



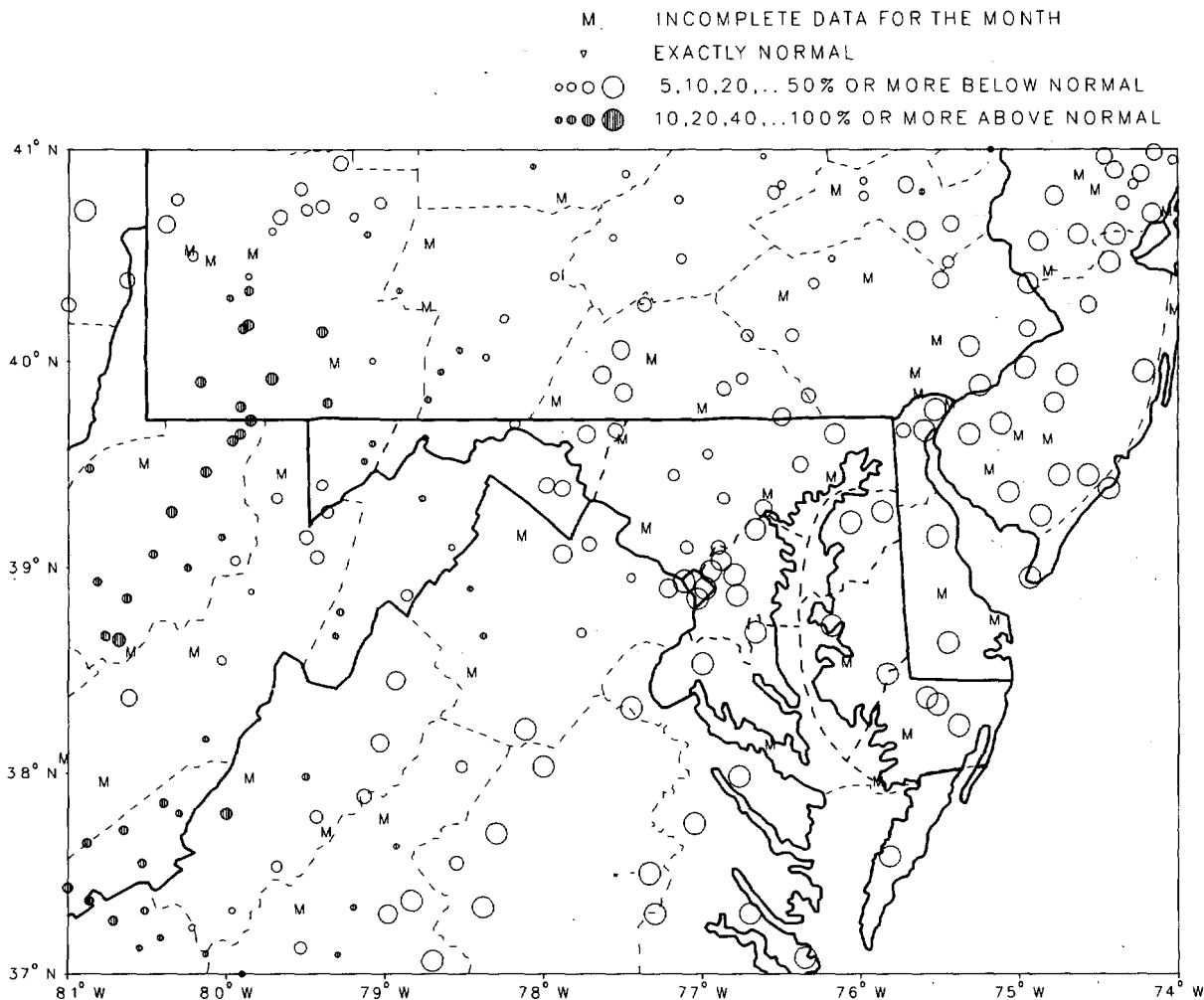
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CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

NOVEMBER 1991

VOLUME 95 NUMBER 11

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



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

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DIRECTOR, NATIONAL CLIMATIC DATA CENTER

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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 1991

MARYLAND
HIGHEST TEMPERATURE 80
LOWEST TEMPERATURE 7
GREATEST TOTAL PRECIPITATION 3.41
LEAST TOTAL PRECIPITATION .27
GREATEST 1 DAY PRECIPITATION 2.08
GREATEST TOTAL SNOWFALL 3.5
GREATEST DEPTH OF SNOW OR ICE 1

DELAWARE
HIGHEST TEMPERATURE 76
LOWEST TEMPERATURE 17
GREATEST TOTAL PRECIPITATION 2.28
LEAST TOTAL PRECIPITATION .54
GREATEST 1 DAY PRECIPITATION 1.42

NOVEMBER 21
NOVEMBER 27

NOVEMBER 22
NOVEMBER 26

NOVEMBER 21
NOVEMBER 27

NOVEMBER 22

HANCOCK
OAKLAND 1 SE
MC HENRY 2 NW
VIENNA
WOODSTOCK
MC HENRY 2 NW
MC HENRY 2 NW

DOVER
GEORGETOWN 5 SW
NEWARK UNIVERSITY FARM
DOVER
NEWARK UNIVERSITY FARM

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
NOVEMBER 1991

STATION	TEMPERATURE (°F)												PRECIPITATION (IN)											
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
											90 OR ABOVE MAX	32 OR BELOW MIN	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 IS NATL SEA	57.2	38.8	48.0		77	2	22	5	502	0	0	0	9	0	1.26		.61	10		M	M	3	1	0
PRINCESS ANNE	60.3	39.4	49.9	.4	75	22	21	27	452	5	0	0	8	0	.44	-2.67	.18	10		M	M	2	0	0
SALISBURY	59.0	37.8	48.4	.7	74	22+	17	27	496	7	0	0	11	0	.63	-2.43	.35	10		M	M	3	0	0
SALISBURY FAA ARPT	60.4	38.7	49.6	1.1	75	20	18	27	462	4	0	0	9	0	1.06	-2.32	.70	10		M	M	2	1	0
SNOW HILL 4 N			49.0	.1											.85	-2.34								
--DIVISIONAL DATA----->																								
CENTRAL EASTERN SHORE 02																								
CAMBRIDGE WATER TRMT P	57.5	40.3	48.9	.0	74	21	22	27	479	2	0	0	6	0	.90	-2.83	.36	22		M	M	3	0	0
ROYAL OAK 2 SSW	59.2	36.9	48.1	-.9	73	22+	19	27	500	1	0	0	11	0	.27	-3.05	.11	10		T	T	2	0	0
VIENNA			48.5	.0										.59	-2.94									
--DIVISIONAL DATA----->																								
LOWER SOUTHERN 03																								
LA PLATA 1 W	59.0	38.9	49.0	1.7	76	30	18	27	480	5	0	0	9	0	1.04	-2.16			T	T	1	0	0	
MECHANICSVILLE 5 NE	57.7	37.5	47.6		75	30	17	27	520	6	0	0	10	0	.86		.44	22		T	T	3	0	0
OWINGS FERRY LANDING	57.0	37.4	47.2	-.7	74	21	17	27	530	4	0	0	10	0	.93	-2.40	.34	22		T	T	4	0	0
--DIVISIONAL DATA----->																								
UPPER SOUTHERN 04																								
ANNAPOLIS POLICE BRKS	58.2	38.6	48.4		77	30	21	27	492	1	0	0	8	0	1.73		1.01	22		T	T	5	1	1
BALTIMORE WSO ARPT	55.9	35.7	45.8	-.5	74	20	18	27	570	2	0	0	12	0	1.69	-1.42	1.04	22		T	T	3	1	1
BELTSVILLE	56.3	34.9	45.6	.6	76	21	17	27	579	4	0	0	12	0	1.59	-1.38	.72	23		T	T	3	2	0
COLLEGE PARK	57.2	37.8	47.5	.6	77	21	19	27	527	10	0	0	9	0	1.43	-1.67	.65	23		T	T	3	2	0
DALECARLIA RESVR DC	58.1	30.2	44.2	-2.8	76	20	11	27	618	0	0	0	20	0	1.42	-1.73	1.08	22		T	T	2	1	1
GLENN DALE BELL STN	59.5	34.1	46.8	.5	75	29+	14	27	545	6	0	0	16	0	1.28	-2.06	.51	22		T	T	4	1	0
LAUREL 3 W	57.1	36.7	46.9	-.6	76	20	21	26+	538	1	0	0	14	0	2.50	-.90	1.70	22		T	T	4	1	1
NATIONAL ARBORETUM DC	57.1	37.6	47.4	-.7	76	22+	22	28+	532	8	0	0	9	0	1.06	-2.02	.55	23		T	T	4	1	0
UPPER MARLBORO 3 NNW	57.8	35.0	46.4		77	22	15	27	559	10	0	0	13	0	1.20	-1.96			T	T	2	0	0	
--DIVISIONAL DATA----->																								
NORTHERN EASTERN SHORE 05																								
CHESTERTOWN	56.1	36.8	46.5	-.5	76	21	20	27	550	3	0	0	11	0	.90	-2.56	.58	22		T	T	3	1	0
MILLINGTON 1 SE	57.8	36.4	47.1	1.0	75	21	17	27	535	4	0	0	9	0	.87	-2.60	.50	22		T	T	3	1	0
--DIVISIONAL DATA----->																								
NORTHERN CENTRAL 06																								
ABERDEEN PHILLIPS FLD	58.7	43.9	51.3	2.1	73	20	20	27	410	6	0	0	7	0	1.68		1.10	22		M	M	2	1	1
BALTIMORE WSO CITY	57.8	37.6	47.7	2.4	78	20	30	5	510	0	0	0	3	0	2.08	-1.26	1.32	22		M	M	3	1	1
BENSON POLICE BARRACKS					76	20	20	27					8	0	2.68	-1.21	1.21	22		M	M	4	2	1
CATOCTIN MOUNTAIN PARK																								
CLARKSVILLE 3 NNE	57.0	33.1	45.1		76	30+	13	27	596	4	0	0	16	0	2.53		1.83	22		M	M	4	1	1
CONOWINGO DAM		30.2			72	2	15	27					0	0	1.87	-1.61	1.21	22		T	T	4	1	1
DAMASCUS 2 SW	53.4	37.0	45.2		74	20	21	5	588	1	0	0	12	0	2.64		2.03	22		T	T	3	1	1
EMMITSBURG 2 SE	54.4	34.2	44.3		74	20	14	27	613	0	0	0	15	0	2.17		1.50	22		T	T	5	1	1
FREDERICK POLICE BRKS	57.0	37.8	47.4		75	21+	20	27	524	3	0	0	8	0	2.29		1.70	22		T	T	3	1	1
MILLERS 4 NE	52.8	36.6	44.7		72	20	16	27	599	0	0	0	12	0	2.24		1.70	22		T	T	3	1	1
ROCKVILLE 1 NE	55.3	36.8	46.1	-.2	74	20	18	27	563	2	0	0	12	0	2.34	-.72	1.63	22		T	T	3	1	1
TOWSON																								

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
NOVEMBER 1991

STATION	TEMPERATURE (°F)													PRECIPITATION (IN)										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
											90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE
UNIONVILLE	54.8	31.8	43.3	.1	74	20	13	27	645	0	0	0	16	0	2.52	-.57	1.97	22	.0	0		3	1	1
WESTMINSTER POLICE BRK	55.9	36.3	46.1	1.8	73	21+	21	28+	564	3	0	0	15	0	2.78	-.43	1.60	22	.0	0		4	2	1
WOODSTOCK	56.9	35.8	46.4	1.7	76	20	16	27	554	2	0	0	13	0	2.60	-.68	2.08	22	.0	0		3	1	1
--DIVISIONAL DATA----->			46.1	.9											2.40	-.95			.0					
APPALACHIAN MOUNTAIN 07																								
CUMBERLAND 2	54.2	32.2	43.2	-.9	78	20	15	26	645	0	0	0	16	0	2.49	.08	.96	22	.0	0		3	3	0
FROSTBURG 2	47.0	30.9	39.0		73	21	12	6	774	0	0	0	4	19	2.93		.95	22	.6	0		4	3	0
HAGERSTOWN	53.6	34.4	44.0	-.3	76	21	18	27	623	0	0	0	14	0	1.85	-1.17	.87	22	.0	0		3	2	0
HANCOCK	54.8	29.5	42.2	-.6	80	21	11	27	678	0	0	0	19	0	2.26	-.41	1.05	22	.0	0		3	3	1
--DIVISIONAL DATA----->			42.1	-1.5											2.38	-.36			.2					
ALLEGHENY PLATEAU 08																								
MC HENRY 2 NW	44.7	29.2	37.0		71	21	10	6+	834	0	0	0	6	19	3.41		1.12	22	3.5	126+		5	3	2
OAKLAND 1 SE	49.3	29.1	39.2	.0	73	20	7	27+	767	0	0	0	2	19	2.59	-.55	1.25	22	3.0	T		4	1	1
SAVAGE RIVER DAM	49.2	28.4	38.8	-1.5	75	21	12	28+	778	0	0	0	2	21	2.53	.18	.94	11	T	T		3	3	0
--DIVISIONAL DATA----->			38.3	-.8											2.84	-.16			2.2					
DELAWARE																								
NORTHERN 01																								
NEWARK UNIVERSITY FARM	55.7	36.5	46.1	.3	73	20	20	27+	558	1	0	0	10	0	2.28	-.91	1.42	22	.0	0		5	1	1
WILMINGTON WSO ARPT	55.7	37.9	46.8	1.2	73	20	23	27	541	2	0	0	10	0	1.26	-2.07	.82	22	T	T		2	1	0
WILMINGTON PORTER RSVR	53.0	38.6	45.8	.6	72	21	24	27	572	4	0	0	9	0	1.69	-2.07	1.27	22	.0	0		3	1	1
--DIVISIONAL DATA----->			46.2	.4											1.74	-1.64			.0					
SOUTHERN 02																								
DOVER	59.2	39.2	49.2	1.0	76	21	20	27	477	9	0	0	9	0	.54	-2.99	.28	22	.0	0		2	0	0
GEORGETOWN 5 SW	58.1	37.2	47.7	.5	74	24+	17	27	518	4	0	0	9	0	.96	-2.33	.78	11	.0	0		2	1	0
GREENWOOD 2 NE	56.7	38.3	47.5		73	21	18	27	526	6	0	0	8	0	.62		.33	10	.0	0		2	0	0
LEWES	58.9	42.4	50.7	2.7	75	21	25	27	432	9	0	0	7	0	.95		.43	11	.0	0		3	0	0
--DIVISIONAL DATA----->			48.8	1.0											.71	-2.66			.0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
NOVEMBER 1991

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MARYLAND																																
SOUTHERN EASTERN SHORE 01																																
ASSATEAGUE IS NATL SEA PRINCESS ANNE	1.26	-	-	-	-	-	-	-	-	-	.61	.30	-	-	-	-	-	-	-	-	-	-	.03	.07	.25	-	-	-	-	-	-	-
SALISBURY	.44										.18	.09	T	-	-	-	-	-	-	-	-	T	.11	.06	T							
SALISBURY FAA ARPT	.63				T					T	T	.35	.07		T			T				T	.11	.06	T							
SNOW HILL 4 N	1.06										.70	.06									T		T	.04	.26							
CENTRAL EASTERN SHORE 02																																
CAMBRIDGE WATER TRMT P	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROYAL OAK 2 SSW	.90		.05		T					T	T	.20	.19	.01	.03			T				T		.36	.06							
VIENNA	.27											.11	.10										.06									
LOWER SOUTHERN 03																																
LA PLATA 1 W	1.04		T		T					T	T	.10	.08		.03								*	.83								
MECHANICSVILLE 5 NE	.86				T					T	.03	.11	.04		.03							T	.44	.21								
OWINGS FERRY LANDING	.93										T	.20	.14	T	.03								.34	.22	T							T
UPPER SOUTHERN 04																																
ANNAPOLIS POLICE BRKS	1.73										.26	.20		.12									1.01	.14								
BALTIMORE WSO ARPT	1.69	.01								T	T	.45	.01	.03	T			T				.13	1.04									.02
BELTSVILLE	1.59										.03	.02	.20	.06									.56	.72								
COLLEGE PARK	1.43											.19	.07	T	.07								.52	.65								
DALECARLIA RESVR DC	1.42										.15	.05		.09		.02							1.08	.02					.01			
GLENN DALE BELL STN	1.28		.02		T					T		.05	.15	.11									.51	.44								
LAUREL 3 W	2.50										.39	.02	.04									.20	1.70									.13
NATIONAL ARBORETUM DC	1.06										.06	.19	.01	.11									.14	.55								
UPPER MARLBORO 3 NNW	1.20										.02	.20		.14									*	.64								
NORTHERN EASTERN SHORE 05																																
CHESTERTOWN	.90																															
MILLINGTON 1 SE	.87									T	.05	.13	.03	T	.11								.58									T
											.12	.08			.10								.50	.07								
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD	M 1.68										*	*	*	.20	.16								T	1.10	*	*	.22					
BALTIMORE WSO CITY	2.08										.46	.04	.09									.15	1.32									.02
BENSON POLICE BARRACKS	2.68										.36	.30	.03	.09	.06								1.21	.57	.03							.03
CATOCTIN MOUNTAIN PARK	M	-	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLARKSVILLE 3 NNE	2.53				T						.26	.18	.02	.05									T	1.83	.17							
CONOWINGO DAM	1.87										.36	.11		.05									.02	1.21	.12							
DAMASCUS 2 SW	2.64				T						.29	.17	.01	.06									.03	2.03								.05
EMMITSBURG 2 SE	2.17										.10	.20		.05		T							.10	1.50	.15	T						.07
FREDERICK POLICE BRKS	2.29										.21	.16	.05	.03									.02	1.70	.04	.03						.05
MILLERS 4 NE	2.24		T		T						.22	.21	.03	.07		T	T						T	1.70								.01
POTOMAC FILTER PLANT	2.41									.01	.33	.07	.07	.03									.35	1.43								.12
ROCKVILLE 1 NE	2.34				T					.02	.32	.02	.02				T						.32	1.63								.01
TOWSON	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNIONVILLE	2.52										.13	.18	.08	.06									.08	1.97								.02
WESTMINSTER POLICE BRK	2.78		.03								.50	.32	.04	.08									.05	1.60	.15							.01
WOODSTOCK	2.60										.23	.18		.07				T					T	2.08								.04
APPALACHIAN MOUNTAIN 07																																
CUMBERLAND 2	2.49											.80		T									.96	.73							T	
EDMONT	2.35										.01	.64	.09	.09				T					1.08	.44							T	
FROSTBURG 2	2.93		T			T				T		.88	.02	.02	T	T	.13	.03				.01	T	.86	.95	T	T	.02	T	T	.01	
HAGERSTOWN	1.85										T	.51	.01	.08									.87	.38							T	
HANCOCK	2.26											.65		.05									1.05	.50							.01	

SEE REFERENCE NOTES FOLLOWING STATION INDEX
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DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
NOVEMBER 1991

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ALLEGHENY PLATEAU 08																																
MC HENRY 2 NW	3.41		T						T	T		.72	.16	.09				.22			T	T	1.12	1.00	.02	.04	.02		T	.02	.02	
MERRILL	2.93											1.00	.05	.05			.05	.10				.12	.95	.64								
OAKLAND 1 SE	2.59				T	T			T		.40	.30	.07				.06			T		.34	1.25	.08	T	.06	T			.03		
SAVAGE RIVER DAM	2.53					T						.94	T	T	T	T	T	T			T	T	.89	.67	T	T	T		T	.03		
DELAWARE																																
NORTHERN 01																																
NEWARK UNIVERSITY FARM	2.28										.15	.20		.15									1.42	.36								
WILMINGTON WSO ARPT. R	1.26								T	.01	.19	.04	.06	.06		T						.07	.82									.01
WILMINGTON PORTER RSVR	1.69										.20	.11	.02	.02								.07	1.27									T
SOUTHERN 02																																
DOVER	.54										.08	.16		.02																		
GEORGETOWN 5 SW	.96				.05						.01	.78		.02																		
GREENWOOD 2 NE	.62								T		.33	.05		.01						T												
LENES.	M .95										.29	.43					T							.19	.04							

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
NOVEMBER 1991

STATION		OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
MARYLAND																																			
SOUTHERN EASTERN SHORE 01																																			
ASSATEAGUE IS NATL SEA		17	MAX	55	77	68	53	44	52	52	51	45	52	53	48	50	54	58	68	65	65	60	67	68	66	63	62	47	40	44	59	63	68	57.2	
			OBS	41	52	43	30	22	28	32	35	33	40	41	37	36	37	39	50	33	31	43	52	55	55	52	47	31	26	25	***	29	42	47	38.8
			MIN										18															45			***	62			
PRINCESS ANNE		17	MAX																																M
			MIN																																M
SALISBURY		17	MAX	61	73	66	51	45	54	56	52	46	54	54	52	52	63	70	71	67	57	64	74	73	75	72	65	51	42	48	61	68	73	60.3	
			MIN	48	51	45	39	28	23	28	36	36	38	40	36	37	33	39	50	35	26	42	55	58	63	51	49	31	27	21	29	41	46	39.4	
SALISBURY FAA ARPT		MID	MAX	59	73	57	47	47	55	57	52	46	54	54	51	52	63	70	69	52	56	66	73	74	74	71	63	46	42	46	60	68	73	59.0	
			MIN	47	53	45	34	27	21	26	34	37	40	40	38	32	32	37	49	27	23	42	55	63	61	50	38	27	23	17	25	45	47	37.8	
SNOW HILL 4 N		18	MAX	59	74	68	52	47	57	57	52	47	54	55	52	52	63	70	70	62	58	65	75	73	72	72	65	48	42	48	62	67	73	60.4	
			MIN	45	50	44	39	27	21	25	31	38	42	43	37	38	33	39	50	35	23	39	54	61	62	51	48	27	27	18	26	42	45	38.7	
CENTRAL EASTERN SHORE 02																																			
CAMBRIDGE WATER TRMT P		16	MAX																																M
			MIN																																M
ROYAL OAK 2 SSW		18	MAX	61	73	63	49	44	52	55	48	44	45	46	50	50	63	68	66	60	54	65	73	74	67	67	60	47	41	44	58	67	72	57.5	
			MIN	47	52	43	37	29	25	29	36	36	35	41	38	39	34	40	50	36	26	46	54	60	61	53	47	36	30	22	36	45	46	40.3	
VIENNA		18	MAX	65	73	55	58	51	55	56	48	49	52	50	52	56	64	65	70	62	54	62	71	70	73	71	66	52	40	46	57	63	71	59.2	
			OBS																																
			MIN	47	40	32	37	28	24	27	23	34	35	40	38	40	32	40	50	35	24	30	40	56	59	40	47	33	30	19	32	45	50	36.9	
			OBS																																
LOWER SOUTHERN 03																																			
LA PLATA 1 W		18	MAX	66	72	63	45	43	52	56	50	42	42	47	52	53	64	72	72	63	55	72	75	75	71	69	61	48	40	45	60	70	76	59.0	
			MIN	42	54	37	37	27	22	28	37	35	34	41	35	33	31	46	51	34	26	45	56	61	60	47	47	26	27	18	31	46	52	38.9	
MECHANICSVILLE 5 NE		19	MAX	63	74	59	44	43	52	54	45	41	43	46	52	51	63	71	73	59	55	71	74	74	68	67	55	44	40	44	60	70	75	57.7	
			MIN	41	53	37	34	24	19	25	34	33	34	40	33	34	30	40	53	31	23	42	54	63	65	48	44	24	26	17	29	46	48	37.5	
OWINGS FERRY LANDING		17	MAX	63	69	62	46	43	51	53	44	40	42	45	50	50	63	70	69	60	54	67	73	74	70	66	56	45	39	42	60	70	73	57.0	
			MIN	42	50	36	35	24	20	26	35	34	33	39	32	33	30	40	51	35	24	42	53	60	64	49	44	26	26	17	29	44	49	37.4	
UPPER SOUTHERN 04																																			
ANNAPOLIS POLICE BRKS		17	MAX	62	71	64	51	44	50	53	50	42	49	47	53	51	63	65	69	61	53	64	75	76	66	66	60	47	47	45	54	70	77	58.2	
			MIN	44	53	41	36	26	25	30	38	35	34	40	33	35	33	43	53	37	28	41	47	55	59	51	46	32	26	21	31	40	44	38.6	
BALTIMORE WSO ARPT		MID	MAX	65	69	53	42	45	52	56	46	42	44	46	50	48	61	70	66	52	54	63	74	73	64	66	54	38	40	43	59	71	71	55.9	
			MIN	44	48	36	28	26	22	28	37	33	33	38	31	34	31	42	45	29	25	37	43	61	56	50	33	27	22	18	26	44	43	35.7	
BELTSVILLE		08	MAX	66	66	67	52	38	45	53	56	42	41	45	46	50	51	64	71	68	54	56	65	76	74	68	68	52	40	40	45	61	70	56.3	
			MIN	41	49	33	34	24	19	24	33	32	33	34	31	33	30	34	46	32	24	32	40	56	61	52	40	33	26	17	22	37	44	34.9	
			OBS																																
COLLEGE PARK		09	MAX	68	67	69	52	39	46	53	57	43	42	45	49	51	53	65	71	69	53	52	66	77	75	73	69	52	42	42	46	60	70	57.2	
			MIN	43	54	33	36	26	21	28	39	33	34	37	32	36	31	43	49	35	26	39	46	64	62	53	43	33	26	19	28	43	43	37.8	
DALECARLIA RESVR DC		17	MAX	66	69	61	49	44	46	55	50	41	42	47	50	52	65	71	69	60	56	61	76	75	74	68	62	45	42	44	61	70	73	58.1	
			MIN	32	47	26	27	17	22	30	29	19	21	31	22	26	22	44	41	26	18	28	42	54	52	45	36	24	18	11	22	39	34	30.2	
			OBS																																
GLENN DALE BELL STN		16	MAX	66	70	68	53	45	52	56	54	40	40	45	50	50	63	71	69	62	69	63	74	75	73	68	63	59	42	44	55	75	72	59.5	
			MIN	37	48	29	30	22	16	23	32	32	32	38	28	30	28	38	36	33	21	35	44	63	61	47	40	31	24	14	26	41	43	34.1	
			OBS																																
LAUREL 3 W		MID	MAX	67	69	62	46	45	53	54	44	42	42	45	50	50	64	71	69	55	53	63	76	73	74	70	53	40	40	43	59	72	70	57.1	
			MIN	49	44	42	26	21	25	38	32	32	37	29	32	32	34	51	44	31	27	44	49	58	54	48	33	25	21	22	30	42	50	36.7	
NATIONAL ARBORETUM DC		08	MAX	67	67	70	53	39	45	53	56	42	42	43	47	51	52	64	72	70	54	56	64	76	76	69	70	54	41	41	46	62	71	57.1	
			MIN	44	45	34	37	28	24	27	36	35	34	38	32	35	33	36	50	38	28	30	44	60	63	55	45	35	29	22	22	40	49	37.6	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
NOVEMBER 1991

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
UPPER MARLBORO 3 NNW	08	MAX MIN	67 37	66 48	70 33	54 32	40 21	45 26	54 23	56 34	43 33	42 33	43 34	46 31	51 35	52 29	65 32	73 46	72 33	54 23	57 26	67 46	76 62	77 65	70 52	69 43	55 28	45 26	42 15	45 19	64 34	75 50	57.8 35.0	
NORTHERN EASTERN SHORE	05																																	
CHESTERTOWN	23	MAX MIN	59 48	71 50	51 38	42 31	46 26	53 23	55 26	43 38	43 33	42 35	46 38	50 36	51 36	62 32	70 38	67 37	52 31	56 25	65 39	74 45	76 60	68 57	63 51	55 37	42 32	42 27	45 20	57 28	67 42	71 46	56.1 36.8	
MILLINGTON 1 SE	18	MAX OBS MIN OBS	66 42	71 48	63 40	47 34	47 26	52 20	56 24	56 24	45 34	43 35	47 38	49 36	51 34	61 29	71 35	65 47	58 34	54 22	65 37	73 46	75 60	68 64	67 57	59 42	44 35	42 28	42 17	56 26	69 37	71 43	57.8 36.4	
NORTHERN CENTRAL	06																																	
ABERDEEN PHILLIPS FLD	16	MAX MIN	65 54			40 38	45 26	49 22	52 28	51 41				51 33	49 36	60 31	65 45			52 28	60 38	73 45	70 62	70 62			41 37	42 26	41 20		45		M M	
BALTIMORE WSO CITY	MID	MAX MIN	66 55	72 50	56 45	46 33	48 30	54 34	58 39	46 39	42 36	44 37	49 42	52 41	53 42	67 44	73 53	70 50	56 42	55 39	66 49	78 54	75 65	66 62	68 55	58 40	45 34	45 31	47 32	59 39	72 52	74 53	58.7 43.9	
BENSON POLICE BARRACKS	17	MAX MIN	65 50	70 51	65 37	51 36	48 25	53 21	54 27	57 38	41 30	41 34	46 39	50 36	49 35	62 33	67 40	67 45	62 36	55 27	65 38	76 43	71 56	68 60	65 55	58 44	46 34	42 28	43 20	54 29	72 39	71 43	57.8 37.6	
CATOCTIN MOUNTAIN PARK	17	MAX MIN																																M M
CLARKSVILLE 3 NNE	17	MAX MIN	66 36	68 48	57 30	44 30	44 21	53 15	54 20	49 29	40 29	41 32	45 39	48 28	49 35	72 27	67 37	53 41	54 27	65 20	76 31	72 39	71 60	66 51	59 38	39 33	40 24	42 13	61 23	75 36	76 38	57.0 33.1		
CONOWINGO DAM	MID	MAX MIN	63 45	72 42	59 33	45 26	50 26	55 16	57 21	47 28	47 27	45 30	50 34	51 31	52 28	64 34	65 31	64 27	52 31	20 34	31 25	36 34	47 20	45 30	45 30	30 27	19 15	15 23	30 30	33 33		M	30.2	
DAMASCUS 2 SW	19	MAX MIN	64 44	63 50	50 34	38 27	41 21	50 25	50 30	41 35	37 26	39 31	42 35	45 34	47 34	60 35	70 48	64 37	49 32	53 30	62 40	74 54	69 62	65 57	65 51	54 36	36 28	37 23	40 23	58 32	70 45	68 51	53.4 37.0	
EMMITSBURG 2 SE	16	MAX MIN OBS	64 38	64 44	55 29	48 32	41 22	50 17	48 22	40 31	38 25	41 33	45 38	49 31	47 36	62 29	69 42	64 55	51 29	63 33	74 39	67 59	65 60	65 50	58 40	40 32	39 25	40 14	55 26	69 46	67 39	54.4 34.2		
FREDERICK POLICE BRKS	17	MAX MIN OBS	66 42	64 50	61 39	52 34	43 26	52 22	51 28	50 33	41 29	40 34	45 34	48 37	49 37	63 34	70 49	70 41	55 36	54 26	63 39	75 47	75 61	66 58	66 53	66 45	47 33	38 26	42 20	58 30	72 43	69 49	57.0 37.8	
MILLERS 4 NE	18	MAX MIN	61 46	63 50	52 34	41 30	40 20	50 21	50 27	41 34	37 27	38 32	42 37	47 33	47 35	60 33	68 45	61 50	52 31	25 37	68 37	72 49	66 61	64 59	61 53	54 37	37 30	37 23	40 16	54 30	68 44	67 48	52.8 36.6	
ROCKVILLE 1 NE	MID	MAX MIN	66 46	66 42	51 35	41 26	41 24	51 20	53 26	43 34	40 29	41 32	45 37	48 36	50 35	62 32	72 49	67 43	50 33	53 28	64 42	74 50	72 61	67 58	67 52	54 34	38 27	38 23	42 18	60 32	72 43	70 56	55.3 36.8	
TOWSON	18	MAX MIN																																M M
UNIONVILLE	17	MAX MIN	65 33	65 46	52 27	40 28	42 16	53 15	50 20	39 28	38 24	40 33	44 37	48 26	48 30	62 26	71 38	66 44	52 24	53 19	65 33	74 40	68 61	66 59	67 43	56 41	42 30	39 23	43 13	58 23	71 35	68 39	54.8 31.8	
WESTMINSTER POLICE BRK	17	MAX MIN	63 44	62 50	63 34	49 29	41 24	51 25	50 32	51 31	36 28	46 29	44 30	47 33	47 31	60 35	70 47	68 38	50 30	52 30	66 39	73 51	73 62	69 59	66 50	68 33	41 24	40 29	41 21	55 21	70 47	65 52	55.9 36.3	
WOODSTOCK	18	MAX MIN	67 41	67 51	59 34	47 33	45 22	52 18	55 25	45 35	40 29	41 32	45 38	48 31	49 33	64 29	73 42	65 46	58 32	54 24	65 35	76 44	71 63	70 60	66 50	55 40	41 31	41 24	44 16	60 25	74 43	71 48	56.9 35.8	
APPALACHIAN MOUNTAIN	07																																	
CUMBERLAND 2	18	MAX MIN	68 36	64 30	50 28	44 17	41 19	49 23	50 32	45 20	41 22	39 37	42 35	42 38	49 38	67 29	73 44	68 47	52 24	49 26	64 38	78 43	73 56	61 52	64 39	56 29	37 23	37 15	37 16	53 30	73 40	61 41	54.2 32.2	
FROSTBURG 2	07	MAX MIN	64 41	59 40	51 29	41 21	28 14	33 12	49 24	47 28	31 19	33 19	35 29	34 31	38 30	41 31	59 40	65 51	51 28	44 28	46 29	67 42	73 50	62 53	55 45	55 36	36 22	25 17	28 15	39 16	55 38	65 48	47.0 30.9	
HAGERSTOWN	08	MAX MIN	66 39	64 43	62 33	53 31	37 20	41 23	51 27	48 32	39 23	39 24	40 35	44 34	48 35	47 33	62 35	73 50	64 30	50 25	51 27	67 43	76 53	66 60	65 53	65 42	46 32	38 22	39 18	41 20	54 38	72 52	53.6 34.4	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
NOVEMBER 1991

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HANCOCK	08	MAX MIN OBS	68 34 61 24 61 24	54 33 17 23	41 17 23	42 25 36 15	52 36 15	49 36 15	40 15	43 31 34 30	41 34 30	46 32 27 27	50 32 27 27	50 27 27	70 27	74 40	62 25 21	54 25 40	52 25 38 40	70 38 40	80 40	64 49 38	60 50 38	64 38	47 31 24 11	38 24 11	40 11	44 18 28 35	51 28 35	75 35	54.8 29.5			
ALLEGHENY PLATEAU MC HENRY 2 NW	08	MAX MIN	59 40 41 28	62 41 28	42 16 10 10	38 16 10 10	25 30 24 14	43 30 24 14	27 16 30 29	36 28 29 34	37 28 29 34	32 28 29 34	34 28 29 34	35 35 26 30	54 35 26 30	55 35 26 30	45 35 26 30	46 35 26 30	57 35 51 53	65 51 53	71 53	60 49 41 27	55 49 41 27	54 41 27	30 18 14 15	22 14 15	28 15	42 21 36 47	52 36 47	62 47	44.7 29.2			
OAKLAND 1 SE	17	MAX MIN	64 27 39 29	60 39 29	41 19 7 18	38 19 7 18	37 19 7 18	45 19 26 7	38 19 26 7	33 29 30 30	37 29 30 30	36 29 30 30	35 29 30 30	34 29 30 30	53 29 39 46	64 46 20 26	60 46 20 26	47 46 36 38	61 46 36 38	65 46 36 38	73 46 36 38	68 46 36 38	57 51 43 27	59 43 27	58 27 19 17	27 19 17	29 17	44 7 37 41 35	45 37 41 35	65 41 35	60 35	49.3 29.1		
SAVAGE RIVER DAM	08	MAX MIN	67 31 32 31	62 32 31	50 23 13 14	48 23 13 14	31 23 13 14	35 24 30 13	52 24 30 13	50 24 30 13	35 14 32 33	37 14 32 33	39 34 31 32	39 34 31 32	42 42 26 23	40 42 26 23	61 42 26 23	67 42 26 23	55 42 26 23	44 24 37 43	48 24 37 43	66 53 47 33	75 53 47 33	65 53 47 33	58 47 33	56 25 20 12	38 25 20 12	30 20 12	33 12 31 36	37 12 31 36	51 31 36	65 36	49.2 28.4	
DELAWARE NORTHERN	01																																	
NEWARK UNIVERSITY FARM	17	MAX MIN	61 50 51 39	69 51 39	61 34 26 20	48 34 26 20	45 26 20	52 25 34 33	52 25 34 33	47 34 33	44 35 38 35	42 35 38 35	45 38 35	47 35	50 34 31 36	59 31 36	67 45 31 24	66 45 31 24	49 31 24	55 24	63 36 41 60	73 41 60	71 60	69 60 56 43	63 56 43	58 43	44 32 26 20	39 26 20	43 20	52 26 37 38	66 37 38	71 38	55.7 36.5	
WILMINGTON WSO ARPT	MID	MAX MIN	62 48 50 39	70 48 50 39	53 32 28 24	42 32 28 24	47 30 39 35	52 30 39 35	53 30 39 35	46 37 39 37	46 37 39 37	44 37 39 37	47 39 37	49 36 34 41	50 36 34 41	60 40 30 28	66 40 30 28	66 40 30 28	50 40 44 62	53 40 44 62	64 40 44 62	73 40 44 62	72 60 53 37	69 60 53 37	62 53 37	42 31 26 23	41 26 23	43 23	53 29 44 42	67 29 44 42	72 42	55.7 37.9		
WILMINGTON PORTER RSVR	MID	MAX OBS MIN	61 52 50 39	66 50 39	53 30 27 26	42 30 27 26	47 30 27 26	50 32 32 33	42 32 33	42 32 33	44 35 39 37	43 35 39 37	48 38 35 42	49 38 35 42	51 40 33 29	59 40 33 29	61 40 33 29	44 40 33 29	48 40 33 29	57 41 50 65	69 50 65	72 65	66 59 53 36	62 53 36	56 36	41 30 26 24	40 26 24	41 24	50 33 44 47	65 44 47	70 47	53.0 38.6		
SOUTHERN DOVER	02	17	MAX MIN	62 50 50 41	72 50 41	70 36 27 23	51 36 27 23	54 28 40 36	54 28 40 36	44 36	46 38 39 36	50 36	46 36	50 36	48 36	61 32 37	71 41 35 26	70 41 35 26	56 41 35 26	56 41 35 26	67 42 51 61	75 51 61	76 61	75 65 55 41	73 55 41	62 41	50 32 27 20	42 27 20	44 20	56 30 48 52	67 48 52	74 52	59.2 39.2	
GEORGETOWN 5 SW	08	MAX OBS MIN	73 47 46 43	72 46 43	71 40 27 20	51 40 27 20	42 24 23 37	46 24 23 37	55 24 23 37	51 24 23 37	56 40 39 38	47 40 39 38	53 37	46 37	51 37	51 32 37	61 39 34 23	58 39 34 23	70 34 23	51 33 45 54	56 33 45 54	66 33 45 54	73 45 54	74 54	63 33 27 17	44 27 17	41 17	55 28 34 50	56 34 50	66 50	58.1 37.2			
GREENWOOD 2 NE	18	MAX OBS MIN	62 44 51 39	71 44 51 39	65 37 25 21	47 37 25 21	45 25 21	53 25 21	55 25 21	43 25 21	43 25 21	48 38 40 37	46 38 40 37	48 35 31 44	49 35 31 44	59 31 44	68 44 35 24	65 44 35 24	50 40 53 60	54 40 53 60	66 40 53 60	72 65 53 40	73 60	66 40 39 43	64 40 39 43	72 43	69 43	60 43	57 27 46 46	67 46 46	71 46	56.7 38.3		
LEWES	17	MAX MIN OBS	58 54 52 45	74 54 52 45	68 40 28 30	51 40 28 30	45 31 40 41	52 31 40 41	53 31 40 41	49 31 40 41	46 41	53 44 42 39	53 44 42 39	49 39 38 40	51 39 38 40	58 52 41 28	71 41 28	66 52 41 28	59 41 28	53 28	67 44 57 62	74 57 62	75 62	73 64 47	69 47	64 25	47 33 28 25	41 25	46 31 47 53	59 31 47 53	69 47 53	73 53	58.9 42.4	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

MARYLAND AND
DELAWARE
NOVEMBER 1991

STATION		DAY OF MONTH																															NOVEMBER 1991	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL OR AVG	
MARYLAND																																		
UPPER SOUTHERN 04																																		
UPPER MARLBORO 3 NNW		WIND	12	2	8	6	12	7	3	10	29	49	2	14	5	7	2	7	3	10	2	5	28	14	14	7	12	20	8	12	12	5		327
		EVAP	11	6	15	4	4	2	7	4	1	1	1	4	5	8	4	7	7	8	4	4	7	5	3	8	8	3	3	9	6	4		1.63
		MAX	64	63	69	63	40	46	49	50	40	41	40	44	48	52	57	63	62	52	59	56	71	70	68	66	54	46	42	44	50	60		54.3
		MIN	42	45	63	37	34	34	34	36	34	36	35	38	37	38	38	41	38	35	34	42	53	60	51	43	36	33	33	32	39	50		40.0
DELAWARE																																		
NORTHERN 01																																		
NEWARK UNIVERSITY FARM		WIND	25	18	56	34	33	8	8	34	38	87	6	83	46	19	13	35	50	12	12	19	24	14	37	63	109	80	13	11	22	19		1083
		EVAP	4	5	9	13	5	3	7	2	6	1	1	5	4	6	3	5	9	3	5	0	3	3	10	6	10	11	0	2	3	3		1.47
		MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		M
		MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		M

EVAPORATION: IS MEASURED IN HUNDRETHS OF INCHES

WIND: IS MEASURED IN MILES

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

SEE REFERENCE NOTES FOLLOWING STATION INDEX

SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND
DELAWARE
NOVEMBER 1991

STATION		DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
MARYLAND																																	
CENTRAL EASTERN SHORE	02																																
ROYAL OAK 2 SSW					T																												
					SNOWFALL																												
					SN ON GND																												
LOWER SOUTHERN	03																																
LA PLATA 1 W					T				T	T																							
					SNOWFALL																												
					SN ON GND																												
MECHANICSVILLE 5 NE					T				T	T	T																						
					SNOWFALL																												
					SN ON GND																												
UPPER SOUTHERN	04																																
BALTIMORE WSO ARPT									T		T																						
					SNOWFALL																												
					SN ON GND																												
					WTR EQUIV																												
GLENN DALE BELL STN					T				T																								
					SNOWFALL																												
					SN ON GND																												
NORTHERN CENTRAL	06																																
CLARKSVILLE 3 NNE					T																												
					SNOWFALL																												
					SN ON GND																												
DAMASCUS 2 SW					T						T		T																				
					SNOWFALL																												
					SN ON GND																												
MILLERS 4 NE					T						T		.1																				
					SNOWFALL																												
					SN ON GND																												
ROCKVILLE 1 NE					T																												
					SNOWFALL																												
					SN ON GND																												
WOODSTOCK											T																						
					SNOWFALL																												
					SN ON GND																												
APPALACHIAN MOUNTAIN	07																																
FROSTBURG 2					T					T		T	T	.1														T	.5	T			
					SNOWFALL																												
					SN ON GND																												
ALLEGHENY PLATEAU	08																																
MC HENRY 2 NW										T		.5	1.5	1.0														T	.5	T			
					SNOWFALL																												
					SN ON GND																												
MERRILL																																	
					SNOWFALL																												
					SN ON GND																												
OAKLAND 1 SE					T	T			T			1.0		1.0														T	1.0	T			
					SNOWFALL																												
					SN ON GND																												
SAVAGE RIVER DAM						T																											
					SNOWFALL																												
					SN ON GND																												
DELAWARE																																	
NORTHERN	01																																
WILMINGTON WSO ARPT																																	
					SNOWFALL																												
					SN ON GND																												
					WTR EQUIV																												

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

STATION INDEX

MARYLAND AND
DELAWARE
NOVEMBER 1991

										OBSERVATION TIME AND TABLES				OBSERVER		
STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	LOCAL STD TIME									
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)						
MARYLAND																
ABERDEEN PHILLIPS FLD	001506		HARFORD	39 28	76 10W	57	16	16		C	H	ROSS AVIATION INC				
ANNAPOLIS POLICE BRKS	019304		ANNE ARUNDEL	38 59	76 30W	30	17	17			H	ANNAPOLIS POLICE BRKS				
ASSATEAGUE IS NATL SEA	033501		WORCESTER	38 14	75 8W	7	17	07			H	NATIONAL PARK SERVICE				
BALTIMORE WSO ARPT	046504	R	ANNE ARUNDEL	39 11	76 40W	148	MID	MID		C	H	NATL WEATHER SERVICE				
BALTIMORE WSO CITY #	047006	R	BALTIMORE CI	39 17	76 37W	14	MID	MID		C	H	OCMI COMMANDING OFFICER				
BELTSVILLE	070004		PRINCE GEORG	39 2	76 53W	120	08	08	08	C	H	US DEPT OF AGRICULTURE				
BENSON POLICE BARRACKS	073206		HARFORD	39 30	76 23W	365	17	17			H	MARYLAND STATE POLICE				
BOYDS 2 NW	103206		MONTGOMERY	39 13	77 20W	580	18	18			H	INACTIVE 02/01/91				
CAMBRIDGE WATER TRMT P	138502		DORCHESTER	38 34	76 4W	10	16	16			H	WASTEWATER TRTMT PLANT				
CATOCTIN MOUNTAIN PARK	153006		FREDERICK	39 39	77 29W	1610	17	17		C	H	CATOCTIN MOUNTAIN PARK				
CHESTERTOWN	175005		KENT	39 13	76 4W	39	23	23			H	THOMAS W ELIASON JR				
CLARKSVILLE 3 NNE	186206		HOWARD	39 15	76 56W	365	17	17			H	UNIVERSITY OF MARYLAND				
COLLEGE PARK	199504		PRINCE GEORG	38 59	76 57W	90	09	09		C	H	UNIVERSITY OF MARYLAND				
CONOWINGO DAM	206006		HARFORD	39 39	76 10W	39	MID	MID			H	SUSQUEHANNA ELECTRIC CO				
CRISFIELD SOMERS COVE	221501		SOMERSET	37 59	75 52W	8	17	17			H	INACTIVE 03/01/91				
CUMBERLAND 2	228207		ALLEGANY	39 38	78 45W	730	18	07			H	TIMOTHY B THOMAS				
DALECARLIA RESVR DC	232504		DIS COLUMBIA	38 56	77 7W	151	17	17			H	U S CORPS OF ENGINEERS				
DAMASCUS 2 SW	233506		MONTGOMERY	39 16	77 14W	722	19	19			H	RICHARD W SCHWERDT				
DENTON 2 E	252302		CAROLINE	38 53	75 48W	49	17	17			H	INACTIVE 04/01/90				
EDGEMONT	277007		WASHINGTON	39 40	77 33W	905		07			H	JOHN W HARNE				
EMMITSBURG 2 SE	290606		FREDERICK	39 41	77 18W	420	16	17			H	MRS LUCILLE K BEALE				
FREDERICK POLICE BRKS	334806		FREDERICK	39 25	77 26W	381	17	17			H	MARYLAND STATE POLICE				
FROSTBURG 2	341507		ALLEGANY	39 40	78 56W	2172	07	07			H	LEE K CLOSE				
GLENN DALE BELL STN	367504		PRINCE GEORG	38 58	76 48W	151	16	16			H	USDA PLT INTRODUCT STN				
HAGERSTOWN	397507		WASHINGTON	39 39	77 44W	659	08	08			H	HAGERSTOWN RESERVOIR				
HANCOCK	403007		WASHINGTON	39 42	78 11W	428	08	08		C	H	TOWN OF HANCOCK				
LA PLATA 1 W	508003		CHARLES	38 32	77 0W	140	18	18			H	C RUSSELL LEVERING				
LAUREL 3 W	511104		PRINCE GEORG	39 6	76 54W	400	MID	MID			H	WASH SUB SANY COMM				
MC HENRY 2 NW	583208		GARRETT	39 35	79 22W	2680	08	08		C	H	JOSEPH F JOHANNING				
MECHANICSVILLE 5 NE	586503		ST MARYS	38 27	76 41W	100	19	19			H	SANDRA J HASTINGS				
MERRILL	589408		GARRETT	39 36	79 5W	1791	09	09			H	DELWOOD E MERRILL				
MILLERS 4 NE	593406		CARROLL	39 43	76 48W	860	18	18		C	H	BOBBY P MILLER				
MILLINGTON 1 SE	598505		KENT	39 16	75 52W	30	18	18			H	HOWARD L HARVEY				
NATIONAL ARBORETUM DC	635004		DIS COLUMBIA	38 54	76 59W	49	08	08			H	U S NATL ARBORETUM				
OAKLAND 1 SE	662008		GARRETT	39 24	79 24W	2421	17	17			H	BEA J CROSCO				
OWINGS FERRY LANDING	677003		CALVERT	38 41	76 40W	160	17	17			H	JAMES C RASMUSSEN				
POTOMAC FILTER PLANT	727206		MONTGOMERY	39 2	77 15W	269		08			H	POTOMAC WATER FILT PLT				
PRINCESS ANNE	733001		SOMERSET	38 13	75 41W	20	17	17			H	UNIV OF MD EASTERN SHORE				
ROCKVILLE 1 NE	770506		MONTGOMERY	39 6	77 6W	440	MID	17			H	WASHINGTON GAS AND LIGHT				
ROYAL OAK 2 SSW	780602		TALBOT	38 43	76 11W	10	18	18			H	JOHN L SWAINE JR				
SALISBURY	800001		WICOMICO	38 22	75 35W	10	17	17			H	CITY OF SALISBURY				
SALISBURY FAA ARPT #	800501		WICOMICO	38 20	75 31W	48	MID	MID			H	FAA				
SAVAGE RIVER DAM	806508		GARRETT	39 31	79 8W	1495	08	08	08	C	H	US CORPS OF ENGINEERS				
SNOW HILL 4 N	838001		WORCESTER	38 14	75 23W	30	18	18			H	CURTIS E SHOCKLEY				
TALL TIMBERS	875703		ST MARYS	38 10	76 33W	12	17	17			H	INACTIVE 01/01/91				
TOWSON	887706		BALTIMORE	39 23	76 34W	390	18	18			H	BENDIX FRIEZ				
UNIONVILLE	903006		FREDERICK	39 27	77 11W	430	17	07			H	RICHARD GETZANDANNER				
UPPER MARLBORO 3 NNW	907004		PRINCE GEORG	38 52	76 47W	98	08	08	08	C	H	UNIVERSITY OF MARYLAND				
VIENNA	914002		DORCHESTER	38 29	75 50W	10	18	18			H	DELMARVA POWER & LIGHT				
WESTMINSTER POLICE BRK	944006		CARROLL	39 33	76 58W	765	17	17			H	MARYLAND STATE POLICE				
WOODSTOCK	975006		BALTIMORE	39 20	76 52W	459	18	18			H	JOHN A HILTZ				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
NOVEMBER 1991

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER
							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
DELAWARE											
DOVER	2730	02	KENT	39 9	75 31W	30	17	17		H	STATE DIV OF HIGHWAYS UNIV OF DEL SUBSTATION
GEORGETOWN 5 SW	3570	02	SUSSEX	38 38	75 27W	45	08	08	08	C	
GREENWOOD 2 NE	3595	02	SUSSEX	38 50	75 35W	45	18	18		H	DANIEL M SHARTZENTRUBER BOARD OF PUBLIC WORKS
LEWES	5320	02	SUSSEX	38 46	75 28W	15	17	17		H	
MILFORD 4 SE	5915	02	SUSSEX	38 54	75 28W	30	17	17		H	INACTIVE 05/01/91 UNIV OF DEL AGRIC FARM
NEWARK UNIVERSITY FARM	6410	01	NEW CASTLE	39 40	75 44W	90	17	17	17	C	
WILMINGTON WSO ARPT	R 9595	01	NEW CASTLE	39 40	75 36W	79	MID	MID		H	NATL WEATHER SERVICE WATER DEPARTMENT
WILMINGTON PORTER RSVR	9605	01	NEW CASTLE	39 46	75 32W	274	MID	MID		H	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

MARYLAND AND
DELAWARE
NOVEMBER 1991

DEFINITIONS

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

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

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

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

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

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

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

SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

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

SYMBOLS AND LETTERS USED IN THE DATA TABLES

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

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

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

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

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

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

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

// Rain gage equipped with a windshield.

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

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

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

R Amounts from recording rain gage.

T Trace. An amount too small to measure.

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

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

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

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

SUBSCRIPTION, PRICE AND ORDERING INFORMATION AVAILABLE FROM:

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

USCOMM-NOAA-ASHEVILLE, N.C. NOVEMBER 1991-0585

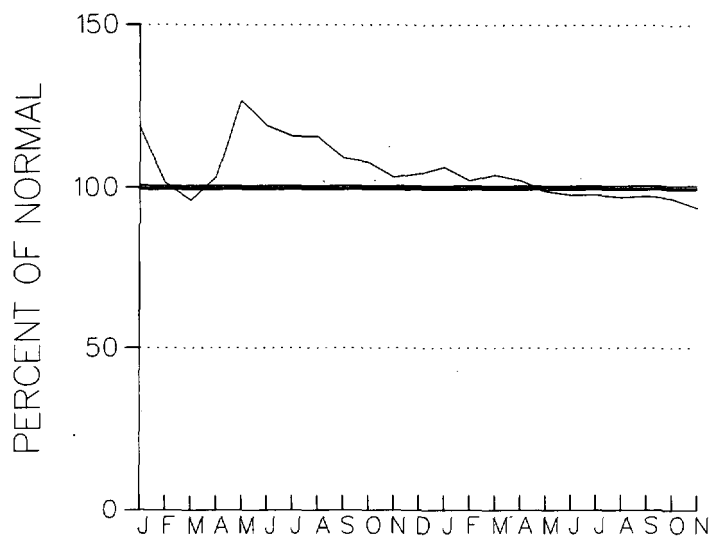
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980) FOR THE LAST 23 MONTHS ENDING NOVEMBER 1991 MARYLAND

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

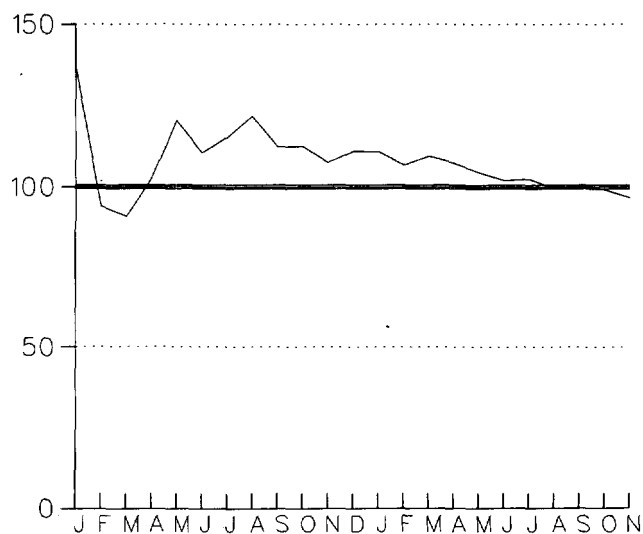
CLUSTER 2 -DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

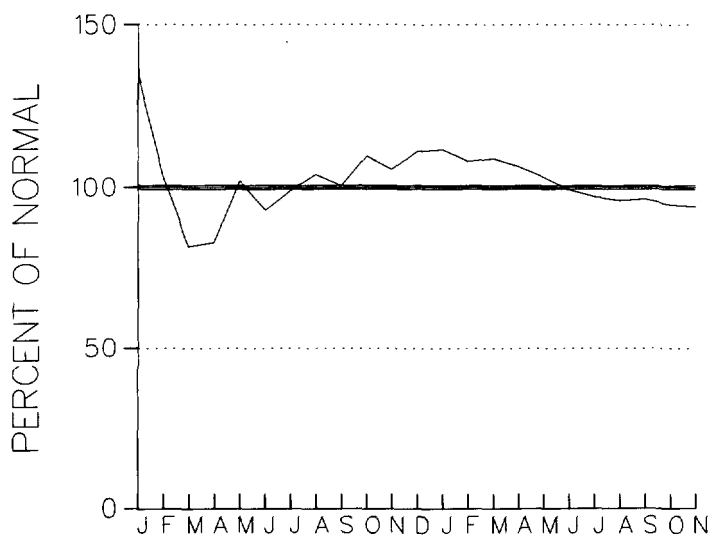
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



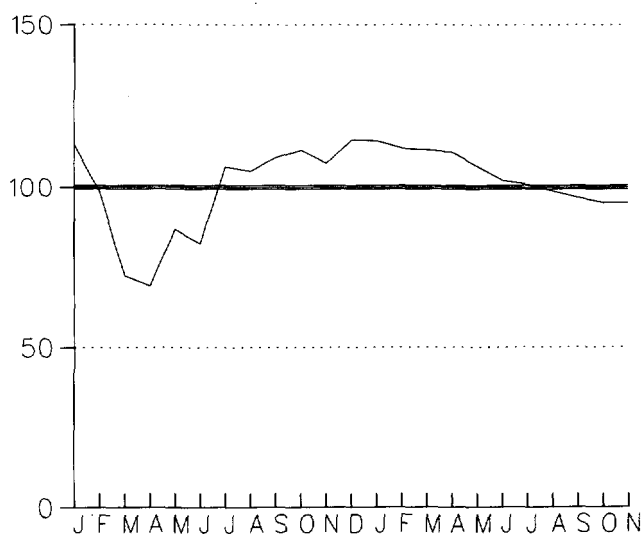
CLUSTER 1



CLUSTER 2



CLUSTER 3

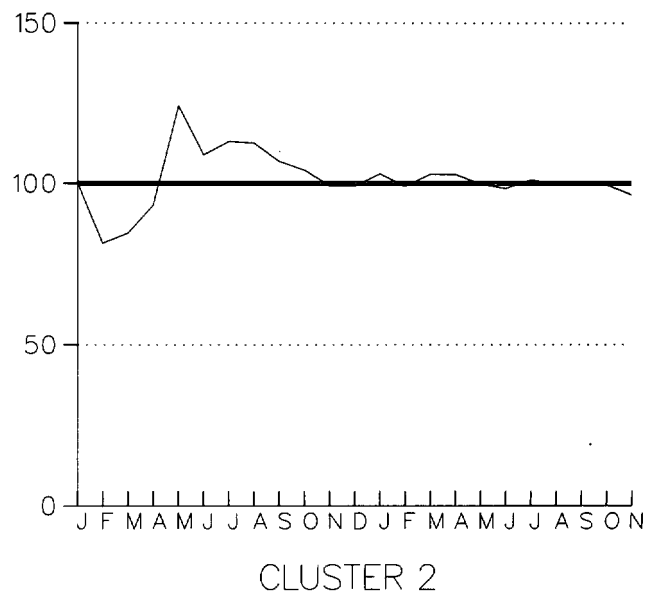


CLUSTER 4

CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980) FOR THE LAST 23 MONTHS ENDING NOVEMBER 1991 DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



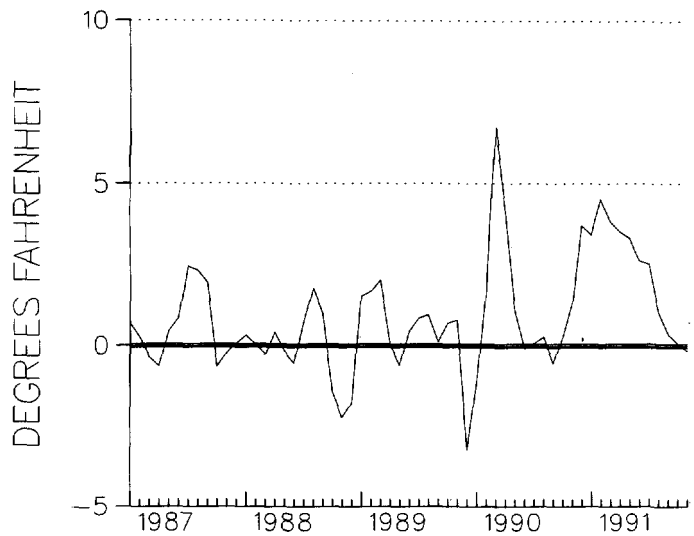
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980) THREE MONTH RUNNING MEAN FOR THE 59 MONTHS ENDING WITH NOVEMBER 1991 DATA MARYLAND

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

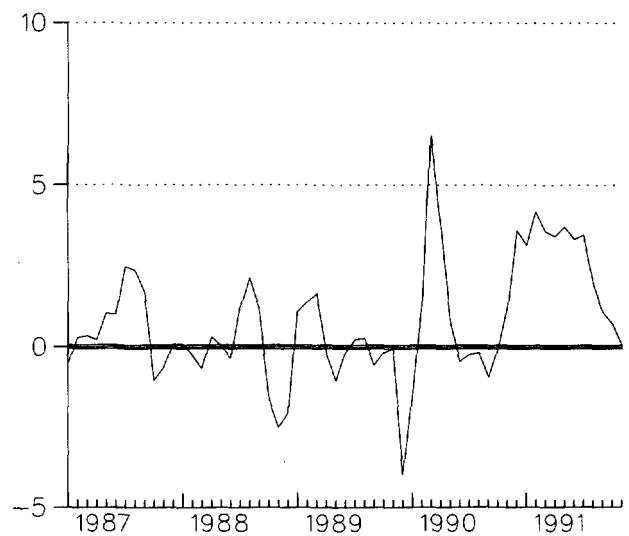
CLUSTER 2 -DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

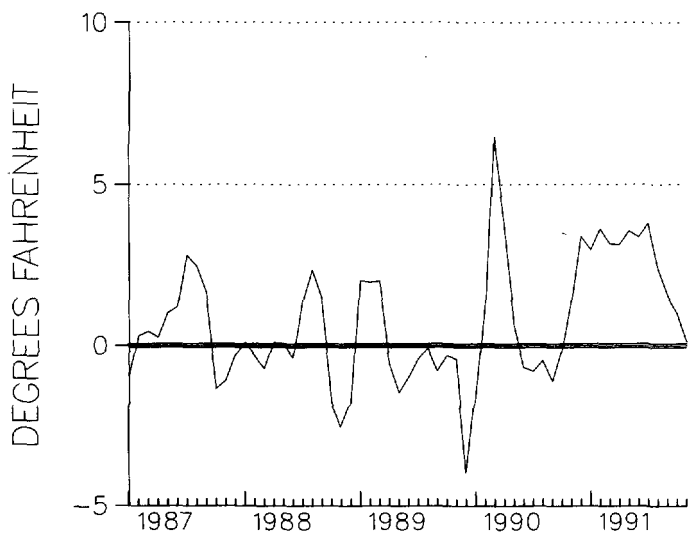
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



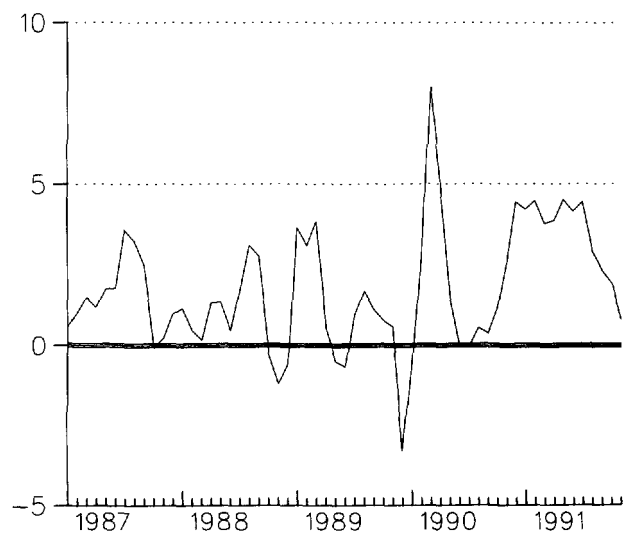
CLUSTER 1



CLUSTER 2



CLUSTER 3

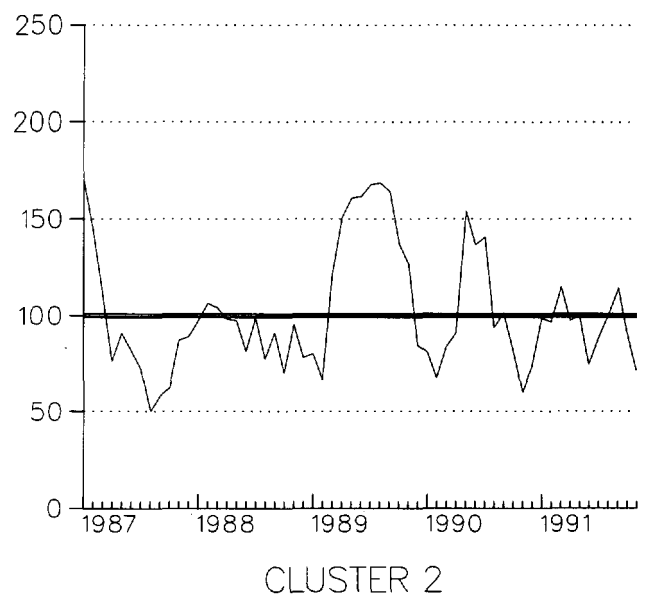
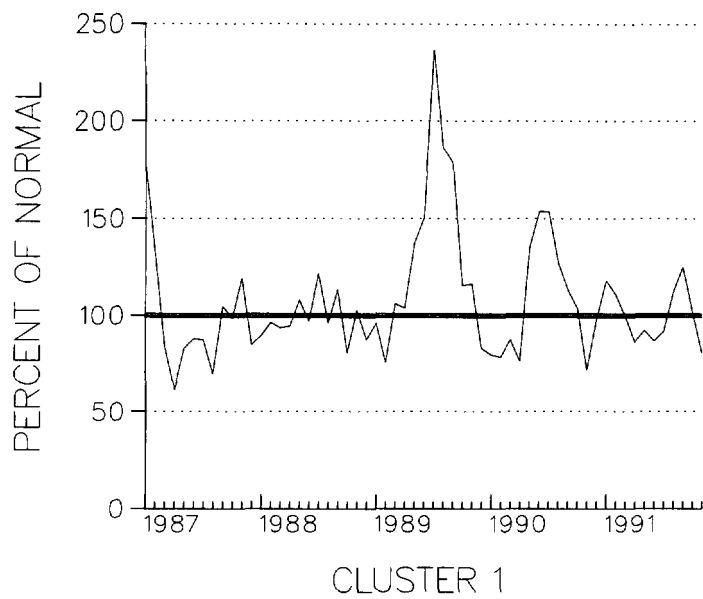


CLUSTER 4

PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
THREE MONTH RUNNING MEAN
FOR THE 59 MONTHS ENDING WITH NOVEMBER 1991 DATA
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



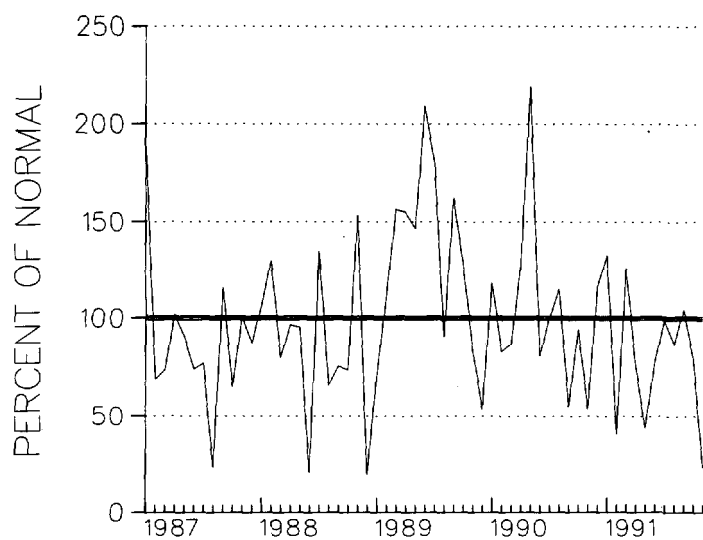
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE 59 MONTHS
ENDING NOVEMBER 1991
MARYLAND

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

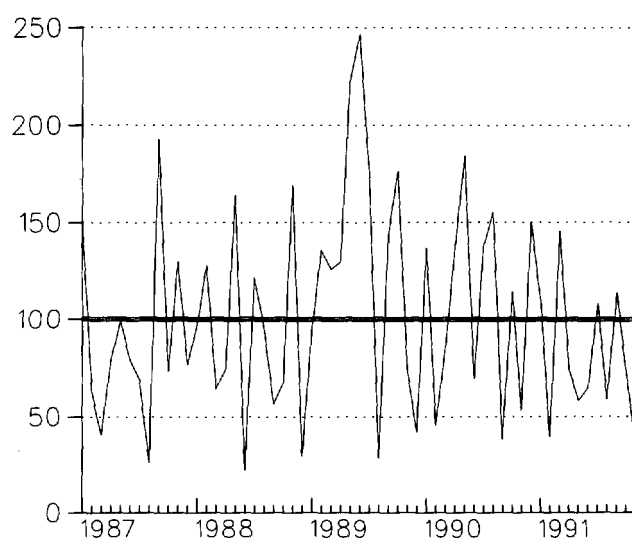
CLUSTER 2 -DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

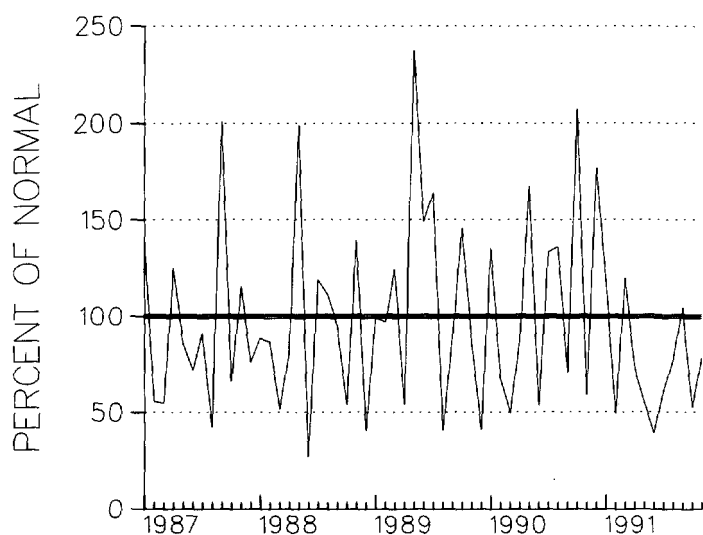
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



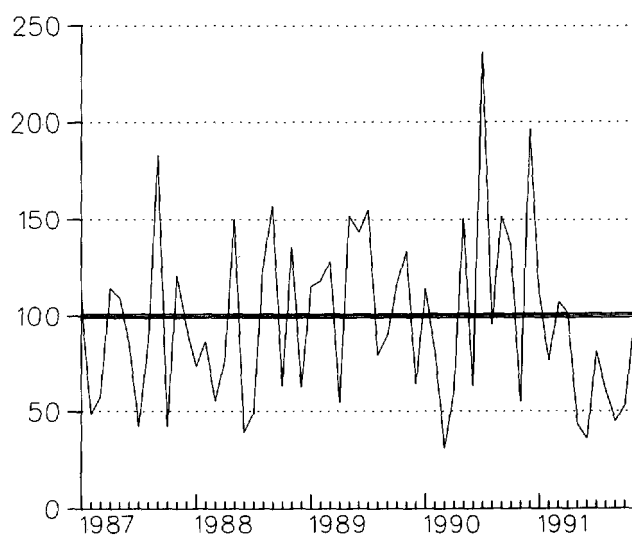
CLUSTER 1



CLUSTER 2



CLUSTER 3

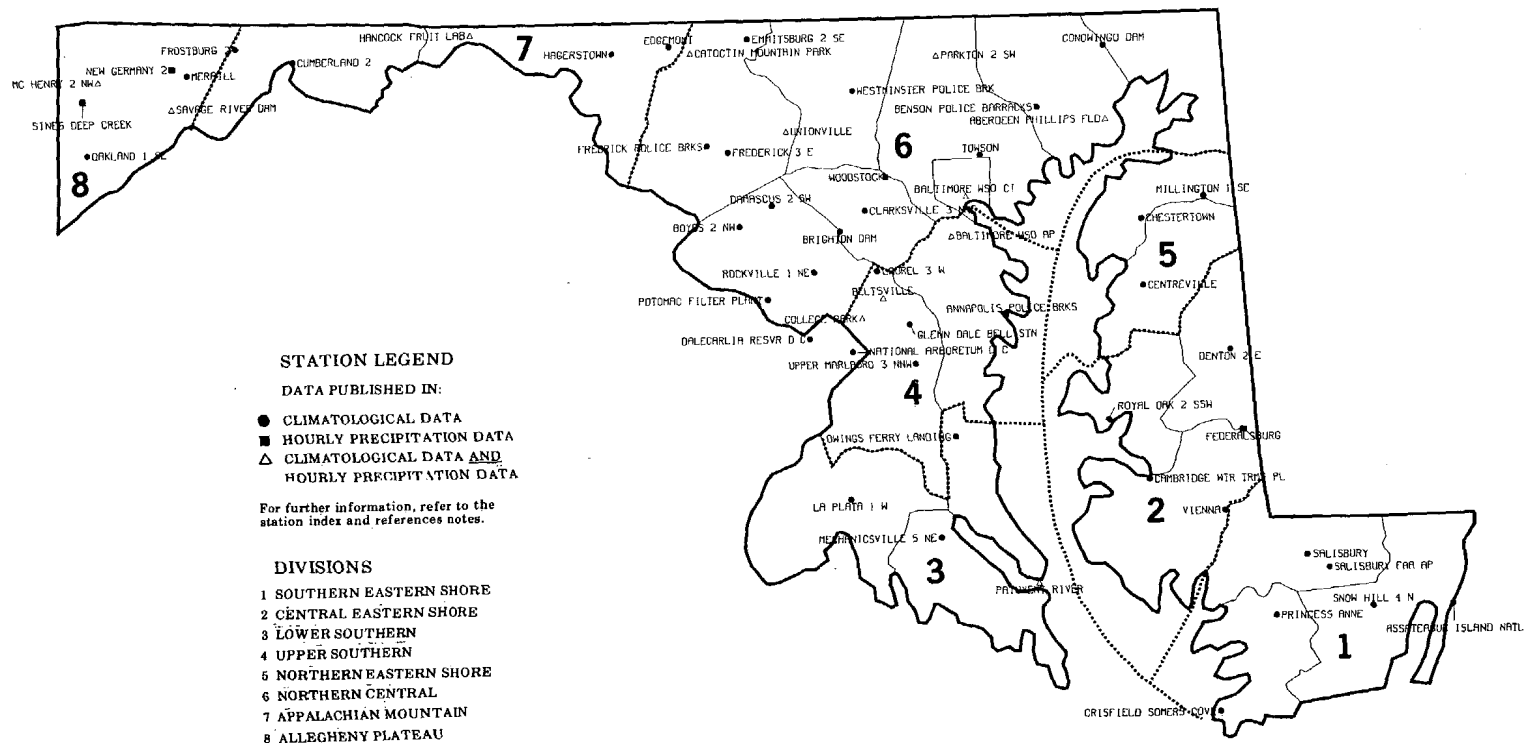
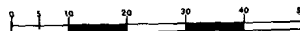


CLUSTER 4

18 - MARYLAND & D.C.

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

STATUTE MILES



40.0 76.0

75.0

40.0

07 - DELAWARE

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29.5 AND 43.5 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

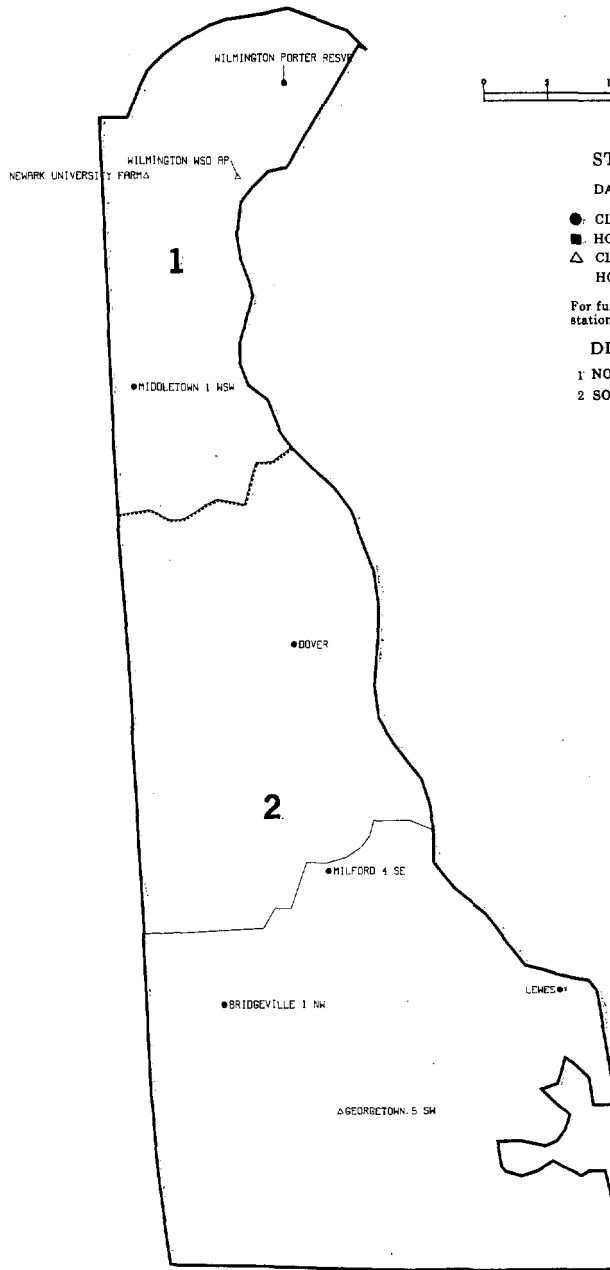
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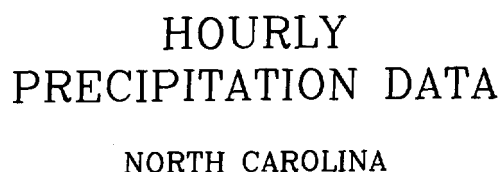
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- * Attorneys
- * Colleges & Universities
- * Construction
- * Consultants
- * Governmental Agencies
- * Industry
- * Insurance Companies
- * Public Utilities
- * Research & Development
- * Energy



VOLUME 37 NUMBER 1



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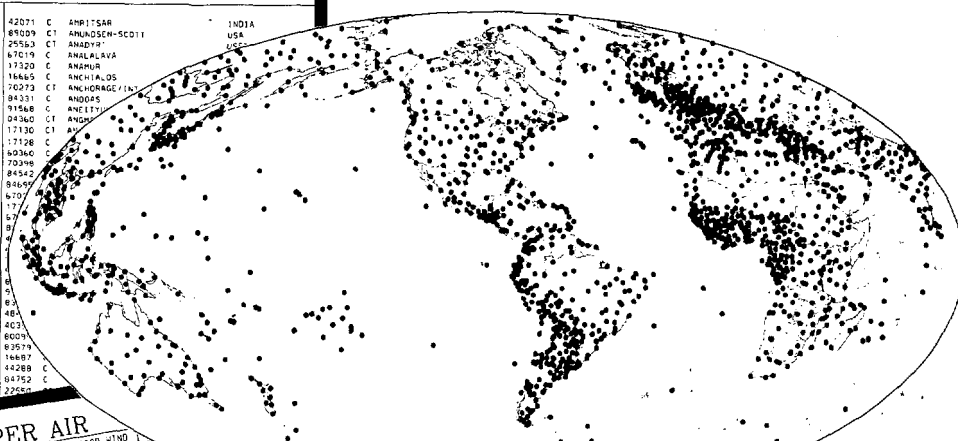
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EUROPE-NORWAY

STATION

SURFACE

JANUARY 1988

EUROPE
NORWAY
JAN MAYEN
SVALBARD
TROMSØ LUFTHAVN
TROMSØ/LANGES
FARØYA
ØRSTAD VÅG
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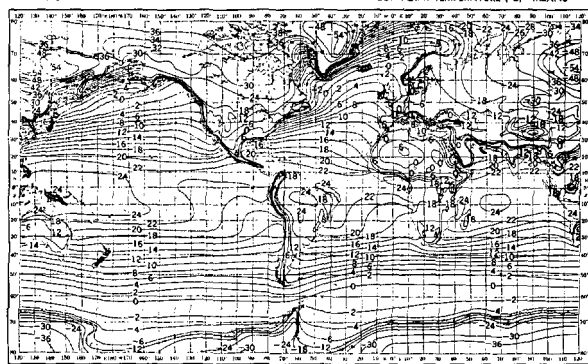
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Kenneth D Nadeau

DIRECTOR
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Tables of both Surface and Upper Air data are presented. Surface data tables contain elements of pressure, temperature, vapor pressure, precipitation, and sunshine. Upper air tables contain geopotential heights, temperature, dew point depressions, and vector winds for ten selected pressure levels between the surface and thirty millibars (hectopascals). A Station List is also provided which, in the January and July editions, contains all stations authorized for publication. In other months the list contains only those stations from which data no more than two months old have been recently received.

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