAPOLIS POLICE BRKS
ASSATEAGUE ISLAND NATL	0033	01	WORCESTER	38 14	75 8W	7	07	07		H	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 C1	0047	06	BALTO CITY	39 17	76 37W	91	MID	MID		C	C	OCMI COMMANDING OFFICER
BELTSVILLE	0700	04	PRN GEORGES	39 2	76 53W	120	08	08	08	H	H	U S DEPT OF AGRICULTURE
BENSON POLICE BARRACKS	0732	06	HARFORD	39 30	76 23W	365	17	17		H	H	MARYLAND STATE POLICE
BOYDS 2 NW	1032	06	MONTGOMERY	39 13	77 20W	580	18	18		H	H	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		C	H	WASTEWATER TRMT PLANT
CATOCTIN MOUNTAIN PARK	1530	06	FREDERICK	39 39	77 29W	1610	17	17		C	H	CATOCTIN MOUNTAIN PARK
CHESTERTOWN	1750	09	KENT	39 13	76 4W	40	23	23		H	H	THOMAS W ELIASON JR
CLARKSVILLE 3 NNE	1862	06	HOWARD	39 15	76 56W	365	17	17		C	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				SUSQUEHANNA ELECTRIC CO
CRISFIELD SOMERS COVE	2215	01	SOMERSET	37 59	75 52W	8	17	17				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				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				JOHN W HARNE
EMMITTSBURG 2 SE	2906	06	FREDERICK	39 41	77 18W	416	17	17		H		MRS LUCILLE K BEALE
FREDERICK POLICE BRKS	3348	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				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				WASH SUB SANY COMM
MC HENRY 2 NW	5832	08	GARRETT	39 35	79 22W	2680	08	08		C	H	JOSEPH F JOHANNING
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
MILLERS 4 NE	5934	06	CARROLL	39 43	76 48W	860	18	18		C	H	ROBERT P MILLER
MILLINGTON 1 SE	5985	05	KENT	39 16	75 52W	30	18	18				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 MARY'S	38 20	76 25W	38	MID	MID		C	H	NAVAL WEATHER SERVICE
POTOMAC FILTER PLANT	7272	06	MONTGOMERY	39 2	77 15W	270		08				POTOMAC WATER FILT PLT
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	17	17				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				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		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
TALL TIMBERS	8757	03	ST MARYS	38 10	76 33W	12	17	17		H		RICHARD A EVERETT
TOWSON	8877	06	BALTIMORE	39 23	76 34W	390	18	18				BENDIX FRIEZ
UNIONVILLE	9030	06	FREDERICK	39 27	77 11W	430	18	18		C		CAROLINE R VON EIFF
UPPER MARLBORO 3 NNW	9070	04	PRN GEORGES	38 52	76 47W	98	08	08		H		TOBACCO EXP FARM
VIENNA	9140	02	DORCHESTER	38 29	75 50W	12	18	18				DELMARVA POWER & LIGHT
WESTMINSTER POLICE BRK	9440	06	CARROLL	39 33	76 58W	765	17	17		H		MARYLAND STATE POLICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
APRIL 1989

APRIL 1989

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER
							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52W	460	18	18		H	JOHN A HILTZ
DELAWARE											
DOVER	2730	02	KENT	39 9	75 31W	30	17	17		H	STATE DIV OF HIGHWAYS
GEORGETOWN 5 SW	3570	02	SUSSEX	38 38	75 27W	45	08	08	08	C	UNIV OF DEL SUBSTATION
GREENWOOD 2 NE	3595	02	SUSSEX	38 50	75 35W	45	18	18		H	DANIEL M SWARTZENTRUBER
LEWES	5320	02	SUSSEX	38 46	75 8W	15	17	17		H	BOARD OF PUBLIC WORKS
MIDDLETOWN 3 E	5852	01	NEW CASTLE	39 27	75 40W	55	17	17		H	INACTIVE 09/01/88
MILFORD 4 SE	5915	02	SUSSEX	38 54	75 28W	30	17	17		H	DAVID S SCHLOTT
NEWARK UNIVERSITY FARM	6410	01	NEW CASTLE	39 40	75 44W	90	17	17	17	C	UNIV OF DEL AGRIC FARM
WILMINGTON WSO ARPT	R 9595	01	NEW CASTLE	39 40	75 36W	79	MID	MID		C HJ	NATL WEATHER SERVICE
WILMINGTON PORTER RSVR	9605	01	NEW CASTLE	39 46	75 32W	274	MID	MID		H	WATER DEPARTMENT

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

MARYLAND AND
DELAWARE
APRIL 1989

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. The data are also available in digital form on magnetic tape and diskette.

SUBSCRIPTION, PRICE AND ORDERING INFORMATION AVAILABLE FROM:

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

USCOMM-NOAA-ASHEVILLE, N.C. APRIL 1989-0585

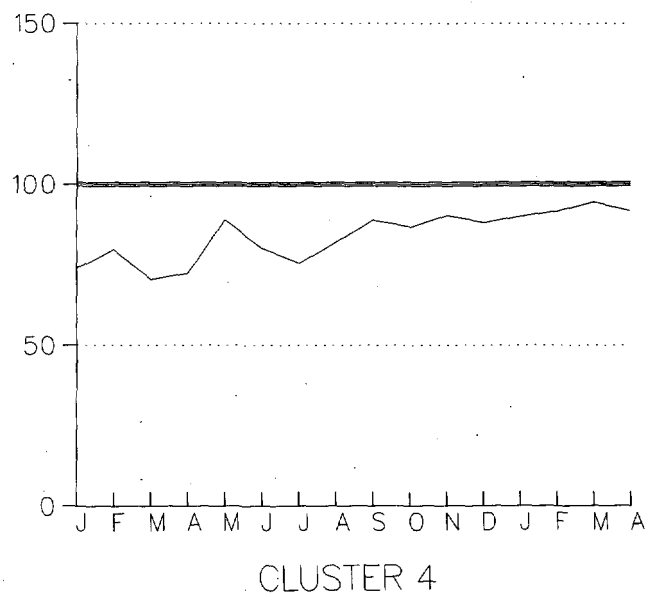
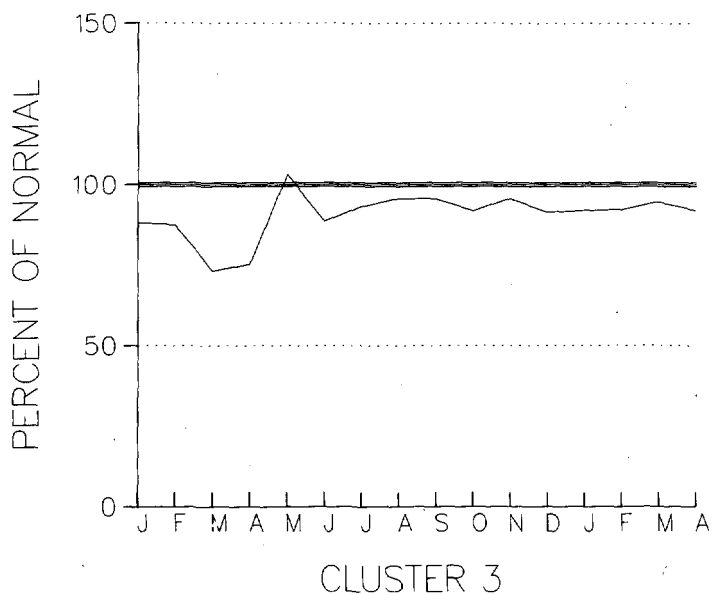
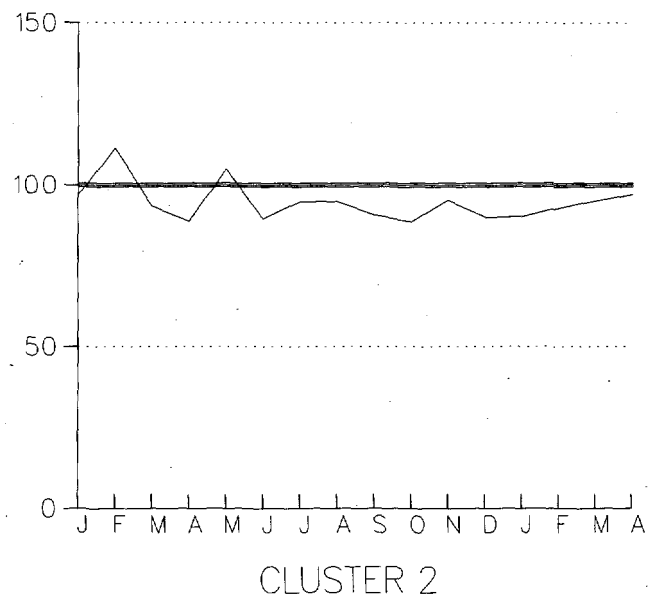
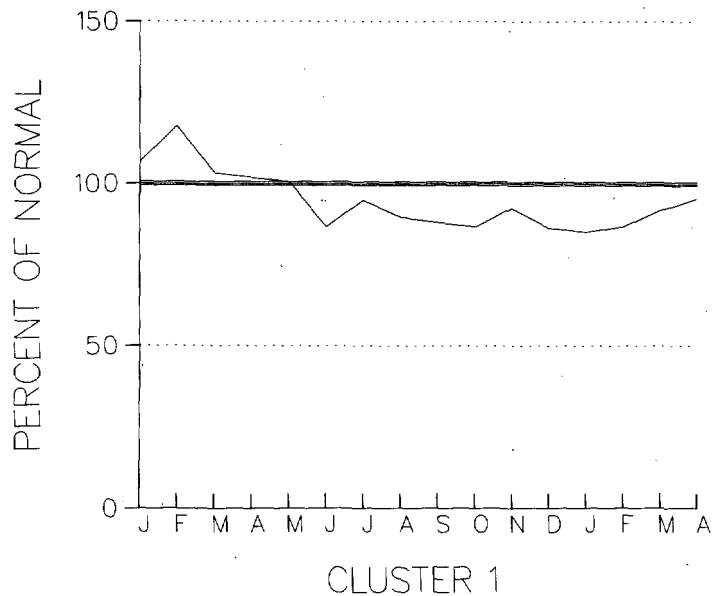
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980) FOR THE LAST 16 MONTHS ENDING APRIL 1989 MARYLAND

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

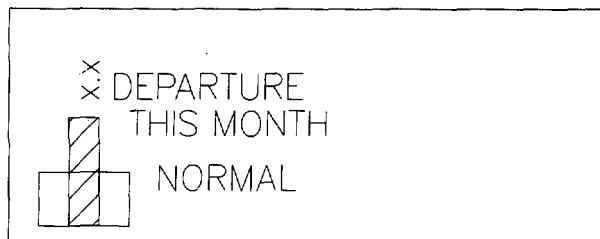
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



TEMPERATURE AND PRECIPITATION

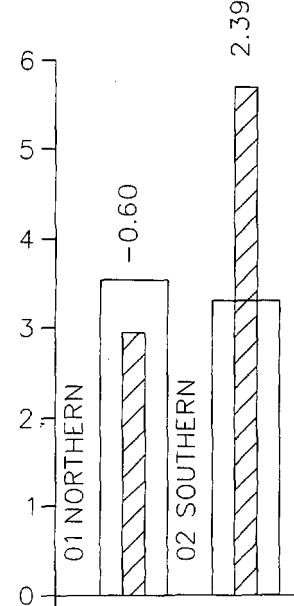
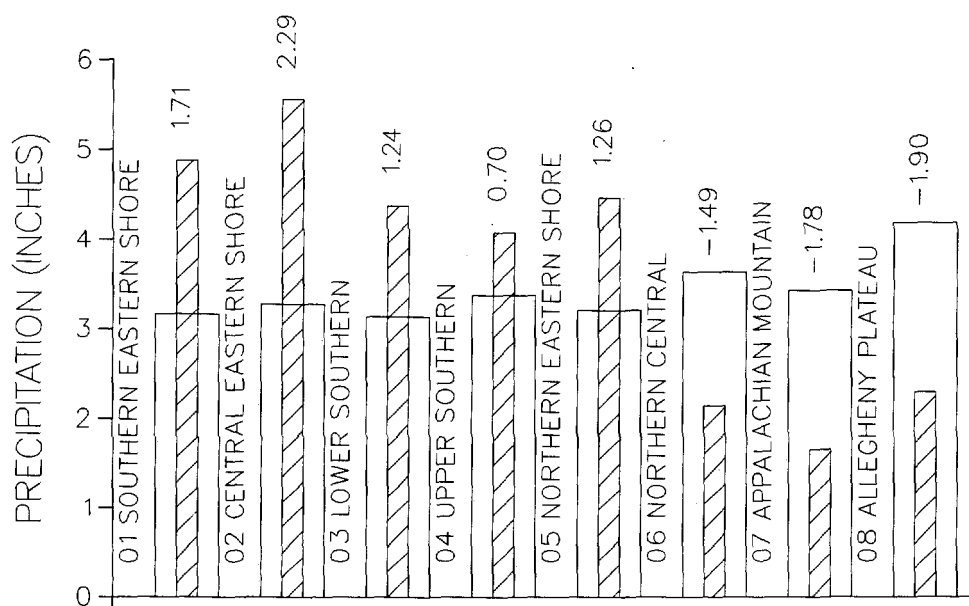
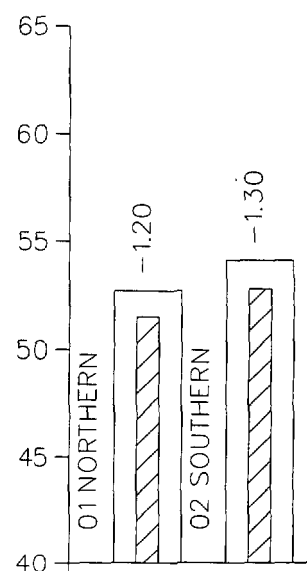
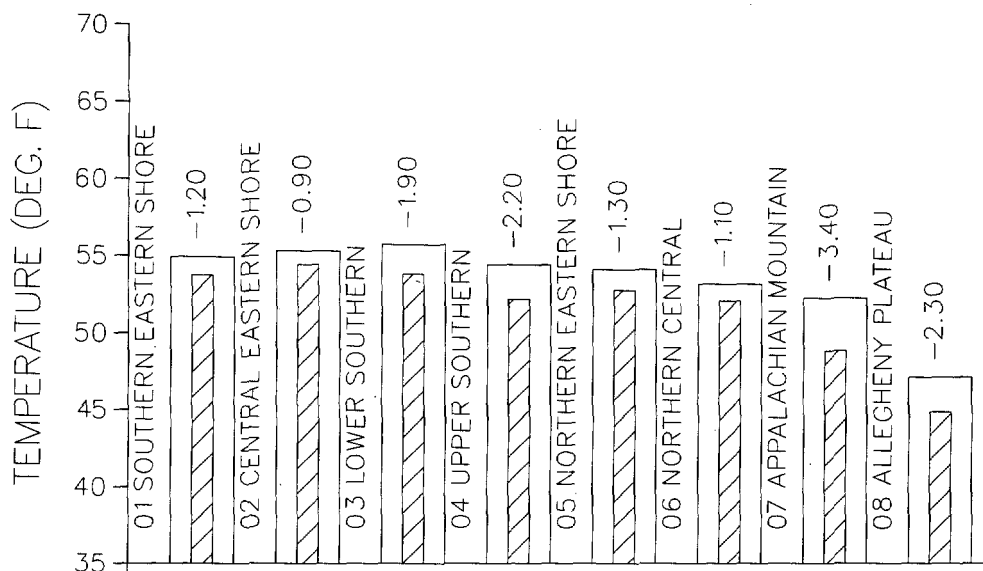
DIVISIONAL AVERAGES AND DEPARTURES FROM NORMAL (1951-1980)

APRIL 1989



MARYLAND

DELAWARE



DIVISIONS

DIVISIONS

MEAN MONTHLY PRECIPITATION FREQUENCY DISTRIBUTION FOR PERIOD OF RECORD 1931-1989 FOR MONTH OF APRIL MARYLAND

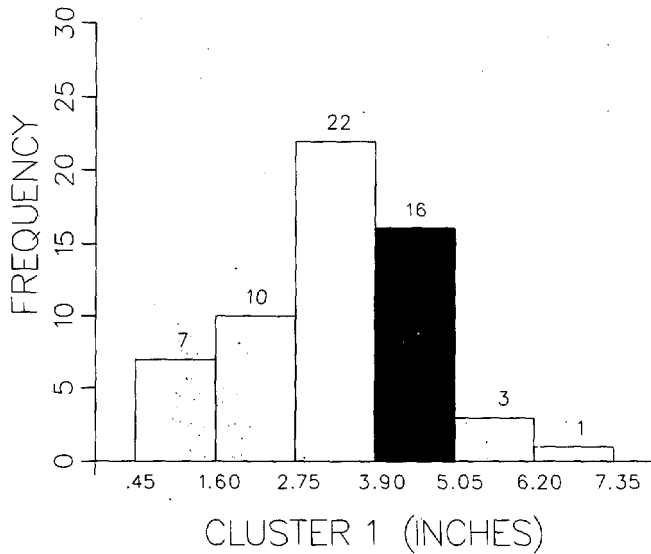
CLUSTER 1 -DIVISION(S):
SOUTHERN EASTERN SHORE 01
CENTRAL EASTERN SHORE 02
LOWER SOUTHERN 03

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

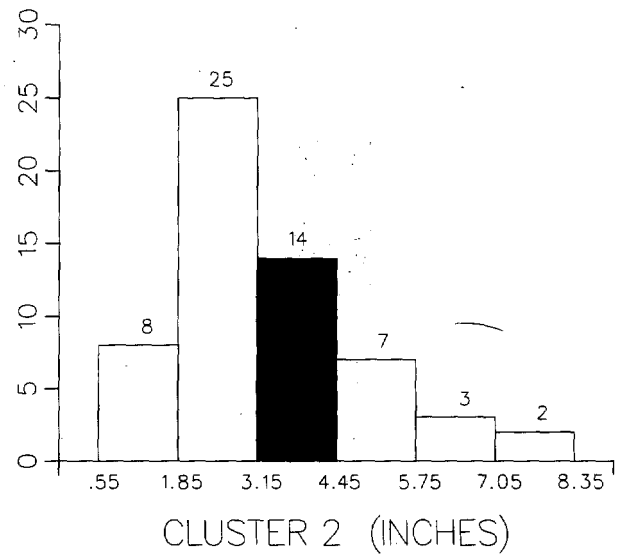
CLUSTER 3 -DIVISION(S):
NORTHERN CENTRAL 06
APPALACHIAN MOUNTAIN 07

CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08

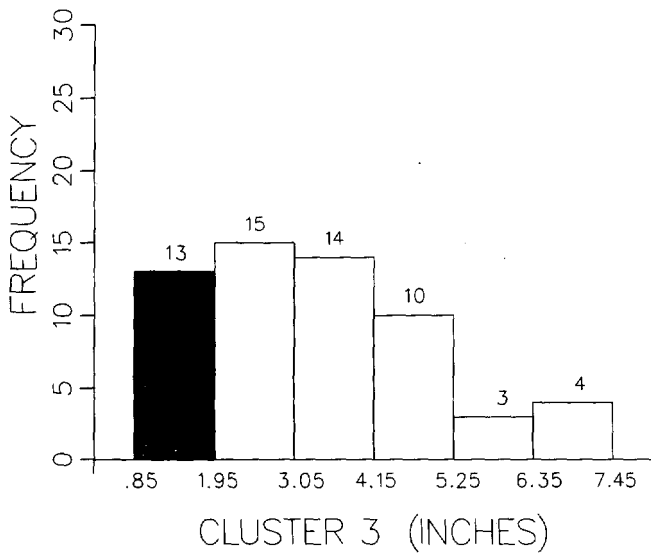
THIS MONTHS VALUE = 4.93, RANK = # 5 WETTEST



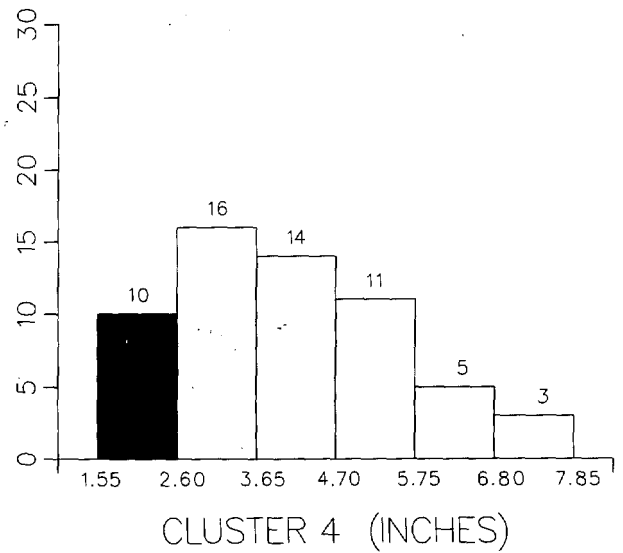
THIS MONTHS VALUE = 4.26, RANK = # 16 WETTEST



THIS MONTHS VALUE = 1.89, RANK = # 13 DRIEST



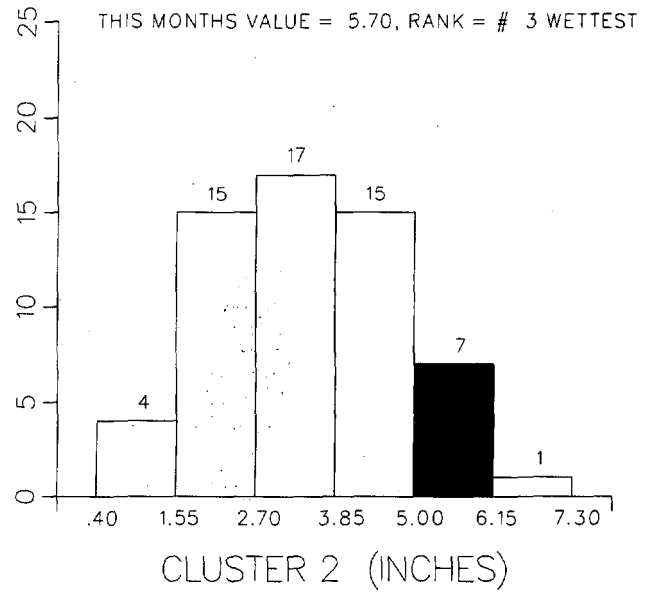
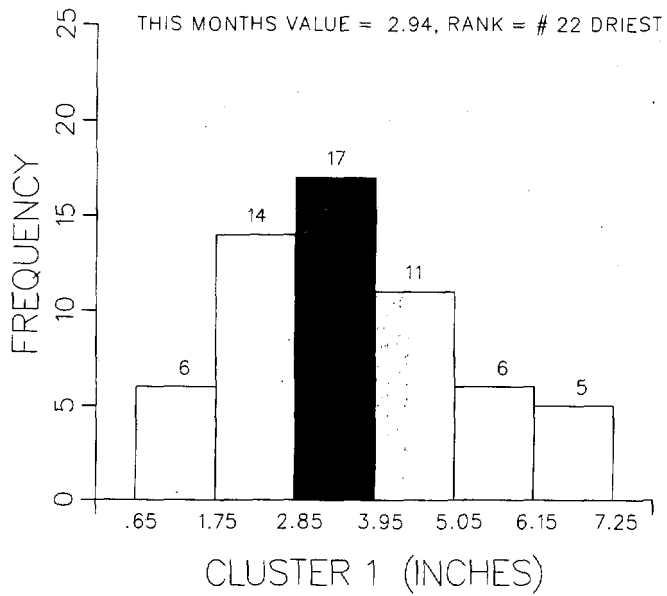
THIS MONTHS VALUE = 2.29, RANK = # 8 DRIEST



MEAN MONTHLY PRECIPITATION FREQUENCY DISTRIBUTION
FOR PERIOD OF RECORD 1931-1989
FOR MONTH OF APRIL
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



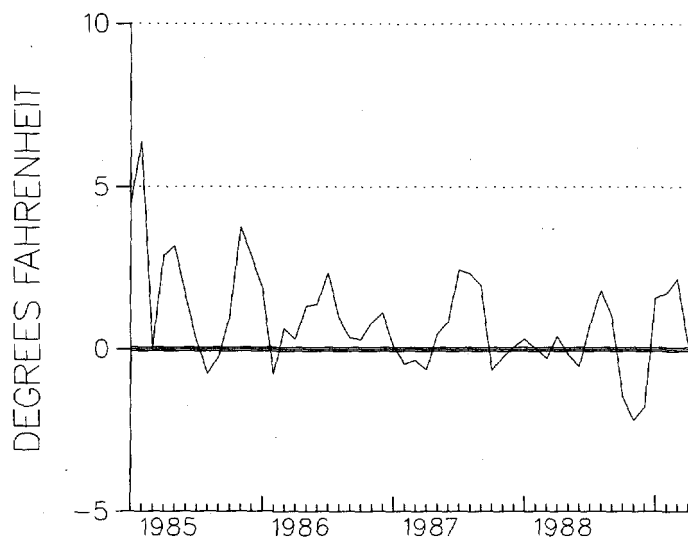
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)
THREE MONTH RUNNING MEAN
FOR THE 52 MONTHS ENDING WITH APRIL 1989 DATA
MARYLAND

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

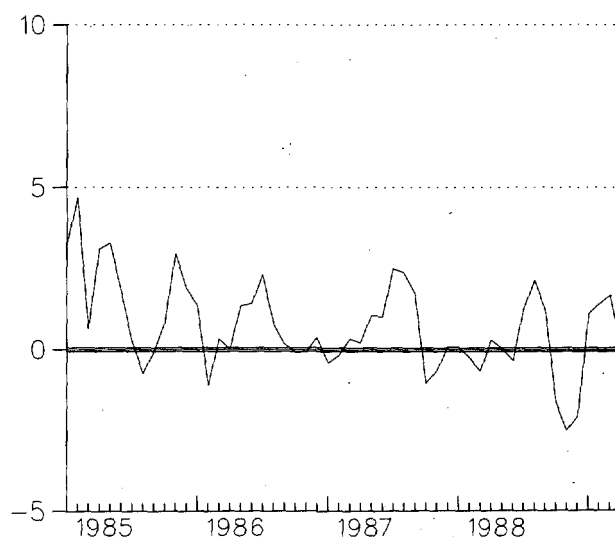
CLUSTER 2 -DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

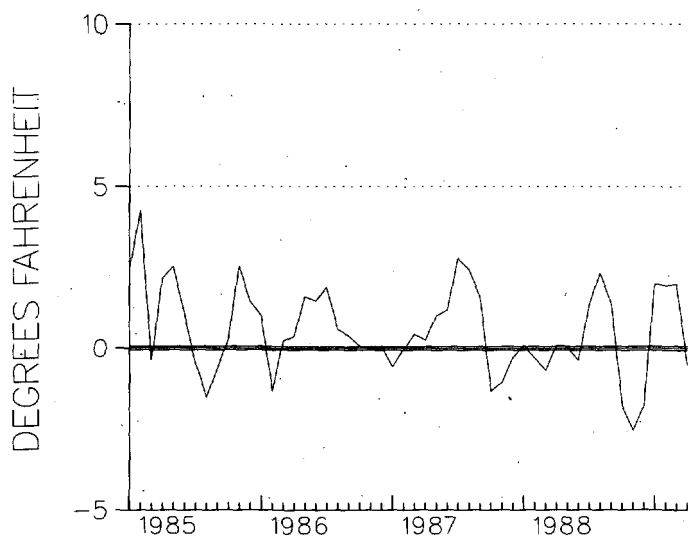
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



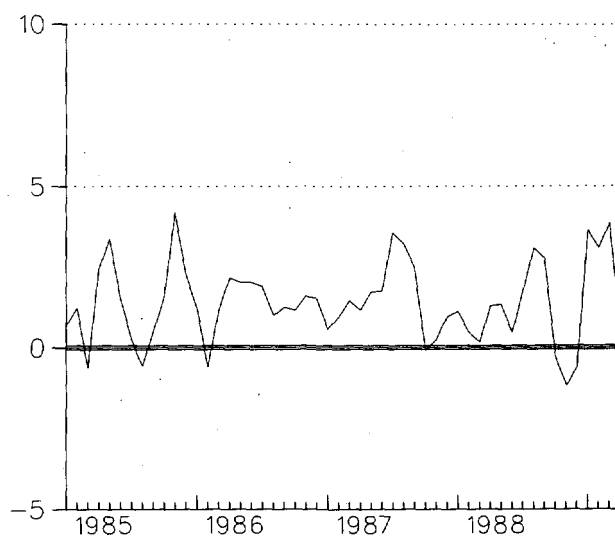
CLUSTER 1



CLUSTER 2



CLUSTER 3



CLUSTER 4

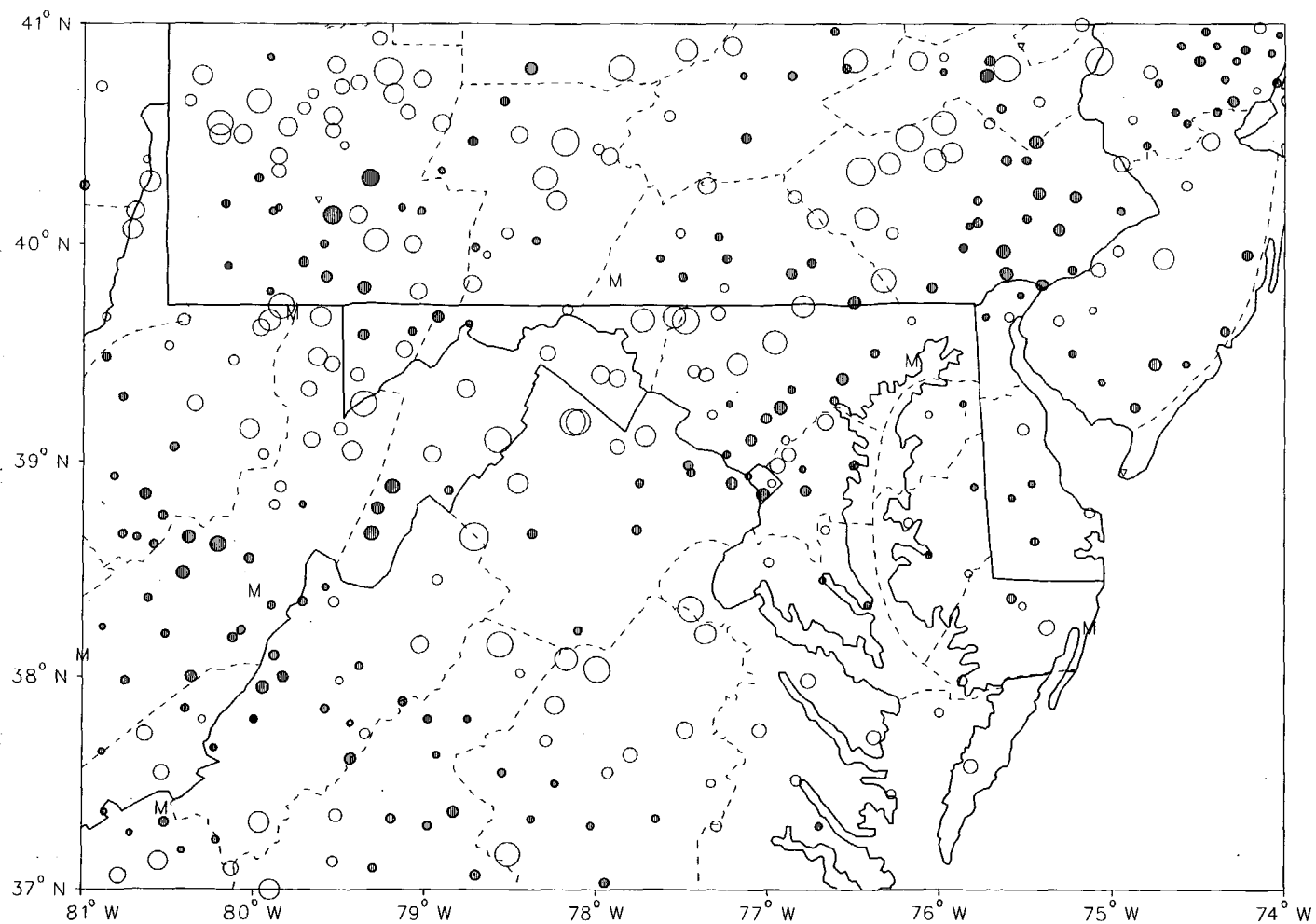
MONTHLY PRECIPITATION DEPARTURE FROM
THE DIVISIONAL AVERAGE FOR
APRIL 1989
MARYLAND & DELAWARE

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

18 - MARYLAND & D.C.

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29.5 AND 45.5 DEGS.

STATUTE MILES
0 10 20 30 40 50

STATION LEGEND

DATA PUBLISHED IN:

- CLIMATOLOGICAL DATA
- HOURLY PRECIPITATION DATA
- △ CLIMATOLOGICAL DATA AND HOURLY PRECIPITATION DATA

For further information, refer to the station index and references notes.

DIVISIONS

- 1 SOUTHERN EASTERN SHORE
- 2 CENTRAL EASTERN SHORE
- 3 LOWER SOUTHERN
- 4 UPPER SOUTHERN
- 5 NORTHERN EASTERN SHORE
- 6 NORTHERN CENTRAL
- 7 APPALACHIAN MOUNTAIN
- 8 ALLEGHENY PLATEAU

The map displays the state of Maryland and the District of Columbia, divided into eight numbered regions. Major cities and locations are marked with symbols corresponding to the station legend. The map includes a scale bar in statute miles and coordinate markings along the edges.

DATA PUBLISHED IN:

- CLIMATOLOGICAL DATA
- HOURLY PRECIPITATION DATA
- △ CLIMATOLOGICAL DATA AND HOURLY PRECIPITATION DATA

For further information, refer to the station index and references notes.

DIVISIONS

- 1 SOUTHERN EASTERN SHORE
2 CENTRAL EASTERN SHORE
3 LOWER SOUTHERN
4 UPPER SOUTHERN
5 NORTHERN EASTERN SHORE
6 NORTHERN CENTRAL
7 APPALACHIAN MOUNTAIN
8 ALLEGHENY PLATEAU

40.0 75.0 40.0

07 - DELAWARE

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29.5 AND 45.5 DEGS.

STATUTE MILES



STATION LEGEND

DATA PUBLISHED IN:

- CLIMATOLOGICAL DATA
- HOURLY PRECIPITATION DATA
- △ CLIMATOLOGICAL DATA AND HOURLY PRECIPITATION DATA

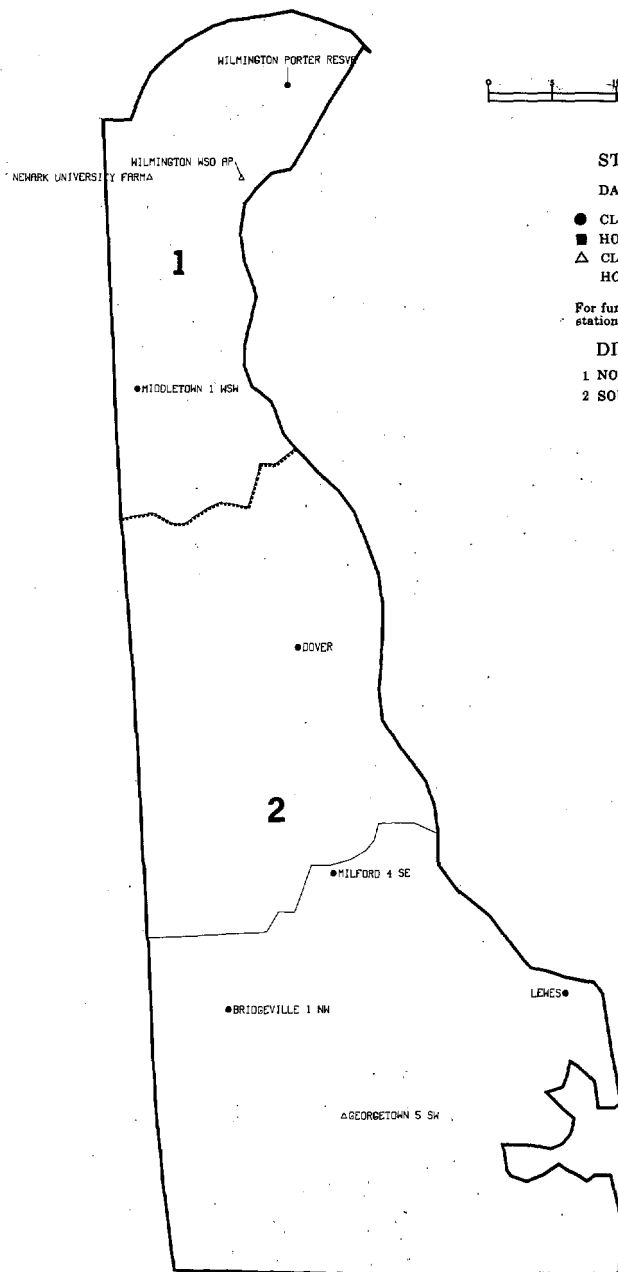
For further information, refer to the station index and references notes.

DIVISIONS

- 1 NORTHERN
- 2 SOUTHERN

39.0 39.0

38.0 75.0 38.0



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HOURLY PRECIPITATION DATA

NORTH CAROLINA

JANUARY 1987

VOLUME 37 NUMBER 1



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