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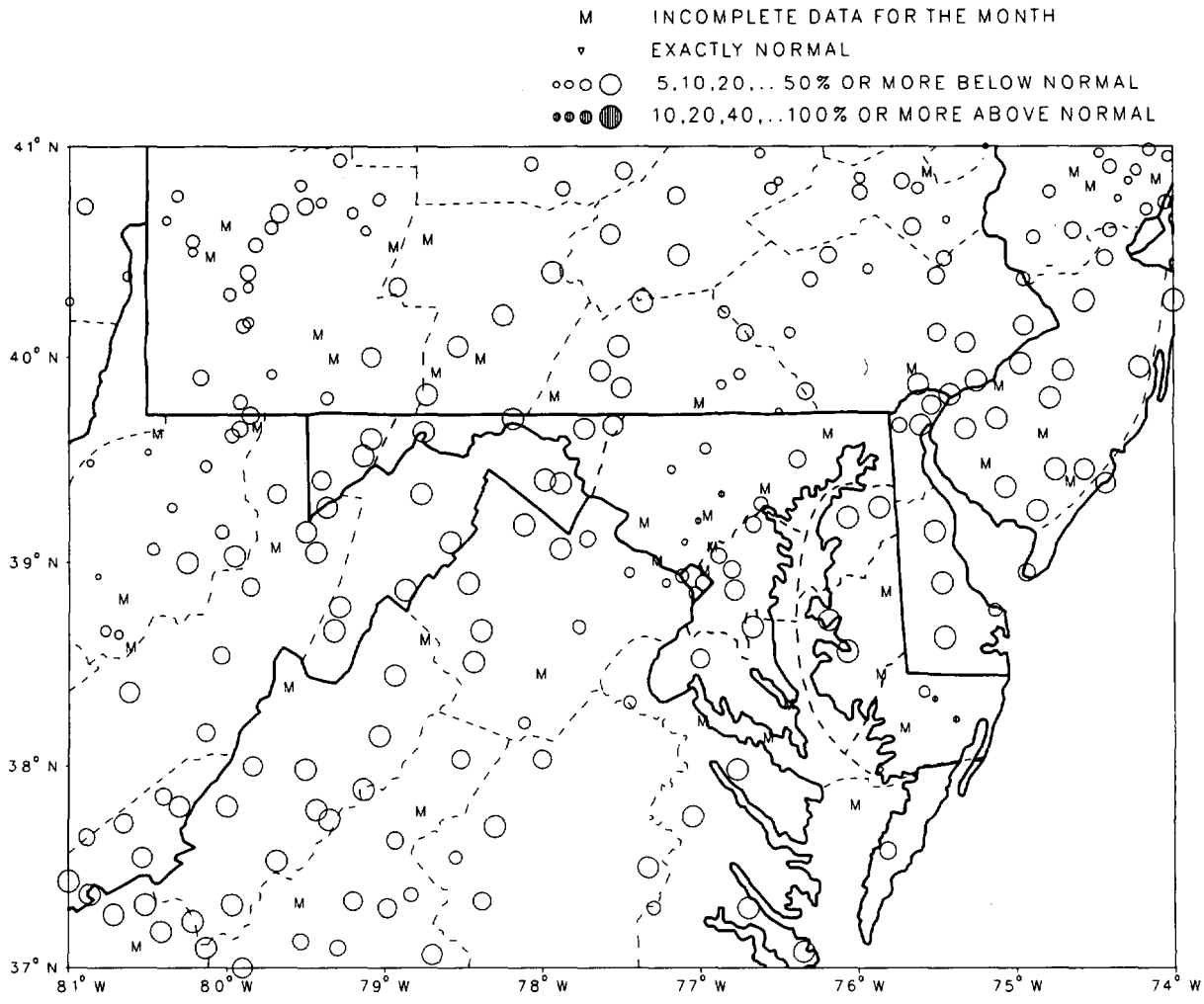
CLIMATOLOGICAL DATA
MARYLAND AND DELAWARE
NOVEMBER 1990
VOLUME 94 NUMBER 11

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



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

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Kenneth D Hadeen

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND			
HIGHEST TEMPERATURE	82	NOVEMBER 3	BALTIMORE WSO CITY R
LOWEST TEMPERATURE	15	NOVEMBER 19	OAKLAND 1 SE
			SNOW HILL 4 N
GREATEST TOTAL PRECIPITATION	3.72		CUMBERLAND 2
LEAST TOTAL PRECIPITATION	.87		SNOW HILL 4 N
GREATEST 1 DAY PRECIPITATION	3.24	NOVEMBER 10	MC HENRY 2 NW
GREATEST TOTAL SNOWFALL	.5		
DELAWARE			
HIGHEST TEMPERATURE	81	NOVEMBER 3	DOVER
LOWEST TEMPERATURE	25	NOVEMBER 21+	2 STATIONS
GREATEST TOTAL PRECIPITATION	2.63		LEWES
LEAST TOTAL PRECIPITATION	1.11		GREENWOOD 2 NE
GREATEST 1 DAY PRECIPITATION	2.05	NOVEMBER 10	LEWES

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND DELAWARE
NOVEMBER 1990

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	59.2	40.9	50.1		75	3	26	18	439	0	0	0	6	0	2.27		1.55	9	.0	0		4	1	1
CRISFIELD SOMERS COVE	58.5	45.3	51.9	1.4	71	28	33	30	383	0	0	0	0	0	3.00	-.09	2.50	10	.0	0		2	2	1
PRINCESS ANNE	M	M	M																M	M				
SALISBURY	63.5	39.3	51.4	1.9	79	3	27	19	401	1	0	0	9	0	2.54	-.57	1.47	10	.0	0		2	2	2
SALISBURY FAA ARPT	62.1	37.4	49.8	2.1	78	3+	25	30	451	0	0	0	10	0	3.07	.01	2.44	10	.0	0		2	2	1
SNOW HILL 4 N	63.2	38.3	50.8	2.3	80	3	25	19	419	0	0	0	10	0	3.72	.34	3.24	10	.0	0		2	1	1
--DIVISIONAL DATA------->			50.8	1.9											2.92	-.27			.0					
CENTRAL EASTERN SHORE 02																								
CAMBRIDGE WATER TRMT P	62.9	41.1	52.0	3.6	78	2	29	21	382	0	0	0	5	0	1.07	-2.65	.77	10	.0	0		3	1	0
ROYAL OAK 2 SSW	61.7	41.3	51.5	2.6	79	3	29	21	398	0	0	0	3	0	1.11	-2.62	.79	10	.0	0		3	1	0
VIENNA	62.7	36.1	49.4	.4	80	3	23	21	461	0	0	0	10	0M	1.16		.74	10	.0	0		1	1	0
--DIVISIONAL DATA------->			51.0	2.5											1.09	-2.44			.0					
LOWER SOUTHERN 03																								
LA PLATA 1 W	63.0	38.9	51.0	3.7	77	3+	26	19	412	0	0	0	8	0	1.88	-1.32	1.40	10	.0	0		2	1	1
MECHANICSVILLE 5 NE	62.1	38.2	50.2		77	3	24	19	438	0	0	0	10	0	1.17		.84	10	.0	0		2	1	0
OWINGS FERRY LANDING	62.5	37.6	50.1	2.2	79	3	26	21+	442	0	0	0	10	0	1.46	-1.87	1.07	10	.0	0		3	1	1
PATUXENT RIVER	M	M	M																M	M				
TALL TIMBERS	M	M	M																M	M				
--DIVISIONAL DATA------->			50.4	2.4											1.50	-1.84			.0					
UPPER SOUTHERN 04																								
ANNAPOLIS POLICE BRKS	60.8	34.1	47.5		79	3	22	22	517	0	0	0	12	0	1.72		1.43	10	.0	0		2	1	1
BALTIMORE WSO ARPT R	61.5	37.7	49.6	3.3	79	2	27	19	454	0	0	0	10	0	2.10	-1.01	1.71	10	.0	0		3	1	1
BELTSVILLE	62.1	35.5	48.8	3.8	78	3	25	19	477	0	0	0	11	0	2.01	-.96	1.24	10	.0	0		4	1	1
COLLEGE PARK	M	M	M																M	M				
DALECARLIA RESVR DC	63.2	32.0	47.6	.6	81	3	21	21+	516	0	0	0	15	0	2.38	-.77	2.00	10	.0	0		3	1	1
GLENN DALE BELL STN	64.6	33.9	49.3	3.0	81	3	22	19	465	0	0	0	12	0	2.09	-1.25	1.60	10	.0	0		4	1	1
LAUREL 3 W	M	M	M																M	M				
NATIONAL ARBORETUM DC	63.3	37.5	50.4	2.3	81	4	27	20+	431	0	0	0	11	0	2.14	-.94	1.33	10	.0	0		4	1	1
UPPER MARLBORO 3 NNW	63.5	30.9	47.2		81	4	20	21	525	0	0	0	18	0	1.74	-1.42	.98	10	.0	0		4	1	0
--DIVISIONAL DATA------->			48.6	2.0											2.03	-1.10			.0					
NORTHERN EASTERN SHORE 05																								
CHESTERTOWN	60.5	37.5	49.0	2.0	77	3	26	19	472	0	0	0	11	0	1.59	-1.87	1.31	10	.0	0		2	1	1
MILLINGTON 1 SE	62.4	36.7	49.6	3.5	79	3	24	21	456	0	0	0	12	0	1.12	-2.35	.83	10	.0	0		2	1	0
--DIVISIONAL DATA------->			49.3	2.3											1.36	-2.04			.0					
NORTHERN CENTRAL 06																								
ABERDEEN PHILLIPS FLD	M	M	M		74	2	27	21+			0	0	8	0	1.80				M	0		1	0	0
BALTIMORE WSO CITY R	60.5	41.6	51.1	1.9	82	3	29	19	417	5	0	0	2	0	2.44	-.90	1.99	10	M	M		3	1	1
BENSON POLICE BARRACKS	62.6	M	M		80	3	28	9			0	0	1	0	2.46	-1.43	2.01	10	.0	0		4	1	1
BOYDS 2 NW	M	M	M																M	M				
CATOCTIN MOUNTAIN PARK	55.8	38.0	46.9		73	2	26	18	538	0	0	0	9	0	1.77		.94	10	M	0		4	1	0
CLARKSVILLE 3 NNE	M	M	M																M	M				
CONOWINGO DAM	M	M	M																M	M				
DAMASCUS 2 SW	59.4	40.0	49.7		76	2	24	19	451	0	0	0	8	0	2.72		2.19	10	.0	0		4	1	1
EMMITSBURG 2 SE	59.7	34.0	46.9		77	2	19	19	536	0	0	0	12	0	2.05		1.69	10	.0	0		3	1	1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND DELAWARE
NOVEMBER 1990

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
FREDERICK POLICE BRKS	62.6	39.1	50.9		78	4+	25	19	417	0	0	0	4	0	2.08		1.33	10	.0	0		4	1	1
MILLERS 4 NE	58.4	37.9	48.2		75	2	25	9	500	0	0	0	7	0	2.71		2.15	10	.0	0		3	1	1
ROCKVILLE 1 NE	60.3	38.5	49.4	3.1	77	2	26	19	462	0	0	0	9	0	3.00	-.06	2.35	10	.0	0		5	1	1
TOWSON M		M	M		78	3+	25	9			0	0	4	0			2.05	10	M	0		2	1	1
UNIONVILLE	60.2	32.2	46.2	3.0	76	3+	18	19	554	0	0	0	15	0	2.83	-.26	2.12	10	.0	0		4	1	1
WESTMINSTER POLICE BRK	60.7	37.6	49.2	4.9	76	2	23	19	468	0	0	0	8	0	2.63	-.58	1.85	10	.0	0		3	2	1
WOODSTOCK	61.8	36.6	49.2	4.5	80	2	25	19+	469	0	0	0	10	0	3.57	.29	2.91	10	.0	0		4	1	1
--DIVISIONAL DATA-------->			48.8	3.6											2.51	-.84			.0					
APPALACHIAN MOUNTAIN 07																								
CUMBERLAND 2	61.8	34.1	48.0	3.9	78	3+	20	30	506	0	0	0	12	0	.87	-1.54	.68	10	.0	0		2	1	0
FROSTBURG 2	53.8	34.6	44.2		75	29	24	30	620	0	0	0	17	0	1.17		.55	10	T	T		3	1	0
HAGERSTOWN	59.5	36.2	47.9	3.6	78	4	26	20+	508	0	0	0	9	0	1.19	-1.83	.66	10	.0	0		4	1	0
HANCOCK	61.4	30.9	46.2	3.4	80	4	18	19	559	0	0	0	17	0	1.07	-1.60	.67	10	.0	0		3	1	0
--DIVISIONAL DATA-------->			46.6	3.0											1.08	-1.66			.0					
ALLEGHENY PLATEAU 08																								
MC HENRY 2 NW	52.7	34.0	43.4		72	29+	20	30	644	0	0	0	17	0	2.01		.64	10	.5	T		5	2	0
OAKLAND 1 SE	57.0	29.1	43.1	3.9	74	27	15	19	649	0	0	0	23	0	1.83	-1.31	.79	10	T	T		4	1	0
SAVAGE RIVER DAM	56.7	32.1	44.4	4.1	76	29	24	20+	611	0	0	0	13	0	1.10	-1.25	.61	10	.0	0		2	1	0
--DIVISIONAL DATA-------->			43.6	4.5											1.65	-1.35			.2					
DELAWARE																								
NORTHERN 01																								
NEWARK UNIVERSITY FARM	60.1	37.0	48.6	2.8	78	3	26	9	487	0	0	0	10	0	2.22	-.97	1.74	10	.0	0		2	1	1
WILMINGTON WSO ARPT R	59.2	37.5	48.4	2.8	77	3	26	19	494	0	0	0	10	0	1.61	-1.72	1.25	10	.0	0		2	1	1
WILMINGTON PORTER RSVR	58.3	39.4	48.9	3.7	77	3	28	19	478	0	0	0	6	0	2.19	-1.57	1.60	10	.0	0		3	1	1
--DIVISIONAL DATA-------->			48.6	2.8											2.01	-1.37			.0					
SOUTHERN 02																								
DOVER	62.7	39.3	51.0	2.8	81	3+	27	20+	411	0	0	0	6	0	1.20	-2.33	.70	10	.0	0		3	1	0
GEORGETOWN 5 SW	61.7	36.1	48.9	1.7	79	4	25	21+	475	0	0	0	12	0	1.36	-1.93	.92	11	.0	0		2	1	0
GREENWOOD 2 NE	60.8	37.9	49.4		78	3+	25	19	462	0	0	0	11	0	1.11		.65	10	.0	0		3	1	0
LEWES	62.0	43.5	52.8	4.8	80	3	30	19	364	5	0	0	1	0	2.63	-.86	2.05	10	.0	0		3	1	1
MILFORD 4 SE	62.3	40.1	51.2	3.6	80	3+	28	19+	409	1	0	0	6	0	1.12	-2.31	.58	10	.0	0		3	1	0
--DIVISIONAL DATA-------->			50.7	2.9											1.48	-1.89			.0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND DELAWARE
NOVEMBER 1990

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	2.27	.08						T		1.55	.14							T					T	.03			.01	.22		.24		
CRISFIELD SOMERS COVE	3.00										2.50																			.50		
PRINCESS ANNE	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SALISBURY	2.54										1.47	T												.05					1.02		
SALISBURY FAA ARPT	3.07										2.44													T					.63		
SNOW HILL 4 N	3.72										3.24							T						.05					.43		
CENTRAL EASTERN SHORE 02																															
CAMBRIDGE WATER TRMT P	1.07										.77	.05						T						.10					.15		
ROYAL OAK 2 SSW	1.11										.79							.03						.11				.05	.13		
VIENNA	M 1.16	-									.74													.06		*	*	*	*	.36		
LOWER SOUTHERN 03																															
LA PLATA 1 W	1.88						.07				1.40							.30						.07				.02	.02		
MECHANICSVILLE 5 NE	1.17										.84							.18						.09				T	.06		
OWINGS FERRY LANDING	1.46										1.07							.19						.08				.01	.11		
PATUXENT RIVER	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TALL TIMBERS	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UPPER SOUTHERN 04																															
ANNAPOLIS POLICE BRKS	1.72						.03				1.43													.18				.04	.04		
BALTIMORE WSO ARPT R	2.10					T	.08			.01	1.71							.15					T	.14				.01	T		
BELTSVILLE	2.01						.04				1.24	.39						.16						.15					.03		
COLLEGE PARK	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DALECARLIA RESVR DC	2.38						.03				2.00							.17						.16				.02			
GLENN DALE BELL STN	2.09						.11				1.60							.17						.15				.04	.02		
LAUREL 3 W	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NATIONAL ARBORETUM DC	2.14						.08				1.33	.39						.17						.13					.03	.01	
UPPER MARLBORO 3 NNW	1.74						.05				.98	.36						.21	.01					.11					.02		
NORTHERN EASTERN SHORE 05																															
CHESTERTOWN	1.59					T	.01				1.31							.07						.15				.03	.02		
MILLINGTON 1 SE	1.12										.83							.07						.16				.03	.03		
NORTHERN CENTRAL 06																															
ABERDEEN PHILLIPS FLD	1.80						.13				*	*	*	1.46				*	*	.11			*	.09				.01	T		
BALTIMORE WSO CITY R	2.44						.09			.02	1.99							.17					.01	.15				.01			
BENSON POLICE BARRACKS	2.46						.14				2.01							.10						.21				T			
BOYDS 2 NW	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BRIGHTON DAM	3.36						.30			.06	2.70							.20					T	.10								
CATOCTIN MOUNTAIN PARK	1.77						.37	.01	T	.01	.94							.20						.24								
CLARKSVILLE 3 NNE	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CONOWINGO DAM	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAMASCUS 2 SW	2.72						.21				2.19							.14						.18				T			
EMMITSBURG 2 SE	2.05						.21			T	1.69													.10				.05			
FREDERICK POLICE BRKS	2.08						.34				1.33							.15						.26								
MILLERS 4 NE	2.71						.19			T	2.15							.08						.29				T	T		
POTOMAC FILTER PLANT	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ROCKVILLE 1 NE	3.00					T	.23			.10	2.35							.15					T	.15				.02	T		
TOWSON	M						.20				2.05																					
UNIONVILLE	2.83						.33				2.12							.16						.22								
WESTMINSTER POLICE BRK	2.63						.26				1.85	.02												.50				T				
WOODSTOCK	3.57						.27				2.91							.22						.17				T				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND DELAWARE
NOVEMBER 1990

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	.87						.15				.68	.02	T					.12						.02								
EDGEMONT	1.82						.44				.68	.31						.12						.27								
FROSTBURG 2	1.17						.24		.04		.55	.09	.02	T				.08	.03					.10	.02	T			T	T	
HAGERSTOWN	1.19						.29				.66	.12						.11											.01			
HANCOCK	1.07						.22				.67													.18								
ALLEGHENY PLATEAU 08																																
MC HENRY 2 NW	2.01					.20	.30		.03		.64	.11						.30						.52	.05					.06		
MERRILL	1.17						.60				.60							.15						.16	.06							
OAKLAND 1 SE	1.83						.28	T			.79		T					.27					T	.43	.06				T	T	
SAVAGE RIVER DAM	1.10						.08		.02		.61	.02	.01					.06	T					.24	.05	.01						
DELAWARE																																
NORTHERN 01																																
NEWARK UNIVERSITY FARM	2.22						.08				1.74							.07						.29	T				.04			
WILMINGTON WSO ARPT R	1.61					T	.06				1.25							.07					T	.20					.03	T		
WILMINGTON PORTER RSVR	2.19						.07				1.60							.23						.25					.04			
SOUTHERN 02																																
DOVER	1.20										.70							.26						.06						.18		
GEORGETOWN 5 SW	1.36											.92																		.44		
GREENWOOD 2 NE	1.11										.65							T											.25	.21		
LEWES	2.63										2.05														.12						.46	
MILFORD 4 SE	1.12										.58							T						.15						.39		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND DELAWARE
NOVEMBER 1990

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	17	MAX	63	73	75	70	70	58	59	59	65	64	50	48	45	49	62	59	54	45	50	54	59	54	59	55	66	65	65	71	64	45		59.2
		OBS																													47			
		MIN	51	52	52	53	53	53	36	34	30	43	38	33	32	35	33	49	46	26	34	32	40	31	42	49	44	46	45	48	37	31		40.9
		OBS						38			42						44		34														
CRISFIELD SOMERS COVE	17	MAX	66	70	68	66	63	63	62	53	56	55	53	55	55	48	58	60	57	50	50	53	51	50	60	59	57	66	66	71	68	47		58.5
		MIN	53	54	55	54	53	52	42	44	37	47	48	46	42	40	39	45	50	37	35	44	36	34	37	47	54	50	49	55	47	33		45.3
		OBS										34														37	39							
PRINCESS ANNE	17	MAX																																M
		MIN																																M
SALISBURY	17	MAX	74	78	79	77	76	70	62	53	58	69	53	54	49	51	65	73	63	50	52	56	57	60	62	60	68	70	70	77	73	46		63.5
		MIN	46	47	47	45	45	52	34	38	28	46	42	38	33	32	32	38	46	31	27	30	28	30	42	40	51	40	43	55	42	32		39.3
SALISBURY FAA ARPT	MID	MAX	74	78	78	75	75	66	57	49	56	69	53	51	47	51	64	72	55	47	50	55	56	61	64	59	67	69	72	76	70	46		62.1
		MIN	44	44	44	44	43	41	35	30	27	47	41	38	33	30	29	35	39	32	28	28	27	27	48	39	53	38	42	54	38	25		37.4
SNOW HILL 4 N	18	MAX	73	78	80	76	76	67	59	54	57	70	53	53	49	52	68	70	56	49	52	57	56	60	65	60	70	69	73	78	70	46		63.2
		MIN	42	44	49	45	44	48	32	36	27	50	44	37	30	30	27	38	46	34	25	29	28	27	42	40	51	40	41	51	44	29		38.3
CENTRAL EASTERN SHORE 02																																		
CAMBRIDGE WATER TRMT P	16	MAX	68	78	76	75	75	71	61	54	57	66	54	55	51	50	67	72	64	52	52	54	54	59	61	63	69	68	67	75	72	47		62.9
		MIN	47	47	44	45	46	52	42	42	34	48	45	41	39	37	31	37	48	35	32	32	29	32	46	39	45	40	46	52	44	36		41.1
ROYAL OAK 2 SSW	18	MAX	69	76	79	70	72	67	58	50	54	65	55	54	48	52	65	69	60	50	52	54	54	58	64	59	67	68	66	73	69	55		61.7
		MIN	45	46	46	46	46	51	34	42	31	46	45	40	38	37	34	40	50	36	32	33	29	33	49	43	44	40	48	54	45	36		41.3
VIENNA	18	MAX	70	76	80	74	72	71	60	55	55	66	54	54	51	50	71	74	64	51	56	55	55	56	57	62	68	66	67	74	72	45		62.7
		OBS																									****	****	****	****				
		MIN	42	43	44	43	42	47	30	35	24	42	39	33	31	30	40	44	42	26	28	26	23	34	32	37	42	35	40	45	36	29		36.1
		OBS										25															****	****	****	****				
LOWER SOUTHERN 03																																		
LA PLATA 1 W	18	MAX	71	77	77	73	75	70	55	50	54	62	57	55	49	52	66	72	57	52	53	57	56	62	68	63	74	74	68	75	71	46		63.0
		MIN	44	44	45	43	45	47	32	36	30	46	40	37	28	29	31	38	47	34	26	34	29	33	48	38	48	41	47	55	44	29		38.9
MECHANICSVILLE 5 NE	19	MAX	71	75	77	74	73	66	55	50	52	63	55	54	49	52	67	70	57	48	53	57	56	60	68	63	71	69	68	75	69	46		62.1
		MIN	43	44	43	43	44	50	30	38	28	49	40	37	27	33	28	37	46	32	24	30	26	30	45	41	47	40	47	53	42	28		38.2
OWINGS FERRY LANDING	17	MAX	73	77	79	74	74	66	55	50	53	63	54	52	50	52	68	72	65	51	52	56	55	61	65	60	72	69	68	75	70	45		62.5
		MIN	41	43	43	41	42	50	31	37	28	47	40	36	26	34	29	36	48	32	26	32	26	30	45	36	41	41	45	51	43	28		37.6
PATUXENT RIVER	MID	MAX																																M
		MIN																																M
TALL TIMBERS	17	MAX																																M
		MIN																																M
UPPER SOUTHERN 04																																		
ANNAPOLIS POLICE BRKS	17	MAX	65	76	79	73	72	60	54	50	51	62	54	48	47	52	66	70	60	49	55	54	53	53	61	59	71	72	64	71	67	56		60.8
		OBS													****	****	****	****	****	****		33												
		MIN	40	40	39	38	35	44	29	28	35	40	30	31	30	29	26	33	43	30	23	25	32	22	43	34	39	37	39	39	38	33		34.1
		OBS													****	****	****	****	****	****														
BALTIMORE WSO ARPT	MID	MAX	73	79	78	74	73	66	55	49	53	58	53	50	48	53	69	74	59	49	54	56	56	59	65	57	68	65	64	73	69	46		61.5
		MIN	45	43	49	45	43	42	32	31	29	43	41	37	31	31	30	39	39	34	27	33	30	32	45	38	44	42	47	45	37	28		37.7
BELTSVILLE	08	MAX	74	73	78	77	73	75	60	55	49	56	56	54	50	48	53	68	73	53	48	53	56	67	62	67	58	70	67	68	73	49		62.1
		OBS							75																									
		MIN	42	39	41	41	40	48	29	33	26	33	41	35	29	31	27	35	47	31	25	29	26	29	33	40	33	37	45	47	47	27		35.5
COLLEGE PARK	09	MAX																																M
		MIN																																M

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DAILY TEMPERATURES (°F)

MARYLAND AND DELAWARE
NOVEMBER 1990

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	74	79	81	74	76	70	56	52	53	56	55	54	48	53	69	73	66	52	53	56	56	62	67	59	73	70	67	75	72	44		63.2
		MIN	35	35	36	42	36	37	25	27	22	39	32	32	21	25	25	34	42	24	29	33	21	26	41	27	33	32	45	42	36	25		32.0
		OBS															45	47						41										
GLENN DALE BELL STN	16	MAX	73	79	81	76	77	74	57	54	56	58	54	56	53	56	71	75	74	52	55	58	59	59	69	66	64	71	71	72	71	48		64.6
		OBS																		63														
		MIN	40	40	38	39	40	48	27	32	25	44	40	35	26	28	26	34	34	24	22	27	23	23	37	34	38	36	45	46	42	23		33.9
LAUREL 3 W	MID	MAX																																M
		MIN																																M
NATIONAL ARBORETUM DC	08	MAX	74	74	78	81	75	77	62	57	53	57	58	57	57	50	54	68	69	47	51	54	58	60	64	70	62	73	70	67	73	48		63.3
		OBS																			73													
		MIN	46	45	46	44	44	45	32	33	30	32	43	40	30	37	30	32	40	42	27	27	30	32	32	38	38	40	40	48	49	34		37.5
UPPER MARLBORO 3 NNW	08	MAX	74	75	79	81	75	76	62	57	51	52	59	56	53	50	54	72	75	53	49	56	54	58	63	68	69	71	68	71	75	50		63.5
		OBS																														64		
		MIN	37	35	38	36	35	42	25	30	22	36	37	32	21	28	23	30	34	28	22	25	20	24	28	32	32	32	36	44	42	22		30.9
NORTHERN EASTERN SHORE 05																																		
CHESTERTOWN	23	MAX	68	76	77	74	76	65	55	50	56	55	53	51	48	50	66	71	54	47	51	54	54	61	60	56	69	67	65	73	66	46		60.5
		MIN	42	41	46	43	43	44	32	31	27	44	42	36	36	32	32	37	36	31	26	31	30	30	46	44	46	38	41	52	36	29		37.5
MILLINGTON 1 SE	18	MAX	71	78	79	74	74	65	56	54	53	65	53	52	49	51	69	74	74	48	52	54	54	59	60	57	69	69	66	74	71	48		62.4
		OBS								****																					****		
		MIN	42	42	43	41	41	51	30	32	25	47	41	37	32	32	29	33	45	31	26	26	24	27	45	42	43	36	42	49	39	29		36.7
		OBS								****																					****		
NORTHERN CENTRAL 06																																		
ABERDEEN PHILLIPS FLD	16	MAX	65	74			72	71	57	49	49				48	51	63	68			51	54	52		54			61	58	62	62	46		M
		MIN	44	43			42	51	32	37	30				36	32	32	34			27	32	27		45			40	47	55	44	31		M
BALTIMORE WSO CITY	MID	MAX	67	78	82	79	71	64	53	47	50	56	53	49	48	53	74	72	58	45	54	54	56	57	61	58	67	64	58	72	68	46		60.5
		MIN	50	50	54	54	52	44	40	37	35	42	40	36	35	33	36	44	36	32	29	41	37	37	48	44	49	46	46	51	36	33		41.6
BENSON POLICE BARRACKS	17	MAX	73	79	80	76	75	67	58	52	52	58	57	52	50	55	67	73	71	53	56	57	57	60	64	58	68	68	63	66	64	48		62.6
		OBS															*****																	
		MIN						51	33	36	28	46	45	42	41	33	38	46	51	41														M
BOYDS 2 NW	18	MAX																																M
		MIN																																M
CATOCTIN MOUNTAIN PARK	17	MAX	70	73	72	69	68	65	50	50	42	44	48	46	42	46	64	66	62	42	49	51	52	54	56	52	62	59	60	61	61	37		55.8
		MIN	51	48	58	50	52	40	30	33	28	42	32	30	30	28	38	34	41	26	28	35	33	34	38	35	42	51	42	50	34	27		38.0
		OBS										24																						
CLARKSVILLE 3 NNE	17	MAX																																M
		MIN																																M
CONOWINGO DAM	MID	MAX																																M
		MIN																																M
DAMASCUS 2 SW	19	MAX	73	76	75	70	72	64	52	46	50	53	51	51	45	49	68	71	62	46	49	54	53	58	62	55	64	68	63	69	69	43		59.4
		MIN	45	49	53	52	50	45	31	33	31	43	38	35	30	30	36	47	50	29	24	39	32	36	45	40	43	50	44	55	36	28		40.0
		OBS																	39															
EMMITSBURG 2 SE	17	MAX	73	77	76	69	72	67	52	47	48	49	52	47	47	52	70	72	65	48	54	55	54	58	64	56	70	65	53	66	68	46		59.7
		MIN	38	36	41	38	37	45	29	31	24	41	38	36	33	26	26	31	47	28	19	32	24	28	45	40	36	34	35	35	37	31		34.0
FREDERICK POLICE BRKS	17	MAX	76	78	78	78	74	73	53	52	50	50	52	51	54	51	69	73	72	52	51	55	56	58	65	65	69	69	66	68	70	51		62.6
		MIN	41	43	51	44	42	47	33	40	29	43	39	37	36	34	32	40	50	33	25	41	30	33	45	43	40	39	46	43	41	33		39.1
MILLERS 4 NE	18	MAX	73	75	74	69	71	62	52	45	47	54	49	49	45	50	68	70	62	43	51	51	54	57	60	52	64	65	60	67	68	44		58.4
		MIN	43	50	53	48	45	44	30	35	25	42	38	33	33	26	34	38	43	30	27	34	30	34	45	38	42	42	42	46	36	31		37.9
		OBS																48																
ROCKVILLE 1 NE	MID	MAX	74	77	76	72	73	56	53	47	50	54	54	49	46	50	70	73	59	48	52	55	55	60	65	57	69	67	66	73	65	44		60.3
		MIN	44	43	46	43	44	42	32	31	30	43	40	38	34	35	30	39	37	31	26	36	31	31	47	40	49	43	47	57	34	32		38.5
TOWSON	18	MAX	69	78	78	73	70	64	54	49	48	48	50	48	49	43	58																	M
		OBS			87																													
		MIN	45	45	50	51	45	46	33	35	25	44	40	35	32	31	32																	M

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DAILY TEMPERATURES (°F)

MARYLAND AND DELAWARE
NOVEMBER 1990

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
UNIONVILLE	17	MAX	75	76	76	71	73	65	52	47	51	51	52	46	47	53	68	72	59	47	53	55	55	60	65	56	67	68	62	70	69	46		60.2
		MIN	35	34	39	37	36	44	27	30	22	44	37	36	28	23	25	30	44	27	18	22	20	26	45	36	32	31	40	39	34	26		32.2
WESTMINSTER POLICE BRK	17	MAX	73	76	75	73	73	71	55	51	50	56	51	52	50	49	68	70	71	51	52	53	46	57	62	63	65	65	61	69	69	45		60.7
		MIN	40	49	50	51	44	45	31	37	27	42	35	39	31	25	30	40	46	25	23	34	33	33	46	39	41	45	41	44	36	27		37.6
		OBS																							31								
WOODSTOCK	18	MAX	75	80	79	73	74	65	54	48	53	55	54	51	47	54	71	75	63	47	54	55	56	67	66	58	66	65	65	71	70	44		61.8
		MIN	41	41	44	43	40	45	29	32	25	45	39	36	34	28	27	35	46	31	25	33	26	29	46	40	42	37	45	46	40	28		36.6
APPALACHIAN MOUNTAIN	07																																	
CUMBERLAND 2	18	MAX	77	78	78	71	76	62	54	48	49	47	54	48	45	55	74	72	64	50	58	59	56	56	65	59	67	74	63	76	70	48		61.8
		MIN	38	40	41	42	43	41	30	30	35	37	35	34	29	29	30	37	39	24	24	28	28	32	38	37	38	38	38	38	30	20		34.1
		OBS						29											29															
FROSTBURG 2	07	MAX	68	69	70	69	65	67	44	49	38	42	41	43	38	38	49	65	64	43	44	50	50	51	55	56	53	59	65	59	75	34		53.8
		MIN	47	46	47	48	47	37	28	27	28	29	31	29	28	26	27	45	38	26	26	26	29	28	39	32	32	47	44	43	33	24		34.6
HAGERSTOWN	08	MAX	67	75	74	78	75	73	55	52	47	48	47	54	46	46	53	68	74	52	47	55	55	55	57	65	56	68	68	60	69	45		59.5
		OBS																						****	****	****	****	****						
		MIN	40	43	47	46	45	45	36	35	29	33	37	35	34	29	31	37	46	28	26	26	29	29	33	41	38	42	37	39	41	30		36.2
		OBS																						****	****	****	****	****						
HANCOCK	08	MAX	70	73	79	80	71	73	56	57	50	50	49	55	48	48	56	74	65	54	55	59	57	59	58	67	57	70	71	57	77	46		61.4
		MIN	34	35	36	36	36	40	27	28	25	30	39	37	36	25	25	26	27	25	18	25	22	27	29	40	29	30	35	35	40	29		30.9
ALLEGHENY PLATEAU	08																																	
MC HENRY 2 NW	08	MAX	65	67	68	68	64	60	43	45	38	41	38	40	37	35	49	63	61	40	40	48	47	60	60	53	50	58	65	72	72	33		52.7
		MIN	46	47	50	47	47	33	28	25	25	31	28	28	25	23	25	42	33	23	23	28	30	34	46	29	30	48	47	51	28	20		34.0
OAKLAND 1 SE	17	MAX	69	70	68	67	72	65	48	43	44	41	44	41	38	53	65	64	59	44	50	51	59	61	58	53	60	66	74	73	70	39		57.0
		MIN	29	28	37	30	32	32	21	26	25	36	29	28	26	20	25	31	35	19	15	24	18	28	48	31	35	32	40	44	28	22		29.1
SAVAGE RIVER DAM	08	MAX	69	70	72	71	67	72	48	51	42	46	45	47	44	41	52	67	65	46	46	52	52	55	60	58	56	64	67	63	76	38		56.7
		MIN	38	36	37	38	39	40	27	27	28	33	34	33	31	27	27	31	35	28	24	24	26	26	33	36	35	35	35	38	34	27		32.1
DELAWARE																																		
NORTHERN	01																																	
NEWARK UNIVERSITY FARM	17	MAX	69	76	78	74	70	63	54	50	51	63	52	51	48	50	66	73	63	51	49	52	55	59	54	57	66	63	63	68	70	45		60.1
		MIN	41	43	49	43	41	45	30	37	26	42	37	35	32	33	29	39	46	31	27	30	27	29	44	36	48	37	41	40	42	30		37.0
WILMINGTON WSO ARPT	MID	MAX	70	75	77	75	71	63	53	50	49	65	51	48	47	50	66	72	53	48	50	53	52	56	53	52	65	61	60	71	69	45		59.2
		MIN	44	43	49	45	43	40	32	32	28	42	40	36	35	33	32	40	36	31	26	31	31	31	47	40	43	39	45	45	36	30		37.5
WILMINGTON PORTER RSVR	MID	MAX	69	74	77	73	71	63	53	48	49	64	51	47	47	49	65	70	54	44	52	51	55	55	52	51	64	59	60	70	69	44		58.3
		MIN	46	48	52	51	47	41	34	32	30	43	42	37	35	33	35	42	35	32	28	37	30	34	47	41	44	45	46	50	35	31		39.4
SOUTHERN	02																																	
DOVER	17	MAX	74	81	81	79	74	66	59	57	51	62	59	58	52	55	69	73	61	51	54	54	55	56	59	53	66	64	64	76	73	44		62.7
		MIN	48	48	47	50	49	43	37	40	28	44	40	37	37	33	33	44	43	27	27	27	31	31	40	40	43	41	44	45	44	38		39.3
GEORGETOWN 5 SW	08	MAX	67	70	74	79	74	74	65	56	51	64	67	53	50	48	50	67	72	51	48	50	55	57	56	65	60	68	65	72	75	49		61.7
		OBS							75			74																						
		MIN	44	46	46	42	42	41	30	35	25	34	39	33	32	30	29	38	41	32	27	28	25	29	28	38	40	40	44	50	44	32		36.1
		OBS																													34			
GREENWOOD 2 NE	18	MAX	72	78	78	72	74	66	54	49	55	67	52	50	46	50	67	72	55	46	50	53	54	60	61	56	69	62	69	74	70	44		60.8
		MIN	44	43	47	44	44	51	32	32	26	48	42	36	35	32	30	37	38	31	25	29	27	28	46	40	43	38	45	52	39	32		37.9
LEWES	17	MAX	72	79	80	74	75	67	56	51	54	69	52	53	48	48	68	74	60	49	51	51	49	60	62	57	70	64	73	78	72	45		62.0
		MIN	48	54	55	54	52	54	42	42	36	51	44	39	36	35	36	46	47	38	30	37	36	33	46	46	46	43	51	51	44	34		43.5
MILFORD 4 SE	17	MAX	74	80	80	74	76	68	55	51	53	68	51	53	48	51	68	73	62	48	51	54	54	59	63	56	69	66	70	76	73	45		62.3
		MIN	45	50	52	51	45	53	36	37	28	48	44	37	36	31	33	43	46	32	28	33	29	29	43	43	43	40	46	46	43	33		40.1

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EVAPORATION AND WIND

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	TOTAL OR AVG
MARYLAND																																	
UPPER SOUTHERN 04																																	
UPPER MARLBORO 3 NNW	WIND	2	0	1	3	1	27	16	6	15	6	28	30	15	23	1	1	9	23	17	4	8	1	2	5	15	14	3	8	32	21		337
	EVAP	7	7	6	9	9	14	11	10	8	-	11	17	8	9	7	6	4	9	11	6	8	4	-	9	11	9	6	5	4	9		2.51B
	MAX	65	77	70	70	66	69	64	55	52	50	52	54	53	50	52	57	61	52	50	48	53	52	54	62	56	62	60	63	62	53		58.1
	MIN	43	46	46	46	46	46	36	36	36	36	38	36	36	34	34	36	40	35	35	33	34	34	36	40	40	41	41	46	50	34		39.0
DELAWARE																																	
NORTHERN 01																																	
NEWARK UNIVERSITY FARM	WIND	11	19	35	12	25	102	30	65	15	69	116	143	94	81	19	34	42	71	55	35	27	16	7	53	56	31	25	7	77	72		1444
	EVAP	-	18	8	3	1	14	5	6	4	11	2	15	11	6	5	12	-	11	8	7	5	3	-	14	5	6	3	-	11	15		2.41B
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		M
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		M

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)

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																																
APPALACHIAN MOUNTAIN 07																																
FROSTBURG 2	SNOWFALL												T	T												T					T	
	SN ON GND																														T	
ALLEGHENY PLATEAU 08																																
MC HENRY 2 NW	SNOWFALL								T																.5							
	SN ON GND								T																T							
OAKLAND 1 SE	SNOWFALL							T					T					T							T						T	
	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

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	17	07		H	NATIONAL PARK SERVICE
BALTIMORE WSO ARPT R	04650	04	ANNE ARUNDEL	39 11	76 40W	148	MID	MID		C HJ	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	INACTIVE 04/01/90
EDGEMONT	27700	07	WASHINGTON	3.9 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
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	08		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	17	07		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
WOODSTOCK	97500	06	BALTIMORE	39 20	76 52W	459	18	18		H	JOHN A HILTZ

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
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	08C	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	17C	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.

SUBSCRIPTION, PRICE AND ORDERING INFORMATION AVAILABLE FROM:

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

USCOMM-NOAA-ASHEVILLE, N.C. NOVEMBER 1990-0585

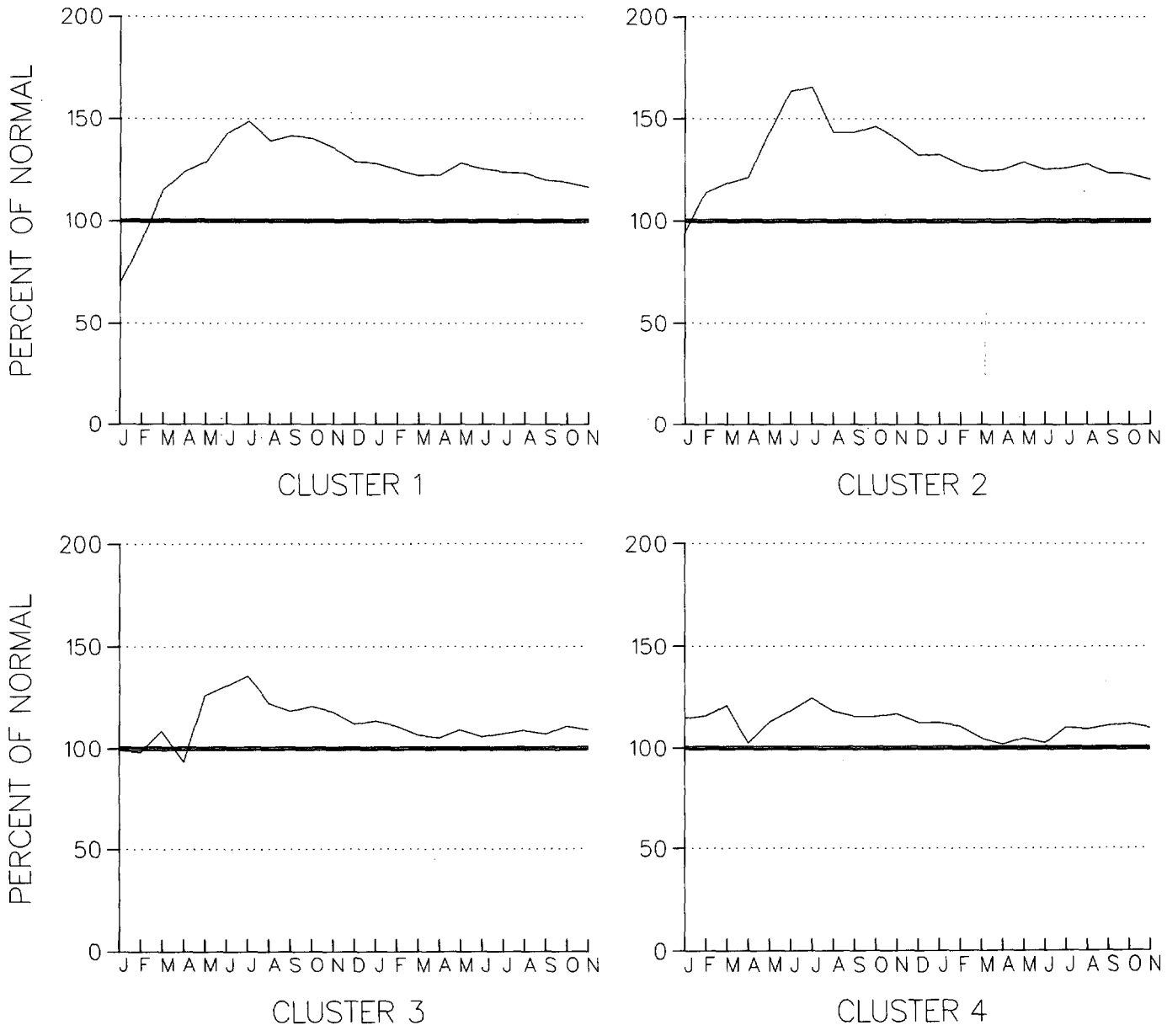
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951–1980)
FOR THE LAST 23 MONTHS
ENDING NOVEMBER 1990
MARYLAND

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

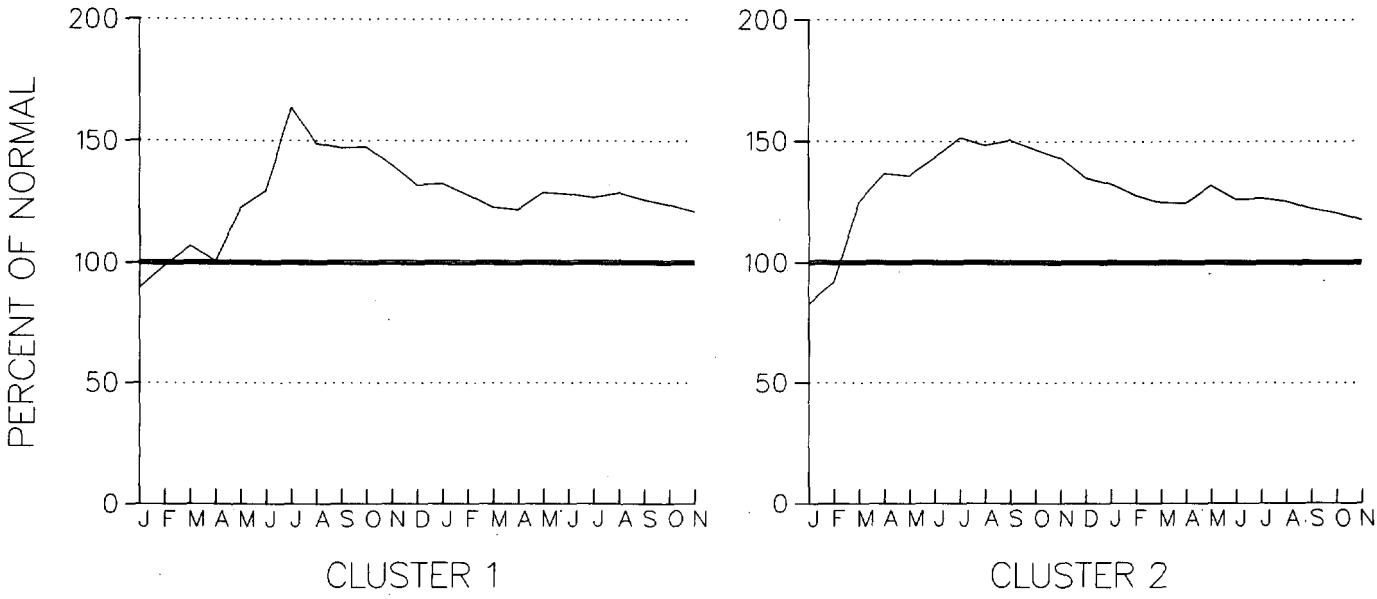
CLUSTER 4 –DIVISION(S):
ALLEGHENY PLATEAU 08



CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951–1980)
FOR THE LAST 23 MONTHS
ENDING NOVEMBER 1990
DELAWARE

CLUSTER 1 –DIVISION(S):
NORTHERN 01

CLUSTER 2 –DIVISION(S):
SOUTHERN 02



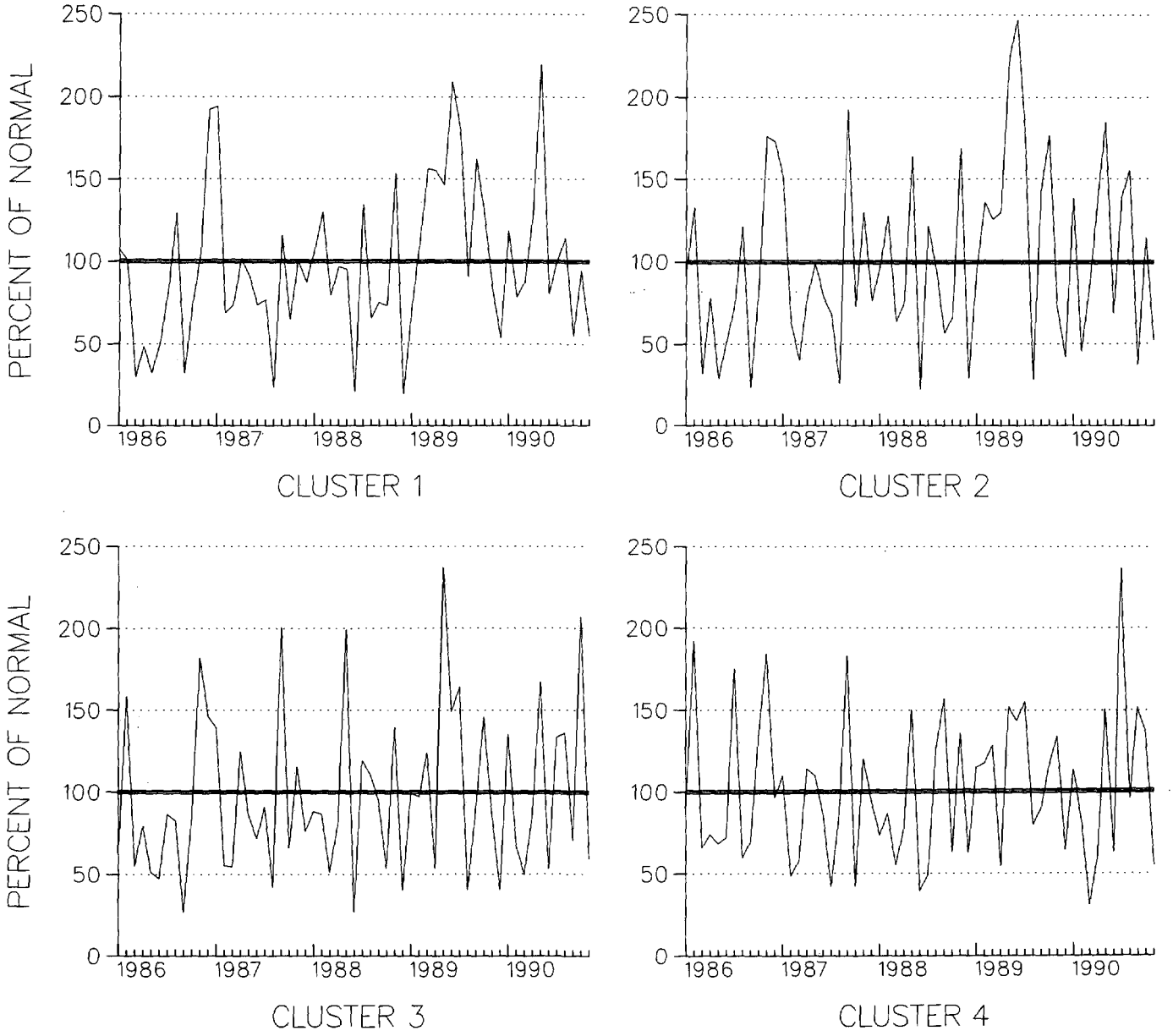
PRECIPITATION DEPARTURES FROM NORMAL (1951–1980)
FOR THE 59 MONTHS
ENDING NOVEMBER 1990
MARYLAND

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

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

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

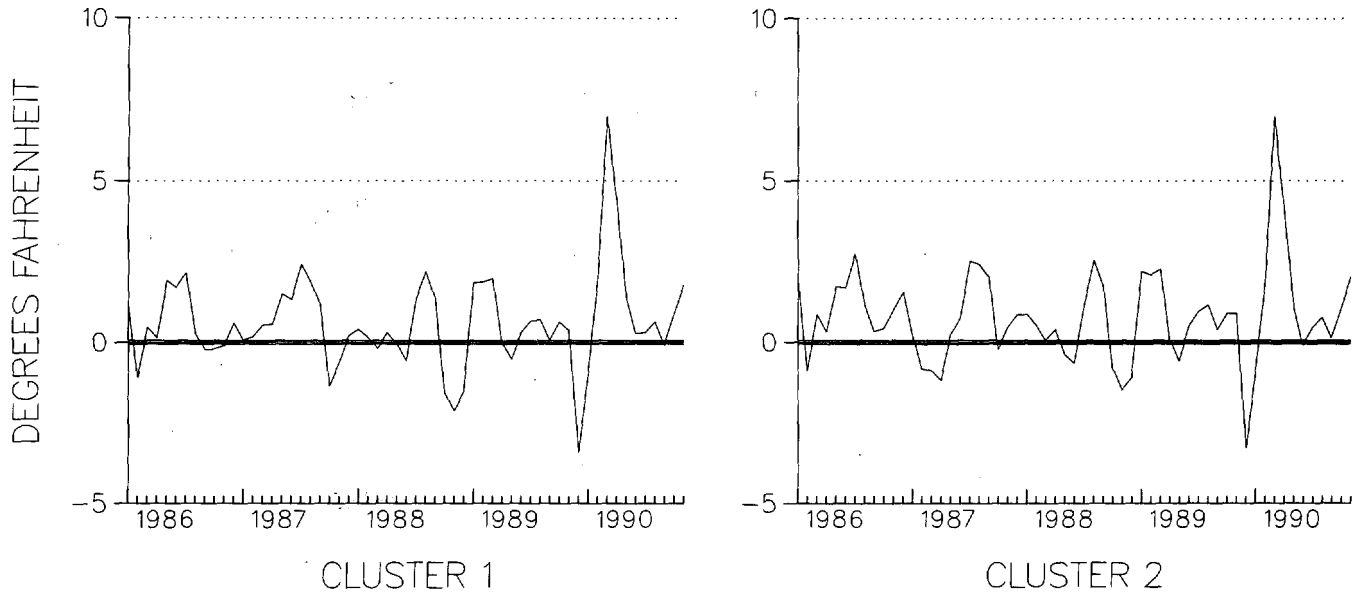
CLUSTER 4 –DIVISION(S):
ALLEGHENY PLATEAU 08



TEMPERATURE DEPARTURES FROM NORMAL (1951–1980)
THREE MONTH RUNNING MEAN
FOR THE 59 MONTHS ENDING WITH NOVEMBER 1990 DATA
DELAWARE

CLUSTER 1 –DIVISION(S):
NORTHERN 01

CLUSTER 2 –DIVISION(S):
SOUTHERN 02



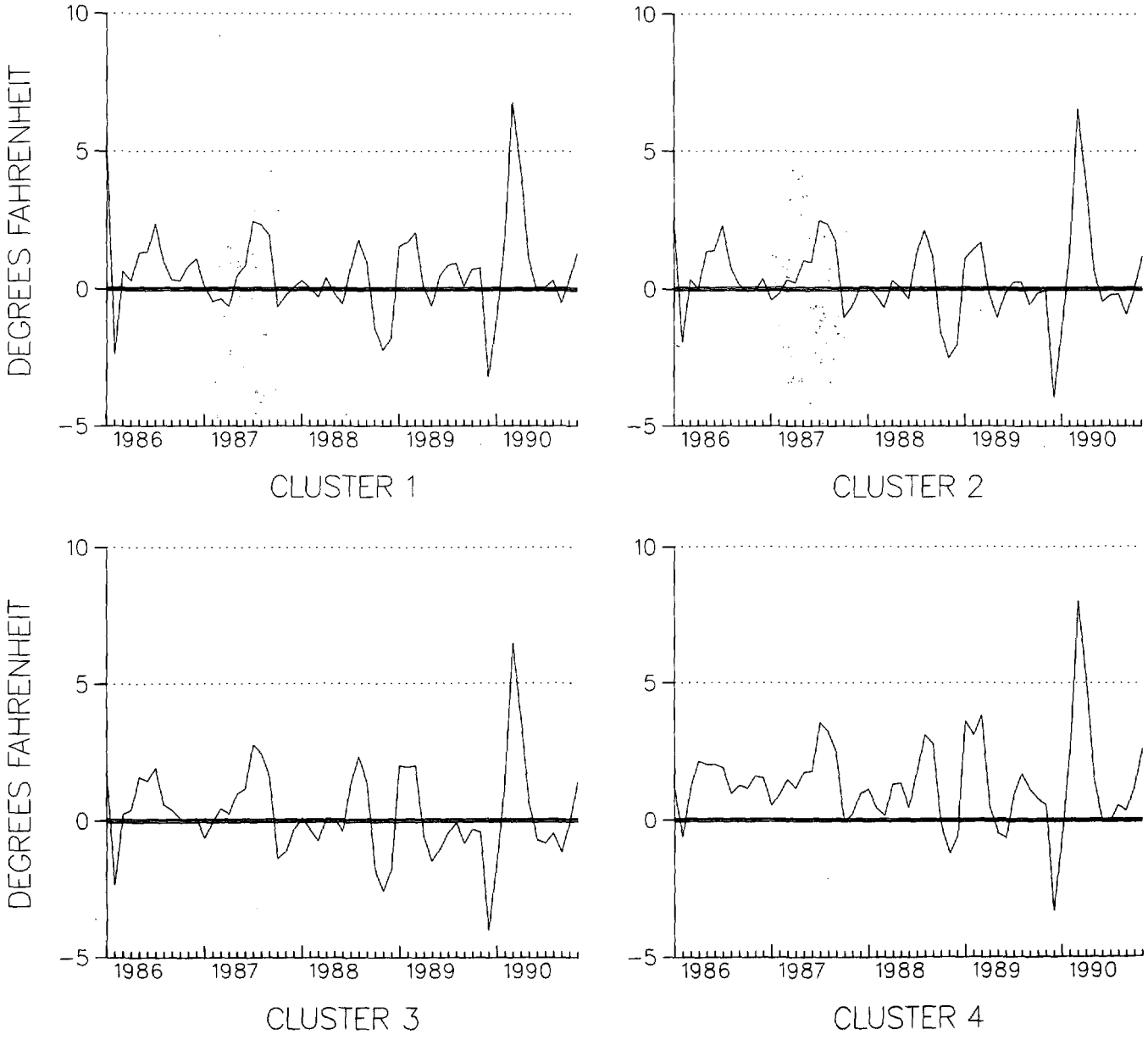
TEMPERATURE DEPARTURES FROM NORMAL (1951–1980)
THREE MONTH RUNNING MEAN
FOR THE 59 MONTHS ENDING WITH NOVEMBER 1990 DATA
MARYLAND

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

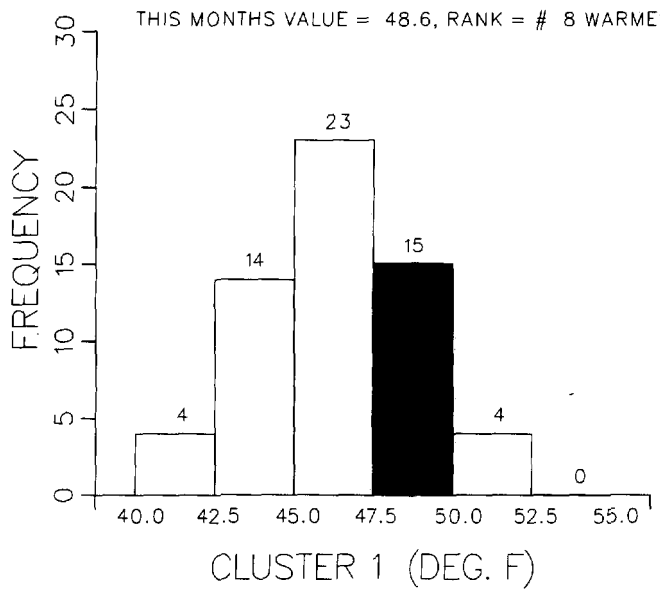
CLUSTER 4 –DIVISION(S):
ALLEGHENY PLATEAU 08

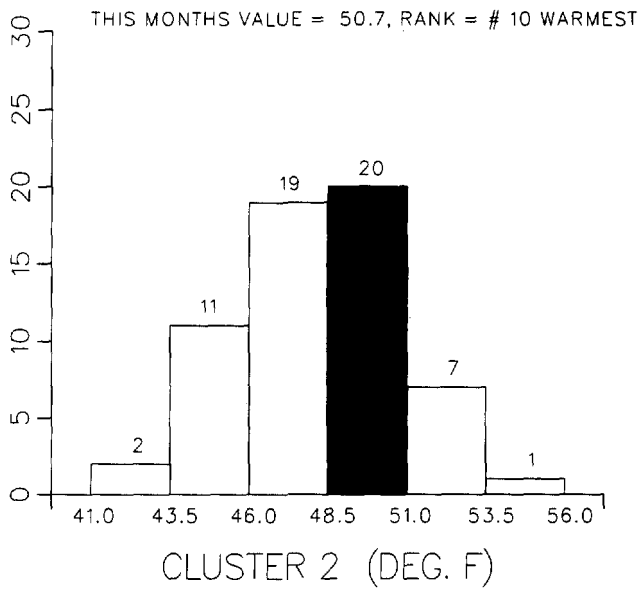


MEAN MONTHLY TEMPERATURE FREQUENCY DISTRIBUTION
FOR PERIOD OF RECORD 1931–1990
FOR MONTH OF NOVEMBER
DELAWARE

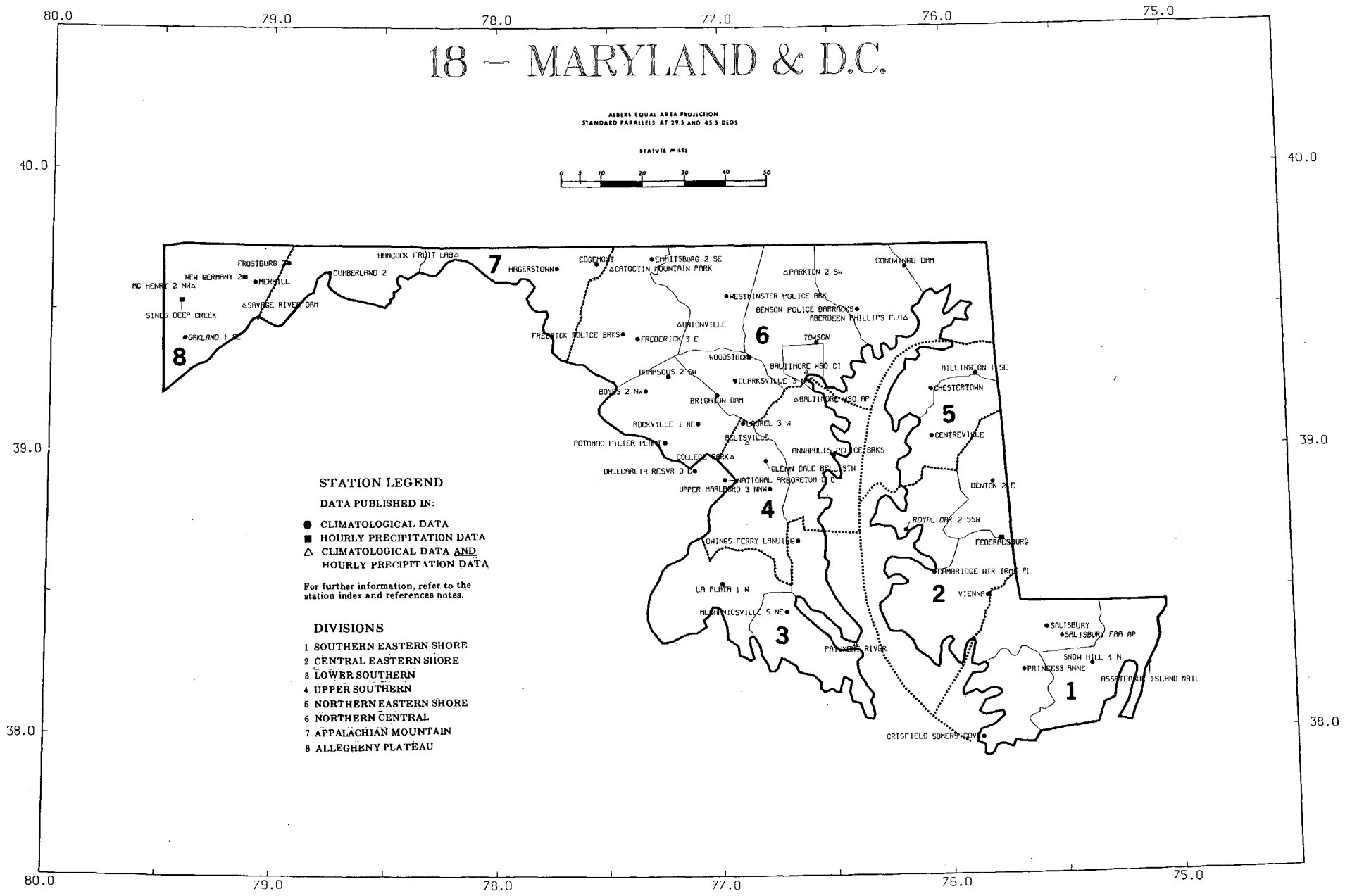
CLUSTER 1 –DIVISION(S):
NORTHERN 01

CLUSTER 2 –DIVISION(S):
SOUTHERN 02





18 — MARYLAND & D.C.



STATION LEGEND

DATA PUBLISHED IN:

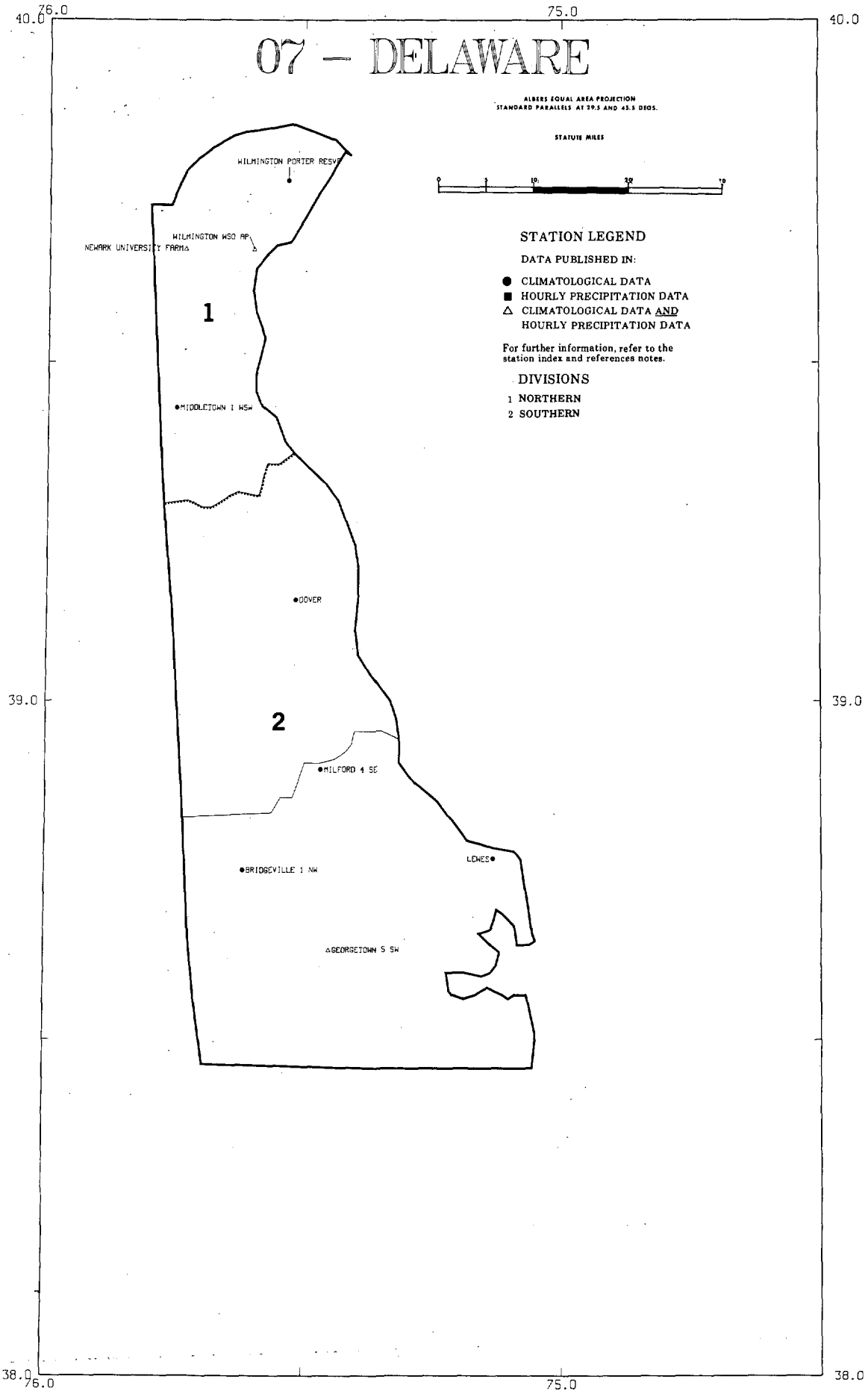
- ● CLIMATOLOGICAL DATA
- ■ HOURLY PRECIPITATION DATA
- △ CLIMATOLOGICAL DATA AND HOURLY PRECIPITATION DATA

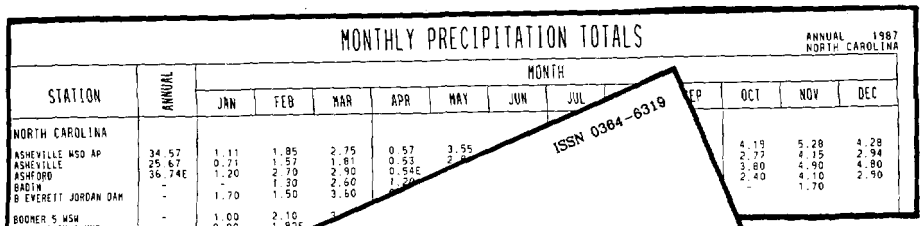
For further information, refer to the station index and references notes.

DIVISIONS

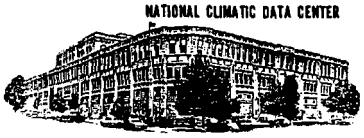
1 SOUTHERN EASTERN SHORE
2 CENTRAL EASTERN SHORE
3 LOWER SOUTHERN
4 UPPER SOUTHERN
5 NORTHERN EASTERN SHORE
6 NORTHERN CENTRAL
7 APPALACHIAN MOUNTAIN
8 ALLEGHENY PLATEAU

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
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



NATIONAL CLIMATIC DATA CENTER



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CD
VALIDATED BY:

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

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