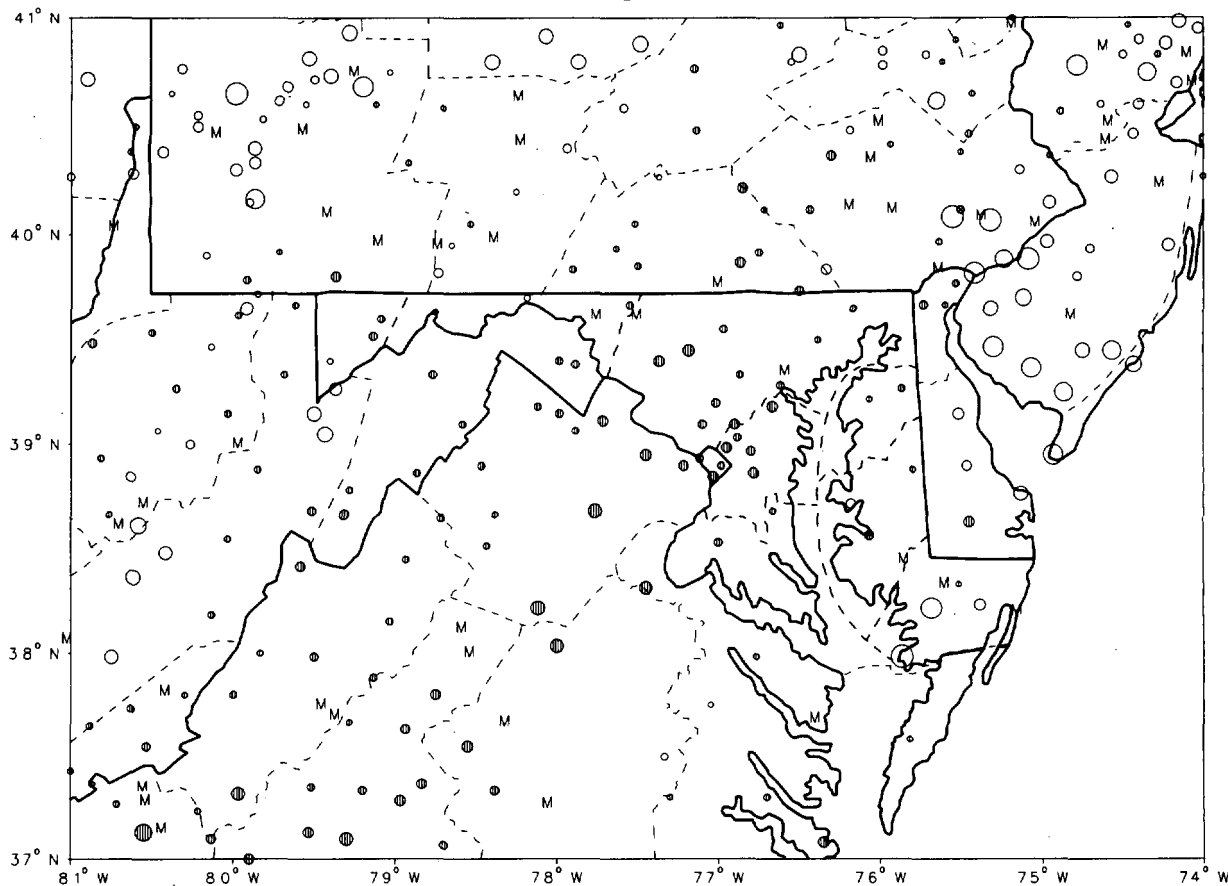




CLIMATOLOGICAL DATA MARYLAND AND DELAWARE NOVEMBER 1987 VOLUME 91 NUMBER 11

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 AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC DATA CENTER.

Kennell D. Hader

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND AND
DELAWARE
NOVEMBER 1987

MARYLAND
 HIGHEST TEMPERATURE 83
 LOWEST TEMPERATURE 8
 GREATEST TOTAL PRECIPITATION 5.40
 LEAST TOTAL PRECIPITATION 1.46
 GREATEST 1 DAY PRECIPITATION 2.50
 GREATEST TOTAL SNOWFALL 20.0
 GREATEST DEPTH OF SNOW OR ICE 10

NOVEMBER 4
 NOVEMBER 22

 NOVEMBER 29
 NOVEMBER 12

BOYDS 2 NW
 OAKLAND 1 SE
 CAMBRIDGE WTR TRMT PL
 CRISFIELD SOMERS COVE
 CATOCTIN MOUNTAIN PARK
 MC HENRY 2 NW
 3 STATIONS

DELAWARE
 HIGHEST TEMPERATURE 80
 LOWEST TEMPERATURE 15
 GREATEST TOTAL PRECIPITATION 5.33
 LEAST TOTAL PRECIPITATION 2.56
 GREATEST 1 DAY PRECIPITATION 2.00
 GREATEST TOTAL SNOWFALL 2.8
 GREATEST DEPTH OF SNOW OR ICE 1

NOVEMBER 5
 NOVEMBER 21

 NOVEMBER 12
 NOVEMBER 22+

GEORGETOWN 5 SW
 NEWARK UNIVERSITY FARM
 GEORGETOWN 5 SW
 LEWES
 GEORGETOWN 5 SW
 GREENWOOD 2 NE
 3 STATIONS

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
NOVEMBER 1987

STATION	TEMPERATURE (°F)											PRECIPITATION (IN)												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW SLEET			NO. OF DAYS		
											90 OR ABOVE	32 OR BELOW MAX	32 OR BELOW MIN	0 OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
MARYLAND																								
SOUTHERN EASTERN SHORE 01																								
ASSATEAGUE ISLAND NATL SE	61.8	41.3	51.6		77	4	22	23	399	2	0	0	6	0	3.52		1.09	30	.5	0	6	3	1	
CRISFIELD SOMERS COVE	59.9	44.3	52.1	1.6	70	17+	28	23+	378	0	0	0	5	0	1.46	-1	.90	11	.0	0	2	1	0	
PRINCESS ANNE	63.0	38.6	50.8	2.8	78	4	20	23	422	4	0	0	10	0	1.72	-1	.96	29	.0	0	5	1	0	
SALISBURY																								
SALISBURY FAA AP	60.8	39.0	49.9	2.2	77	4	21	23	449	1	0	0	8	0	3.08		1.50	29	2.8	2	5	2	1	
SNOW HILL 4 N	62.9	40.3	51.6	3.1	77	4	21	23	399	4	0	0	7	0	2.76		1.38	29	2.0	0	5	2	1	
--DIVISIONAL DATA-->																								
CENTRAL EASTERN SHORE 02																								
CAMBRIDGE WTR TRMT PL	62.8	41.2	52.0	3.6	78	4	23	23	383	1	0	0	7	0	5.40	1.68	1.61	12	4.3	0	6	5	2	
DENTON 2 E	61.3	38.9	50.1	2.5	77	5+	22	23+	441	2	0	0	8	0	3.70	.17	1.49	11	3.5	0	4	3	1	
ROYAL OAK 2 SSW	61.6	41.0	51.3	2.4	76	4	25	23	404	0	0	0	7	0	3.26	-1.47	.79	30	2.0	0	6	4	0	
VIENNA																								
--DIVISIONAL DATA-->																								
LOWER SOUTHERN 03																								
LA PLATA 1 W	61.7	37.9	49.8	2.5	78	4	21	21	450	1	0	0	9	0	4.36	1.16	1.44	11	6.8	7	6	4	1	
MECHANICSVILLE 1 E	61.8	37.9	49.9		78	8+	21	22	451	3	0	0	10	0	3.30		1.11	29	5.0	5	5	3	1	
OWINGS FERRY LANDING	61.6	38.3	50.0	2.1	80	4	22	22+	445	1	0	0	10	0	3.64	.31	1.22	11	5.0	5	6	3	1	
PATUXENT RIVER	59.9	39.9	49.9	1.9	79	4	24	22	437	1	0	0	7	0	3.19		1.07	10	5.2	5	5	12+	4	
--DIVISIONAL DATA-->																								
UPPER SOUTHERN 04																								
ANNAPOLIS POLICE BRKS	61.5	33.5	47.5		76	4	17	22	518	0	0	0	13	0	4.33		1.63	29	.0	5	6	3	2	
BALTIMORE WSO AP	58.1	37.4	47.8	1.5	77	4	19	22	511	0	0	0	9	0	5.05	1.94	2.08	29	6.0	6	5	3	2	
BELTSVILLE	59.2	35.9	47.6	2.6	74	9+	19	23	516	0	0	0	11	0	3.82	1.85	1.38	11	10.3	10	5	3	2	
COLLEGE PARK	60.0	37.5	48.8	1.9	78	5	21	23	481	0	0	0	9	0	4.87	1.77	1.88	29	8.8	9	5	3	0	
DALECARLIA RESVR D C	61.7	35.7	48.7	1.7	78	4	15	21	480	0	0	0	10	0	4.03	1.88	1.70	29	.0	8	6	3	0	
GLENN DALE BELL STN	62.2	34.8	48.5	2.2	79	4	16	23	488	0	0	0	12	0	4.77	1.43			15.0	10	5	3	1	
LAUREL 3 W	59.1	37.9	48.5	1.0	77	4	18	22	491	0	0	0	8	0	5.34	1.94	1.40	10	16.0	0	6	4	3	
NATIONAL ARBORETUM D C	60.4	34.7	47.6	1.5	78	5	10	22	516	0	0	0	11	0	3.69	.61	1.12	30	13.0	0	6	3	1	
UPPER MARLBORO 3 NNW	59.8	36.5	48.2		80	5	19	23	503	4	0	0	11	0	5.02	1.86	1.81	30	9.0	9	6	3	3	
--DIVISIONAL DATA-->																								
NORTHERN EASTERN SHORE 05																								
CHESTERTOWN	59.7	39.5	49.6	2.6	75	4	23	22	453	0	0	0	5	0	3.63	.17	1.03	30	2.0	2	5	4	1	
MILLINGTON 1 SE	61.1	38.0	49.6	3.5	76	4	20	23	455	0	0	0	8	0	4.25	.78	1.48	30	.0	0	6	3	2	
--DIVISIONAL DATA-->																								
NORTHERN CENTRAL 06																								
ABERDEEN PHILLIPS FLD					72	4	20	23		2	0	0	4	0	2.94				.0	0	1	1	0	
BALTIMORE WSO CI	58.6	41.0	49.8	.6	77	4	22	22+	452	2	0	0	1	6	4.37	1.03	1.04	10	3.0	3	5	4	1	
BENSON POLICE BARRACKS	60.4	32.3	46.4	1.1	77	4	14	22	550	0	0	0	16	0	4.31	.42	1.65	29	.0	0	6	4	1	
BOYDS 2 NW	58.3	39.0	48.7		83	4	20	22	484	2	0	0	1	9	4.18		1.30	29	.0	0	8	3	1	
CATOCTIN MOUNTAIN PARK	54.3	36.8	45.6		73	4	15	21	578	0	0	0	3	11	4.01		2.50	29	3.5	0	5	1	1	
CLARKSVILLE 3 NNE	60.8	34.3	47.6		80	4	16	23	516	0	0	0	13	0	4.00		1.20	29	8.2	8	7	4	1	
CONOWINGO DAM	57.4	32.3	44.9	.8	71	4	16	23+	597	0	0	0	15	0	4.03	.55	2.18	29	.0	0	5	2	2	
DAMASCUS 2 SW	56.8	38.7	47.8		77	4	20	22+	510	0	0	0	1	7	4.71		1.75	29	5.3	5	7	3	1	
EMMITSBURG 2 SE	56.1	34.8	45.5		74	4	18	23	578	0	0	0	11	3	4.84		2.20	29	3.0	3	7	3	1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
NOVEMBER 1987

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					
											90 OR ABOVE	32 OR BELOW MAX	32 OR BELOW MIN	0 OR BELOW					TOTAL	MAX DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
FREDRICK POLICE BRKS	56.7	39.2	50.0		77	4	21	2	446	0	0	0	6	0	3.9		1.78	29	1.7	11	7	2	.1	
ROCKVILLE 1 NE	55.3	37.5	47.9	1.6	81	4	22	0	505	0	0	2	9	0	4.2	29	1.55	29	4.5	5	11	6	3	.2
TOWSON	55.1	34.1	48.6		77	4	23	0	484	0	0	1	14	0	5.0	29	2.00	29	M	M	5	4	.2	
UNIONVILLE	55.7	39.5	44.3	1.1	76	4	17	3	613	0	0	0	18	0	5.9	28	1.70	10	2.8	T	5	5	.3	
WESTMINSTER POLICE BRK	55.7	36.1	47.4	3.1	76	4	16	3	520	1	0	0	9	0	4.1	29	1.70	29	3.0	3	11	6	5	
WOODSTOCK	55.9	36.5	48.2	3.5	79	4	18	3	497	0	0	0	10	0	3.9	29	1.48	29	6.5	7	11	6	3	
--DIVISIONAL DATA-->			47.3	2.1											4.2	.89		3.9						
APPALACHIAN MOUNTAIN 07																								
CUMBERLAND 2	57.6	34.9	46.3	2.2	78	4	19	2	557	0	0	1	1	0	2.5	.14	.65	30+	5.0	5	12	7	2	0
FRDSTBURG 2	50.4	34.1	42.3		73	5+	13	2	677	0	0	3	13	0	3.1		.84	11	17.8	7	13+	8	3	0
HAGERSTOWN	57.6	34.1	45.9	3.1	77	4	17	3	592	0	0	1	7	0	2.5		2.5	0	2.5	0	0	0	0	0
HANCOCK FRUIT LAB	57.6	34.1	45.9	3.1	79	4	15	3	567	0	0	1	13	0	2.6	-.06	.93	29	8.5	5	11	6	2	0
--DIVISIONAL DATA-->			44.8	1.2											2.7	.04		10.4						
ALLEGHENY PLATEAU 08																								
MC HENRY 2 NW	50.0	33.4	41.7		72	4+	10	2	692	0	0	3	16	0	4.5		1.06	29	20.0	10	12	8	5	2
OAKLAND 1 SE	53.6	31.2	42.4	3.2	72	3+	8	2	670	0	0	2	16	0	3.0	-.06	1.44	10	17.3	9	21	7	2	1
SAVAGE RIVER DAM	53.2	32.0	42.6	2.3	74	4	15	2	665	0	0	3	15	0	3.1	.82	.93	30	8.0	4	12	5	4	0
--DIVISIONAL DATA-->			42.2	3.1											3.6	.61		15.1						
DELAWARE																								
NORTHERN 01																								
MIDDLETOWN 3 E	58.7	38.0	48.4		75	17+	19	2	493	0	0	0	7	0	3.7		1.62	12	T	T	4	3	2	
NEWARK UNIVERSITY FARM	59.2	36.5	47.9	2.1	75	4	15	2	507	0	0	0	8	0	4.3	1.13	1.66	29	2.0	0	0	6	3	.2
WILMINGTON WSO AP	57.1	37.6	47.4	1.8	73	4	20	2	521	0	0	0	6	0	3.5	.17	1.13	29	.7	1	12	5	3	.2
WILMGTN PORTER RESVR	56.9	38.6	47.8	2.6	75	4	19	2	512	0	0	0	6	0	4.5	.79	1.81	29	1.0	1	11	5	3	.2
--DIVISIONAL DATA-->			47.9	2.1											4.0	.66		.9						
SOUTHERN 02																								
DOVER	62.7	41.7	52.2	4.0	77	4	17	2	378	2	0	0	4	0	2.9	-.60	.84	11	M	0	0	7	2	0
GEORGETOWN 5 SW	60.2	38.6	49.4	2.2	80	5	16	2	467	6	0	1	8	0	5.3	2.04	2.00	12	1.0	0	12+	6	3	.2
GREENWOOD 2 NE	60.4	39.0	49.7		76	4	22	2	452	1	0	0	7	0	4.1		1.77	10	2.8	T	0	6	2	1
LEWES	61.4	42.4	51.9	3.9	77	4	22	2	389	5	0	0	5	0	2.5	-.93	.61	30	.8	0	0	6	3	0
MILFORD 4 SE	60.7	40.0	50.4	2.8	77	4	21	2	434	2	0	0	7	0	3.0	-.41	.80	11	1.5	T	0	6	3	0
--DIVISIONAL DATA-->			50.7	2.9											3.5	-.22		1.1						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
NOVEMBER 1987

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	M 3.52										.08	.95	.65	-	.25			.24		.02							.02		.02	.20	1.09	
CRISFIELD SOMERS COVE	1.46										.90																	*	.20	.36		
PRINCESS ANNE	1.72										.33	.30	.10					.03											.05	.51	.40	
SALISBURY	M																															
SALISBURY FAA AP	3.08										.37	.39	T				T	.03			.02	T						T	.12	1.50	.65	
SNOW HILL 4 N	2.76										.44	.28	.22						.01		T	T							.02	1.28	.51	
CENTRAL EASTERN SHORE 02																																
CAMBRIDGE WTR TRMT PL	5.40										.86	1.35	1.61					.10										T	.08	.73	.67	
DENTON 2 E	3.70										.97	1.49	.16						.10										.04	.92	.09	
ROYAL OAK 2 SSW	3.26										.74	.78	.15						.03		T				T			.16	.61	.79		
VIENNA	M																															
LOWER SOUTHERN 03																																
LA PLATA 1 W	4.36										.82	1.44	T					.01	.24						.01			.07	.53	.96	.28	
MECHANICSVILLE 1 E	3.30										.73	.94	T					.04			T	T						T	.24	1.11	.24	
OWINGS FERRY LANDING	3.64										.72	1.22	.09						.21			T			T			.02	.20	.92	.26	
PATUXENT RIVER	3.19										1.07	.70						T	.02		T							T	.36	.98	.06	
UPPER SOUTHERN 04																																
ANNAPOLIS POLICE BRKS	4.33										.75		1.05						.22							.03			T	.35	1.63	.30
BALTIMORE WSO AP	5.05										.99	1.34						.13			T	T			T			.04	.47	2.08		
BELTSVILLE	3.82										.09	1.38	.03					.01	.26			T	T			.01		.01	.70	.27	1.06	
COLLEGE PARK	4.87										.48	.98	.91						.30						.02			.68	*	1.50		
DALECARLIA RESVR D C	4.03										.87	.08	.05						.29						.03			.24	.61	1.70	.16	
GLENN DALE BELL STN	4.77										.61	*	1.77					T	.17		T	T			.03			.07	.32	.61	1.19	
NORTHERN EASTERN SHORE 05																																
LAUREL 3 W	5.34										1.40	1.30						.33										.10	.90	1.31		
NATIONAL ARBORETUM D C	3.69										.01	.35	.95						.29						.01			.60	.36	1.12		
UPPER MARLBORO 3 NNM	5.02										T	1.10	1.20						.16									.44	.31	1.81		
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD	2.94										.60	*	.42							T		T						*	.02	*	*	1.90
BALTIMORE WSO CI	4.37										1.04	1.03						.23	.01			T						.04	1.00	1.02		
BENSON POLICE BARRACKS	4.31										.68	.69	.02						.21			T	T			.05		.06	.30	1.65	.65	
BOYDS 2 NW	4.18										.70	.80						.11	.40									.30	.46	1.30	.11	
BRIGHTON DAM	4.39										1.02	.65						.40	.04			.01	.01					.20	.62	1.44		
CATOCTIN MOUNTAIN PARK	M 4.01										.03	.48	-					.08	.39	.03		.04						.20	.24	2.50	.02	
CLARKSVILLE 3 NNE	4.00										.71	.64						T	.37			.06	T				.19	.70	1.20	.13		
CONOWINGO DAM	4.03										T	1.07	.23					.01	.22	T			.02				.05	.22	2.18	.03		
DAHASCUS 2 SW	4.71										.94	.45						.21	.46				.02				.27	.60	1.75			
EHMITSBURG 2 SE	4.84										T	.94	.38					.02	.60			T	T				.10	.30	2.20	.30		
NORTHERN WESTERN SHORE 07																																
FREDRICK POLICE BRKS	3.96										T	.82	.10					.10	.48									.05	.33	1.78	.30	
FREDRICK 3 E	5.29										.10	1.35	.08					.09	.45				T				T	.45	.77	2.00		
POTOMAC FILTER PLANT	4.73										1.07	.66						.52									.35	.50	1.63			
ROCKVILLE 1 NE	4.29										T	1.10	.32					.45			T	T	T				.27	.60	1.55			
TOWSON	M 5.06										.14	.12	1.30															.12	.67	2.00	.69	
NORTHERN WESTERN SHORE 08																																
UNIONVILLE	5.37										T	1.70	.50					.02				T	T					.52	1.29	1.25	.05	
WESTMINSTER POLICE BRK	4.13											.80	.51	.03					.34			T	T			.02	.04	.08	.39	1.70	.25	
WOODSTOCK	3.93										.72	.95							.42			.03	T					.18	1.48	.15		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
NOVEMBER 1987

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
APPALACHIAN MOUNTAIN 07																																	
CUMBERLAND 2	2.55									.25	.65	.17							.20		T	T		T				.02	.14	.47	.65		
EDGEMONT	4.14									.15	1.37	.18						.48		.02		T		T			.03	.17	.37	1.37			
FROSTBURG 2	3.19						T	T	T	.36	.84	.22					T	.14		.07	.19	.06	T				.01	.14	.53	.63			
HAGERSTOWN	H	-	-	-	-	-	-	-	-	T	T						.09	T								*	*	*	*	1.77			
HANCOCK FRUIT LAB	2.61								T	.32	.62	.09					.04	.32			.03	.02						.11	.13	.93	T		
ALLEGHENY PLATEAU 08																																	
MC HENRY 2 NW	4.59									.13	.60	1.03	.62					.11		.07	.24	.08				T		.03	T	1.06	.62		
HERRILL	3.29									.01	.50	.90	.15							.02	.28							.05	.43	.95			
OAKLAND 1 SE	3.08									.23	1.44	.25					T	.11		.15	.10		T	T			T	T	.80	T			
SAVAGE RIVER DAM	3.17								T	.52	.92	.17						.02		.01	.03	T		T			.02	.03	.52	.93			
DELAWARE																																	
NORTHERN 01																																	
MIDDLETOWN 3 E	3.78										T	1.62									T								.15	1.08	.93		
NEWARK UNIVERSITY FARM	4.32									.87	.35	.17						.08			T								.10	1.66	1.09		
WILMINGTON WSO AP	3.50									1.04	.30						T	.04		T	T							.13	1.13	.86			
WILMINGTON PORTER RESVR	4.55									1.52	.26	T					T	.04		T	T							.12	1.81	.80			
SOUTHERN 02																																	
DOVER	2.93									.79	.84	.17						.12			.02				.02			.01	.22	.43	.31		
GEORGETOWN 5 SW	5.33									.14	.76	2.00						.38			.05	.05						.02	.22	1.71			
GREENHOOD 2 NE	4.11									1.77	.46	.26						.29			.06			T				.08	.81	.38			
LEWES	2.56									.35	.60	.14						.23						.03				.02	.58	.61			
MILFORD 4 SE	3.02									.46	.80	.18						.19			.02			T				.78	.59				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
NOVEMBER 1987

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	64	64	63	77	76	74	52	63	71	71	53	51	52	59	68	59	61	65	73	59	57	47	47	62	64	67	65	51	58	60			
		OBS																																	
		MIN	46	46	44	52	57	38	28	45	52	48	34	34	32	32	37	48	46	51	40	41	25	24	22	42	42	45	45	46	50	46			
CRISFIELD SOMERS COVE	17	MAX	64	66	66	70	69	60	58	66	68	68	44	45	54	57	63	64	70	69	63	51	47	47	52	60	64	60	57	52	62	60			
		OBS																																	
		MIN	45	48	51	57	60	44	36	51	51	42	32	31	37	44	40	44	55	56	44	46	30	28	28	43	47	47	47	46	51	48			
		OBS																																	
PRINCESS ANNE	17	MAX	71	69	72	78	72	59	61	73	74	71	45	47	59	60	67	67	74	70	65	52	47	39	56	63	70	67	59	54	65	63			
		MIN	36	40	40	56	57	39	24	39	59	41	32	26	23	30	32	31	45	45	33	39	30	25	20	44	38	46	46	47	46	49			
SALISBURY	17	MAX																																	
		MIN																																	
SALISBURY FAA AP	MID	MAX	65	66	73	77	71	50	61	73	73	59	40	47	59	67	61	66	73	70	55	52	37	38	57	64	71	69	51	52	63	63			
		MIN	39	43	42	53	48	28	28	45	58	39	30	31	28	35	37	33	49	50	35	37	26	22	21	42	38	45	45	48	52	43			
SNOW HILL 4 N	18	MAX	66	65	73	77	71	58	63	71	74	66	48	46	60	68	63	65	71	71	67	53	48	39	57	66	70	68	66	52	62	62			
		OBS	36	41	41	58	58	40	26	40	58	43	35	29	28	30	36	33	53	59	34	41	29	23	21	43	38	45	48	49	55	48			
CENTRAL EASTERN SHORE 02																																			
CAMBRIDGE WTR TRMT PL	16	MAX	68	67	70	78	73	61	63	73	74	70	40	47	57	65	65	66	72	69	67	52	48	40	55	62	68	69	65	50	65	64			
		MIN	41	44	42	54	57	42	30	45	53	38	32	30	28	34	40	37	50	59	45	43	27	27	23	44	45	48	41	42	48	47			
DENTON 2 E	17	MAX	65	66	72	77	77	56	62	73	69	67	38	38	68	67	60	65	73	71	59	48	41	38	55	60	68	73	59	48	63	63			
		MIN	36	45	42	54	55	36	27	44	49	35	30	29	29	34	35	32	49	59	35	41	23	22	22	41	42	51	40	39	46	45			
ROYAL OAK 2 SSW	18	MAX	66	69	70	76	71	57	62	74	71	65	39	48	58	65	63	66	71	69	61	53	42	40	56	63	67	70	61	50	63	63			
		MIN	40	44	44	52	57	40	30	44	57	37	32	31	31	36	37	35	51	58	41	42	27	26	25	44	44	48	41	40	48	47			
VIENNA	18	MAX																																	
		MIN																																	
LOWER SOUTHERN 03																																			
LA PLATA 1 W	18	MAX	65	68	74	78	70	59	62	76	74	65	37	47	56	64	62	65	71	69	62	50	41	39	60	62	68	71	64	47	63	62			
		MIN	41	43	42	47	47	34	28	43	58	34	29	25	26	30	34	32	46	57	37	37	21	23	26	41	43	47	39	35	46	46			
MECHANICSVILLE 1 E	19	MAX	65	66	73	78	71	71	63	78	75	64	38	46	57	67	60	62	73	70	55	52	39	39	59	64	68	71	57	48	64	61			
		MIN	37	40	41	55	54	31	27	41	57	38	29	25	25	30	33	30	45	55	36	37	26	21	22	42	40	49	41	40	47	43			
OWINGS FERRY LANDING	17	MAX	67	66	74	80	70	57	64	76	72	65	38	48	57	67	60	63	73	69	61	51	42	38	58	63	67	72	60	47	63	60			
		MIN	38	41	41	52	53	31	27	40	58	38	28	22	22	31	34	32	47	58	38	40	26	22	23	47	40	49	40	39	46	45			
PATUXENT RIVER	MID	MAX	61	65	71	79	68	51	61	76	74	62	37	45	58	66	62	61	65	70	53	51		39	58	60	66	65	48	49	59	57			
		MIN	44	44	46	53	47	31	34	44	54	36	28	28	30	37	39	42	50	49	42	39	25	24	27	45	42	48	40	40	49	40			
UPPER SOUTHERN 04																																			
ANNAPOLIS POLICE BRKS	17	MAX	65	65	70	76	71	59	63	68	74	70	40	49	58	70	62	60	69	71	64	54	42	40	55	59	65	72	61	49	62	61			
		MIN	35	40	38	38	48	34	27	26	54	33	20	22	24	29	28	28	47	54	33	34	22	17	20	40	29	40	38	30	37	40			
BALTIMORE WSD AP	MID	MAX	66	65	72	77	68	49	61	72	70	59	34	46	53	65	57	59	69	66	54	50	32	38	56	66	66	71	45	46	60	51			
		MIN	38	45	43	49	45	31	31	45	59	34	29	22	29	33	36	35	49	48	37	32	24	19	20	45	42	44	39	38	44	38			
BELTSVILLE	08	MAX	69	68	67	72	74	67	50	62	74	73	44	40	47	55	66	60	63	70	66	55	49	31	39	57	65	66	71	42	52	62			
		OBS																																	
		MIN	36	41	40	46	47	35	27	39	48	41	29	29	22	28	32	31	38	56	36	41	25	22	19	27	40	42	39	38	41	41			
		OBS																																	
COLLEGE PARK	09	MAX	70	69	69	74	78	69	52	64	75	74	38	41	50	57	68	60	64	71	68	56	53	31	40	57	64	62	71	41	50	63			
		MIN	42	40	42	46	50	36	28	41	46	38	28	28	24	30	35	34	45	59	39	42	25	24	21	31	41	43	41	39	41	45			
DALECARLIA RESVR D C	17	MAX	69	68	75	78	68	57	65	75	75	67	38	49	57	68	62	63	70	69	61	51	40	39	58	65	67	72	62	45	62	55			
		MIN	36	39	40	46	41	32	27	39	50	35	15	31	24	37	31	32	51	55	37	36	20	20	22	44	38	42	36	36	41	39			
		OBS				64																													

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
NOVEMBER 1987

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 MIN	71 35	69 39	73 38	79 45	76 49	61 29	58 38	67 29	75 50	71 35	36 28	48 23	57 18	58 22	60 30	67 28	73 47	70 57	68 32	55 36	47 24	41 21	58 16	64 40	67 37	66 41	73 40	43 36	56 41	60 40	62.2 34.8			
LAUREL 3 W	MID	MAX OBS MIN	68 40	67 45	71 51	77 49	68 46	50 34	63 33	71 58	72 55	59 29	34 24	46 25	54 31	66 35	66 38	63 35	69 58	70 40	54 36	50 28	34 21	38 18	58 32	64 48	64 40	70 45	50 34	44 34	61 39	51 36	59.1 37.9			
NATIONAL ARBORETUM D C	08	MAX OBS MIN	70 36	68 38	68 40	73 41	78 51	74 35	52 28	64 41	75 45	72 42	41 26	45 30	47 25	57 29	70 33	60 31	63 31	70 51	68 37	60 37	54 25	54 10	60 25	54 20	32 41	39 42	58 39	63 36	66 36	71 41	41 36	51 36	63 41	60.4 34.7
UPPER MARLBORO 3 NNW	08	MAX MIN	70 34	69 36	67 38	75 52	80 51	69 31	51 33	63 46	76 60	72 43	44 30	34 24	47 22	56 28	66 29	59 29	64 35	72 56	67 37	55 39	52 28	31 23	39 19	58 27	64 40	67 42	72 40	42 40	52 40	62 44	59.8 36.5			
NORTHERN EASTERN SHORE	05																																			
CHESTERTOWN	23	MAX MIN	68 40	67 48	70 43	75 54	69 46	49 35	61 34	69 43	71 58	58 35	35 29	45 30	57 35	65 35	62 39	66 35	74 48	67 48	57 38	50 35	35 24	37 23	57 25	65 47	66 42	69 48	53 42	49 39	63 44	63 42	59.7 39.5			
MILLINGTON 1 SE	18	MAX OBS MIN OBS	67 35	64 46	69 42	76 45	69 51		62 29	69 38	71 55	64 37	38 30	45 29	58 28	68 34	62 36	68 30	72 45	69 59	59 52	42 42	39 22	56 20	65 42	65 38	70 45	64 39	48 39	60 44	62 45	61.1 38.0				
NORTHERN CENTRAL	06																																			
ABERDEEN PHILLIPS FLD	16	MAX MIN	65 49	63 49	66 42	72 51	68 51	59 34			70 55	64 37	46 31	56 26	33			60 31	71 51	69 59	63 36	50 42	45		53 20	60 41	61 43									
BALTIMORE WSO CI	MID	MAX MIN	65 45	64 52	72 51	77 54	69 46	51 40	63 39	72 50	72 60	32 32	50 25	56 28	69 36	60 42	60 45	66 42	69 47	55 44	49 33	33 22	41 22	55 29	66 48	60 44	72 44	44 37	45 36	60 42	52 40	58.6 41.0				
BENSON POLICE BARRACKS	17	MAX MIN	67 32	67 43	70 38	78 40	67 45	57 28	61 29	69 35	69 46	67 30	36 23	47 20	67 25	70 30	63 31	64 27	69 41	67 52	61 31	50 35	43 17	39 14	53 16	64 32	49 34	71 34	60 30	46 31	58 37	61 40	60.4 32.3			
BOYDS 2 NW	18	MAX MIN	68 44	65 45	72 45	83 51	67 32	53 30	62 46	71 55	65 60	30 25	47 27	57 31	67 38	60 42	61 58	68 52	63 37	55 48	48 38	37 25	52 45	64 45	64 45	67 47	56 36	44 36	56 42	50 41	58.3 39.0					
CATOCTIN MOUNTAIN PARK	17	MAX MIN	65 43	62 46	72 46	73 55	70 50	50 30	56 34	67 46	62 53	30 28	49 22	52 25	57 30	71 41	54 37	54 36	61 45	59 49	56 34	47 31	32 15	32 16	50 25	58 40	63 42	50 31	32 32	37 37	47 36	54.3 36.3				
CLARKSVILLE 3 NNE	17	MAX MIN	69 32	68 40	74 48	80 40	69 44	56 34	62 21	74 33	69 44	64 34	36 28	47 27	57 20	67 27	62 29	70 50	65 31	57 35	50 28	39 20	53 16	67 32	64 35	71 37	64 38	46 38	61 43	61 42	34.3 60.8					
CONOWINGO DAM	MID	MAX OBS MIN	64 33	61 43	66 40	71 41	67 40	52 32	63 26	64 36	67 36	55 30	38 28	46 24	62 26	69 27	61 32	61 29	70 42	67 40	56 31	52 31	36 21	42 16	52 16	57 32	58 35	58 37	44 34	46 36	59 39	59 37	57.4 32.3			
DAMASCUS 2 SW	19	MAX MIN	67 43	66 45	71 47	77 51	67 48	48 33	59 32	71 45	64 55	58 29	30 25	45 27	57 33	66 43	59 41	60 38	66 50	62 50	53 35	47 33	33 20	51 26	62 45	63 50	67 36	54 36	43 36	55 41	48 39	56.8 38.7				
EMMITSBURG 2 SE	17	MAX MIN	64 32	65 45	67 39	74 39	69 48	54 35	60 27	65 36	60 46	31 26	47 28	59 32	65 30	62 35	60 36	66 34	62 52	52 36	46 34	36 20	21 18	18 32	39 39	64 36	58 35	67 40	49 35	50 41	56.1 34.8					
FREDRICK POLICE BRKS	17	MAX MIN	66 39	66 46	70 44	77 51	75 53	60 35	61 32	68 44	64 52	41 33	47 30	60 35	65 36	65 37	60 34	69 34	73 55	62 34	58 40	43 22	37 21	51 24	65 45	65 46	70 46	68 36	46 36	55 40	53 44	60.7 39.2				
ROCKVILLE 1 NE	17	MAX MIN	68 38	66 43	76 43	81 46	68 43	49 33	63 36	74 44	69 58	32 27	47 24	58 28	65 33	58 35	61 32	70 55	64 46	53 40	47 30	30 21	36 20	57 27	65 47	65 43	70 48	48 38	44 38	60 44	48 37	58.3 37.5				
TOWSON	18	MAX OBS MIN OBS	62 31	72 38	74 36	75 36	77 42	70 38	63 30	70 30	68 40	60 37	70 30	69 25	63 32	61 30	60 29	63 32	61 32	60 41	63 45	56 40	52 37	53 23	40 24	65 26	66 41	64 30	71 44	62 36	47 35	60 34	62 32	63.0 34.1		
UNIONVILLE	18	MAX OBS MIN OBS	65 30	66 36	70 34	76 41	75 43	61 28	60 24	68 56	63 33	51 23	40 20	46 20	58 23	67 26	60 27	63 27	57 40	64 42	63 24	53 18	37 18	37 17	53 31	64 35	68 36	68 32	67 36	49 36	51 42	48 36	59.1 29.5			
WESTMINSTER POLICE BRK	17	MAX MIN	66 36	66 45	74 43	76 43	76 55	59 31	59 30	70 43	70 53	57 29	34 22	45 22	56 33	63 39	63 37	58 35	66 44	64 52	59 34	50 33	37 20	35 16	49 21	63 36	62 41	65 47	60 33	42 32	57 38	60 39	58.7 36.1			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
NOVEMBER 1987

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		
WOODSTOCK	18	MAX MIN	68 34	68 43	73 40	79 43	70 52	52 35	62 27	73 40	67 55	62 34	35 27	48 27	58 28	68 30	59 32	63 30	67 50	65 57	58 34	47 35	36 22	39 19	54 18	64 39	63 41	70 44	65 38	45 37	60 42	60 43	59.9 36.5		
APPALACHIAN MOUNTAIN	07																																		
CUMBERLAND 2	18	MAX MIN	72 39	70 46	73 44	78 44	71 35	49 33	62 46	76 46	66 38	57 26	33 27	47 33	63 40	65 32	61 31	63 31	65 55	62 37	55 38	47 21	30 20	43 19	55 20	59 34	59 41	62 39	55 36	41 27	46 40	43 29	57.6 34.9		
FROSTBURG 2	07	MAX MIN	66 40	68 40	64 47	73 47	73 51	54 28	40 28	54 36	64 50	54 32	32 21	21 21	48 26	58 33	65 38	59 38	59 41	51 50	47 48	36 30	36 20	17 20	37 15	58 34	55 44	57 44	59 34	34 31	37 32	43 35	50.4 34.1		
HAGERSTOWN	18	MAX MIN																																	
HANCOCK FRUIT LAB	16	MAX MIN	70 30	67 41	65 39	79 35	75 47	55 36	64 23	73 54	69 56	59 30	30 25	45 25	60 23	64 26	61 30	57 40	65 43	64 50	56 30	48 33	40 22	41 15	52 15	64 27	61 40	59 35	49 36	42 36	47 40	46 42	57.6 34.1		
ALLEGHENY PLATEAU	08																																		
MC HENRY 2 NW	08	MAX MIN	67 41	71 53	72 54	72 53	69 47	49 25	40 25	52 36	63 47	47 32	33 18	25 18	35 22	50 32	55 39	55 40	57 40	61 43	50 27	46 28	32 12	17 10	40 10	56 38	50 45	62 44	57 32	33 32	38 30	46 30	50.0 33.4		
OAKLAND 1 SE	17	MAX MIN	71 29	72 40	72 37	70 37	66 47	47 27	53 32	64 42	63 35	51 25	26 19	37 22	53 30	56 41	57 24	62 31	63 51	61 43	48 27	47 24	24 12	37 8	56 10	51 35	62 37	60 39	52 33	35 32	46 34	45 32	53.6 31.2		
SAVAGE RIVER DAM	08	MAX MIN	70 35	73 36	68 42	74 40	72 42	55 32	46 29	58 38	68 38	55 35	37 23	32 23	41 29	56 32	59 28	52 29	58 31	64 49	52 29	51 30	38 18	24 15	31 19	58 20	56 38	59 38	64 36	38 34	40 35	47 36	53.2 32.0		
DELAWARE																																			
NORTHERN	01																																		
MIDDLETOWN 3 E	17	MAX OBS MIN OBS	64 35	64 47	69 43	75 50	68 50	50 31	59 30	69 42	69 55	61 36	38 30	43 29	58 33	65 33	59 37	60 33	75 49	68 55	55 34	49 37	38 19	36 20	57 21	64 42	57 39	68 44		48 39	57 44	58 44	58.7 38.0		
NEWARK UNIVERSITY FARM	17	MAX MIN OBS	65 35	58 51	66 42	75 45	67 47	54 37	64 44	66 38	69 49	64 35	37 29	45 22	58 30	67 31	59 35	63 31	71 46	68 49	61 34	50 39	43 15	37 18	56 19	63 36	58 39	66 39	60 38	47 37	61 40	59 44	59.2 36.5		
WILMINGTON WSO AP	MID	MAX MIN	63 38	58 46	65 44	73 44	67 43	49 34	60 34	66 41	68 57	58 35	35 31	45 30	58 34	67 32	59 38	61 34	69 50	67 45	53 37	50 34	34 22	37 20	53 22	64 38	59 41	67 40	42 39	48 40	61 45	57 41	57.1 37.6		
WILMINGTON PORTER RESVR	MID	MAX MIN	63 41	58 49	63 46	75 51	66 43	48 34	59 33	65 43	66 57	57 34	44 29	30 30	55 35	65 38	63 40	65 38	68 46	65 57	50 37	33 32	36 19	53 25	62 40	58 40	65 40	48 38	46 38	60 44	59 41	56.9 38.6			
SOUTHERN	02																																		
DOVER	17	MAX MIN	68 34	64 47	72 42	77 55	72 57	60 35	64 44	67 50	72 57	67 37	42 33	45 26	60 35	69 43	67 44	64 36	74 46	71 61	65 35	52 47	48 21	34 17	59 24	64 50	68 40	71 54	69 38	50 44	61 50	64 49	62.7 41.7		
GEORGETOWN 5 SW	08	MAX MIN	67 36	65 42	65 41	73 54	80 60	69 36	51 25	62 41	74 51	73 48	49 35	38 28	46 27	65 35	61 41	60 32	64 40	73 58	69 34	56 40	53 23	29 16	40 20	56 31	61 40	69 45	69 42	49 41	57 47	63 49	60.2 38.6		
GREENWOOD 2 NE	18	MAX MIN	66 37	65 44	72 43	76 55	71 53	53 34	61 29	72 42	71 58	64 39	40 30	45 29	57 29	64 34	59 37	65 34	73 48	68 55	55 36	50 40	41 22	36 22	56 22	61 39	68 43	70 47	57 41	49 42	63 42	63 44	60.4 39.0		
LEWES	17	MAX MIN	62 41	63 46	73 46	77 56	70 56	57 37	62 32	73 46	73 60	66 41	47 34	46 29	59 36	63 43	59 39	59 41	70 52	71 60	62 41	62 41	44 24	38 22	58 26	61 44	68 42	73 52	58 43	50 46	59 48	60 47	61.4 42.4		
MILFORD 4 SE	17	MAX MIN	65 37	62 45	73 42	77 56	71 53	53 35	61 28	72 41	72 56	64 39	43 32	45 28	58 32	66 38	57 37	58 37	73 50	70 58	60 45	52 42	44 23	37 21	56 22	60 39	68 40	73 47	58 41	49 44	61 47	62 45	60.7 40.0		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

MARYLAND AND
DELAWARE
NOVEMBER 1987

STATION		DAY OF MONTH																														TOTAL OR AVG	
		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 UPPER SOUTHERN 04 UPPER MARLBORO 3 NNW		WIND	9'	2'	1'	6'	2'	47'	20'	5'	16'	22'	74'	43'	6'	1'	0'	0'	0'	43'	8'	4'	40'	50'	9'	7'	0'	7'	33'	34'	29'	5'	523 2.018 54.7 40.6
		EVAP	8'	7'	4'	11'	5'	20'	10'	6'	10'	6'	-	-	-	5'	3'	2'	8'	15'	5'	14'	-	-	0'	0'	6'	9'	0'	0'	-		
		MAX	67'	65'	65'	68'	70'	64'	51'	52'	62'	66'	50'	34'	40'	42'	48'	56'	56'	64'	68'	54'	52'	40'	40'	44'	52'	60'	64'	44'	46'	56'	
		MIN	47'	46'	50'	50'	55'	40'	38'	38'	46'	50'	32'	32'	32'	34'	34'	38'	50'	44'	44'	34'	32'	32'	34'	40'	44'	44'	40'	40'	46'		

EVAPORATION: IS MEASURED IN HUNDRETHS OF INCHES

WIND: IS MEASURED IN MILES

MAX AND MIN: THE MAXIMUM AND MINIMUM TEMPERATURES (FAHRENHEIT) OF THE WATER IN THE EVAPORATION PAN

SEE REFERENCE NOTES FOLLOWING STATION INDEX

SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND
DELAWARE
NOVEMBER 1987

STATION	DAY OF MONTH																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
MARYLAND																																
SOUTHERN EASTERN SHORE 01																																
ASSATEAGUE ISLAND NATL SES																																
SNOWFALL																																
SN ON GND																																
SALISBURY FAA AP																																
SNOWFALL																																
SN ON GND																																
SNOW HILL 4 N																																
SNOWFALL																																
SN ON GND																																
CENTRAL EASTERN SHORE 02																																
CAMBRIDGE WTR TRMT PL																																
SNOWFALL																																
SN ON GND																																
DENTON 2 E																																
SNOWFALL																																
SN ON GND																																
ROYAL OAK 2 SSW																																
SNOWFALL																																
SN ON GND																																
LOWER SOUTHERN 03																																
LA PLATA 1 W																																
SNOWFALL																																
SN ON GND																																
OWINGS FERRY LANDING																																
SNOWFALL																																
SN ON GND																																
UPPER SOUTHERN 04																																
ANNAPOLIS POLICE BRKS																																
SNOWFALL																																
SN ON GND																																
BALTIMORE WSO AP																																
SNOWFALL																																
SN ON GND																																
WTR EQUIV																																
BELTSVILLE																																
SNOWFALL																																
SN ON GND																																
COLLEGE PARK																																
SNOWFALL																																
SN ON GND																																
GLENN DALE BELL STN																																
SNOWFALL																																
SN ON GND																																
NATIONAL ARBORETUM D C																																
SNOWFALL																																
SN ON GND																																
UPPER MARLBORO 3 NNW																																
SNOWFALL																																
SN ON GND																																
NORTHERN EASTERN SHORE 05																																
CHESTERTOWN																																
SNOWFALL																																
SN ON GND																																
MILLINGTON 1 SE																																
SNOWFALL																																
SN ON GND																																
NORTHERN CENTRAL 06																																

SNOWFALL: INCLUDES SNOW AND ICE
 SNOW ON GROUND: INCLUDES SNOW, SLEET, ICE AND HAIL
 WATER EQUIVALENT: GIVEN FOR NWS STATIONS ONLY, WHEN SNOW DEPTH IS 2 INCHES OR MORE.
 SEE REFERENCE NOTES FOLLOWING STATION INDEX

SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND
DELAWARE
NOVEMBER 1987

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
ABERDEEN PHILLIPS FLD	SNOWFALL										-																				
	SN ON GND										-																				
CATOCTIN MOUNTAIN PARK	SNOWFALL									T	3.5																				
	SN ON GND																														
DAMASCUS 2 SW	SNOWFALL									.1	4.8																				
	SN ON GND										5	T	T	T							T	T	.4								
EMMITSBURG 2 SE	SNOWFALL										3.0																				
	SN ON GND										3										T	T									
FREDRICK POLICE BRKS	SNOWFALL										1.7																				
	SN ON GND										1																				
ROCKVILLE 1 NE	SNOWFALL										T	4.5																			
	SN ON GND											5	T								T	T									
UNIONVILLE	SNOWFALL											2.8																			
	SN ON GND																														
WOODSTOCK	SNOWFALL											6.5																			
	SN ON GND											7	2																		
APPALACHIAN MOUNTAIN 07																															
CUMBERLAND 2	SNOWFALL											3.0	2.0																		
	SN ON GND											3	5	2																	
FROSTBURG 2	SNOWFALL						T	T	T			T	6.5	3.0																	
	SN ON GND												6	7	7	3	T	T	T			.3	6.0	2.0	6					T	
HANCOCK FRUIT LAB	SNOWFALL											2.0	3.0																		
	SN ON GND											2	5	3	1																
ALLEGHENY PLATEAU 08																															
MC HENRY 2 NW	SNOWFALL											T	9.0	6.0																	
	SN ON GND												7	10	6	4	2	T				1.0	3.0	1.0							
OAKLAND 1 SE	SNOWFALL												4.5	3.8																	
	SN ON GND												5	8	4	T	T					6.0	3.0								
SAVAGE RIVER DAM	SNOWFALL													3.0	4.0																
	SN ON GND													3	4	2	1	1													
DELAWARE																															
NORTHERN 01																															
MIDDLETOWN 3 E	SNOWFALL																														
	SN ON GND																														
NEWARK UNIVERSITY FARM	SNOWFALL																														
	SN ON GND																														
WILMINGTON WSO AP	SNOWFALL																														
	SN ON GND																														
	WTR EQUIV																														
WILMGTN PORTER RESVR	SNOWFALL																														
	SN ON GND																														
SOUTHERN 02																															
GEORGETOWN 5 SW	SNOWFALL																														
	SN ON GND																														
LEWES	SNOWFALL																														
	SN ON GND																														

SNOWFALL: INCLUDES SNOW AND ICE
 SNOW ON GROUND: INCLUDES SNOW, SLEET, ICE AND HAIL
 WATER EQUIVALENT: GIVEN FOR NWS STATIONS ONLY, WHEN SNOW DEPTH IS 2 INCHES OR MORE
 SEE REFERENCE NOTES FOLLOWING STATION INDEX

SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND
DELAWARE
NOVEMBER 1987

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
MILFORD 4 SE	SNOWFALL SN ON GND												1.5									T										

SNOWFALL: INCLUDES SNOW AND ICE.
 SNOW ON GROUND: INCLUDES SNOW, SLEET, ICE AND HAIL.
 WATER EQUIVALENT: GIVEN FOR NWS STATIONS ONLY, WHEN SNOW DEPTH IS 2 INCHES OR MORE.
 SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
NOVEMBER 1987

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	2730	02	KENT	39 9	75 31W	30	17	17		H	STATE DIV OF HIGHWAYS
GEORGETOWN 5 SW	35700	02	SUSSEX	38 38	75 27W	45	08	08	08	C	UNIV OF DEL SUBSTATION
GREENWOOD 2 NE	35950	02	SUSSEX	38 50	75 35W	45	18	18		C	DANIEL M SWARTZENTRUBER
LEWES	33200	02	SUSSEX	38 46	75 8W	15	17	17			BOARD OF PUBLIC WORKS
MIDDLETOWN 3 E	38520	01	NEW CASTLE	39 27	75 40W	55	17	17		H	DAVID S NEYHARD
MILFORD 4 SE	39150	02	SUSSEX	38 54	75 28W	30	17	17		H	DAVID S SCHLOTT
NEWARK UNIVERSITY FARM	64100	01	NEW CASTLE	39 40	75 44W	90	17	17	17	C	UNIV OF DELAWARE
WILMINGTON WSO AP	95950	01	NEW CASTLE	39 40	75 36W	79	MID	MID		C	NATL WEATHER SERVICE
WILMINGTON PORTER RESVR	96050	01	NEW CASTLE	39 46	75 32W	274	MID	MID		H	WATER DEPARTMENT

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

MARYLAND AND
DELAWARE
NOVEMBER 1987

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, Asheville, North Carolina.

SUBSCRIPTION, PRICE AND ORDERING INFORMATION AVAILABLE FROM:
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FEDERAL BUILDING
ASHEVILLE, NC 28801-2696

USCOMM-NOAA-ASHEVILLE, N.C. NOVEMBER 1987-0585

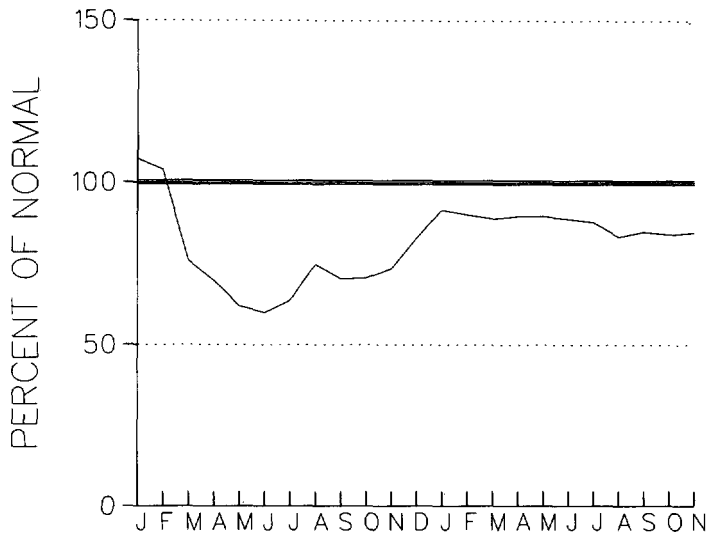
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE LAST 23 MONTHS
ENDING NOVEMBER 1987
MARYLAND

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

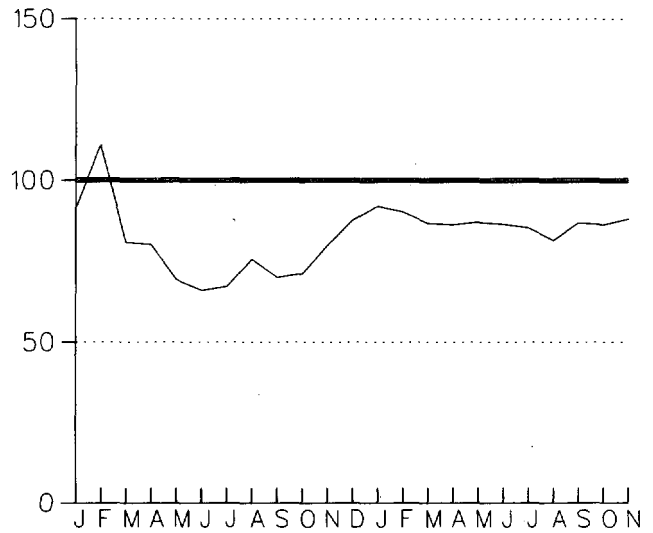
CLUSTER 2 -DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

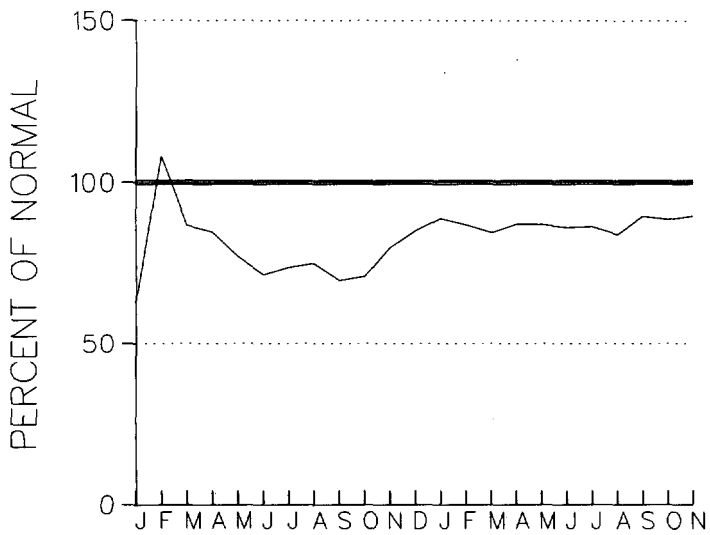
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



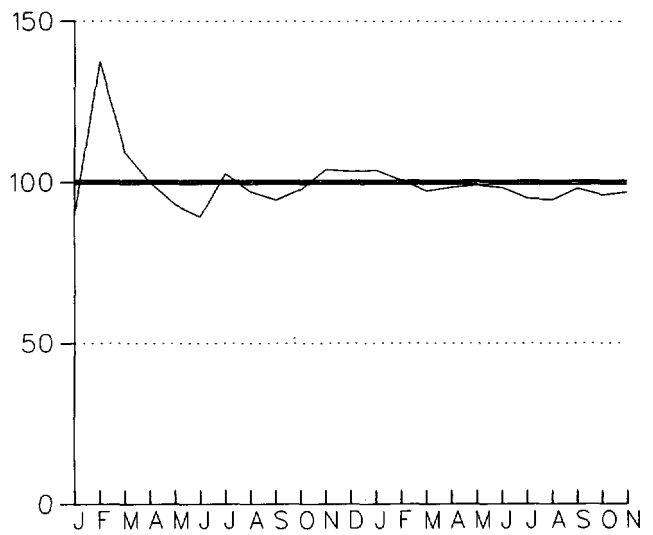
CLUSTER 1



CLUSTER 2



CLUSTER 3

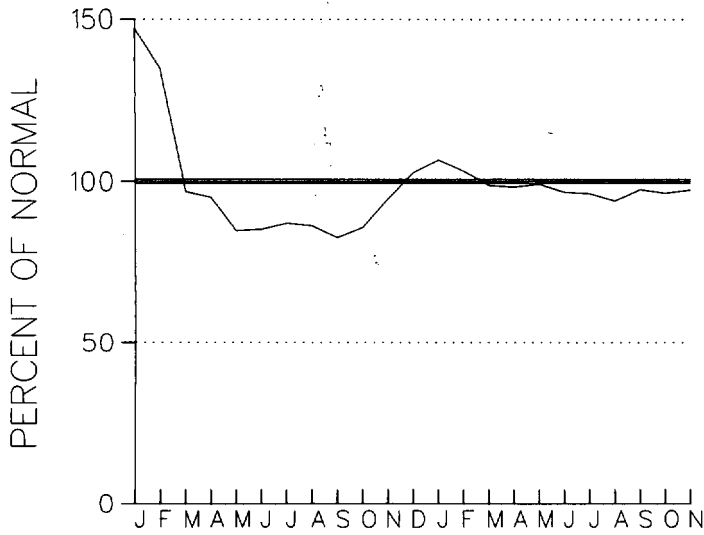


CLUSTER 4

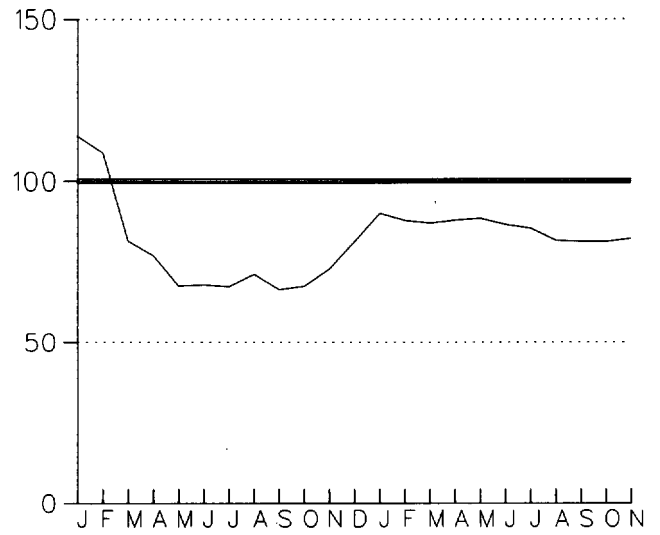
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
 FOR THE LAST 23 MONTHS
 ENDING NOVEMBER 1987
 DELAWARE

CLUSTER 1 - DIVISION(S):
 NORTHERN 01

CLUSTER 2 - DIVISION(S):
 SOUTHERN 02



CLUSTER 1



CLUSTER 2

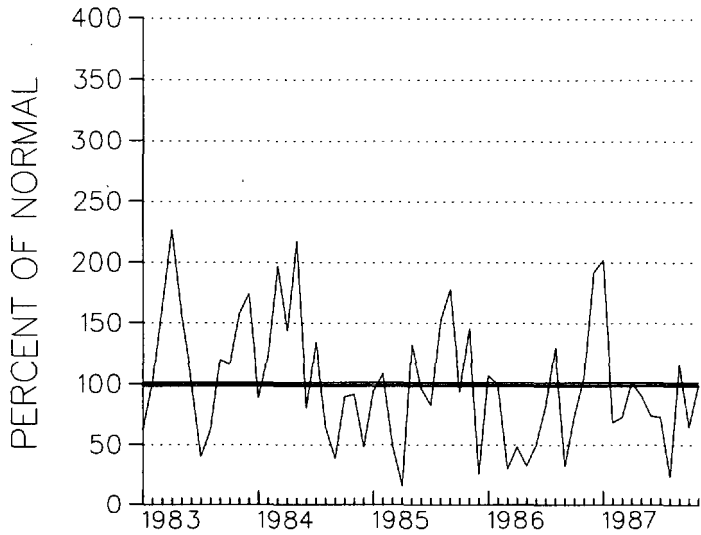
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE 59 MONTHS
ENDING NOVEMBER 1987
MARYLAND

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

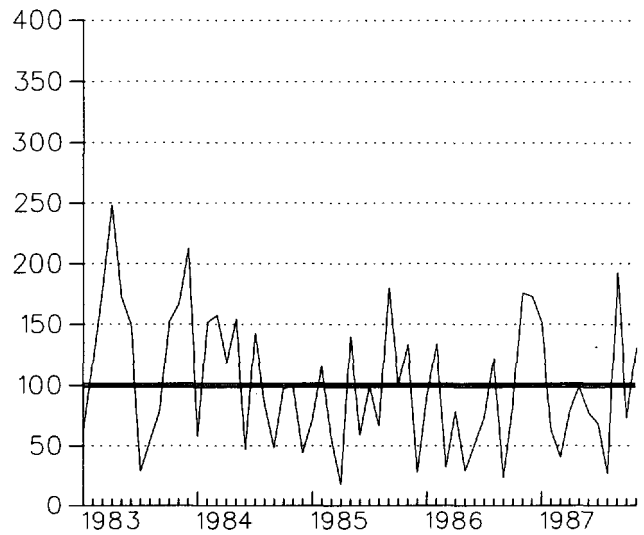
CLUSTER 2 -DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

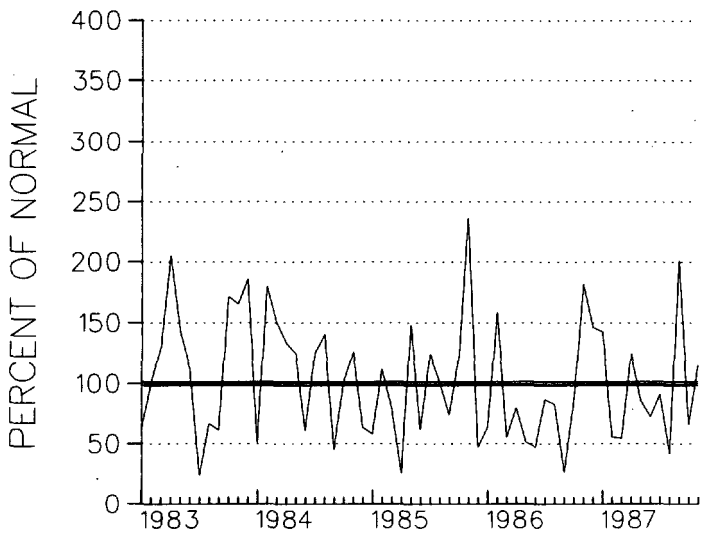
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



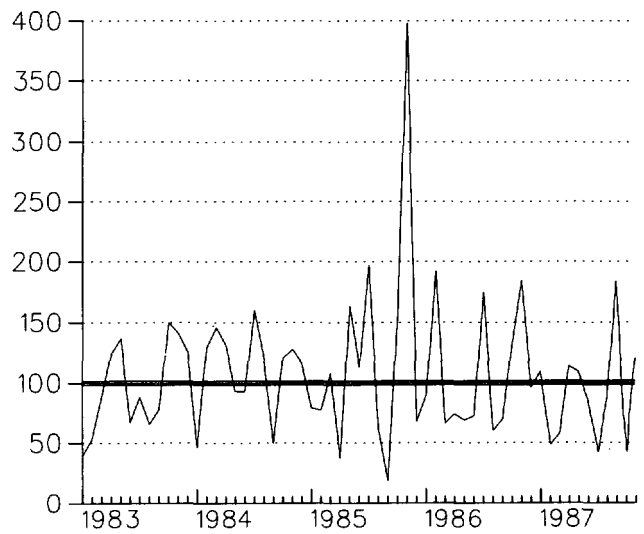
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CLUSTER 2



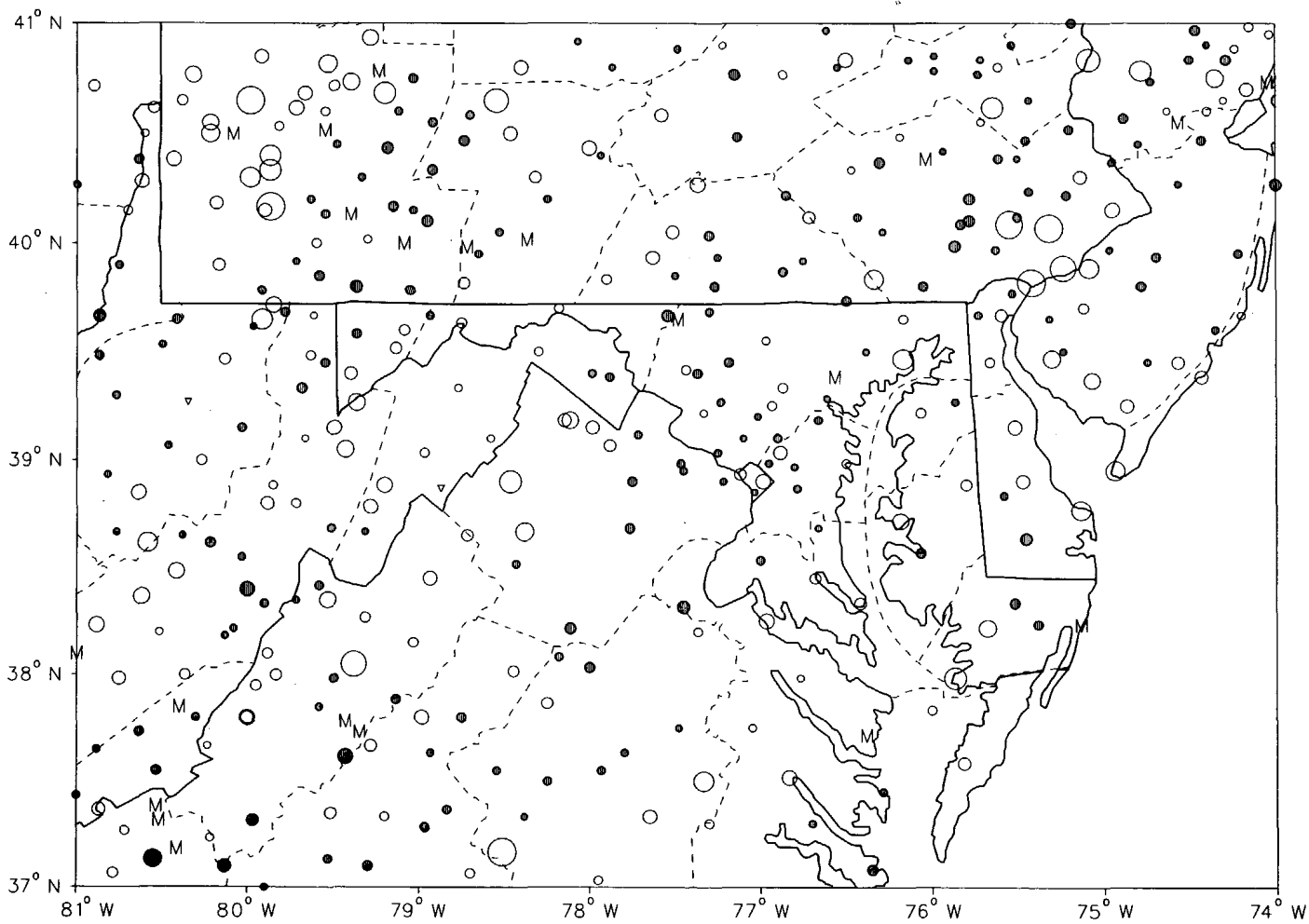
CLUSTER 3



CLUSTER 4

MONTHLY PRECIPITATION DEPARTURE FROM
 THE DIVISIONAL AVERAGE FOR
 NOVEMBER 1987
 MARYLAND & DELAWARE

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



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

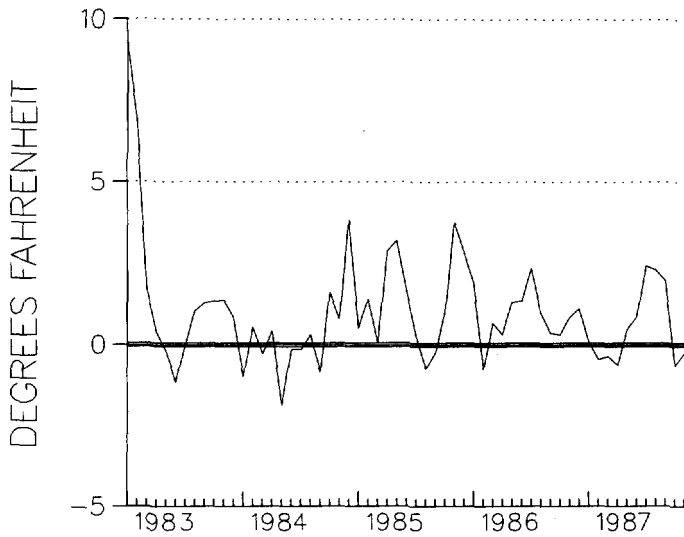
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)
 THREE MONTH RUNNING MEAN
 FOR THE 59 MONTHS ENDING WITH NOVEMBER 1987 DATA
 MARYLAND

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

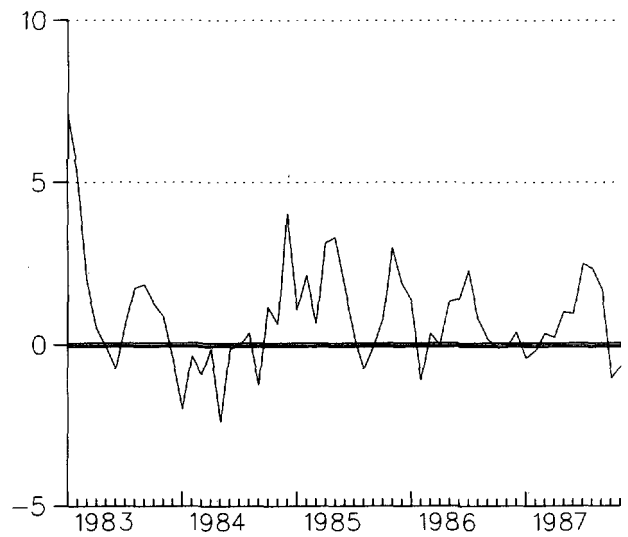
CLUSTER 2 -DIVISION(S):
 UPPER SOUTHERN 04
 NORTHERN EASTERN SHORE 05

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

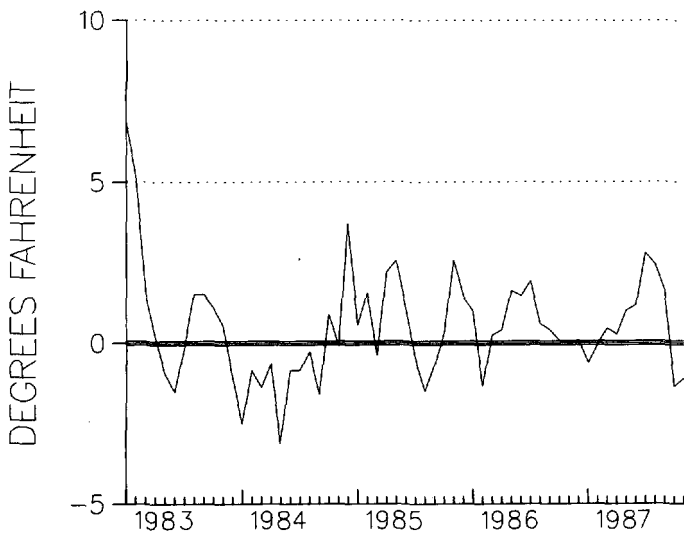
CLUSTER 4 -DIVISION(S):
 ALLEGHENY PLATEAU 08



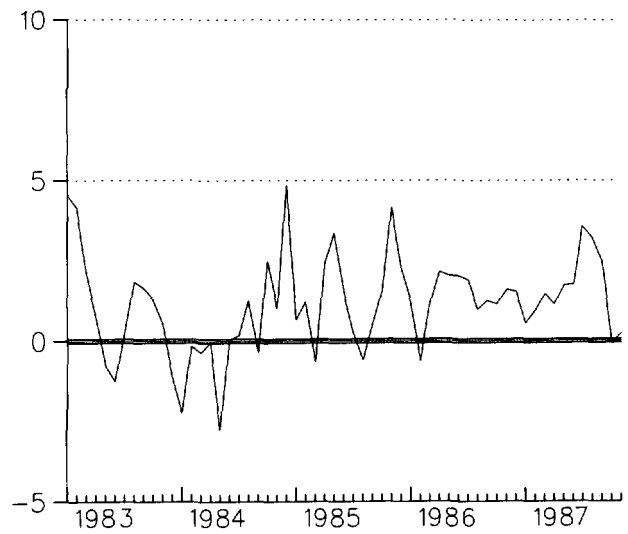
CLUSTER 1



CLUSTER 2



CLUSTER 3

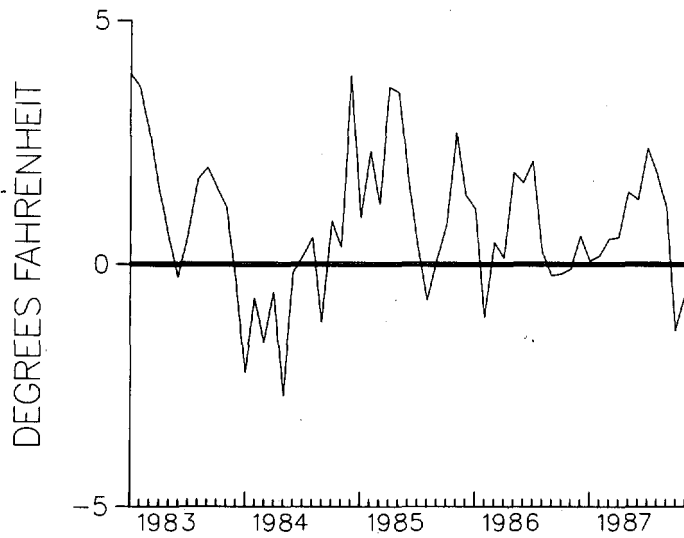


CLUSTER 4

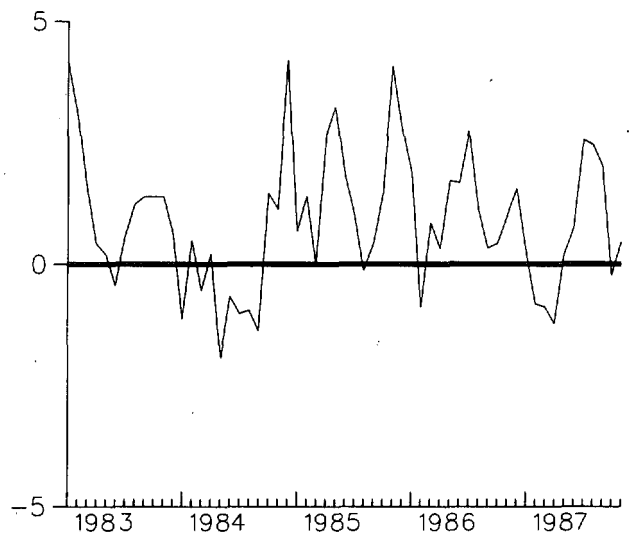
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)
THREE MONTH RUNNING MEAN
FOR THE 59 MONTHS ENDING WITH NOVEMBER 1987 DATA
DELAWARE

CLUSTER 1 - DIVISION(S):
NORTHERN 01

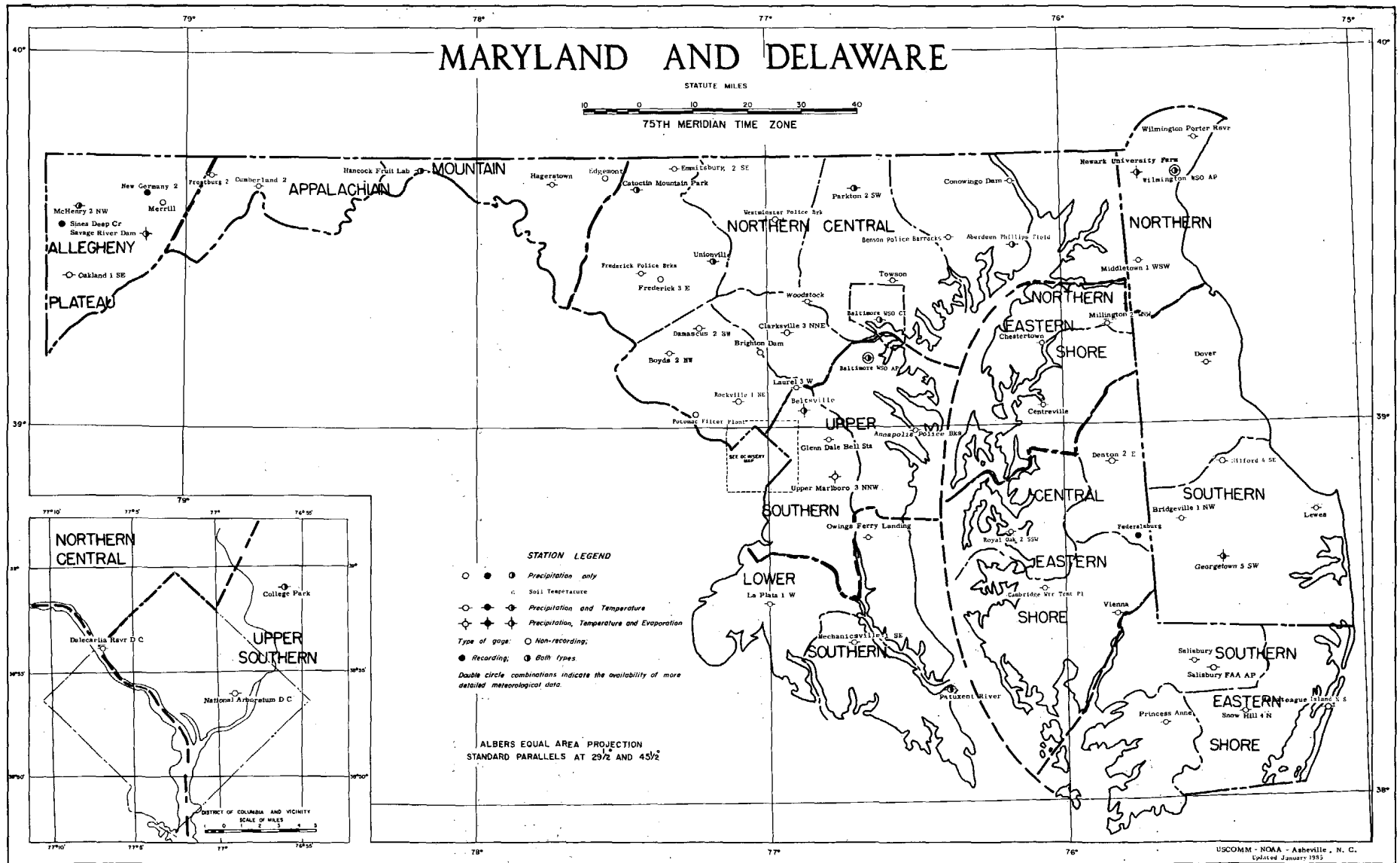
CLUSTER 2 - DIVISION(S):
SOUTHERN 02



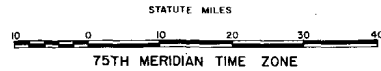
CLUSTER 1



CLUSTER 2



MARYLAND AND DELAWARE



STATION LEGEND

- ● ○ Precipitation only
- ● Soil Temperature
- ● ● Precipitation and Temperature
- ● ● ● Precipitation, Temperature and Evaporation
- Type of gage: ○ Non-recording; ● Recording; ● Both types
- Double circle combinations indicate the availability of more detailed meteorological data.

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29°/2 AND 45°/2

CD
VALIDATED BY:

Ted Burlew
Jan Carpenter
Betty Edstrom
Bruce Emory
Joyce Morgan
Betty Shuford

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