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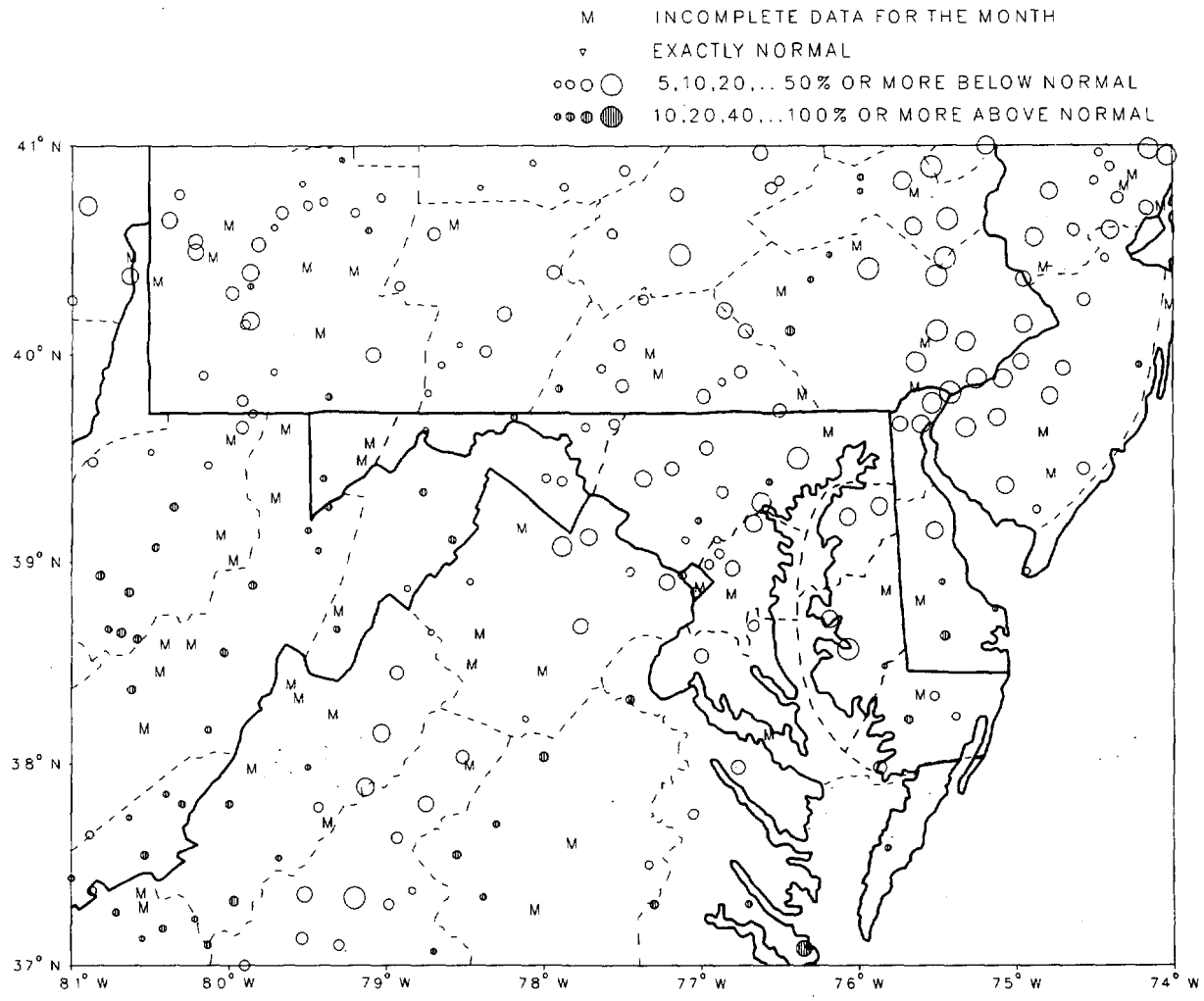
CLIMATOLOGICAL DATA
MARYLAND AND DELAWARE
NOVEMBER 1989
VOLUME 93 NUMBER 11

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



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

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noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND			
HIGHEST TEMPERATURE	78	NOVEMBER 14	2 STATIONS
LOWEST TEMPERATURE	5	NOVEMBER 24	UNIONVILLE
			PRINCESS ANNE
			ABERDEEN PHILLIPS FLD
GREATEST TOTAL PRECIPITATION	4.51		
LEAST TOTAL PRECIPITATION	1.51		
GREATEST 1 DAY PRECIPITATION	2.05	NOVEMBER 16	LAUREL 3 W
GREATEST TOTAL SNOWFALL	11.5		MC HENRY 2 NW
GREATEST DEPTH OF SNOW OR ICE	6	NOVEMBER 23	LA PLATA 1 W
DELAWARE			
HIGHEST TEMPERATURE	77	NOVEMBER 14	LEWES
LOWEST TEMPERATURE	14	NOVEMBER 24	MILFORD 4 SE
			GEORGETOWN 5 SW
			WILMINGTON WSO ARPT R
GREATEST 1 DAY PRECIPITATION	1.34	NOVEMBER 15	GEORGETOWN 5 SW
GREATEST TOTAL SNOWFALL	6.0		MILFORD 4 SE
GREATEST DEPTH OF SNOW OR ICE	6	NOVEMBER 23	2 STATIONS

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

STATION	TEMPERATURE (°F)									NO. OF DAYS				PRECIPITATION (IN)				SNOW, SLEET			NO. OF DAYS		
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	MAX 90 OR ABOVE	MAX 32 OR BELOW	MIN 32 OR BELOW	MIN 0 OR BELOW	TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
MARYLAND																								
SOUTHERN EASTERN SHORE 01																								
ASSATEAGUE IS NATL SEA	60.1M	40.9M	50.5M		74	15	22	24	426	2	0	0	7	0	4.33		1.62	23	.0	0		8	2	1
CRISFIELD SOMERS COVE	57.6	43.6	50.6	.1	71	15+	27	30	424	0	0	0	5	0	2.33	-.76	1.25	9	.0	0		3	2	1
PRINCESS ANNE	59.6	37.0	48.3	.3	74	14	12	24	496	3	0	0	10	0	4.51	1.27	1.51	9	.0	0		6	3	2
SALISBURY	M	M	M																M	M				
SALISBURY FAA ARPT	57.5	36.3	46.9	-.8	75	14	13	24	540	6	0	1	12	0	2.69	-.37	.65	23	2.5	1	25+	9	2	0
SNOW HILL 4 N	58.9	36.7	47.8	-.7	76	14	15	24	510	2	0	0	13	0	3.10	-.28	1.26	23	3.0	3	23	6	2	1
--DIVISIONAL DATA-------->			48.8	-.1											3.39	.20			1.8					
CENTRAL EASTERN SHORE 02																								
CAMBRIDGE WATER TRMT P	59.0	38.6	48.8	.4	74	14	20	24	478	1	0	0	10	0	1.55	-2.17	.50	9	4.0	4	24+	4	1	0
DENTON 2 E	M	M	M																M	M				
ROYAL OAK 2 SSW	56.8	40.7	48.8	-.1	72	14	21	24	480	1	0	0	7	0	2.37	-1.36	.65	23	6.0	5	23	6	2	0
VIENNA	58.2	36.4	47.3	-1.7	71	14	14	24	525	0	0	0	12	0	3.41	.09	1.08	9	.0	0		6	3	1
--DIVISIONAL DATA-------->			48.3	-.2											2.44	-1.09			5.0					
LOWER SOUTHERN 03																								
LA PLATA 1 W	57.8	37.9	47.9	.6	77	14	14	24	505	2	0	0	10	0	2.33	-.87	.71	23	5.6	6	23	6	2	0
MECHANICSVILLE 5 NE	57.2	36.6	46.9		77	14	14	24	540	3	0	0	11	0	2.52		.84	8	5.5	5	23	5	2	0
OWINGS FERRY LANDING	57.1	36.9	47.0	-.9	74	14	12	24	533	1	0	0	10	0	2.74	-.59	.93	8	5.0	4	23	5	2	0
PATUXENT RIVER	57.8	39.8	48.8		75	14	19	24	487	6	0	0	8	0	2.59		.49	9	6.2	0		9	0	0
TALL TIMBERS	M	M	M																M	M				
--DIVISIONAL DATA-------->			47.7	-.3											2.55	-.79			5.6					
UPPER SOUTHERN 04																								
ANNAPOLIS POLICE BRKS	56.7	34.2	45.5		73	15+	14	24	578	0	0	0	14	0	1.73		.83	8	4.0	4	23	4	2	0
BALTIMORE WSO ARPT R	54.6	35.0	44.8	-1.5	77	14	17	24	600	1	0	0	13	0	1.97	-1.14	.51	8	3.8	4	23	6	1	0
BELTSVILLE	56.6	34.5	45.6	.6	75	15	13	24	580	4	0	0	16	0	2.61	-.36	.88	16	4.0	4	23	5	2	0
COLLEGE PARK	56.1	37.1	46.6	-.3	75	15	17	24	548	2	0	0	12	0	2.75	-.35	1.39	16	4.0	0		5	2	1
DALECARLIA RESVR DC	57.5	30.6	44.1	-2.9	77	14	12	24	621	0	0	0	18	0	2.90	-.25	1.46	16	.0	0		5	2	1
GLENN DALE BELL STN	58.7	33.7	46.2	-.1	78	14	9	24	557	1	0	0	14	0	2.38	-.96	.88	16	5.0	4	24+	5	2	0
LAUREL 3 W	55.6	37.4	46.5	-1.0	73	16+	20	23	546	1	0	0	11	0	3.17	-.23	2.05	16	5.5	0		5	1	1
NATIONAL ARBORETUM DC	M	M	M																M	M				
UPPER MARLBORO 3 NNW	M	M	M																M	M				
--DIVISIONAL DATA-------->			45.6	-1.0											2.50	-.63			4.2					
NORTHERN EASTERN SHORE 05																								
CHESTERTOWN	55.1	36.4	45.8	-1.2	75	14	19	24+	574	3	0	0	12	0	2.26	-1.20	.78	8	5.2	3	23	6	1	0
MILLINGTON 1 SE	57.1	36.5	46.8	.7	74	14	12	24	542	2	0	1	12	0	2.26	-1.21	.63	8	3.5	0		6	2	0
--DIVISIONAL DATA-------->			46.3	-.7											2.26	-1.14			5.2					
NORTHERN CENTRAL 06																								
ABERDEEN PHILLIPS FLD	M	M	M		72	14	18	24			0	0	3	0	1.51		.33	16+	T	T		5	0	0
BALTIMORE WSO CITY R	57.1	41.0	49.1	-.1	78	14	25	24+	479	7	0	0	8	0	1.92	-1.42	.54	16	M	M		5	2	0
BENSON POLICE BARRACKS	57.5	32.9	45.2	-.1	74	14	11	24	587	0	0	0	16	0	1.72	-2.17	.38	23	4.0		23	7	0	0
BOYDS 2 NW	54.6	35.3	45.0		74	14	20	30+	594	0	0	1	13	0	2.28		1.04	16	4.0	3	24+	4	2	1
CATOCTIN MOUNTAIN PARK	49.9	33.6	41.8		70	14	17	23	694	0	0	2	12	0	2.55		.84	16	M .0	3	23	6	1	0
CLARKSVILLE 3 NNE	56.4	33.3	44.9		75	15+	14	25	596	2	0	0	15	0	2.44		1.31	16	3.5	2	23	5	1	1
CONOWINGO DAM	56.1	30.0	43.1	-1.0	71	15+	11	24	649	0	0	0	18	0M	2.99		.46	10	5.3	0		11	0	0
DAMASCUS 2 SW	53.3	35.6	44.5		74	14	19	24	609	0	0	2	12	0	3.08		1.50	16	5.8	5	23	5	2	1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND DELAWARE
NOVEMBER 1989

STATION	TEMPERATURE (°F)									NO. OF DAYS MAX		NO. OF DAYS MIN		PRECIPITATION (IN)				SNOW, SLEET			NO. OF DAYS		
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW	TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
EMMITSBURG 2 SE	54.2	32.9	43.6		72	14	16	24	636	0	0	0	16	0	2.16		.65	16	3.0	2	23	9	1	0
FREDERICK POLICE BRKS	56.2	36.6	46.4		75	14	22	30+	552	0	0	0	13	0	2.23		.74	9	4.0	3	23	7	2	0
MILLERS 4 NE	52.7	34.0	43.4		73	14	14	24	641	0	0	2	13	0	2.35		1.30	16	3.1	3	23	5	1	1
ROCKVILLE 1 NE	53.8	37.4	45.6	-.7	74	14	24	24	579	1	0	1	11	0	2.86	-.20	1.92	16	3.5	3	22	5	1	1
TOWSON	55.1	35.9	45.5		74	15+	21	23	579	0	0	0	13	0	4.40	.57	1.15	16	.0	0		8	4	2
UNIONVILLE	55.3	31.1	43.2	.0	75	14	5	24	647	1	0	1	17	0	2.25	-.84	.99	16	4.0	0		5	2	0
WESTMINSTER POLICE BRK	54.2	31.4	42.8	-1.5	73	15+	16	23	659	0	0	1	16	0	2.40	-.81	1.41	16	4.0	4	23	4	2	1
WOODSTOCK	55.8	34.3	45.1	.4	75	15+	16	24	592	1	0	1	15	0	2.63	-.65	1.65	16	4.0	3	23	5	1	1
--DIVISIONAL DATA-------->			44.6	-.6											2.45	-.90			3.5					
APPALACHIAN MOUNTAIN 07																								
CUMBERLAND 2	54.2	30.5	42.4	-1.7	71	14	20	19+	671	0	0	0	21	0	2.35	-.06	.98	16	3.0	2	23	6	1	0
FROSTBURG 2	47.3	29.1	38.2		69	15	15	20+	795	0	0	6	20	0	3.17		.93	16	11.2	5	23	8	3	0
HAGERSTOWN	53.4	32.7	43.1	-1.2	75	15	19	23	654	0	0	1	15	0	2.70	-.32	1.05	16	3.0	3	23	7	2	1
HANCOCK	54.9	30.2	42.6	-.2	76	16	17	24	665	0	0	0	23	0	3.15	.48	1.58	16	.0	0		7	2	1
--DIVISIONAL DATA-------->			41.6	-2.0											2.84	.10			4.3					
ALLEGHENY PLATEAU 08																								
MC HENRY 2 NW	46.6	28.1	37.4		70	14	13	20+	823	0	0	6	19	0	4.33		.90	16	11.5	2	24+	12	3	0
OAKLAND 1 SE	49.7	28.3	39.0	-.2	71	13	10	25	772	0	0	5	20	0	3.66	.52	.96	16	5.5	2	24+	8	2	0
SAVAGE RIVER DAM	49.8	28.1	39.0	-1.3	70	15	17	20+	775	0	0	4	24	0	M 2.54		.82	16	4.5	2	23	5	2	0
--DIVISIONAL DATA-------->			38.5	-.6											4.00	1.00			7.2					
DELAWARE																								
NORTHERN 01																								
NEWARK UNIVERSITY FARM	55.9	34.3	45.1	-.7	73	14	15	30	591	0	0	1	13	0	2.19	-1.00	.70	9	M .0	0	23	7	1	0
WILMINGTON WSO ARPT R	53.6	35.6	44.6	-1.0	72	14	20	23	605	0	0	1	10	0	1.99	-1.34	.60	8	5.6	6	23	8	1	0
WILMINGTON PORTER RSVR	52.5	36.3	44.4	-.8	71	14	20	24	612	0	0	1	10	0	2.10	-1.66	.53	8	4.5	0		8	1	0
--DIVISIONAL DATA-------->			44.7	-1.1											2.09	-1.29			5.1					
SOUTHERN 02																								
DOVER	57.4	38.1	47.8	-.4	73	16+	21	24	508	0	0	0	10	0	2.20	-1.33	1.31	9	5.9	5	23	5	1	1
GEORGETOWN 5 SW	57.5	36.5	47.0	-.2	75	15	16	24	537	7	0	0	13	0	5.03	1.74	1.34	15	M .0	4	23	7	4	2
GREENWOOD 2 NE	M	M	M																M	M				
LEWES	58.2	40.6	49.4	1.4	77	14	20	24	464	4	0	0	7	0	3.57	.08	.91	9	5.9	5	23	5	4	0
MILFORD 4 SE	56.9	38.0	47.5	-.1	75	14	14	24	524	3	0	1	9	0	3.65	.22	.85	9	6.0	6	23	6	5	0
--DIVISIONAL DATA-------->			47.9	.1											3.61	.24			6.0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND DELAWARE
NOVEMBER 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 IS NATL SEA	4.33	.14		.43	.02			.11	.01	.95	.41					.48	T	.16					1.62								
CRISFIELD SOMERS COVE	2.33			.40				.08		1.25							.60														
PRINCESS ANNE	4.51			.41			.09	.07	.36	1.51						.81	.26						1.00								
SALISBURY	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SALISBURY FAA ARPT	2.69		.15	.31			.15		.34	.12						.54	.14					.29	.65				T				
SNOW HILL 4 N	3.10	.03		.42			T	.09	.34	.61						.24	.11						1.26			T			T		
CENTRAL EASTERN SHORE 02																															
CAMBRIDGE WATER TRMT P	1.55	.05		.35			.01	.05		.50						.12	.08						.39		T	T					
DENTON 2 E	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROYAL OAK 2 SSW	2.37			.23			.02		.54	.36						.20	.35						.65			T		.02			
VIENNA	3.41			.42				.06	.61	1.08						.63	.24						.37								
LOWER SOUTHERN 03																															
LA PLATA 1 W	2.33	.10	.01	.23			.01		.63	.27					T	.03	.32					T	.71			.02		T			
MECHANICSVILLE 5 NE	2.52	.07		.21			.02	.01	.84	.17						T	.45					T	.75			T	T	T			
OWINGS FERRY LANDING	2.74	.06		.17					.93	.43						.03	.45						.67								
PATUXENT RIVER	2.59		.29	.19			.06		.40	.49					T	.18	.16					.30	.32			T	.20				
TALL TIMBERS	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UPPER SOUTHERN 04																															
ANNAPOLIS POLICE BRKS	1.73			.14	.01				.83	.09						.04	.50						.10				.02				
BALTIMORE WSO ARPT R	*1.97*		*.10*	.06			T		.51	.17	T				T	.05	.48				.01	.02	.23	.30			.02	.02	T		
BELTSVILLE	2.61	.03		.20	.01			.02	T	.65						.08	.88	.43					.29					.02			
COLLEGE PARK	2.75	.11		.18						.69							1.39						.38					T			
DALECARLIA RESVR DC	2.90	.05		.20					.53	.08						.07	1.46	.10					.40					.01			
GLENN DALE BELL STN	2.38	.05		.24			T		.53	.11					T	.08	.88						.45			.03		.01			
LAUREL 3 W	3.17	T	.01	.03					.44	.10						.08	2.05				.05		.22	.15			.01	.03			
NATIONAL ARBORETUM DC	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UPPER MARLBORO 3 NNW	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTHERN EASTERN SHORE 05																															
CHESTERTOWN	2.26		.05	.17			.01		.78	.37						.07	.32						.17	.30			T	.02	T		
MILLINGTON 1 SE	2.26			.20					.63	.37						.33	.17					T		.54			.02		T		
NORTHERN CENTRAL 06																															
ABERDEEN PHILLIPS FLD	1.51	.02		.15	*	*	.02		.30	.33						.07	.33					T		.29	T				T			
BALTIMORE WSO CITY R	1.92		.08	.03					.50	.11						.07	.54					.03	.25	.28			.02	.01				
BENSON POLICE BARRACKS	1.72	.05		.12					.30	.30	T					.10	.33					.02		.38			.02		.10		
BOYDS 2 NW	2.28								.21	.72							1.04							.31							
BRIGHTON DAM	3.65		.30	.40					.60	.30							1.40				.10		.20	.20			.10	.05			
CATOCTIN MOUNTAIN PARK	2.55		.20				.06		.40	.38	.02					.04	.84					.04		.32			.02	.04	.19		
CLARKSVILLE 3 NNE	2.44	.06		.13			T		.24	.31							1.31					.06		.27			.03		.03		
CONOWINGO DAM	M 2.99	.35		.11					.31	.35	.46					.14	.14	.41	.03	.04	.06	.04	-	.33			T	.11	.11		
DAMASCUS 2 SW	3.08	.09	.02	.11			.01		.21	.58	T					.08	1.50					.06	.01	.31			.02	.07	.01		
EMMITSBURG 2 SE	2.16			.10			.14		.39	.28	.10					.10	.65					T		.30					.10		
FREDERICK POLICE BRKS	2.23			.10					.12	.74						.04	.55					.10		.40				.03	.15		
FREDERICK 3 E	2.02	.09	.05				.02		T	.38	.27	T				.07	.50	.19				T		.30		T			.15	T	
MILLERS 4 NE	2.35	.13	T	.06					.18	.34	T					T	1.30				T	T		.24			T	.01	.09		
POTOMAC FILTER PLANT	2.82	.01	.01	.12					.29	.07						.08	1.88						.20	.11			.02	.03			
ROCKVILLE 1 NE	2.86	T	.10	.05			T	T	.31	.15					T	T	1.92				T		.22	.08			T	.03	T		
TOWSON	4.40	.30	.01	.13					.34	.25		.60				.06	1.15							1.00	.01		.05		.50		
UNIONVILLE	2.25	.04		.06			T		.13	.55						.04	.99					.04		.28				.02	.10		
WESTMINSTER POLICE BRK	2.40	.02		.03				T	.17	.56						.02	1.41					.05		.10			.04				
WOODSTOCK	2.63	.09	T	.10					.19	.23					T		1.65					.03		.31			.03				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND DELAWARE
NOVEMBER 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	2.35	.35					.02			.48		.03				.04	.98	T				.10		.21			T	.02	.12			
EDGEMONT	2.80	.17		.03						.68	.31	.03				.03	.99	.14				.05	T	.23			T		.14	T		
FROSTBURG 2	3.17	.52		.01	T		.05		T	.50	.10	.16				.08	.93	.09	T	.04		.12	.02	.21	.03	T	.03	.08	.18	.01	.01	
HAGERSTOWN	2.70	.24		.02			.01			.62		.20				.02	1.05	.11				.04		.20			.01		.18			
HANCOCK	3.15	.57					.02			.43						.10	1.58					.10		.10			.03		.22			
ALLEGHENY PLATEAU 08																																
MC HENRY 2 NW	4.33	.53		T	.09		.01		T	.70	.10	.15				.32	.90	.18	.05	.16		.07	T	.16	.05		.20	.20	.38	T	.08	
MERRILL	M 2.58						.06		T	.50	.10					.27	.95	.11	T		.02	.03	T	-	.12		.06	.14	.22		T	
OAKLAND 1 SE	3.66	.06		.09	T			T	.31	.59	.21					.47	.96	.07	.05	T				.19	T		.25	.03	.38	T	T	
SAVAGE RIVER DAM	M 2.54	.33		T	T		.03		T	.62	.06	.08				.06	.82	T		T	T	.03	-	.17	T		.03	T	.31	T	T	
DELAWARE																																
NORTHERN 01																																
NEWARK UNIVERSITY FARM	2.19	.05		.18					.34	.70						.10	.29							.42					.11			
WILMINGTON WSO ARPT R	1.99	T	.02	.14			T		.60	.39	T					.11	.23				T		.18	.20			T	.12	T		
WILMINGTON PORTER RSVR	2.10		.01	.18			T	T	.53	.35						.18	.33				T		.22	.14			.02	.14	T		
SOUTHERN 02																																
DOVER	2.20	.03		.38			T		.16	1.31						.02	.20							.10								
GEORGETOWN 5 SW	5.03	.18		.40			.02	.09	.02	1.20	.93					1.34	.05	.16						.64								
GREENWOOD 2 NE	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LEWES	3.57	.02	T	.64					.09	.91						.79	.28		T					.80			T	.04	T			
MILFORD 4 SE	3.65			.50			.04		.56	.85						.82	.21							.67								

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STATION	OB. TIME	MAX/MIN	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	AVERAGE
MARYLAND																																		
SOUTHERN EASTERN SHORE 01																																		
ASSATEAGUE IS NATL SEA	07	MAX	67	69	65	59	59	63	70	66	67	67	63	61	71	66	74	70	70	50	55	53	62		35 ***	38	40	50	62	60	65	46		60.1
		OBS																																
		MIN	53	47	44	35	41	53	51	54	55	38	38	47	44	54	59	60	34	36	29	31		28	30 ***	22	28	36	34	42	40	24		40.9
		OBS																																
CRISFIELD SOMERS COVE	17	MAX	70	60	58	53	63	63	62	63	66	61	59	61	65	71	71	66	57	57	53	57	57	41	33 ***	38	47	58	55	60	59	44		57.6
		OBS																																
		MIN	58	45	50	38	41	53	55	55	52	43	46	52	43	58	58	57	41	41	33	42	40	28	30 ***	28	28	45	41	41	39	27		43.6
		OBS												38																				
PRINCESS ANNE	17	MAX	68	64	61	54	64	67	64	64	69	63	60	68	66	74	73	71	56	54	51	61	62	39	36	38	48	61	58	66	63	46		59.6
		MIN	49	38	36	29	33	40	50	47	55	35	30	46	33	53	62	55	35	31	29	34	38	26	24	12	18	43	29	43	37	19		37.0
		OBS														34																		
SALISBURY	17	MAX																																M
		MIN																																M
SALISBURY FAA ARPT	MID	MAX	62	60	56	53	63	69	63	68	69	62	61	68	66	75	74	71	46	53	46	62	52	36	32	38	46	60	56	67	47	45		57.5
		MIN	42	38	35	31	35	40	53	48	49	38	32	43	35	58	64	43	33	30	28	45	31	27	15	13	21	37	29	47	28	20		36.3
SNOW HILL 4 N	18	MAX	66	60	58	54	64	69	63	64	67	64	60	70	66	76	72	69	54	56	49	62	62	37	35	37	45	61	53	66	63	46		58.9
		MIN	48	36	49	28	33	31	48	46	56	35	30	47	33	53	62	54	32	29	24	32	37	23	27	15	20	40	29	48	37	20		36.7
CENTRAL EASTERN SHORE 02																																		
CAMBRIDGE WATER TRMT P	16	MAX	69	60	57	53	63	64	61	60	62	62	61	67	65	74	73	70	59	53	53	63	64	40	33	41	48	59	59	69	62	47		59.0
		MIN	54	48	48	38	38	45	54	45	56	36	34	52	41	54	59	35	31	31	32	35	22	27	25	20	23	38	30	47	38	22		38.6
DENTON 2 E	17	MAX																																M
		MIN																																M
ROYAL OAK 2 SSW	18	MAX	67	58	56	52	61	61	58	57	65	60	61	65	64	72	70	68	51	53	49	60	62	37	33	40	46	58	53	61	60	46		56.8
		MIN	54	42	48	32	38	52	54	46	57	37	34	54	35	56	61	50	36	41	31	41	37	28	26	21	24	42	35	48	37	24		40.7
VIENNA	18	MAX	68	60	57	52	54	65	61	63	67	61	60	69	66	71	70	70	55	55	55	61	55	40	36	40	47	59	56	68	61	44		58.2
		OBS																											74					
		MIN	50	38	44	29	33	45	51	45	52	34	38	55	33	53	58	49	31	31	25	35	22	23	21	14	21	35	29	46	30	21		36.4
LOWER SOUTHERN 03																																		
LA PLATA 1 W	18	MAX	62	56	55	52	62	61	60	59	65	59	63	68	66	77	74	69	48	55	48	66	61	38	34	41	48	63	55	66	56	48		57.8
		MIN	46	39	43	29	36	50	53	46	52	34	30	48	35	54	58	48	29	34	28	38	36	27	26	14	27	40	32	47	36	23		37.9
MECHANICSVILLE 5 NE	19	MAX	63	56	55	52	61	60	60	59	66	59	62	69	63	77	74	69	48	54	46	64	60	35	33	40	47	62	52	67	55	47		57.2
		MIN	47	37	43	28	33	45	53	46	49	34	28	48	33	54	60	48	27	30	27	36	35	25	25	14	25	38	29	47	33	21		36.6
OWINGS FERRY LANDING	17	MAX	64	56	56	51	62	61	60	59	65	58	62	68	64	74	73	68	50	53	45	64	63	35	33	39	47	59	54	65	59	46		57.1
		MIN	48	38	46	28	33	48	51	45	55	34	29	46	35	51	58	50	33	29	28	35	35	26	25	12	22	36	30	46	35	20		36.9
PATUXENT RIVER	MID	MAX	62	58	56	52	61	65	60	66	68	63	64	71	64	75	74	68	47	55	46	63	51	40	33	41	49	65	53	68	46	49		57.8
		MIN	48	48	41	37	39	53	54	46	43	38	35	49	43	61	62	41	35	34	31	46	32	30	25	19	31	38	33	46	30	25		39.8
TALL TIMBERS	17	MAX																																M
		MIN																																M
UPPER SOUTHERN 04																																		
ANNAPOLIS POLICE BRKS	17	MAX	67	57	56	49	60	63	61	59	66	59	61	66	61	73	73	66	53	50	44	64	62	34	34	41	43	58	52	66	61	41		56.7
		MIN	47	36	43	28	33	47	42	42	51	32	28	43	34	45	52	42	28	29	22	34	30	22	20	14	21	37	31	42	30	20		34.2
BALTIMORE WSO ARPT	MID	MAX	58	55	52	50	61	61	58	58	66	57	59	61	63	77	74	66	44	50	42	66	46	35	35	38	47	58	50	63	44	45		54.6
		MIN	43	39	35	28	34	50	41	48	48	34	29	40	35	51	58	38	30	28	26	41	30	24	22	17	23	39	32	44	22	21		35.0
BELTSVILLE	08	MAX	68	68	55	53	52	62	60	60	65	66	58	59	61	66	75	74	69	45	50	50	67	40	35	33	40	48	58	56	65	40		56.6
		MIN	49	38	46	30	30	47	41	44	44	32	29	28	31	42	57	61	33	25	26	30	33	25	24	13	23	32	29	35	36	21		34.5
COLLEGE PARK	09	MAX	67	59	56	53	52	61	60	58	65	65	58	60	62	65	75	74	53	45	50	52	67	40	35	36	42	50	59	60	64	40		56.1
		MIN	49	40	47	29	32	45	42	47	53	34	30	43	33	45	59	49	33	29	27	31	37	28	27	17	28	41	32	44	38	24		37.1
		OBS																												***				

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MARYLAND AND DELAWARE
NOVEMBER 1989

STATION	OB. TIME	MAX/MIN	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	AVERAGE
DALECARLIA RESVR DC	17	MAX	66	57	49	53	60	61	60	59	65	58	62	65	65	77	76	69	49	52	46	64	63	37	38	42	48	59	54	66	58	48		57.5
		MIN	43	34	29	23	29	42	40	45	48	37	24	37	28	40	52	31	25	22	20	34	24	22	19	12	19	30	24	39	28	17		30.6
		OBS													43																			
GLENN DALE BELL STN	16	MAX	67	60	55	54	62	62	61	60	65	62	58	65	66	78	75	72	54	46	53	66	66	38	33	44	43	60	59	65	62	49		58.7
		MIN	37	34	45	24	30	47	41	43	53	31	25	43	29	43	56	46	30	23	23	37	35	23	28	9	21	35	26	43	35	16		33.7
		OBS																										21						
LAUREL 3 W	MID	MAX	58	58	54	52	62	61	58	59	65	56	60	63	65	73	73	73	46	51	43	68	49	35	35	39	47	57	53	64	44	48		55.6
		MIN	48	43	37	32	37	48	44	50	49	38	35	44	53	52	58	37	35	30	27	38	30	26	20	22	29	39	30	42	27	23		37.4
NATIONAL ARBORETUM DC	08	MAX																																M
		MIN																																M
UPPER MARLBORO 3 NNW	08	MAX																																M
		MIN																																M
NORTHERN EASTERN SHORE	05																																	
CHESTERTOWN	23	MAX	62	56	53	52	62	61	57	61	65	56	59	61	66	75	73	70	44	50	45	63	49	34	34	38	47	56	54	62	45	44		55.1
		MIN	44	40	38	30	36	48	47	46	47	36	33	42	34	59	59	40	31	31	28	43	30	24	19	19	25	40	31	43	26	22		36.4
MILLINGTON 1 SE	18	MAX	66	56	54	54	61	62	57	58	66	57	59	63	64	74	71	71	70	50	42	63	63	41	31	40	45	58	53	62	57	45		57.1
		OBS																	49					63										
		MIN	49	39	44	28	35	47	44	47	54	35	31	43	32	47	60	61	34	28	28	36	35	25	24	12	19	31	29	43	33	22		36.5
NORTHERN CENTRAL	06																																	
ABERDEEN PHILLIPS FLD	16	MAX	70	58	54			60	60	58	65				61	72	71	69	50			63	59	38		38			51	62	59	44		M
		MIN	52	43	47			53	42	53	55				39	47	58	50	33			42	37	26		18			34	50	36	26		M
BALTIMORE WSO CITY	MID	MAX	63	57	53	53	62	64	60	60	68	60	61	65	64	78	77	68	49	52	45	71	47	36	34	44	50	61	52	65	46	49		57.1
		MIN	51	47	41	35	42	56	51	56	52	45	40	48	43	56	62	40	35	33	28	43	30	26	25	25	30	44	42	46	30	27		41.0
BENSON POLICE BARRACKS	17	MAX	70	57	53	53	62	62	65	60	65	57	60	63	63	74	73	67	50	50	44	66	65	38	35	40	48	59	54	65	63	45		57.5
		MIN	45	36	41	25	29	44	37	48	50	32	27	39	30	46	53	46	28	24	22	33	30	20	21	11	20	33	30	38	30	19		32.9
BOYDS 2 NW	18	MAX	58	55	51	50	59	60	62	56	61	55	57	61	64	74	72	69	43	47	40	67	64	33	32	39	45	57	50	62	52	44		54.6
		MIN	45	40	43	29	35	48	40	48	46	36	32	48	38	51	50	41	29	27	22	32	30	20	21	20	23	38	37	40	30	20		35.3
CATOCTIN MOUNTAIN PARK	17	MAX	60	48	45	44	56	59	58	55	57	48	53	58	55	70	67	63	38	41	33	62	56	29	29	34	44	50	43	58	48	37		49.9
		MIN	42	38	38	26	34	45	44	49	48	36	33	45	33	50	53	37	25	27	19	32	22	19	17	18	23	34	34	42	24	20		33.6
		OBS	56																															
CLARKSVILLE 3 NNE	17	MAX	66	54	54	51	60	63	60	58	65	57	60	62	64	75	75	69	46	50	41	68	63	36	34	40	47	58	51	64	56	46		56.4
		MIN	47	35	47	24	28	48	35	52	53	30	25	37	28	40	58	46	28	22	22	35	33	19	23	15	14	36	26	44	32	18		33.3
CONOWINGO DAM	MID	MAX	63	57	53	52	61	62	63	60	65	58	60	65	65	71	71	70	48	52	47	67	44	36	40	42	47	56	52	64	45	46		56.1
		MIN	38	35	32	24	30	41	38	48	37	30	27	36	28	40	56	31	24	25	22	33	23	21	14	11	19	35	27	37	20	17		30.0
DAMASCUS 2 SW	19	MAX	62	54	50	49	59	60	59	55	61	53	56	60	62	74	72	67	41	46	38	64	61	31	32	36	44	54	47	61	48	43		53.3
		MIN	44	39	39	27	35	48	45	48	48	37	32	48	37	53	57	39	28	29	23	37	29	21	21	19	25	38	37	39	26	21		35.6
EMMITSBURG 2 SE	17	MAX	65	53	53	48	59	61	60	55	59	53	56	59	62	72	71	67	44	47	36	67	62	35	34	38	41	56	52	64	53	43		54.2
		MIN	46	34	42	23	27	42	34	45	52	32	27	42	28	46	56	44	30	21	21	34	31	19	20	16	19	36	28	39	30	23		32.9
FREDERICK POLICE BRKS	17	MAX	67	56	54	49	60	63	63	56	60	56	58	61	63	75	73	69	46	48	42	67	67	36	34	39	44	56	56	64	59	44		56.2
		MIN	46	38	45	31	31	48	41	50	52	36	30	44	35	49	56	45	31	27	25	36	32	26	24	22	24	32	45	41	33	22		36.6
MILLERS 4 NE	18	MAX	62	54	48	48	58	63	63	55	61	51	55	57	59	73	72	65	40	45	35	61	59	30	32	35	44	55	50	61	49	41		52.7
		MIN	45	35	38	25	31	48	39	50	44	34	29	45	33	50	56	40	29	26	22	35	29	20	22	14	25	38	34	39	27	18		34.0
ROCKVILLE 1 NE	MID	MAX	56	55	51	50	60	62	58	59	64	54	58	61	63	74	72	67	43	49	45	66	45	35	34	31	47	56	50	62	43	44		53.8
		MIN	44	41	36	30	34	49	44	53	46	40	31	45	36	55	60	37	33	30	27	44	29	27	25	24	29	43	34	44	25	26		37.4
TOWSON	18	MAX	65	56	52	49	58	61	61	56	64	55	57	60	60	74	74	65	46	49	42	65	61	34	33	38	46	57	51	64	55	44		55.1
		OBS																	56															
		MIN	50	39	42	29	35	48	41	49	51	33	30	48	35	50	56	42	29	27	23	36	25	22	21	28	26	39	32	39	29	22		35.9
		OBS																														38		
UNIONVILLE	18	MAX	64	55	52	51	61	63	63	58	63	54	57	62	64	75	73	67	65	49	38	66	61	33	32	40	45	57	50	64	52	45		55.3
		OBS																				46												
		MIN	44	33	39	22	27	49	38	50	40	28	24	35	27	47	58	44	29	20	17	35	30	17	20	5	16	31	24	40	27	16		31.1

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STATION	OB. TIME	MAX/MIN	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	AVERAGE
WESTMINSTER POLICE BRK	17	MAX	66	54	51	47	58	64	64	55	63	55	56	62	61	73	73	68	40	44	39	63	63	35	32	35	44	54	49	61	55	41		54.2
		MIN	39	36	35	24	29	42	41	45	45	33	27	38	31	45	50	34	26	19	26	30	30	19	16	17	19	29	33	38	29	18		31.4
		OBS												29																				
WOODSTOCK	18	MAX	64	53	52	51	61	63	61	57	64	55	60	63	64	75	75	68	45	50	40	66	61	32	35	40	48	58	51	63	53	45		55.8
		MIN	46	37	43	26	30	48	38	51	49	34	27	48	30	48	57	38	29	24	22	35	31	22	23	16	20	38	30	40	30	20		34.3
APPALACHIAN MOUNTAIN 07																																		
CUMBERLAND 2	18	MAX	60	49	48	51	63	68	63	54	56	49	64	64	66	71	70	65	38	40	53	65	60	33	34	40	59	55	47	58	43	41		54.2
		MIN	33	34	25	25	32	39	40	46	46	28	29	32	33	41	46	29	24	20	20	28	24	22	22	22	24	31	32	31	27	30		30.5
FROSTBURG 2	07	MAX	62	47	44	38	42	55	60	58	53	51	41	60	50	59	69	64	49	30	33	46	55	32	25	24	31	51	47	59	57	26		47.3
		MIN	37	33	35	22	22	31	42	40	48	31	28	27	35	34	53	49	22	22	15	15	22	17	18	17	20	28	32	32	26	19		29.1
HAGERSTOWN	08	MAX	66	57	53	48	48	60	66	60	56	58	52	59	59	63	75	71	55	42	47	44	67	36	32	34	41	50	55	50	63	35		53.4
		MIN	44	35	37	27	30	36	41	42	46	36	31	33	35	39	53	39	29	27	21	29	31	22	19	20	25	36	31	33	32	22		32.7
HANCOCK	08	MAX	64	60	52	50	52	63	70	61	55	59	52	64	60	68	75	76	53	43	50	53	69	38	34	36	42	43	55	49	62	39		54.9
		MIN	45	31	32	21	25	32	34	38	47	31	25	30	27	31	51	51	31	20	18	25	32	26	20	17	18	30	26	28	33	30		30.2
ALLEGHENY PLATEAU 08																																		
MC HENRY 2 NW	08	MAX	65	45	49	34	44	59	59	62	57	49	37	56	49	70	67	65	38	27	29	42	54	26	26	28	34	48	45	59	50	25		46.6
		OBS																	65															
		MIN	34	34	31	22	23	36	43	43	49	32	27	30	37	40	51	36	18	18	13	13	20	14	16	16	17	33	31	31	21	15		28.1
OAKLAND 1 SE	17	MAX	57	47	46	49	59	58	61	61	57	44	54	59	71	69	65	62	30	30	40	56	53	27	27	31	49	47	47	61	39	34		49.7
		MIN	36	28	31	17	23	48	30	41	40	31	26	41	28	40	49	28	20	18	11	40	22	14	17	18	10	41	24	38	21	19		28.3
SAVAGE RIVER DAM	08	MAX	65	50	49	40	47	58	63	60	55	53	40	63	55	63	70	66	42	34	37	51	59	32	30	29	35	52	50	58	58	31		49.8
		MIN	40	30	31	22	23	28	35	36	48	29	27	26	30	32	42	41	25	20	17	17	26	20	22	22	19	22	30	31	29	23		28.1
DELAWARE																																		
NORTHERN 01																																		
NEWARK UNIVERSITY FARM	17	MAX	65	56	53	51	61	60	63	60	66	61	59	59	63	73	72	71	49	49	42	63	60	35	32	37	46	55	53	62	58	43		55.9
		MIN	44	38	36	27	33	45	39	53	50	34	30	41	31	41	58	48	27	29	25	34	33	23	24	17	17	33	32	40	31	15		34.3
		OBS																								27								
WILMINGTON WSO ARPT	MID	MAX	60	55	51	49	59	60	61	60	66	56	56	59	59	72	71	70	44	49	42	63	44	34	32	37	43	55	52	62	44	44		53.6
		MIN	42	39	35	30	33	48	40	50	44	41	36	42	39	46	59	39	34	28	25	40	27	22	20	21	21	41	35	44	25	23		35.6
WILMINGTON PORTER RSVR	MID	MAX	60	55	49	48	59	59	62	59	63	55	56	57	58	71	68	69	42	47	40	61	42	33	32	36	44	53	50	61	44	42		52.5
		MIN	45	43	35	32	37	47	45	49	46	38	35	41	35	51	60	38	33	30	26	40	26	23	21	20	25	39	36	42	26	24		36.3
SOUTHERN 02																																		
DOVER	17	MAX	70	60	60	54	61	64	61	63	64	56	61	61	62	73	73	73	54	54	49	57	59	39	34	44	47	51	54	64	59	42		57.4
		MIN	54	48	46	32	39	39	46	47	42	39	36	39	35	55	54	49	31	30	26	40	34	22	23	21	26	40	41	49	32	27		38.1
GEORGETOWN 5 SW	08	MAX	68	60	59	55	56	63	67	62	68	57	67	59	66	66	75	73	72	53	47	50	61	41	34	35	37	48	57	60	67	42		57.5
		OBS																						33										
		MIN	50	38	44	30	42	42	50	49	53	34	30	39	33	38	62	63	33	25	27	29	28	28	23	16	24	31	29	45	39	22		36.5
GREENWOOD 2 NE	18	MAX																																M
		MIN																																M
LEWES	17	MAX	66	58	58	58	62	69	60	60	69	61	59	65	64	77	73	73	50	52	47	62	61	35	35	39	48	58	53	67	61	45		58.2
		MIN	53	49	47	37	39	39	52	52	56	40	39	53	44	55	63	50	35	36	29	29	34	27	27	20	24	41	36	52	37	24		40.6
MILFORD 4 SE	17	MAX	64	57	55	50	62	65	59	59	67	62	59	65	64	75	73	72	50	52	51	61	55	36	32	39	46	57	51	64	62	42		56.9
		OBS																		***														
		MIN	51	41	43	31	36	43	47	53	56	36	32	51	41	53	62	50	34	33	28	33	36	25	26	14	18	39	29	46	34	20		38.0
		OBS																		***														

SEE REFERENCE NOTES FOLLOWING STATION INDEX

SNOWFALL AND SNOW ON GROUND (INCHES)

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 ARPT	SNOWFALL																						2.0	.5							
	SN ON GND																							1	1	1					
SNOW HILL 4 N	SNOWFALL																							3.0							
	SN ON GND																							3	2	T					
CENTRAL EASTERN SHORE 02																															
CAMBRIDGE WATER TRMT P	SNOWFALL																							4.0							
	SN ON GND																							4	4						
ROYAL OAK 2 SSW	SNOWFALL																							6.0							
	SN ON GND																							5	3	T					
LOWER SOUTHERN 03																															
LA PLATA 1 W	SNOWFALL																						T	5.6							
	SN ON GND																						T	6	5	3	T				
MECHANICSVILLE 5 NE	SNOWFALL																						T	5.5							
	SN ON GND																						T	5	4	2	T				
OWINGS FERRY LANDING	SNOWFALL																							5.0							
	SN ON GND																							4	2	1					
PATUXENT RIVER	SNOWFALL																						3.0	3.2							
	SN ON GND																						-	-	-						
UPPER SOUTHERN 04																															
ANNAPOLIS POLICE BRKS	SNOWFALL																							4.0							
	SN ON GND																							4	3						
BALTIMORE WSO ARPT R	SNOWFALL																						2.0	1.8							
	SN ON GND																							4	3	1					
	WTR EQUIV																							.4	.3						
BELTSVILLE	SNOWFALL																							4.0							
	SN ON GND																							4	3	1	T				
COLLEGE PARK	SNOWFALL																							4.0							
	SN ON GND																							-	-						
GLENN DALE BELL STN	SNOWFALL																							5.0							
	SN ON GND																							4	4						
NORTHERN EASTERN SHORE 05																															
CHESTERTOWN	SNOWFALL																						2.0	3.2							
	SN ON GND																						1	3	2	T					
NORTHERN CENTRAL 06																															
ABERDEEN PHILLIPS FLD	SNOWFALL																								T						
	SN ON GND																								T						
BENSON POLICE BARRACKS	SNOWFALL																							4.0							
	SN ON GND																							2	T						
BOYDS 2 NW	SNOWFALL																							4.0							
	SN ON GND																							3	3	T					

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

SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND DELAWARE
NOVEMBER 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
CATOCTIN MOUNTAIN PARK	SNOWFALL																							-							
	SN ON GND																							3	2	1						
CLARKSVILLE 3 NNE	SNOWFALL																						.	3.5							
	SN ON GND																							2							
DAMASCUS 2 SW	SNOWFALL																					T	.1	5.7							
	SN ON GND																						T	5	3	2					
EMMITSBURG 2 SE	SNOWFALL																							3.0							
	SN ON GND																							2	1						
FREDERICK POLICE BRKS	SNOWFALL																							4.0							
	SN ON GND																							3	1						
MILLERS 4 NE	SNOWFALL																				T	T		3.1							
	SN ON GND																							3	2	T					
ROCKVILLE 1 NE	SNOWFALL																						2.5	1.0							
	SN ON GND																						3	2	2	T					
WESTMINSTER POLICE BRK	SNOWFALL																							4.0							
	SN ON GND																							4	1						
WOODSTOCK	SNOWFALL																							4.0							
	SN ON GND																							3	2	1					
APPALACHIAN MOUNTAIN 07																															
CUMBERLAND 2	SNOWFALL																					1.0		2.0							
	SN ON GND																					1		2	1	1					
FROSTBURG 2	SNOWFALL				T							.3						1.0	T	1.5		3.5	.2	4.0	.3	T					.4
	SN ON GND																	1	T	T		3	2	5	4	3	T				T
HAGERSTOWN	SNOWFALL																							3.0							
	SN ON GND																							3	2	1					
ALLEGHENY PLATEAU 08																															
MC HENRY 2 NW	SNOWFALL			T	1.0						T	1.5						2.0	.5	2.0		1.0	T	2.0	.5						1.0
	SN ON GND			T	T						T	T						1	1	2	T	1	T	2	2	1					1
MERRILL	SNOWFALL																	1.0			T	T	T	1.0	2.0						T
	SN ON GND																	1	1		T	T	T	1	2	1						T
OAKLAND 1 SE	SNOWFALL			T													1.0	1.0	1.0				2.5						T		T
	SN ON GND																T	1	2	T				-	2							
SAVAGE RIVER DAM	SNOWFALL				T													T		T		1.0	.5	2.0	1.0					T		T
	SN ON GND																	T		T		1	1	2	1							T
DELAWARE																															
NORTHERN 01																															
NEWARK UNIVERSITY FARM	SNOWFALL																							-							
	SN ON GND																							5	3						
WILMINGTON WSO ARPT R	SNOWFALL																						1.9	3.7							
	SN ON GND																							6	3	2	T				
	WTR EQUIV																							.3	.2						
WILMINGTON PORTER RSVR	SNOWFALL																						2.5	2.0							
	SN ON GND																						-	-	-						
SOUTHERN 02																															
DOVER	SNOWFALL																							5.9							
	SN ON GND																							5	4	1					

SNOWFALL: INCLUDES SNOW AND ICE. VALUES FOR NWS STATIONS (J INDEX NOTE) ARE MID-MID (LST).
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

SNOWFALL AND SNOW ON GROUND (INCHES)

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
GEORGETOWN 5 SW	SNOWFALL																							-								
	SN ON GND																							4	3	2						
MILFORD 4 SE	SNOWFALL																							6.0								
	SN ON GND																							6	4	1						

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

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES (LOCAL STD TIME) TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	OBSERVER
MARYLAND											
ABERDEEN PHILLIPS FLD	00150	06	HARFORD	39 28	76 10W	57	16	16		C H	ROSS AVIATION INC
ANNAPOLIS POLICE BRKS	01930	04	ANNE ARUNDEL	38 59	76 30W	30	17	17		H	ANNAPOLIS POLICE BRKS
ASSATEAGUE IS NATL SEA	03350	01	WORCESTER	38 14	75 8W	7	07	07		H	NATIONAL PARK SERVICE
BALTIMORE WSO ARPT R	04650	04	ANNE ARUNDEL	39 11	76 40W	148	MID	MID		C H J	NATL WEATHER SERVICE
BALTIMORE WSO CITY # R	04700	06	BALTIMORE CI	39 17	76 37W	14	MID	MID		C	OCMI COMMANDING OFFICER
BELTSVILLE	07000	04	PRINCE GEORG	39 2	76 53W	120	08	08	08	C H	US DEPT OF AGRICULTURE
BENSON POLICE BARRACKS	07320	06	HARFORD	39 30	76 23W	365	17	17		H	MARYLAND STATE POLICE
BOYDS 2 NW	10320	06	MONTGOMERY	39 13	77 20W	581	18	18		H	HUNTER F STALEY
BRIGHTON DAM	11250	06	MONTGOMERY	39 12	77 1W	331		MID			WASH SUB SANY COMM
CAMBRIDGE WATER TRMT P	13850	02	DORCHESTER	38 34	76 4W	10	16	16		H	WASTEWATER TRTMT PLANT
CATOCTIN MOUNTAIN PARK	15300	06	FREDERICK	39 39	77 29W	1610	17	17		C H	CATOCTIN MOUNTAIN PARK
CHESTERTOWN	17500	05	KENT	39 13	76 4W	39	23	23		H	THOMAS W ELIASON JR
CLARKSVILLE 3 NNE	18620	06	HOWARD	39 15	76 56W	365	17	17		H	UNIVERSITY OF MARYLAND
COLLEGE PARK	19950	04	PRINCE GEORG	38 59	76 57W	90	09	09		C H	UNIVERSITY OF MARYLAND
CONOWINGO DAM	20600	06	HARFORD	39 39	76 10W	39	MID	MID			SUSQUEHANNA ELECTRIC CO
CRISFIELD SOMERS COVE	22150	01	SOMERSET	37 59	75 52W	8	17	17			SOMERS COVE MARINA
CUMBERLAND 2	22820	07	ALLEGANY	39 38	78 45W	730	18	07		H	TIMOTHY B THOMAS
DALECARLIA RESVR DC	23250	04	DIS COLUMBIA	38 56	77 7W	151	17	17			U S CORPS OF ENGINEERS
DAMASCUS 2 SW	23350	06	MONTGOMERY	39 16	77 14W	722	19	19		H	RICHARD W SCHWEROT
DENTON 2 E	25230	02	CAROLINE	38 53	75 48W	49	17	17		H	ARTHUR REINHOLD
EDGEMONT	27700	07	WASHINGTON	39 40	77 33W	905		07			JOHN W HARNE
EMMITSBURG 2 SE	29060	06	FREDERICK	39 41	77 18W	420	17	17		H	MRS LUCILLE K BEALE
FREDERICK POLICE BRKS	33480	06	FREDERICK	39 25	77 26W	381	17	17		H	MARYLAND STATE POLICE
FREDERICK 3 E	33550	06	FREDERICK	39 24	77 22W	385		07			MISS I MARY STALEY
FROSTBURG 2	34150	07	ALLEGANY	39 40	78 56W	2172	07	07		H	LEE K CLOSE
GLENN DALE BELL STN	36750	04	PRINCE GEORG	38 58	76 48W	151	16	16		H	USDA PLT INTRODUCT STN
HAGERSTOWN	39750	07	WASHINGTON	39 39	77 44W	659	08	18		H	HAGERSTOWN RESERVOIR
HANCOCK	40300	07	WASHINGTON	39 42	78 11W	428	08	08		C H	TOWN OF HANCOCK
LA PLATA 1 W	50800	03	CHARLES	38 32	77 0W	140	18	18		H	C RUSSELL LEVERING
LAUREL 3 W	51110	04	PRINCE GEORG	39 6	76 54W	400	MID	MID			WASH SUB SANY COMM
MC HENRY 2 NW	58320	08	GARRETT	39 35	79 22W	2680	08	08		C H	JOSEPH F JOHENNING
MECHANICSVILLE 5 NE	58650	03	ST MARYS	38 27	76 41W	100	19	19		H	SANDRA J HASTINGS
MERRILL	58940	08	GARRETT	39 36	79 5W	1791		09		H	DELWOOD E MERRILL
MILLERS 4 NE	59340	06	CARROLL	39 43	76 48W	860	18	18		C H	ROBERT P MILLER
MILLINGTON 1 SE	59850	05	KENT	39 16	75 52W	30	18	18			HOWARD L HARVEY
NATIONAL ARBORETUM DC	63500	04	DIS COLUMBIA	38 54	76 59W	49	08	08		H	U S NATL ARBORETUM
OAKLAND 1 SE	66200	08	GARRETT	39 24	79 24W	2421	17	17		H	BEA J CROSCO
OWINGS FERRY LANDING	67700	03	CALVERT	38 41	76 40W	160	17	17		H	JAMES C RASMUSSEN
PATUXENT RIVER	69150	03	ST MARYS	38 20	76 25W	38	MID	MID		C H	NAVAL WEATHER SERVICE
POTOMAC FILTER PLANT	72720	06	MONTGOMERY	39 2	77 15W	269		08			POTOMAC WATER FILT PLT
PRINCESS ANNE	73300	01	SOMERSET	38 13	75 41W	20	17	17			UNIV OF MD EASTERN SHORE
ROCKVILLE 1 NE	77050	06	MONTGOMERY	39 6	77 6W	440	MID	17		H	WASHINGTON GAS AND LIGHT
ROYAL OAK 2 SSW	78060	02	TALBOT	38 43	76 11W	10	18	18		H	JOHN L SWAINE JR
SALISBURY	80000	01	WICOMICO	38 22	75 35W	10	17	17			CITY OF SALISBURY
SALISBURY FAA ARPT #	80050	01	WICOMICO	38 20	75 31W	48	MID	MID		H	FAA
SAVAGE RIVER DAM	80650	08	GARRETT	39 31	79 8W	1495	08	08	08	C H	US CORPS OF ENGINEERS
SNOW HILL 4 N	83800	01	WORCESTER	38 14	75 23W	30	18	18		H	CURTIS E SHOCKLEY
TALL TIMBERS	87570	03	ST MARYS	38 10	76 33W	12	17	17		H	RICHARD A EVERETT
TOWSON	88770	06	BALTIMORE	39 23	76 34W	390	18	18			BENDIX FRIEZ
UNIONVILLE	90300	06	FREDERICK	39 27	77 11W	430	18	18		C	RICHARD GETZANDANNER
UPPER MARLBORO 3 NNW	90700	04	PRINCE GEORG	38 52	76 47W	98	08	08	08	H	UNIVERSITY OF MARYLAND
VIENNA	91400	02	DORCHESTER	38 29	75 50W	10	18	18			DELMARVA POWER & LIGHT
WESTMINSTER POLICE BRK	94400	06	CARROLL	39 33	76 58W	765	17	17		H	MARYLAND STATE POLICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES LOCAL STD TIME TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	OBSERVER
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52W	459	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 H	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			BOARD OF PUBLIC WORKS
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 H	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

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.*

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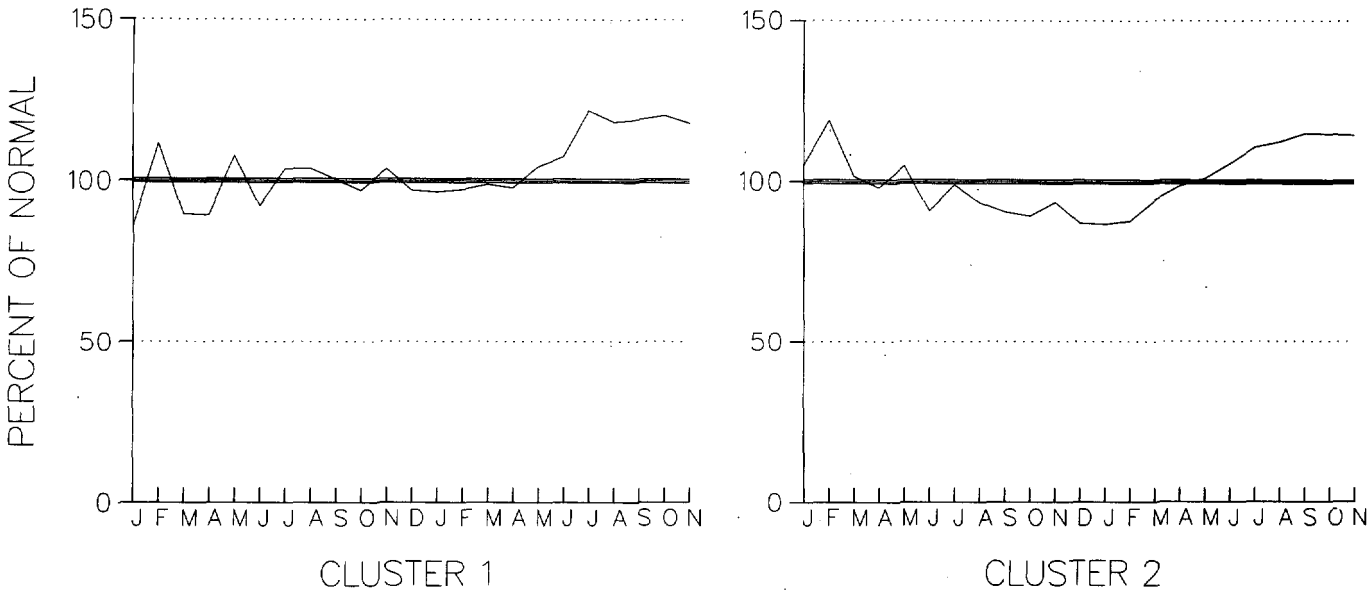
FEDERAL BUILDING
ASHEVILLE, NC 28801-2696

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

CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951–1980)
FOR THE LAST 23 MONTHS
ENDING NOVEMBER 1989
DELAWARE

CLUSTER 1 –DIVISION(S):
NORTHERN 01

CLUSTER 2 –DIVISION(S):
SOUTHERN 02



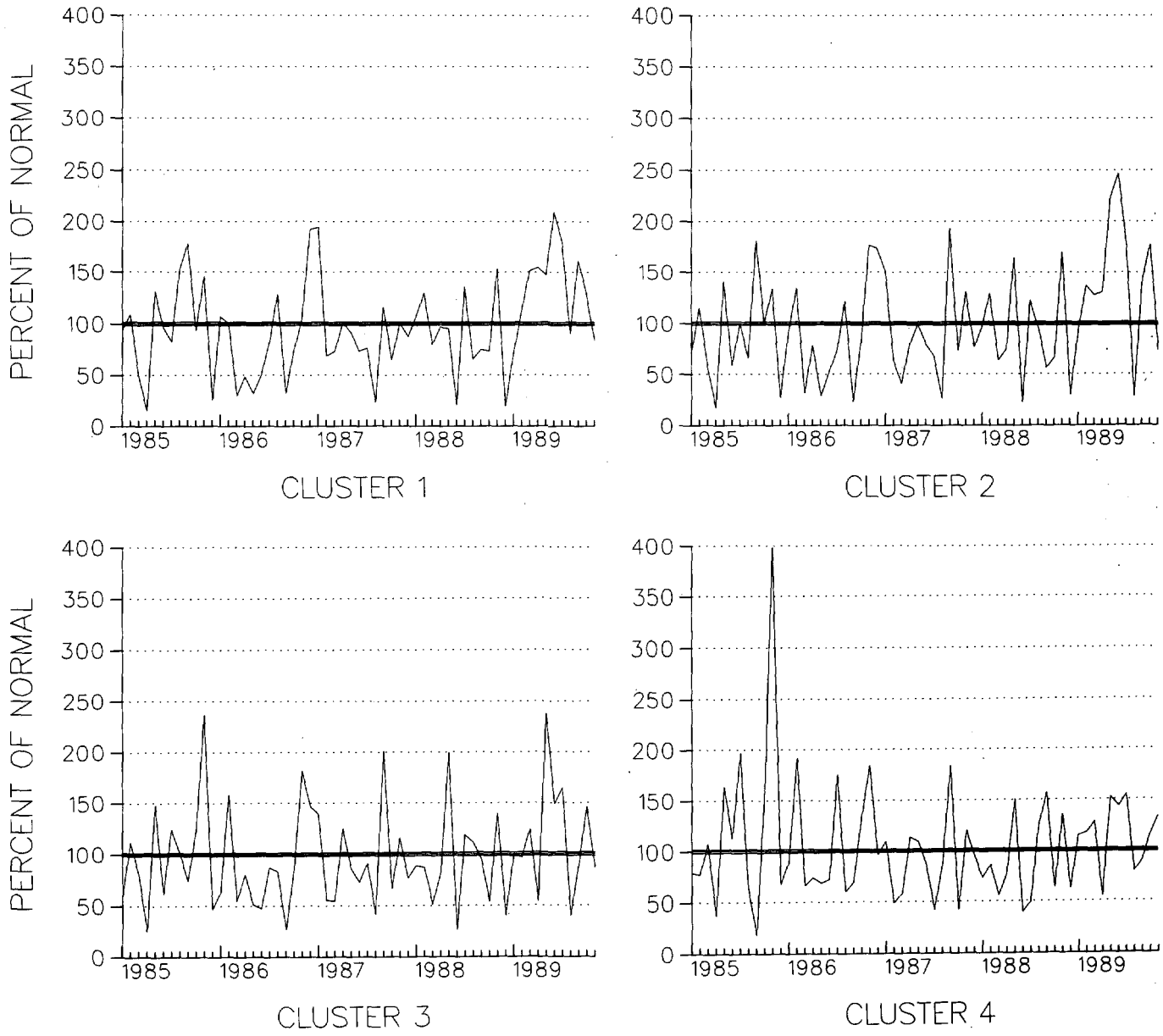
PRECIPITATION DEPARTURES FROM NORMAL (1951–1980)
FOR THE 59 MONTHS
ENDING NOVEMBER 1989
MARYLAND

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



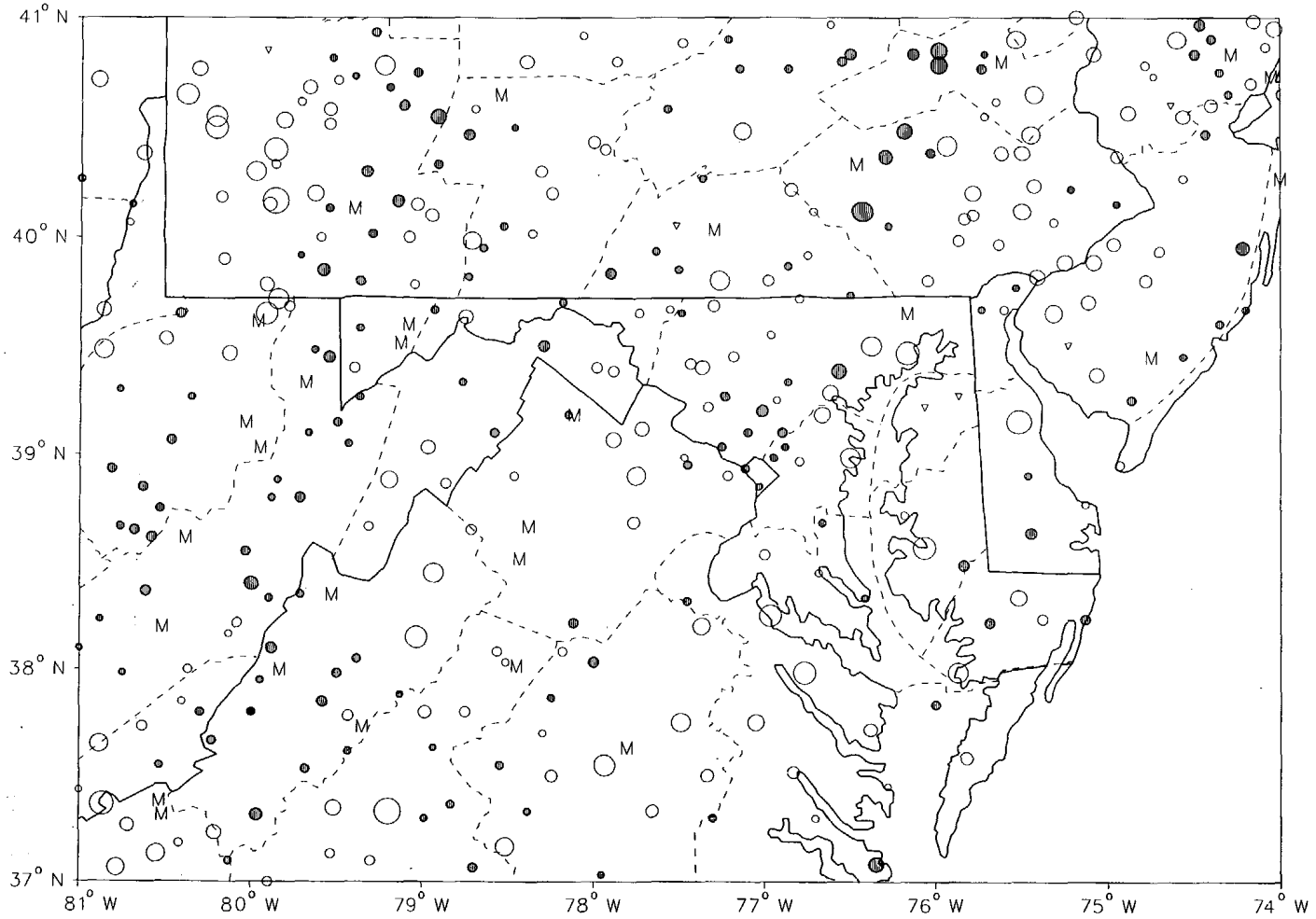
MONTHLY PRECIPITATION DEPARTURE FROM
THE DIVISIONAL AVERAGE FOR
NOVEMBER 1989
MARYLAND & DELAWARE

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

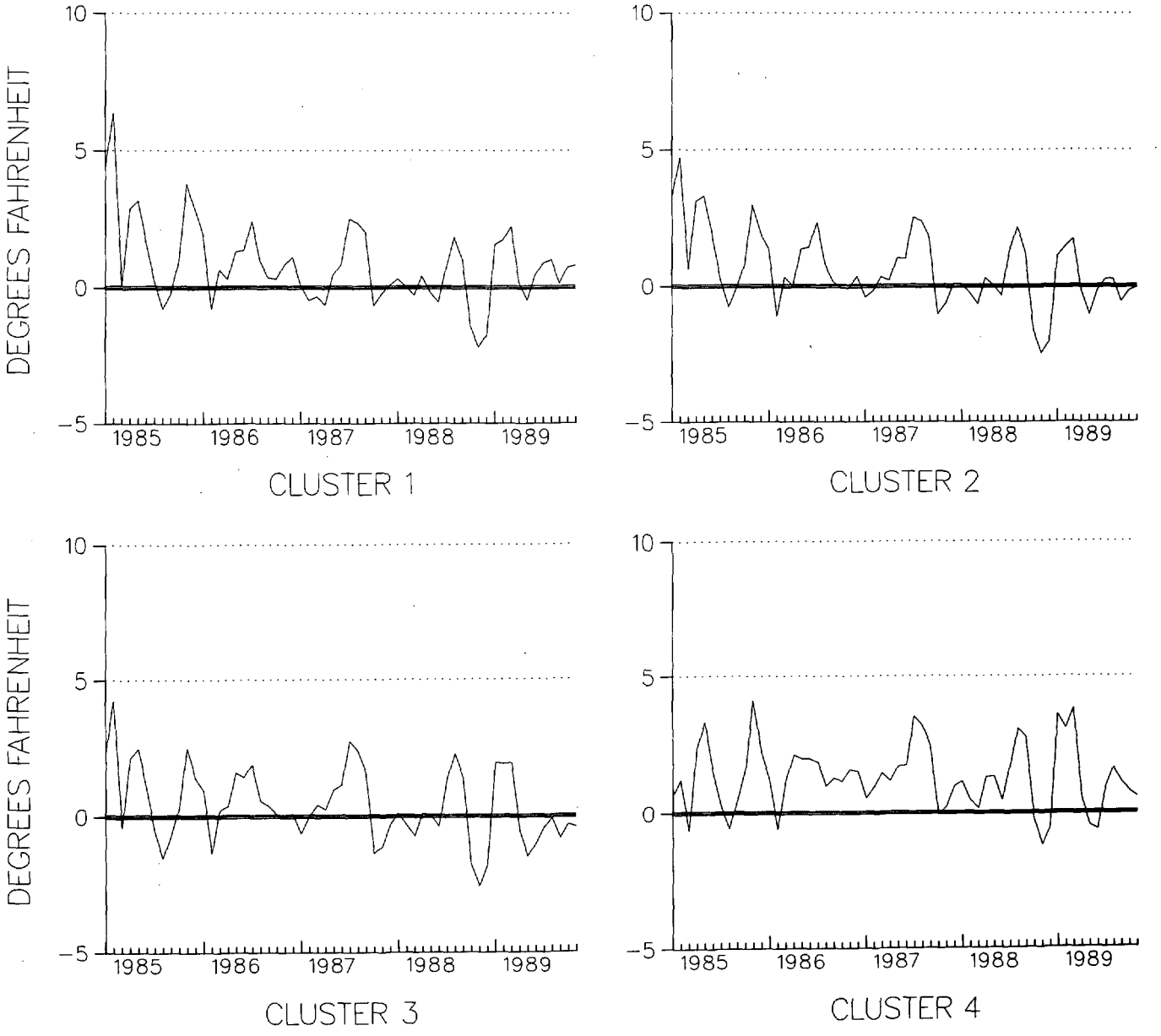
TEMPERATURE DEPARTURES FROM NORMAL (1951–1980)
THREE MONTH RUNNING MEAN
FOR THE 59 MONTHS ENDING WITH NOVEMBER 1989 DATA
MARYLAND

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

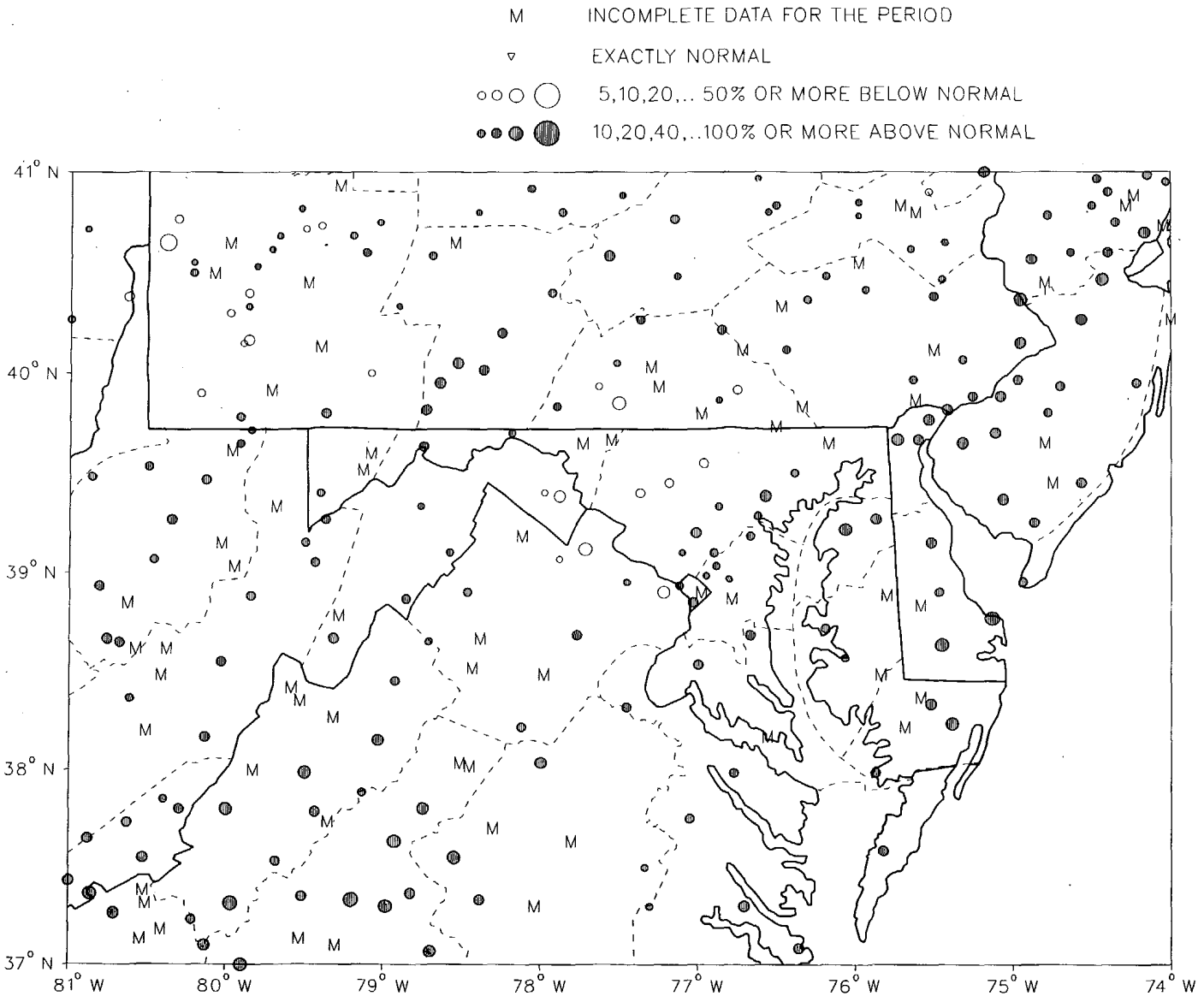
CLUSTER 2 –DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

CLUSTER 4 –DIVISION(S):
ALLEGHENY PLATEAU 08



CUMULATIVE 6 MONTHS PRECIPITATION DEPARTURE FROM
INDIVIDUAL STATION NORMALS (1951–1980)
FOR PERIOD ENDING NOVEMBER 1989
MARYLAND



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

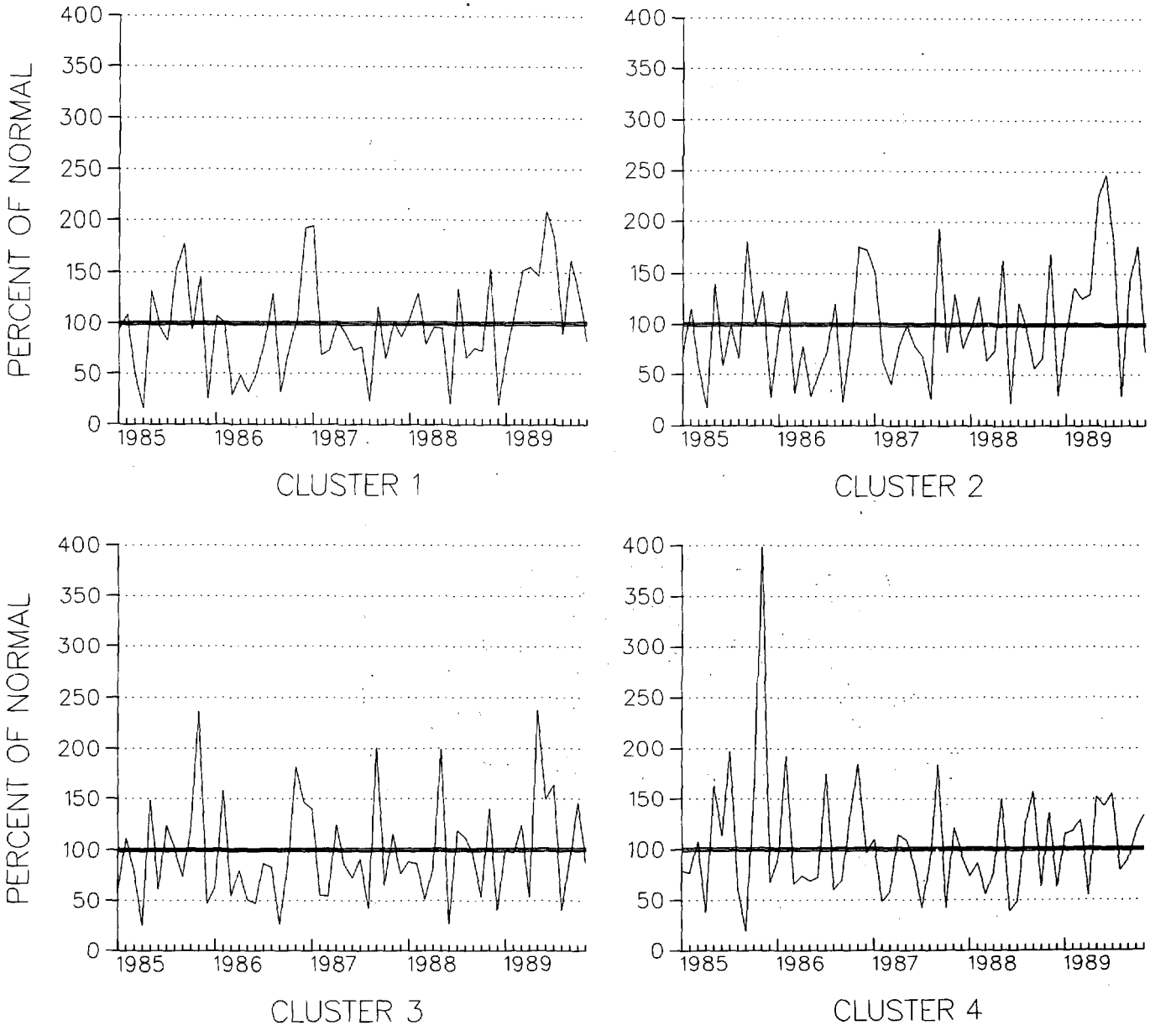
PRECIPITATION DEPARTURES FROM NORMAL (1951–1980)
FOR THE 59 MONTHS
ENDING NOVEMBER 1989
MARYLAND

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

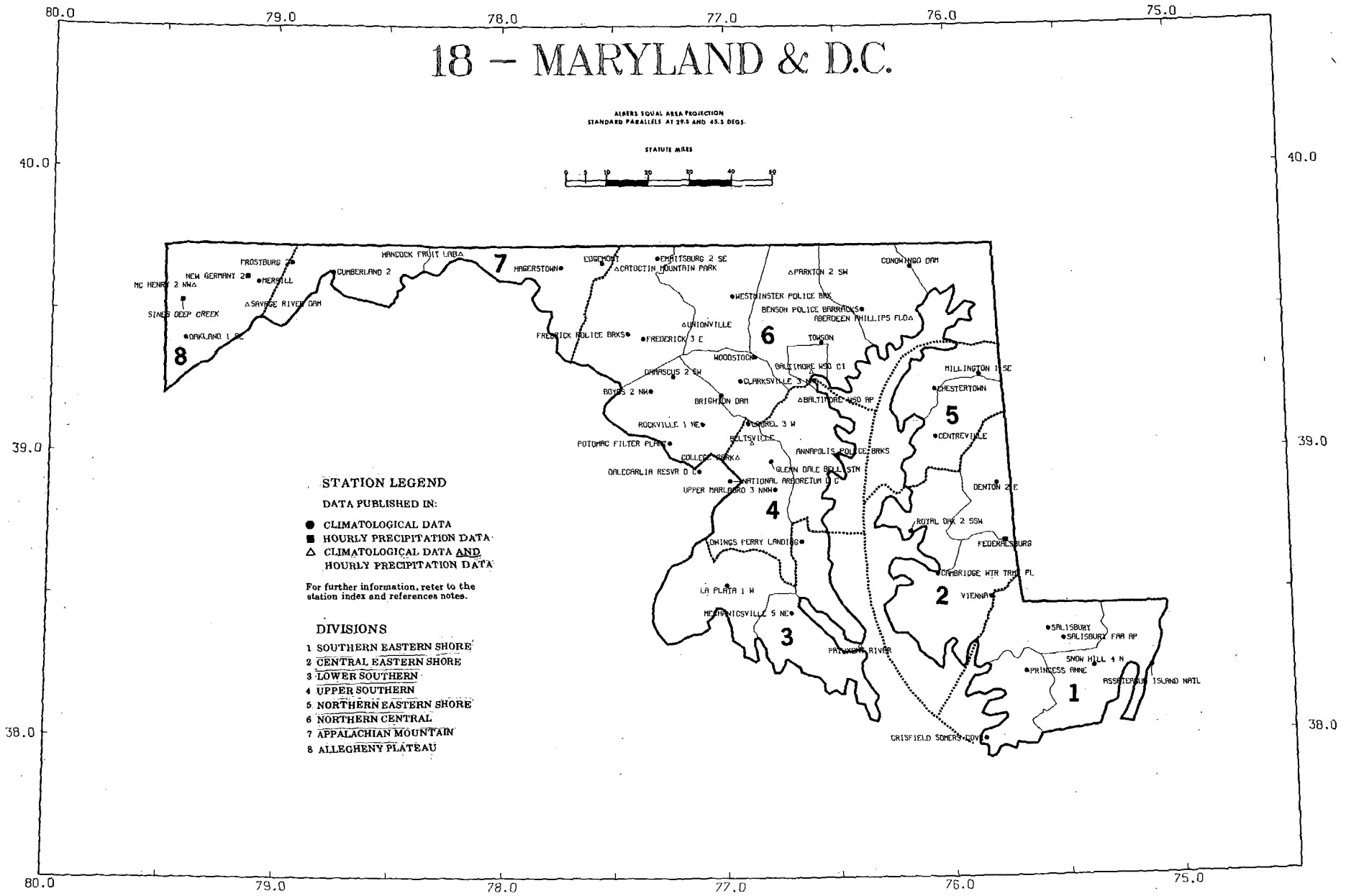
CLUSTER 2 –DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

CLUSTER 4 –DIVISION(S):
ALLEGHENY PLATEAU 08



18 – MARYLAND & D.C.



STATION LEGEND

DATA PUBLISHED IN:

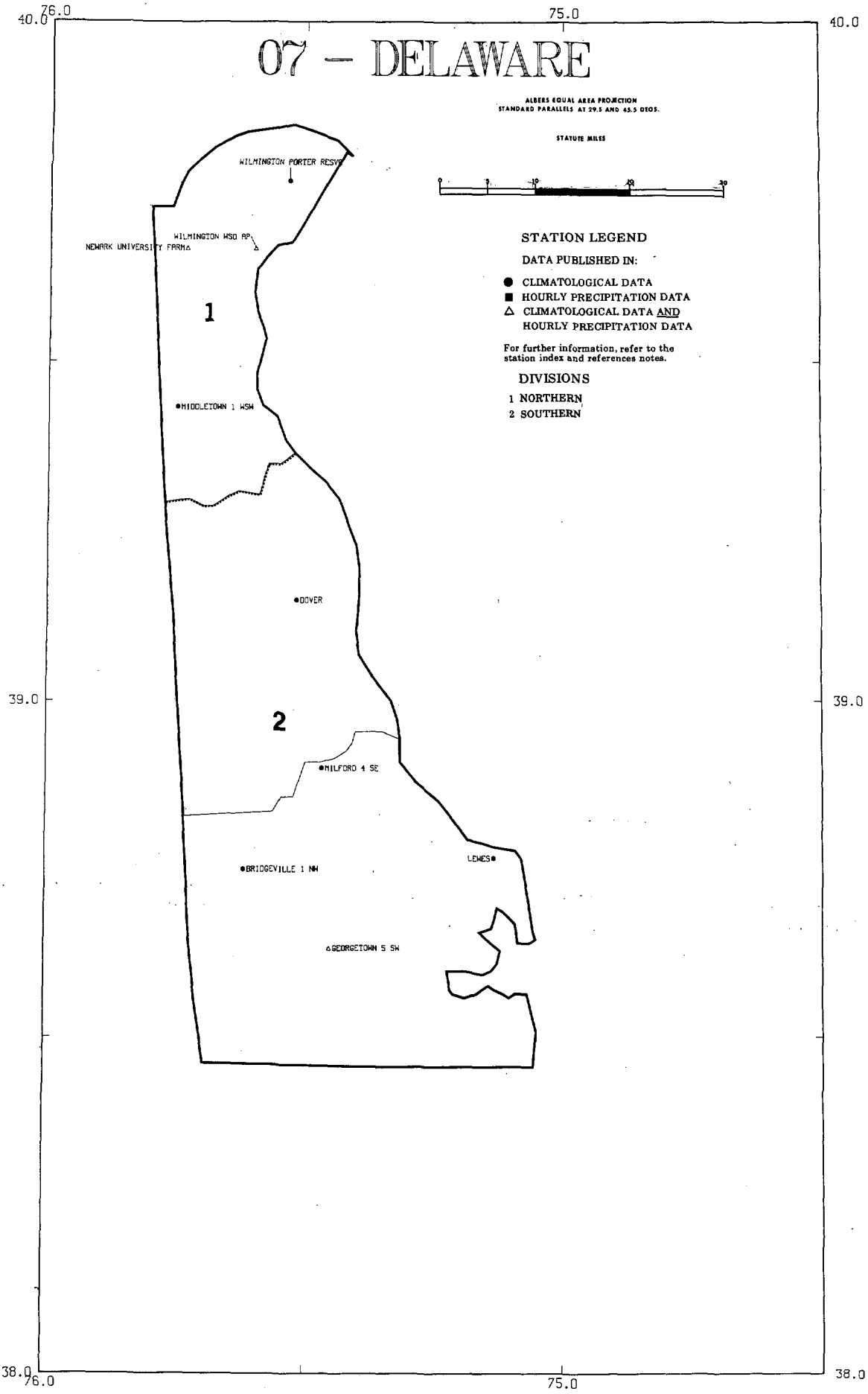
- ● CLIMATOLOGICAL DATA
- ■ HOURLY PRECIPITATION DATA
- △ CLIMATOLOGICAL DATA AND HOURLY PRECIPITATION DATA

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

07 – DELAWARE


76.0
75.0
40.0
39.0
38.0
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29.5 AND 45.5 DEGS.
STATUTE MILES
0
5
10
20
30
WILMINGTON PORTER RESVR
WILMINGTON WSO AP
NEWARK UNIVERSITY FARM
1
MIDDLETOWN 1 WSW
DOVER
2
MILFORD 4 SE
LEWES
BRIDGEVILLE 1 NW
GEORGETOWN 5 SW
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

CD
VALIDATED BY:

Charles Aiken
Ted Burlew
Charles Chillag
Betty Edstrom
Bruce Emory
Joyce Morgan

DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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