



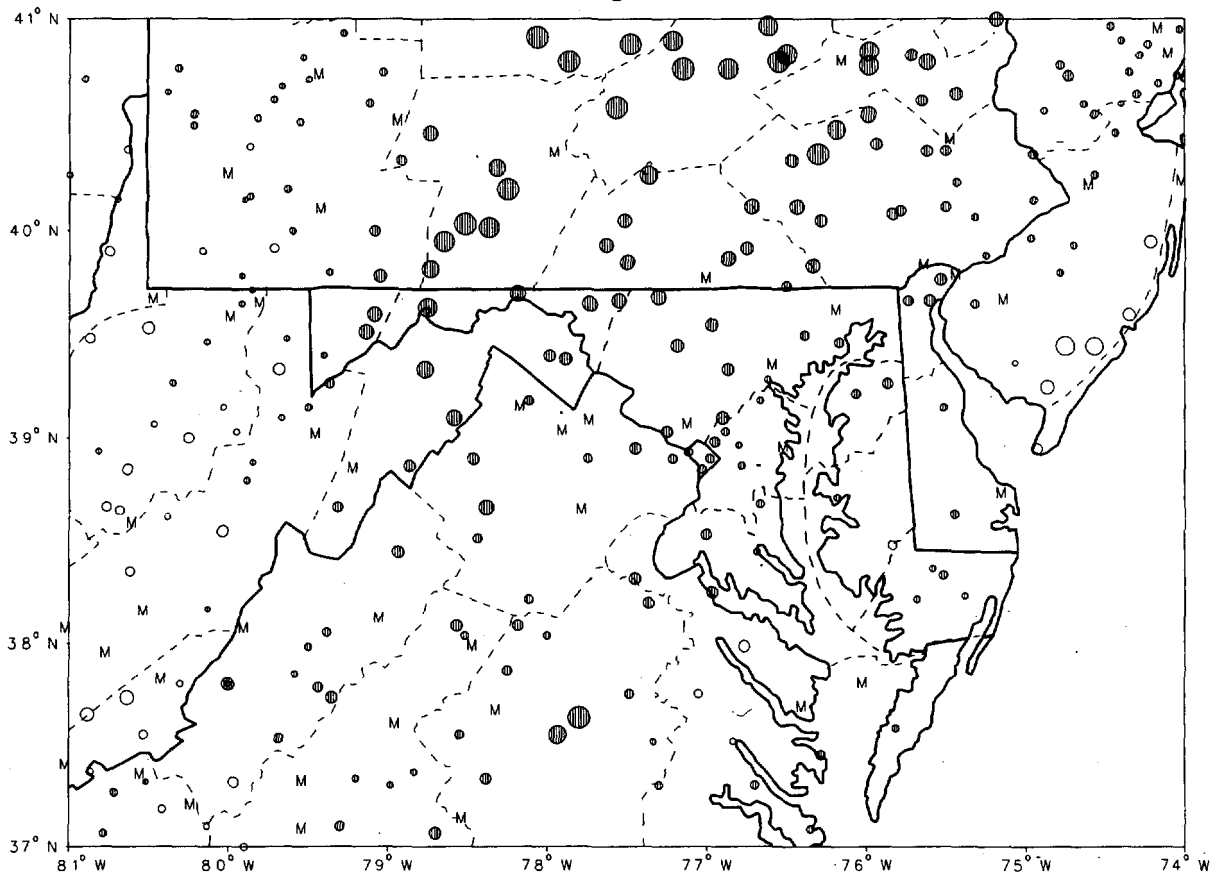
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CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

APRIL 1993
VOLUME 97 NUMBER 4

MONTHLY PRECIPITATION DEPARTURE FROM
INDIVIDUAL STATION NORMALS (1961-1990)

- 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 (NOAA). IT IS COMPILED USING INFORMATION FROM WEATHER OBSERVING SITES SUPERVISED BY NOAA/NATIONAL WEATHER SERVICE AND RECEIVED AT THE NATIONAL CLIMATIC DATA CENTER (NCDC), ASHEVILLE, NORTH CAROLINA 28801."

Kenneth D. Haden

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

noaa

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ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
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ASHEVILLE NORTH CAROLINA

TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND AND
DELAWARE
APRIL 1993

MARYLAND
 HIGHEST TEMPERATURE 85
 LOWEST TEMPERATURE 23
 GREATEST TOTAL PRECIPITATION 8.33
 LEAST TOTAL PRECIPITATION 2.90
 GREATEST 1 DAY PRECIPITATION 2.10
 GREATEST TOTAL SNOWFALL 7.5
 GREATEST DEPTH OF SNOW OR ICE 4

DELAWARE
 HIGHEST TEMPERATURE 79
 LOWEST TEMPERATURE 30
 GREATEST TOTAL PRECIPITATION 7.15
 LEAST TOTAL PRECIPITATION 3.81
 GREATEST 1 DAY PRECIPITATION 2.45

APRIL 25
 APRIL 7+

APRIL 17
 APRIL 22

APRIL 25
 APRIL 5
 APRIL 10

CUMBERLAND 2
 2 STATIONS
 CUMBERLAND 2
 ASSATEAGUE IS NATL SEA
 EDMONT
 MC HENRY 2 NW
 MC HENRY 2 NW

2 STATIONS
 2 STATIONS
 WILMINGTON PORTER RSVR
 GREENWOOD 2 NE
 WILMINGTON PORTER RSVR

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
APRIL 1993

STATION	TEMPERATURE (°F)										PRECIPITATION (IN)											
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW SLEET			
											90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE
MARYLAND																						
SOUTHERN EASTERN SHORE 01																						
ASSATEAGUE IS NATL SEA	56.7	44.1	50.3	.2	65.1	29.6	37.5	435	0	0	0	0	0	3.90	.48	.99	10	.0	0	6	1	0
PRINCESS ANNE	66.7	41.1	54.2	.2	78.2	29.6	29.6	321	3	0	0	0	0	3.75	.00	.00	0	.0	0	7	2	0
SALISBURY	66.6	44.4	55.3	.2	78.2	29.6	33.7	291	5	0	0	0	0	4.83	.53	.93	22	.0	0	7	4	0
SALISBURY FAA ARPT	64.9	41.9	53.4	.3	79.9	32.5	34.5	345	8	0	0	2	0	4.53	.33	1.20	16	.0	0	7	4	0
SNOW HILL 4 N	65.0	42.1	53.6	.3	79.9	32.5	30.4	338	1	0	0	3	0	3.57	.36	.86	10	.0	0	5	3	0
--DIVISIONAL DATA-->																						
CENTRAL EASTERN SHORE 02																						
ROYAL OAK 2 SSW	63.5	45.2	54.4	.5	77.2	35.8	35.8	315	1	0	0	0	0	4.03	.61	.0	0	.0	0	8	3	0
VIENNA	66.9	42.3	54.6	.8	77.1	30.2	29.9	306	2	0	0	1	0	3.02	.37	.73	17	.0	0	6	2	0
--DIVISIONAL DATA-->																						
LOWER SOUTHERN 03																						
LA PLATA 1 W	67.6	43.2	55.4	.4	84.1	31.8	31.8	297	16	0	0	3	0	5.04	1.90	1.38	22	.0	0	7	4	3
MECHANICSVILLE 5 NE	65.5	41.9	53.7	.7	84.2	29.8	33.5	335	6	0	0	4	0	3.90	.49	1.18	16	.0	0	8	4	1
OHINGS FERRY LANDING	65.8	42.3	54.1	.5	81.2	30.8	33.1	331	9	0	0	3	0	4.36	1.15	1.05	22	.0	0	7	3	1
--DIVISIONAL DATA-->																						
UPPER SOUTHERN 04																						
ANNAPOLIS POLICE BRKS					74.16	34.8	34.8	369	0	0	0	0	0			1.70	16	.0	0	6	2	1
BALTIMORE WSO ARPT	R 63.3	41.7	52.5	.9	81.2	30.4	36.9	369	0	0	0	2	0	3.68	.59	.81	10	.0	0	8	4	0
BELTSVILLE	63.1	40.6	51.9	.3	81.3	31.8	39.8	398	11	0	0	4	0	4.99	1.09	1.23	22	.0	0	7	4	2
COLLEGE PARK	65.5	43.2	54.4	.4	83.9	32.7	33.3	333	21	0	0	1	0	5.20	1.94	1.49	22	.0	0	8	4	2
DALECARLIA RESERVOIR	66.1				83.9	32.7	33.3	333	0	0	0	0	0	4.84	1.34	1.40	16	.0	0	7	4	1
GLENN DALE BELL STN	64.8	36.9	50.9	2.7	84.2	24.8	42.8	428	6	0	0	12	0	3.89	.46	.97	22	.0	0	6	4	0
LAUREL 3 W	65.5	39.6	52.6	1.4	80.2	30.5	36.5	365	0	0	0	4	0	6.39	2.98	1.60	10	.0	0	8	6	3
NATIONAL ARBORETUM DC	65.2	43.1	54.2	.2	83.2	33.8	33.4	334	16	0	0	0	0	4.58	1.31	1.34	22	.0	0	8	4	1
UPPER MARLBORO 3 NNW	63.6	41.8	52.7	.3	81.2	31.8	37.8	378	13	0	0	3	0	4.18	.80	.94	17	.0	0	8	4	0
--DIVISIONAL DATA-->																						
NORTHERN EASTERN SHORE 05																						
CHESTERTOWN	64.9	43.1	54.0	.6	80.2	32.4	32.7	327	3	0	0	1	0	4.75	1.51	1.20	1	.0	0	8	4	2
MILLINGTON 1 SE	64.9	42.1	53.5	1.1	78.2	30.8	34.3	343	5	0	0	3	0	5.38	2.05	1.41	16	.0	0	7	4	1
--DIVISIONAL DATA-->																						
NORTHERN CENTRAL 06																						
ABERDEEN PHILLIPS FIEL	63.9	43.6	53.8	.0	77.2	31.4	33.6	336	7	0	0	2	0	5.44	1.88	.0	0	.0	0	5	3	0
BALTIMORE CITY	R 63.1	43.4	53.3	3.3	84.2	34.4	35.0	350	7	0	0	0	0	3.80	.56	.89	10	.0	0	6	5	0
BENSON POLICE BARRACKS	68.1	42.3	55.2	2.3	82.9	31.4	29.5	295	11	0	0	2	0	5.85	1.86	1.40	22	.0	0	8	5	2
CATOCTIN MOUNTAIN PARK	63.7	39.4	51.6		77.2	28.6	39.5	395	0	0	0	8	0	7.54	2.07	2.07	16	.0	0	10	5	3
CLARKSVILLE 3 NNE	65.2	38.4	51.8		79.2	23.7	39.0	390	3	0	0	8	0	6.40	1.65	1.65	16	.0	0	8	6	2
CONOWINGO DAM																						
DAMASCUS 2 SSW	62.3	39.9	51.1		80.2	25.7	41.1	411	2	0	0	6	0	6.67	1.47	1.47	16	2.5	0	8	5	4
EMMITTSBURG 2 SE	64.3	39.0	51.7	.2	77.2	26.5	39.5	395	2	0	0	6	0	8.10	4.33	4.4	22	4.0	0	4	4	1
FREDERICK POLICE BRKS	65.8	42.6	54.2		79.2	33.7	32.0	320	3	0	0	0	0	6.29	1.50	1.50	22	.0	0	9	5	3
MILLERS 4 NE	62.4	40.4	51.4		79.2	30.5	40.2	402	0	0	0	3	0	6.95	1.75	1.75	22	.0	0	9	5	4
ROCKVILLE 1 NE	63.4	42.5	53.0	.6	82.2	34.2	36.1	361	6	0	0	0	0	5.50	1.87	1.87	16	.0	0	6	4	2
TOWSON																						
UNIONVILLE	64.8	38.1	51.5	2.7	79.2	25.7	39.8	398	0	0	0	9	0	6.35	3.06	2.07	22	.0	0	9	4	3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
APRIL 1993

STATION	TEMPERATURE (°F)											PRECIPITATION (IN)													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW SLEET									
									90 OR ABOVE MAX	32 OR BELOW MIN	32 OR BELOW MIN	0 OR BELOW MIN				TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE				
WESTMINSTER POL BRKS WOODSTOCK	65.0 55.5	42.0 40.4	53.5 53.0	1.6 .4	81 25	30 28	4 7+	342 358	3	0	0	2	0	6.49 6.30	3.02 2.80	1.55 1.42	16 16	.0 T	T		9 6	4 5	3 4		
--DIVISIONAL DATA-->			52.7	.1										6.35	2.82			.7							
APPALACHIAN MOUNTAIN 07																									
CUMBERLAND 2 FROSTBURG 2 HAGERSTOWN HANCOCK	67.2 56.1 62.4 64.9	38.6 35.5 38.9 36.9	52.9 45.8 50.7 50.9	-.7 -1.1 .5	85 76 80 84	25 26 26 26	31 27 28 26	7+ 4 4 5	356 571 423 418	1	0	0	4	0	8.33 7.76 7.37 7.26	5.14	1.78 1.59 2.07 .90	16 17 17 27+	M T M T	.0 1.5 .0 .0	T T T T	11 11 10 11	8 6 6 7	3 2 3 0	
--DIVISIONAL DATA-->			50.1	-1.4										7.68	4.24			.8							
ALLEGHENY PLATEAU 08																									
MC HENRY 2 NW OAKLAND 1 SE SAVAGE RIVER DAM	57.0 62.0 59.5	34.4 33.9 34.7	45.7 48.0 47.1	1.3 -1.6	80 79 79	16 15 30	24 23 28	4 4 7	569 505 530	0	0	0	16	0	6.05 4.81 7.33	.47 .98 3.92	1.12 1.98 1.76	10 10 17	M T M	7.5 1.8 .0	4 T T	22 9 10	12 9 5	7 5 5	1 0 4
--DIVISIONAL DATA-->			46.9	.1										6.06	1.99			4.7							
DELAWARE																									
NORTHERN 01																									
NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT WILMINGTON PORTER RSVR	63.7 63.1 61.6	40.5 42.4 42.9	52.1 52.8 52.3	-.5 .6 .8	78 79 77	20 25 25	31 32 35	8+ 8+ 4	382 360 371	0	0	0	4	0	5.42 5.87 7.15	1.93 2.48 3.14	1.62 1.95 2.45	10 11 10	.0 .0 .0	T T T	6 5 6	4 5 5	3 3 3		
--DIVISIONAL DATA-->			52.4	.2										6.15	2.58			.0							
SOUTHERN 02																									
DOVER GEORGETOWN 5 SW GREENWOOD 2 NE LEWES	62.9 63.1 63.5 62.3	43.5 40.3 42.0 43.8	53.2 51.7 52.8 53.1	-.9 -.6 -.2 -.7	76 78 78 79	16+ 16 25+ 25	32 30 30 35	4 5 5+ 5+	355 393 361 355	10	0	0	1	0	4.42 4.81 3.81 3.54	.92 1.37	1.14 1.32 1.88 1.09	17 22 10 10	.0 .0 .0 .0	T T T T	6 7 5 6	5 4 2 9	1 1 0 1		
--DIVISIONAL DATA-->			52.7	-.7										4.35	.87			.0							

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
APRIL 1993

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 IS NATL SEA	2.90	.41	.05	.02						.99		.11				.44	.01					.33	.06					.44	.04				
PRINCESS ANNE	3.75	.35	.02	.12						.52	.04	.15			*	1.11					.78	.06					.43	.23					
SALISBURY	3.83	.49	.01	.05						.52	.02	.09	T		.24	.70					T	.93					.50	.20					
SALISBURY FAA ARPT	4.53	.37	.08	.02						.03	.70	.13				1.20					1.02	.48					.50	T					
SNOW HILL 4 N	3.57	.81	.02	.05						T	.86	.06	.03			.06	.45					.84	.06				.30	.09				.00	
CENTRAL EASTERN SHORE																																	
02																																	
ROYAL OAK 2 SSW	4.03	.25	.65	.11						.44	.34	.11			*	.85					.03	.61					.64						
VIENNA	3.02	.25								.62	.19	.08				.20	.73				*	.62					.26	.07					
LOWER SOUTHERN																																	
03																																	
LA PLATA 1 W	5.04	.18	.19	.05						1.20	.03	.06				1.16					.16	1.38					.63						
MECHANICVILLE 5 NE	3.90	.17	.30	.11						T	.53	.05	.06			1.18	T				.21	.61					.68						
OHINGS FERRY LANDING	4.36	.24	.36	.07						.49	.49	.07				.98	T				.04	1.05					.57						
UPPER SOUTHERN																																	
04																																	
ANNAPOLIS POLICE BRKS	M	.28	.28	.11						.47	.04	.58				1.70																	
BALTIMORE WSO ARPT	R	3.68	.46	.30						.18	.81	.04	.01			.52	T				.71	.15			T		.50						
BELTSVILLE		4.39	.45	.22	*		.14			.19	.51	.03		T		1.07					1.23	.02					.53						
COLLEGE PARK		5.20	.44	.21						.44	.64	.02	T			1.21					1.49	.01			T		.55						
DALECARLIA RESERVOIR		4.84	.43	.69						.71	.15	.02				1.40	.04				.04	.91					.45						
GLENN DALE BELL STN		3.89	.43	.30						.80	.03	.05				.70	.02				T	.97	.02	.03			.57						
LAUREL 3 W		6.39	.85	.17						.04	1.60	.05				1.34	.10				1.10	.58					.56						
NATIONAL ARBORETUM DC		4.58	.28	.13	.55					.25	.47	.04				.90					1.34	.02					.60						
UPPER MARLBORO 3 NNW		4.18	.34	.11	.25					.13	.83	.05				.94					.85						.68						
NORTHERN EASTERN SHORE																																	
05																																	
CHESTERTOWN		4.75	1.20	.13	.03					.05	1.06	.04	.11			T	.96				.22	.37					.58	T					
NORTHERN CENTRAL																																	
06																																	
ABERDEEN PHILLIPS FIEL		5.44	.60	.46			T			*	*	2.17				.88	T				T	.85					.46	.02					
BALTIMORE CITY	R	3.80	.70	.08						.15	.89	.03	.03			.55					.79	.08					.50						
BENSON POLICE BARRACKS		5.85	.73	.47	.14					.95	.21	.09			.05	.05	.03			.02		1.40	.05				.50						
CATOCTIN MOUNTAIN PARK		7.54	.74	.35						.01	1.14	.47	.38			2.07	.37				.25	1.22				.52	.02						
CLARKSVILLE 3 NNE		6.40	.69	.64						T	.95	.34	.17			1.65	.08				T	1.36				.50							
CONOWINGO DAM	M	-	-	-						-	-	-			-	-				-	-				.02		.27						
DAMASCUS 2 SSW		6.67	1.36	.08						1.27	.01	.19				1.47	.31				.71	1.00					.20						
EMMITSBURG 2 SE		8.10	1.40	.70						.10	*	1.60			T	*	1.80				*	2.30					.20						
FREDERICK POLICE BRKS		6.29	.92	.70						1.10	.24	.14				1.03	.46				.13	1.50		.02			.05						
MILLERS 4 NE		6.95	.80	1.06	.02					T	1.26	.19	.12			T	1.04	.22				.05	1.75			T		.42	.02				
POTOMAC FILTER PLANT		5.20	.88	.04						1.25	.04				1.48	.06					.62	.58					.25						
ROCKVILLE 1 NE	M	5.50	.64	-	T					1.40	.03	T				1.87	T				.71	.37			.02		.46	T					
TOHSON	M	-	-	-						-	-	-			-	-				-	-					-	-						
UNIONVILLE		6.35	.52	.34						1.23	.05	.17				1.32	.33				.15	2.07		T			.17	T					
WESTMINSTER POL BRKS		6.49	.48	1.08	T					T	.92	.24	.39				1.95	.02				.34	1.22				.25						
WOODSTOCK		6.30	1.00	.69						1.11	.05	.08				1.42	.08				.08	1.31					.48						
APPALACHIAN MOUNTAIN																																	
07																																	
CUMBERLAND 2		8.33	.80	.32							1.20	.60	.14				1.78	1.62				.50	.58		T		.02	.25	.52				
EDGEMONT		7.72	.80	.45	.02					.47	.92	.36	.10				2.10				.19	1.52	.35				.44						
FROSTBURG 2		7.76	1.09	.94	.02	.02				.86	.72	.33	T			.95	1.59			.04		.31	.26	.03		T	.12	.48				.00	
HAGERSTOWN																																	
HAGERSTOWN		7.37	.66	.44						.58	.66	.32				.03	2.07				.12	1.21	.13				1.15						
HANCOCK		7.26	.86	.73	.02					.90	.41	.28				.85	.86				.47	.77	.07				.14	.90					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
APRIL 1993

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	
ALLEGHENY PLATEAU 08																																	
MC HENRY 2 NW	6.05	.73	.24	.08	T					1.12	.66	.21	T			.68	.44	.01				.56	.50	.12				.14	.56				
MERRILL	7.73	.89	.40			T				1.10		.65				1.85	1.45	.02				.48	.28				.45	.16					
OAKLAND 1 SE	4.81	.73	.19	.04						.98		.11				.95	.35					.70	.17				.59						
SAVAGE RIVER DAM	7.33	1.09	.77	.02			T			1.02	.18	.15	.01	T		1.17	1.76	.02			T		.37	.21	T		.02	.09	.45				
DELAWARE																																	
NORTHERN 01																																	
NEWMARK UNIVERSITY FARM	5.42	1.01	.37	.03						1.62	.03	.06				.79	.12						1.32	.02					.05				
WILMINGTON HSO ARPT R	5.87	1.35	.04	T					.46	1.26		.02		T	T	1.27					T	.77	.14	T	T		.56						
WILMINGTON PORTER RSVR	7.15	1.57	.05	.03					.07	2.45				.01		1.28						.69	.35				.65						
SOUTHERN 02																																	
DOVER	4.42	.23	.69	.07						.85	.08	.05				T	1.14						.77				.54						
GEORGETOWN 5 SW	4.81	.22	.08	.10						.61	.55	.41					.78						1.32	.01			*	.73					
GREENWOOD 2 NE	3.81	.37	.40							.88	.07	.02				*	.73						.48				.85	.01					
LEWES	M 3.54	.42	-	.08						1.09	.40	.02				.02	.62						.54				.35						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
APRIL 1993

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																																		
ASSATEAGUE IS NATL SEA	07	MAX	58	50	51	52	46	46	51	53	52	52	61	65	55	55	60	54	63	64	60	59	61	53	61	60	61	61	52	56	57	62	56.4	
		MIN	47	41	42	39	37	41	40	39	39	46	43	45	41	43	48	50	49	44	47	49	51	46	48	44	50	51	43	40	40	41	44.1	
PRINCESS ANNE	17	MAX	74	74	52	52	48	49	58	64	65	65	65	64	62	78	77	74	75	63	71	74	76	71	63	70	77	78	61	65	76	76	67.2	
		MIN	46	46	42	30	31	29	30	32	36	57	44	42	39	37	50	48	52	36	38	54	53	41	43	33	53	58	41	30	31	31	41.1	
SALISBURY	17	MAX	73	72	51	52	50	50	60	63	65	65	60	65	62	68	78	74	63	63	73	74	74	71	62	70	78	77	60	65	72	75	66.2	
		MIN	48	45	42	35	36	41	33	35	39	52	43	42	40	44	51	60	53	41	43	55	57	43	44	38	54	60	43	36	37	43	44.4	
		OBS									59																							
SALISBURY FAA ARPT	MID	MAX	74	54	51	52	47	48	60	62	66	66	60	64	63	69	77	70	62	63	73	75	76	58	62	70	79	75	60	64	72	76	64.9	
		MIN	48	42	39	32	32	38	35	34	37	49	41	39	40	41	50	59	46	39	38	55	55	43	42	34	58	47	37	33	35	38	41.9	
SNOW HILL 4 N	17	MAX	72	62	51	53	51	47	57	62	63	61	62	66	64	67	75	69	64	64	73	76	76	68	62	68	79	74	60	60	70	73	65.0	
		MIN	47	44	41	30	31	38	36	33	36	50	45	40	40	39	50	57	53	36	42	50	54	44	44	35	52	52	42	32	33	37	42.1	
CENTRAL EASTERN SHORE																																		
ROYAL OAK 2 SSW																																		
	18	MAX	67	61	51	50	49	50	59	63	62	62	60	60	63	64	74	70	62	64	72	73	70	59	63	66	77	71	60	63	69	71	63.5	
		MIN	49	48	43	37	35	40	37	35	41	54	44	42	42	44	53	58	51	43	50	57	59	41	45	38	55	53	43	36	38	44	45.2	
VIENNA	18	MAX	72	71	53	54	48	50	61	65	64	67	64	67	64	66	76	75	77	65	73	75	74		64	68	76	76	62	65	71	76	66.9	
		OBS																																
		MIN	47	45	42	35	34	35	37	34	38	59	45	42	41	40	40	49	41	40	43	52	53	42	43	38	51	57	39	33	30	43	42.3	
		OBS																																
LOWER SOUTHERN																																		
LA PLATA 1 W																																		
	18	MAX	74	61	53	55	47	52	64	69	62	59	66	65	65	69	84	78	65	67	78	81	76	59	66	70	83	78	62	69	74	77	67.6	
		MIN	49	48	40	32	36	42	32	31	40	49	44	41	41	41	50	59	48	35	44	55	59	38	39	36	55	52	41	36	38	46	43.2	
MECHANICSVILLE 5 NE	19	MAX	74	58	53	54	46	49	60	64	58	58	65	64	65	67	84	68	63	66	77	79	72	57	66	68	84	75	62	65	71	73	65.5	
		MIN	47	49	41	30	35	41	30	29	36	49	44	40	40	38	50	59	48	35	42	55	57	40	42	33	49	50	41	32	34	41	41.9	
OWINGS FERRY LANDING	17	MAX	69	59	59	52	52	49	61	64	64	59	63	63	64	65	81	69	63	66	75	78	76	59	65	67	80	81	63	64	70	73	65.8	
		MIN	41	47	40	31	34	40	31	30	38	52	43	40	40	41	49	58	48	36	42	55	58	39	44	34	50	58	39	33	35	42	42.3	
UPPER SOUTHERN																																		
ANNAPOLIS POLICE BRKS																																		
	17	MAX	67	61	54	54	51	55	59	62	63	57	62	62	61	60	74	74	67															M
		MIN	47	42	41	34	38	40	37	34	42	50	42	42	42	42	41	55	37															M
BALTIMORE WSO ARPT	MID	MAX	66	50	50	52	47	54	61	64	58	60	63	60	64	61	76	65	60	64	75	78	67	51	63	65	81	72	63	65	71	72	63.3	
		MIN	46	45	38	30	34	40	35	32	40	46	42	41	41	42	50	57	45	36	44	52	51	38	43	35	49	43	38	36	38	44	41.7	
BELTSVILLE	08	MAX	60	68	57	51	53	46	54	61	66	53	58	63	59	64	64	80	61	58	65	75	79	66	50	64	66	81	68	61	68	74	63.1	
		OBS																																
		MIN	47	50	39	31	34	37	31	31	37	43	41	39	39	41	47	52	47	35	38	47	59	37	32	33	43	60	37	33	36	42	40.6	
		OBS																																
COLLEGE PARK	09	MAX	66	68	58	52	54	48	54	63	68	59	59	64	61	66	66	82	69	62	67	78	80	68	53	67	68	83	69	64	71	77	65.5	
		MIN	49	51	40	33	36	41	32	33	42	52	42	42	41	42	50	60	48	36	39	52	59	37	38	35	45	66	38	35	39	44	43.2	
DALECARLIA RESERVOIR	17	MAX	71	66	56	52	52	53	62	68	67	60	64	65	64	68	82	83	66	68	78	80	80	60	65	67	83	83	62	70	75	74	68.1	
		OBS																																
GLENN DALE BELL STN	16	MAX	68	68	50	51	50	48	60	65	65	59	62	60	60	63	74	78	61	59	72	74	78	64	61	64	84	78	62	64	70	73	64.8	
		OBS																																
		MIN	36	44	35	24	28	36	24	24	32	44	32	34	32	35	44	56	43	27	36	52	54	34	39	30	44	58	32	28	32	37	36.9	
		OBS																																
LAUREL 3 W	MID	MAX	68	55	51	53	51	55	63	67	57	57	63	60	64	67	80	66	64	66	77	78	71	52	65	65	80	74	72	70	77	77	65.5	
		MIN	42	40	33	30	30	35	33	35	42	45	37	39	37	36	45	53	41	36	43	51	46	41	42	43	46	41	32	32	38	45	39.6	
		OBS																																
NATIONAL ARBORETUM DC	07	MAX	66	70	56	52	53	47	53	62	67	60	60	65	61	66	69	83	68	61	67	77	81	67	51	66	68	83	68	63	70	76	65.2	
		MIN	49	50	42	34	37	39	35	33	38	47	44	42	41	43	47	53	49	37	43	52	59	39	38	40	45	62	39	36	39	41	43.1	
		OBS																																

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
APRIL 1993

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	
UPPER MARLBORO 3 NNW	08	MAX MIN	64 48	70 50	56 40	51 31	52 34	49 39	52 32	61 31	65 37	58 44	59 43	63 40	59 40	64 40	64 47	80 54	66 48	60 36	66 42	76 52	78 59	67 38	49 38	64 34	66 44	81 62	68 39	62 34	66 36	72 42	63.6 41.8		
NORTHERN EASTERN SHORE	05																																		
CHESTERTOWN	23	MAX MIN	64 47	51 45	52 41	49 32	49 34	55 39	62 34	68 35	66 40	62 48	62 44	60 41	64 39	66 41	79 50	71 58	62 48	64 40	75 47	77 55	71 56	59 41	64 44	67 37	80 54	71 47	61 39	67 35	73 38	75 44	64.9 43.1		
MILLINGTON 1 SE	18	MAX OBS MIN OBS	67 46	56 44	50 41	48 31	49 31	61 33	62 34	65 30	66 37	59 49	60 43	58 41	62 38	63 39	76 48	76 57	64 51	62 38	72 44	74 54	72 58	63 41	61 42	65 33	78 53	75 58	75 40	66 33	71 35	72 40	64.9 42.1		
NORTHERN CENTRAL	06																																		
ABERDEEN PHILLIPS FIEL	16	MAX OBS MIN OBS	60 49	58 44	51 42	50 31	48 37	55 39	60 36	64 32	64 41	62 52	61 44	58 43	62 40	62 41	76 48	77 58	60 51	63 38	74 46	75 58	75 59	64 39	62 43	66 36	77 53	68 58	60 38	64 34	70 37	72 42	63.9 43.6		
BALTIMORE CITY	MID	MAX MIN	64 45	50 43	49 37	51 34	45 36	54 37	62 36	64 40	58 46	58 44	62 42	59 42	63 40	74 44	74 49	64 57	61 44	66 38	76 47	80 55	68 51	51 36	65 43	63 45	84 53	73 41	62 39	64 46	70 53	72 48	63.1 43.4		
BENSON POLICE BARRACKS	17	MAX MIN	67 48	64 45	53 39	52 31	52 33	60 37	64 32	70 33	70 43	65 50	64 43	63 43	66 38	66 39	80 47	79 58	61 48	65 36	77 42	79 54	77 56	67 38	63 41	66 39	82 46	82 53	65 37	72 36	76 39	76 44	68.1 42.3		
CATOCTIN MOUNTAIN PARK	17	MAX MIN	58 43	55 42	43 32	55 29	54 32	60 28	64 32	70 35	70 42	65 48	64 34	63 41	70 40	70 43	74 53	72 39	56 33	63 33	73 45	76 48	76 48	57 30	59 32	60 41	77 44	75 45	59 29	66 39	74 42	74 48	63.7 39.4		
CLARKSVILLE 3 NNE	17	MAX OBS MIN OBS	65 46	61 51	53 27	51 30	52 30	55 38	61 23	65 27	62 36	57 49	60 39	63 36	60 39	65 38	79 44	75 56	63 44	63 30	75 33	79 54	75 54	60 34	63 44	63 29	79 39	78 51	59 34	65 29	75 33	76 39	65.2 38.4		
CONOWINGO DAM	MID	MAX MIN																																	M M
DAMASCUS 2 SSW	22	MAX MIN	62 47	61 42	47 34	50 28	44 30	53 38	60 25	65 33	57 42	54 44	62 37	55 36	61 34	63 37	77 55	74 54	56 43	64 29	72 45	78 54	69 47	47 32	63 42	62 45	80 45	65 44	59 33	67 31	68 43	73 47	62.3 39.9		
EMMITSBURG 2 SE	17	MAX MIN	60 47	55 47	50 37	50 26	50 25	54 38	58 28	64 29	65 37	57 51	63 40	62 42	63 36	63 36	76 37	77 56	63 45	64 33	73 39	76 49	76 53	61 33	62 41	63 31	77 48	77 34	60 31	67 38	72 38	72 44	64.3 39.0		
FREDERICK POLICE BRKS	17	MAX OBS MIN OBS	65 46	61 48	55 39	51 34	50 34	51 40	57 33	61 35	66 43	59 51	60 42	64 44	62 41	64 43	76 46	79 56	65 45	64 36	74 44	76 54	78 52	66 35	64 41	65 38	73 44	79 51	63 36	69 37	75 42	75 49	65.8 42.6		
MILLERS 4 NE	18	MAX MIN	57 45	52 46	47 35	47 31	47 30	56 36	58 31	65 33	62 41	57 49	59 39	58 41	60 37	61 36	73 46	70 55	60 44	62 34	71 43	75 53	74 52	57 33	60 39	61 35	79 48	76 45	57 35	66 35	72 40	74 46	62.4 40.4		
ROCKVILLE 1 NE	MID	MAX MIN	66 47	56 42	46 36	49 34	45 36	53 40	61 34	64 44	58 43	55 47	63 42	57 44	63 37	64 42	80 48	65 53	55 43	65 39	75 49	79 56	70 47	50 34	64 42	64 36	82 54	72 45	61 37	71 40	74 47	76 47	63.4 42.5		
TOWSON	18	MAX MIN																																M M	
UNIONVILLE	17	MAX MIN	63 47	57 48	52 38	51 27	48 29	56 38	60 25	67 28	64 36	57 50	62 39	58 40	63 35	63 33	78 42	73 56	61 43	65 30	74 34	77 50	74 53	57 32	63 38	63 29	79 41	78 47	61 32	69 29	75 34	76 41	64.8 38.1		
WESTMINSTER POL BRKS	17	MAX MIN	62 44	58 47	56 38	48 30	48 33	55 37	59 33	66 37	58 44	58 49	60 40	61 41	61 37	62 40	78 47	56 56	63 39	64 32	74 47	78 54	78 53	64 34	64 49	61 41	81 49	78 45	58 33	68 39	75 42	77 49	65.0 42.0		
WOODSTOCK	18	MAX MIN	65 46	58 46	52 36	50 28	50 31	56 38	62 28	66 30	61 40	57 50	63 39	60 39	64 39	63 39	79 48	71 56	62 45	66 33	76 40	80 54	77 55	56 35	64 40	65 33	81 48	76 50	62 35	69 32	75 36	78 42	65.5 40.4		
APPALACHIAN MOUNTAIN	07																																		
CUMBERLAND 2	18	MAX OBS MIN OBS	62 47	56 35	44 31	52 32	48 33	58 31	65 31	71 35	69 49	61 40	68 41	67 38	66 37	63 40	81 43	75 42	62 38	66 37	76 38	82 50	78 35	55 35	64 35	62 36	85 43	80 34	65 33	73 36	82 46	79 50	67.2 38.6		
FROSTBURG 2	07	MAX MIN	60 42	57 42	45 28	35 27	42 28	40 30	49 34	56 32	64 38	60 44	49 35	61 33	47 33	57 33	53 39	75 42	59 36	42 34	57 34	67 38	74 46	52 31	44 30	55 35	54 37	76 47	53 29	58 28	67 36	74 44	56.1 35.5		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
APRIL 1993

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	
			HAGERSTOWN	08	MAX MIN	66 47	62 47	55 36	48 28	50 32	47 34	55 32	61 32	65 38	58 48	55 38	64 41	57 37	63 39	61 42	78 31	66 42	57 35	67 42	75 44	78 52	64 35	43 34	65 31	62 45	80 56	64 31	62 33		69 38	75 48	62.4 38.9
HANCOCK	08	MAX MIN	71 48	60 46	55 37	48 27	52 26	50 33	59 28	65 30	69 29	60 43	67 39	69 41	58 41	65 34	61 35	81 40	66 42	56 31	67 35	78 42	82 52	66 35	54 35	65 33	63 38	84 44	62 31	64 32	71 39	78 41	64.9 36.9	
ALLEGHENY PLATEAU MC HENRY 2 NW	08	MAX MIN	59 41	58 39	40 25	36 24	43 25	39 28	51 30	61 30	67 38	61 42	46 30	63 31	43 30	58 30	57 40	80 45	65 34	38 31	58 33	71 42	76 42	50 28	42 27	56 32	57 42	75 50	51 26	60 27	72 41	76 50	57.0 34.4	
OAKLAND 1 SE	17	MAX MIN	61 32	50 33	50 26	44 23	43 30	49 30	60 27	68 30	66 46	56 40	64 33	60 38	58 29	59 30	79 39	70 50	63 35	57 33	70 29	75 42	72 40	44 29	55 34	57 27	76 38	74 42	61 25	71 27	75 37	74 42	62.0 33.9	
SAVAGE RIVER DAM	08	MAX MIN	63 35	60 44	48 31	41 29	48 30	42 34	53 28	60 29	67 32	62 47	52 38	65 37	50 33	62 32	57 33	77 38	62 38	45 36	60 33	72 34	78 47	55 33	48 33	58 31	57 34	73 39	56 30	63 31	73 31	79 40	59.5 34.7	
DELAWARE NORTHERN	01	MAX MIN	54 44	53 42	48 38	47 31	51 31	55 35	61 32	66 31	65 36	61 49	58 43	59 42	61 37	64 45	76 46	65 55	60 48	62 38	75 38	78 51	74 56	65 39	62 36	68 34	76 43	72 48	62 40	65 33	73 35	74 40	63.7 40.5	
WILMINGTON WSO ARPT	MID	MAX MIN	56 48	48 43	49 39	49 33	52 33	55 39	61 35	68 33	64 41	59 47	59 44	60 41	62 39	64 39	75 51	64 56	59 41	62 39	74 44	76 53	71 55	56 40	62 41	66 40	79 52	69 44	63 42	68 37	72 37	72 45	63.1 42.4	
WILMINGTON PORTER RSVR	MID	MAX MIN	54 46	46 41	47 38	46 35	51 36	53 37	59 36	65 38	66 43	58 51	57 43	58 41	61 39	62 40	74 49	65 56	59 44	60 40	73 44	74 52	68 55	55 40	61 42	65 44	77 50	66 43	61 40	64 37	71 40	71 48	61.6 42.9	
SOUTHERN DOVER	02	MAX MIN	63 44	57 42	50 38	49 32	49 34	50 35	60 37	63 34	64 40	54 46	56 43	57 41	60 40	62 48	76 63	64 52	59 40	72 48	72 58	72 58	68 42	54 47	62 38	75 52	75 64	69 42	68 36	62 35	70 37	52.9 43.5		
GEORGETOWN 5 SW	08	MAX MIN	60 48	64 43	53 41	60 32	59 30	47 34	51 34	59 31	62 34	56 40	54 36	66 44	62 38	62 36	67 41	78 53	70 53	63 39	62 41	72 54	74 54	73 50	51 37	62 31	72 35	73 42	59 32	61 32	70 44	72 50	63.1 40.3	
GREENWOOD 2 NE	18	MAX MIN	69 48	61 41	49 40	47 32	46 30	47 39	58 36	63 32	68 35	61 49	58 43	60 39	61 38	64 38	78 49	70 60	59 51	62 37	72 44	74 54	73 57	60 41	61 43	66 35	78 50	75 53	59 41	63 32	70 33	72 39	63.5 42.0	
LEWES	17	MAX MIN	68 44	62 40	49 39	49 35	46 35	44 40	52 40	54 41	58 38	57 45	60 44	61 43	58 41	61 42	77 50	77 50	61 53	62 41	74 46	75 54	72 57	60 43	64 41	69 41	79 42	75 60	66 45	53 41	60 40	65 42	62.3 43.8	

SEE REFERENCE NOTES FOLLOWING STATION INDEX
9

EVAPORATION AND WIND

MARYLAND AND
DELAWARE
APRIL 1993

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	-	37	*	*	25	26	60	61	30	20	56	35	64	96	44	41	04	*	21	23	72	88	72	35	98	35	76	31	50	17	12
		EVAP	-	7	*	*	38	9	10	16	17	0	14	20	10	14	15	16	9	34	7	27	28	14	14	23	7	28	15	18	17	18	
		MAX	70	72	-	-	50	52	71	73	59	57	70	58	73	72	77	63	64	72	78	80	68	53	64	63	80	65	73	79	84		
		MIN	50	51	-	-	49	39	38	40	44	41	41	41	41	41	46	51	50	40	46	46	53	41	39	39	43	49	40	38	44	47	
UPPER MARLBORO	3 NNW	WIND	-	5	29	19	5	11	8	2	24	31	14	24	6	7	30	28	22	16	45	83	9	60	54	30	69	41	21	1	0		
		EVAP	-	8	3	24	13	9	11	15	17	4	4	15	14	15	14	14	17	17	16	32	28	7	12	22	13	27	15	22	17	18	
		MAX	56	59	55	53	53	49	48	55	57	53	54	57	53	59	59	53	55	53	62	62	64	62	55	57	56	62	60	64	64	66	
		MIN	48	51	47	45	45	45	42	44	44	47	47	47	48	48	50	53	53	50	50	52	55	54	48	48	48	53	52	51	51	52	
DELAWARE																																	
SOUTHERN	02																																
GEORGETOWN	5 SW	WIND	12	28	12	37	37	40	33	28	25	40	67	54	46	37	7	94	62	49	35	99	12	55	75	79	57	77	15	20	20	1	
		EVAP	-	10	8	10	25	7	8	21	19	-	54	44	10	11	13	22	11	27	19	24	26	25	15	15	-	18	21	27	12	9	
		MAX	54	54	61	57	59	48	53	66	68	61	63	66	66	69	72	81	68	68	70	75	74	78	55	62	70	76	68	73	75	78	
		MIN	45	48	38	34	33	37	37	37	36	40	40	37	40	38	45	52	52	42	40	45	52	50	38	37	39	42	40	42	44	50	

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 1993

STATION	DAY OF MONTH																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MARYLAND																																	
UPPER SOUTHERN 04																																	
BALTIMORE WSD ARPT		T																															
	RSNOWFALL																																
	SN ON GND																																
	WTR EQUIV																																
NORTHERN CENTRAL 06																																	
CATOCTIN MOUNTAIN PARK	SNOWFALL																																
	SN ON GND																																
DAMASCUS 2 SSW	SNOWFALL																																
	SN ON GND																																
EMMITSBURG 2 SE	SNOWFALL																																
	SN ON GND																																
FREDERICK POLICE BRKS	SNOWFALL																																
	SN ON GND																																
MILLERS 4 NE	SNOWFALL																																
	SN ON GND																																
WOODSTOCK	SNOWFALL																																
	SN ON GND																																
APPALACHIAN MOUNTAIN 07																																	
FROSTBURG 2	SNOWFALL																																
	SN ON GND																																
ALLEGHENY PLATEAU 08	SNOWFALL																																
MC HENRY 2 NW	SNOWFALL																																
	SN ON GND																																
MERRILL	SNOWFALL																																
	SN ON GND																																
OAKLAND 1 SE	SNOWFALL																																
	SN ON GND																																
SAVAGE RIVER DAM	SNOWFALL																																
	SN ON GND																																
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 1993

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 FIEL	001506		HARFORD	39 28	76 10W	57	16	16		C	H	PHILLIPS ARMY AIRFIELD	
ANNAPOLIS POLICE BRKS	019304		ANNE ARUNDEL	38 59	76 30W	25	17	17			H	ANNAPOLIS POLICE BRKS	
ASSATEAGUE IS NATL SEA	033901		WORCESTER	38 14	75 8W	10	07	07			H	NATIONAL PARK SERVICE	
BALTIMORE WSO ARPT	044650	R	ANNE ARUNDEL	39 11	76 40W	148	MID	MID			C	NATL WEATHER SERVICE	
BALTIMORE CITY #	047006	R	BALTIMORE CI	39 17	76 37W	14	MID	MID			C	NATIONAL WEATHER SERVICE	
BELTSVILLE	070004		PRINCE GEORG	39 2	76 53W	120	08	08			OB	USDA CHEM & BIOPHYS LAB	
BENSON POLICE BARRACKS	073306		HARFORD	39 30	76 29W	365	17	17			C	MARYLAND STATE POLICE	
CATOCTIN MOUNTAIN PARK	153006		FREDERICK	39 39	77 29W	1610	17	17			C	CATOCTIN MOUNTAIN PARK	
CHESTERTOWN	175005		KENT	39 13	76 4W	40	23	23			H	THOMAS W ELIASON JR	
CLARKSVILLE 3 NNE	186206		HOWARD	39 15	76 56W	370	17	17			H	UNIV OF MD AGRONOMY DEPT	
COLLEGE PARK	199906		PRINCE GEORG	38 59	76 57W	90	09	09			C	UNIVERSITY OF MARYLAND	
CONOWINGO DAM	206004		HARFORD	39 39	76 10W	40	MID	MID				SUSQUEHANNA ELECTRIC CO	
CUMBERLAND 2	222820		ALLEGANY	39 38	78 45W	730	18	07			H	TIMOTHY B THOMAS	
DALECARLIA RESERVOIR	232250		DIS COLUMBIA	38 56	77 7W	150	17	17				U S CORPS OF ENGINEERS	
DAMASCUS 2 SW	233350		MONTGOMERY	39 16	77 14W	722	19	19			H	INACTIVE 01/01/92	
DAMASCUS 2 SSW	233606		MONTGOMERY	39 16	77 14W	670	22	22			H	ROBERT J LEFFLER	
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	LUCILLE K BEALE	
FREDERICK POLICE BRKS	334806		FREDERICK	39 25	77 26W	380	17	17			H	MARYLAND STATE POLICE	
FROSTBURG 2	341907		ALLEGANY	39 40	78 56W	2170	07	07			H	KENNETH L CLOSE	
GLENN DALE BELL STN	367950		PRINCE GEORG	38 58	76 48W	150	16	16			H	USDA PLANT INTRODUCT STN	
HAGERSTOWN	397950		WASHINGTON	39 39	77 44W	660	08	08			H	HAGERSTOWN RESERVOIR	
HANCOCK	403007		WASHINGTON	39 42	78 11W	428	08	08			C	TOWN OF HANCOCK	
LA PLATA 1 W	508003		CHARLES	38 32	77 0W	140	18	18			C	C RUSSELL LEVERING	
LAUREL 3 W	511104		PRINCE GEORG	39 6	76 54W	400	MID	MID				WA SUBURBAN SANITARY COM	
MC HENRY 2 NW	583208		GARRETT	39 35	79 22W	2680	08	08			C	JOSEPH F JOHENNING	
MECHANICSVILLE 5 NE	586503		ST MARYS	38 27	76 41W	100	19	19			H	SANDRA J HASTINGS	
MERRILL	589408		GARRETT	39 36	79 5W	1790		09			H	DELWOOD E MERRILL	
MILLERS 4 NE	593406		CARROLL	39 43	76 48W	860	18	18			C	BOBBY P MILLER	
MILLINGTON 1 SE	598850		KENT	39 16	75 52W	30	18	18				HOWARD L HARVEY	
NATIONAL ARBORETUM DC	635004		DIS COLUMBIA	38 54	76 59W	50	07	07			H	US NATIONAL 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	
POTOMAC FILTER PLANT	727206		MONTGOMERY	39 2	77 15W	270		08				POTOMAC WATER FILT PLANT	
PRINCESS ANNE	733001		SOMERSET	38 13	75 41W	20	17	17				UNIV OF MD EASTERN SHORE	
ROCKVILLE 1 NE	770506		MONTGOMERY	39 6	77 6W	440	MID	17			H	WASHINGTON GAS & ELEC 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 ARPT #	800050		WICOMICO	38 20	75 31W	50	MID	MID			H	FAA	
SAVAGE RIVER DAM	806508		GARRETT	39 31	79 8W	1495	08	08			OB	US CORPS OF ENGINEERS	
SNOW HILL 4 N	838001		BORCESTER	38 14	75 23W	30	17	17			H	CURTIS E SHOCKLEY	
TOWSON	887706		MONTGOMERY	39 23	76 34W	390	18	18				ENVIRONMENTAL TECH GROUP	
UNIONVILLE	903006		FREDERICK	39 27	77 11W	430	17	07			C	RICHARD GETZANDANNER	
UPPER MARLBORO 3 NNW	907004		PRINCE GEORG	38 52	76 47W	100	08	08			OB	UNIVERSITY OF MARYLAND	
VIENNA	914002		DORCHESTER	38 29	75 50W	10	18	18				DELMARVA POWER & LIGHT	
WESTMINSTER POL BRKS	944006		CARROLL	39 33	76 58W	765	17	17			H	MARYLAND STATE POLICE	
WOODSTOCK	975006		BALTIMORE	39 20	76 52W	460	18	18			H	JOHN A HILTZ	
DELAWARE													
DOVER	273002		KENT	39 9	75 31W	30	17	17			H	STATE HIGHWAY DEPT	
GEORGETOWN 5 SW	357002		SUSSEX	38 38	75 27W	45	08	08			OB	UNIV OF DEL SUBSTATION	
GREENWOOD 2 NE	359502		SUSSEX	38 50	75 35W	45	18	18			H	DANIEL M SWARTZENTRUBER	
LEWES	532002		SUSSEX	38 46	75 8W	15	17	17				BOARD OF PUBLIC WORKS	
NEWARK UNIVERSITY FARM	641001		NEW CASTLE	39 40	75 44W	90	17	17			17	C	UNIV OF DEL AGRIC FARM

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
APRIL 1993

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER
							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
WILMINGTON WSO ARPT	R9595	01	NEW CASTLE	39 40	75 36W	79	MID	MID		C H J	NATIONAL WEATHER SERVICE
WILMINGTON PORTER RSVR	9605	01	NEW CASTLE	39 46	75 32W	270	MID	MID		H	PUBLIC WORKS

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

MARYLAND AND
DELAWARE
APRIL 1993

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 (i.e. not precipitation alone).

NORMALS: The average value of the meteorological element over a time period. Effective 1 January 1993, the averaging period is 1961 to 1990. 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 number 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 indicated 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 the "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 the "Soil Temperatures" table.
H Observations appear in the "Snowfall and Snow on the 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 the 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 the 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 check, 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 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 of 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.

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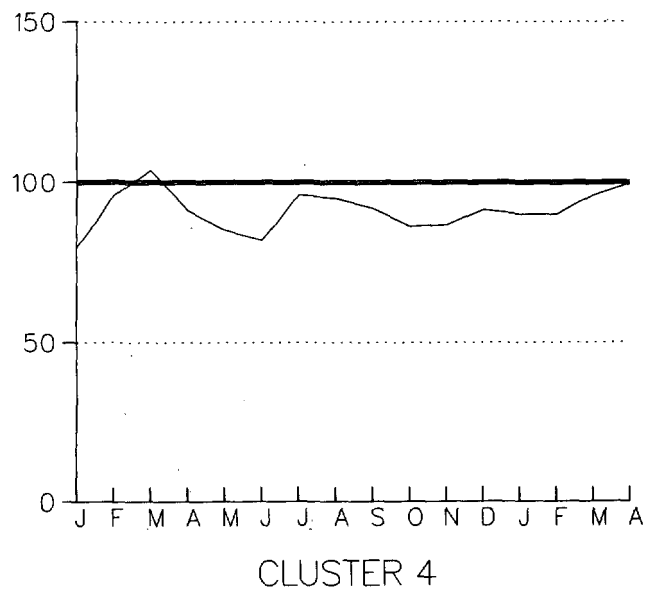
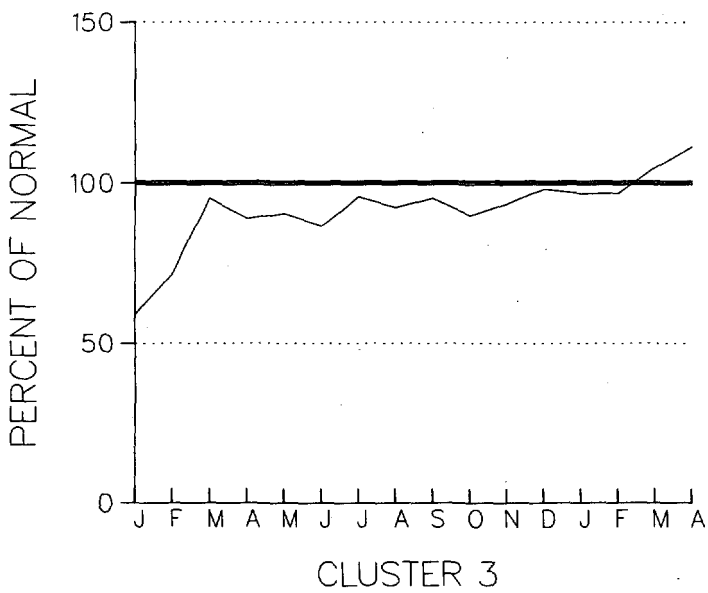
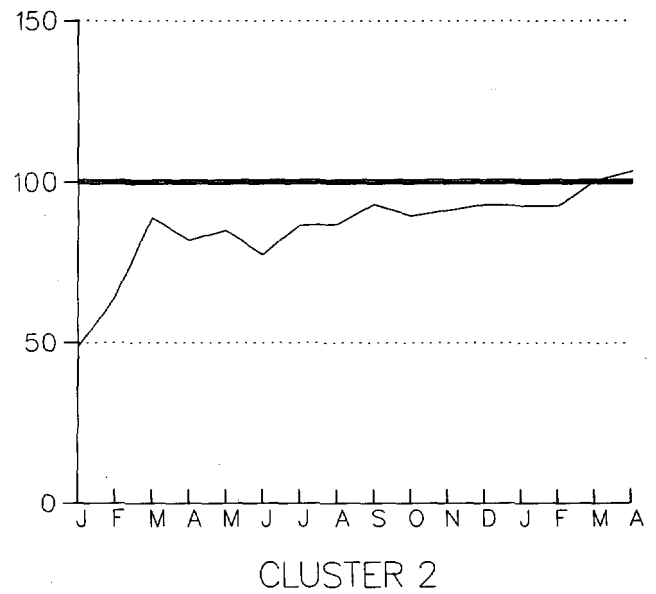
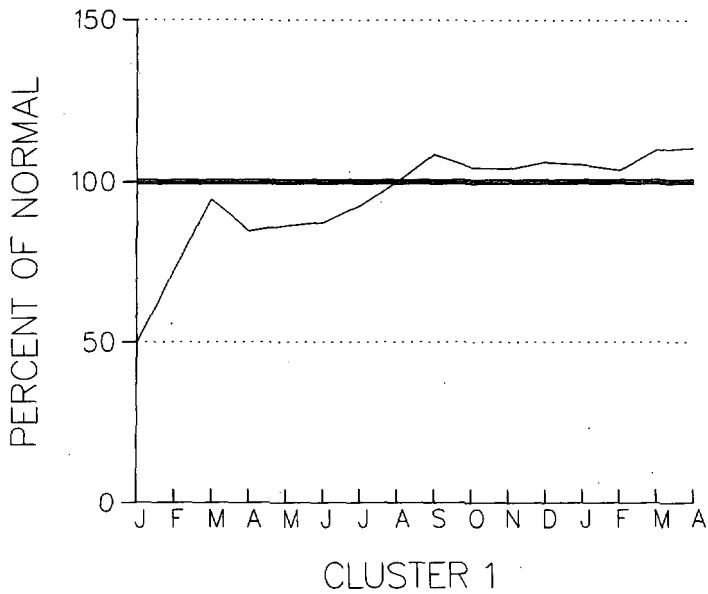
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1961-1990)
 FOR THE LAST 16 MONTHS
 ENDING APRIL 1993
 MARYLAND

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

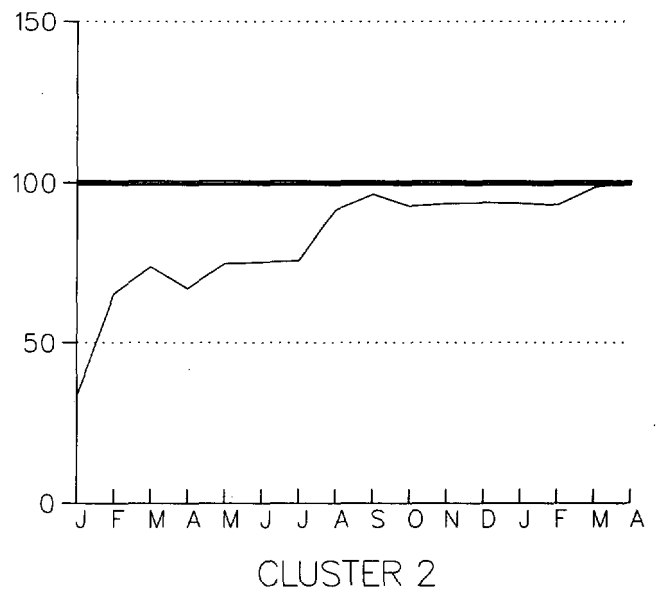
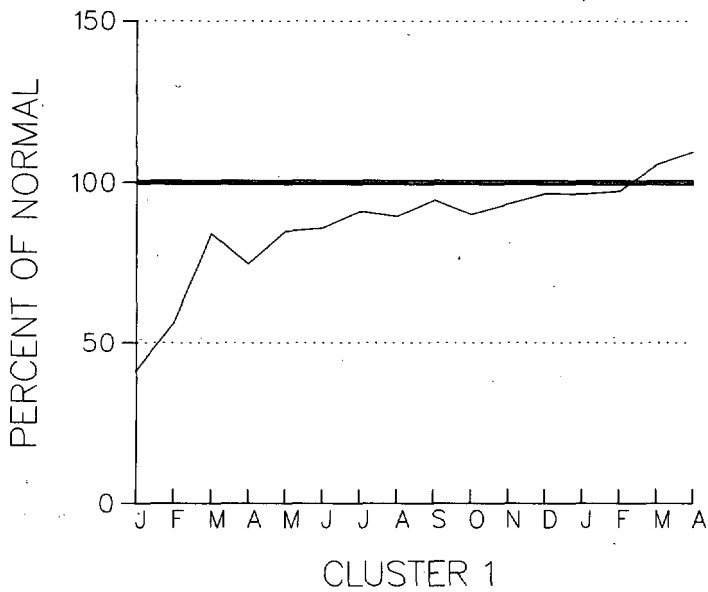
CLUSTER 4 -DIVISION(S):
 ALLEGHENY PLATEAU 08



CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1961-1990)
 FOR THE LAST 16 MONTHS
 ENDING APRIL 1993
 DELAWARE

CLUSTER 1 - DIVISION(S):
 NORTHERN 01

CLUSTER 2 - DIVISION(S):
 SOUTHERN 02



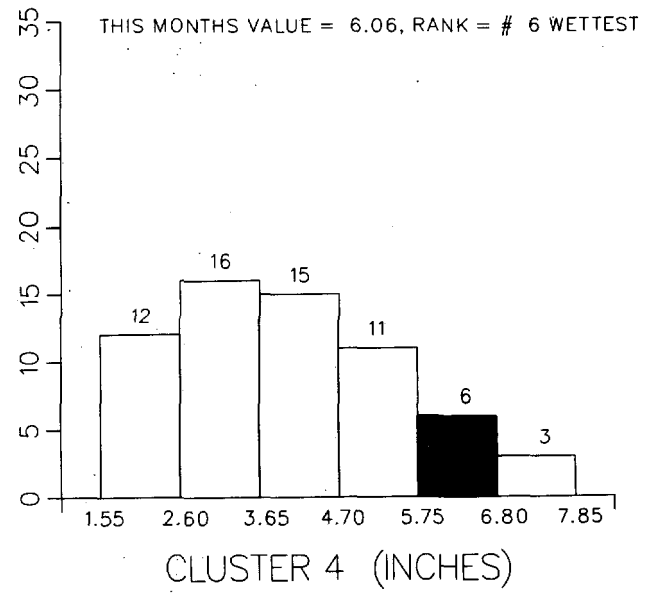
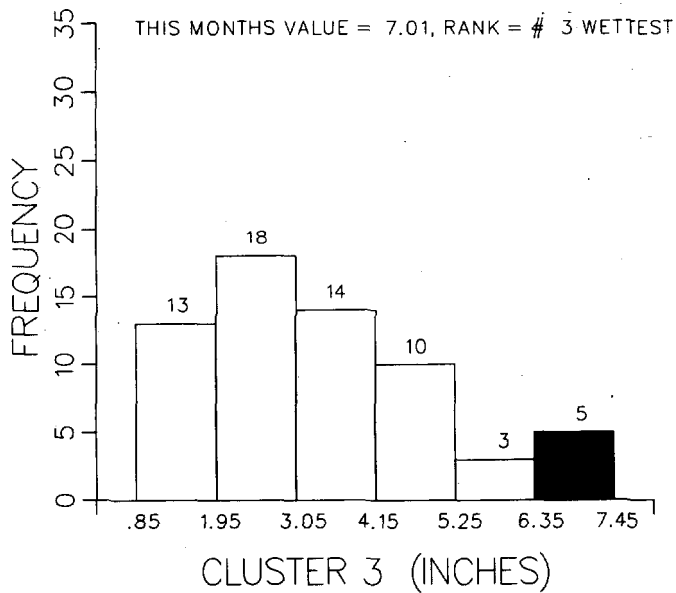
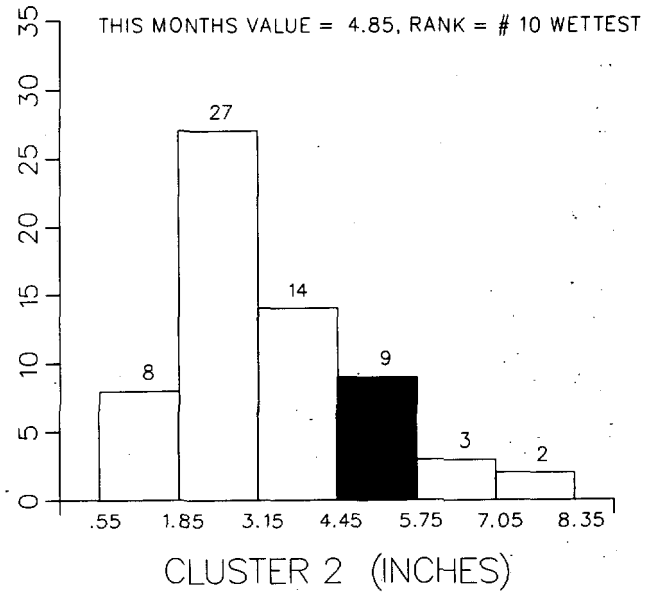
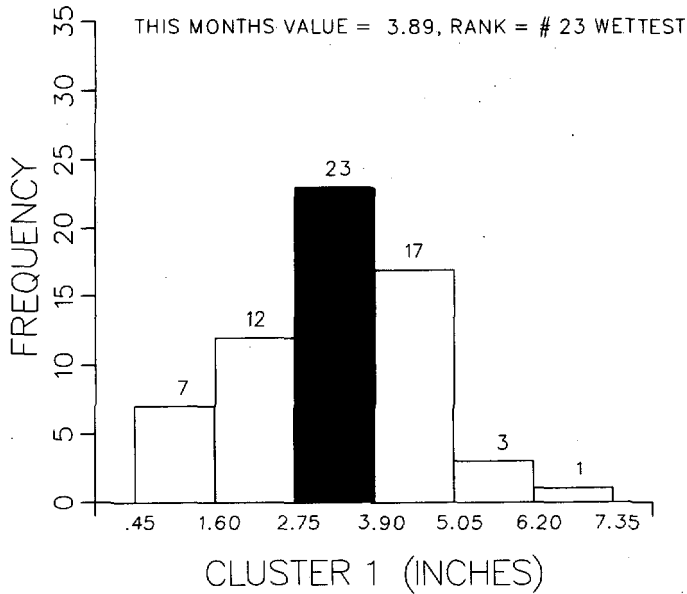
MEAN MONTHLY PRECIPITATION FREQUENCY DISTRIBUTION FOR PERIOD OF RECORD 1931-1993 FOR MONTH OF APRIL MARYLAND

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

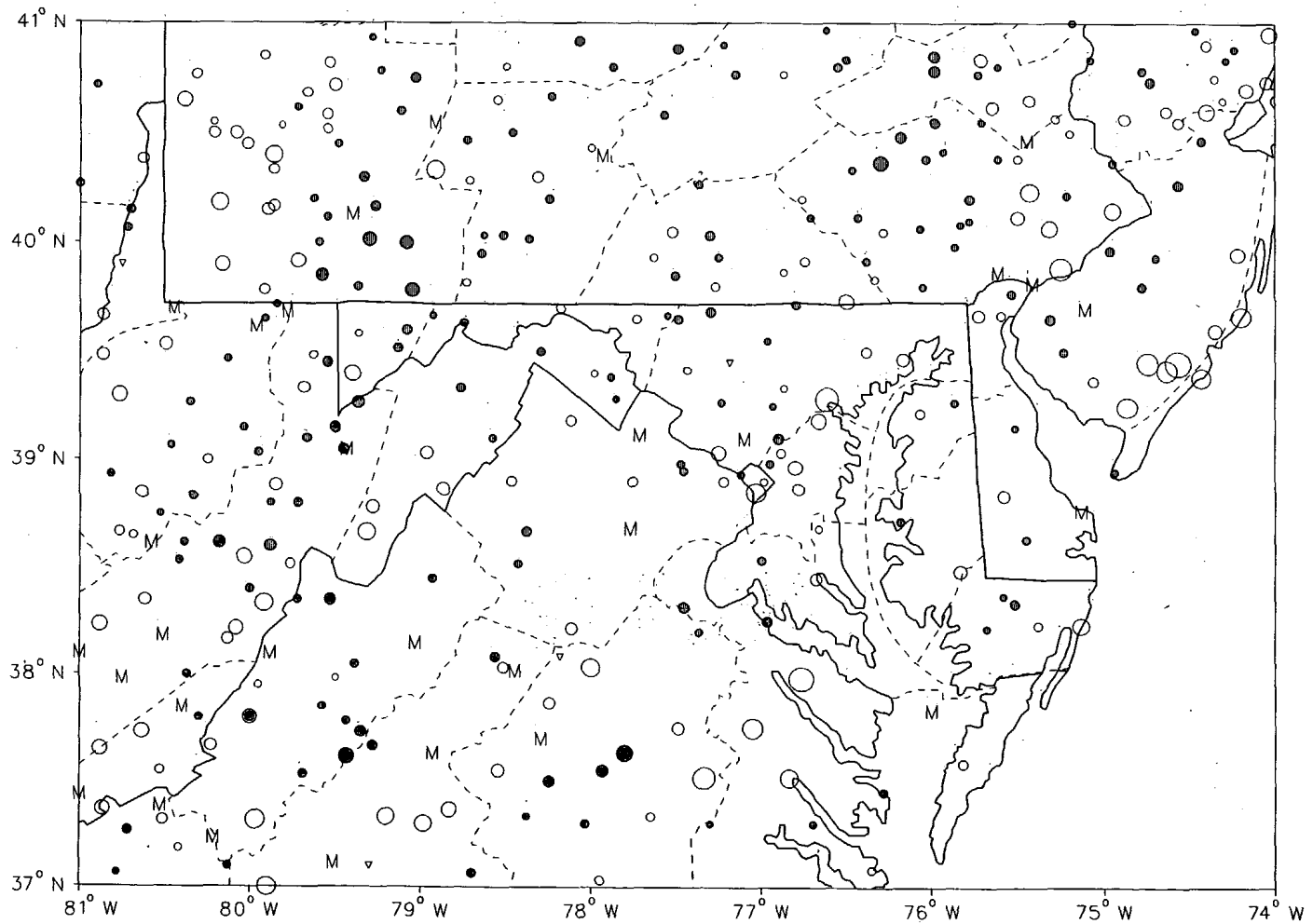
CLUSTER 3 - DIVISION(S):
NORTHERN CENTRAL 06
APPALACHIAN MOUNTAIN 07

CLUSTER 4 - DIVISION(S):
ALLEGHENY PLATEAU 08



MONTHLY PRECIPITATION DEPARTURE FROM
THE DIVISIONAL AVERAGE FOR
APRIL 1993
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

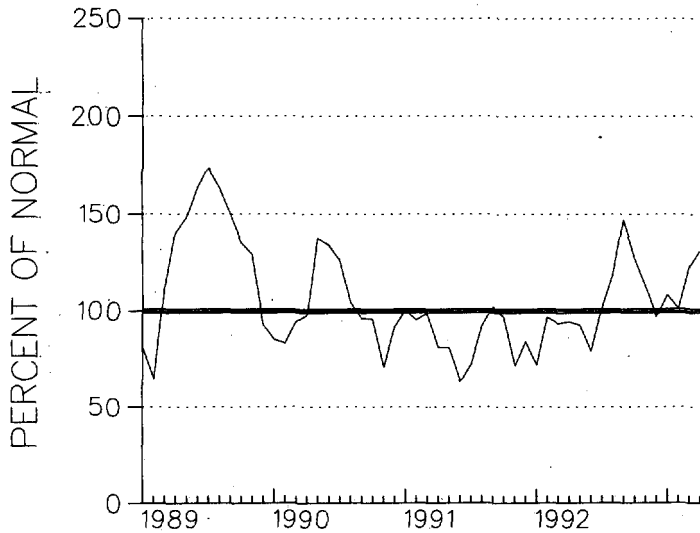
PRECIPITATION DEPARTURES FROM NORMAL (1961-1990)
 THREE MONTH RUNNING MEAN
 FOR THE 52 MONTHS ENDING WITH APRIL 1993 DATA
 MARYLAND

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

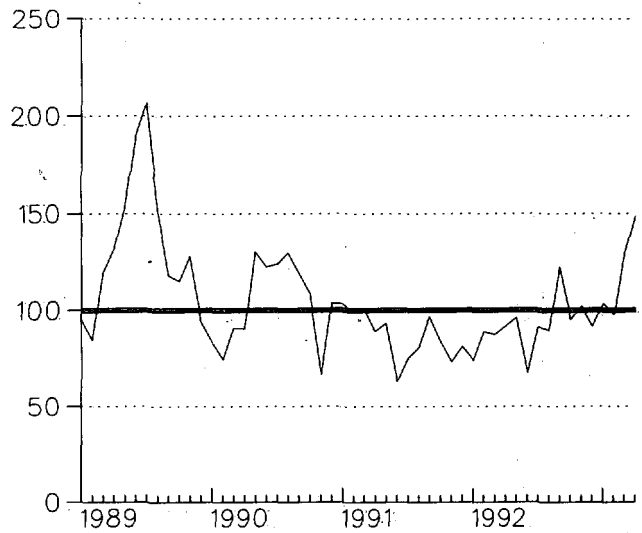
CLUSTER 2 - DIVISION(S):
 UPPER SOUTHERN 04
 NORTHERN EASTERN SHORE 05

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

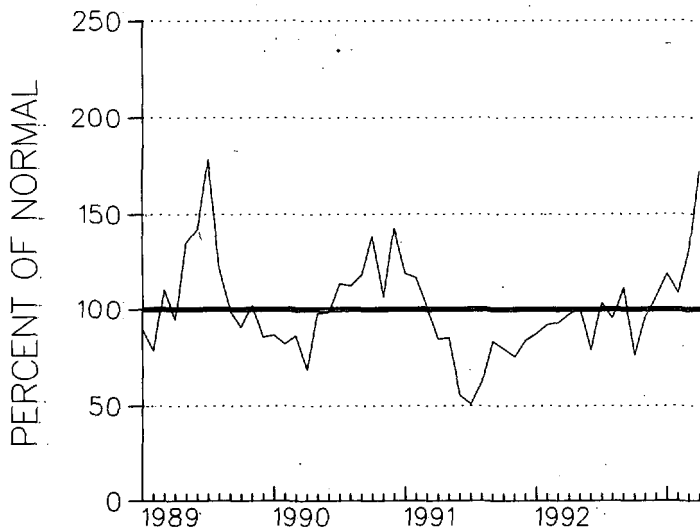
CLUSTER 4 - DIVISION(S):
 ALLEGHENY PLATEAU 08



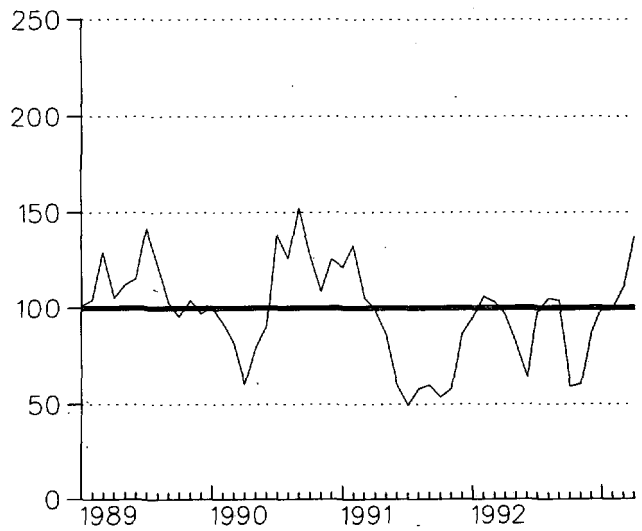
CLUSTER 1



CLUSTER 2



CLUSTER 3

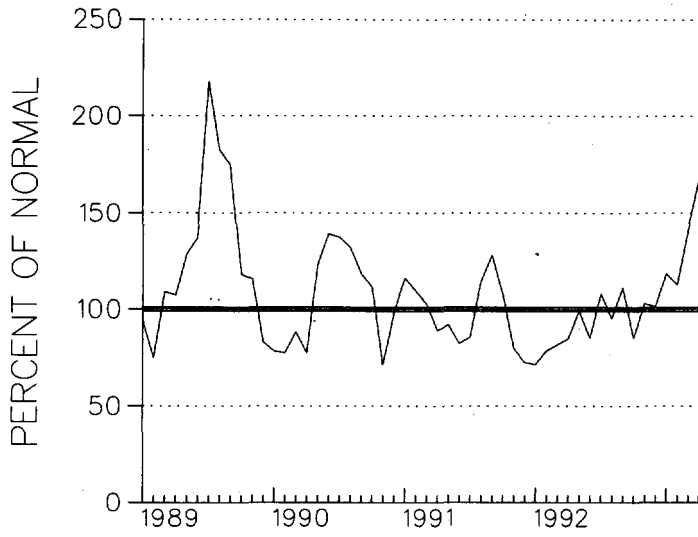


CLUSTER 4

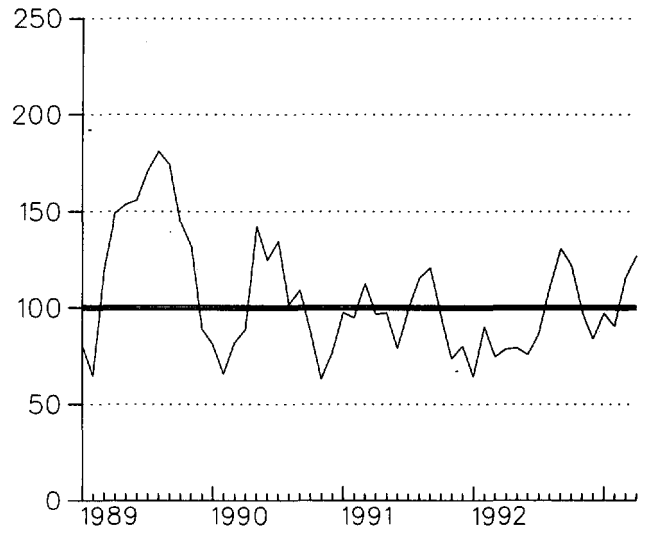
PRECIPITATION DEPARTURES FROM NORMAL (1961-1990)
THREE MONTH RUNNING MEAN
FOR THE 52 MONTHS ENDING WITH APRIL 1993 DATA
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



CLUSTER 1

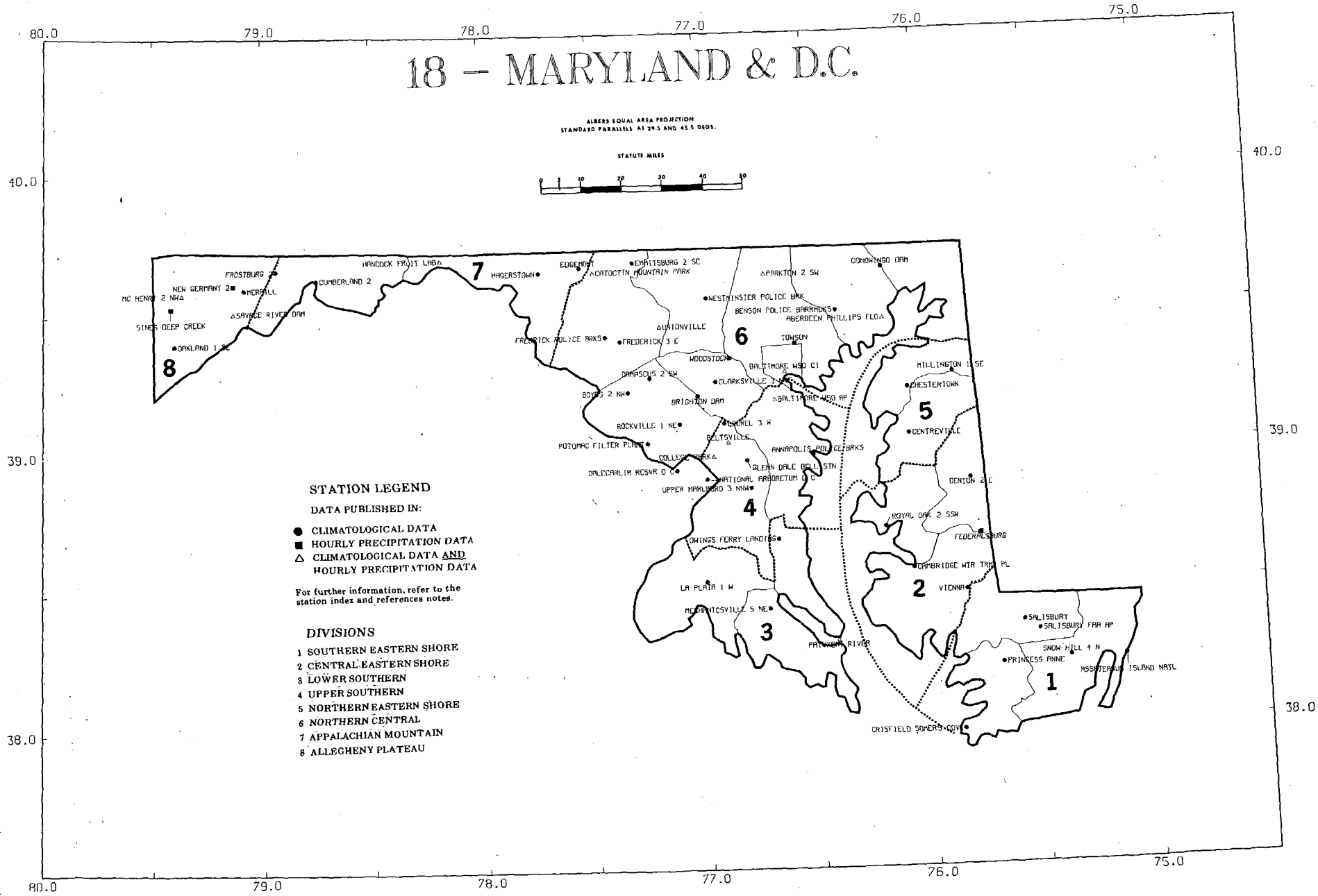
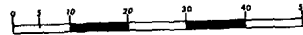


CLUSTER 2

18 - MARYLAND & D.C.

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 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

40.6 76.0

75.0

40.0

07 - DELAWARE

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 39.5 AND 43.5 DEGS.

STATUTE MILES



STATION LEGEND

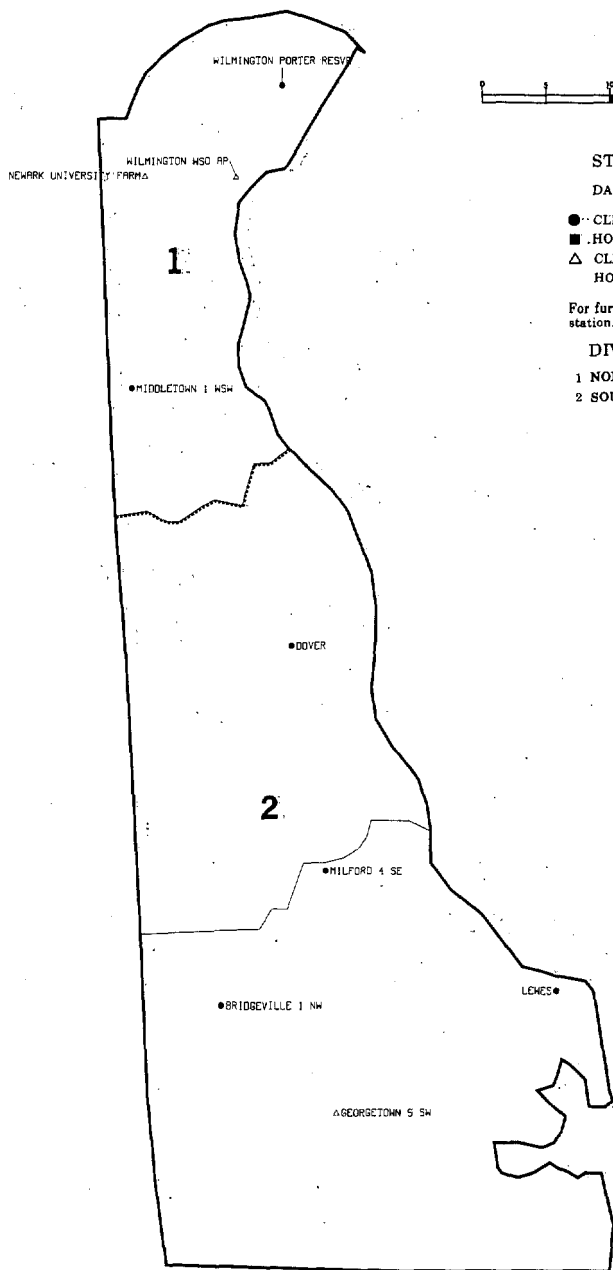
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For further information, refer to the station index and reference notes.

DIVISIONS.

- 1 NORTHERN
- 2 SOUTHERN



39.0

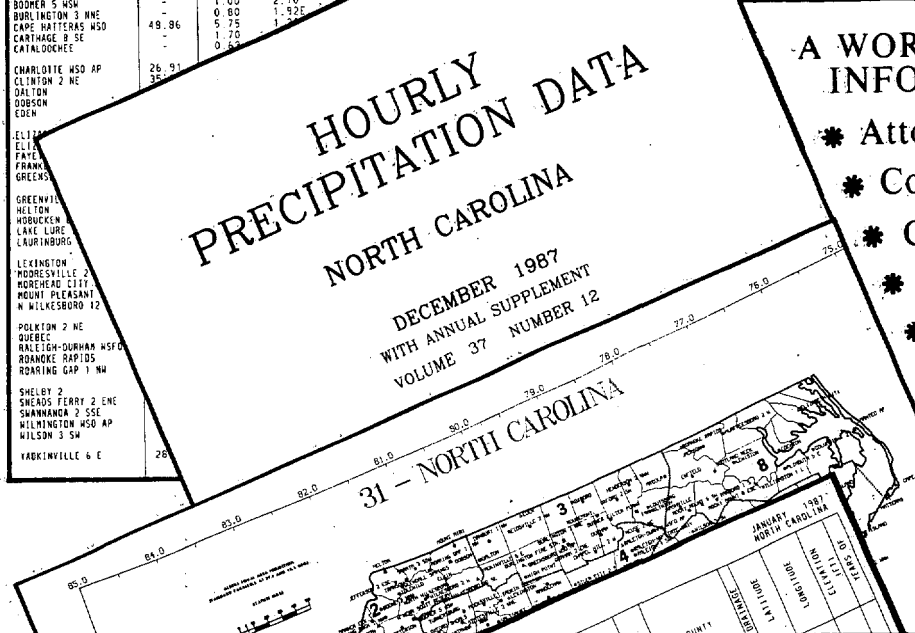
39.0

38.0 76.0

75.0

38.0

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	5.28	4.28
ASHEVILLE WSO AP		25.67	0.71	1.57	1.81	0.53	2.6	...	...	...	2.77	4.15	2.94
ASHFORD		36.74E	1.20	2.70	2.90	0.54E	1.54	...	...	...	3.80	4.90	4.80
BAHNS		-	-	1.30	2.60	-	-	...	...	...	2.40	4.10	2.90
B EVERETT JORDAN DAN		-	1.70	1.50	3.60	-	-	...	...	...	1.70	-	-



STATION	COUNTY	ELEVATION (FEET)	MONTHLY PRECIPITATION MAXIMA					
			15 MINUTES	30 MINUTES	1 HOUR	2 HOURS	3 HOURS	6 HOURS
NORTH CAROLINA			10 201356W	20 011440W	30 011440W	40 011440W	50 011440W	60 011440W
ASHEVILLE WSO AP	10 201356W	20 011440W	30 011440W	40 011440W	50 011440W	60 011440W

STATION	A.M. HOUR ENDING											
	1	2	3	4	5	6	7	8	9	10	11	12
NORTH CAROLINA	01	01	02	01	01	01	01	01	01	01	01	01
ASHEVILLE WSO AP	00	08	08	08	08	07	05	04	03	02	01	01

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ISSN 0364-6319

HOURLY PRECIPITATION DATA

NORTH CAROLINA

JANUARY 1987


VOLUME 37 NUMBER 1



DEPARTMENT OF COMMERCE
UNITED STATES OF AMERICA

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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