

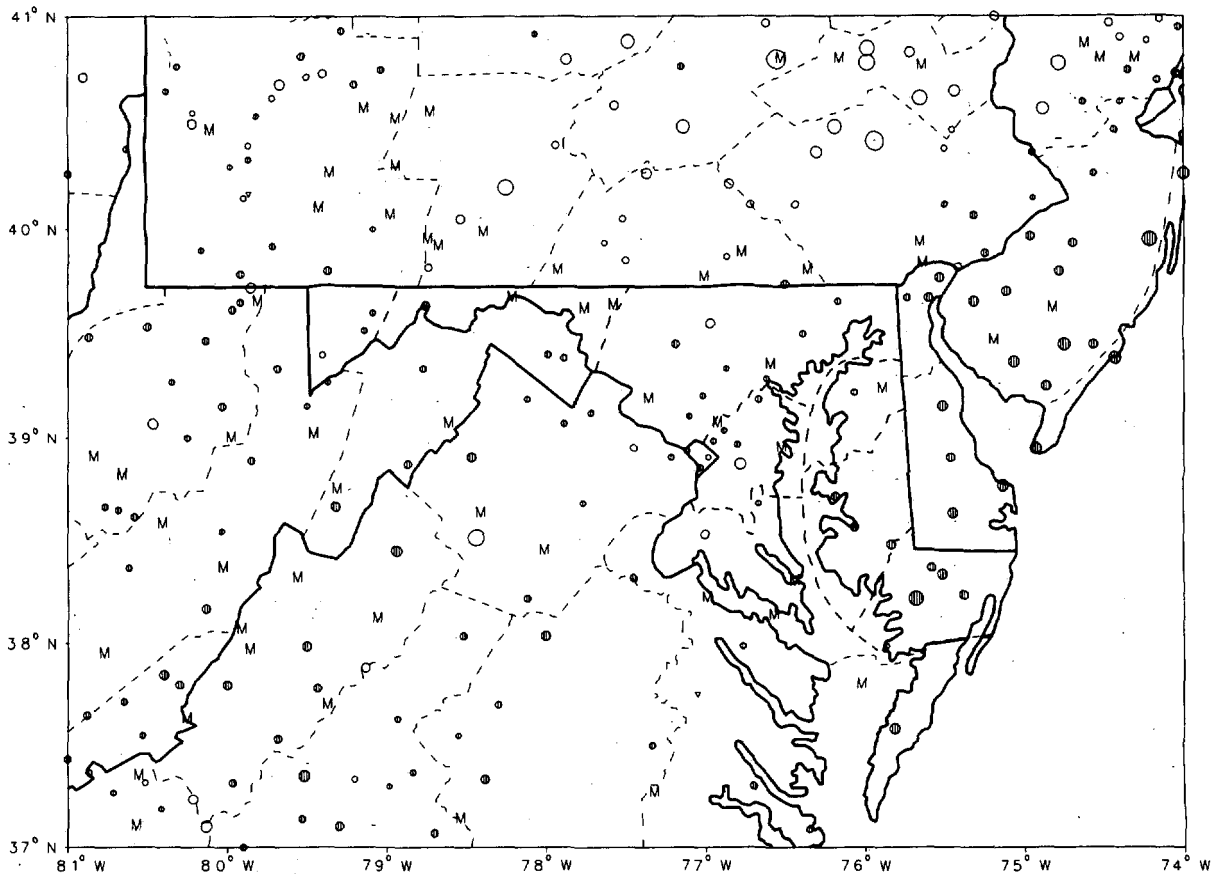
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CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

JANUARY 1991 VOLUME 95 NUMBER 1

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

- M INCOMPLETE DATA FOR THE MONTH
- ▽ EXACTLY NORMAL
- ○ ○ ○ ○ 5, 10, 20, ... 50% OR MORE BELOW NORMAL
- ● ● ● ● 10, 20, 40, ... 100% OR MORE ABOVE NORMAL



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

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Kenneth D. Haden

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

noaa

NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE NORTH CAROLINA

TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND AND
DELAWARE
JANUARY 1991

MARYLAND
HIGHEST TEMPERATURE 62
LOWEST TEMPERATURE -12
GREATEST TOTAL PRECIPITATION 7.04
LEAST TOTAL PRECIPITATION 2.70
GREATEST 1 DAY PRECIPITATION 2.17
GREATEST TOTAL SNOWFALL 33.5
GREATEST DEPTH OF SNOW OR ICE 15

JANUARY 16
JANUARY 23

JANUARY 9
JANUARY 12

4 STATIONS
OAKLAND 1 SE
PRINCESS ANNE
UPPER MARLBORO 3 NNW
VIENNA
MC HENRY 2 NW
FROSTBURG 2

DELAWARE
HIGHEST TEMPERATURE 62
LOWEST TEMPERATURE -9
GREATEST TOTAL PRECIPITATION 5.68
LEAST TOTAL PRECIPITATION 3.70
GREATEST 1 DAY PRECIPITATION 1.90
GREATEST TOTAL SNOWFALL 7.0
GREATEST DEPTH OF SNOW OR ICE 6

JANUARY 16+
JANUARY 23

JANUARY 9
JANUARY 7

2 STATIONS
GEORGETOWN 5 SW
LEWES
NEWARK UNIVERSITY FARM
MILFORD 4 SE
NEWARK UNIVERSITY FARM
NEWARK UNIVERSITY FARM

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
JANUARY 1991

STATION	TEMPERATURE (° F)												PRECIPITATION (IN)						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW SLEET NO. OF DAYS		
									90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE
MARYLAND																			
SOUTHERN EASTERN SHORE 01																			
ASSATEAGUE IS NATL SEA	43.7	30.7	37.2		5520	1122	856	0	0	0	217	0	5.79		2.00	8			
CRISFIELD SOMERS COVE	46.7	32.1	39.4	2.6	5623+	1823	783	0	0	0	113	0	3.25	.02	1.60	9	T	T	10
PRINCESS ANNE	49.5	28.9	39.2	3.6	6216	1326+	794	0	0	0	17	0	7.04	3.71	1.82	12	T	T	9
SALISBURY	49.3	29.8	39.6	3.1	6216	1223	780	0	0	0	18	0	4.87	1.35	1.70	12	T	T	7
SALISBURY FAA ARPT	48.3	28.0	38.2	3.1	6216	1023	824	0	0	0	22	0	5.20	1.82	2.05	11	T	T	8
SNOW HILL 4 N	49.4	29.3	39.4	3.4	6017+	923	790	0	0	0	20	0	5.31	1.68	1.74	12	T	T	7
--DIVISIONAL DATA----->																			
CENTRAL EASTERN SHORE 02																			
CAMBRIDGE WATER TRMT P	47.7	29.6	38.7	4.0	6016	1626+	808	0	0	0	21	0	4.68	1.19	1.49	9	T	T	5
ROYAL OAK 2 SSW	46.3	30.1	38.2	3.2	5716	1623	824	0	0	0	20	0	4.73	1.29	1.44	9	T	T	7
VIENNA	47.6	26.3	37.0	1.1	6116	1123	861	0	0	0	22	0	5.26	1.74	2.17	9	M	T	6
--DIVISIONAL DATA----->																			
LOWER SOUTHERN 03																			
LA PLATA 1 W	47.3	28.9	38.1	3.5	5731+	1423	826	0	0	0	20	0	2.83	-.31	.76	12	M	T	7
MECHANICSVILLE 5 NE	46.6	27.6	37.1		5916	1023	856	0	0	0	23	0	3.65		1.03	11	M	T	5
OWINGS FERRY LANDING	45.8	27.0	36.4	1.9	5731+	1023	880	0	0	0	21	0	3.26	.12	1.06	12	M	T	7
PATUXENT RIVER		M	M	M															
TALL TIMBERS		M	M	M															
--DIVISIONAL DATA----->																			
UPPER SOUTHERN 04																			
ANNAPOLIS POLICE BRKS	46.0	22.5	34.3		6216	823	945	0	0	0	29	0	3.50		1.49	12			4
BALTIMORE WSO ARPT	44.9	26.1	35.5	2.8	5630+	1223	907	0	0	0	25	0	3.54	.54	1.60	11			2
BELTSVILLE	44.0	24.0	34.0	2.7	5716	923	953	0	0	0	28	0	3.03	.12	1.47	12			3
COLLEGE PARK	44.8	27.5	36.2	2.2	5916	1123	884	0	0	0	24	0	3.20	.19	1.36	12			2
DALECARLIA RESVR DC	46.8	20.7	33.8	-1.1	5915	723+	961	0	0	0	30	0	3.37	.30	.99	12	M	T	0
GLENN DALE BELL STN	47.8	24.3	36.1	2.9	5921+	723	889	0	0	0	25	0	3.45	.39	1.10	12	M	T	5
LAUREL 3 W		M	M	M															
NATIONAL ARBORETUM DC	45.9	27.2	36.6	1.8	5916	1423	872	0	0	0	24	0	3.14	-.03	1.40	12	M	T	0
UPPER MARLBORO 3 NNW	45.4	21.7	33.6		5821	526	967	0	0	0	28	0	2.70	-.58	1.13	12			3
--DIVISIONAL DATA----->																			
NORTHERN EASTERN SHORE 05																			
CHESTERTOWN	44.9	25.9	35.4	2.3	5916	1426+	910	0	0	0	25	0	3.66	.38	1.00	11			4
MILLINGTON 1 SE	45.5	26.0	35.8	3.6	6016	1123	900	0	0	0	25	0	2.15		1.16	12			0
--DIVISIONAL DATA----->																			
NORTHERN CENTRAL 06																			
ABERDEEN PHILLIPS FLD	44.1	28.7	36.4		5716	1426	880	0	0	0	19	0	3.43		1.35	12	M	T	6
BALTIMORE WSO CITY	42.8	28.5	35.7	5.2	5528+	1522	934	0	0	0	318	0	3.20	.13	1.56	11			5
BENSON POLICE BARRACKS	46.0	26.8	36.4	5.2	5820	1323+	880	0	0	0	24	0	3.91	.48	1.30	12			4
BOYDS 2 NW		M	M	M															
CATOCTIN MOUNTAIN PARK	38.5	23.4	31.0		4830+	722	1047	0	0	0	327	0	3.54		.85	16			6
CLARKSVILLE 3 NNE	45.0	24.4	34.7		5719	723	934	0	0	0	26	0	3.12		.87	7			7
CONOWINGO DAM	45.4	20.7	33.1	2.9	5820	723	983	0	0	0	131	0	3.65	.32	1.08	11			0
DAMASCUS 2 SW	41.6	26.6	34.1		5330	1122	951	0	0	0	221	0	3.74		1.02	11			10
EMMITSBURG 2 SE	41.3	23.5	32.4		5320	1026+	1002	0	0	0	228	0	3.75		.70	16+			9

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
JANUARY 1991

STATION	TEMPERATURE (°F)													PRECIPITATION (IN)													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW			SLEET			NO. OF DAYS		
											90 OR ABOVE	32 OR BELOW MAX	32 OR BELOW MIN	0 OR BELOW N					TOTAL	MAX DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE			
FREDERICK POLICE BRKS					53	24	11	23			0	0	2	2	0	2.72		.59	16	8.0	6	11	8	2	0		
MILLERS 4 NE	40	24.8	32.8		55	15	10	23	988		0	0	2	2	0	3.28		.68	11	7.9	5	7	8	4	0		
ROCKVILLE 1 NE	40	26.3	34.8	1.5	56	0	1	23	931		0	0	3	4	0	3.03	.08	.23	11	8.2	5	8+	8	9	1		
TOWSON																											
UNIONVILLE	41	22.5	32.2	2.7	54	20	8	26+	1010		0	0	2	2	0	3.60	.84	.87	7	9.0	5	11+	8	4	0		
WESTMINSTER POLICE BRK	43	26.0	34.7	4.6	56	15	12	26	930		0	0	1	2	0	2.77	.35	.79	7	9.0	7	11	7	1	0		
WOODSTOCK	44	25.1	34.6	3.2	56	19	9	23	935		0	0	2	2	0	3.18	.04	.80	7	9.0	4	8+	7	2	0		
-- DIVISIONAL DATA ----->																											
APPALACHIAN MOUNTAIN 07			34.1	2.5											3.35	.22			8.3								
CUMBERLAND 2	41	22.5	32.2	1.3	57	15	8	23+	1011		0	0	3	2	0	3.47	.94	.77	8	12.0	8	12	6	5	0		
FROSTBURG 2	45	19.1	27.1		49	31+	3	23	1170		0	0	1	3	0	3.78		.88	12	28.6	15	12	6	9	0		
HAGERSTOWN	40	23.2	31.9	1.3	54	21	1	23+	1017		0	0	3	2	0	2.87		.74	12	4.0	3	14+	3	3	0		
HANCOCK	42	19.9	31.0	1.8	55	30+	6	23	1044		0	0	2	2	0	1.11		.70	16	6.0	0		3	1	0		
-- DIVISIONAL DATA ----->																											
ALLEGHENY PLATEAU 08			30.6	.5											3.63	.88			12.7								
MC HENRY 2 NW	34	18.3	26.5		52	17	0	26+	1190		0	0	1	4	0	5.05		.75	7	33.5	12	28	13	2	0		
OAKLAND 1 SE	37	19.0	28.5	2.3	54	16	1	23	1125		0	0	8	2	0	3.70	-.09	1.05	11	26.3	7	8+	8	9	1		
SAVAGE RIVER DAM	37	19.4	28.4	2.0	49	6	2	24+	1127		0	0	6	3	0	2.88	.28	.63	7	5.0	5	12+	8	3	0		
-- DIVISIONAL DATA ----->																											
DELAWARE			27.8	2.3											3.88	.35			29.9								
NORTHERN 01																											
NEWARK UNIVERSITY FARM	44	25.4	35.1	3.4	56	20	1	23	919		0	0	1	2	0	3.70	.60	1.18	12	7.0	6	7	6	4	1		
WILMINGTON WSO ARPT	43	25.5	34.3	3.1	55	20+	1	22	943		0	0	3	2	0	4.30	1.19	1.29	11	5.2	3	9+	7	4	1		
WILMINGTON PORTER RSVR	41	26.6	34.2	3.4	55	16	1	22	947		0	0	3	2	0	4.85	1.56	1.29	11	5.0	5	7	7	3	2		
-- DIVISIONAL DATA ----->																											
SOUTHERN 02			34.5	2.9											4.28	1.15			6.1								
DOVER	47	28.8	38.0	3.6	62	15	1	23	827		0	0	1	2	0	5.13	1.89	1.75	9	4.5	5	7	9	3	2		
GEORGETOWN 5 SW	46	26.5	36.7	2.5	61	17	9	23	871		0	0	1	2	0	5.29	1.94	1.61	12	1.0	0	0	9	3	2		
GREENWOOD 2 NE	45	27.7	36.8		60	16	1	23	867		0	0	2	2	0	5.31		1.72	9	2.6	2	8+	6	5	2		
LEWES	47	32.0	39.6	5.0	59	31+	1	23	782		0	0	0	1	0	5.68	2.21	1.88	9	1.8	0	0	5	4	2		
MILFORD 4 SE	47	28.6	37.8	3.5	62	16	1	23	836		0	0	1	2	0	4.89	1.50	1.90	9	1.8	2	8+	6	3	2		
-- DIVISIONAL DATA ----->																											
			37.8	3.3											5.26	1.83			2.5								

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
JANUARY 1991

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	5.79	.20	.19	T		.06	.65	2.00	.30	.13	1.55				.40	.12			.10		.21	.05		.06		T					.03			
CRISFIELD SOMERS COVE	3.25	*	.05				.52	.27	1.60	.25						.30					.12	.03												
PRINCESS ANNE	7.04		.15				.36	.35	1.44		.40	1.82	1.80			.57					.12	.03												
SALISBURY	4.87		.14				.40	.14	1.30	T	.45	1.70	.02			.55					.09	.02										.03		
SALISBURY FAA ARPT	5.20		.11			T	.41	.81	.65		2.05	.26				.81					.10	.07										T		
SNOW HILL 4 N CENTRAL EASTERN SHORE 02																																		
CAMBRIDGE WATER TRMT P	4.68		T			T	.46	.05	1.49		.42	1.31	.02			.84	.05					.04	.08										T	
ROYAL OAK 2 SSW	4.73		T			.03	.87	T	1.44		.52	1.19	.12			.45	.03				T													
VIENNA	5.26		.09					.10	2.17	*	.40	1.55	.50			.30	.15																	
LOWER SOUTHERN LA PLATA 1 W 03																																		
MECHANICSVILLE 5 NE	3.65					T	.84	.05	.65		1.03	.84				.23	T				.01	T									T	T		
OWINGS FERRY LANDING	3.26					.03	.18	T	.63		.73	1.06				.56	T				.02	.05									T	T		
PATUXENT RIVER	M																																	
TALL TIMBERS	M																																	
UPPER SOUTHERN ANNAPOLIS POLICE BRKS 04																																		
BALTIMORE HSO ARPT	R 3.54					.06	.17	.92	.02	.04		1.60	.03			.53					T	.14										.03		
BELTSVILLE	3.03					.05	.41	.46				1.47	.10			.31																		.05
COLLEGE PARK	3.20						.62	.29				.31	1.36			.36	.12					.08												.06
DALECARLIA RESVR DC	3.37					.06	.90	.03				.70	.99	.01		.47	.04				.04													.05
GLENN DALE BELL STN	3.45					.04	.74		.04			.38	1.10	.17		.42	.47					.06												.03
LAUREL 3 W NATIONAL ARBORETUM DC UPPER MARLBORO 3 NNW 05																																		
CHESTERTOWN	M 3.66					.05	.08	.55	.18	.74		1.00	.35	T		.64			T			T										.03	.04	
MILLINGTON 1 SE	M 2.15					.06							1.16			.55	.07					.25										T	.06	
NORTHERN CENTRAL ABERDEEN PHILLIPS FLD 06																																		
BALTIMORE HSO CITY	R 3.43						.86	T	.28			.21	1.35			.38	.21		*	*		.13									T	.01		
BENSON POLICE BARRACKS	3.20					.02	.03	.82	.02	.05		1.56	.06			.45						.15										T	.04	
BOYDS 2 NW	3.91	.08					.13	.81	T	.04		.45	1.30			.55	.15					.22										T	.18	
BRIGHTON DAM	M 3.20					.10	.20	.70				1.50	.10			.40																	.20	
CATOCTIN MOUNTAIN PARK CLARKSVILLE 3 NNE CONOWINGO DAM DAMASCUS 2 SW EMMITSBURG 2 SE 07																																		
CATOCTIN MOUNTAIN PARK	3.54			.05			.28	T	.83			.82	.43			.85	.02					.12										.02	.12	
CLARKSVILLE 3 NNE	3.12						.28	T	.05			.34	.85			.39	.07					.11									T	.16		
CONOWINGO DAM	3.65				.04		.12	.43	.13	.08		1.08	.51			.63						.38										.23	.02	
DAMASCUS 2 SW	3.74				.04		.33	.85	.02	.11		1.02	.33			.64	.04				T	.09										.22	.05	
EMMITSBURG 2 SE	3.75						.20	.65		.15	.50	.50	.70			.70						.05										.05	.25	
FREDERICK POLICE BRKS MILLERS 4 NE POTOMAC FILTER PLANT ROCKVILLE 1 NE TOWSON 08																																		
FREDERICK POLICE BRKS	2.72					.20	.40		.23			.40	.57	T		.59	T					.27										.12	.21	
MILLERS 4 NE	3.28				T	.14	.65	T	.16			.68	.64			.52	.03	T				.07									.05	.14		
POTOMAC FILTER PLANT	2.84				.04	.12	.83	.01	.01			1.15	.13			.55					T													
ROCKVILLE 1 NE	3.03				.10	.20	.64	.04	.03			1.23	.08	T		.50	T				T	.07										.14		
TOWSON	M																																	
UNIONVILLE WESTMINSTER POLICE BRK WOODSTOCK 09																																		
UNIONVILLE	3.60					.15	.87		.19			.69	.65			.71	.03					.10										.06	.15	
WESTMINSTER POLICE BRK	2.77					.13	.79		.20			.34	.44			.40	.06					.37										.04		
WOODSTOCK	3.18				.06	.31	.80		.06			.39	.76			.40																.18	.22	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
JANUARY 1991

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
APPALACHIAN MOUNTAIN 07																																		
CUMBERLAND 2	3.47							.55	.77	.07		.67	.62				.54	.18					.02	T										
EDGEMONT	M 3.78	T			T		T	.48	.27	.12	T	.69	.88	T	.02		.49	.29	.06	.01		.14	.07	T	.02	T	T							
FROSTBURG 2	M 2.87							.02	.55	.15	.08		.74				.50	.48	.01			.05												
HAGERSTONN	M 1.11																.70	.20				.04												
HANCOCK																																		
ALLEGHENY PLATEAU 08																																		
MC HENRY 2 NW	5.05	.09			T		.06	.75	.15	.08	.09	.68	.45	.28	.03		.35	.30	.12	.04		.41	.26		.08									
MERRILL	3.05						.70	.12	.12		.70	.14		.03			.60	.27				.20	.03											
OAKLAND 1 SE	3.70					T	.08	.81	.09	T	1.05	.26	.03				.53	.12	T			.13	.05	T	T		T							
SAVAGE RIVER DAM	2.88	T			T	T	.01	.63	.15	.08	T	.57	.47	.02	T		.50	.12	T			.12	T		.01									
DELAWARE NORTHERN 01																																		
NEWARK UNIVERSITY FARM	3.70						.06	.62		.82		.02	1.18				.69	.10				.21												
WILMINGTON HSO ARPT	R 4.30						.01	.04	.56	.06	.99		1.29	.15			.84		T	T	T	.26												
WILMINGTON PORTER RSVR	4.85						.02	.07	.37	.08	1.25		1.29	.27			.93					.36												
SOUTHERN 02																																		
DOVER	5.13							.10	.40	.07	1.75		.25	1.51	.04		.62					.10												
GEORGETOWN 5 SW	5.29							.22	.10	1.47		.41	1.61	.24			.50																	
GREENWOOD 2 NE	5.31							.02	.78	.04	1.72		.64	1.07	.12		.78					.09												
LEWES	5.68							T	.53	.03	1.88		.40	1.61	.09		.89	.04				.07												
MILFORD 4 SE	4.89							.02	.64		1.90		.32	1.29	.12		.43	.05				.06												

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JANUARY 1991

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
MARYLAND																																				
SOUTHERN EASTERN SHORE 01																																				
ASSATEAGUE IS NATL SEA	17	MAX OBS MIN OBS	40 60 26	43 31 31	47	39	41	49	44	43	44	38	51	42	39	42	50	52	48	48	48	55	42	30	37	41	31	37	45	48	47	51	43	43.7		
CRISFIELD SOMERS COVE	17	MAX OBS MIN OBS	44 *** 25 ***	46 *** 27 ***	48	48	46	48	38	37	44	45	48	48	44	46	44	56	56	48	46	51	53	38 53	40 21	41 18	41 34	40 23	40 19	50 26	55 28	56 26	52 42	52 42	46.7	
PRINCESS ANNE	17	MAX MIN	46 23	46 33	53 27	45 33	46 19	54 36	51 31	37 25	45 33	48 28	47 33	59 38	44 33	44 22	55 29	62 36	60 41	48 27	52 27	57 40	50 36	38 18	40 13	45 34	43 21	43 13	48 22	55 23	57 26	58 38	58 38	49.5		
SALISBURY	17	MAX MIN	45 23	46 35	47 28	46 30	45 21	51 34	47 30	38 25	45 34	47 31	38 36	60 38	43 33	45 22	58 29	62 36	61 40	48 29	53 29	58 39	53 34	34 17	41 12	44 30	43 22	43 16	48 24	55 36	57 29	59 41	59 38	49.3		
SALISBURY FAA ARPT	MID	MAX MIN	45 25	48 30	49 27	40 23	47 20	52 35	43 31	42 28	45 34	47 32	58 37	59 40	41 24	45 20	57 28	62 45	50 43	47 28	53 28	57 41	45 27	27 11	40 10	44 35	35 17	42 12	48 20	55 27	56 25	59 37	59 28	48.3		
SNOW HILL 4 N	18	MAX MIN	44 22	46 36	52 27	45 32	44 20	56 32	50 32	41 30	47 37	47 33	46 32	57 41	44 35	46 19	57 28	60 36	60 42	49 27	53 27	58 41	49 37	37 19	43 9	45 30	42 21	43 11	47 19	53 32	54 24	59 39	57 39	49.4		
CENTRAL EASTERN SHORE 02																																				
CAMBRIDGE WATER TRMT P	16	MAX MIN	48 27	47 31	47 26	43 30	47 20	47 36	47 30	33 23	40 24	45 31	45 32	57 36	43 34	45 22	54 29	60 42	57 41	49 31	52 28	51 40	48 36	39 21	39 16	45 30	44 21	40 16	46 27	53 36	56 28	56 36	56 38	47.7		
ROYAL OAK 2 SSW	18	MAX MIN	45 24	47 29	46 29	40 31	44 23	46 39	43 32	32 20	40 30	44 30	42 32	55 37	40 34	45 23	53 30	57 38	53 42	47 30	51 29	56 40	49 36	36 19	41 16	42 34	41 23	38 17	44 24	52 38	55 27	55 38	55 38	46.3		
VIENNA	18	MAX OBS MIN OBS	47 18	49 22	46 23	40 28	48 16	50 42	48 24	35 18	43 17	46 26	43 38	58 32	43 ***	45 26	56 38	61 ***	52 ***	53 28	54 34	48 35	48 26	36 ***	40 ***	45 33	43 12	43 11	43 25	56 15	56 13	54 24	55 32	55 36	47.6	
LOWER SOUTHERN 03																																				
LA PLATA 1 W	18	MAX MIN	42 22	50 26	48 28	44 27	44 21	47 38	46 33	33 22	38 28	46 28	41 30	44 33	41 34	46 22	56 29	57 40	53 37	50 28	55 27	56 38	52 35	35 18	41 14	45 32	42 21	41 15	47 21	55 39	57 30	57 41	57 38	47.3		
MECHANICSVILLE 5 NE	19	MAX MIN	42 21	50 25	46 26	41 27	44 19	47 37	43 32	32 22	40 31	46 26	43 32	46 35	40 31	46 20	55 28	59 36	54 37	50 28	52 26	57 40	50 32	41 17	45 10	45 29	37 20	40 12	46 20	53 37	54 27	56 38	58 36	46.6		
OWINGS FERRY LANDING	17	MAX MIN	41 20	49 25	44 25	39 27	43 19	44 36	44 31	31 20	40 29	45 27	37 30	44 34	40 33	45 19	55 29	56 36	56 37	47 28	54 26	57 37	54 34	34 16	40 10	43 28	37 19	38 12	46 18	52 35	55 26	55 36	57 36	45.8		
PATUXENT RIVER	MID	MAX MIN																																		M
TALL TIMBERS	17	MAX MIN																																		M
UPPER SOUTHERN 04																																				
ANNAPOLIS POLICE BRKS	17	MAX OBS MIN	41 18	50 20	44 21	45 23	42 16	45 30	44 25	35 16	42 21	47 22	37 20	46 29	41 27	45 15	51 23	62 33	53 37	46 23	55 24	60 31	51 27	29 9	40 8	41 24	42 15	37 9	41 19	52 32	52 22	54 31	55 29	46.0		
BALTIMORE WSO ARPT	MID	MAX MIN	41 20	53 23	42 29	40 24	41 20	44 35	40 25	32 20	42 32	46 34	40 30	41 35	41 25	45 19	55 27	56 40	49 32	45 28	55 28	56 36	46 23	26 13	40 12	43 27	31 17	40 13	47 27	55 28	52 28	56 35	53 26	44.9		
BELTSVILLE	08	MAX OBS MIN	44 19	42 21	51 22	42 26	38 19	43 21	44 32	33 17	33 17	44 30	33 28	33 28	41 32	41 20	37 25	47 29	47 38	44 25	46 22	55 32	56 38	42 15	26 9	40 21	43 17	41 12	40 17	48 25	48 24	54 27	56 36	44.0		
COLLEGE PARK	09	MAX OBS MIN OBS	44 *** 21 ***	44 *** 21 ***	53 24	45 27	39 20	41 30	45 32	39 18	41 22	45 32	32 28	40 31	41 34	39 21	45 28	59 32	52 43	48 29	48 30	56 38	58 41	43 16	27 11	34 24	44 19	34 14	42 31	48 36	56 28	57 35	57 38	44.8		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JANUARY 1991

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
DALECARLIA RESVR DC	17	MAX MIN OBS	43' 14' 25'	53' 15' 20'	46' 20' 23'	41' 17' 14'	44' 14' 25'	46' 25' 10'	45' 25' 21'	34' 10' 21'	41' 22' 32'	44' 32' 25'	43' 24' 13'	38' 20' 20'	59' 29' 26'	53' 29' 26'	48' 32' 32'	57' 32' 32'	58' 29' 28'	52' 28' 14'	48' 20' 20'	34' 6' 6'	41' 6' 20'	45' 9' 10'	41' 10' 17'	47' 17' 29'	56' 29' 20'	57' 20' 36'	57' 36' 28'	56' 28' 20'	46.8 20.7				
GLENN DALE BELL STN	16	MAX MIN	46' 15'	55' 20'	53' 24'	43' 23'	43' 15'	42' 36'	42' 30'	38' 20'	42' 24'	44' 28'	35' 28'	38' 29'	45' 15'	59' 25'	55' 32'	51' 39'	48' 24'	55' 25'	59' 34'	59' 35'	43' 14'	40' 7'	44' 25'	43' 16'	41' 8'	49' 10'	58' 36'	57' 24'	57' 32'	57' 36'	47.8 24.3		
LAUREL 3 W		MID MAX MIN																																	M M
NATIONAL ARBORETUM DC	08	MAX MIN	44' 21'	43' 22'	53' 24'	48' 29'	41' 21'	45' 24'	46' 33'	34' 20'	34' 21'	42' 32'	46' 30'	48' 30'	44' 34'	42' 22'	45' 28'	59' 30'	52' 43'	49' 32'	47' 31'	56' 33'	58' 39'	43' 18'	27' 14'	40' 21'	45' 21'	34' 15'	40' 21'	48' 27'	56' 30'	58' 37'	56' 39'	45.9 27.2	
UPPER MARLBORO 3 NNW	08	MAX MIN	45' 14'	45' 16'	52' 19'	45' 20'	41' 13'	44' 16'	45' 16'	34' 16'	33' 18'	40' 24'	45' 25'	45' 28'	33' 32'	40' 24'	45' 23'	48' 28'	57' 41'	57' 23'	49' 26'	57' 27'	58' 37'	45' 16'	23' 9'	42' 12'	45' 18'	33' 5'	40' 19'	48' 22'	57' 25'	56' 30'	57' 35'	45.4 21.7	
NORTHERN EASTERN SHORE	05																																		
CHESTERTOWN	23	MAX MIN	43' 21'	50' 25'	40' 27'	38' 24'	43' 20'	44' 34'	38' 23'	32' 16'	37' 30'	44' 28'	45' 26'	46' 36'	39' 27'	43' 21'	57' 27'	59' 33'	48' 36'	45' 30'	55' 30'	57' 38'	44' 24'	27' 14'	40' 14'	43' 30'	34' 18'	41' 14'	45' 26'	52' 28'	55' 25'	55' 33'	54' 26'	44.9 25.9	
MILLINGTON 1 SE	18	MAX OBS MIN OBS	42' 21'	51' 24'	40' 26'	38' 26'	42' 18'	43' 34'	41' 31'	41' 15'	39' 29'	45' 27'	36' 27'	47' 36'	38' 32'	42' 20'	57' 26'	60' 31'	53' 39'	45' 29'	53' 30'	58' 36'	49' 30'	38' 15'	42' 11'	42' 26'	38' 19'	45' 12'	54' 22'	52' 23'	54' 23'	55' 33'	45.5 26.0		
NORTHERN CENTRAL	06																																		
ABERDEEN PHILLIPS FLD	16	MAX OBS MIN OBS	41' 21'	48' 24'	45' 29'	39' 26'	38' 21'	42' 35'	32' 32'	37' 18'	44' 31'	41' 35'	38' 26'	38' 34'	40' 34'	50' 25'	57' 40'	52' 43'	45' 34'	51' 31'	55' 38'	51' 34'	33' 15'	37' 17'	43' 30'	41' 19'	38' 14'	44' 28'	52' 41'	50' 26'	52' 34'	50' 35'	44.1 28.7		
BALTIMORE WSO CITY	MID	MAX MIN	38' 25'	52' 27'	40' 33'	40' 26'	38' 27'	42' 37'	38' 22'	29' 17'	35' 28'	42' 35'	38' 24'	40' 34'	39' 27'	44' 25'	52' 33'	53' 39'	46' 37'	44' 34'	55' 40'	55' 40'	45' 21'	24' 15'	38' 18'	44' 27'	30' 19'	38' 19'	44' 28'	55' 37'	50' 34'	52' 39'	52' 25'	42.8 28.5	
BENSON POLICE BARRACKS	17	MAX MIN	42' 21'	54' 24'	47' 30'	40' 24'	40' 20'	44' 34'	42' 32'	34' 16'	41' 28'	47' 29'	41' 25'	41' 32'	40' 31'	44' 20'	56' 28'	55' 33'	51' 41'	44' 32'	55' 30'	58' 35'	54' 31'	34' 13'	41' 13'	42' 27'	40' 18'	40' 14'	46' 22'	57' 34'	55' 28'	51' 33'	50' 33'	46.0 26.8	
BOYDS 2 NW	18	MAX MIN																																	M M
CATOCTIN MOUNTAIN PARK	17	MAX MIN	35' 18'	37' 24'	42' 22'	35' 19'	38' 23'	40' 31'	40' 26'	33' 11'	41' 20'	38' 30'	34' 21'	36' 27'	35' 23'	36' 19'	48' 31'	42' 35'	42' 33'	34' 30'	44' 29'	45' 36'	40' 20'	39' 7'	38' 10'	38' 27'	26' 10'	32' 14'	38' 20'	42' 32'	45' 20'	48' 36'	45' 21'	38.5 23.4	
CLARKSVILLE 3 NNE	17	MAX MIN	42' 16'	52' 18'	44' 26'	40' 21'	41' 15'	45' 33'	42' 32'	32' 10'	37' 27'	43' 31'	39' 27'	39' 32'	41' 29'	42' 15'	55' 30'	50' 40'	44' 27'	57' 26'	56' 31'	51' 31'	31' 14'	40' 7'	41' 24'	37' 15'	40' 10'	41' 17'	47' 36'	55' 21'	55' 38'	54' 33'	53' 33'	45.0 24.4	
CONOWINGO DAM	MID	MAX OBS MIN OBS	50' 16'	48' 22'	47' 23'	46' 22'	40' 15'	40' 29'	43' 22'	36' 12'	43' 23'	47' 24'	41' 23'	42' 29'	40' 20'	44' 15'	51' 20'	57' 28'	47' 27'	46' 23'	56' 24'	58' 29'	44' 19'	24' 10'	40' 7'	45' 23'	36' 14'	40' 9'	48' 17'	54' 26'	53' 21'	50' 27'	50' 23'	45.4 20.7	
DAMASCUS 2 SW	19	MAX MIN	38' 21'	47' 23'	40' 33'	35' 23'	39' 33'	45' 33'	40' 27'	27' 13'	35' 26'	41' 30'	36' 26'	35' 30'	37' 27'	40' 20'	52' 33'	45' 37'	45' 38'	42' 34'	52' 32'	52' 35'	44' 25'	37' 11'	39' 29'	33' 13'	38' 16'	43' 24'	51' 35'	52' 34'	53' 38'	51' 25'	41.6 26.6		
EMMITSBURG 2 SE	17	MAX MIN	36' 17'	47' 17'	42' 23'	37' 16'	39' 33'	39' 30'	40' 11'	38' 24'	30' 11'	37' 23'	35' 26'	39' 31'	37' 29'	44' 14'	48' 22'	47' 42'	42' 34'	47' 36'	52' 30'	53' 30'	48' 26'	30' 12'	35' 10'	40' 32'	36' 14'	36' 10'	44' 17'	50' 32'	51' 22'	49' 29'	48' 28'	41.3 23.5	
FREDERICK POLICE BRKS	17	MAX OBS MIN OBS	38' 19'	47' 20'	47' 27'	46' 25'	47' 20'	47' 34'	47' 32'	33' 16'	36' 22'	44' 32'	42' 26'	36' 25'	42' 32'	40' 21'	48' 35'	48' 35'																	M
MILLERS 4 NE	18	MAX MIN	37' 16'	46' 21'	39' 28'	35' 21'	38' 18'	42' 32'	38' 27'	27' 12'	34' 25'	40' 29'	35' 24'	38' 32'	39' 28'	55' 30'	48' 35'	44' 32'	39' 29'	51' 29'	52' 35'	45' 24'	24' 11'	35' 10'	38' 29'	33' 13'	36' 11'	43' 21'	51' 34'	47' 27'	50' 35'	47' 26'	40.8 24.8		
ROCKVILLE 1 NE	MID	MAX MIN	40' 21'	49' 21'	43' 31'	37' 23'	41' 19'	46' 35'	39' 22'	31' 17'	39' 30'	41' 35'	36' 29'	40' 32'	38' 26'	43' 21'	55' 29'	49' 42'	46' 34'	43' 34'	54' 32'	55' 36'	43' 21'	24' 14'	39' 12'	41' 27'	30' 17'	40' 13'	45' 25'	52' 28'	55' 29'	56' 39'	51' 21'	43.3 26.3	
TOWSON	18	MAX MIN																																	M M

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JANUARY 1991

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
UNIONVILLE	17	MAX MIN	39 15	47 15	40 22	39 19	40 15	42 33	40 29	29 13	35 24	41 25	34 25	35 31	39 28	39 12	53 24	42 32	43 33	43 32	51 26	54 30	46 26	30 11	36 8	41 21	36 11	38 8	43 17	53 35	52 20	51 31	47 28	41.9 22.5		
WESTMINSTER POLICE BRK	17	MAX MIN	43 15	45 20	46 31	39 23	40 21	44 33	40 30	33 14	35 21	40 31	39 24	37 28	40 30	39 20	56 31	46 30	46 30	42 29	50 33	51 41	50 30	31 12	41 20	41 29	45 15	45 15	42 23	49 34	49 31	51 36	50 27	43.4 26.0		
WOODSTOCK	18	MAX MIN	41 17	51 18	41 26	40 24	40 17	43 32	42 31	32 14	39 26	44 31	39 25	38 32	39 30	44 16	53 26	49 36	46 40	44 31	56 29	55 33	47 27	28 12	39 9	41 28	37 15	40 10	47 22	55 35	52 25	53 32	50 29	44.0 25.1		
APPALACHIAN MOUNTAIN	07																																			
CUMBERLAND 2	18	MAX MIN OBS	40 17	46 18	43 22	40 18	42 20	41 32	40 28	30 16	39 24	43 28	37 27	40 27	39 22	50 22	57 29	46 36	46 35	41 31	51 32	45 33	42 13	24 8	40 8	38 13	31 12	33 15	43 19	52 24	51 21	45 29	44 17	41.9 22.5		
FROSTBURG 2	07	MAX MIN	30 16	31 17	44 24	33 17	30 16	45 21	42 28	28 13	24 12	38 24	36 25	29 23	40 20	25 18	45 19	49 35	44 32	33 28	32 25	44 28	39 28	28 7	13 3	33 4	29 5	21 4	28 11	39 13	41 27	44 26	49 24	35.0 19.1		
HAGERSTOWN	08	MAX MIN	39 18	35 20	47 18	39 21	37 20	43 25	43 32	33 12	27 12	36 25	41 26	32 24	38 27	34 19	40 23	40 30	44 34	43 36	45 30	53 34	54 32	34 11	24 11	39 15	41 14	35 12	37 21	45 30	50 28	52 28	46 32	40.5 23.2		
HANCOCK	08	MAX MIN	39 11	40 11	49 15	40 18	40 13	39 14	39 32	35 10	36 13	40 33	45 25	35 25	40 29	36 15	45 19	55 28	46 32	45 35	43 33	53 28	52 29	36 9	25 6	43 10	42 11	32 7	35 13	35 17	53 21	55 24	45 31	42.1 19.9		
ALLEGHENY PLATEAU	08																																			
MC HENRY 2 NW	08	MAX MIN	27 15	35 18	40 26	28 15	27 15	42 25	38 28	30 12	30 12	37 26	33 25	41 23	40 17	30 16	43 24	49 33	52 25	30 25	30 22	41 25	36 21	22 3	17 2	31 13	28 0	20 0	28 10	36 14	37 25	46 28	49 19	34.6 18.3		
OAKLAND 1 SE	17	MAX MIN OBS	39 13	40 15	39 26	29 17	42 13	45 37	39 26	26 14	37 22	37 28	36 25	40 27	35 18	44 16	51 24	54 37	43 29	32 25	42 26	42 30	34 15	16 4	30 12	31 24	25 -7	27 -4	40 12	41 28	48 12	48 28	43 20	37.9 19.0		
SAVAGE RIVER DAM	08	MAX MIN	33 18	32 17	45 18	34 22	33 16	49 19	43 31	33 17	26 16	41 24	39 27	33 26	41 23	29 20	47 21	48 29	46 34	38 32	36 29	46 29	42 26	29 10	18 2	37 2	33 4	24 3	33 8	40 11	41 21	45 20	45 25	37.4 19.4		
DELAWARE																																				
NORTHERN	01																																			
NEWARK UNIVERSITY FARM	17	MAX MIN	41 20	49 22	45 28	38 25	39 18	43 33	43 29	36 11	39 28	44 30	40 24	42 29	38 32	43 19	52 25	54 30	53 41	43 30	52 28	56 35	53 28	29 13	39 10	42 27	39 19	40 11	45 22	52 33	51 24	54 32	52 32	44.7 25.4		
WILMINGTON WSO ARPT	MID	MAX MIN	41 22	50 23	43 28	37 23	39 19	45 34	40 22	32 19	38 31	45 31	41 26	42 37	38 25	42 20	51 25	55 37	48 32	41 31	50 31	55 36	44 20	22 13	38 14	43 24	28 17	38 15	44 25	53 28	50 24	52 34	51 24	43.1 25.5		
WILMINGTON PORTER RSVR	MID	MAX MIN	39 22	48 28	41 32	34 25	38 23	45 35	39 23	30 17	36 30	43 32	40 26	41 35	39 24	40 22	50 30	55 37	47 34	40 32	50 30	53 38	43 20	21 13	37 14	41 26	27 18	36 15	43 25	50 31	49 28	50 36	50 23	41.8 26.6		
SOUTHERN	02																																			
DOVER	17	MAX MIN OBS	47 33	52 31	47 27	41 26	43 26	47 34	44 31	37 21	38 33	44 29	47 28	56 35	51 32	45 19	62 30	58 28	58 30	48 30	54 31	57 39	49 26	26 15	41 11	44 28	41 22	36 21	44 29	55 31	51 29	51 39	50 30	47.2 28.8		
GEORGETOWN 5 SW	08	MAX MIN	46 22	46 34	41 25	47 27	41 19	45 37	49 30	38 22	40 32	45 31	44 29	57 38	50 31	36 19	45 25	58 32	61 42	50 28	48 29	52 35	57 36	44 17	25 9	40 15	46 24	42 14	42 16	50 20	54 24	55 29	59 40	46.9 26.5		
GREENWOOD 2 NE	18	MAX MIN	43 22	48 31	44 27	37 27	45 19	45 37	41 30	32 22	41 32	43 29	50 31	56 38	40 31	42 19	56 28	60 40	49 29	49 30	53 28	56 39	44 27	27 16	38 10	42 28	37 20	39 11	45 18	52 35	55 25	55 35	53 33	45.8 27.7		
LEWES	17	MAX MIN	45 31	44 39	44 31	40 33	44 24	44 39	42 33	41 29	43 37	42 32	44 36	57 41	41 34	46 24	54 32	59 45	59 32	46 37	54 33	54 41	53 33	33 18	41 15	44 31	41 24	41 17	44 24	51 43	52 27	59 41	59 36	47.1 32.0		
MILFORD 4 SE	17	MAX MIN	44 25	46 34	44 28	38 28	45 20	44 31	42 31	36 27	40 34	46 29	41 31	57 40	42 32	44 21	54 31	62 35	60 44	46 29	55 29	58 40	49 29	29 17	39 12	43 30	40 20	41 13	46 19	60 34	51 23	57 36	57 34	47.0 28.6		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND
DELAWARE
JANUARY 1991

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																																
SOUTHERN EASTERN SHORE 01																																
ASSATEAGUE IS NATL SEA																																
SALISBURY FAA ARPT																																
SNOW HILL 4 N																																
CENTRAL EASTERN SHORE 02																																
CAMBRIDGE WATER TRMT P																																
ROYAL OAK 2 SSW																																
LOWER SOUTHERN 03																																
LA PLATA 1 W																																
MECHANICSVILLE 5 NE																																
OWINGS FERRY LANDING																																
UPPER SOUTHERN 04																																
ANNAPOLIS POLICE BRKS																																
BALTIMORE WSO ARPT																																
BELTSVILLE																																
COLLEGE PARK																																
GLENN DALE BELL STN																																
NATIONAL ARBORETUM DC																																
UPPER MARLBORO 3 NNW																																
NORTHERN EASTERN SHORE 05																																
CHESTERTOWN																																
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD																																

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
JANUARY 1991

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				
BENSON POLICE BARRACKS							4.0	T			1.5																								
							4	3	3		2																								
CATOCTIN MOUNTAIN PARK							5.5				4.0																								
							6	4	2	1	4	3	2	2	1																				
CLARKSVILLE 3 NNE							5.0	T		.2	2.1																								
							5	5	3	2	3	2	1	1																					
DAMASCUS 2 SW					T		7.0				3.0											T													
							7	6	5	3	5	4	4	4	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T				
EMMITSBURG 2 SE							4.0				5.0																								
							2	2	-	2	4	4	4	4	3	2																			
FREDERICK POLICE BRKS							4.0				4.0																								
							4	4	3	2	6	3	2	1	1																				
MILLERS 4 NE							4.7	T	.1		2.9																								
							5	4	3	2	4	3	3	3	2	T			T			.1													
ROCKVILLE 1 NE							4.5	T			3.7																								
							4	4	2	T	3	1																							
WESTMINSTER POLICE BRK							6.0		1.0		2.0																								
							6	4	5	5	7	3	1	1	1																				
WOODSTOCK							6.0				3.0																								
							4	4	3	2	2	1	1																						
APPALACHIAN MOUNTAIN 07																																			
CUMBERLAND 2							4.0	1.0			6.0	1.0																							
							5	4	4	2	7	8	6	6	5	3	2	1	1																
FROSTBURG 2							5.0	2.5	.2	T	7.0	4.5	T	.4																					
	T	T	T	T	T	T	5	7	7	6	12	15	12	12	10	8	6	6	.1																
HAGERSTOWN							2.0	1.0			1.0																								
							2	3	3	2	3	3	3	3	2	2	T																		
HANCOCK							1.5				4.5																								
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ALLEGHENY PLATEAU 08																																			
MC HENRY 2 NW							6.0	1.5	T	T	5.0																								
	1.0				T		5	7	7	6	8	6	6	6	3	4	5	.5																	
MERRILL							7.4				6.2	3.0																							
	-	-	-	-	-	-	7	7	5	4	10	12	10	8	6	5	4	3	3	2															
OAKLAND 1 SE							7.1	T			4.0																								
							7	7	4	T	4	3	1.0	3	2	-	1.5	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAVAGE RIVER DAM							5.0																												
							5	4	3	2	5	5	4	4	3	3	3	2	T	T	4	4	4	4	4	4	3	3	3	2	1	1	T		
DELAWARE																																			
NORTHERN 01																																			
NEWARK UNIVERSITY FARM							6.0				1.0																								
							6	4	3		1																								
WILMINGTON WSO ARPT							4.0	T			1.2																								
							1	3	3	T																									
							.5	.2	.4																										

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
JANUARY 1991

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									
WILMINGTON PORTER RSVR							5.0	-																																
SNOWFALL							5	2	1	-	2																													
SN ON GND																																								
SOUTHERN 02							4.5																																	
DOVER							5	4																																
SNOWFALL																																								
SN ON GND							1.0																																	
GEORGETOWN 5 SW																																								
SNOWFALL							2.6																																	
SN ON GND							2	2	T																															
GREENWOOD 2 NE																																								
SNOWFALL							1.8																																	
SN ON GND							2	2	-																															
MILFORD 4 SE																																								
SNOWFALL																																								
SN ON GND																																								

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

STATION INDEX

MARYLAND AND
DELAWARE
JANUARY 1991

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER			
							LOCAL STD TIME							
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)				
MARYLAND														
ABERDEEN PHILLIPS FLD	0015	06	HARFORD	39 28	76 10W	57	16	16		C	H	ROSS AVIATION INC		
ANNAPOLIS POLICE BRKS	0193	04	ANNE ARUNDEL	38 59	76 30W	30	17	17			H	ANNAPOLIS POLICE BRKS		
ASSATEAGUE IS NATL SEA	0335	01	WORCESTER	38 14	75 8W	7	17	07			H	NATIONAL PARK SERVICE		
BALTIMORE WSO ARPT	0465	04	ANNE ARUNDEL	39 11	76 40W	148	MID	MID		C	C	NATL WEATHER SERVICE		
BALTIMORE WSO CITY #	0470	04	BALTIMORE CI	39 17	76 37W	14	MID	MID			H	OCEMI COMMANDING OFFICER		
BELTSVILLE	0700	06	PRINCE GEORG	39 2	76 53W	120	08	08		O	B	C	C	CS DEPT OF AGRICULTURE
BENSON POLICE BARRACKS	0732	06	HARFORD	39 30	76 23W	365	17	17			H	H	MARYLAND STATE POLICE	
BOYDS 2 NW	1032	06	MONTGOMERY	39 13	77 20W	581	18	18			H	H	HUNTER F STALEY	
BRIGHTON DAM	1125	06	MONTGOMERY	39 12	77 1W	331		MID					WASH SUB SANY COMM	
CAMBRIDGE WATER TRMT P	1385	06	DORCHESTER	38 34	76 4W	10	16	16			H	H	WASTEWATER TRMT PLANT	
CATOCTIN MOUNTAIN PARK	1530	06	FREDERICK	39 39	77 29W	1610	17	17		C	H	H	CATOCTIN MOUNTAIN PARK	
CHESTERTOWN	1750	06	KENT	39 13	76 4W	39	23	23			H	H	THOMAS W ELIASON JR	
CLARKSVILLE 3 NNE	1862	06	HOWARD	39 15	76 56W	365	17	17			H	H	UNIVERSITY OF MARYLAND	
COLLEGE PARK	1995	06	PRINCE GEORG	38 59	76 57W	90	09	09		C	H	H	UNIVERSITY OF MARYLAND	
CONOWINGO DAM	2060	06	HARFORD	39 39	76 10W	39	MID	MID					SUSQUEHANNA ELECTRIC CO	
CRISFIELD SOMERS COVE	2215	01	SOMERSET	37 59	75 52W	8	17	17					SOMERS COVE MARINA	
CUMBERLAND 2	2282	07	ALLEGANY	39 38	78 45W	730	18	07			H		TIMOTHY B THOMAS	
DALECARLIA RESVR DC	2325	04	DIS COLUMBIA	38 56	77 7W	151	17	17					U S CORPS OF ENGINEERS	
DAMASCUS 2 SW	2335	06	MONTGOMERY	39 16	77 14W	722	19	19			H	H	RICHARD W SCHWERDT	
DENTON 2 E	2523	06	CAROLINE	38 53	75 48W	49	17	17			H		INACTIVE 04/01/90	
EDGE MONT	2770	07	WASHINGTON	39 40	77 33W	905		07					JOHN W HARNE	
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 18W	420	17	17			H	H	MRS LUCILLE K BEALE	
FREDERICK POLICE BRKS	3348	06	FREDERICK	39 25	77 26W	381	17	17			H	H	MARYLAND STATE POLICE	
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2172	07	07			H	H	LEE K CLOSE	
GLENN DALE BELL STN	3675	04	PRINCE GEORG	38 58	76 48W	151	16	16			H	H	USDA PLT INTRODUCT STN	
HAGERSTOWN	3975	07	WASHINGTON	39 39	77 44W	659	08	08			H	H	HAGERSTOWN RESERVOIR	
HANCOCK	4030	07	WASHINGTON	39 42	78 11W	428	08	08		C	H	H	TOWN OF HANCOCK	
LA PLATA 1 W	5080	09	CHARLES	38 32	77 0W	140	18	18			H	H	C RUSSELL LEVERING	
LAUREL 3 W	5111	04	PRINCE GEORG	39 6	76 54W	400	MID	MID					WASH SUB SANY COMM	
MC HENRY 2 NW	5832	08	GARRETT	39 35	79 22W	2680	08	08		C	H	H	JOSEPH F JOHENNING	
MECHANICSVILLE 5 NE	5865	03	ST MARYS	38 27	76 41W	100	19	19			H	H	SANDRA J HASTINGS	
MERRILL	5894	08	GARRETT	39 36	79 5W	1791		09			H	H	DELWOOD E MERRILL	
MILLERS 4 NE	5934	06	CARROLL	39 43	76 48W	860	18	18		C	H	H	ROBERT P MILLER	
MILLINGTON 1 SE	5985	05	KENT	39 16	75 52W	30	18	18					HOWARD L HARVEY	
NATIONAL ARBORETUM DC	6350	04	DIS COLUMBIA	38 54	76 59W	49	08	08			H		U S NATL ARBORETUM	
OAKLAND 1 SE	6620	09	GARRETT	39 24	79 24W	2421	17	17			H	H	BEA J CROSCO	
OWINGS FERRY LANDING	6770	03	CALVERT	38 41	76 40W	160	17	17			H	H	JAMES C RASMUSSEN	
PATUXENT RIVER	6915	03	ST MARYS	38 20	76 25W	38	MID	MID		C	H	H	NAVAL WEATHER SERVICE	
POTOMAC FILTER PLANT	7272	06	MONTGOMERY	39 2	77 15W	269		08					POTOMAC WATER FILT PLT	
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	17	17					UNIV OF MD EASTERN SHORE	
ROCKVILLE 1 NE	7705	06	MONTGOMERY	39 6	77 6W	440	MID	17			H	H	WASHINGTON GAS AND LIGHT	
ROYAL OAK 2 SSW	7806	02	TALBOT	38 43	76 11W	10	18	18			H	H	JOHN L SWAINE JR	
SALISBURY	8000	01	WICOMICO	38 22	75 35W	10	17	17					CITY OF SALISBURY	
SALISBURY FAA ARPT #	8005	01	WICOMICO	38 20	75 31W	48	MID	MID			H	H	FAA	
SAVAGE RIVER DAM	8065	09	GARRETT	39 31	79 8W	1495	08	08		O	B	C	H	US CORPS OF ENGINEERS
SNOW HILL 4 N	8380	01	WORCESTER	38 14	75 23W	30	18	18			H	H	CURTIS E SHOCKLEY	
TALL TIMBERS	8757	03	ST MARYS	38 10	76 33W	12	17	17			H	H	RICHARD A EVERETT	
TOWSON	8877	06	BALTIMORE	39 23	76 34W	390	18	18					BENDIX FRIEZ	
UNIONVILLE	9030	06	FREDERICK	39 27	77 11W	430	17	07		C			RICHARD GETZANOANNER	
UPPER MARLBORO 3 NNW	9070	04	PRINCE GEORG	38 52	76 47W	98	08	08		O	B	H	UNIVERSITY OF MARYLAND	
VIENNA	9140	02	DORCHESTER	38 29	75 50W	10	18	18					DELMARVA POWER & LIGHT	
WESTMINSTER POLICE BRK	9440	06	CARROLL	39 33	76 58W	765	17	17			H	H	MARYLAND STATE POLICE	
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52W	459	18	18			H	H	JOHN A HILTZ	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
JANUARY 1991

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER
							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
DELAWARE											
DOVER	27300	002	KENT	39 9	75 31W	30	17	17		H	STATE DIV OF HIGHWAYS
GEORGETOWN 5 SW	35700	002	SUSSEX	38 38	75 27W	45	08	08	0	BC	UNIV OF DEL SUBSTATION
GREENWOOD 2 NE	35955	002	SUSSEX	38 50	75 35W	45	18	18		H	DANIEL M SWARTZENTRUBER
LEWES	53200	002	SUSSEX	38 46	75 8W	15	17	17			BOARD OF PUBLIC WORKS
MILFORD 4 SE	59150	002	SUSSEX	38 54	75 28W	30	17	17		H	DAVID S SCHLOTT
NEWARK UNIVERSITY FARM	64100	01	NEW CASTLE	39 40	75 44W	90	17	17	1	C	UNIV OF DEL AGRIC FARM
WILMINGTON WSO ARPT	95955	01	NEW CASTLE	39 40	75 36W	79	M	M		C	NATL WEATHER SERVICE
WILMINGTON PORTER RSVR	96050	01	NEW CASTLE	39 46	75 32W	274	M	M		H	WATER DEPARTMENT

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

MARYLAND AND
DELAWARE
JANUARY 1991

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.

I 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. JANUARY 1991-0585

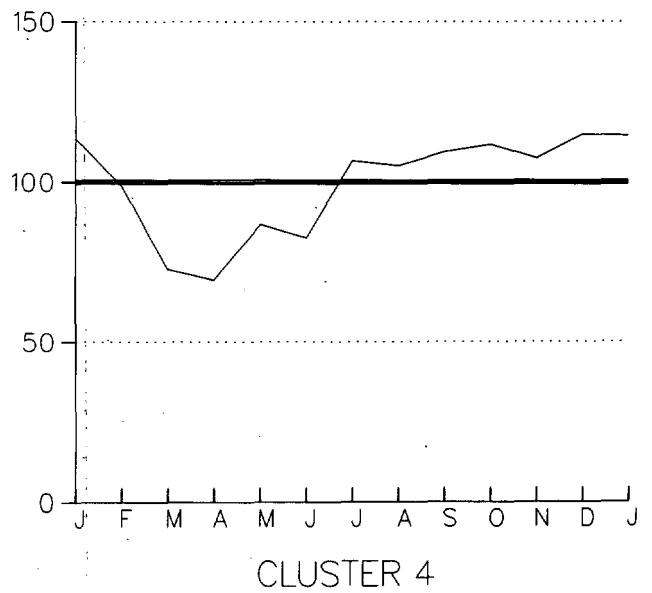
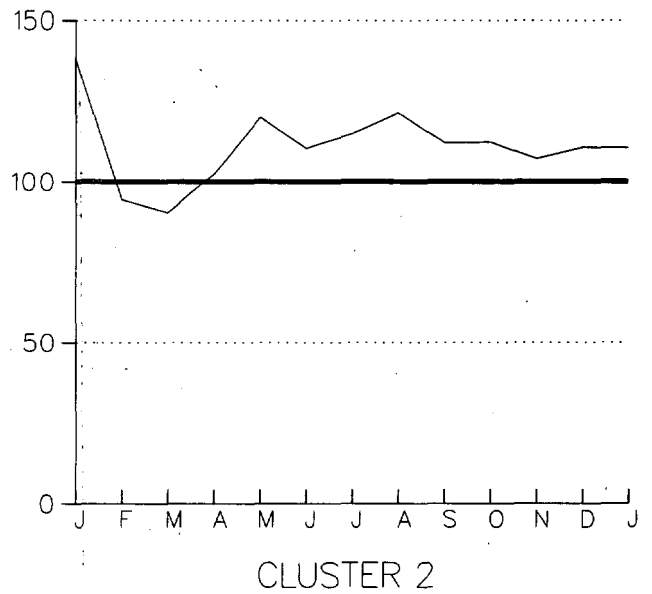
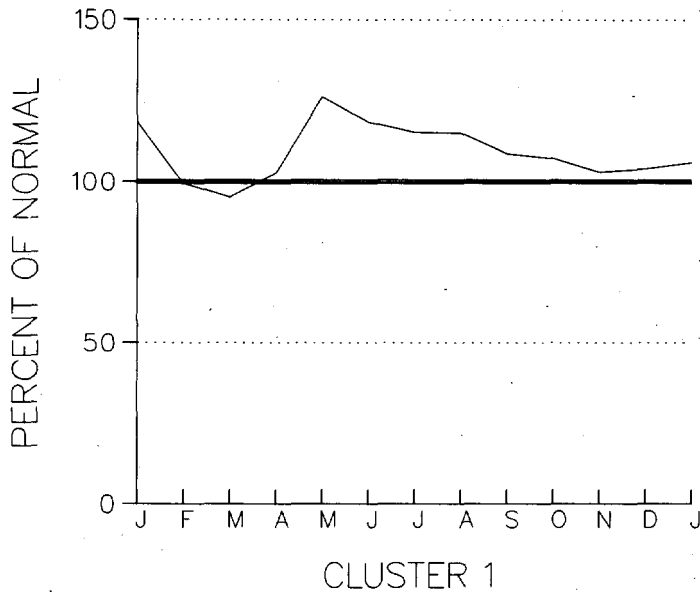
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE LAST 13 MONTHS
ENDING JANUARY 1991
MARYLAND

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

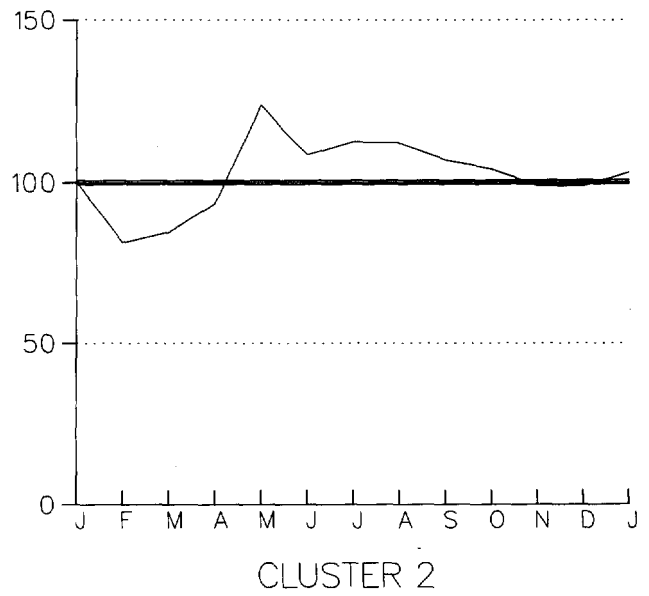
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
 FOR THE LAST 13 MONTHS
 ENDING JANUARY 1991
 DELAWARE

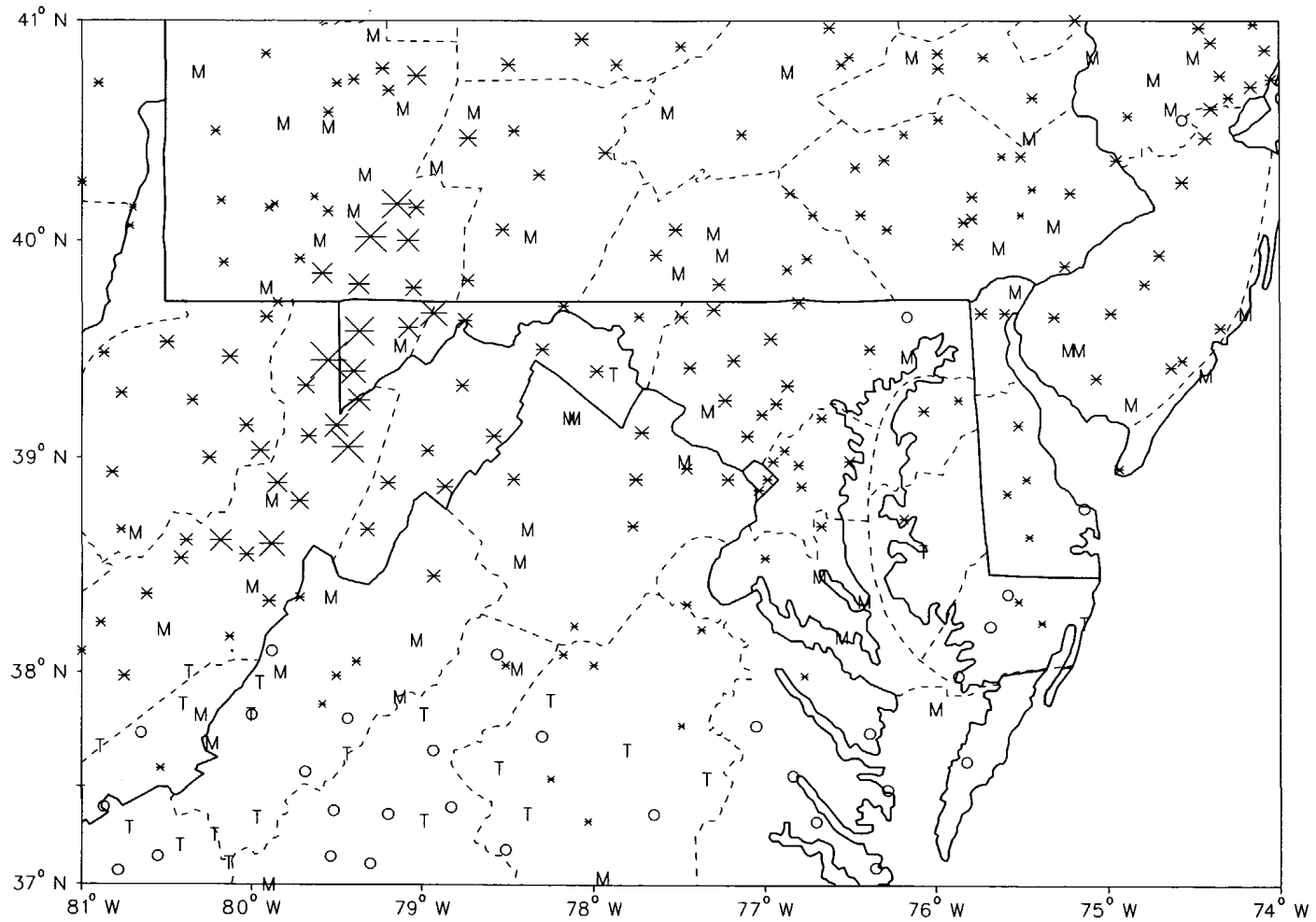
CLUSTER 1 -DIVISION(S):
 NORTHERN 01

CLUSTER 2 -DIVISION(S):
 SOUTHERN 02



TOTAL MONTHLY SNOWFALL
MARYLAND & DELAWARE
JANUARY 1991

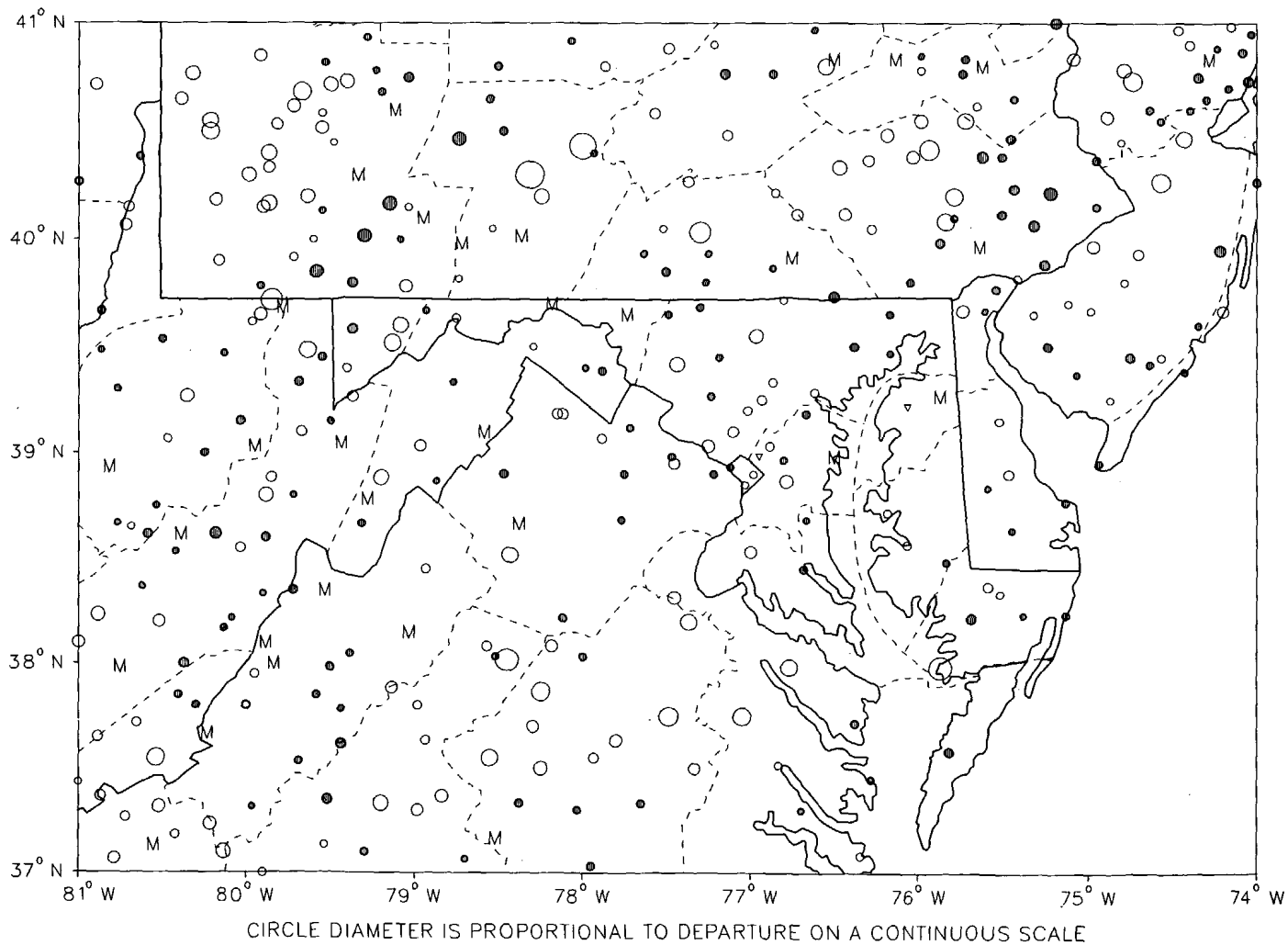
- T TRACE SNOWFALL FOR THE MONTH
- o ZERO SNOWFALL FOR THE MONTH
- M INCOMPLETE DATA FOR THE MONTH
- ***X 5,10,20,...50 INCHES OR MORE TOTAL SNOWFALL



SYMBOL SIZE IS PROPORTIONAL TO TOTAL SNOWFALL ON A CONTINUOUS SCALE

MONTHLY PRECIPITATION DEPARTURE FROM
 THE DIVISIONAL AVERAGE FOR
 JANUARY 1991
 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



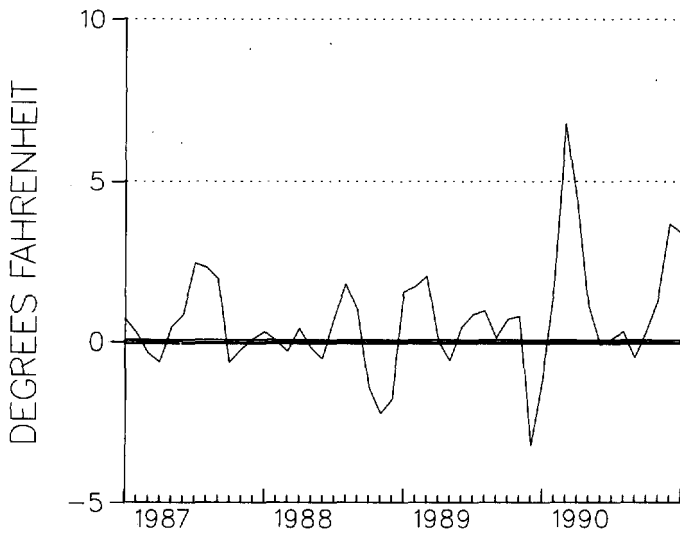
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)
 THREE MONTH RUNNING MEAN
 FOR THE 49 MONTHS ENDING WITH JANUARY 1991 DATA
 MARYLAND

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

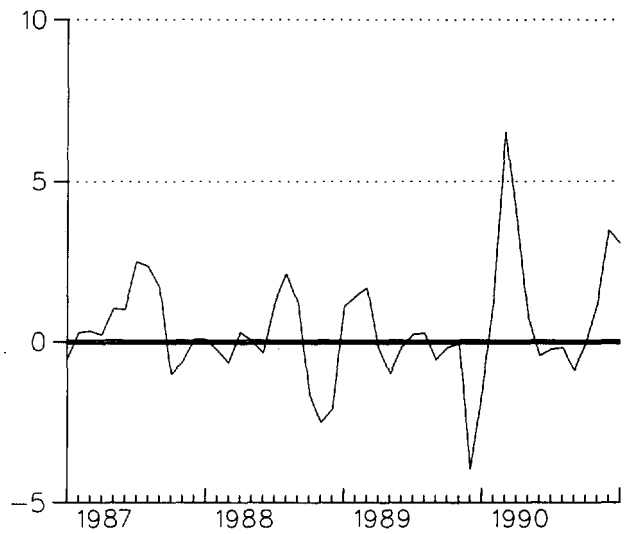
CLUSTER 2 - DIVISION(S):
 UPPER SOUTHERN 04
 NORTHERN EASTERN SHORE 05

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

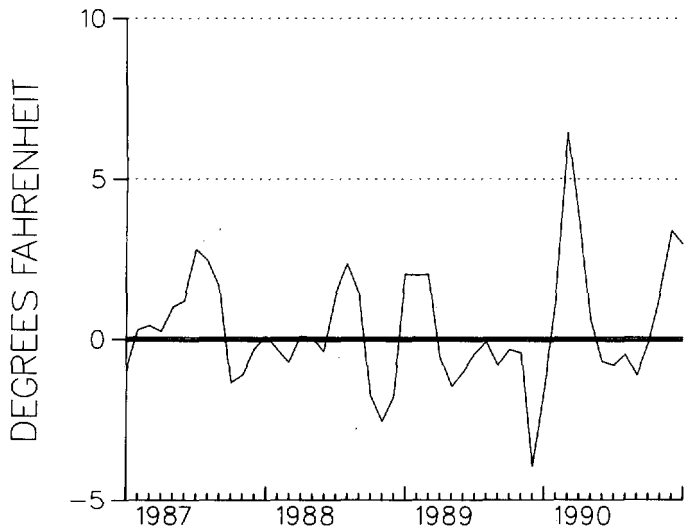
CLUSTER 4 - DIVISION(S):
 ALLEGHENY PLATEAU 08



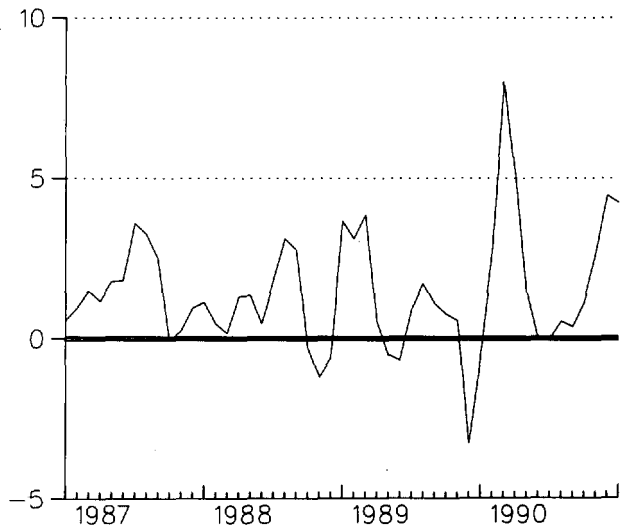
CLUSTER 1



CLUSTER 2



CLUSTER 3

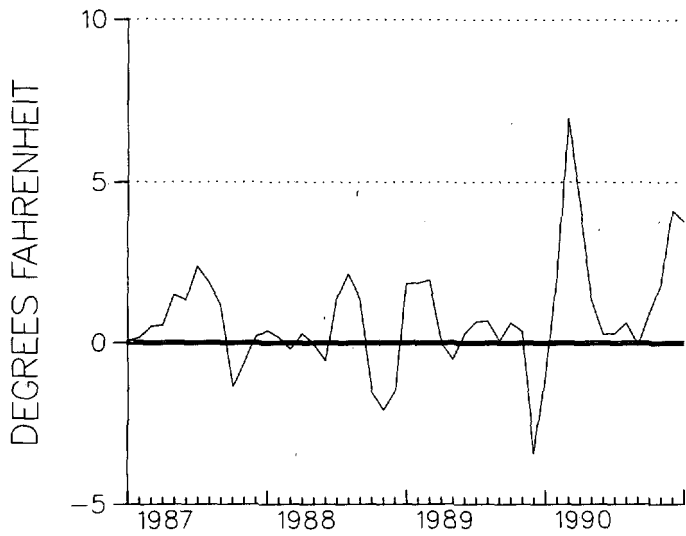


CLUSTER 4

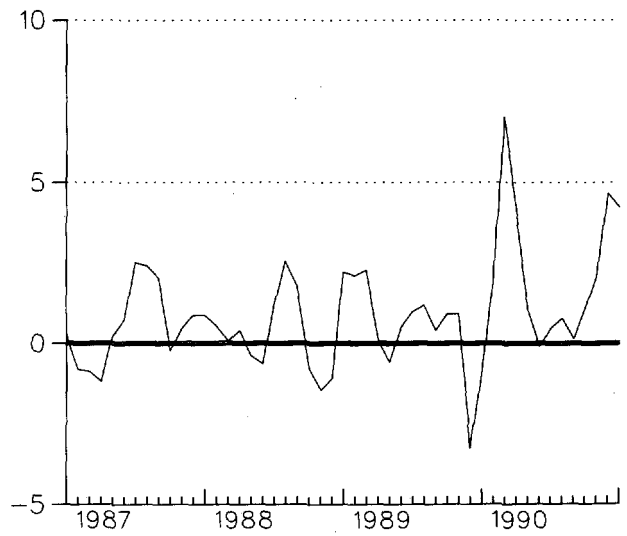
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)
THREE MONTH RUNNING MEAN
FOR THE 49 MONTHS ENDING WITH JANUARY 1991 DATA
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



CLUSTER 1

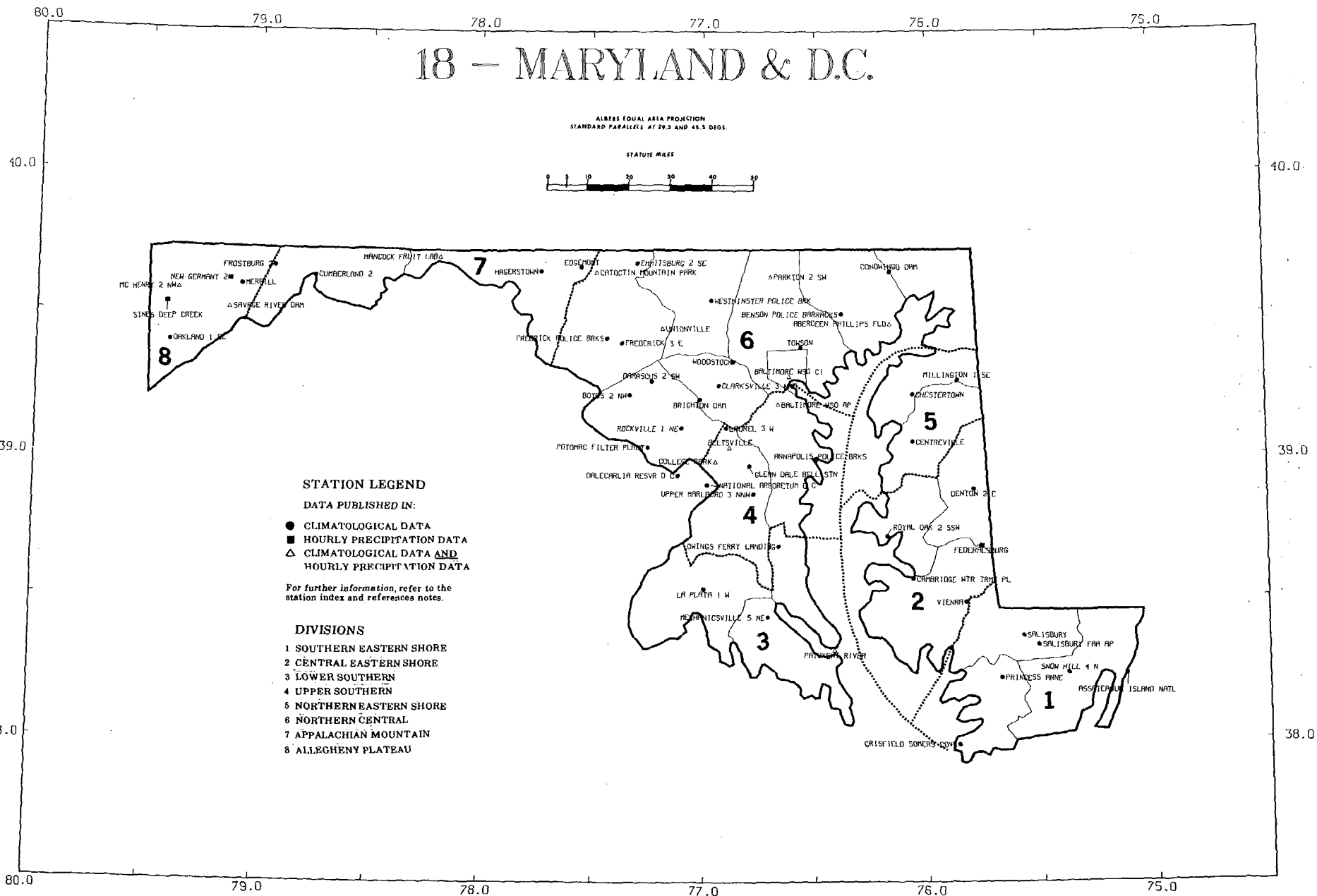
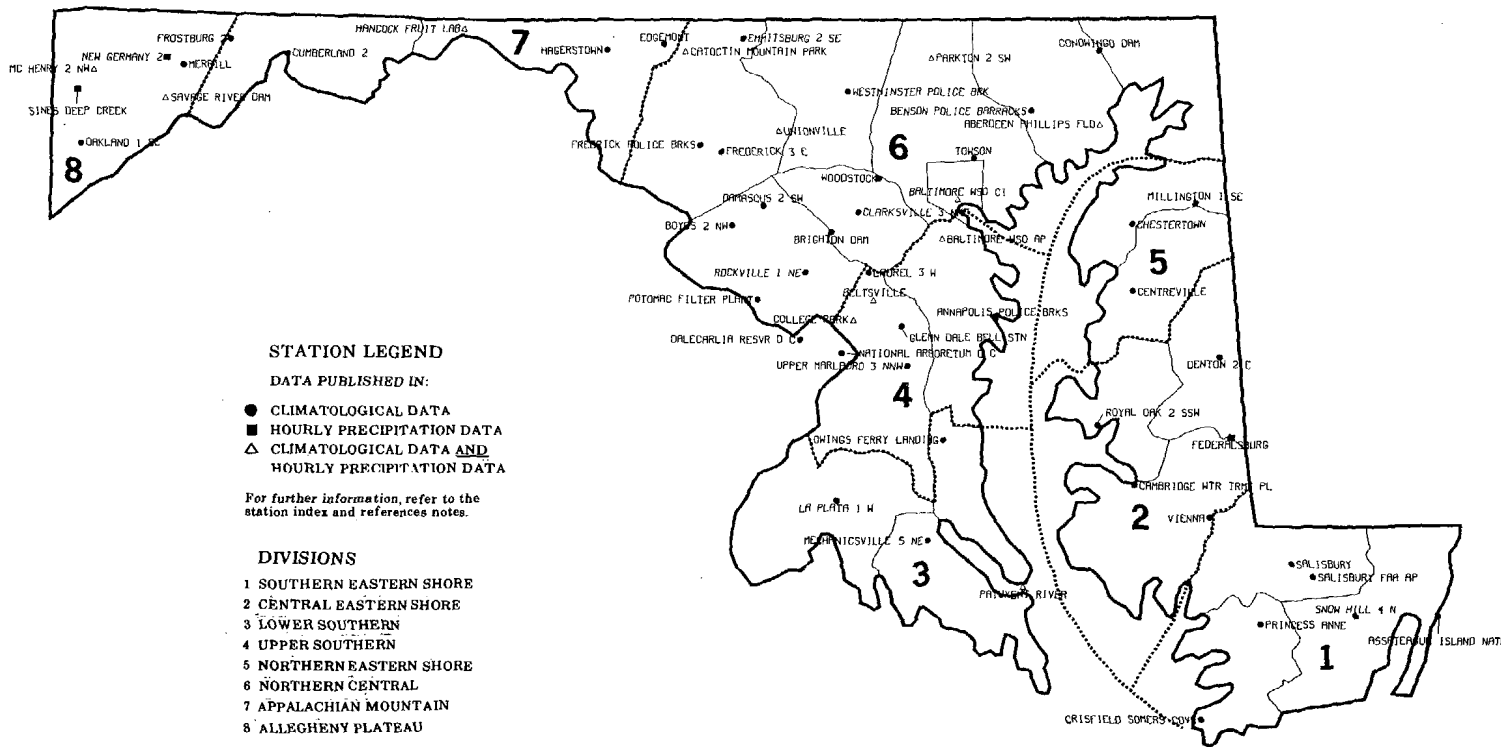


CLUSTER 2

18 - MARYLAND & D.C.

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

STATUTE MILES



40.0 76.0

75.0

40.0

07 - DELAWARE

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

STATUTE MILES



STATION LEGEND

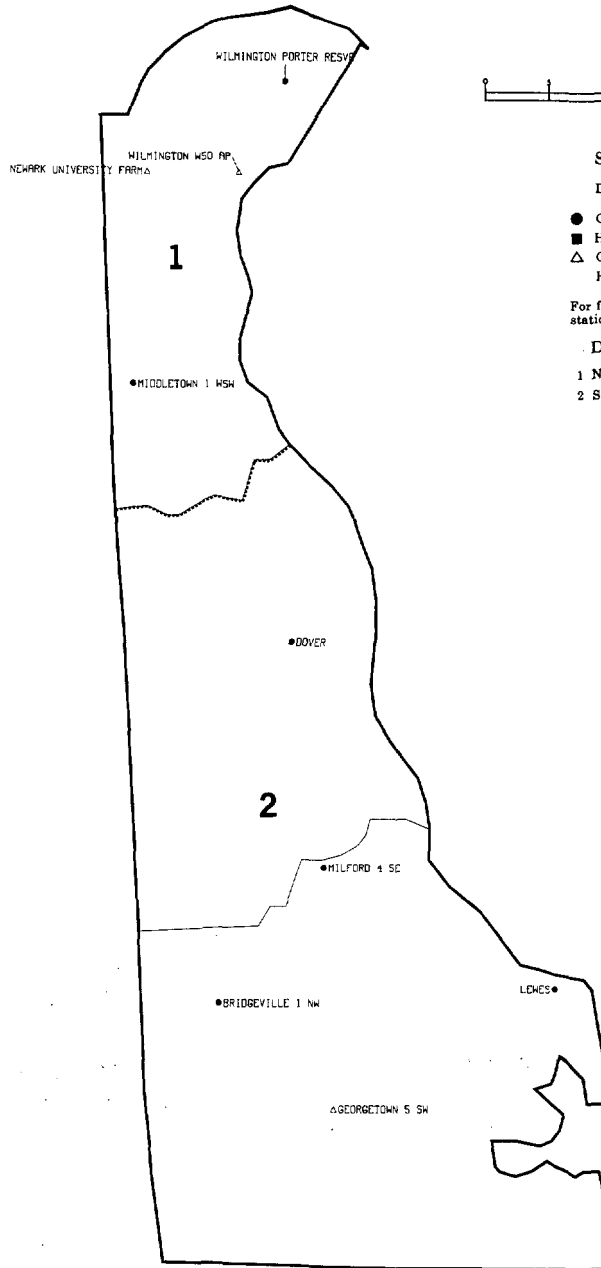
DATA PUBLISHED IN:

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

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

DIVISIONS

- 1 NORTHERN
- 2 SOUTHERN



39.0

39.0

38.0 76.0

75.0

38.0

CD
VALIDATED BY:

Charles Aiken
Ted Burlew
Charles Chillag
Betty Edstrom
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