



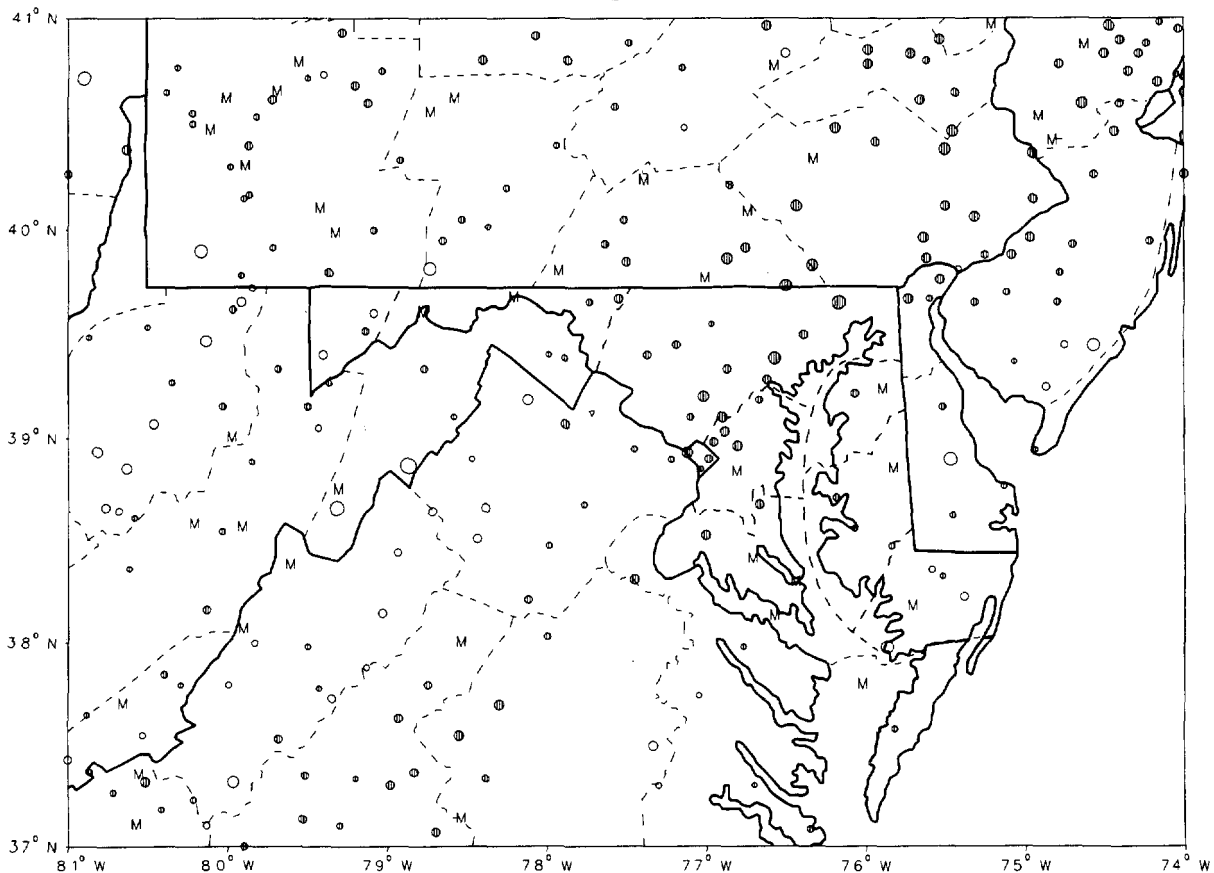
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# CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

## JANUARY 1990 VOLUME 94 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

"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). IT IS COMPILED USING INFORMATION FROM WEATHER OBSERVING SITES SUPERVISED BY NOAA/NATIONAL WEATHER SERVICE AND RECEIVED AT THE NATIONAL CLIMATIC DATA CENTER (NCDC), ASHEVILLE, NORTH CAROLINA 28801."

*Kenneth D. Halpern*

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

# noaa

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ASHEVILLE NORTH CAROLINA

# TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND AND  
DELAWARE  
JANUARY 1990

MARYLAND  
 HIGHEST TEMPERATURE 73  
 LOWEST TEMPERATURE 10  
 GREATEST TOTAL PRECIPITATION 6.72  
 LEAST TOTAL PRECIPITATION 2.52  
 GREATEST 1 DAY PRECIPITATION 1.63  
 GREATEST TOTAL SNOWFALL 25.5  
 GREATEST DEPTH OF SNOW OR ICE 15

JANUARY 18  
 JANUARY 14  
  
 JANUARY 30  
 JANUARY 2

ANNAPOLIS POLICE BRKS  
 OAKLAND 1 SE  
 CONOWINGO DAM  
 CRISFIELD SOMERS COVE  
 HAGERSTOWN  
 MC HENRY 2 NW  
 FROSTBURG 2

DELAWARE  
 HIGHEST TEMPERATURE 67  
 LOWEST TEMPERATURE 21  
 GREATEST TOTAL PRECIPITATION 4.85  
 LEAST TOTAL PRECIPITATION 2.57  
 GREATEST 1 DAY PRECIPITATION 1.50  
 GREATEST TOTAL SNOWFALL 1.5  
 GREATEST DEPTH OF SNOW OR ICE 1

JANUARY 18+  
 JANUARY 14  
  
 JANUARY 25  
 JANUARY 8

2 STATIONS  
 2 STATIONS  
 WILMINGTON PORTER RSVR  
 MILFORD 4 SE  
 WILMINGTON PORTER RSVR  
 WILMINGTON WSO ARPT  
 WILMINGTON PORTER RSVR R

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND  
DELAWARE  
JANUARY 1990

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 M	0 OR BELOW N					TOTAL	MAX. DEPTH ON GROUND	DATE
MARYLAND																					
SOUTHERN EASTERN SHORE 01																					
ASSATEAGUE IS NATL SEA	51.1	32.0	41.6		62	18	22	21	720	0	0	0	17	0	4.40						
CRISFIELD SOMERS COVE	50.4	36.3	43.4	6.6	63	25	25	14	666	0	0	0	9	0	2.52	-.71	.74	8			
PRINCESS ANNE																					
SALISBURY	55.2	34.1	44.7	8.0	70	25	21	14	625	0	0	0	14	0	3.38	-.14	.64	8			
SALISBURY FAA ARPT	54.1	33.6	43.4	8.3	69	25	19	14	625	0	0	0	15	0	3.60	-.22	.77	8			
SNOW HILL 4 N	54.5	33.4	44.0	8.0	66	17	18	14	644	0	0	0	15	0	3.31	-.32	.72	8			
--DIVISIONAL DATA-->			43.4	7.4											3.44	.02					
CENTRAL EASTERN SHORE 02																					
CAMBRIDGE WATER TRMT P	53.4	33.6	43.5	8.8	69	18	20	14	661	0	0	0	13	0	3.86	.37	.94	26			
DENTON 2 E																					
ROYAL OAK 2 SSW	51.1	34.4	42.8	7.8	63	18	23	14	679	0	0	0	14	0	4.10	-.66	1.32	26			
VIENNA	52.9	31.0	42.0	6.1	66	18	19	14	709	0	0	0	20	0	4.02	-.50	.85	25			
--DIVISIONAL DATA-->			42.8	7.8											3.99	.57					
LOWER SOUTHERN 03																					
LA PLATA 1 W	53.6	33.4	43.5	8.9	70	18	18	14	658	0	0	0	14	0	4.65	1.51	1.20	1			
MECHANICSVILLE 5 NE	53.4	32.8	43.1		69	18	17	14	673	0	0	0	16	0	3.66		.94	26			
OWINGS FERRY LANDING	53.1	32.5	42.8	8.3	68	18	18	14	681	0	0	0	17	0	4.47	1.33	1.11	1			
PATUXENT RIVER																					
TALL TIMBERS																					
--DIVISIONAL DATA-->			43.1	8.2											4.56	1.29					
UPPER SOUTHERN 04																					
ANNAPOLIS POLICE BRKS	53.0	27.7	40.4		73	18	18	7+	755	0	0	0	24	0	3.99		1.06	26			
BALTIMORE WSO ARPT	51.3	32.6	42.0	9.3	68	18	22	14	707	0	0	0	17	0	3.71	-.71	1.08	25			
BELTSVILLE	50.4	29.6	40.0	8.7	68	19+	19	8+	765	0	0	0	17	0	4.18	1.27	1.12	26			
COLLEGE PARK	50.2	29.7	41.5	7.5	69	19+	23	7+	722	0	0	0	16	0	4.14	1.13	.95	26+			
DALECARLIA RESVR DC	53.6	26.2	39.9	6.0	71	18	14	14	769	0	0	0	27	0	5.06	1.99	.86	26			
GLENN DALE BELL STN	52.9	30.0	41.5	8.3	70	17	18	7	719	0	0	0	20	0	4.76	1.70	1.30	1			
LAUREL 3 W	51.4	33.9	42.7	9.3	69	17	25	14	685	0	0	0	14	0	4.50	1.63	1.46	25			
NATIONAL ARBORETUM DC	51.8	31.8	41.8	7.0	70	19+	22	15	710	0	0	0	21	0	4.27	1.10	1.28	1			
UPPER MARLBORO 3 NNW																					
--DIVISIONAL DATA-->			41.2	8.0											4.33	1.27					
NORTHERN EASTERN SHORE 05																					
CHESTERTOWN	50.2	32.0	41.1	8.0	67	17	22	14+	734	0	0	0	19	0	4.42	1.14	1.47	25			
MILLINGTON 1 SE	51.4	31.6	41.5	9.3	65	18	20	14	721	0	0	0	17	0	4.18		1.13	1			
--DIVISIONAL DATA-->			41.3	8.1											4.42	1.15					
NORTHERN CENTRAL 06																					
ABERDEEN PHILLIPS FLD		34.0			65	19+	25	3		0	0	0	9	0	4.84		1.12	26			
BALTIMORE WSO CITY	53.8	38.1	46.0	10.5	70	18	28	13	585	0	0	0	6	0	4.18	1.11	1.45	25			
BENTON POLICE BARRACKS	51.3	28.1	39.7	8.5	68	18	17	14	776	0	0	0	2	0	4.88	1.45	1.05	30			
BOYDS 2 NW	50.7	33.3	42.0		68	17	23	27+	706	0	0	0	14	0	3.00		.64	26			
CATOCTIN MOUNTAIN PARK	45.5	30.5	38.0		63	17	19	13	828	0	0	0	12	0	3.71		.94	26			
CLARKSVILLE 3 NNE	53.1	29.3	41.2		68	17	16	14	730	0	0	0	20	0	4.21		.98	26			
CONOWINGO DAM	48.6	25.7	37.2	7.0	65	18	17	7	854	0	0	0	27	0	6.72	3.39	1.62	26			
DAMASCUS 2 SW	49.5	33.4	41.5		66	17	22	14	720	0	0	0	15	0	4.13		1.05	29			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND  
DELAWARE  
JANUARY 1990

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	NO. OF DAYS					TOTAL	TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
											MAX	MIN										
EMMITSBURG 2 SE	48.5	30.1	39.3		67 18	19 7	787	0	0	0	0	4.37		1.07	29	7.0	2	8	10	3	1	0
FREDERICK POLICE BRKS	51.4	32.6	42.0		68 17	22 14	704	0	0	0	0	2.60		.97	30	1.0	1	9	1	1	0	
MILLERS 4 NE	48.2	31.1	39.7		64 18+	20 14	775	0	0	0	0	4.27		.73	26	1.4	6	8	8	4	5	0
ROCKVILLE 1 NE	49.6	33.0	41.3	8.3	69 18+	24 7	717	0	0	0	0	3.56		.09	29	.4	8	4	4	4	2	0
TOWSON	50.1	30.5	40.3		66 18+	21 14+	758	0	0	0	0	6.05	2.74	1.00	29	.0	0	0	1	2	6	1
UNIONVILLE	49.3	28.0	38.7	9.5	68 17	17 14+	799	0	0	0	0	3.71		.77	29	3.0	3	8	7	7	0	0
WESTMINSTER POLICE BRK	49.3	31.6	40.5	10.4	65 19+	23 13	754	0	0	0	0	3.16		.38	29	3.0	3	9	4	3	3	1
WOODSTOCK	51.5	31.7	41.6	10.2	68 17	21 14	720	0	0	0	0	4.27	1.13	.93	26	2.0	1	8	7	5	0	
--DIVISIONAL DATA-->			40.7	9.1								4.23	1.10			4.2						
APPALACHIAN MOUNTAIN 07																						
CUMBERLAND 2	42.3	27.8	35.1		64 18	16 14+	924	0	0	5	26	4.06		1.03	30	25.3	1	5	2	9	2	1
FROSTBURG 2	47.3	30.8	39.1	8.5	67 19+	21 14	797	0	0	0	21	3.38	.58	1.63	30	4.8	3	9	6	2	1	
HAGERSTOWN	48.7	27.4	38.1	8.9	70 19	15 14	827	0	0	0	23	2.87		1.30	30	5.0	0		6	2	1	
HANCOCK			37.4	7.3								3.72	.97			11.7						
--DIVISIONAL DATA-->																						
ALLEGHENY PLATEAU 08																						
MC HENRY 2 NW	40.7	26.3	33.5		61 18	13 13	968	0	0	5	27	5.31		.98	30	25.5	8	5	13	3	0	
OAKLAND 1 SE	46.3	26.4	36.4	10.2	63 17	10 14	881	0	0	1	26	3.41	-.38	.72	29	20.6	1	5	10	2	0	
SAVAGE RIVER DAM	44.3	26.3	35.3	8.9	65 18	12 15+	913	0	0	2	28	3.29	.69	1.05	30	16.5	5	9	6	2	1	
--DIVISIONAL DATA-->			35.1	9.6								4.00	.47			20.9						
DELAWARE																						
NORTHERN 01																						
NEWARK UNIVERSITY FARM	50.0	30.8	40.4	8.7	66 18	21 14	757	0	0	0	20	4.81	1.71	.97	25	.0	0		9	4	0	
WILMINGTON WSO ARPT	49.1	31.9	40.5	9.3	65 18	22 14	749	0	0	0	20	3.56	.45	1.31	25	1.5	T		7	3	1	
WILMINGTON PORTER RSVR	47.9	32.7	40.3	9.5	63 18	22 14	761	0	0	0	18	4.85	1.56	1.50	25	.6	1	8	8	4	1	
--DIVISIONAL DATA-->			40.4	8.8								4.41	1.28			.7						
SOUTHERN 02																						
DOVER	51.3	33.7	42.5	8.1	67 18	25 4	691	0	0	0	16	4.00	.76	1.33	1	.2	0		8	2	1	
GEORGETOWN 5 SW	53.3	32.5	42.9	8.7	66 26+	21 14	676	0	0	0	16	3.73	.38	.83	9	.0	0		7	3	0	
GREENWOOD 2 NE	52.4	33.8	43.1		65 18+	22 14	671	0	0	0	15	3.14		.85	25	.2	T		7	3	0	
LEWES	53.4	36.0	44.7	10.1	66 18+	26 14+	623	0	0	0	10	3.74	-.27	.89	25	.0	0		8	3	0	
MILFORD 4 SE	53.0	33.5	43.3	9.0	67 17	22 14+	668	0	0	0	15	2.57	-.82	.73	25	.0	0		8	1	0	
--DIVISIONAL DATA-->			43.3	8.8								3.44	.01			.1						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION (INCHES)

MARYLAND AND  
DELAWARE  
JANUARY 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	4.40	*	*	1.30	.13	.27	.06	.10	1.00											.02	.21	.02			.44	.48	.18			.15		.02
CRISFIELD SOMERS COVE	2.52	.58			.02		.04		.74	.02												.27	.20			.05	.50				.10	
PRINCESS ANNE	M																															
SALISBURY	3.38	.54	T		.20	T	.37	T	.64	.12					T						.04	.19	T			.62	.53				.13	
SALISBURY FAA ARPT	3.60	.62			.29		.41		.77						T				T	T	.06	.17			T	.64	.62			.02		
SNOW HILL 4 N																																
CENTRAL EASTERN SHORE 02																																
CAMBRIDGE WATER TRMT P	3.86	.65					.29		.60	.21					.02				.01		.03	.16			.01	.64	.94			T	.30	
DENTON 2 E	M																															
ROYAL OAK 2 SSW	4.10	.79			.06		.20		.42	.25					.01						.05	.10			.02	.64	1.32			T	.22	
VIENNA	4.02	.48			.16		.40		.68	.10											.10	.25				.85	.75					.25
LOWER SOUTHERN 03																																
LA PLATA 1 W																																
MECHANICSVILLE 5 NE	4.65	1.20			.10		.17		.62	.10						.01			T		.05	.09			.01	.79	1.19			.12	.20	
OWINGS FERRY LANDING	M 3.66			T	.84	T	.18		.62	.19					T				T		.03	.06			T	.67	.94			T	.13	
PATUXENT RIVER	4.47	1.11			.10		.15		.63	.12						.03					.08	.07			.03	.77	1.10			T	.28	
TALL TIMBERS	M																															
UPPER SOUTHERN 04																																
ANNAPOLIS POLICE BRKS																																
BALTIMORE WSO ARPT	3.99	.82			.11	.01			.63	.19						.04					.02	.05			.02	.70	1.06			.08	.26	
BELTSVILLE	3.71	.15			.06		T		.81						T	.07					.06			.02	1.08	.56			.90			
COLLEGE PARK	4.18	.95			T	.07			.60							T				T	*		.05	.02	.44	1.12			.02	.90		
DALECARLIA RESVR DC	4.14	.95			T				.62							.02						T		T	.69	.95			.02	.89		
GLENN DALE BELL STN	5.06	.65	.15		.06				.47	.18						.30					.01	.55		.20	.03	.63	.86			.39	.56	.02
LAUREL 3 W	4.76	1.30			.05	.01			.38	.35	.02				T				T		T	.04			.02	.76	1.02			.13	.65	
NATIONAL ARBORETUM DC	4.50	.29			.02				.70		.01					.01					.02			.01	1.46	.73			1.25			
UPPER MARLBORO 3 NNW	4.27	1.28								.53											.01	.03			.01	.33	1.25		.05		.78	
NORTHERN EASTERN SHORE 05																																
CHESTERTOWN																																
MILLINGTON 1 SE	4.42	.87			.08		.03		.78							.07			T			.14	.03		.03	1.47	.50			.41	.01	
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD																																
BALTIMORE WSO CITY	M 4.18	1.13			.06		.03		.36							.06									1.10	.98			T	.27		
BENSON POLICE BARRACKS	4.84	*	.87		.04	*	*	.36	.31					*	*	*	.10				*	*	.14		.01	.94	1.12		*	*	.15	.80
BOYDS 2 NW	4.18	.16			.04			.61								.08					.11	*		.03	1.45	.55			1.09	.06		
BRIGHTON DAM	4.88	.48			.08	T		.35	.17						.16						.25	.02		.05	.94	1.03			.30	1.05		
CATOCTIN MOUNTAIN PARK	3.00				.10			.36	.15						.12						.13				.56	.64			.35	.59		
CLARKSVILLE 3 NNE	4.95	.40			.20			.50	.80												.20				1.15	.70			1.00			
CONOWINGO DAM	3.71				.05	.01		.20	.04							.16					.34	.11			.37	.94			.79	.70		
DAMASCUS 2 SW	4.21	.47			.07			.47	.13						.06						.15				.79	.98			.43	.63		
EMMITSBURG 2 SE	6.72	.90			.05	.03		.65							.21						.17			.06	.34	1.62		.17	1.10	1.11		
FREDERICK POLICE BRKS	4.13	.32			.07	.01		.72	T	T					.03				T		.14		.27	.03	.93	.66			1.05	.17		
FREDERICK 3 E	4.37				.25			.20	.25	T					.20						.40	.15			T	.35	.60			1.07	.90	
MILLERS 4 NE	2.60	.10			.07			.20	.19	.01					.10						.21	.04			T	.16	.30			.25	.97	
POTOMAC FILTER PLANT	3.83	.70			.06	T		.44							.09						.24				T	.39	.77			1.14		
ROCKVILLE 1 NE	4.27	.23			.03			.66	.05	.01					.18						.42	.03			T	.61	.73			.72	.60	
TONSON	2.71	.10			.05			.40													.03				.69	.55			.89			
UNIONVILLE	3.56	.09			.08			.60	T	.01					.02					.01	T				.02	1.03	.55			1.09	.89	
WESTMINSTER POLICE BRK	6.05	.50			.06			.25	.38						.15						.26				.50	1.00	.96		.17	.55	.89	
WOODSTOCK	3.71	.20			.05			.53	.02				.33		.08						.23	.02			T	.52	.71			.77	.58	
	3.16	.05			.05			.20							T						.05				.03	.63	T		1.38	.82		
	4.27	.46			.08			.62							.09						.10	.02			.07	.75	.93			.59	.56	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION (INCHES)

MARYLAND AND  
DELAWARE  
JANUARY 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	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EDGEMONT	4.40	1.00			.07				.29						.15						.14	.27	.02			.10	.85	T		1.51		
FROSTBURG 2	4.06	.93	.10		.05				.13	.07	.05	.03	.25	T	.22						.27	.40	T		.01	.05	.09	.02	.35	1.03		
HAGERSTOWN	3.38				.10				.33						.08					.01	T					.19	.63			1.63		
HANCOCK	M 2.87	.58			.09				-						-						.11	.20			.02	.18	.38		.01	1.30		
ALLEGHENY PLATEAU 08																																
MC HENRY 2 NW	5.31	.92	.15	T	.25			T	.04	.12	.15	.11	.40	T	.24	T			.09		.55	.48			.03	.33	.05		.42	.98		
MERRILL	2.70	.25	.04	.01	.06				.17		.12	.03	.13	.15					T		.54	.10				.12			.38	.60		
OAKLAND 1 SE	3.41	.33	T	.12	T			.35		.15	T	.03	.06		.12	T	T		.04		.62	.17			.04	.16			.72	.43		
SAVAGE RIVER DAM	3.29	.77	T	T	.03				.27	.04	T	T	.06		.09				T	T	.16	.41	T	T	T	.06	.05	T	.30	1.05		
DELAWARE																																
NORTHERN																																
NEWARK UNIVERSITY FARM	4.81	.60		.05					.32	.45					.22						.30	.05				.97	.93		.39	.53		
WILMINGTON WSO ARPT R	3.56	.22		.01	T			.76		.01		T			.16						.28	.02			T	1.31	.28		.51	T		
WILMINGTON PORTER RSVR	4.85	.22		.02	T			.95		.03					.25						.45	.10				1.50	.57		.75	.01		
SOUTHERN																																
DOVER	4.00	1.33		.08	T	.11		.41	.08	.02				.11							.11	.04			.02	.89	.38		.02	.40		
GEORGETOWN 5 SW	3.73	.80					.41		.83													.22				.69	.49			.29		
GREENHOOD 2 NE	3.14	.40		.07	.26			.56	.03			T			.02			T			.05	.10				.85	.53			.27		
LEWES	3.74	.73		.06	.37			.64	.17					T				T			.05	.17				.89	.45			.21		
MILFORD 4 SE	2.57	.10		.03	.25			.42	.11					T							.08	.11			T	.73	.42			.32		

SEE REFERENCE NOTES FOLLOWING STATION INDEX  
6

# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
JANUARY 1990

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	07	MAX	52	42	45	54	52	47	49	45	45	54	47	49	40	41	55	59	58	62	48	61	60	50	49	55	58	44	49	56	55	52	50	51.1			
		MIN	25	27	28	36	34	27	27	25	35	30	32	27	23	30	32	35	40	36	35	25	22	32	42	41	39	29	38	37	37	38	29	32.0			
CRISFIELD SOMERS COVE	17	MAX	53	40	44	47	49	49	42	41	41	49	48	48	48	42	51	53	59	59	56	42	56	57	53	50	63	61	47	51	56	57	50	50.4			
		MIN	36	30	30	31	37	37	31	35	31	39	31	38	30	25	35	35	41	47	42	38	41	35	34	46	45	36	30	40	40	42	37	36.3			
PRINCESS ANNE	17	MAX																																		M	
		MIN																																		M	
SALISBURY	17	MAX	62	44	51	56	57	47	48	45	53	52	50	53	41	43	54	60	67	66	62	47	61	53	53	58	70	65	51	59	58	65	60	55.2			
		MIN	36	26	26	26	37	36	25	32	28	38	32	28	27	21	30	36	38	52	38	35	48	30	35	42	46	34	26	37	40	40	32	34.1			
		OBS					27									39																					
SALISBURY FAA ARPT	MID	MAX	60	44	50	57	56	46	48	40	53	52	52	47	37	43	53	62	67	66	58	51	60	54	56	58	69	60	51	58	61	50	59	54.1			
		MIN	34	24	25	26	36	28	24	33	29	40	27	28	24	19	33	29	34	54	37	37	36	30	28	44	48	34	24	38	40	38	31	32.6			
		OBS																																			
SNOW HILL 4 N	18	MAX	61	45	51	57	57	46	46	42	52	53	50	50	41	44	51	65	66	65	63	45	61	53	55	59	65	61	51	61	57	59	59	54.5			
		MIN	38	26	27	26	40	35	24	33	30	40	28	29	29	18	27	29	34	50	40	36	44	30	28	41	47	37	25	35	38	40	30	33.4			
CENTRAL EASTERN SHORE	02																																				
CAMBRIDGE WATER TRMT P	16	MAX	56	46	47	51	54	48	46	43	50	52	48	50	41	45	48	65	64	69	67	45	53	55	55	55	59	65	51	57	56	60	54	53.4			
		MIN	36	26	27	28	42	36	25	34	27	36	28	30	27	20	33	30	36	50	39	35	42	30	31	41	44	35	25	35	40	39	34	33.6			
DENTON 2 E	17	MAX																																	M		
		MIN																																		M	
ROYAL OAK 2 SSW	18	MAX	52	44	47	52	55	45	43	40	49	49	46	46	39	41	51	62	60	63	62	43	55	50	53	53	54	59	49	58	51	58	55	51.1			
		MIN	37	27	28	27	43	36	26	33	28	36	29	31	29	23	34	30	36	51	40	36	42	31	32	45	47	34	28	37	39	40	32	34.4			
VIENNA	18	MAX	57	44	48	52	58	45	45	44	49	52	48	49	40	43	49	59	60	66	62	44	58	54	54	54	63	64	49	55	57	62	55	52.9			
		OBS																																			
		MIN	33	23	26	22	35	32	24	30	25	32	28	28	24	19	29	30	35	44	38	32	39	27	31	39	43	32	25	35	37	36	29	31.0			
		OBS						22																													
LOWER SOUTHERN	03																																				
LA PLATA 1 W	18	MAX	53	45	47	57	57	48	46	42	46	51	52	50	39	45	58	64	67	70	66	44	59	55	57	58	55	57	52	60	53	54	56	53.6			
		MIN	37	22	25	26	44	39	25	31	27	38	27	34	28	18	33	30	37	56	38	36	41	29	27	46	47	33	25	35	36	38	28	33.4			
MECHANICSVILLE 5 NE	19	MAX	55	46	46	57	57	48	46	40	48	52	52	50	39	43	58	64	67	69	62	44	60	55	55	57	54	57	52	62	49	57	54	53.4			
		MIN	36	22	25	25	39	37	24	32	26	40	27	31	27	17	29	29	34	56	39	35	42	29	27	45	48	33	23	34	39	38	28	32.8			
OWINGS FERRY LANDING	17	MAX	54	45	47	56	57	46	46	41	46	51	51	52	38	43	56	64	67	68	64	42	58	59	54	56	54	57	51	61	50	56	55	53.1			
		MIN	37	22	24	25	41	36	23	32	25	36	27	29	27	18	30	28	35	53	39	34	41	29	30	44	47	32	23	33	38	39	29	32.5			
PATUXENT RIVER	MID	MAX																																	M		
		MIN																																		M	
TALL TIMBERS	17	MAX																																		M	
		MIN																																		M	
UPPER SOUTHERN	04																																				
ANNAPOLIS POLICE BRKS	17	MAX	53	47	47	56	59	48	48	40	46	52	50	53	39	45	55	66	69	73	64	41	54	59	54	55	52	57	46	55	51	53	55	53.0			
		OBS	43																																		
		MIN	31	18	19	21	36	33	18	25	23	31	25	32	21	20	29	24	29	39	33	29	27	24	25	35	39	28	23	32	34	31	25	27.7			
BALTIMORE WSO ARPT	MID	MAX	47	46	50	54	49	48	43	37	46	50	51	46	37	46	51	64	67	68	49	41	58	51	54	61	57	57	51	61	47	48	56	51.3			
		MIN	33	24	25	26	39	31	24	30	28	38	30	31	24	22	32	31	36	49	35	35	40	33	30	43	47	28	24	33	40	39	30	32.6			
BELTSVILLE	08	MAX	46	44	46	53	55	48	48	42	35	46	48	53	41	37	47	55	64	68	68	45	46	60	51	53	60	57	42	51	60	46	48	50.4			
		OBS																																			
		MIN	37	26	23	25	31	37	19	19	25	28	23	34	26	20	26	28	33	38	36	35	36	29	27	35	34	34	23	34	37	33	27	29.6			
		OBS																																			
COLLEGE PARK	09	MAX	43	40	45	50	53	49	47	41	34	45	50	52	43	39	47	54	65	69	69	44	45	59	52	54	60	57	43	52	60	47	49	50.2			
		MIN	30	28	23	25	34	39	23	29	27	32	30	38	28	24	27	29	36	47	38	36	38	33	29	39	49	34	25	37	38	39	29	32.7			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
JANUARY 1990

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 OBS MIN OBS	44 29	49 18	52 17	57 67	57 31	48 31	45 16	40 23	37 20	50 20	54 22	54 30	39 20	47 14	57 24	67 21	68 27	71 53	62 32	44 29	59 36	53 25	54 23	63 40	59 42	57 21	53 19	60 27	55 28	50 32	56 23	53.6	
GLENN DALE BELL STN	16	MAX OBS MIN	47 32	48 21	53 20	55 22	56 37	49 33	49 18	42 28	38 26	50 34	53 26	50 26	38 25	40 20	55 29	65 25	70 31	69 56	67 34	44 33	48 37	59 25	56 25	62 43	58 48	57 32	44 20	54 31	53 63	53 36	59 24	52.9	
LAUREL 3 W	MID	MAX MIN OBS	48 33	47 26	51 36	54 29	53 39	48 35	41 26	40 28	45 27	49 36	47 29	47 29	38 26	47 25	53 34	64 38	69 42	66 50	52 37	42 39	59 32	51 30	54 36	60 38	56 48	55 30	52 27	59 37	47 38	43 39	57 31	51.4	
NATIONAL ARBORETUM DC	OB	MAX MIN	47 32	43 30	46 27	52 27	55 31	50 39	48 25	43 24	37 27	46 32	51 30	54 30	48 30	40 24	70 22	65 30	70 30	70 36	48 41	48 36	60 36	52 31	55 32	61 49	58 37	43 26	53 26	62 41	49 41	49 30	51.8		
UPPER MARLBORO 3 NNW	OB	MAX MIN																																	M
NORTHERN EASTERN SHORE	05																																		M
CHESTERTOWN	23	MAX MIN	45 32	45 26	49 25	48 34	45 32	41 22	35 29	50 28	50 36	48 29	45 30	36 26	44 22	45 31	63 28	67 34	65 51	51 35	42 33	51 35	50 30	53 30	56 44	57 46	55 31	51 26	56 36	59 39	49 37	53 30	50.2		
MILLINGTON 1 SE	18	MAX OBS MIN OBS	51 37	44 24	51 23	52 24	53 38	48 33	41 21	36 28	50 27	52 38	47 29	45 32	39 27	43 20	47 30	63 26	64 33	65 54	61 36	41 33	51 40	51 29	52 27	56 40	59 34	60 **	49 33	57 25	50 32	59 40	55 28	51.4	
NORTHERN CENTRAL	06																																		M
ABERDEEN PHILLIPS FLD	16	MAX MIN	45 27	45 27	47 25	49 26	49 41	45 41	34 27	45 28	50 37	46 32	44 38	44 38	61 28	62 33	65 47	65 36	51 33	42 28	51 33	50 30	53 44	56 41	57 45	48 35	48 35	45 40	49 40	51 40	54 29	34.0			
BALTIMORE WSO CITY	MID	MAX MIN	47 35	52 31	53 33	57 33	53 44	52 38	46 32	41 35	49 35	55 41	52 39	47 32	41 28	47 29	51 35	69 38	64 44	70 52	52 40	44 38	58 42	56 42	56 42	63 47	57 48	57 34	55 32	62 41	49 42	53 41	61 37	53.8	
BENSON POLICE BARRACKS	17	MAX MIN	46 31	46 20	51 20	45 22	51 35	48 30	47 19	37 24	48 24	47 33	37 27	47 29	51 21	45 17	46 28	38 26	45 29	48 42	38 31	45 28	55 30	52 25	56 36	56 38	55 30	51 20	60 27	50 35	51 34	57 26	51.3		
BOYDS 2 NW	18	MAX OBS MIN	42 33	45 26	52 26	52 31	51 38	47 35	40 36	40 32	35 25	46 34	51 30	49 32	39 23	45 33	55 32	65 36	68 41	66 55	62 32	40 34	53 36	51 33	51 35	60 44	57 41	53 32	51 23	57 35	46 35	47 36	55 29	50.7	
CATOCTIN MOUNTAIN PARK	17	MAX MIN	44 29	37 20	47 24	45 33	50 33	41 32	38 28	35 26	45 29	41 31	41 30	45 25	30 19	31 21	42 28	57 32	63 42	62 26	57 26	33 28	49 32	45 33	50 35	53 34	50 45	49 27	45 25	47 35	40 31	41 30	48 31	45.5	
CLARKSVILLE 3 NNE	17	MAX MIN	47 32	48 25	54 20	55 23	55 36	47 33	45 18	39 26	42 22	50 33	50 29	54 25	41 23	50 16	54 32	65 24	68 29	66 49	66 31	42 33	58 38	52 28	54 24	63 41	58 42	52 33	52 20	58 27	54 35	51 36	55 24	53.1	
CONOWINGO DAM	MID	MAX OBS MIN	43 30	48 24	49 19	44 22	45 22	48 27	43 17	35 22	45 21	50 29	45 25	44 25	41 19	46 18	42 25	57 23	60 26	65 38	47 27	40 26	48 28	49 26	47 23	57 32	57 38	57 24	54 20	46 26	49 35	50 34	25.7		
DAMASCUS 2 SW	19	MAX MIN	44 32	43 27	52 29	51 33	51 36	44 37	39 26	41 32	40 27	46 35	49 30	47 28	34 22	44 31	62 39	66 43	64 55	61 31	40 33	55 35	48 34	50 34	58 47	53 47	53 25	56 35	44 35	44 35	53 28	53 28	49.5		
EMMITSBURG 2 SE	17	MAX MIN	44 31	43 26	50 21	48 28	53 36	48 31	40 19	34 26	37 22	47 22	42 33	49 31	35 26	42 22	44 39	62 26	63 28	67 51	64 29	38 30	56 34	50 37	49 31	54 39	51 42	53 33	49 25	55 33	39 34	47 35	52 24	48.5	
FREDERICK POLICE BRKS	17	MAX MIN	43 32	44 28	52 28	51 29	54 39	52 35	48 23	40 30	36 25	47 32	48 32	52 32	36 23	46 22	45 30	64 31	68 37	67 55	65 34	43 32	57 34	50 35	51 48	59 43	58 41	52 36	52 28	56 34	53 34	47 31	57 30	51.4	
MILLERS 4 NE	18	MAX MIN	45 32	42 25	51 26	50 33	49 35	46 32	40 22	37 31	46 25	45 35	42 32	44 30	33 23	41 20	47 30	60 35	64 36	64 49	60 31	35 29	52 34	52 34	48 35	56 43	53 41	47 36	53 34	43 34	47 31	52 30	48.2		
ROCKVILLE 1 NE	MID	MAX MIN	42 33	44 29	50 27	54 27	49 39	47 31	42 24	36 30	43 26	46 39	53 32	42 30	35 26	43 26	55 44	62 30	65 37	65 45	45 36	43 36	54 40	51 36	52 35	61 46	55 49	52 29	50 25	57 37	46 39	45 38	53 29	49.6	
TOWSON	18	MAX MIN	47 29	45 22	49 24	54 22	52 30	46 35	44 22	38 30	45 26	50 36	48 31	47 33	36 21	43 21	48 29	63 32	62 36	66 40	64 32	40 30	57 36	48 33	49 30	54 39	48 41	50 30	60 31	48 36	48 36	55 32	50.1		
UNIONVILLE	07	MAX OBS MIN OBS	40 33	43 21	52 20	50 22	50 34	48 31	42 17	36 25	41 17	48 34	47 30	47 33	36 25	45 17	50 31	55 24	68 28	67 54	61 26	40 30	46 35	50 35	49 25	58 42	52 41	53 32	41 20	55 29	58 32	46 37	54 22	49.3	

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
JANUARY 1990

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		
			WESTMINSTER POLICE BRK	17	MAX MIN OBS	46 32 **	41 25 **	50 29	51 30	51 28	45 37	50 24	41 27	43 24	45 34	44 30	46 28	35 23	42 27	48 27	60 39	64 42	65 53	65 31	37 29	54 32	53 37	50 31	59 39	60 38	50 32	42 25	50 29		45 33
WOODSTOCK	18	MAX MIN	45 34	46 25	54 23	53 25	52 38	47 34	43 27	37 28	43 25	49 33	48 31	47 33	37 25	47 21	52 32	64 27	68 32	67 52	63 33	40 34	58 38	57 33	52 28	61 41	55 46	55 32	51 22	57 31	45 37	48 36	56 26	51.5 31.7	
APPALACHIAN MOUNTAIN CUMBERLAND 2	07	18	MAX MIN																																M
FROSTBURG 2	07	MAX MIN	44 26	28 22	37 22	45 33	51 33	38 31	38 27	40 26	35 28	47 31	36 26	46 26	26 16	22 16	32 17	46 32	55 42	64 42	64 42	56 27	34 23	54 28	47 31	45 31	48 31	52 40	52 28	28 24	47 24	46 26	36 26	35 26	42.3 27.8
HAGERSTOWN	08	MAX MIN OBS	42 32 **	40 26 **	45 26	50 30	49 34	43 32	48 23	41 30	38 25	45 28	47 33	49 30	39 24	35 21	43 31	48 32	63 38	67 36	67 31	39 29	40 33	53 35	50 31	48 37	59 43	52 32	42 26	51 37	50 33	39 31	45 25	47.3 30.8	
HANCOCK	08	MAX MIN OBS	42 33	39 27	47 22	54 26	54 33	48 30	55 17	47 20	33 23	45 19	48 30	54 29	38 24	35 15	43 22	45 32	66 31	64 33	70 28	41 28	38 33	54 35	54 29	51 30	61 45	52 34	39 20	55 19	50 29	40 33	48 20	48.7 27.4	
ALLEGHENY PLATEAU MC HENRY 2 NW	08	MAX MIN	46 22	26 22	35 22	41 32	48 29	38 28	35 26	38 26	35 25	47 31	32 24	43 22	24 13	21 14	37 15	44 35	52 42	61 42	52 21	33 22	54 31	43 28	39 29	46 30	50 40	54 23	30 23	47 28	38 25	38 22	36 22	40.7 26.3	
OAKLAND 1 SE	17	MAX MIN	46 24	36 22	43 14	52 25	51 31	37 30	38 21	36 24	52 16	44 28	44 26	22 21	36 10	43 29	51 41	63 30	56 51	51 23	57 30	52 35	41 30	48 31	51 42	56 36	55 22	50 21	49 21	35 27	40 25	49 16	46.3 26.4		
SAVAGE RIVER DAM	08	MAX MIN OBS	43 29	33 26	38 22	46 28	52 32	42 32	42 22	43 22	35 18	45 22	38 26	49 26	31 20	26 12	36 12	49 30	57 32	65 36	59 28	39 27	45 31	49 34	45 30	51 30	56 38	54 28	33 22	49 22	46 29	38 28	38 21	44.3 26.3	
DELAWARE NORTHERN	01																																		
NEWARK UNIVERSITY FARM	17	MAX MIN	45 27	43 23	49 24	51 25	51 35	41 33	46 23	37 28	50 28	50 34	49 31	43 36	38 27	42 21	43 31	62 28	65 31	66 45	61 31	40 30	48 38	49 27	51 27	57 38	52 43	57 33	51 23	57 28	50 39	51 39	55 28	50.0 30.8	
WILMINGTON WSO ARPT	MID	MAX MIN	44 32	43 26	47 26	52 27	47 35	46 35	42 27	37 31	51 28	50 37	48 33	43 30	37 25	42 32	43 28	61 28	59 33	65 44	45 32	39 31	48 35	48 30	49 28	58 42	58 45	49 31	57 25	52 41	48 40	56 29	49.1 31.9		
WILMINGTON PORTER RSVR	MID	MAX MIN	46 32	41 26	47 27	51 29	47 35	43 29	40 25	39 32	48 30	46 38	45 34	41 29	35 25	40 22	41 32	60 32	59 37	63 46	47 33	39 31	45 34	47 29	47 33	57 42	56 46	55 32	47 27	55 35	55 40	47 39	56 32	47.9 32.7	
DOVER	17	MAX MIN	46 34	42 27	51 29	54 25	55 43	52 33	44 30	38 33	54 30	45 39	45 34	44 27	38 27	39 29	49 29	63 31	62 48	67 51	65 32	41 33	58 40	51 30	52 31	58 38	57 45	54 34	51 26	58 29	50 40	50 37	57 30	51.3 33.7	
GEORGETOWN 5 SW	08	MAX MIN OBS	61 33	39 22	44 28	51 26	57 34	51 34	43 23	46 32	40 30	53 32	52 29	51 29	41 30	38 21	50 29	53 29	62 33	66 41	65 35	61 35	56 41	60 31	53 29	55 33	59 48	66 39	49 35	61 35	60 40	61 40	49 30	53.3 32.5	
GREENWOOD 2 NE	18	MAX MIN	58 36	43 26	50 27	53 28	55 37	55 35	43 24	39 31	51 29	50 40	48 29	47 35	36 27	42 22	50 30	61 29	65 37	65 54	57 37	43 34	57 42	50 31	55 30	55 48	55 47	64 35	49 25	58 35	55 39	61 39	55 30	52.4 33.8	
LEWES	17	MAX MIN	60 38	47 28	48 30	56 29	58 39	44 36	45 26	40 35	52 32	52 40	49 33	52 37	38 29	41 26	52 34	64 32	66 44	66 54	63 39	43 36	61 41	53 32	52 37	60 44	64 44	63 36	59 29	57 39	49 41	59 41	51 34	53.4 36.0	
MILFORD 4 SE	17	MAX MIN	59 38	44 27	49 28	55 26	57 36	45 34	45 22	38 32	53 29	52 39	51 29	51 37	37 28	44 22	50 30	63 29	67 39	66 52	66 36	43 35	58 38	52 31	53 31	58 42	53 46	64 35	50 24	58 34	48 39	60 40	53 30	53.0 33.5	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND  
DELAWARE  
JANUARY 1990

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																															
CENTRAL EASTERN SHORE 02																															
ROYAL OAK 2 SSW									T	.7																					
										T																					
LOWER SOUTHERN 03																															
LA PLATA 1 W									.2	.1																					
									T	T																					
MECHANICSVILLE 5 NE																															
									T	T																					
OWINGS FERRY LANDING																															
									T	T																					
UPPER SOUTHERN 04																															
BALTIMORE WSO ARPT									.5																						
										T																					
BELTSVILLE																															
									T	.4																					
NORTHERN EASTERN SHORE 05																															
CHESTERTOWN									.5																						
									1																						
NORTHERN CENTRAL 06																															
ABERDEEN PHILLIPS FLD																															
									T	T																					
BENSON POLICE BARRACKS									3.5																						
									1																						
BOYDS 2 NW																															
									1																						
BOYDS 2 NW									2.0	1.0																					
									2	2	T																				
CATOCTIN MOUNTAIN PARK									3.0																						
									3	2																					
CLARKSVILLE 3 NNE									1.0	.6																					
									1	1																					
DAMASCUS 2 SW									4.8																						
									5	4	T	T	T	T																	
EMMITSBURG 2 SE									2.0																						
									2	1																					
FREDERICK POLICE BRKS									1.0																						
									1	T																					
MILLERS 4 NE									6.4	.5	T																				
									6	4	T																				
ROCKVILLE 1 NE									.7																						
									1																						
WESTMINSTER POLICE BRK									3.0																						
									3																						
WOODSTOCK									1.5																						
									1																						

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

# SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND  
DELAWARE  
JANUARY 1990

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	
APPALACHIAN MOUNTAIN 07																																
FROSTBURG 2	SNOWFALL SN ON GND	.5 13	2.5 15	12	11	5	5	5	4	1.8 5	1.0 3	.8 4	8.0 3	T 11	4.0 10																	
HAGERSTOWN	SNOWFALL SN ON GND									3.0 3	1				1.5 2												.3 T					
HANCOCK	SNOWFALL SN ON GND									4.0 -	-				1.0																	
ALLEGHENY PLATEAU 08																																
MC HENRY 2 NW	SNOWFALL SN ON GND	2.0 5	2.0 6	5	2	T	T	T	T	.5 1	T	2.0 2	1.5 1	5.0 6	T 8	3.0 1										4.0 3	.5 2	T	4.0 3	1.0 3		
MERRILL	SNOWFALL SN ON GND		1.0 3		2	2	1			3.0 3	1	T	T	4.2 4	3.0 6																	
OAKLAND 1 SE	SNOWFALL SN ON GND	2.5 -	T -	-	-	-	-	-	3.5 -	-	1.3 -	-	2.0 -	3.5 -	2.0 -												2.8 -	-	1.0 -	2.0 -	-	-
SAVAGE RIVER DAM	SNOWFALL SN ON GND	2.0 2	T 2	2	2	1	T			5.0 5	1.0 2	T	2.0 2	2	1.0 2																	
DELAWARE																																
NORTHERN 01																																
WILMINGTON WSO ARPT	SNOWFALL SN ON GND WTR EQUIV									.5 T			T		.6 T													.2				
WILMINGTON PORTER RSVR	SNOWFALL SN ON GND									.5 1					.1																	
SOUTHERN 02																																
DOVER	SNOWFALL SN ON GND									.2 T																						
GREENWOOD 2 NE	SNOWFALL SN ON GND									.2				T																		

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

# STATION INDEX

MARYLAND AND  
DELAWARE  
JANUARY 1990

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	001506		HARFORD	39 28	76 10W	57	16	16		C H	ROSS AVIATION INC
ANNAPOLIS POLICE BRKS	001930		ANNE ARUNDEL	38 59	76 30W	30	17	17		H H	ANNAPOLIS POLICE BRKS
ASSATEAGUE IS NATL SEA	003350		WORCESTER	38 14	75 8W		07	07		H H	NATIONAL PARK SERVICE
BALTIMORE WSO ARPT	004650	R	ANNE ARUNDEL	39 11	76 40W	148	MID	MID		C H J	NATL WEATHER SERVICE
BALTIMORE WSO CITY #	004700	R	BALTIMORE CI	39 17	76 37W	14	MID	MID		C C C	OCMI COMMANDING OFFICER
BELTSVILLE	007000		PRINCE GEORG	39 2	76 53W	120	08	08		O B C	US DEPT OF AGRICULTURE
BENSON POLICE BARRACKS	073206		HARFORD	39 30	76 23W	365	17	17		H H	MARYLAND STATE POLICE
BOYDS 2 NW	103206		MONTGOMERY	39 13	77 20W	581	18	18		H H	HUNTER F STALEY
BRIGHTON DAM	112506		MONTGOMERY	39 12	77 1W	331		MID			WASH SUB SANY COMM
CAMBRIDGE WATER TRMT P	138502		DORCHESTER	38 34	76 4W	10	16	16		H H	WASTEWATER TRMT PLANT
CATOCTIN MOUNTAIN PARK	153006		FREDERICK	39 39	77 29W	1610	17	17		C H	CATOCTIN MOUNTAIN PARK
CHESTERTOWN	175005		KENT	39 13	76 4W	39	23	23		H H	THOMAS W ELIASON JR
CLARKSVILLE 3 NNE	186206		HOWARD	39 15	76 56W	365	17	17		C H	UNIVERSITY OF MARYLAND
COLLEGE PARK	199504		PRINCE GEORG	38 59	76 57W	90	09	09		C H	UNIVERSITY OF MARYLAND
CONOWINGO DAM	200606		HARFORD	39 39	76 10W	39	MID	MID			SUSQUEHANNA ELECTRIC CO
CRISFIELD SOMERS COVE	221501		SOMERSET	37 59	75 52W	8	17	17			SOMERS COVE MARINA
CUMBERLAND 2	228207		ALLEGANY	39 38	78 45W	730	18	07		H	TIMOTHY B THOMAS
DALECARLIA RESVR DC	232504		DIS COLUMBIA	38 56	77 7W	151	17	17			U S CORPS OF ENGINEERS
DAMASCUS 2 SW	233506		MONTGOMERY	39 16	77 14W	722	19	19		H	RICHARD W SCHWERDT
DENTON 2 E	252302		CAROLINE	38 53	75 48W	49	17	17		H	ARTHUR REINHOLD
EDGEMONT	277007		WASHINGTON	39 40	77 33W	905	07	07			JOHN W HARNE
EMMITSBURG 2 SE	290606		FREDERICK	39 41	77 18W	420	17	17		H	MRS LUCILLE K BEALE
FREDERICK POLICE BRKS	334806		FREDERICK	39 25	77 26W	381	17	17		H	MARYLAND STATE POLICE
FREDERICK 3 E	335506		FREDERICK	39 24	77 22W	385	07	07			MISS I MARY STALEY
FROSTBURG 2	341507		ALLEGANY	39 40	78 56W	2172	07	07		H	LEE K CLOSE
GLENN DALE BELL STN	367504		PRINCE GEORG	38 58	76 48W	151	16	16		H	USDA PLT INTRODUCT STN
HAGERSTOWN	397507		WASHINGTON	39 39	77 44W	659	08	18		H	HAGERSTOWN RESERVOIR
HANCOCK	403007		WASHINGTON	39 42	78 11W	428	08	08		C H	TOWN OF HANCOCK
LA PLATA 1 W	508003		CHARLES	38 32	77 0W	140	18	18		H	C RUSSELL LEVERING
LAUREL 3 W	511104		PRINCE GEORG	39 6	76 54W	400	MID	MID			WASH SUB SANY COMM
MC HENRY 2 NW	583208		GARRETT	39 35	79 22W	2680	08	08		C H	JOSEPH F JOHENNING
MECHANICSVILLE 5 NE	586503		ST MARYS	38 27	76 41W	100	19	19		H H	SANDRA J HASTINGS
MERRILL	589408		GARRETT	39 36	79 5W	1791	09	09		H	DELWOOD E MERRILL
MILLERS 4 NE	593406		CARROLL	39 43	76 48W	860	18	18		C H	ROBERT P MILLER
MILLINGTON 1 SE	598505		KENT	39 16	75 52W	30	18	18			HOWARD L HARVEY
NATIONAL ARBORETUM DC	635004		DIS COLUMBIA	38 54	76 59W	49	08	08		H	U S NATL ARBORETUM
OAKLAND 1 SE	662008		GARRETT	39 24	79 24W	2421	17	17		H	BEA J CROSCO
OWINGS FERRY LANDING	677003		CALVERT	38 41	76 40W	160	17	17		H	JAMES C RASMUSSEN
PATUXENT RIVER	691503		ST MARYS	38 20	76 25W	38	MID	MID		C H	NAVAL WEATHER SERVICE
POTOMAC FILTER PLANT	727206		MONTGOMERY	39 2	77 15W	269	08	08			POTOMAC WATER FILT PLT
PRINCESS ANNE	733001		SOMERSET	38 13	75 41W	20	17	17			UNIV OF MD EASTERN SHORE
ROCKVILLE 1 NE	770506		MONTGOMERY	39 6	77 6W	440	MID	17		H	WASHINGTON GAS AND LIGHT
ROYAL OAK 2 SSW	780602		TALBOT	38 43	76 11W	10	18	18		H	JOHN L SWAINE JR
SALISBURY	800001		WICOMICO	38 22	75 35W	10	17	17			CITY OF SALISBURY
SALISBURY FAA ARPT #	800501		WICOMICO	38 20	75 31W	48	MID	MID		H	FAA
SAVAGE RIVER DAM	806508		GARRETT	39 31	79 8W	1495	08	08		O B C	US CORPS OF ENGINEERS
SNOW HILL 4 N	838001		WORCESTER	38 14	75 23W	30	18	18		H	CURTIS E SHOCKLEY
TALL TIMBERS	875703		ST MARYS	38 10	76 33W	12	17	17		H	RICHARD A EVERETT
TOWSON	887706		BALTIMORE	39 23	76 34W	390	18	18			BENDIX FRIEZ
UNIONVILLE	903006		FREDERICK	39 27	77 11W	430	07	07		C	RICHARD GETZANDANNER
UPPER MARLBORO 3 NNW	907004		PRINCE GEORG	38 52	76 47W	98	08	08		O B	UNIVERSITY OF MARYLAND
VIENNA	914002		DORCHESTER	38 29	75 50W	10	18	18			DELMARVA POWER & LIGHT
WESTMINSTER POLICE BRK	944006		CARROLL	39 33	76 58W	765	17	17		H	MARYLAND STATE POLICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

MARYLAND AND  
DELAWARE  
JANUARY 1990

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER
							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52 W	459	18	18		H	JOHN A HILTZ
DELAWARE											
DOVER	2730	002	KENT	39 9	75 31 W	30	17	17		H	STATE DIV OF HIGHWAYS
GEORGETOWN 5 SW	3570	002	SUSSEX	38 38	75 27 W	45	08	08	08	C	UNIV OF DEL SUBSTATION
GREENWOOD 2 NE	3599	002	SUSSEX	38 50	75 35 W	45	18	18		H	DANIEL M SWARTZENTRUBER
LEWES	5320	002	SUSSEX	38 46	75 8 W	15	17	17		H	BOARD OF PUBLIC WORKS
MILFORD 4 SE	5915	002	SUSSEX	38 54	75 28 W	30	17	17		H	DAVID S SCHLOTT
NEWARK UNIVERSITY FARM	6415	001	NEW CASTLE	39 40	75 44 W	90	17	17	17	C	UNIV OF DEL AGRIC FARM
WILMINGTON HSO ARPT	9599	001	NEW CASTLE	39 40	75 36 W	79	MID	MID		H	NATL WEATHER SERVICE
WILMINGTON PORTER RSVR	9605	01	NEW CASTLE	39 46	75 32 W	274	MID	MID		H	WATER DEPARTMENT

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# REFERENCE NOTES

MARYLAND AND  
DELAWARE  
JANUARY 1990

## 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.  
W1 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. JANUARY 1990-0585

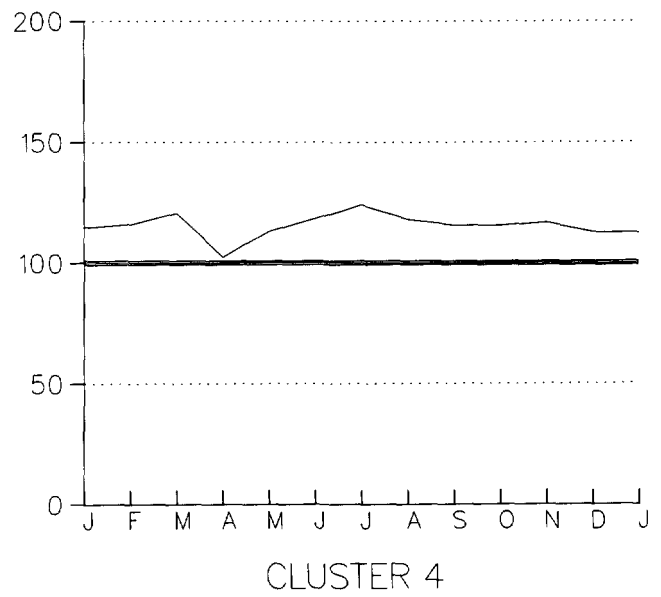
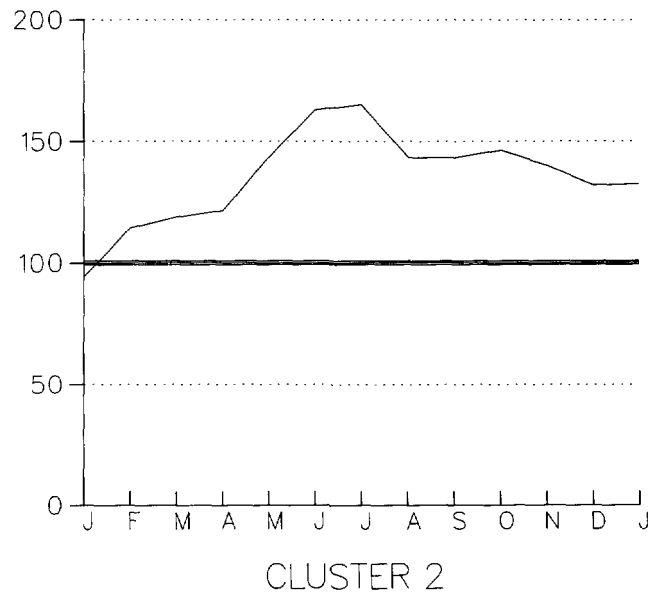
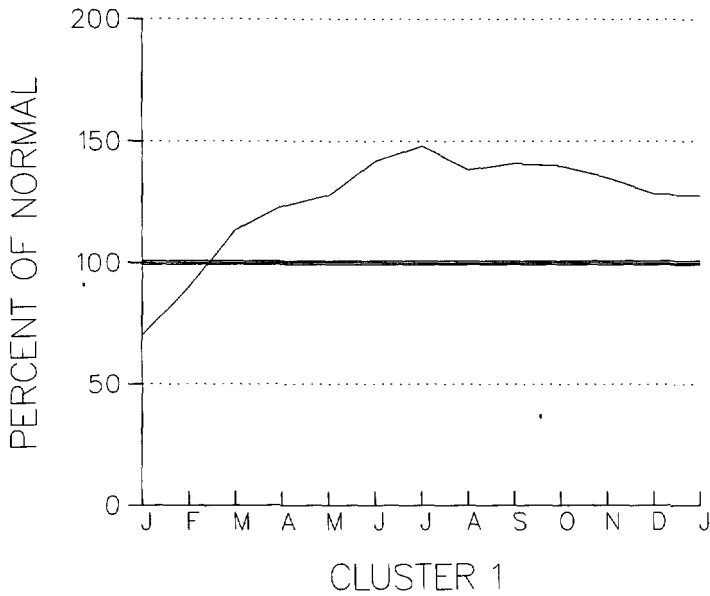
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
FOR THE LAST 13 MONTHS  
ENDING JANUARY 1990  
MARYLAND

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

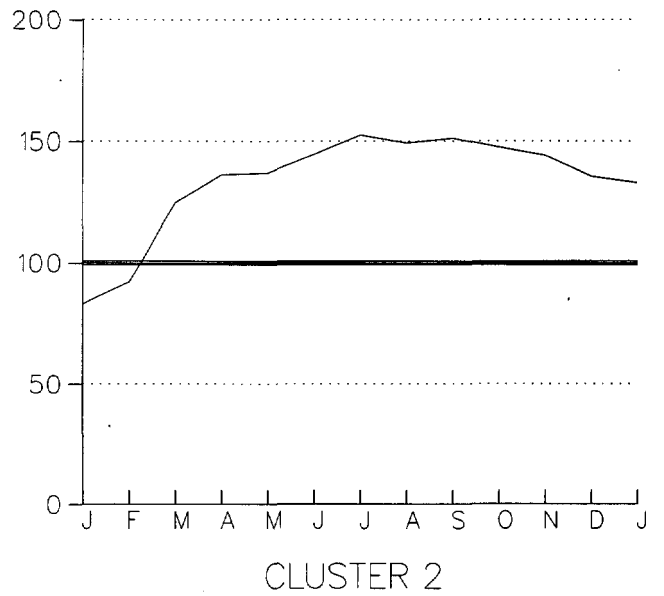
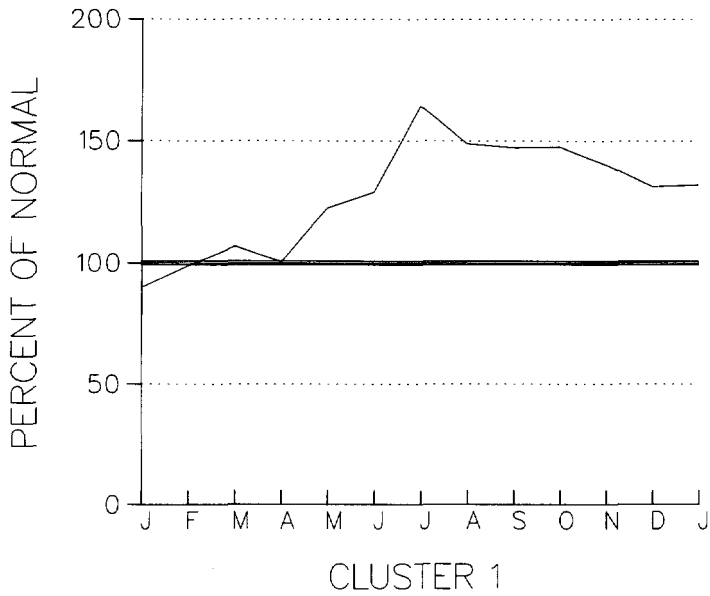
CLUSTER 4 -DIVISION(S):  
ALLEGHENY PLATEAU 08



CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
 FOR THE LAST 13 MONTHS  
 ENDING JANUARY 1990  
 DELAWARE

CLUSTER 1 -DIVISION(S):  
 NORTHERN 01

CLUSTER 2 -DIVISION(S):  
 SOUTHERN 02





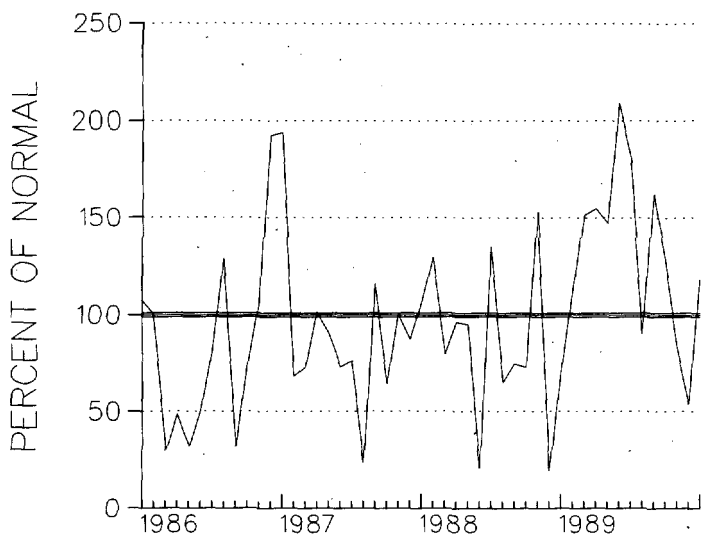
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
 FOR THE 49 MONTHS  
 ENDING JANUARY 1990  
 MARYLAND

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

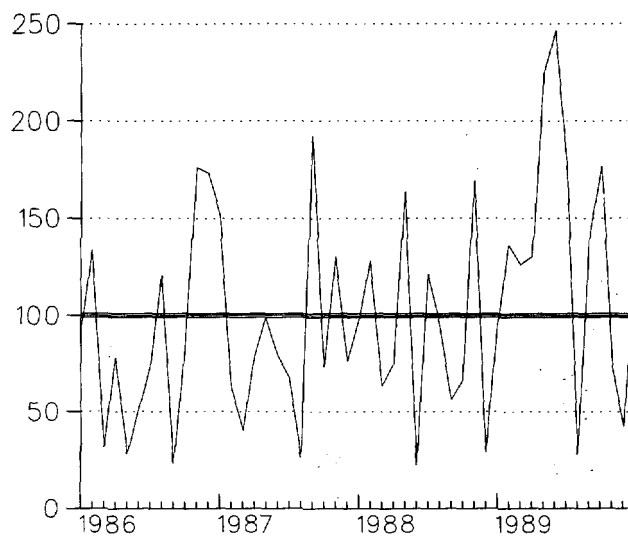
CLUSTER 2 -DIVISION(S):  
 UPPER SOUTHERN 04  
 NORTHERN EASTERN SHORE 05

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

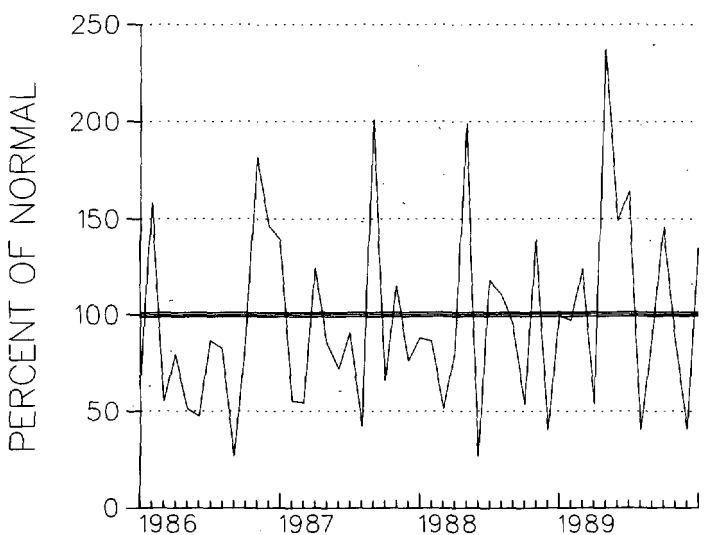
CLUSTER 4 -DIVISION(S):  
 ALLEGHENY PLATEAU 08



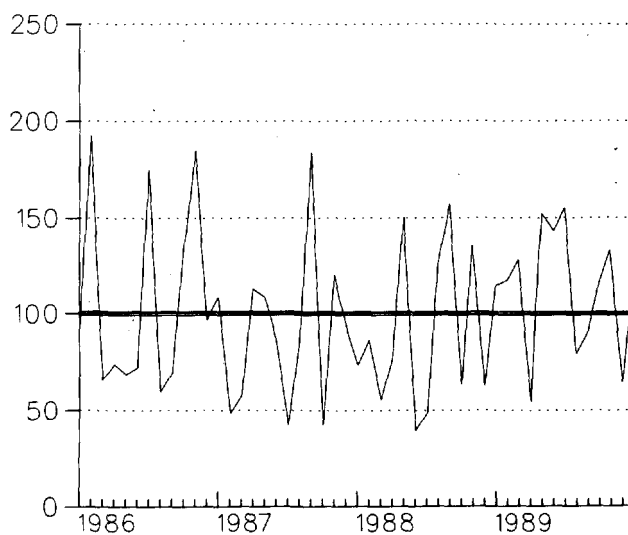
CLUSTER 1



CLUSTER 2



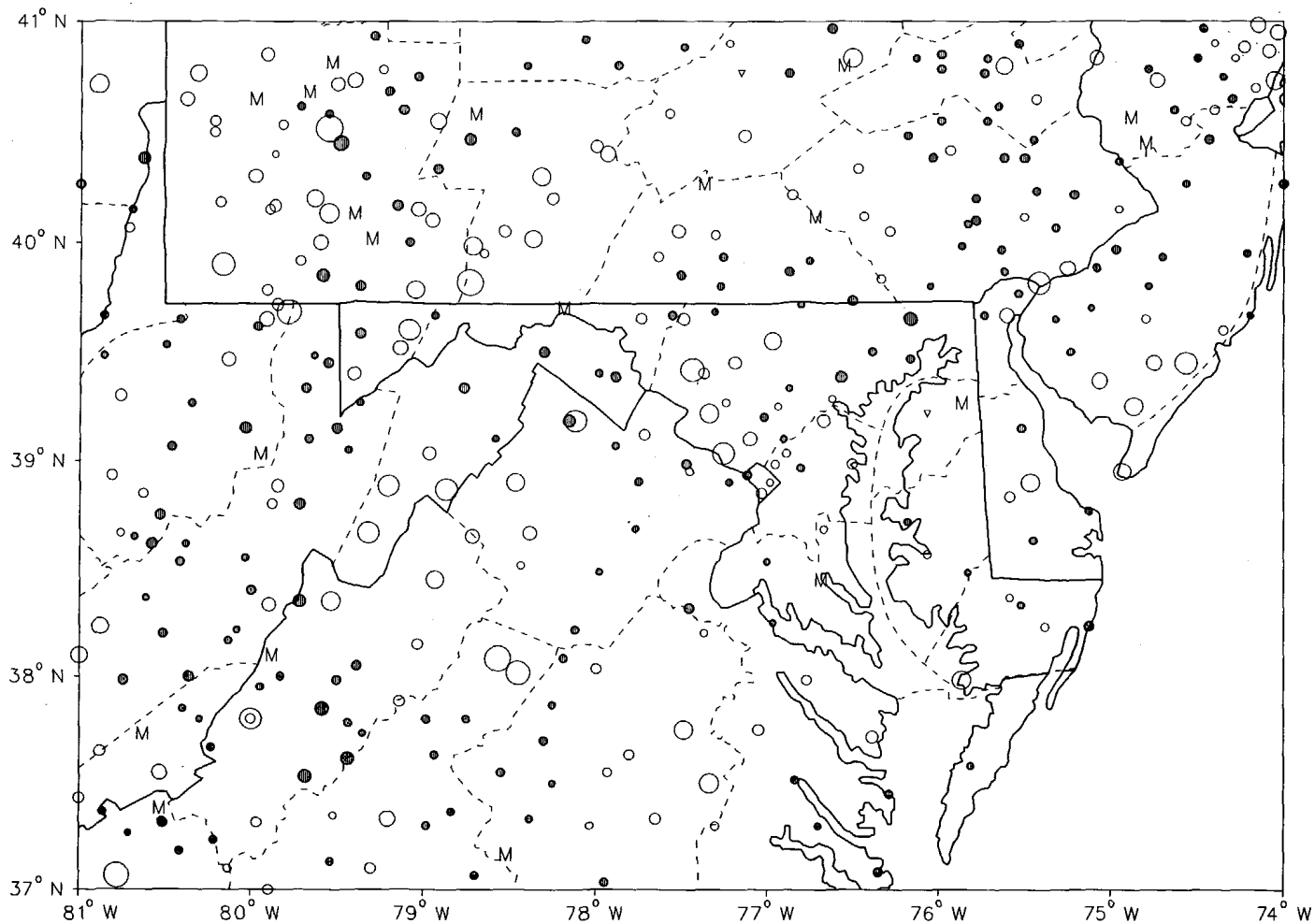
CLUSTER 3



CLUSTER 4

MONTHLY PRECIPITATION DEPARTURE FROM  
 THE DIVISIONAL AVERAGE FOR  
 JANUARY 1990  
 MARYLAND & DELAWARE

- M DENOTES INCOMPLETE DATA FOR THE MONTH
- ▽ ZERO DEPARTURE
- ○ ○ ○ ○ 5,10,20,... 50% OR MORE BELOW AVERAGE
- ● ● ● ● 10,20,40,...100% OR MORE ABOVE AVERAGE



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

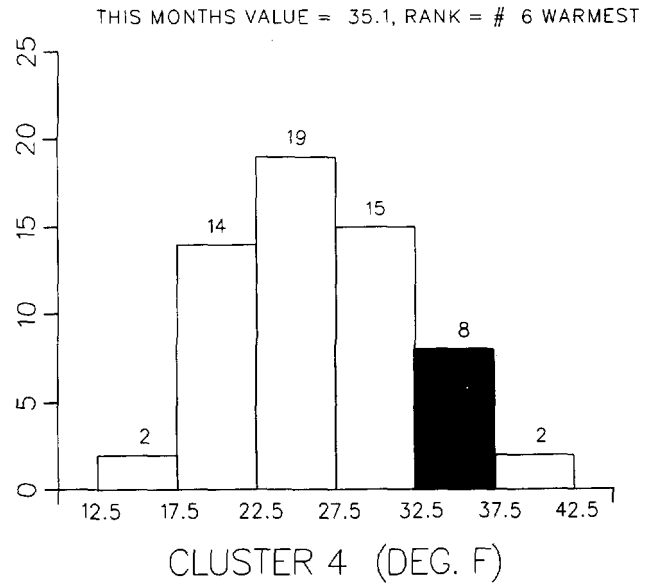
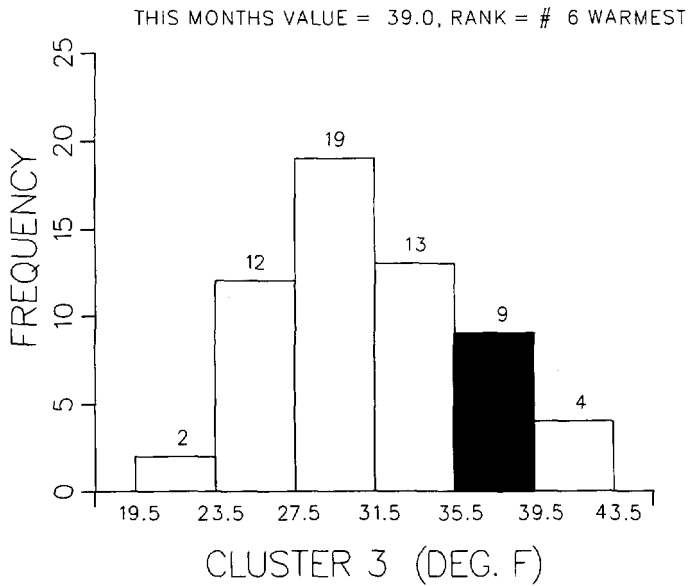
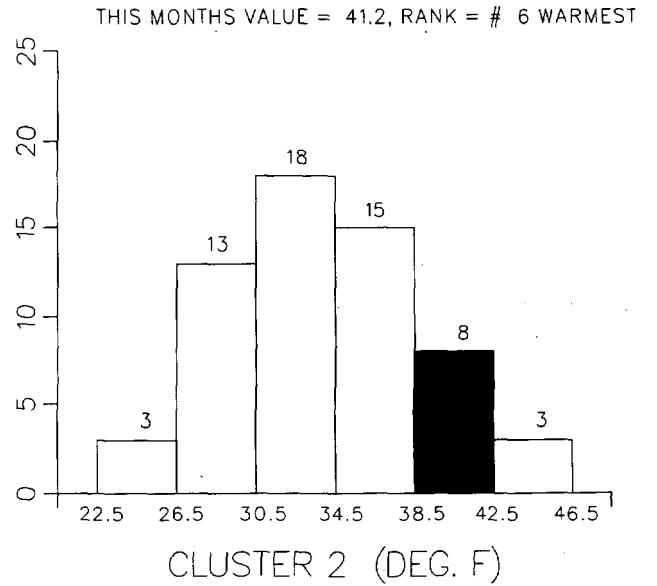
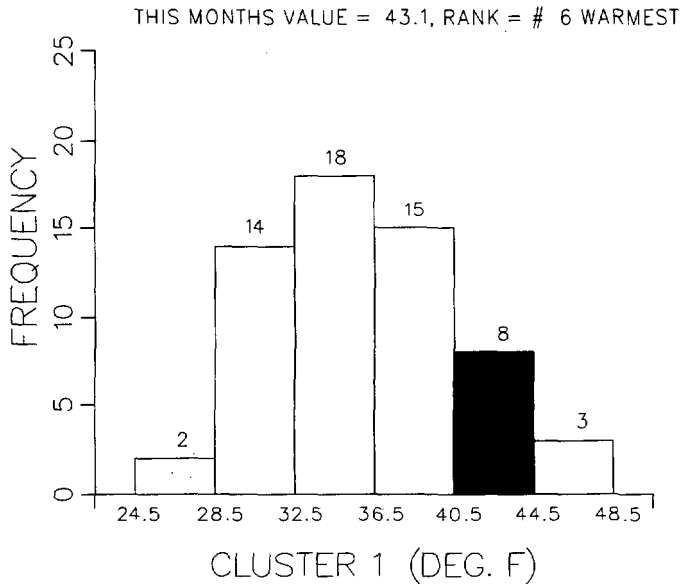
# MEAN MONTHLY TEMPERATURE FREQUENCY DISTRIBUTION FOR PERIOD OF RECORD 1931-1990 FOR MONTH OF JANUARY MARYLAND

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

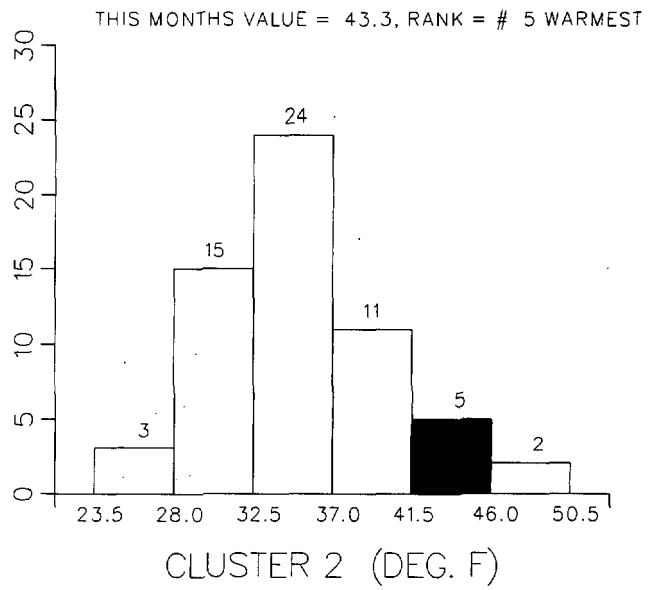
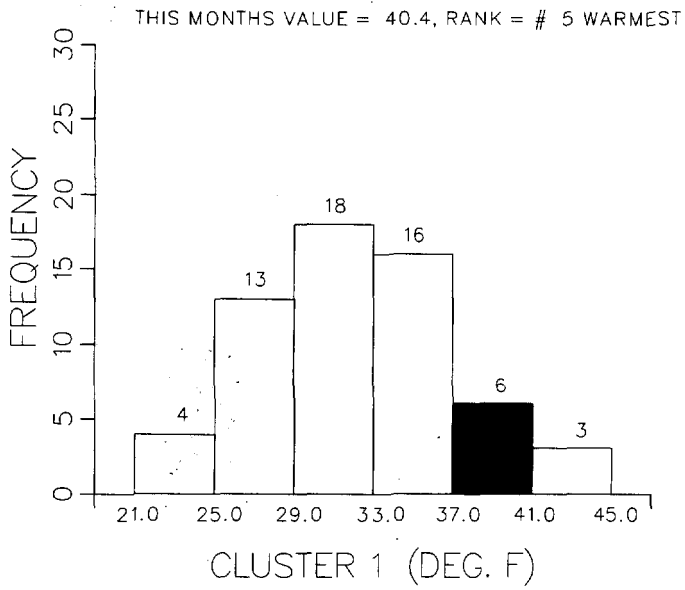
CLUSTER 4 -DIVISION(S):  
ALLEGHENY PLATEAU 08



MEAN MONTHLY TEMPERATURE FREQUENCY DISTRIBUTION  
 FOR PERIOD OF RECORD 1931-1990  
 FOR MONTH OF JANUARY  
 DELAWARE

CLUSTER 1 - DIVISION(S):  
 NORTHERN 01

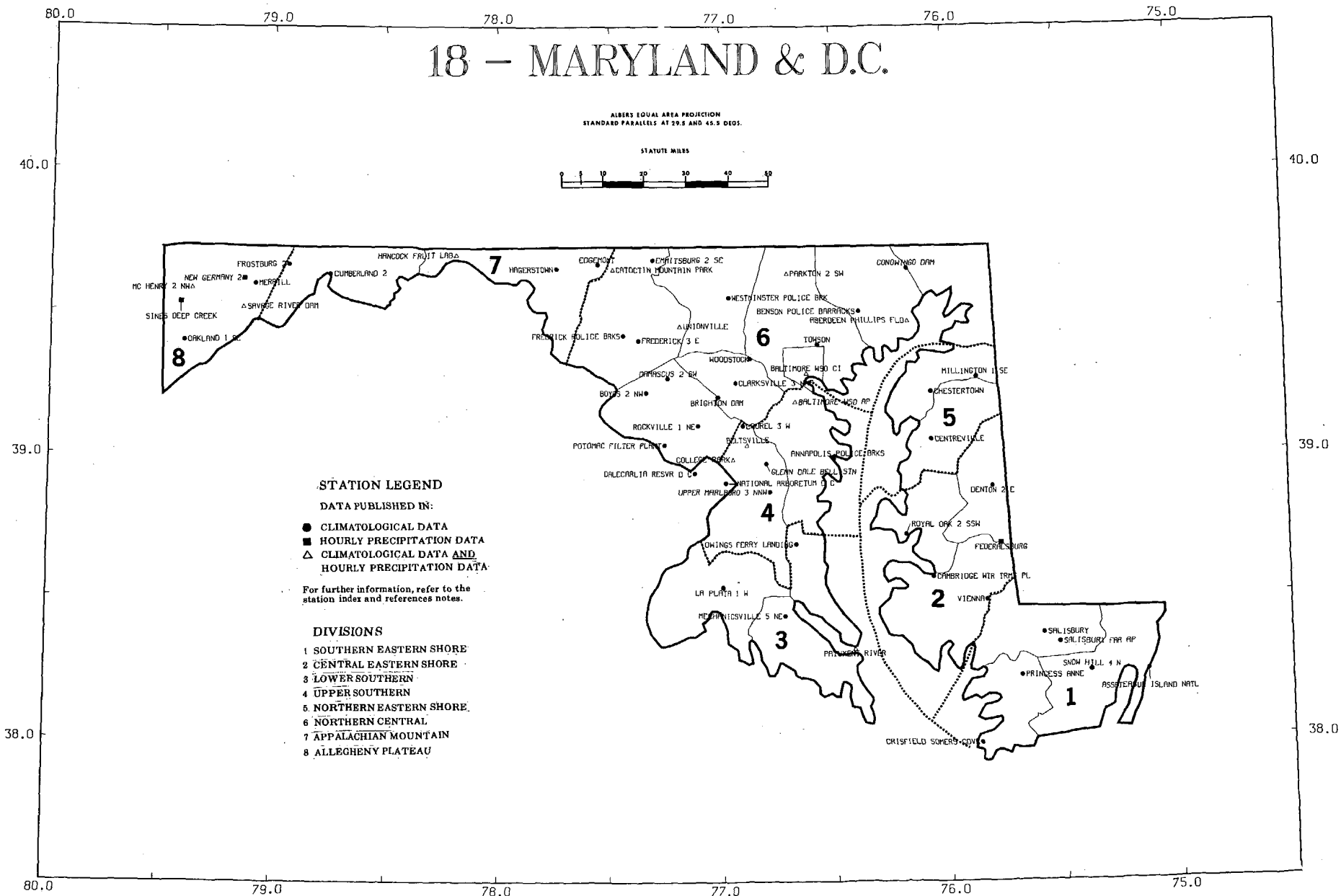
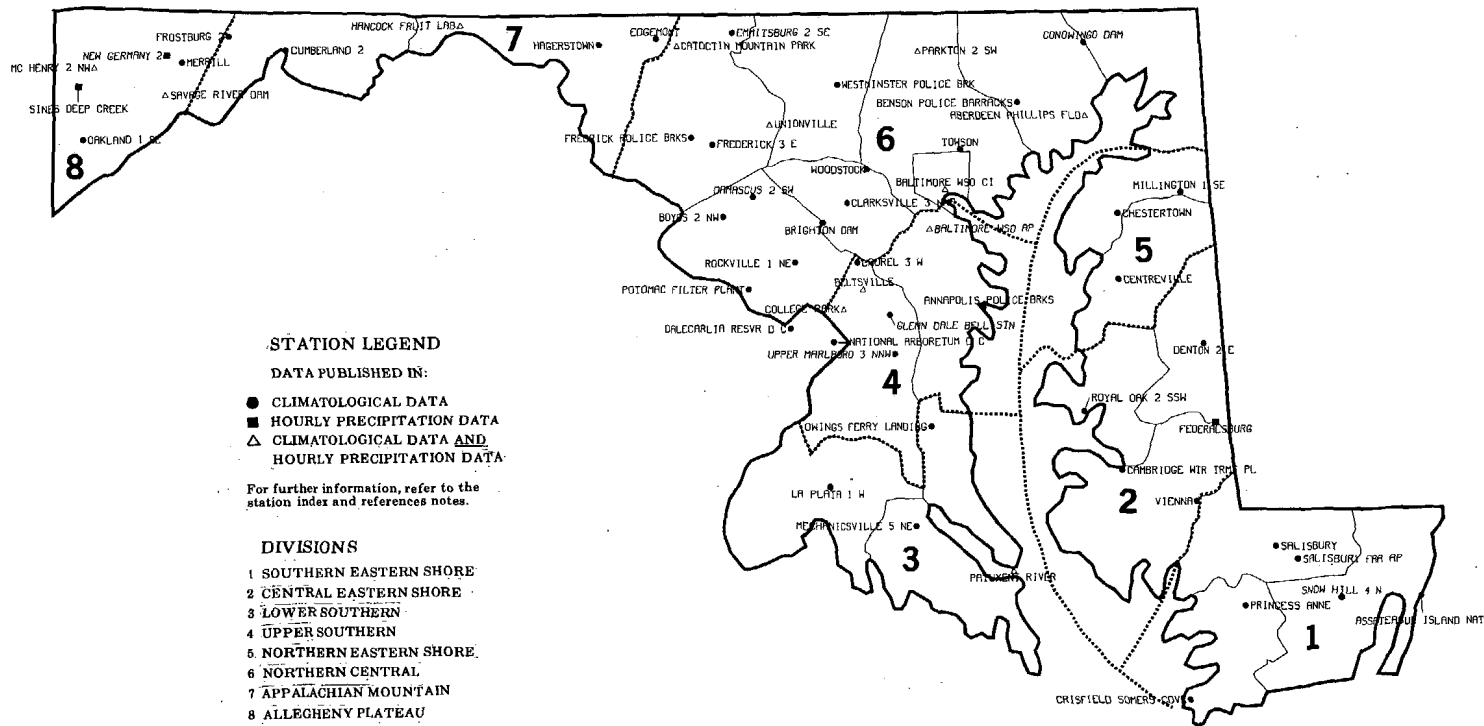
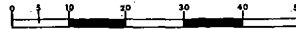
CLUSTER 2 - DIVISION(S):  
 SOUTHERN 02



# 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

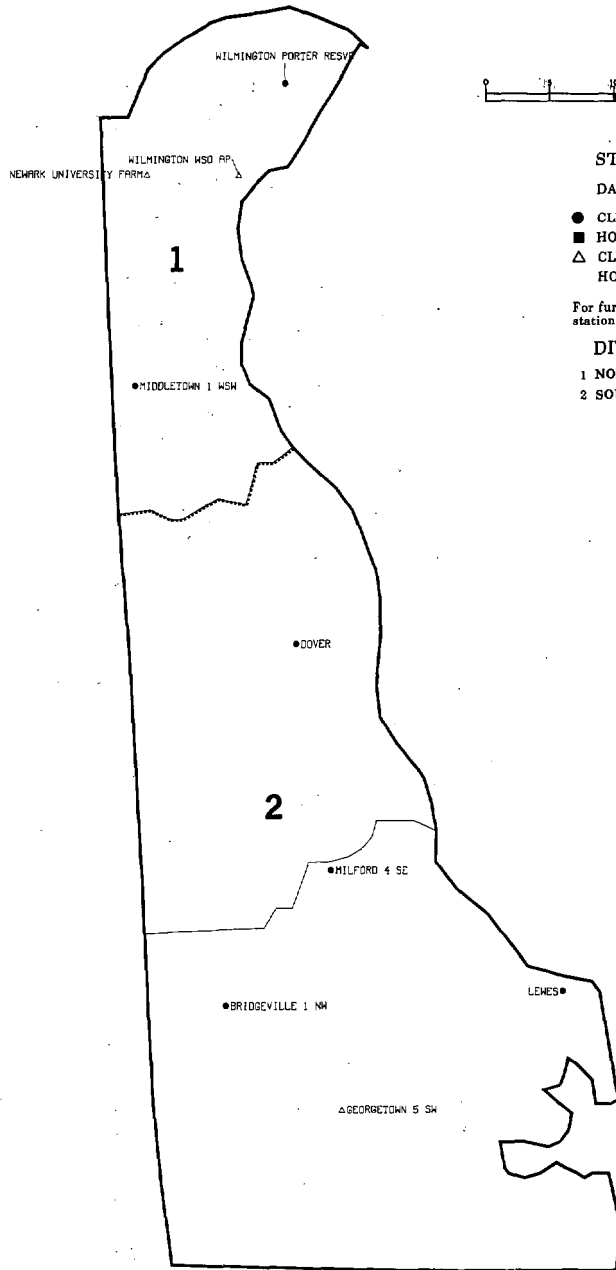
39.0

39.0

38.0 76.0

75.0

38.0



WILMINGTON PORTER RESV

NEWARK UNIVERSITY PARK  
WILMINGTON HSD AP

1

MIDDLETOWN 1 WSH

DOVER

2

HILFORD 4 SE

BRIDGEVILLE 1 NH

LEMES

GEORGETOWN 5 SH

### MONTHLY PRECIPITATION TOTALS

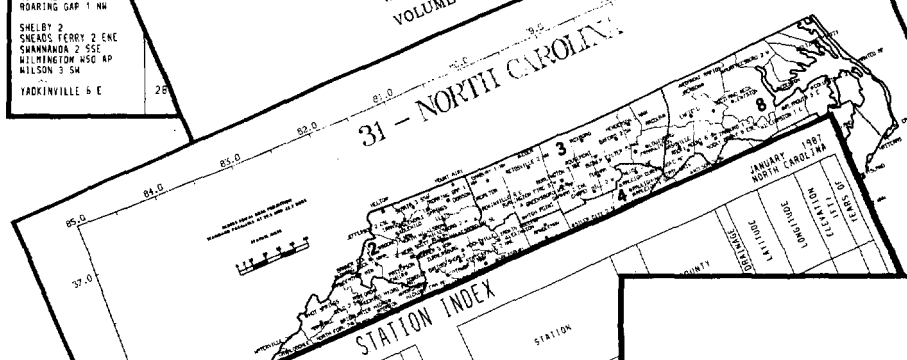
ANNUAL 1987  
NORTH CAROLINA

STATION	ANNUAL	MONTH											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
NORTH CAROLINA													
ASHEVILLE WSO AP	34.57	1.11	1.85	2.75	0.57	3.55				4.19	5.28	4.28	
ASHEVILLE	25.67	0.71	1.57	1.81	0.53	2.65				2.77	4.15	2.34	
ASHFORD	36.74E	1.20	2.70	2.90	0.54E					3.80	4.90	4.80	
BADIN			1.30	2.40	1.74E					2.40	4.10	2.90	
B EVERETT JORDAN DAM		1.70	1.50	3.50							1.70		
BOOMER 5 WSO		1.00	2.10										
BURLINGTON 3 WMC		0.80	1.92E										
CAPE HATTERAS WSO	48.86	5.75	1.50										
CARRHAGE 8 SE		1.70											
CATALDOCHEE		0.50											
CHARLOTTE WSO AP	25.91												
CLINTON 2 NE													
DALTON													
DOBSON													
EDEN													
ELLEN													
FAYE													
FRANKS													
GREENS													
GREENVIEW													
HELTON													
HOBOKEN													
LAKE LORE													
LAURINBURG													
LEXINGTON													
WOODSVILLE 2													
MOREHEAD CITY													
MOORE PLEASANT													
N WILKESBORO 12													
POKOTON 2 NE													
QUEBEC													
RALEIGH-DURHAM WSO													
ROANOKE RAPIDS													
ROARING GAP 1 NW													
SHELBY 2													
SNEADS FERRY 2 ENE													
SUNNANDA 2 SSE													
WILMINGTON WSO AP													
WILSON 1 SW													
YADKINVILLE 5 E													



# HOURLY PRECIPITATION DATA NORTH CAROLINA

DECEMBER 1987  
WITH ANNUAL SUPPLEMENT  
VOLUME 37 NUMBER 12



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# HOURLY PRECIPITATION DATA NORTH CAROLINA

JANUARY 1987

VOLUME 37 NUMBER 1



**HOURLY PRECIPITATION DATA** is published monthly and presents daily, hourly, and maximum short duration data for recording rain gage stations in each state except Alaska. Also included are a published station index and a locator map for the state. In addition to the regularly published data, the December publication contains a tabulation of monthly and annual total precipitation amounts as an annual supplement.

**SHELF STOCK** of the printed publication is maintained only for the most recent three years. Earlier years are available on microfiche or paper copies reproduced from microfiche. The data are also available in digital form - on magnetic tape and diskette.

For further information,  
call or write to the  
**NATIONAL CLIMATIC DATA CENTER**  
Federal Building, Asheville, N. C. 28801-2696  
Phone (704) 259-0682 or (704)-CLIMATE

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