



ISSN 0145-0549

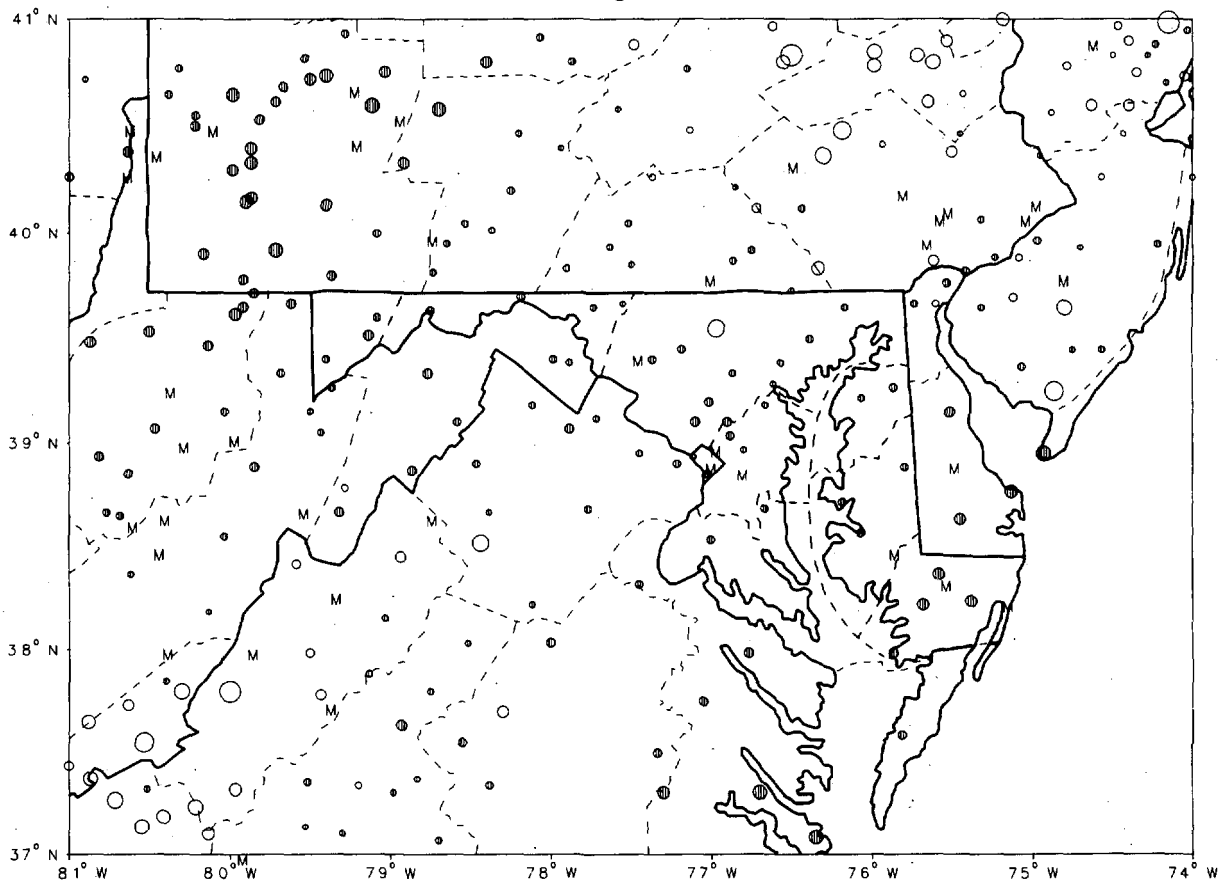
CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

MARCH 1989

VOLUME 93 NUMBER 3

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. Nadeau

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

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NATIONAL
ENVIRONMENTAL SATELLITE, DATA
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ASHEVILLE NORTH CAROLINA

TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND AND
DELAWARE
MARCH 1989

MARYLAND
 HIGHEST TEMPERATURE 91
 LOWEST TEMPERATURE 6
 GREATEST TOTAL PRECIPITATION 8.10
 LEAST TOTAL PRECIPITATION 2.56
 GREATEST 1 DAY PRECIPITATION 2.37
 GREATEST TOTAL SNOWFALL 10.2
 GREATEST DEPTH OF SNOW OR ICE 7

DELAWARE
 HIGHEST TEMPERATURE 85
 LOWEST TEMPERATURE 12
 GREATEST TOTAL PRECIPITATION 8.21M
 LEAST TOTAL PRECIPITATION 3.69
 GREATEST 1 DAY PRECIPITATION 2.60
 GREATEST TOTAL SNOWFALL 2.0
 GREATEST DEPTH OF SNOW OR ICE 3

MARCH 28
 MARCH 2

MARCH 24
 MARCH 1

MARCH 29
 MARCH 7

MARCH 24
 MARCH 7

BALTIMORE WSO CI R
 OAKLAND 1 SE
 SNOW HILL 4 N
 WESTMINSTER POLICE BRK
 SNOW HILL 4 N
 FROSTBURG 2
 MC HENRY 2 NW

DOVER
 NEWARK UNIVERSITY FARM
 MILFORD 4 SE
 WILMINGTON WSO ARPT R
 DOVER
 3 STATIONS
 GEORGETOWN 5 SW

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
MARCH 1989

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	1.0 OR MORE	.50 OR MORE	1.00 OR MORE
MARYLAND																								
SOUTHERN EASTERN SHORE 01																								
ASSATEAGUE ISLAND NATL SE																								
CRISFIELD SOMERS COVE	54.9	38.7	46.8	.9	77	22	8	558	11	0	1	9	0	6.15	2.01	1.56	24	.0	M	M	11	8	4	3
PRINCESS ANNE	56.7	36.7	46.7	1.7	83	22	11	571	6	0	1	11	0	7.00	3.01	1.96	24	.0	M	M	11	8	5	3
SALISBURY	56.6	36.3	46.5	1.5	83	22	9	582	16	0	1	15	0	7.32	3.10	2.15	24	.0	M	M	11	6	2	3
SALISBURY FAA AP	56.5	35.5	45.5	1.3	83	23	8	609	14	0	2	16	0	7.12	3.50	1.90	26	.0	M	T	9	5	5	3
SNOW HILL 4 N	56.5	36.2	46.4	1.4	83	23	8	579	11	0	2	13	0	8.10	3.50	2.37	24	.0	T	T	10	5	5	3
--DIVISIONAL DATA-->																								
CENTRAL EASTERN SHORE 02																								
CAMBRIDGE WTR TRMT PL	55.6	35.5	45.6	1.1	86	20	9	616	17	0	1	13	0	5.51	1.45	1.20	24	1.0	M	M	7	10	5	2
DENTON 2 E	55.9	32.7	44.3	2.2	82	20	9	647	16	0	1	16	0	5.11	1.19	1.84	24	2.0	M	M	2	7	9	4
ROYAL OAK 2 SSW	54.4	36.4	45.4	2.2	81	20	9	612	12	0	2	13	0	5.19	1.08	1.31	6	1.0	M	M	8	10	5	2
VIENNA																								
--DIVISIONAL DATA-->																								
LOWER SOUTHERN 03																								
LA PLATA 1 W	57.2	36.1	46.7	1.5	88	20	9	592	31	0	2	14	0	4.99	1.23	1.55	24	1.9	M	M	8	7	4	2
MECHANICSVILLE 1 E	56.2	34.8	45.5	1.5	88	20	9	617	20	0	2	14	0	5.57	.93	1.87	24	.5	M	M	8	9	4	2
OWINGS FERRY LANDING	56.9	34.4	45.2	1.6	88	20	9	630	20	0	2	15	0	4.47	.93	1.42	24	.0	T	T	7	7	3	2
PATUXENT RIVER	54.2	36.6	45.4	1.5	88	20	9	618	15	0	2	10	0	7.04	1.77	1.85	6	.0	T	T	12	6	6	2
--DIVISIONAL DATA-->																								
UPPER SOUTHERN 04																								
ANNAPOLIS POLICE BRKS	56.1	31.9	44.0	1.5	86	22	9	657	12	0	2	17	0	5.09	1.52	1.93	24	.0	M	M	1	8	9	4
BALTIMORE WSO AP	53.2	34.4	43.8	1.5	85	22	8	663	14	0	2	15	0	4.24	.52	1.25	6	.3	M	M	0	7	9	2
BELTSVILLE	53.5	33.3	43.4	1.5	84	20	9	671	10	0	1	15	0	4.68	1.19	1.20	24	.7	M	M	1	7	7	4
COLLEGE PARK	52.2	34.8	43.5	1.1	85	20	9	674	16	0	2	15	0	4.80	1.19	1.28	24	.0	M	M	1	9	7	4
DALECARLIA RESVR D C	56.6	28.9	42.8	2.1	87	20	9	707	11	0	2	21	0	4.20	.37	1.62	24	.0	M	M	0	2	7	6
GLENN DALE BELL STN	54.8	31.4	43.1	1.8	85	20	9	685	13	0	2	17	0	4.12	.42	1.35	24	.3	M	M	0	5	4	2
LAUREL 3 W	52.9	31.8	42.4	1.8	85	20	9	706	13	0	2	20	0	5.29	1.63	1.27	6	.3	M	M	0	9	3	2
NATIONAL ARBORETUM D C	53.5				85	22	9		0	0	3	1	0	3.49		1.20	24	.0	M	M	0	6	3	1
UPPER MARLBORO 3 NNW																								
--DIVISIONAL DATA-->																								
NORTHERN EASTERN SHORE 05																								
CHESTERTOWN	52.8	34.2	43.5	1.1	83	22	8	670	13	0	2	15	0	4.67	.69	1.31	24	.6	M	M	1	8	8	4
MILLINGTON 1 SE	53.8	34.1	44.0	1.2	82	22	8	661	16	0	2	14	0	4.86	1.16	1.65	24	.0	M	M	0	8	8	3
--DIVISIONAL DATA-->																								
NORTHERN CENTRAL 06																								
ABERDEEN PHILLIPS FLD	53.1	35.3	44.2	1.4	81	22	9	643	9	0	2	13	0	4.29	1.12	1.68	24	.0	T	T		4	3	1
BALTIMORE WSO CI	54.2	37.5	45.9	1.4	91	22	8	605	22	0	2	10	0	4.05	.12	1.19	24	.0	M	M		9	4	2
BENSON POLICE BARRACKS	55.5	32.0	43.6	1.5	86	22	8	668	12	0	2	15	0	5.19	1.15	1.74	24	.0	M	M	1	6	8	2
BOYDS 2 NW	55.9	33.5	43.5	1.5	86	22	8	675	16	0	2	15	0	5.01	1.15	1.49	24	.0	M	M	1	9	8	5
CATOCTIN MOUNTAIN PARK	48.1	29.7	38.9	1.1	82	22	8	818	8	0	2	21	0	4.74	.68	1.62	6	.3	M	M	3	10	8	3
CLARKSVILLE 3 NNE	54.7	31.6	43.2	1.1	85	22	8	684	15	0	2	17	0	5.40	.68	1.45	24	.0	M	M	1	8	7	5
CONOWINGO DAM	52.9	29.1	41.0	1.1	83	22	8	755	0	0	2	19	0	4.67	.68	1.36	24	.0	M	M	0	8	8	4
DAMASCUS 2 SW	52.1	33.0	42.6	1.1	83	22	8	703	13	0	2	16	0	4.97	.68	1.44	24	.6	M	M	1	8	10	2
EMMITSBURG 2 SE	52.2	31.4	41.8	1.1	82	22	8	721	9	0	2	17	0	4.06	.68	1.10	24	.0	M	M	5	6	9	2

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
MARCH 1989

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	TOTAL	SNOW SLEET		NO. OF DAYS			
									90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
FREDRICK POLICE BRKS	54.4	34.3	44.4		86	14	650	18	0	2	1	0	2	2.08		24	M	0	9+	5	2	0
MILLERS 4 NE	50.6	32.3	41.9		82	10	736	11	0	2	1	0	4.33		6	M	0	9+	7	2	0	
ROCKVILLE 1 NE	51.6	34.8	43.2	-.9	82	18	679	12	0	2	1	0	5.32	1.78	24	M	0	9+	10	3	1	
TOWSON	52.8	29.0	40.9		85	13	745	5	0	2	1	0	4.71		24	M	0	9+	6	3	1	
UNIONVILLE	53.2	30.2	41.7	.8	84	14	722	7	0	2	1	0	4.41	1.03	24	M	0	9+	7	2	0	
WESTMINSTER POLICE BRK	53.3	27.9	40.6		84	9	758	11	0	2	1	0	2.56	1.36	24	M	0	9+	7	2	0	
WOODSTOCK	53.8	32.7	43.3	-.2	85	15	682	14	0	2	1	0	4.64	.70	24	M	0	9+	7	4	1	
-- DIVISIONAL DATA -->			42.5	.2									4.56	.74				2.1				
APPALACHIAN MOUNTAIN 07																						
CUMBERLAND 2	54.8	31.6	43.2	1.1	86	17	684	16	0	2	1	0	4.85	1.24	7	M	4	9+	8	3	2	
FROSTBURG 2	46.3	27.7	37.0		78	10	864	4	0	2	1	0	5.28		6	M	10	9+	8	4	1	
HAGERSTOWN	52.0	32.1	42.1	.0	86	14	715	15	0	2	1	0	3.93	.55	6	M	2	9+	7	3	2	
HANCOCK FRUIT LAB	52.5	27.5	40.0	.0	89	13	774	7	0	2	1	0	4.72	1.23	7	M	5	8+	7	4	1	
-- DIVISIONAL DATA -->			40.6	-.4									4.70	1.04				5.3				
ALLEGHENY PLATEAU 08																						
MC HENRY 2 NW	48.9	27.5	38.2		81	10	829	6	0	6	2	0	5.15		6	M	4	7	1	7	3	2
OAKLAND 1 SE	51.8	26.2	39.0	2.6	79	6	817	4	0	2	2	0	5.61	1.19	6	M	4	6	1	10	3	1
SAVAGE RIVER DAM	50.1	28.0	39.1	2.3	83	12	797	0	0	2	2	0	5.43	2.05	7	M	2	10+	7	4	2	
-- DIVISIONAL DATA -->			38.8	3.0									5.40	1.19				3.3				
DELAWARE																						
NORTHERN 01																						
NEWARK UNIVERSITY FARM	52.8	32.1	42.5	.4	83	12	695	5	0	2	1	0	4.50	.84	24	M	0	1	7+	9	3	1
WILMINGTON WSO ARPT	51.2	32.9	42.1	.3	83	16	710	6	0	2	1	0	3.69	-.18	24	M	1	1	9+	6	2	2
WILMINGTON PORTER RSVR	50.0	33.0	41.5	.5	80	15	726	6	0	2	1	0	5.31	1.24	31	M	2	6	6	8	4	3
-- DIVISIONAL DATA -->			42.0	.0									4.50	.73				1.6				
SOUTHERN 02																						
DOVER	53.3	33.6	43.5	-.8	85	17	687	20	0	2	1	0	6.31	2.44	24	M	2	2	8+	7	5	2
GEORGETOWN 5 SW	52.5	33.4	43.0	-.5	83	20	683	6	0	2	1	0	6.77	2.80	24	M	0	3	7	9	5	3
GREENWOOD 2 NE	54.5	35.6	45.1		84	19	626	16	0	2	1	0	7.88		24	M	1	0	9+	10	6	2
LEWES	53.6	36.5	45.1	1.8	84	22	627	18	0	1	1	0	7.85	3.64	24	M	2	0	1	10	8	2
MILFORD 4 SE	53.7	35.2	44.5	.2	83	20	643	15	0	2	1	0	8.21		24	M	2	0	1	8+	9	8
-- DIVISIONAL DATA -->			44.2	.3									7.20	3.17				1.5				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
MARCH 1989

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MARYLAND																																
SOUTHERN EASTERN SHORE 01																																
ASSATEAGUE ISLAND NATL SE CRISFIELD SOMERS COVE	M 6.15				.10		.53	1.13					.30	.36		.15				.44		.41				1.56					.12	1.05
PRINCESS ANNE	7.00				.10	.03	.51	.97						.23	.31					*	*	1.05		.08	1.96	.02				.66	1.08	
SALISBURY	7.32	T		T	.10	.09	.53	1.22	T					.22	.10					.30	.10	.87	T	.05	2.15	T			.61	.98		
SALISBURY FAA AP	M 7.12			T	.16	.07	1.90	.02	T				.15	.05	.05	.02			.30		.03	.81		.51	1.62				.06	1.08	.29	
SNOW HILL 4 N CENTRAL EASTERN SHORE 02																																
CAMBRIDGE WTR TRMT PL DENTON 2 E	5.51				.07	.23	.58	.80						.12	.16					.55		.48			1.20				1.10	.22		
ROYAL OAK 2 SSW VIENNA	5.11				.06	.13	1.02	.50						T	T				.15	.33		.55			1.84	.01			.28	.24		
	5.15			T	.13	.21	1.31	.71						.13	.07				.53		T	.58		T	1.10	.01			.25	.12		
	M																															
LOWER SOUTHERN 03																																
LA PLATA 1 W MECHANICSVILLE 1 E	4.99				.11	.20	1.10	.83	T				.02	.09	.01			.35		.09	.58		.05	1.55	T					T	.01	
OHINGS FERRY LANDING PATUXENT RIVER	5.57			T	.13	.24	1.17	.70					T	.15	.06			.40		.07	.57		.02	1.87				.09	.10			
	4.47				.09	.16	1.03	T						.36	.01			.24		.06	.47			1.42	T			.04	.57			
UPPER SOUTHERN 04	7.04			T	.20	.17	1.85	.02					.31	.06	.03	.10		.52		.16	.59		.64	1.29				.46	.60	.04		
ANNAPOLIS POLICE BRKS	5.09				.37	.50	.18							.30				.20		.02	.69			1.93	.05				.50	.35		
BALTIMORE WSO AP BELTSVILLE COLLEGE PARK DALECARLIA RESVR D C GLENN DALE BELL STN																																
BALTIMORE WSO AP	4.24	R			T	.06	.23	1.25	.07				T	T	T			.23		.17	.31	.25		.24	1.22				.01	.19	.18	
BELTSVILLE	4.68		.04			.04	.95	.67												.17	.93	.01		1.20	.32				.04	.31		
COLLEGE PARK	M 4.80		.03			.06	1.00	.66							T				.13	.89			1.28	.30				T	.45			
DALECARLIA RESVR D C	4.20				.05	.23	.83	.32						.01				.02		.04	.63			1.62					.02	.37		
GLENN DALE BELL STN	4.12				T	.22	1.04	.51						.01	.01					T	.78			1.35	.03				.01	.37		
LAUREL 3 W NATIONAL ARBORETUM D C UPPER MARLBORO 3 NNW																																
LAUREL 3 W	5.29				.07	.32	1.27	.03						.01				.21		.73	.48		.46	1.20				.30	.21			
NATIONAL ARBORETUM D C	M 3.49					.06	.67							.02						.10	.70			1.20	.38				.36			
UPPER MARLBORO 3 NNW	M																															
NORTHERN EASTERN SHORE 05																																
CHESTERTOWN MILLINGTON 1 SE	4.67				T	.01	.20	1.19	.02					.01				.50	T	.35	.32		.07	1.31	T			T	.18	.51		
	4.86					.05	.20	1.09	.04									.36	.15		.85			1.65	.03				.19	.25		
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD BALTIMORE WSO CI	4.29				T	*	*	.91	.27					.03							T	.61		1.68	*	*	.01		T	.08	.73	
BENSON POLICE BARRACKS BOYDS 2 NW	4.05	R				.04	.24	1.10	.04					.03				.30		.35	.24		.17	1.19				.20	.15			
BRIGHTON DAM	5.19					.08	.20	1.05	.23						T			.22		.02	.50			1.74	T			.32	.83			
	5.01					.42	.50	.66										.39		.10	.71		.30	1.49				.74				
	5.30					.20	.50	.70				.20		T	T			.40		.60	.20		.30	1.30				.60	.30			
CATOCTIN MOUNTAIN PARK CLARKSVILLE 3 NNE CONOWINGO DAM DAMASCUS 2 SW EMMITSBURG 2 SE																																
CATOCTIN MOUNTAIN PARK	4.74						1.62	.22	.03					.01				.82		.10	.16			1.00	.02			.01	.40	.35		
CLARKSVILLE 3 NNE	5.40				.04	.32	.92	.73										.21		.04	.06	.79		1.45	.03			.02	.79			
CONOWINGO DAM	4.67				T	.12	.63	.65										.43			.20	.05		1.36	.01			1.11	.11			
DAMASCUS 2 SW	4.97			T	.08	.34	1.08	.20	T					T	.01			.39			.22	.61		.12	1.44	T		T	.22	.26		
EMMITSBURG 2 SE	4.06				.25	.10	1.06	.25							T			.30		.05	.32			1.10				.25	.38			
FREDRICK POLICE BRKS FREDRICK 3 E MILLERS 4 NE POTOMAC FILTER PLANT ROCKVILLE 1 NE																																
FREDRICK POLICE BRKS	M 2.08				.05	.32												.25		T	.50			.67				.05	.24			
FREDRICK 3 E	4.60		.02			.06	.98	.64	T						T					.20	.60			.82	.49			.02	.75			
MILLERS 4 NE	4.33				.02	.15	1.39	.18	T					T	T			.31			.08	.40		1.32	T			T	.08	.40		
POTOMAC FILTER PLANT	3.10			.04	.04	.24	.86	T							.06					.34			.16	1.25				.11	.11			
ROCKVILLE 1 NE	5.32			T	.11	.32	1.08	.01						.05	T	T		.14			.60	.40		.38	1.70			T	.04	.39	.10	
TOWSON UNIONVILLE WESTMINSTER POLICE BRK WOODSTOCK																																
TOWSON	4.71				.04	.27	.01	.01	.01			.01	.05	.49	.02			.24				.77	.02		1.87	.01			.02	.89		
UNIONVILLE	4.41				.05	.25	1.31	.24							.39					.05	.46			1.35				.02	.24			
WESTMINSTER POLICE BRK	2.56				.04	.22	.23	.23	T						.27						.08	.47		.87				.05	.10			
WOODSTOCK	4.64				.05	.27	.93	.24							.02			.35			.05	.72			1.21	.02			T	.09	.69	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
MARCH 1989

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 ISLAND NATL	07	MAX																																		
		MIN																																		
CRISFIELD SOMERS COVE	17	MAX	47	45	55	50	46	47	36	29	36	46	45	51	51	49	61	63	63	69	67		50	47	46	53	59	68	70	73	76	77	74	54.9		
		MIN	37	28	35	44	39	36	25	22	28	29	28	35	30	36	36	46	39	53	37	31	40	34	32	41	41	41	46	56	58	59	57	38.7		
PRINCESS ANNE	17	MAX	49	48	53	48	50	50	35	31	36	45	50	54	51	54	71	69	60	73	61	58	52	48	46	52	60	66	74	81	83	74	76	56.7		
		OBS																																		
		MIN	25	22	27	42	39	33	24	22	27	27	22	29	27	35	45	46	42	49	40	38	39	33	26	40	38	40	36	55	60	55	55	36.7		
		OBS																																		
SALISBURY	17	MAX	50	48	52	46	49	51	34	30	36	45	50	55	45	54	72	69	68	77	64	49	51	47	45	51	62	65	75	81	84	74	77	56.6		
		MIN	27	25	32	41	37	32	23	20	27	26	23	31	27	35	45	47	32	56	35	26	38	31	29	39	38	41	41	58	63	48	53	36.3		
SALISBURY FAA AP	MID	MAX	49	45	51	45	51	48	32	32	35	43	49	54	44	53	72	59	69	77	50	51	53	46	45	51	61	63	75	82	83	75	77	55.5		
		MIN	26	24	31	40	39	32	23	23	28	27	25	30	27	36	47	38	30	50	28	24	42	29	29	41	40	40	38	60	63	46	45	35.5		
		OBS																																		
SNOW HILL 4 N	18	MAX	50	46	49	45	47	49	35	33	35	41	47	55	49	53	70	69	67	77	73	49	58	48	46	53	61	61	70	80	83	79	75	56.5		
		MIN	24	23	30	42	38	35	24	23	28	26	24	28	28	37	45	45	29	54	36	24	40	33	28	41	39	38	39	56	60	50	55	36.2		
CENTRAL EASTERN SHORE	02																																			
CAMBRIDGE WTR TRMT PL	16	MAX	48	48	49	47	44	45	36	29	35	44	49	50	50	48	70	68	66	80		49	47	46	48	48	59	68	72	83	86	80	75	55.6		
		MIN	24	26	30	39	37	33	14	20	27	30	25	34	28	35	41	44	30	54	34	27	37	28	26	38	40	41	40	57	64	48	50	35.5		
DENTON 2 E	17	MAX	47	47	45	43	46	46	32		36	41	49	52	46	51	69	68	65	78	58	49	48	46	47	45	67	69	74	82	82	75	75	55.9		
		MIN	26	22	26	39	36	30	18	18	27	21	21	30	25	35	45	44	30	49	35	22	38	28	24	27	39	39	36	59		42	50	32.7		
ROYAL OAK 2 SSW	18	MAX	47	46	50	46	45	45	32	30	37	45	45	52	44	47	68	67	63	76	56	46	47	46	49	47	61	68	71	81	81	74	73	54.4		
		MIN	28	24	31	41	37	32	21	20	28	28	24	34	27	36	42	44	38	53	35	27	39	30	28	39	39	40	39	57	65	50	52	36.4		
VIENNA	18	MAX																																		
		MIN																																		
LOWER SOUTHERN	03																																			
LA PLATA 1 W	18	MAX	50	48	47	46	49	48	32	28	39	48	50	56	46	45	75	69	72	83	56	47	48	48	47	46	67	73	80	86	88	74	81	57.2		
		MIN	25	23	29	39	38	32	22	19	26	25	23	30	29	35	43	44	38	56	34	26	36	29	27	34	38	39	40	63	67	58	53	36.1		
MECHANICSVILLE 1 E	19	MAX	50	45	46	45	49	48	32	27	37	43	46	58	46	44	76	71	72	82	55	48	48	44	46	46	66	67	79	86	88	74	78	56.2		
		MIN	27	21	28	39	37	31	21	19	27	24	20	28	28	34	43	44	36	54	34	23	38	30	25	38	35	37	36	59	59	55	50	34.8		
OWINGS FERRY LANDING	17	MAX	48	47	45	44	47	47	32	27	38	45	49	56	46	44	75	73	71	81	56	46	48	48	47	45	65	68	77	85	85	74	74	55.9		
		MIN	24	21	21	38	36	31	21	19	19	26	21	29	27	34	43	43	35	53	32	24	37	29	28	37	35	38	38	59	67	51	50	34.4		
PATUXENT RIVER	MID	MAX	51	44	50	43	50	44	30	30	35	43	44	54	40	45	75	60	62	82	46	46	48	43	47	48	59	69	63	86	88	77	77	54.2		
		MIN	29	30	34	39	38	30	22	22	29	27	26	34	31	36	41	41	36	46	34	32	41	34	34	40	38	41	40	55	60	51	44	36.6		
UPPER SOUTHERN	04																																			
ANNAPOLIS POLICE BRKS	17	MAX	50	50	46	47	43	44	32	30	39	45	47	54	55	45	65	66	62	82	68	47	51	50	49	56	62	66	72	86	86	76	68	56.1		
		OBS																																		
		MIN	25	20	24	34	34	28	18	16	26	15	15	32	24	31	39	41	35	46	30	20	34	29	27	30	35	42	36	49	62	46	45	31.9		
		OBS																																		
BALTIMORE WSO AP	MID	MAX	45	46	43	44	46	45	26	29	38	47	47	52	42	45	74	58	71	80	44	47	48	47	47	43	65	68	72	85	81	66	57	53.2		
		MIN	24	24	28	38	38	26	21	19	25	29	22	29	27	34	45	40	35	43	31	26	38	29	29	35	36	44	41	58	62	49	41	34.4		
BELTSVILLE	08	MAX	38	45	48	44	43	46	36	30	46	47	47	52	52	43	51	73	58	72	79	44	46	48	46	47	44	65	71	77	84	80	58	53.5		
		OBS																																		
		MIN	23	22	25	34	36	34	23	14	23	23	21	27	27	31	37	41	37	48	32	24	35	27	24	34	35	41	40	49	66	49	49	33.3		
		OBS																																		
COLLEGE PARK	09	MAX	39	46	49	45	43	46	34	25	30	37	46	51	54	42		73	60	72		44	45	47	47	46	51	65	71	76	85	84	61	52.2		
		MIN	23	24	28	37	38	34	23	18	19	26	22	29	28	32	39	43	40	50	32	25	39	28	27	35	36	42	41	53	68	51	50	34.8		
DALECARLIA RESVR D C	17	MAX	47	49	45	45	47	47	31	29	38	47	53	55	48	45	76	76	73	82	58	47	48	48	47	47	65	73	77	87	84	73	67	56.6		
		MIN	19	18	23	34	30	26	7	12	20	17	18	25	24	28	36	38	27	41	26	21	29	24	23	31	32	35	50	60	47	45	28.9			
		OBS																																		

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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	
GLENN DALE BELL STN	16	MAX	48	49	49	44	43	46	30	27	38	49	48	52	55	45	53	75	69	80	43	47	49	48	47	50	67	76	85	85	81	67	54.8	
		MIN	20	18	22	36	35	29	23	17	22	19	18	25	24	32	41	41	32	36	31	19	35	21	22	41	33	36	35	58	56	48		47
LAUREL 3 W	MID	MAX	42	48	43	42	44	43	26	30	38	47	50	51	43	43	71	60	70	80	43	46	47	47	46	43	64	71	73	85	82	65	58	52.9
		MIN	25	28	26	31	31	18	14	14	19	26	28	29	28	28	39	38	39	37	28	32	36	23	23	31	31	45	44	61	58	42	34	
NATIONAL ARBORETUM, D C	08	MAX	40	49	50	46	43	47	31	28	30	40	48	51	56	45	49	75	60	72	77	45	47	48	47	49	44	66	67	77	85	76	69	53.5
		MIN																							23	36	35	41						
UPPER MARLBORO 3 NNW	08	MAX																															M	
		MIN																																M
NORTHERN EASTERN SHORE	05																																	M
CHESTERTOWN	23	MAX	44	47	45	44	45	42	25	30	36	44	49	51	45	49	68	59	67	78	45	49	48	44	49	44	62	66	75	83	80	63	62	52.8
		MIN	28	24	28	37	36	25	19	18	25	26	23	31	25	35	44	40	38	45	30	26	39	28	27	37	38	40	38	60	61	46	43	
MILLINGTON 1 SE	18	MAX	45	46	47	46	44	44	30	29	38	44	46	51	44	49	69	69	65	77	58	47	47	45	49	43	62	67	72	82	81	73	58	53.8
		MIN	24	21	27	39	35	29	19	17	24	23	21	31	24	34	44	43	33	56	34	23	38	28	26	37	38	39	36	59	64	45	46	
NORTHERN CENTRAL	06																																	M
ABERDEEN PHILLIPS FLD	16	MAX	44	44	44	42	39		30	30	37	44	47	48	41	45	66	66	65	77	56	45	48	48	49	49	61	67	70	81	81	75	53	53.1
		MIN	27	25	29	***	***		21	16	25	29	31	33	23	34	44	44	36	48	35	29	42	28	25	40	***	***	39	42	39	55	60	
BALTIMORE WSO CI	MID	MAX	46	43	44	42	45	43	23	30	38	48	47	52	42	46	76	63	70	82	46	48	49	48	51	44	70	69	73	91	84	68	59	54.2
MIN	30	30	33	37	36	23	18	17	25	31	31	35	26	36	45	45	43	45	35	35	40	32	34	36	41	55	49	60	68	49	44	37.5		
BENSON POLICE BARRACKS	17	MAX	46	50	45	44	41	42	32	30	42	49	50	52	48	45	71	68	67	81	59	46	50	47	52	49	66	72	72	86	81	75	54	55.2
		MIN	21	22	26	34	34	28	18	11	20	23	21	29	21	33	40	39	35	46	32	22	35	24	24	33	36	43	37	52	65	43	44	
BOYDS 2 NW	18	MAX	44	47	42	41	44	44	24	27	35	42	51	52	45	43	73	70	71	78	56	45	45	45	46	43	65	71	76	84	82	69	58	53.5
		MIN	21	24	29	33	35	23	18	14	18	25	25	28	25	34	41	37	37	53	28	25	35	26	28	33	36	48	44	60	63	47	45	
CATOCTIN MOUNTAIN PARK	17	MAX	37	42	41	37	35	41	20	24	35	41	46	44	40	37	43	73	53	64	72	36	40	46	50	42	38	66	73	82	71	60	62	48.1
		MIN	26	24	29	23	33	18	12	9	15	22	24	30	21	30	37	65	56	67	46						61							
CLARKSVILLE 3 NNE	17	MAX	45	48	48	44	45	45	29	28	36	45	52	51	48	45	72	72	70	81	58	46	48	46	47	46	65	71	75	85	80	70	56	54.7
MIN	18	19	22	37	36	29	20	16	22	18	18	26	24	35	42	39	28	54	30	20	37	22	20	34	32	34	35	51	67	47	48			
CONOWINGO DAM	MID	MAX	47	46	44	42	39	41	30	31	43	48	49	52	42	46	67	59	67	78	47	45	50	50	49	43	63	69	72	83	75	61	61	52.9
		MIN	20	22	24	33	32	25	17	13	20	22	19	27	20	32	41	32	32	40	25	21	34	25	23	33	35	39	34		51	41	40	
DAMASCUS 2 SW	19	MAX	43	47	41	41	43	43	23	26	35	43	51	50	43	42	72	67	71	78	46	43	45	44	45	40	64	70	75	83	77	66	57	52.1
		MIN	24	25	29	35	35	23	17	12	16	25	26	29	25	33	40	36	39	46	28	27	35	25	27	32	34	47	43	60	64	47	40	
EMMITSBURG 2 SE	17	MAX	42	44	42	40	42	42	22	26	36	40	47	47	47	43	72	68	70	76	59	41	45	44	47	46	66	67	73	82	80	70	53	52.2
		MIN	23	26	24	35	36	23	16	13	14	24	17	26	24	34	34	36	32	53	29	21	35	23	22	32	35	38	41	57	57	46	46	
FREDRICK POLICE BRKS	17	MAX	42	46	45	42	45	46	27	27	37	42	49	52	48	45	73	73	71	78	59	44	45	46	49	48	63	69	74	86	84	76	54	54.4
		MIN	26	27	28	37	36	25	16	14	23	25	23	30	30	34	42	38	37	50	30	25	34	27	26	32	38	45	44	62	64	49	45	
MILLERS 4 NE	18	MAX	40	44	40	39	41	41	22	26	35	40	46	45	39	42	72	67	68	76	54	41	43	41	48	43	62	65	71	82	77	66	53	50.6
		MIN	25	26	28	34	33	21	16	10	17	25	24	31	21	32	39	34	36	50	29	21	35	24	24	33	34	48	41	58	65	44	44	
ROCKVILLE 1 NE	17	MAX	44	46	43	41	44	43	24	28	36	44	49	52	43	44	72	57	69	77	42	44	45	44	45	42	63	69	74	82	75	63	57	51.6
		MIN	28	27	32	37	37	24	21	18	22	28	23	29	28	36	44	40	41	40	28	26	36	29	27	35	37	48	44	64	62	49	40	
TOWSON	18	MAX	44	45	43	43	44	44	28	23	31	42	46	50	44	43	72	71	66	78	57	45	47	45	48	46	64	67	70	85	81	69	55	52.8
		MIN	20	23	23	22	22	22	16	13	20	20	23	22	22	22	32	30	35	43	29	25	34	25	25	25	34	47	39	52	50	43	42	
UNIONVILLE,	18	MAX	44	47	42	43	44	45	25	28	36	42	49	49	44	45	73	68	72	77	55	43	45	43	49	47	63	68	75	84	80	66	57	53.2
		MIN	18	21	23	35	35	22	18	14	14	15	17	25	23	34	42	35	28	53	28	19	36	24	21	33	31	34	37	51	58	47	46	

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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	41	45	47	41	43	43	28	26	45	42	48	49	45	44	73	74	69	79	54	50	48	44	45	42	64	67	73	84	79	66	55	
		MIN	24	22	24	31	30	16	10	9	15	17	19	24	19	28	35	31	34	48	19	18	30	18	21	19	31	33	40	55	62	42	40	
WOODSTOCK	18	MAX	43	47	43	42	43	43	27	28	37	45	50	50	45	43	73	72	70	80	56	45	46	46	47	45	64	71	74	85	80	71	56	
		MIN	22	28	25	36	35	25	19	15	21	22	20	29	24	34	41	39	34	48	30	21	36	26	22	33	33	41	39	57	66	46	47	
APPALACHIAN MOUNTAIN	07																																	
CUMBERLAND 2	18	MAX	40	48	43	43	45	45	25	28	44	49	58	55	49	56	77	60	79	75	43	41	44	46	50	44	68	73	85	86	80	62	57	
		MIN	23	23	26	35	33	17	17	18	23	24	29	28	29	36	37	29	29	27	25	27	24	25	26	35	38	42	46	65	57	51	36	
FROSTBURG 2	07	MAX	37	30	37	35	36	51	30	17	20	34	42	48	43	40	47	69	51	73	64	32	41	33	37	42	40	59	66	78	78	64	60	
		MIN	20	17	17	26	29	30	12	12	10	18	23	26	25	24	31	30	29	37	20	19	25	17	18	25	29	40	39	47	60	55	50	
HAGERSTOWN	18	MAX	43	45	43	39	44	42	26	28	38	43	49	47	44	43	77	62	72	76	42	40	45	44	47	42	65	70	75	86	78	64	53	
		MIN	26	24	28	32	35	20	15	14	15	20	24	28	24	32	42	37	33	38	27	26	34	24	27	32	36	43	48	61	63	48	40	
HANCOCK FRUIT LAB	16	MAX	42	43	47	42	41	44	33	26	30	42	50	54	50	47	45	62	60	77	80	42	41	46	46	50	41	70	74	81	89	75	56	
		MIN	18	20	20	21	34	32	18	16	13	16	18	21	25	27	35	35	23	35	27	20	25	21	19	21	33	34	36	40	54	50	46	
ALLEGHENY PLATEAU	08																																	
MC HENRY 2 NW	08	MAX	44	32	41	44	44	56	32	18	22	40	45	59	39	42	60	67	52	73	61	32	47	31	40	44	41	60	69	81	81	61	59	
		MIN	18	13	13	30	30	31	11	10	10	16	23	31	23	25	35	26	26	40	18	17	27	15	17	25	30	40	43	53	56	52	48	
OAKLAND 1 SE	17	MAX	33	41	42	47	60	34	22	20	37	45	56	60	45	56	69	58	73	73	49	37	48	39	42	39	57	68	79	79	77	59	61	
		MIN	20	6	17	17	17	21	12	12	16	16	24	28	24	29	37	27	22	37	19	20	28	16	25	31	34	32	33	54	57	50	32	
SAVAGE RIVER DAM	08	MAX	42	34	44	40	40	49	34	22	25	45	47	52	41	46	51	70	55	76	67	35	41	36	44	48	45	63	69	83	80	66	64	
		MIN	12	16	16	24	33	32	15	15	15	21	22	27	27	29	33	32	27	30	25	22	29	20	23	27	32	35	36	39	49	54	51	
DELAWARE																																		
NORTHERN	01																																	
NEWARK UNIVERSITY FARM	17	MAX	43	46	44	43	43	42	32	31	38	44	50	51	44	47	69	61	70	78	58	49	47	47	49	44	62	68	67	83	77	60	51	
		OBS							42																									
WILMINGTON WSO ARPT	MID	MAX	43	45	44	42	42	42	24	31	38	43	45	51	38	47	69	57	70	78	42	46	48	46	50	41	62	67	64	83	77	62	50	
		MIN	26	26	29	37	35	24	18	16	23	25	22	28	20	35	42	39	36	41	28	26	36	26	27	37	38	44	39	50	61	43	42	
WILMINGTON PORTER RSVR	MID	MAX	41	43	43	40	41	41	24	31	37	42	44	48	39	47	68	55	66	75	45	44	47	44	48	40	61	66	65	80	76	61	48	
		MIN	27	27	30	35	32	23	17	15	21	28	25	29	22	35	42	42	38	40	30	22	36	27	27	36	37	44	38	54	61	42	42	
SOUTHERN	02																																	
DOVER	17	MAX	45	45	47	45	47	44	28	28	39	43	48	43	40	49	70	68	59	80	36	49	46	48	46	42	62	69	71	85	85	75	53	
		MIN	29	20	27	38	33	28	17	17	23	26	24	30	23	33	41	34	35	49	36	24	38	27	27	34	38	38	39	59	68	42	45	
GEORGETOWN 5 SW	08	MAX	39	47	47	49	44	49	38	25	30	34	44	52	53	43	54	70	55	61	76	43	50	49	45	48	47	62	62	74	80	83	73	
		OBS																																
GREENWOOD 2 NE	18	MAX	26	22	27	30	38	37	22	20	22	25	22	26	26	31	38	44	34	41	34	23	38	30	26	36	38	39	35	50	61	46	49	
		MIN	46	48	46	43	47	46	32	29	35	42	48	51	44	51	69	68	68	77	57	49	47	44	47	46	61	64	75	82	84	72	72	
LEWES	17	MAX	47	43	42	41	47	48	33	30	33	37	43	47	42	46	71	71	68	78	62	49	50	44	45	45	61	61	66	82	84	71	75	
		MIN	27	29	30	39	36	31	22	22	27	31	28	31	29	35	40	40	37	55	35	26	39	31	34	39	39	42	40	59	65	44	48	
MILFORD 4 SE	17	MAX	47	42	44	42	47	47	32	29	34	42	42	53	44	47	71	68	67	78	61	49	48	45	46	44	60	58	74	81	83	66	74	
		OBS																																
		MIN	27	24	27	38	36	31	21	20	29	27	23	30	27	35	40	43	35	55	35	25	39	29	27	39	38	40	35	58	63	45	49	
		OBS																																

SEE REFERENCE NOTES FOLLOWING STATION INDEX

SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND
DELAWARE
MARCH 1989

STATION	DAY OF MONTH																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	30	
MARYLAND																																
SOUTHERN EASTERN SHORE 01																																
SALISBURY FAA AP						1.4	.3	T																								
SNOW HILL 4 N							.3	T																								
CENTRAL EASTERN SHORE 02																																
CAMBRIDGE WTR TRMT PL							1.0																									
DENTON 2 E							2.0																									
ROYAL OAK 2 SSW							1.0																									
LOWER SOUTHERN 03																																
LA PLATA 1 W						1.1	.8	T																								
MECHANICSVILLE 1 E							.5																									
OWINGS FERRY LANDING																																
PATUXENT RIVER																																
UPPER SOUTHERN 04																																
ANNAPOLIS POLICE BRKS																																
BALTIMORE WSO AP							.1	.2																								
BELTSVILLE							.7																									
COLLEGE PARK																																
GLENN DALE BELL STN							.3	.3																								
NORTHERN EASTERN SHORE 05																																
CHESTERTOWN							.3	.3																								
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD																																
BENSON POLICE BARRACKS							1.5	.2																								

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
MARCH 1989

STATION		DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	30
BOYDS 2 NW	SNOWFALL						-	-																								
	SN ON GND						T	1	1	1																						
CATOCTIN MOUNTAIN PARK	SNOWFALL					2.5	.5	3.0														.3										
	SN ON GND					-	3	-	3	3	2	1	1	1								-										
CLARKSVILLE 3 NNE	SNOWFALL						.3	.8																								
	SN ON GND						T	1	1	T																						
DAMASCUS 2 SW	SNOWFALL						.3	.3	T											T												
	SN ON GND	T					T	1	T	T	T	T	T	T							T		T									
EMMITSBURG 2 SE	SNOWFALL					5.0	2.0																									
	SN ON GND					5	4	4	4	3	3	2	1																			
FREDRICK POLICE BRKS	SNOWFALL						-	-																								
	SN ON GND						-	-	2	2	T	T																				
MILLERS 4 NE	SNOWFALL						.7	1.5	T											T												
	SN ON GND						1	2	2	2	1	1										T		T		T						
ROCKVILLE 1 NE	SNOWFALL						.2	.1																								
	SN ON GND						T	T	T	T																						
WESTMINSTER POLICE BRK	SNOWFALL					1.0	T	T	T	T	T																					
	SN ON GND					1	1	1	T	T	T	T																				
WOODSTOCK	SNOWFALL						T	1.0																								
	SN ON GND							1	1	1																						
APPALACHIAN MOUNTAIN 07																																
CUMBERLAND 2	SNOWFALL							4.0	T																							
	SN ON GND							4	4	4	2	1	1																			
FROSTBURG 2	SNOWFALL		T		T		T	6.0	1.5												1.0	T	1.0	T		.2	.5					
	SN ON GND	3	2	2	2	1	T	5	6	5	5	4	3	2	2	1	T			1	1	T	T		T							
HAGERSTOWN	SNOWFALL					1.0	1.0																									
	SN ON GND					1	1	2	2	2	1	T																				
HANCOCK FRUIT LAB.	SNOWFALL							5.0																								
	SN ON GND							5	5	4	4	2	T	T																		
ALLEGHENY PLATEAU 08																																
MC HENRY 2 NW	SNOWFALL							2.0	T												1.0		1.0	T								
	SN ON GND	7	6	4	3	1		2	2	2	2	2	1	1	T					1	1	1	1	T								
MERRILL	SNOWFALL							4.1																								
	SN ON GND							4	3	2	1												1.0									
OAKLAND 1 SE	SNOWFALL							3.0	1.0																							
	SN ON GND							-	3	3	1	T																				
SAVAGE RIVER DAM	SNOWFALL							2.0																								
	SN ON GND							2	T	2	2	2	1	1							T	T	T	T								
DELAWARE																																
NORTHERN 01																																
NEWARK UNIVERSITY FARM	SNOWFALL							-	-																							
	SN ON GND							1	1																							
WILMINGTON WSO ARPT	SNOWFALL							1.2	T													T										
	SN ON GND	T						1	1	1	T																					
	WTR EQUIV																															

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

SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND
DELAWARE
MARCH 1989

STATION		DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	30
WILMINGTON PORTER RSVR	SNOWFALL						2.0	T																								
	SN ON GND						2	-																								
SOUTHERN 02																																
DOVER	SNOWFALL							2.0																								
	SN ON GND							2		2	1																					
GEORGETOWN 5 SW	SNOWFALL																															
	SN ON GND									1	1	1																				
GREENWOOD 2 NE	SNOWFALL							1.0																								
	SN ON GND	T						1		1	1	T	T									T										
MILFORD 4 SE	SNOWFALL																															
	SN ON GND							T																								

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

STATION INDEX

MARYLAND AND
DELAWARE
MARCH 1989

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	001933	06	HARFORD	39 28	76 10W	57	16	16		C	H	ROSS AVIATION INC	
ANNAPOLIS POLICE BRKS	001933	04	ANNE ARUNDEL	38 59	76 30W	25	17	17		H	H	ANNAPOLIS POLICE BRKS	
ASSATEAGUE ISLAND NATL	003355	01	WORCESTER	38 14	75 8W	7	07	07		H	H	NATIONAL PARK SERVICE	
BALTIMORE WSO AP	004650	04	ANNE ARUNDEL	39 11	76 40W	196	MID	MID		C	C	NATL WEATHER SERVICE	
BALTIMORE WSO CI #	004700	06	BALTO CITY	39 17	76 37W	91	MID	MID		C	C	OCMI COMMANDING OFFICER	
BELTSVILLE	070000	04	PRN GEORGES	39 2	76 53W	120	08	08		O	B	C S DEPT OF AGRICULTURE	
BEYONDS POLICE BARRACKS	073206	06	HARFORD	39 30	76 23W	365	17	17		H	H	MARYLAND STATE POLICE	
BOYDS 2 NW	103220	06	MONTGOMERY	39 13	77 20W	580	18	18		H	H	HUNTER F STALEY	
BRIGHTON DAM	112506	06	MONTGOMERY	39 12	77 1W	330		MID				WASH SUB SANY COMM	
CAMBRIDGE WTR TRMT PL	138502	02	DORCHESTER	38 34	76 4W	55	16	16		H	H	WASTEWATER TRTMT PLANT	
CATOCTIN MOUNTAIN PARK	153006	06	FREDERICK	39 39	77 29W	1610	17	17		C	H	CATOCTIN MOUNTAIN PARK	
CHESTERTOWN	175005	04	KENT	39 13	76 4W	40	23	23		H	H	THOMAS W ELIASON JR	
CLARKSVILLE 3 NNE	186220	06	HOWARD	39 15	76 56W	365	17	17		C	H	UNIVERSITY OF MARYLAND	
COLLEGE PARK	199505	04	PRN GEORGES	38 59	76 57W	90	09	09		C	H	UNIVERSITY OF MARYLAND	
CONOWINGO DAM	200600	06	HARFORD	39 39	76 10W	40	MID	MID				SUSQUEHANNA ELECTRIC CO	
CRISFIELD SOMERS COVE	222150	01	SOMERSET	37 59	75 52W	8	17	17				SOMERS COVE MARINA	
CUMBERLAND 2	228207	07	ALLEGANY	39 38	78 45W	730	18	07		H		TIMOTHY B THOMAS	
DALECARLIA RESVR D C	232504	04		38 56	77 7W	146	17	17				U S CORPS OF ENGINEERS	
DAMASCUS 2 SW	233355	06	MONTGOMERY	39 16	77 14W	720	19	19		H		RICHARD W SCHWERDT	
DENTON 2 E	252302	02	CAROLINE	38 53	75 48W	50	17	17		H		ARTHUR REINHOLD	
EDGEMONT	227700	07	WASHINGTON	39 40	77 33W	905		07				JOHN W HARNE	
EMMITSBURG 2 SE	229006	06	FREDERICK	39 41	77 18W	416	17	17		H		MRS LUCILLE K BEALE	
FREDRICK POLICE BRKS	333480	06	FREDERICK	39 25	77 26W	380	17	17		H		MARYLAND STATE POLICE	
FREDERICK 3 E	333550	06	FREDERICK	39 24	77 22W	385		07				MISS I MARY STALEY	
FROSTBURG 2	341507	07	ALLEGANY	39 40	78 56W	2170	07	07		H		LEE K CLOSE	
GLENN DALE BELL STN	367504	04	PRN GEORGES	38 58	76 48W	150	16	16		H		USDA PLT INTRODUCT STN	
HAGERSTOWN	397507	07	WASHINGTON	39 39	77 44W	660	18	18		H		HAGERSTOWN RESERVOIR	
HANCOCK FRUIT LAB	403007	07	WASHINGTON	39 42	78 11W	428	16	16		C	H	SHARPSBURG RESEARCH C	
LA PLATA 1 W	508003	03	CHARLES	38 32	77 0W	140	18	18		H		C RUSSELL LEVERING	
LAUREL 3 W	511104	04	PRN GEORGES	39 6	76 54W	400	MID	MID				WASH SUB SANY COMM	
MC HENRY 2 NW	583220	08	GARRETT	39 35	79 22W	2680	08	08		C	H	JOSEPH F JOHENNING	
MECHANICSVILLE 1 E	586503	03	ST MARYS	38 27	76 41W	100	19	19		C	H	SANDRA J HASTING	
MERRILL	589408	08	GARRETT	39 36	79 5W	1790		09		C	H	DELWOOD E MERRILL	
MILLERS 4 NE	593406	06	CARROLL	39 43	76 48W	860	18	18		C	H	ROBERT P MILLER	
MILLINGTON 1 SE	598505	05	KENT	39 16	75 52W	30	18	18				HOWARD L HARVEY	
NATIONAL ARBORETUM D C	635004	04		38 54	76 59W	50	08	08		H		U S NATL ARBORETUM	
OAKLAND 1 SE	662200	08	GARRETT	39 24	79 24W	2420	17	17		H		BEA J CROSCO	
OWINGS FERRY LANDING	677003	03	CALVERT	38 41	76 40W	160	17	17		H		JAMES C RASMUSSEN	
PATUXENT RIVER	691503	03	ST MARY'S	38 20	76 25W	38	MID	MID		C	H	NAVAL WEATHER SERVICE	
POTOMAC FILTER PLANT	727220	06	MONTGOMERY	39 2	77 15W	270		08				POTOMAC WATER FILT PLT	
PRINCESS ANNE	733001	01	SOMERSET	38 13	75 41W	20	17	17				UNIVERSITY MARYLAND EAST	
ROCKVILLE 1 NE	770506	06	MONTGOMERY	39 6	77 6W	440	17	17		H		WASH GAS & LIGHT CO	
ROYAL OAK 2 SSW	780602	02	TALBOT	38 43	76 11W	10	18	18		H		JOHN L SWAINE JR	
SALISBURY	800001	01	WICOMICO	38 22	75 35W	10	17	17				CITY OF SALISBURY	
SALISBURY FAA AP #	800501	01	WICOMICO	38 20	75 31W	48	MID	MID		H		FAA	
SAVAGE RIVER DAM	806508	08	GARRETT	39 31	79 8W	1495	08	08		O	B	C	U S CORPS OF ENGINEERS
SNOW HILL 4 N	838001	01	WORCESTER	38 14	75 23W	28	18	18		H		CURTIS E SHOCKLEY	
TOWSON	887706	06	BALTIMORE	39 23	76 34W	390	18	18				BENDIX FRIEZ	
UNIONVILLE	903006	06	FREDERICK	39 27	77 11W	430	18	18		C		CAROLINE R VON EIFF	
UPPER MARLBORO 3 NNW	907004	04	PRN GEORGES	38 52	76 47W	98	08	08		O	B	C	TOBACCO EXP FARM
WIENNA	914002	02	DORCHESTER	38 29	75 50W	12	18	18				DELMARVA POWER & LIGHT	
WESTMINSTER POLICE BRK	944006	06	CARROLL	39 33	76 58W	765	17	17		H		MARYLAND STATE POLICE	
WOODSTOCK	975006	06	BALTIMORE	39 20	76 52W	460	18	18		H		JOHN A HILTZ	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
MARCH 1989

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	000	KENT	39 39	75 31W	30	17	17		H	STATE DIV OF HIGHWAYS UNIV OF DEL SUBSTATION DANIEL M SWARTZENTRUBER BOARD OF PUBLIC WORKS INACTIVE 09/01/88 DAVID S SCHLOTT UNIV OF DEL AGRIC FARM NATL WEATHER SERVICE WATER DEPARTMENT
GEORGETOWN 5 SW	35700	000	SUSSEX	38 38	75 27W	45	08	08	08	C	
GREENWOOD 2 NE	35950	000	SUSSEX	38 50	75 35W	45	18	18		H	
LEWES	53200	000	SUSSEX	38 46	75 8W	15	17	17			
MIDDLETOWN 3 E	58520	000	NEW CASTLE	39 27	75 40W	55	17	17			
MILFORD 4 SE	59150	002	SUSSEX	38 54	75 28W	30	17	17		H	
NEWARK UNIVERSITY FARM	64100	001	NEW CASTLE	39 40	75 44W	90	17	17	17	C	
WILMINGTON WSO ARPT	95950	001	NEW CASTLE	39 40	75 36W	79	MID	MID		H J	
WILMINGTON PORTER ASVR	96050	001	NEW CASTLE	39 46	75 32W	274	MID	MID		H	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

MARYLAND AND
DELAWARE
MARCH 1989

DEFINITIONS

STATION NAMES: Name of the city, town or locality. Figures and letters following the station names indicate the distance in miles and direction from the post office or town community center.

DIVISIONS: Areas within a state of similar climatological characteristics. Division averages are calculated using data from stations that record both temperature and precipitation (ie: not precipitation alone).

NORMALS: The average value of the meteorological element over a time period. Effective 1 January 1983, the averaging period is 1951 to 1980. The normals for National Weather Service localities have been adjusted so as to be representative for the current observation site.

MONTHLY DEGREE DAY TOTALS: One heating (cooling) degree day is accumulated for each whole degree that the daily mean temperature is BELOW (ABOVE) 65 degrees Fahrenheit.

PRECIPITATION: Values shown in hundredths of inches are water equivalent totals, i.e. total of liquid and melted frozen precipitation. In the "MONTHLY SUMMARIZED DATA" table the total snow and sleet values shown in tenths of inches are unmelted amounts. The max. depth on ground values of snow and sleet shown in whole inches are cumulative unmelted amounts. The no. of days with .10, .50, 1.00 or more refers to water equivalents.

TEMPERATURE: Original and edited temperature values are given in the Daily Temperature Table. Edited values are produced when an original value is missing or when surrounding stations indicate a suspect original value. When a line labeled OBS is present and contains either a daily temperature (suspect) or *** (missing), the temperature appearing directly above, on the line labeled MAX or MIN, is an edited value. Summary temperature information (averages, departures, extremes, monthly degree day totals) is based on the values labeled MAX/MIN.

WIND: (As shown in "Evaporation and Wind" table) The total wind movement in miles over the evaporation pan as determined by an anemometer recorder located 6-8 inches above the pan.

SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

Thermometers located in a rooftop shelter.
// Rain Gage equipped with a windshield.
AR Observation made "after rain" has occurred.
C Station is equipped with recording rain gage (R) but values in this bulletin are from a non-recording rain gage unless indicated by an R.
G Observations appear in "Soil Temperatures" table.
H Observations appear in "Snowfall and Snow on Ground" table.
J Station also published as a Local Climatological Data publication.
MID Observation time is midnight.
MO Rain gage read once monthly, usually the last day.
OC Rain gage readings vary from a few weeks to several months.
R Amounts from recording rain gage.
SR Observation time near sunrise.
SS Observation time near sunset.
VAR Observation time varies.
WI Rain gage read weekly or irregularly.
WM Rain gage read weekly and last day of month.

SYMBOLS AND LETTERS USED IN THE DATA TABLES

(DAILY DATA ARE FOR THE 24 HOURS IMMEDIATELY PRECEDING OBSERVATION TIME.)

BLANK entries in the "Monthly Summarized Data" table indicate no record. BLANK entries in the "Daily Precipitation" and "Snowfall and Snow on Ground" tables indicate zero.

BLANK entries in the "Daily Temperature" table indicate a missing record where an edited value could not be determined. (See *** below)

- No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.

+ Precipitation or temperature extremes occurred on one or more previous dates during the month.

*** Missing original temperature which has been estimated during edit.

* Rain gage not read. Precipitation is included in the amount following the asterisks. Time distribution not known. A * preceding the monthly total indicates precipitation amount is being carried forward to next months total, and may include amounts from the previous month(s).

// Rain gage equipped with a windshield.

A Amount of precipitation is the total of observer's entries for the current month. It may include precipitation that occurred during the previous month. Refer to earlier bulletin to determine date of last reading. (HAWAII stations)

B Adjusted monthly value (estimated), (1-7 missing values for wind and evaporation).

M Insufficient or partial data. M is appended to average and/or total values computed with 1-9 daily values missing. M appears alone if 10 or more daily values are missing, (8 or more for wind and evaporation).

R Amounts from recording rain gage.

T Trace. An amount too small to measure.

V Includes total for previous month(s). (See * above)

Seasonal Tables: Monthly and seasonal snowfall and heating degree days for the 12 months ending with the June data are published in the July issue of this bulletin. Cooling degree days for the calendar year are published in the "Climatological Data Annual Summary".

The graphic displays appearing in this publication were first produced for the January 1987 data month. The types of graphs and the information they portray may vary from month to month and from state to state in order to highlight climatic features of state, regional, and seasonal interest. Some graphs present information for "clusters". A cluster is a group of up to four (4) adjacent divisions that comprise an area of similar climate.

Information concerning the history of changes in locations, exposure, etc. of substations is kept on file at the National Climatic Data Center. Historical information for regular National Weather Service Offices may be obtained from the "Local Climatological Data" annual publication. The contents of this publication may be reprinted or otherwise used freely, with proper credit to the National Climatic Data Center. The data are also available in digital form on magnetic tape and diskette.

SUBSCRIPTION, PRICE AND ORDERING INFORMATION AVAILABLE FROM:

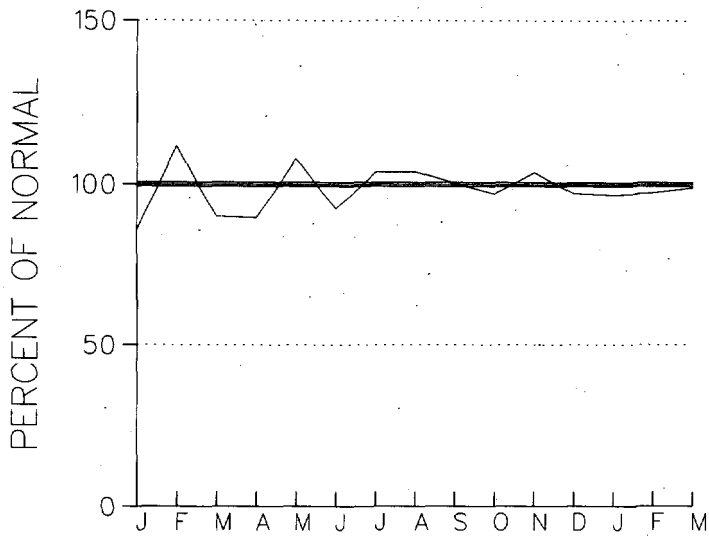
NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, NC 28801-2696

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

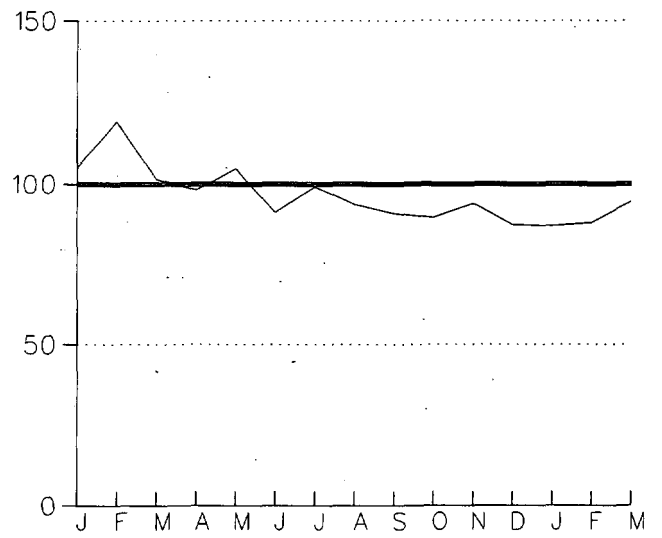
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE LAST 15 MONTHS
ENDING MARCH 1989
DELAWARE

CLUSTER 1 - DIVISION(S):
NORTHERN 01

CLUSTER 2 - DIVISION(S):
SOUTHERN 02



CLUSTER 1

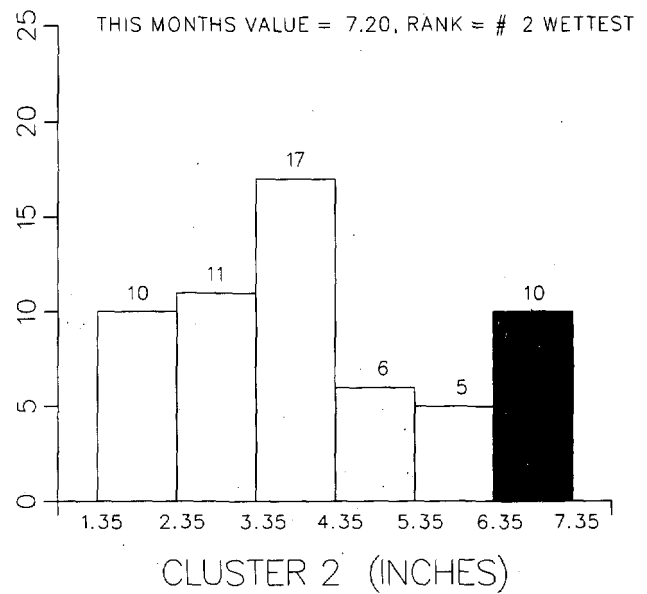
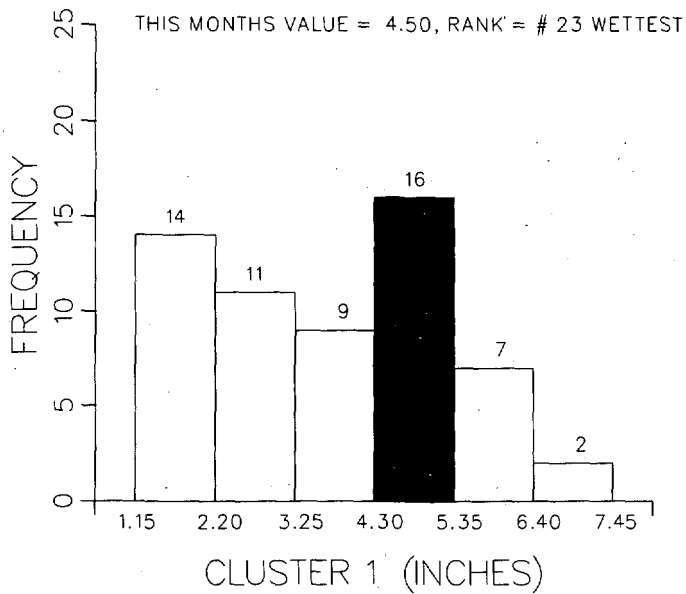


CLUSTER 2

MEAN MONTHLY PRECIPITATION FREQUENCY DISTRIBUTION
 FOR PERIOD OF RECORD 1931-1989
 FOR MONTH OF MARCH
 DELAWARE

CLUSTER 1 -DIVISION(S):
 NORTHERN 01

CLUSTER 2 -DIVISION(S):
 SOUTHERN 02



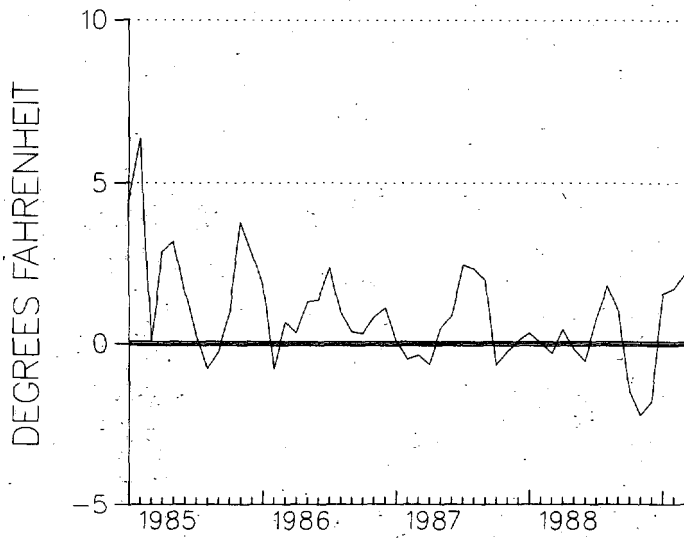
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)
 THREE MONTH RUNNING MEAN
 FOR THE 51 MONTHS ENDING WITH MARCH 1989 DATA
 MARYLAND

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

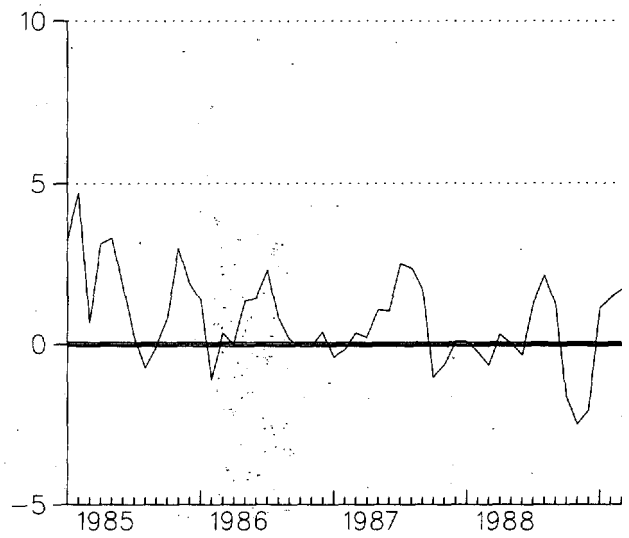
CLUSTER 2 - DIVISION(S):
 UPPER SOUTHERN 04
 NORTHERN EASTERN SHORE 05

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

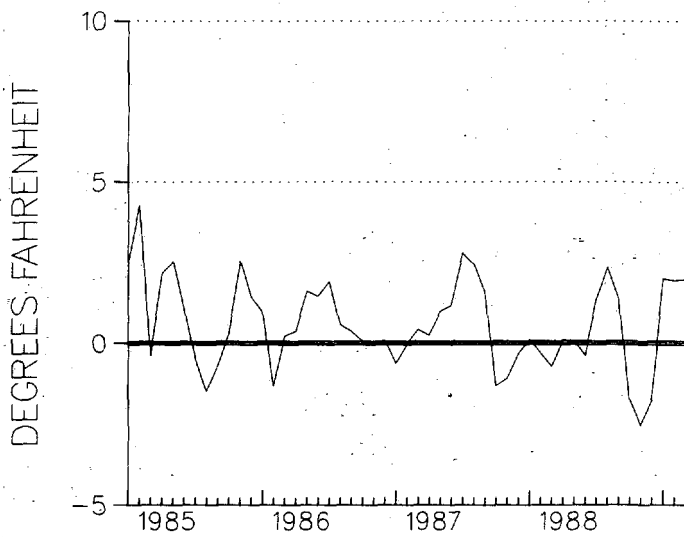
CLUSTER 4 - DIVISION(S):
 ALLEGHENY PLATEAU 08



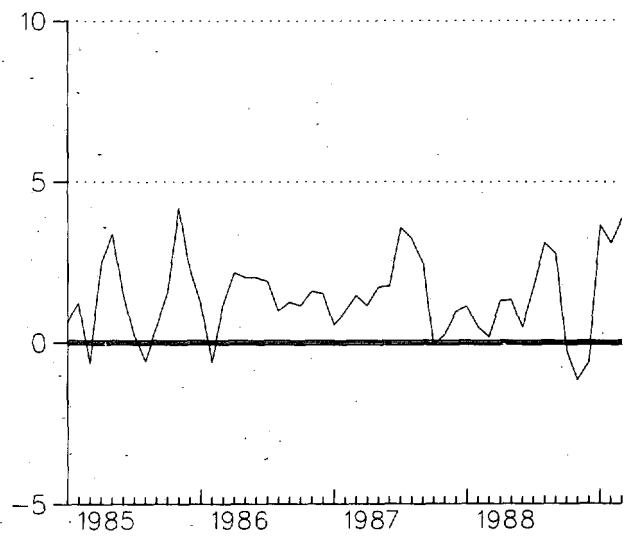
CLUSTER 1



CLUSTER 2



CLUSTER 3



CLUSTER 4

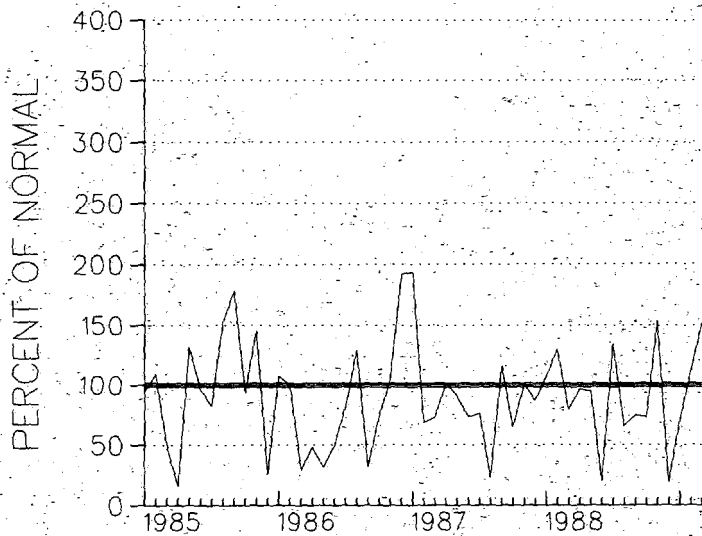
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
 FOR THE 51 MONTHS
 ENDING MARCH 1989
 MARYLAND

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

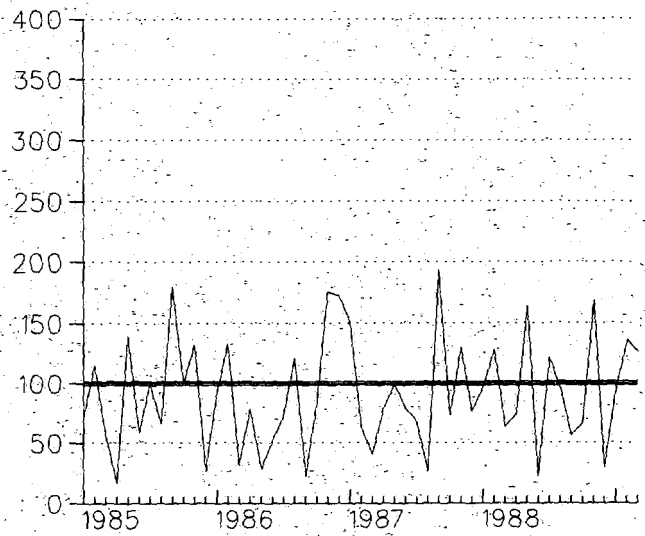
CLUSTER 2 -DIVISION(S):
 UPPER SOUTHERN 04
 NORTHERN EASTERN SHORE 05

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

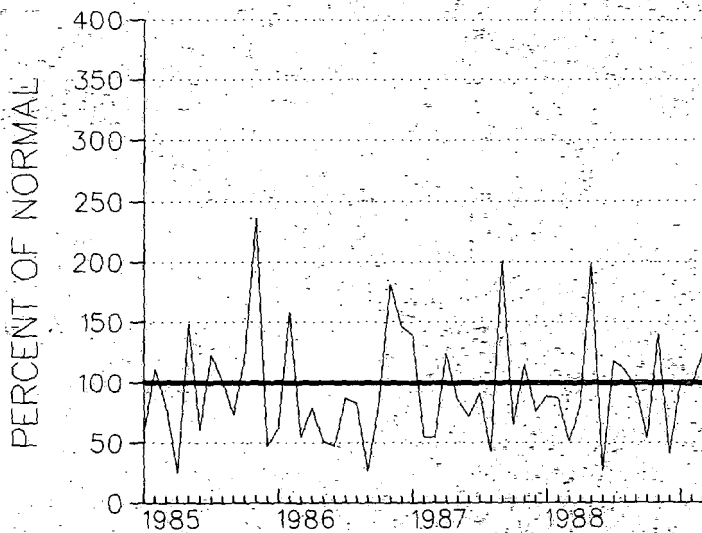
CLUSTER 4 -DIVISION(S):
 ALLEGHENY PLATEAU 08



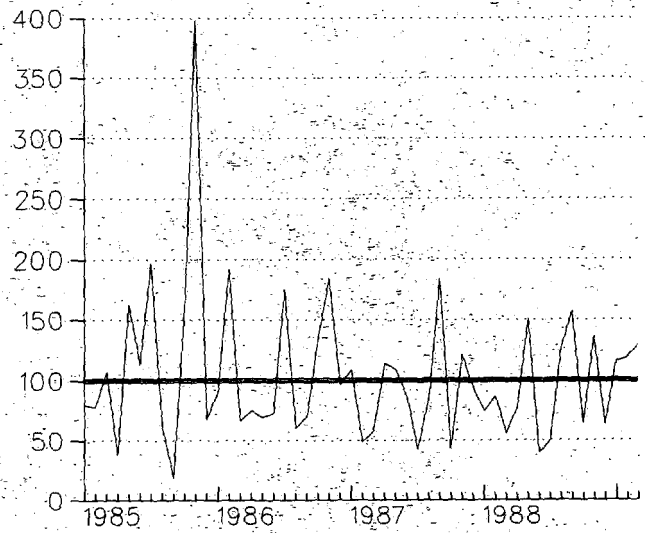
CLUSTER 1



CLUSTER 2



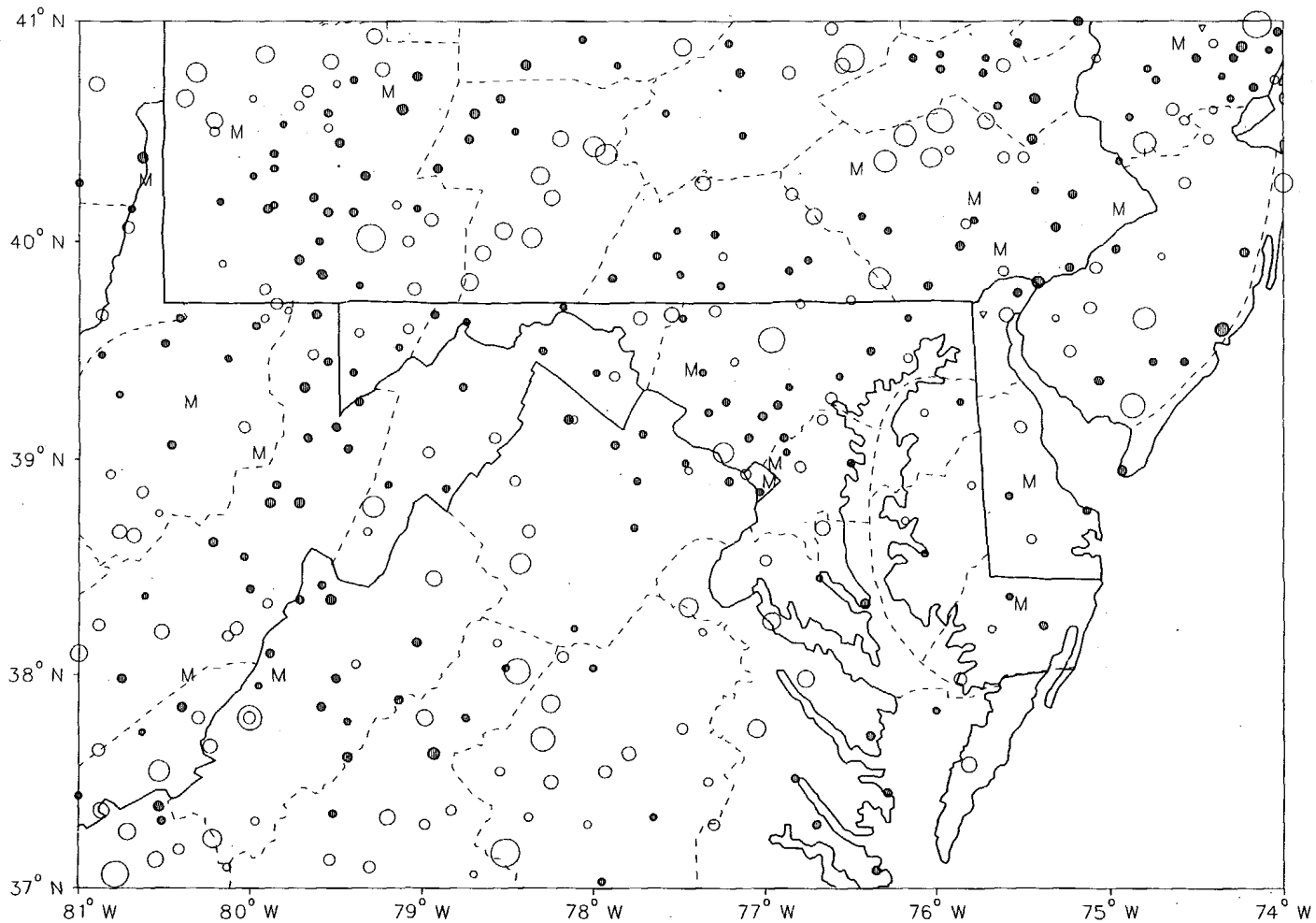
CLUSTER 3



CLUSTER 4

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

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

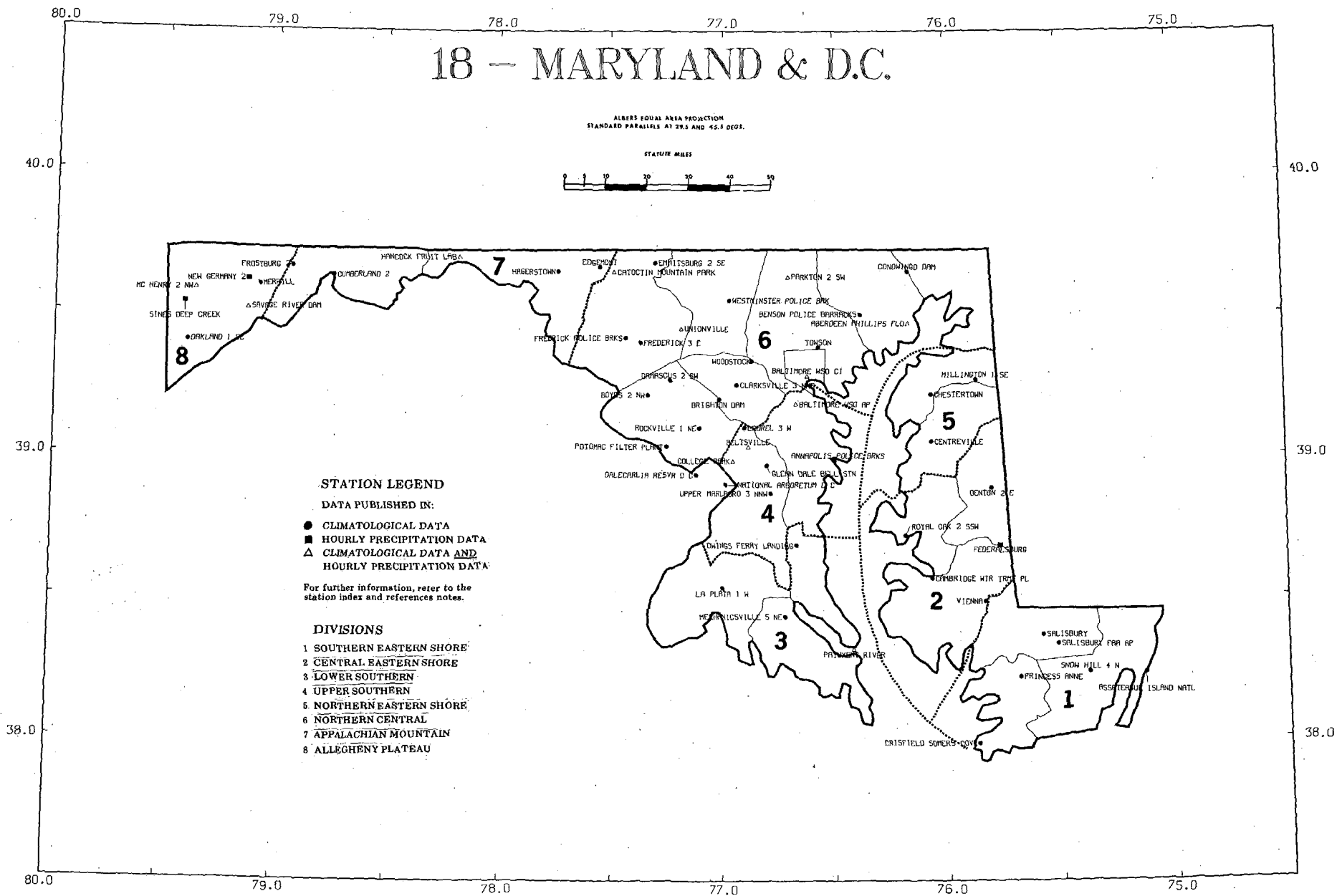


CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

18 - MARYLAND & D.C.

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

STATUTE MILES



STATION LEGEND

DATA PUBLISHED IN:

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

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

DIVISIONS

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

76.0
40.0

75.0

40.0

07 - DELAWARE

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 39.5 AND 45.5 DEGS.

STATUTE MILES



STATION LEGEND

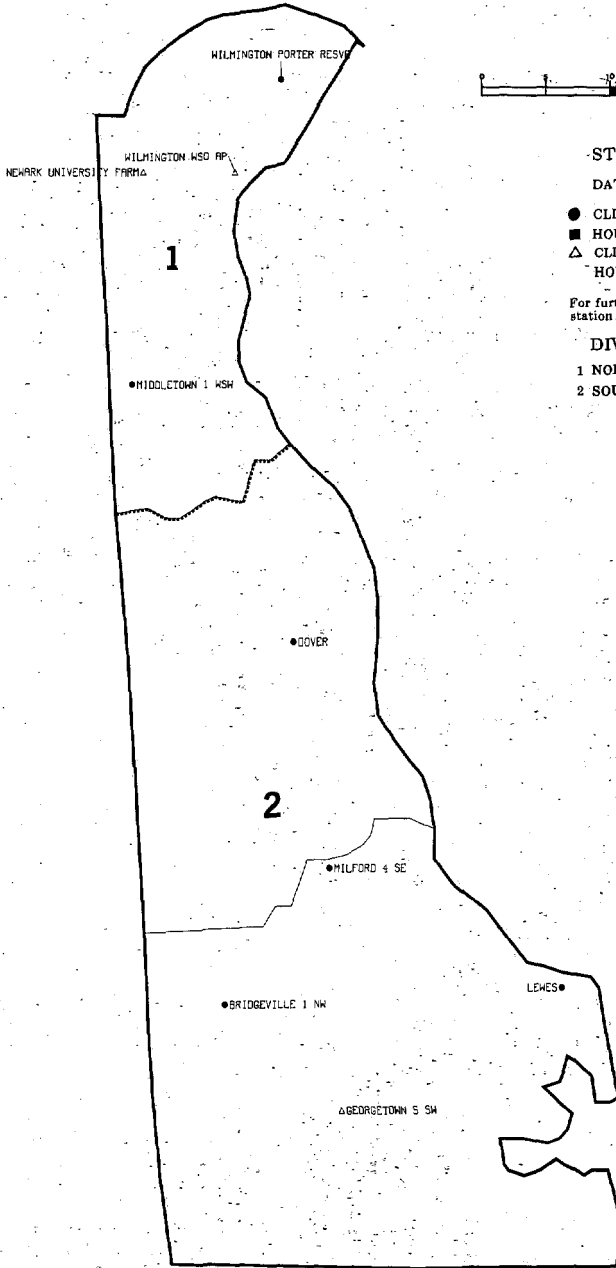
DATA PUBLISHED IN:

- 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

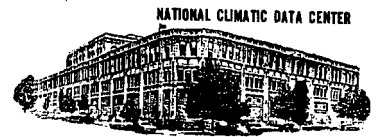
75.0

38.0

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								2.77	4.15	2.94	
ASHFORD	36.74E	1.20	2.70	2.90	0.84E								3.80	4.90	4.82	
BADIN			1.30	2.60	1.24E								2.40	4.10	2.90	
B EVERETT JORDAN DAM		1.70	1.50	3.60										1.70		
BOOMER 5 WSW		1.00	2.10													
BURLINGTON 3 WNE		0.80	1.42E													
CAPE HATTERAS WSO	48.85	5.75														
CARTHAGE 8 SE		1.70														
CATALOCHEE		0.53														
CHARLOTTE WSO AP	26.91															
CLAYTON 2 NE	35															
DALTON																
DOBSON																
EDEN																
ELIZABETH																
ELK																
FAYE																
FRANK																
GREENS																
GREENVILLE																
HELTON																
HOBOKEN																
LAKE LURE																
LAURINBURG																
LEXINGTON																
MOORESVILLE 2																
MOOREHEAD CITY																
MOUNT PLEASANT																
N WILKESBORO 12																
POLKTON 2 NE																
QUEBEC																
RALEIGH-DURHAM WSW																
ROANOKE RAPIDS																
ROARING GAP 1 NW																
SHELBY 2																
SNEADS FERRY 2 ENE																
SUNSHINE 2-25E																
WILKINGTON WSO AP																
WILSON 3 SW																
YADKINVILLE 6 E	28															

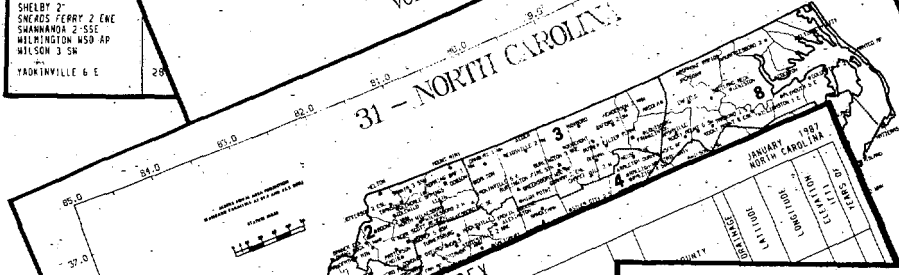


HOURLY PRECIPITATION DATA
NORTH CAROLINA

DECEMBER 1987
WITH ANNUAL SUPPLEMENT
VOLUME 37 NUMBER 12

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- * Energy



STATION INDEX

STATION	COUNTY	DATE	PRECIPITATION	WIND	TEMPERATURE	RELATIVE HUMIDITY	WIND DIRECTION	WIND VELOCITY	WIND GUSTS	WIND SUSTAINED	WIND MAXIMUM	WIND MINIMUM	WIND AVERAGE	WIND BURSTS	WIND CALM PERIODS	WIND CALM PERCENT	WIND CALM HOURS	WIND CALM MINUTES	WIND CALM SECONDS	WIND CALM PERIODS OF MAXIMA	WIND CALM PERIODS OF MINIMA	
ASHEVILLE WSO AP	ASHEVILLE	01/01	0.00	0	42	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MONTHLY PRECIPITATION MAXIMA

STATION	HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
ASHEVILLE WSO AP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HOURLY PRECIPITATION

STATION	DATE	P. M. HOUR ENDING																									
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
ASHEVILLE WSO AP	01/01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

ISSN 0364-6319

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.

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