

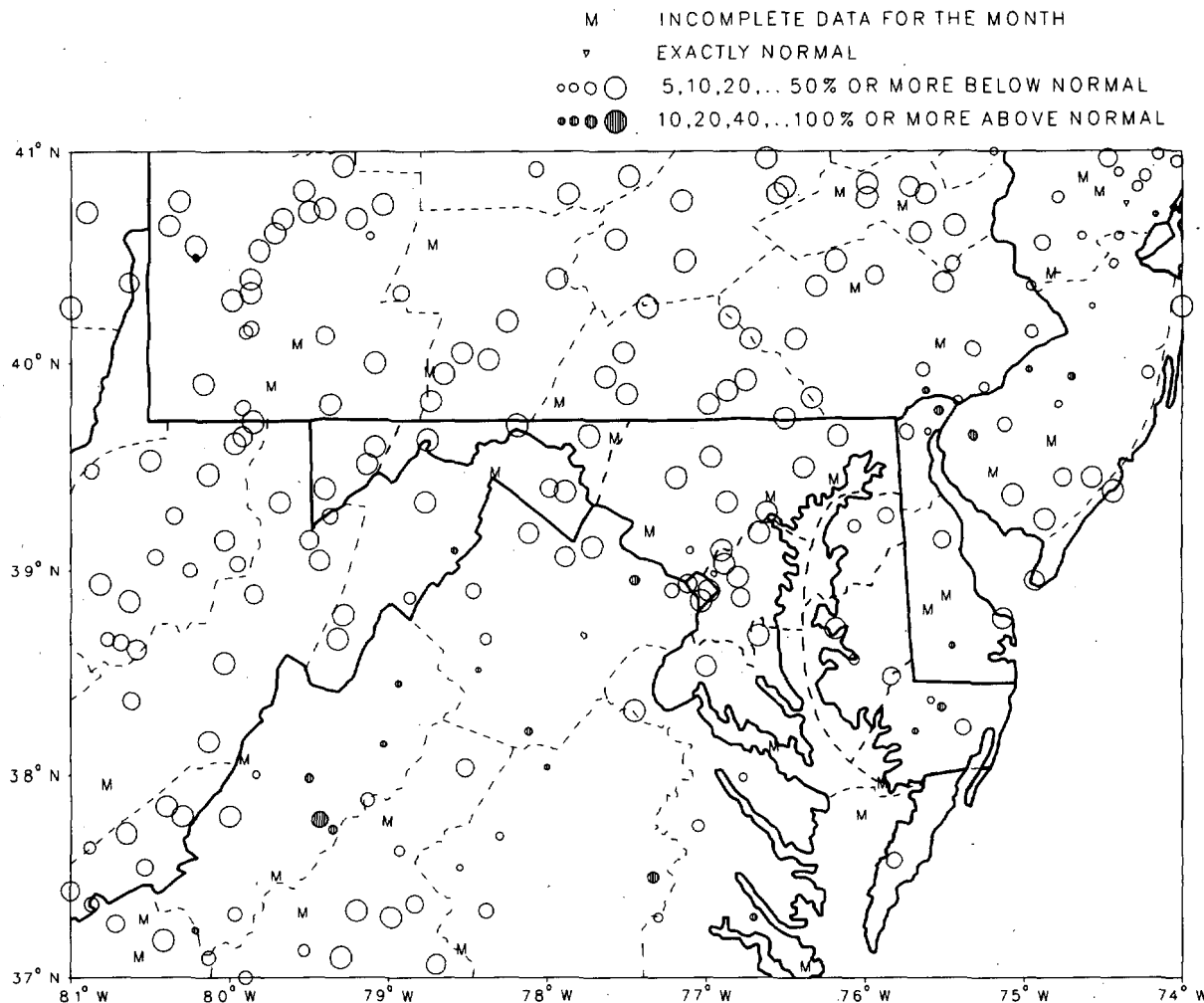


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CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

JUNE 1991
VOLUME 95 NUMBER 6

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



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

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Kenneth D. Haden

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

noaa

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ATMOSPHERIC ADMINISTRATION

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CLIMATIC DATA CENTER
ASHEVILLE NORTH CAROLINA

TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND AND
DELAWARE
JUNE 1991

MARYLAND
HIGHEST TEMPERATURE 103
LOWEST TEMPERATURE 37
GREATEST TOTAL PRECIPITATION 5.35
LEAST TOTAL PRECIPITATION .43
GREATEST 1 DAY PRECIPITATION 2.46

DELAWARE
HIGHEST TEMPERATURE 99
LOWEST TEMPERATURE 46
GREATEST TOTAL PRECIPITATION 5.77
LEAST TOTAL PRECIPITATION 1.97
GREATEST 1 DAY PRECIPITATION 3.69

JUNE 16
JUNE 6

JUNE 18

JUNE 16
JUNE 7

JUNE 18

CONOWINGO DAM
OAKLAND 1 SE
ASSATEAGUE IS NATL SEA
HANCOCK
CHESTERTOWN

DOVER
GEORGETOWN 5 SW
WILMINGTON PORTER RSVR
LEWES
WILMINGTON PORTER RSVR

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
JUNE 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	TOTAL	SNOW		SLEET		NO. OF DAYS			
									90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW					MAX.	MIN.	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE	
MARYLAND																								
SOUTHERN EASTERN SHORE 01																								
ASSATEAGUE IS NATL SEA	80.2	62.7	71.5		95.29	51.8	14	215	4	0	0	0	5.35		2.10	.0	0		4	4	3			
PRINCESS ANNE	85.4	59.7	72.6	.9	95.16	43.7	12	246	10	0	0	0	3.75	.34	1.45	.0	0		5	4	1			
SALISBURY	85.2	64.5	74.9	2.3	95.30+	49.8+	5	310	8	0	0	0	3.44	.18	1.37	.0	0		7	3	1			
SALISBURY FAA ARPT	83.5	61.3	72.4	.8	95.29+	44.7	15	245	8	0	0	0	4.84	1.29	2.36	.0	0		6	3	1			
SNOW HILL 4 N	85.4	61.5	73.5	1.9	96.16	44.7	11	273	9	0	0	0	2.60	-1.20	.71	.0	0		5	3	0			
--DIVISIONAL DATA----->																								
CENTRAL EASTERN SHORE 02																								
CAMBRIDGE WATER TRMT P	87.0	63.3	75.2	2.7	98.30+	49.7	2	315	12	0	0	0	3.00	-.57	.77	.0	0		6	3	0			
ROYAL OAK 2 SSW	85.6	64.4	75.0	1.5	97.30+	51.7	2	309	9	0	0	0	1.75	-1.68	.66	.0	0		5	1	0			
VIENNA	87.8	59.9	73.9	.9	100.30	44.7	11	284	15	0	0	0	2.21	-1.35	1.12	.0	0		4	1	1			
--DIVISIONAL DATA----->																								
LOWER SOUTHERN 03																								
LA PLATA 1 W	82.3	62.2	72.3	.7	93.16	50.6	6	229	4	0	0	0	2.00	-1.78	.62	.0	0		5	2	0			
MECHANICSVILLE 5 NE	83.1	61.6	72.4		95.16	48.14+	10	239	6	0	0	0	2.15		.79	.0	0		4	3	0			
OWINGS FERRY LANDING	84.6	61.8	73.2	1.0	95.29+	49.14	4	258	10	0	0	0	1.45	-2.26	.58	.0	0		4	1	0			
--DIVISIONAL DATA----->																								
UPPER SOUTHERN 04																								
ANNAPOLIS POLICE BRKS	86.6	63.9	75.3		99.29	54.6	4	317	11	0	0	0	2.23		1.62	.0	0		2	1	1			
BALTIMORE WSO ARPT	86.3	62.9	74.6	2.4	99.16	51.7	4	303	12	0	0	0	1.08	-2.68	.64	.0	0		2	1	0			
BELTSVILLE	85.2	60.7	73.0	2.7	98.17+	48.14+	12	257	10	0	0	0	1.98	-1.91	1.19	.0	0		3	1	1			
COLLEGE PARK	86.4	63.7	75.1	2.2	100.17	52.8+	3	312	13	0	0	0	3.79	-.06	2.10	.0	0		4	3	1			
DALECARLIA RESVR DC	87.9	56.7	72.3	-.5	99.16	45.14+	9	237	14	0	0	0	2.16	-1.52	1.67	.0	0		6	2	0			
GLENN DALE BELL STN	87.0	59.1	73.1	1.9	100.30	45.6	10	259	12	0	0	0	1.89	-1.98	1.18	.0	0		4	1	1			
LAUREL 3 W	86.9	62.0	74.5	1.9	100.16	51.6	3	294	13	0	0	0	1.53	-2.36	.50	.0	0		4	1	0			
NATIONAL ARBORETUM DC	87.0	63.9	75.5	2.1	100.17	52.6	6	326	14	0	0	0	1.33	-2.62	.43	.0	0		4	0	0			
UPPER MARLBORO 3 NNW	84.6	59.8	72.2		97.30+	46.14	19	241	10	0	0	0	2.29	-1.55	.60	.0	0		6	1	0			
--DIVISIONAL DATA----->																								
NORTHERN EASTERN SHORE 05																								
CHESTERTOWN	86.3	62.1	74.2	1.9	97.30+	49.6	5	287	12	0	0	0	3.31	-.93	2.46	.0	0		4	2	1			
MILLINGTON 1 SE	85.8	60.4	73.1	2.0	95.30+	48.14+	4	254	11	0	0	0	2.47	-1.20	1.89	.0	0		4	1	1			
--DIVISIONAL DATA----->																								
NORTHERN CENTRAL 06																								
ABERDEEN PHILLIPS FLD	83.0M				91.10	49.7			5	0	0	0	.87		.75	M	0		1	1	0			
BALTIMORE WSO CITY	87.6	70.8	79.2	3.9	100.30+	62.7+	0	436	13	0	0	0	.62	-3.09	.40	M	0		2	0	0			
BENSON POLICE BARRACKS	88.7	63.4	76.1	5.5	97.17+	51.7	0	340	15	0	0	0	1.80	-2.50	.90	.0	0		3	2	0			
CATOCTIN MOUNTAIN PARK	79.5	61.2	70.4		89.17+	49.5	18	184	0	0	0	0	1.67		.81	.0	0		3	2	0			
CLARKSVILLE 3 NNE	86.5	57.7	72.1		99.16	44.14	13	232	12	0	0	0	2.11		.96	.0	0		4	2	0			
CONOWINGO DAM	89.6	57.8	73.7	3.1	103.16+	47.7+	3	274	16	0	0	0	2.33	-1.96	.96	.0	0		5	2	0			
DAMASCUS 2 SW	82.8	61.0	71.9		94.15	49.6	9	225	6	0	0	0	2.66		1.13	.0	0		4	2	2			
EMMITSBURG 2 SE	85.5	58.1	71.8		95.30+	44.7	12	224	9	0	0	0	.86		.50	.0	0		2	1	0			
FREDERICK POLICE BRKS	87.9	63.6	75.8		97.17+	50.7	1	330	14	0	0	0	2.68		2.00	.0	0		4	1	1			
MILLERS 4 NE	83.2	60.2	71.7		93.16	47.7	11	221	7	0	0	0	1.93		.88	.0	0		4	1	0			
ROCKVILLE 1 NE	83.7	62.9	73.3	1.8	95.16+	51.7+	5	262	6	0	0	0	3.75	-.24	1.95	M	0		5	2	2			
TOWSON																	M							

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
JUNE 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	10 OR MORE	50 OR MORE	1.00 OR MORE
UNIONVILLE	85.4	56.8	71.1	1.8	9616	43	14		15	202	8	0	0	0	1.14	-2.94	.35	18	.0	0		3	0	0
WESTMINSTER POLICE BRK	86.4	62.5	74.5	4.6	9529+	49	7		3	293	11	0	0	0	2.05	-2.04			.0	0		3	1	0
WOODSTOCK	86.9	59.8	73.4	3.1	9730+	48	14		5	265	11	0	0	0	.75	-3.28	.22	18	.0	0		4	0	0
--DIVISIONAL DATA-->			73.5	2.7											1.87	-2.18			.0					
APPALACHIAN MOUNTAIN 07																								
CUMBERLAND 2	86.5	59.2	72.9	2.5	9530+	47	5		9	253	11	0	0	0	.87	-2.91	.50	23	.0	0		3	1	0
FROSTBURG 2	76.6	55.6	66.1		8722	44	7+		58	95	0	0	0	0	2.72		1.37	23	.0	0		5	2	1
HAGERSTOWN	86.1	61.2	73.7	2.7	9817+	48	6		11	280	12	0	0	0	.78	-3.14	.49	17	.0	0		2	0	0
HANCOCK	84.7	57.6	71.2	2.7	9529+	43	6		25	216	9	0	0	0	.43	-3.43	.33	23	.0	0		1	0	0
--DIVISIONAL DATA-->			71.0	1.5											1.20	-2.55			.0					
ALLEGHENY PLATEAU 08																								
MC HENRY 2 NW	77.2	56.5	66.9		8529+	43	5		47	109	0	0	0	0	1.48		.57	23	.0	0		4	1	0
OAKLAND 1 SE	78.4	52.6	65.5	1.9	8630+	37	6		68	90	0	0	0	0	1.53	-2.83	.81	4	.0	0		2	2	0
SAVAGE RIVER DAM	79.9	54.8	67.4	2.0	8922+	42	6		41	116	0	0	0	0	1.47	-2.03	.82	17	.0	0		2	1	0
--DIVISIONAL DATA-->			66.6	2.6											1.49	-2.65			.0					
DELAWARE																								
NORTHERN 01																								
NEWARK UNIVERSITY FARM	87.3	60.7	74.0	2.7	9716	48	7		5	283	15	0	0	0	2.70	-1.05	1.56	18	.0	0		5	2	1
WILMINGTON WSO ARPT	84.7	62.5	73.6	2.4	9716	50	6		5	271	11	0	0	0	3.41	-1.10	2.41	18	.0	0		5	1	1
WILMINGTON PORTER RSVR	83.6	63.1	73.4	3.0	9516	52	7+		5	266	7	0	0	0	5.77	1.77	3.69	18	.0	0		7	2	1
--DIVISIONAL DATA-->			73.7	2.5											3.96	.27			.0					
SOUTHERN 02																								
DOVER	86.6	63.2	74.9	2.3	9916	50	7+		3	305	13	0	0	0	2.28	-1.33	1.40	18	.0	0		3	1	1
GEORGETOWN 5 SW	83.2	62.0	72.6	1.1	9617	46	7		23	256	9	0	0	0	3.88	.29	1.03	23	.0	0		6	3	1
GREENWOOD 2 NE																								
LEWES	84.2	64.8	74.5	3.8	9716	50	7		6	298	11	0	0	0	1.97	-1.73	.72	23	.0	0		5	2	0
--DIVISIONAL DATA-->			74.0	2.2											2.71	-.94			.0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
JUNE 1991

STATION		TOTAL	DAY OF MONTH																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
MARYLAND																																		
SOUTHERN EASTERN SHORE 01																																		
ASSATEAGUE IS NATL SEA	5.35		1.08		.06														1.56		.01		2.10	.54										
PRINCESS ANNE	3.75			.71	.26														1.45	.04			.51	.78				T						
SALISBURY	3.44	.78	.17	.13	.02													T	.56	.14			.25	1.37	.02									
SALISBURY FAA ARPT	4.84	.15		.10	.07														2.36	.89			.43	.84										
SNOW HILL 4 N	2.60	.60	.24	T	.04								T						.64	.02			.35	.71										
CENTRAL EASTERN SHORE 02																																		
CAMBRIDGE WATER TRMT P	3.00	.73	.13		.10		.05												.77	T			.45	.77										
ROYAL OAK 2 SSW	1.75	.15	.03	.10	.02		.08												.66	.04			.27	.40							T			
VIENNA	2.21	.36																	.23	.05			.45	1.12										
LOWER SOUTHERN 03																																		
LA PLATA 1 W	2.00	.62		.17										.05					.18				.37	.58	.03									
MECHANICSVILLE 5 NE	2.15	.51		.23	T													T	.04	.03			.55	.79										
UPPER SOUTHERN 04																																		
OWINGS FERRY LANDING	1.45	.22	T	.03	.26								.04						.04	.03			.25	.58										
UPPER SOUTHERN 04																																		
ANNAPOLIS POLICE BRKS	2.23	.05		.08															1.62	.02			.02	.44										
BALTIMORE WSO ARPT	1.08	.05		T							.26	T						T	.64	.03		T	.02	.08										
BELTSVILLE	1.98		.33																1.19	.09	T		.30	.07										
COLLEGE PARK	3.79		.51		T								T						2.10	.22			.91	.05										
DALECARLIA RESYR DC																																		
GLENN DALE BELL STN	2.16	.10	.02	.08									.01						.58	.67	.13	.01	.37	.19										
LAUREL 3 W	1.89		.19	.03															1.18	.09			.10	.27	.03									
NATIONAL ARBORETUM DC	1.53	.34		.06							.05								.36				.50	.22										
UPPER MARLBORO 3 NNW	1.33	.17	.03	.04									.02						.02	.07	.43	.01	.36	.18										
	2.29	.20	.38	.07	.06								.02						.60	.40	.02		.36	.18										
NORTHERN EASTERN SHORE 05																																		
CHESTERTOWN	3.31			T	.55								.12							2.46			T	.18										
MILLINGTON 1 SE	2.47			.03	.19		.02						T						.15	1.89	.04		.15											
NORTHERN CENTRAL 06																																		
ABERDEEN PHILLIPS FLD	M .87			T									.02						.04	.75	T		*	*	.06									
BALTIMORE WSO CITY	.62	.04																	.40	.02		.04	.12											
BENSON POLICE BARRACKS	1.80												.90						.15	.60	.04		.02	.09										
CATOCTIN MOUNTAIN PARK																																		
CLARKSVILLE 3 NNE	1.67		.55	.05									.02						.64	.81	.01	T	.19											
CONOWINGO DAM	2.11												.09						.03	.96	.27		.16											
DAMASCUS 2 SW	2.33											.06	.06					.96	.12	.37	.10		.59	.07										
EMMITSBURG 2 SE	2.66	T		1.01								T	.19					T	T	1.13	.01		.31	T										
	.86	.50										T							.06	.06			.02	.22										
FREDERICK POLICE BRKS																																		
MILLERS 4 NE	2.68		.14										.33						.28	2.00	T		.26											
POTOMAC FILTER PLANT	1.93	T		.08									.07						.88	.35	T		.29											
ROCKVILLE 1 NE	1.95	.04		.62								.01							1.14				.07										T	
TOWSON	3.75	.38		.16								T	T						1.95	.02		.01	1.00	.23										
	M																																	
UNIONVILLE																																		
WESTMINSTER POLICE BRK	1.14		.28	.33									.04						.05	.35			.09											
WOODSTOCK	2.05		.05	.71														*	.73	.40			.14										.02	
	.75		.21	T									.07						.22	.12			.13											
APPALACHIAN MOUNTAIN 07																																		
CUMBERLAND 2	.87				.12								.20						.05				.50	T										
EDGEMONT	M																																	
FROSTBURG 2																																		
HAGERSTOWN	2.72			T	.31								.15	.02					.09	T	.62	T	1.37	.16										
HANCOCK	.78												.03	T					.49		.01		.24	.01										
	.43				.01								.05						.01	.03			.33											

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
JUNE 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		1.48	.06		T	.30							.18	.03			T	.33							.57	.01							
MERRILL		1.20				.11							.20					.34							.55								
OAKLAND 1 SE		1.53			.08	.81						T	.04				T						T		.60								
SAVAGE RIVER DAM		1.47	.03			.05							.05					.82		.05	T			.46	.01								
DELAWARE																																	
NORTHERN 01																																	
NEWARK UNIVERSITY FARM		2.70											.27					.63	1.56	.11				.13									
WILMINGTON WSO ARPT R		3.41				T	T					.20	.03				.41	2.41	.02			T	.12								.22		
WILMINGTON PORTER RSVR		5.77				.18							.13				.62	.03	3.69	.09			.25	.44							.34		
SOUTHERN 02																																	
DOVER		2.28			.06	.08		.03											1.40	.42				.29									
GEORGETOWN 5 SW		3.88		.20		.85													.92	.43	.01			1.03	.44								
GREENWOOD 2 NE		M																															
LEWES		1.97			.35														.59	.14			.17	.72									

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JUNE 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	92	77	75	70	71	65	65	76	81	86	88	82	83	83	92	89	85	88	69	76	85	84	73	72	74	74	78	83	95	94	80.2	
		OBS																																
		MIN	70	67	60	64	57	56	52	51	62	63	71	68	68	52	63	73	68	65	65	64	64	65	59	56	56	54	58	65	71	75	62.7	
		OBS																																
PRINCESS ANNE	17	MAX	94	88	81	77	75	72	78	82	89	91	90	89	86	85	94	95	92	92	74	83	92	89	69	81	81	83	84	87	94	94	85.4	
		MIN	67	68	65	65	52	46	43	46	55	56	69	70	60	45	46	75	71	67	64	66	63	62	61	52	49	49	55	58	72	75	59.7	
SALISBURY	17	MAX	92	89	89	78	75	70	78	82	88	89	88	87	85	85	93	94	93	92	74	83	90	87	73	81	80	81	84	86	95	95	85.2	
		MIN	72	71	70	68	56	51	49	49	63	62	69	75	64	54	62	78	74	67	66	68	69	68	64	55	56	56	62	64	75	78	64.5	
SALISBURY FAA ARPT	MID	MAX	92	85	82	76	69	70	77	83	88	90	89	88	81	86	94	95	93	74	73	85	92	77	67	79	80	81	84	86	95	94	83.5	
		MIN	69	68	69	57	54	46	44	49	59	58	66	72	53	49	58	76	73	66	66	68	66	65	60	55	53	53	57	62	73	76	61.3	
SNOW HILL 4 N	18	MAX	94	86	82	79	75	72	78	83	87	92	89	88	87	82	94	96	94	86	72	87	93	90	71	80	81	82	84	88	95	95	85.4	
		MIN	70	69	70	68	52	46	44	48	60	58	68	70	59	47	57	75	72	68	67	68	65	67	63	54	50	51	54	59	71	76	61.5	
CENTRAL EASTERN SHORE	02																																	
CAMBRIDGE WATER TRMT P	16	MAX	92	88	87	83	77	74	79	84	89	92	92	91	89	82	95	98	96	89	75	83	93	90	75	80	82	83	85	93	96	98	87.0	
		MIN	70	69	68	68	56	53	49	54	59	64	67	72	64	52	62	74	73	65	63	67	66	66	60	59	56	54	61	64	69	75	63.3	
ROYAL OAK 2 SSW	18	MAX	91	87	84	78	73	75	78	85	89	91	89	88	84	84	94	96	92	86	75	85	92	86	75	80	82	81	85	90	97	97	85.6	
		MIN	69	65	69	68	54	52	51	59	58	67	72	70	63	53	66	76	73	66	63	68	68	67	62	53	60	56	63	70	75	75	64.4	
VIENNA	18	MAX	98	88	86	80	74	73	80	85	92	91	89	90	90	88	93	93	95	95	73	85	95	91	77	83	86	85	90	91	99	100	87.8	
		OBS																																
		MIN	65	65	63	65	48	49	44	48	55	71	67	68	56	47	58	70	67	59	57	62	61	62	57	49	60	56	59	61	74	73	59.9	
		OBS																																
LOWER SOUTHERN	03																																	
LA PLATA 1 W	18	MAX	87	81	79	78	74	71	75	78	84	87	86	83	81	82	92	93	87	82	74	81	88	87	75	76	78	79	83	88	90	91	82.3	
		MIN	67	69	68	68	54	50	52	51	56	59	64	69	58	51	62	71	69	66	64	68	66	69	62	53	56	53	59	66	71	74	62.2	
MECHANICSVILLE 5 NE	19	MAX	90	82	79	74	72	72	76	81	87	89	87	86	81	85	92	95	89	79	73	83	91	80	73	79	79	78	84	89	94	93	83.1	
		MIN	67	69	68	67	53	48	49	49	56	59	64	69	58	48	58	72	71	67	64	68	67	70	63	53	56	50	58	64	70	74	61.6	
OWINGS FERRY LANDING	17	MAX	95	84	83	75	75	70	76	82	86	90	88	85	85	82	93	95	92	82	73	84	92	91	74	79	81	79	85	92	95	94	84.6	
		MIN	66	65	69	66	54	51	57	58	56	59	63	65	57	49	58	71	70	66	63	67	66	68	62	54	56	52	58	65	69	73	61.8	
UPPER SOUTHERN	04																																	
ANNAPOLIS POLICE BRKS	17	MAX	93	87	86	81	71	72	75	83	89	88	93	91	84	86	94	98	93	86	75	89	92	92	77	82	83	83	86	92	99	98	86.6	
		MIN	72	70	70	67	55	54	55	57	60	64	62	61	60	56	63	72	73	65	62	66	67	70	62	56	59	57	63	67	73	78	63.9	
BALTIMORE WSO ARPT	MID	MAX	93	88	85	79	74	74	80	86	91	93	91	88	83	86	97	99	92	78	75	90	93	79	67	82	84	84	88	96	97	97	86.3	
		MIN	69	68	70	64	57	52	51	54	60	64	67	69	58	55	59	74	73	63	63	65	66	66	58	54	57	57	58	65	74	78	62.9	
BELTSVILLE	08	MAX	96	93	87	84	79	73	75	79	83	89	91	91	89	82	86	98	98	91	70	74	89	94	76	67	81	81	83	88	94	95	85.2	
		OBS																																
		MIN	67	63	66	65	54	48	48	50	55	58	62	68	57	48	56	72	71	68	62	62	65	68	62	53	55	51	57	64	71	75	60.7	
		OBS																																
COLLEGE PARK	09	MAX	97	94	86	84	77	75	75	78	82	91	94	94	90	84	87	99	100	92	70	78	90	94	76	73	82	84	84	89	95	97	86.4	
		MIN	70	66	70	67	56	52	52	52	57	60	65	71	62	53	60	79	72	68	63	64	67	71	62	55	58	54	60	68	76	81	63.7	
DALECARLIA RESVR DC	17	MAX	94	88	89	82	78	74	81	84	90	91	92	91	89	86	96	99	93	88	74	90	94	94	76	81	83	83	88	94	97	98	87.9	
		MIN	61	70	62	58	47	45	45	45	50	53	56	62	51	45	54	66	72	58	56	57	59	62	55	62	49	47	66	58	64	67	56.7	
		OBS																																
GLENN DALE BELL STN	16	MAX	92	87	87	82	77	73	78	83	89	91	91	89	87	83	93	96	96	92	73	87	92	92	74	81	83	83	87	93	98	100	87.0	
		MIN	65	62	68	64	48	45	47	47	60	57	60	67	51	46	56	71	70	64	60	60	64	65	60	51	56	49	56	63	70	72	59.1	
LAUREL 3 W	MID	MAX	91	88	82	91	84	74	80	84	90	93	92	87	83	87	98	100	90	81	74	90	94	82	68	81	82	84	88	95	97	97	86.9	
		MIN	68	63	70	62	54	51	52	54	62	65	67	63	65	53	60	73	70	60	60	63	66	63	59	55	55	58	59	65	72	74	62.0	
NATIONAL ARBORETUM DC	08	MAX	97	93	88	84	79	74	76	81	85	91	93	93	90	9																		

SEE REFERENCE NOTES-FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JUNE 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	95 65	91 64	85 68	81 65	77 51	71 47	73 48	75 48	83 55	92 58	92 62	89 66	88 60	84 46	86 56	96 70	97 68	93 68	77 61	74 62	88 64	93 66	70 60	67 52	80 54	81 50	81 56	87 62	94 67	97 74	84.6 59.8	
NORTHERN EASTERN SHORE	05																																	
CHESTERTOWN	23	MAX MIN	91 72	90 70	86 68	78 62	74 51	76 49	82 50	86 55	91 57	93 63	92 64	88 66	83 57	87 50	97 57	97 72	93 71	74 61	74 62	89 68	94 68	78 68	69 58	83 54	84 59	84 56	89 61	94 66	97 73	97 75	86.3 62.1	
MILLINGTON 1 SE	18	MAX OBS MIN OBS	92 67	86 62	84 67	79 63	79 52	74 49	79 48	84 51	89 50	91 58	91 64	86 68	85 57	83 48	94 55	95 71	92 71	89 64	72 62	86 67	90 66	91 65	77 53	80 56	80 52	82 58	84 58	90 64	94 70	95 72	85.8 60.4	
NORTHERN CENTRAL	06																																	
ABERDEEN PHILLIPS FLD	16	MAX MIN			83 71	83 66	75 56	72 54	79 49			91 62	90 67	90 68	85 60	80 51			88 71	86 66	73 62	87 64	90 65		77 54	79 54	81 58	81 54	84 59	90 67			83.0 M	
BALTIMORE WSO CITY	MID	MAX MIN	93 80	89 74	87 72	78 67	75 62	75 62	81 62	87 66	92 72	94 75	93 75	88 76	85 68	86 65	98 71	100 81	92 78	82 65	77 65	91 71	93 76	83 70	72 64	83 64	83 67	84 68	87 70	98 72	99 82	100 84	87.6 70.8	
BENSON POLICE BARRACKS	17	MAX OBS MIN	94 71	90 64	89 67	88 65	76 54	78 52	83 51	86 58	94 66	93 66	92 70	90 69	88 59	87 54	97 58	97 70	97 73	87 65	75 61	91 64	94 67	90 69	79 61	83 58	85 58	84 55	88 59	95 64	96 76	96 78	88.7 63.4	
CATOCTIN MOUNTAIN PARK	17	MAX MIN	84 68	78 62	77 63	76 58	68 49	68 50	72 51	77 57	84 61	82 64	83 66	82 64	81 53	79 55	89 63	89 74	80 67	70 61	81 61	84 67	82 68	69 57	74 55	73 57	76 57	79 60	87 65	86 72	87 72		79.5 61.2	
CLARKSVILLE 3 NNE	17	MAX MIN	94 63	87 61	83 67	82 63	72 50	72 45	79 45	85 45	90 50	90 56	91 59	88 66	86 50	85 44	97 52	99 66	90 66	86 66	75 61	88 61	94 63	91 67	74 60	80 51	83 52	83 48	87 54	94 58	94 68	95 70	86.5 57.7	
CONOWINGO DAM	MID	MAX MIN	93 65	90 59	87 64	80 60	78 47	77 47	84 47	93 50	95 54	97 57	94 61	90 63	87 56	88 48	103 54	103 67	92 78	92 67	77 58	96 67	95 63	88 59	75 53	88 55	88 53	86 55	93 53	97 60	100 67	97 67	89.6 57.8	
DAMASCUS 2 SW	19	MAX MIN	89 68	84 63	80 63	74 61	70 51	73 49	77 51	81 52	86 59	87 61	87 64	85 65	81 56	83 54	94 61	93 68	85 61	71 60	85 61	91 66	75 69	71 59	78 59	81 59	81 54	86 61	91 64	92 72	93 72		82.8 61.0	
EMMITSBURG 2 SE	17	MAX MIN	89 65	82 62	82 66	81 62	74 51	73 46	78 44	82 45	86 51	88 55	88 58	87 67	85 51	84 45	94 56	95 69	94 70	87 66	76 62	90 59	92 61	93 67	74 61	80 51	82 51	82 50	86 53	94 59	92 67	95 73	85.5 58.1	
FREDERICK POLICE BRKS	17	MAX MIN	94 74	90 68	89 69	86 64	78 54	76 51	81 50	84 54	90 58	91 63	92 69	90 70	89 61	86 53	96 61	97 76	97 73	89 66	75 62	88 62	93 68	95 71	75 61	78 59	81 59	81 54	86 61	91 64	92 72	93 72	87.9 63.6	
MILLERS 4 NE	18	MAX MIN	86 71	83 60	82 62	77 60	71 52	71 48	77 52	81 59	86 63	87 64	87 65	84 65	82 56	83 48	92 61	93 69	90 63	70 60	88 58	90 65	88 68	73 59	77 52	78 55	80 53	84 58	90 62	91 72	91 74		83.2 60.2	
ROCKVILLE 1 NE	MID	MAX MIN	87 71	85 65	86 67	77 64	73 54	73 51	78 51	82 56	86 61	89 63	88 67	87 70	85 61	85 53	95 60	95 75	87 72	78 62	87 63	92 66	79 66	67 61	67 56	81 59	82 53	85 61	92 66	91 74	92 78		83.7 62.9	
TOWSON	18	MAX MIN																																M M
UNIONVILLE	17	MAX MIN	89 63	85 61	85 64	82 62	72 47	73 45	79 44	83 45	87 49	88 54	88 57	86 66	83 47	86 43	94 54	96 66	90 68	87 65	74 62	88 62	92 67	90 67	73 61	80 53	82 50	83 47	87 53	93 57	94 66	94 68	85.4 56.8	
WESTMINSTER POLICE BRK	17	MAX OBS MIN OBS	90 71	86 62	83 61	84 62	81 54	73 52	79 49	83 57	88 62	89 67	90 66	90 69	85 57	85 51	95 60	95 75	93 71	95 65	73 60	89 58	92 65	88 69	74 60	81 55	84 60	83 54	82 61	94 66	95 74	94 75	86.4 62.5	
WOODSTOCK	18	MAX MIN	90 66	87 61	85 66	83 63	75 52	73 48	82 48	86 49	90 55	91 60	89 61	87 67	87 54	88 48	94 55	97 70	91 70	84 65	75 61	91 61	84 65	95 68	91 60	83 54	75 54	82 54	83 51	86 56	89 61	96 71	97 74	86.9 59.8
APPALACHIAN MOUNTAIN	07																																	
CUMBERLAND 2	18	MAX MIN	91 66	87 68	80 60	77 50	73 47	76 49	78 52	83 53	89 54	89 59	88 63	85 56	83 48	89 52	94 62	95 70	92 70	87 63	79 61	92 62	95 66	92 63	71 57	83 54	85 55	86 56	91 58	95 60	94 71	95 72	86.5 59.2	
FROSTBURG 2	07	MAX MIN	81 66	81 61	77 61	74 56	67 48	64 44	66 44	70 48	73 49	80 52	80 55	79 60	76 52	73 47	83 55	86 66	86 66	83 58	68 58	72 58	83 62	87 62	76 60	60 52	73 53	75 53	77 57	82 54	84 61	83 69	76.6 55.6	
HAGERSTOWN	08	MAX MIN	93 70	90 65	88 65	85 62	77 52	73 48	74 50	80 52	85 56	90 61	91 64	91 65	88 55	83 51	88 58	98 72	98 70	92 71	73 61	78 61	92 64	95 70	85 60	67 54	83 55	84 58	84 59	89 65	95 68	95 75	86.1 61.2	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JUNE 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	90	88	85	83	72	73	74	78	86	87	89	88	84	81	85	95	94	91	74	78	92	93	84	67	82	84	85	90	95	93	84.7	
				MIN	68	64	66	60	47	43	45	48	49	53	57	65	54	45	58	60	69	69	64	60	61	66	62	55	50	50	52	56	65	68	57.6	
ALLEGHENY PLATEAU			08																																	
MC HENRY 2 NW			08	MAX	78	81	80	70	69	65	69	69	73	79	79	77	74	75	84	82	82	83	76	81	83	85	75	65	76	75	78	84	85	83	77.2	
				MIN	63	61	62	52	43	44	47	52	54	55	56	58	50	49	54	61	63	63	59	59	62	65	58	53	53	55	57	58	63	66	56.5	
OAKLAND 1 SE			17	MAX	81	80	77	73	66	67	68	71	78	80	79	77	77	83	84	85	82	81	80	82	86	84	70	74	75	77	82	84	84	86	78.4	
				MIN	60	58	61	49	38	37	41	45	41	46	54	61	47	38	45	65	65	62	60	54	52	64	60	51	48	50	46	51	62	68	52.6	
SAVAGE RIVER DAM			08	MAX	84	83	84	76	71	68	72	74	77	82	82	82	78	77	86	88	89	87	75	75	82	89	79	65	74	78	80	86	87	86	79.9	
				MIN	63	62	64	55	44	42	44	48	49	52	54	59	51	43	46	54	60	63	60	59	58	59	61	57	51	52	55	54	59	66	54.8	
DELAWARE																																				
NORTHERN			01																																	
NEWARK UNIVERSITY FARM			17	MAX	92	89	87	86	75	75	82	84	90	93	93	90	85	84	95	97	90	90	71	90	92	91	78	81	85	84	87	92	95	95	87.3	
				MIN	67	62	68	62	51	49	48	53	60	62	65	65	57	50	55	71	69	61	60	64	66	68	59	51	55	55	58	65	72	74	60.7	
WILMINGTON WSO ARPT			MID	MAX	89	85	86	77	75	74	82	85	90	91	90	86	78	85	94	97	91	71	72	90	91	81	69	83	82	81	86	91	95	95	84.7	
				MIN	71	64	69	59	53	50	51	57	63	63	69	65	56	52	59	73	71	62	62	66	68	69	58	56	60	59	61	66	74	69	62.5	
WILMINGTON PORTER RSVR			MID	MAX	87	86	85	75	71	73	79	84	88	91	89	85	77	84	94	95	89	74	70	89	91	79	69	81	81	80	85	91	93	93	83.6	
				MIN	70	65	68	60	54	52	52	59	67	65	68	66	55	53	60	73	72	62	61	65	68	68	59	58	59	60	64	67	74	70	63.1	
SOUTHERN			02																																	
DOVER			17	MAX	95	82	75	77	78	74	79	85	90	92	93	91	88	82	95	99	94	92	71	89	91	89	78	83	83	82	85	92	96	97	86.6	
				MIN	70	66	69	65	55	50	50	59	60	66	68	69	60	53	62	71	75	64	62	65	66	69	61	51	57	54	62	66	74	77	63.2	
				OBS			53																													
GEORGETOWN 5 SW			08	MAX	93	94	95	81	74	71	70	72	77	87	85	92	88	80	85	91	96	94	69	75	86	90	81	66	80	79	80	85	86	95	83.2	
				MIN	72	70	67	67	54	49	46	50	54	64	67	69	61	48	67	65	66	66	64	66	66	74	63	54	54	52	58	62	70	75	62.0	
GREENWOOD 2 NE			18	MAX																														M		
				MIN																														M		
LEWES			17	MAX	94	83	80	73	73	70	76	83	83	91	90	90	85	79	93	97	95	82	69	85	91	90	75	79	80	80	83	89	93	96	84.2	
				MIN	72	69	69	64	58	52	50	57	64	66	70	70	64	57	57	78	76	65	64	67	71	70	63	63	57	57	57	67	75	75	64.8	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAY OF MONTH

TOTAL OR AVG	
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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

STATION INDEX

MARYLAND AND
DELAWARE
JUNE 1991

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER
							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
MARYLAND ABERDEEN PHILLIPS FLD ANNAPOLIS POLICE BRKS ASSATEAGUE IS NATL SEA BALTIMORE WSO ARPT BALTIMORE WSO CITY # BELTSVILLE BENSON POLICE BARRACKS BOYDS 2 NW	001506 019304 033501 046504 047006 070004 073206 103206	R R	HARFORD ANNE ARUNDEL WORCESTER ANNE ARUNDEL BALTIMORE CI PRINCE GEORG HARFORD MONTGOMERY	39 28 38 59 38 14 39 11 39 17 39 2 39 30 39 13	76 10W 76 30W 75 8W 76 40W 76 37W 76 53W 76 23W 77 20W	57 30 7 148 14 120 365 580	16 17 17 MID MID 08 17 18	16 17 07 MID MID 08 17 18	C H H C C C H H	ROSS AVIATION INC ANNAPOLIS POLICE BRKS NATIONAL PARK SERVICE NATL WEATHER SERVICE OCMI COMMANDING OFFICER US DEPT OF AGRICULTURE MARYLAND STATE POLICE INACTIVE 02/01/91	
CAMBRIDGE WATER TRMT P CATOCTIN MOUNTAIN PARK CHESTERTOWN CLARKSVILLE 3 NNE COLLEGE PARK CONOWINGO DAM CRISFIELD SOMERS COVE CUMBERLAND 2 DALECARLIA RESVR DC	138502 153006 175005 186206 199504 206006 221501 228207 232504		DORCHESTER FREDERICK KENT HOWARD PRINCE GEORG HARFORD SOMERSET ALLEGANY DIS COLUMBIA	38 34 39 39 39 13 39 15 38 59 39 39 37 59 39 38 39 56	76 4W 77 29W 76 4W 76 56W 76 57W 76 10W 75 52W 78 45W 77 7W	10 1610 339 365 90 39 8 730 151	16 17 23 17 09 MID 17 18 17	16 17 23 17 09 MID 17 07 17	C H H H C C H H H	WASTEWATER TRMT PLANT CATOCTIN MOUNTAIN PARK THOMAS W ELIASON JR UNIVERSITY OF MARYLAND UNIVERSITY OF MARYLAND SUSQUEHANNA ELECTRIC CO INACTIVE 03/01/91 TIMOTHY B THOMAS U S CORPS OF ENGINEERS	
DAMASCUS 2 SW DENTON 2 E EDGEMONT EMMITSBURG 2 SE FREDERICK POLICE BRKS FROSTBURG 2 GLENN DALE BELL STN HAGERSTOWN HANCOCK	233506 252302 277007 290606 334806 341507 367504 397507 403007		MONTGOMERY CAROLINE WASHINGTON FREDERICK FREDERICK ALLEGANY PRINCE GEORG WASHINGTON WASHINGTON	39 16 38 53 39 40 39 41 39 25 39 40 38 58 39 39 39 42	77 14W 75 48W 77 33W 77 18W 77 26W 78 56W 76 48W 77 44W 78 11W	722 49 905 420 381 2172 151 659 428	19 17 07 17 17 07 16 08 08	19 17 07 17 17 07 16 08 08	H H H H H H H H C	RICHARD W SCHWERDT INACTIVE 04/01/90 JOHN W HARNE MRS LUCILLE K BEALE MARYLAND STATE POLICE LEE K CLOSE USDA PLT INTRODUCT STN HAGERSTOWN RESERVOIR TOWN OF HANCOCK	
LA PLATA 1 W LAUREL 3 W MC HENRY 2 NW MECHANICSVILLE 5 NE MERRILL MILLERS 4 NE MILLINGTON 1 SE NATIONAL ARBORETUM DC OAKLAND 1 SE	508003 511104 583208 586503 589408 593406 598505 635004 662008		CHARLES PRINCE GEORG GARRETT ST MARYS GARRETT CARROLL KENT DIS COLUMBIA GARRETT	38 32 39 6 39 35 38 27 39 36 39 43 39 16 38 54 39 24	77 0W 76 54W 79 22W 76 41W 79 5W 76 48W 75 52W 76 59W 79 24W	140 400 2680 100 1791 860 30 49 2421	18 MID 08 19 09 18 18 08 17	18 MID 08 19 09 18 18 08 17	C H H H C H H H H	C RUSSELL LEVERING WASH SUB SANY COMM JOSEPH F JOHENNING SANDRA J HASTINGS DELWOOD E MERRILL BOBBY P MILLER HOWARD L HARVEY U S NATL ARBORETUM BEA J CROSCO	
OWINGS FERRY LANDING POTOMAC FILTER PLANT PRINCESS ANNE ROCKVILLE 1 NE ROYAL OAK 2 SSW SALISBURY SALISBURY FAA ARPT # SAVAGE RIVER DAM SNOW HILL 4 N	677003 727206 733001 770506 780602 800001 800501 806508 838001		CALVERT MONTGOMERY SOMERSET MONTGOMERY TALBOT WICOMICO WICOMICO GARRETT WORCESTER	38 41 39 2 38 13 39 6 38 43 38 22 38 20 39 31 38 14	76 40W 77 15W 75 41W 77 6W 76 11W 75 35W 75 31W 79 8W 75 23W	160 269 20 440 10 10 48 1495 30	17 08 17 MID 18 17 MID MID 18	17 08 17 17 18 17 08 08 18	H H H H H H H H H	JAMES C RASMUSSEN POTOMAC WATER FILT PLT UNIV OF MD EASTERN SHORE WASHINGTON GAS AND LIGHT JOHN L SWAINE JR CITY OF SALISBURY FAA US CORPS OF ENGINEERS CURTIS E SHOCKLEY	
TALL TIMBERS TOWSON UNIONVILLE UPPER MARLBORO 3 NNW VIENNA WESTMINSTER POLICE BRK WOODSTOCK	875703 887706 903006 907004 914002 944006 975006		ST MARYS BALTIMORE FREDERICK PRINCE GEORG DORCHESTER CARROLL BALTIMORE	38 10 39 23 39 27 38 52 38 29 39 33 39 20	76 33W 76 34W 77 11W 76 47W 75 50W 76 58W 76 52W	12 390 430 98 10 765 459	17 18 07 08 18 17 18	17 18 07 08 18 17 18	H C H H H H H	INACTIVE 01/01/91 BENDIX FRIEZ RICHARD GETZANDANNER UNIVERSITY OF MARYLAND DELMARVA POWER & LIGHT MARYLAND STATE POLICE JOHN A HILTZ	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
JUNE 1991

STATION INDEX												JUNE 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	
GEORGETOWN 5 SW	3570	02	SUSSEX	38 38	75 27W	45	08	08	08	C	H	UNIV OF DEL SUBSTATION	
GREENWOOD 2 NE	3595	02	SUSSEX	38 50	75 35W	45	18	18			H	DANIEL M SWARTZENTRUBER	
LEWES	5320	02	SUSSEX	38 46	75 8W	15	17	17			H	BOARD OF PUBLIC WORKS	
MILFORD 4 SE	5915	02	SUSSEX	38 54	75 28W	30	17	17			H	INACTIVE 05/01/91	
NEWARK UNIVERSITY FARM	6410	01	NEW CASTLE	39 40	75 44W	90	17	17	17	C	H	UNIV OF DEL AGRIC FARM	
WILMINGTON WSD ARPT	9595	01	NEW CASTLE	39 40	75 36W	79	MID	MID		C	H J	NATL WEATHER SERVICE	
WILMINGTON PORTER RSVR	9605	01	NEW CASTLE	39 46	75 32W	274	MID	MID			H	WATER DEPARTMENT	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

MARYLAND AND
DELAWARE
JUNE 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. JUNE 1991-0585

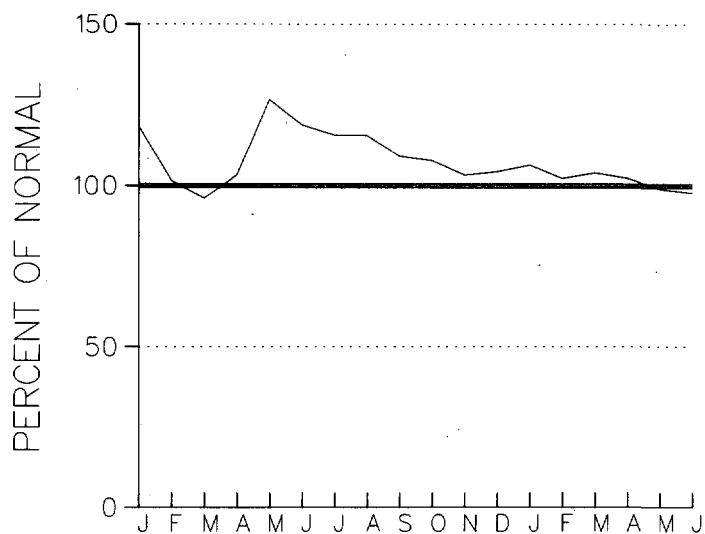
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980) FOR THE LAST 18 MONTHS ENDING JUNE 1991 MARYLAND

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

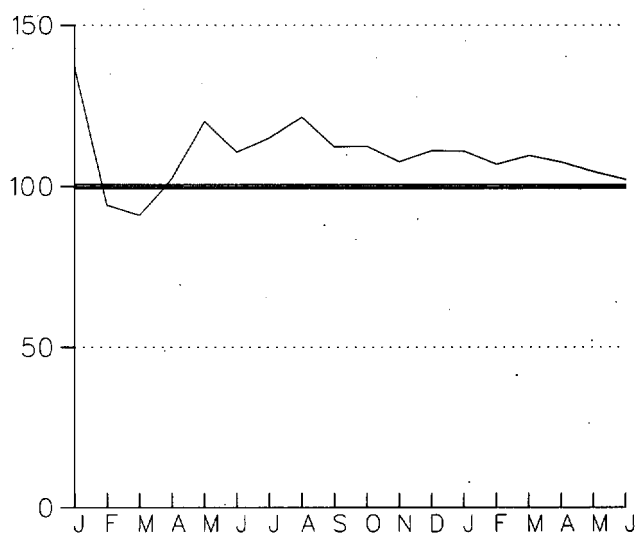
CLUSTER 2 -DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

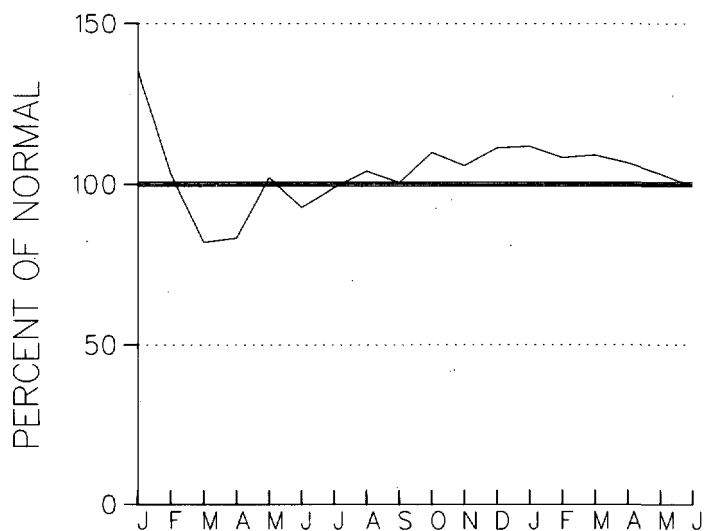
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



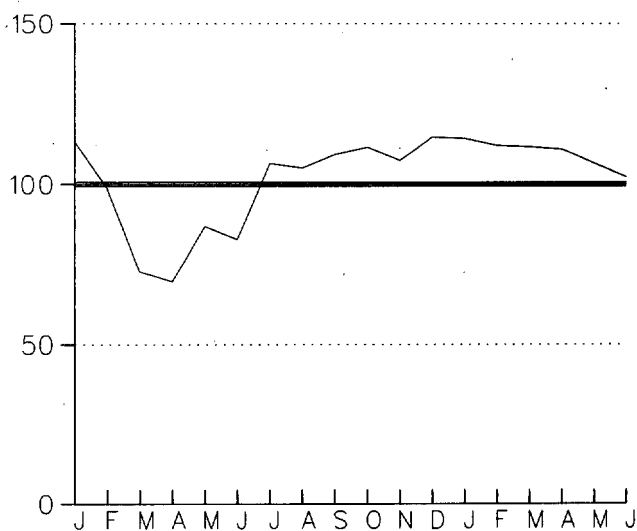
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CLUSTER 2



CLUSTER 3

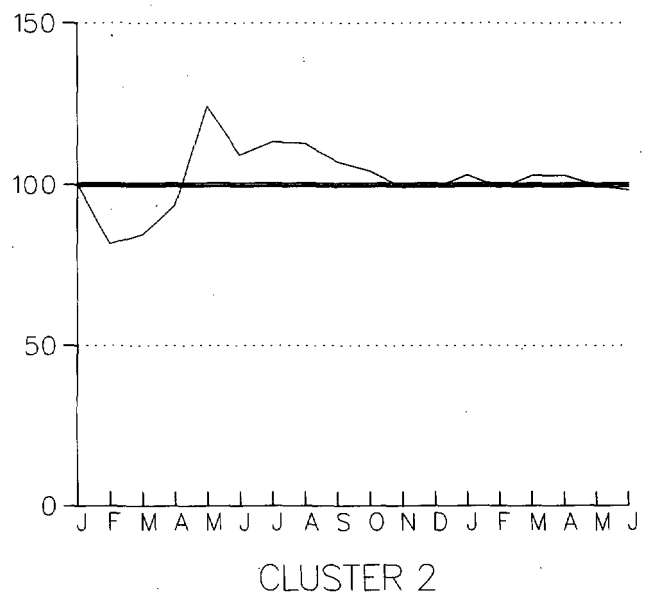


CLUSTER 4

CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE LAST 18 MONTHS
ENDING JUNE 1991
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



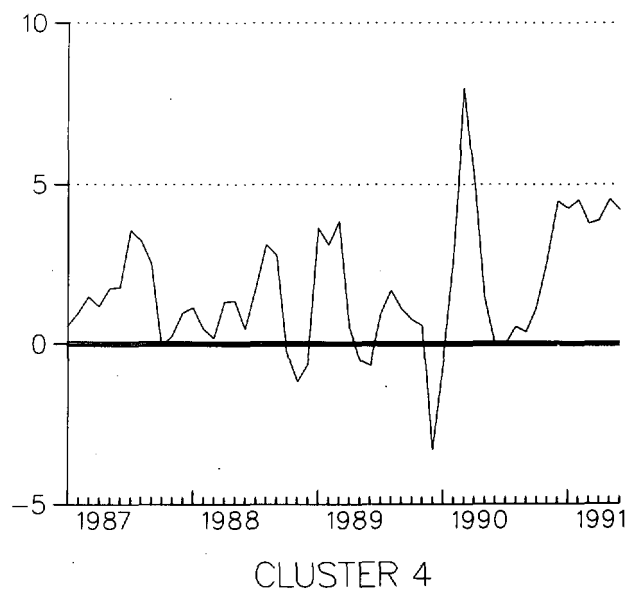
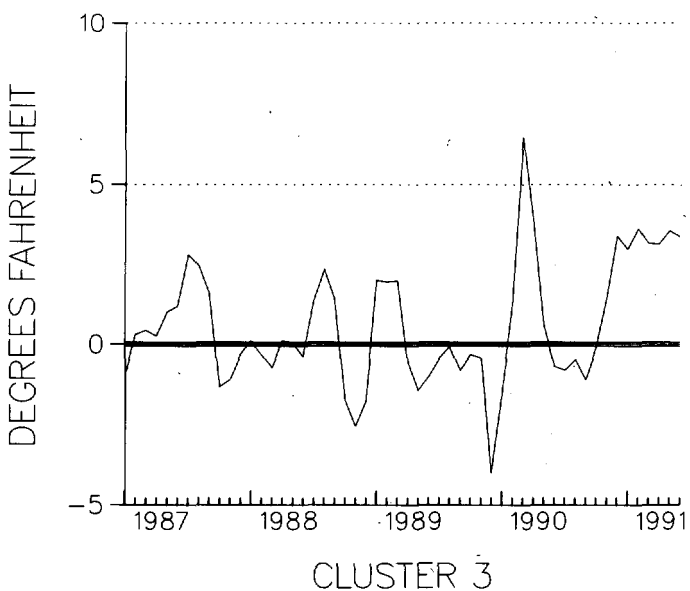
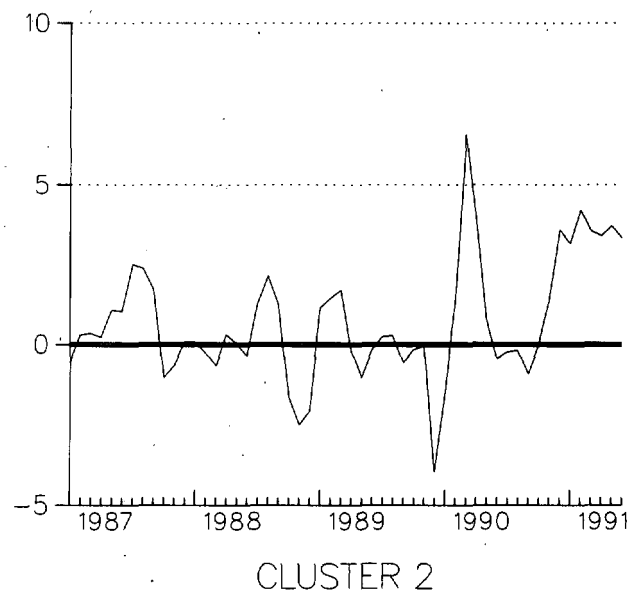
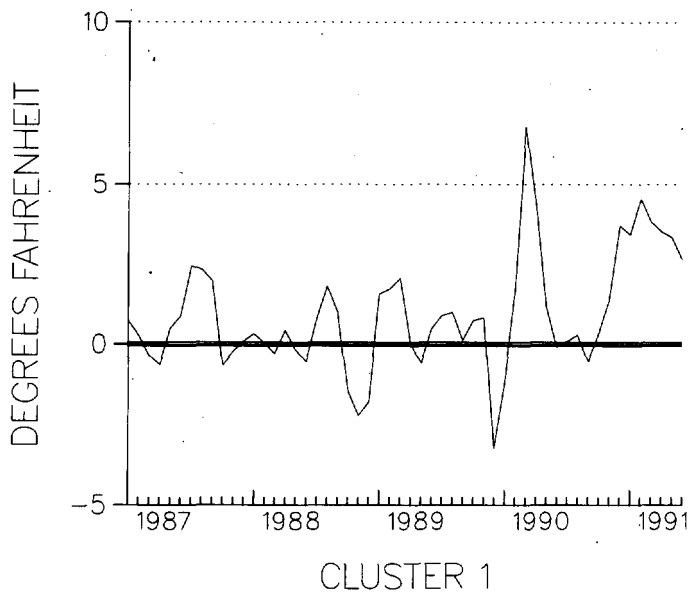
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)
THREE MONTH RUNNING MEAN
FOR THE 54 MONTHS ENDING WITH JUNE 1991 DATA
MARYLAND

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

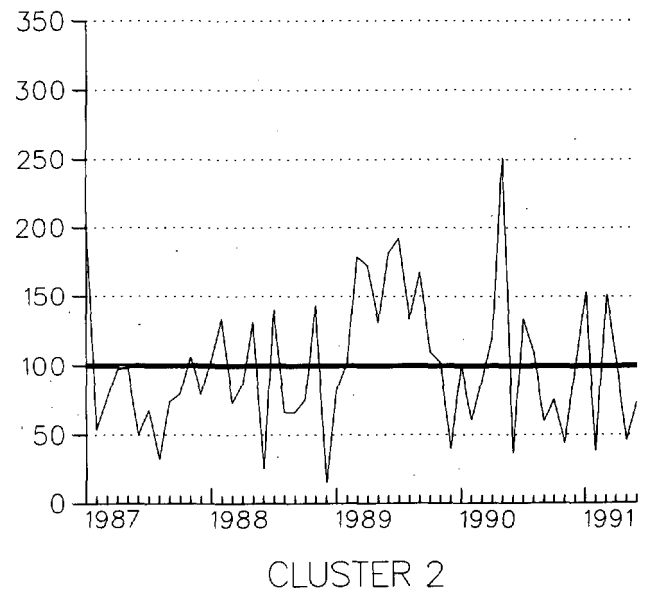
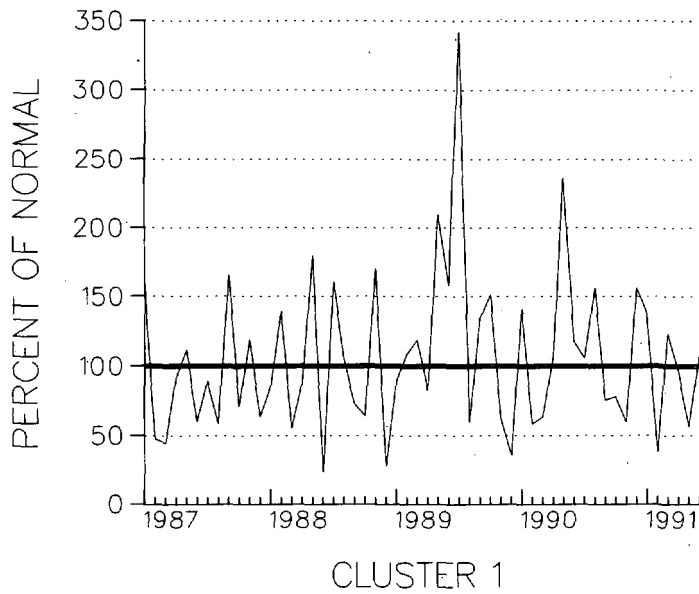
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE 54 MONTHS
ENDING JUNE 1991
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



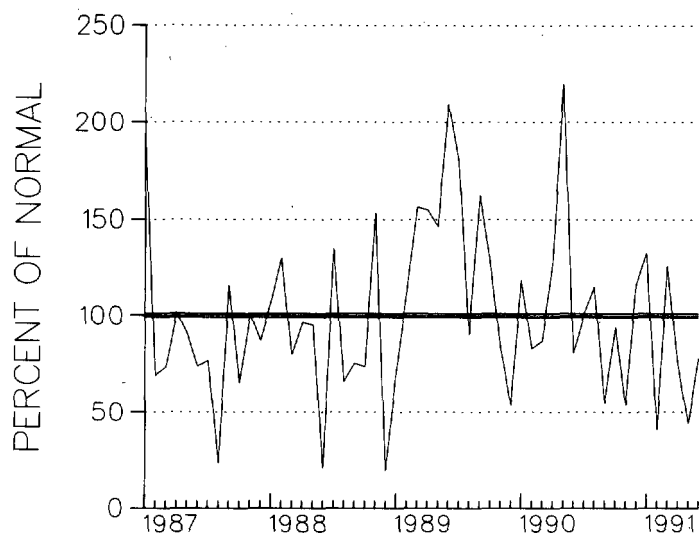
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980) FOR THE 54 MONTHS ENDING JUNE 1991 MARYLAND

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

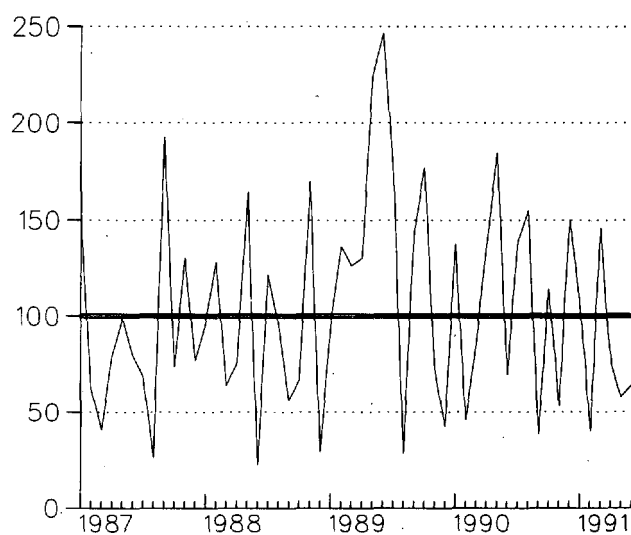
CLUSTER 2 -DIVISION(S):
 UPPER SOUTHERN 04
 NORTHERN EASTERN SHORE 05

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

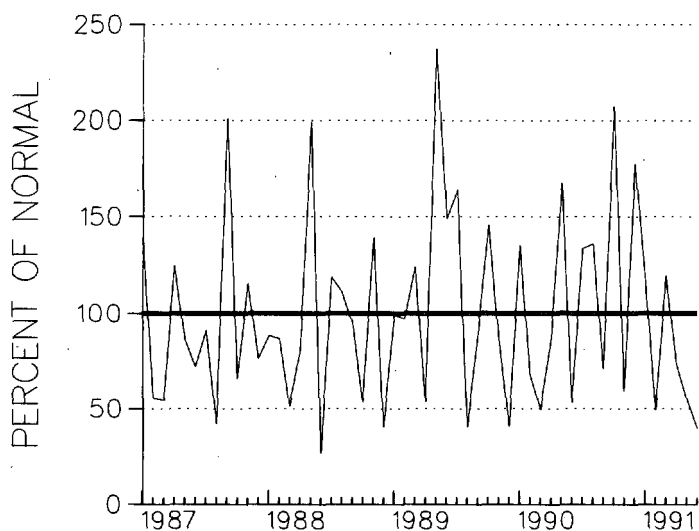
CLUSTER 4 -DIVISION(S):
 ALLEGHENY PLATEAU 08



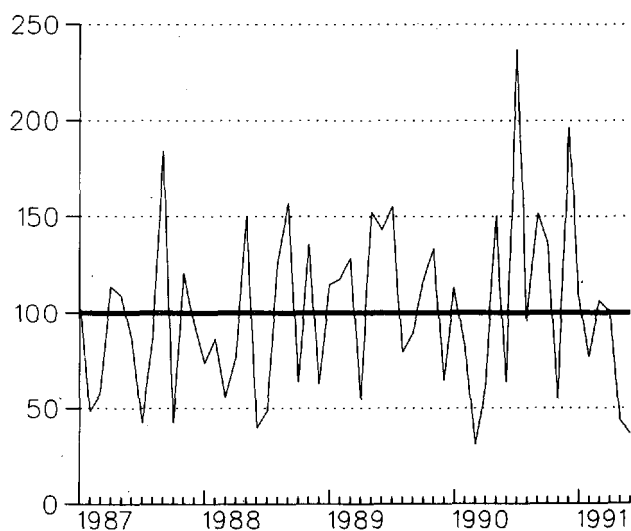
CLUSTER 1



CLUSTER 2

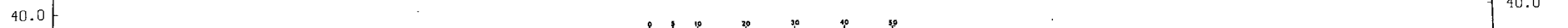


CLUSTER 3



CLUSTER 4

STATUTE MILES



DATA PUBLISHED IN:

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

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

76.0
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75.0

40.0

07 — DELAWARE

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

STATUTE MILES



STATION LEGEND

DATA PUBLISHED IN:

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

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

DIVISIONS

- 1 NORTHERN
- 2 SOUTHERN

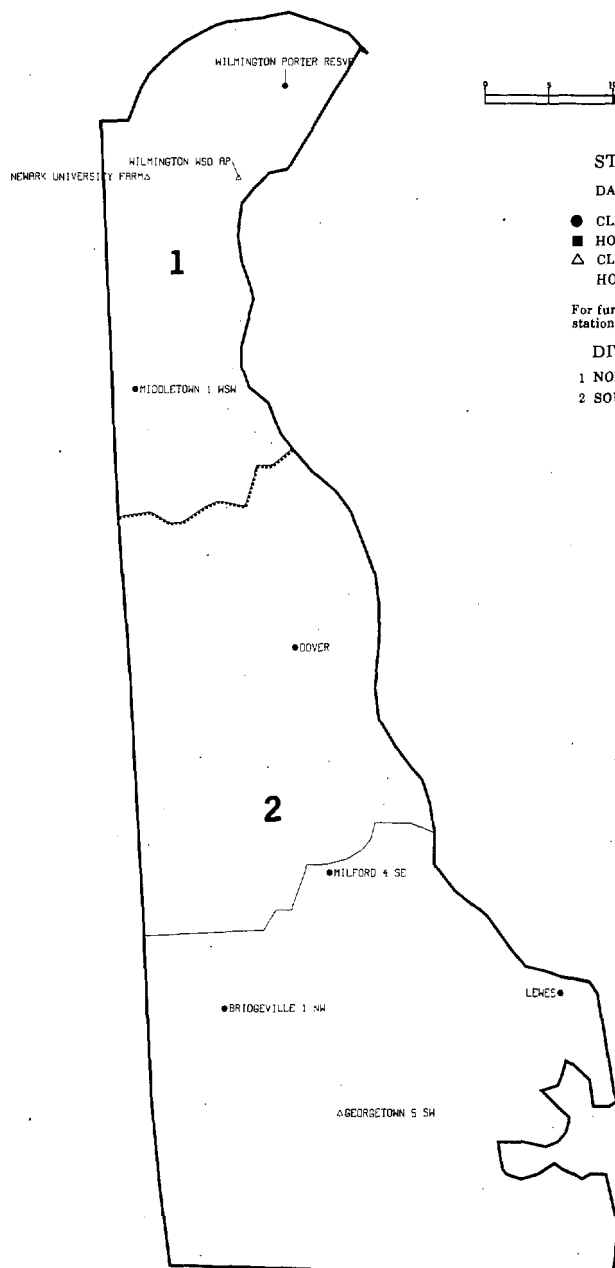
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MONTHLY PRECIPITATION TOTALS													ANNUAL 1987 NORTH CAROLINA	
STATION	ANNUAL	MONTH												
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
ISSN 0364-6319														
NORTH CAROLINA														
ASHEVILLE WSO AP	34.57	1.11	1.85	2.25	0.57	3.95					4.19	5.28	4.28	
ASHEVILLE	25.57	0.71	1.57	1.81	0.53	2.8					2.77	4.15	2.34	
ASHFORD	36.74E	1.20	2.70	2.90	0.54						3.80	4.90	4.80	
BADIN	-	1.70	1.50	3.60	1.24						2.40	4.10	2.90	
B EVERETT JORDAN DAN	-	1.70	1.50	3.60	1.24							1.70		
BODHER 5 WSO	-	1.00	2.10	3										
BURLINGTON 3 WNE	-	0.60	1.92E											
CAPE HATTERAS WSO	48.86	5.75												
CARTHAGE 4 SE	-	1.70												
CATALDOCKEE	-	0.50												
CHARLOTTE WSO AP	26.91													
CLINTON 2 NE	35													
DALTON	-													
DOBSON	-													
EDEN	-													
ELIZABETH	-													
FAVE	-													
FRANKLIN	-													
GREENSBORO	-													
GREENSBORO	-													
HOBOKEN	-													
LAKE LURE	-													
LAUREL HURD	-													
LINTON	-													
MOORESVILLE 2	-													
MOREHEAD CITY	-													
MOUNT PLEASANT	-													
N WILKESBORO 12	-													
POLKTON 2 NE	-													
QUEBEC	-													
RALEIGH-DURHAM WSO	-													
ROANOKE RAPIDS	-													
ROARING GAP 1 NW	-													
SHELBY 2	-													
SNEADS FERRY 2 ENE	-													
SWANANOA 2 SSE	-													
WILKESBORO WSO AP	-													
WILSON 3 SW	-													
YADKINVILLE 6 E	26													

HOURLY
PRECIPITATION DATA
NORTH CAROLINA

DECEMBER 1987
WITH ANNUAL SUPPLEMENT
VOLUME 37 NUMBER 12

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NORTH CAROLINA

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DECEMBER 1987
WITH ANNUAL SUPPLEMENT
VOLUME 37 NUMBER 12

31 - NORTH CAROLINA

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HOURLY PRECIPITATION DATA

NORTH CAROLINA

JANUARY 1987

VOLUME 37 NUMBER 1



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

SHELF STOCK of the printed publication is maintained only for the most recent 3 years. Earlier years are available on microfiche or paper copies reproduced from microfiche. The data is also available in digital form - on magnetic tape or floppy disk.

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

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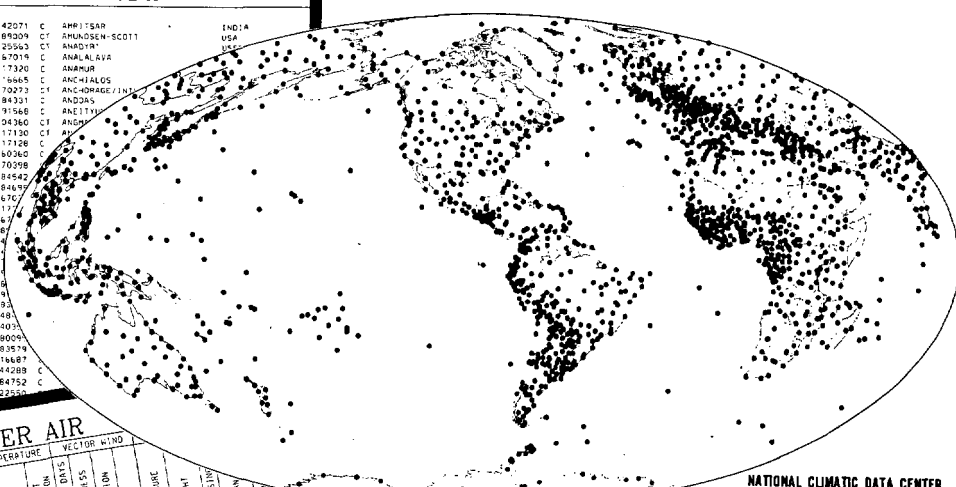
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OCEANIC AND
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ENVIRONMENTAL SATELLITE, DATA
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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

STATION LIST WMO PUB 9 VOL A

41246 C	ISHWARI MAJES	OWAN	42071 C	AMPI/SAR	INDIA
40831 C	ABADAN	IRAN, ISLAMIC REP	69009 CT	SHAWNEEN-SCOTT	USA
474209	ABASHIR	JAPAN	25563	CT ANADIR	USA
411103	ABDUS/SPD, B.C.	CANADA	670719	CT ANAL/ASA	USA
64756	ABECHE	CHAD	71736	CT ANAPUR	USA
03091	ABERDEEN/VOICE	U KINGDOM	6	ANCIALDS	
41112 C	ABUAS	SAUDI ARABIA	70273	CT ANCHARGE/INTL	
65578 C1	ABU DHABI	COTE D'IVOIRE	84031	ANADAN	
72246	ABULINC, TX	USA	91568	CT ANET/VI	
4216	ABU DHABI, BAHRAIN AIRPORT	U ARAB EMIRATES	04360	CT ANET/VI	
4219	ABU DHABI INTL AIRPORT	U ARAB EMIRATES	17121	CT ANET/VI	
42640	ABU NAMED	SUDAN	17126	CT ANET/VI	
62795	ABU WAHA	SUDAN	80360	CT ANET/VI	
78850	ACAJUTLA	EL SALVADOR	70598	CT ANET/VI	
78805	ACAPULCO, -GRD.	MEXICO	84542	CT ANET/VI	
80927	ACAPULCO	VENEZUELA	84699	CT ANET/VI	
ADANA	12852	TURKEY	676	CT ANET/VI	
63456 C1	ADDIS ABABA	ETHIOPIA	48	CT ANET/VI	
94672 C1	ADOLLAID AIRPORT	AUSTRALIA	48	CT ANET/VI	
41467	ADEN ANCHORAGE	YEM YEM	48	CT ANET/VI	
65585	ADRIKE	COTE D'IVOIRE	48	CT ANET/VI	
60620	ADRIK	ALGERIA	48	CT ANET/VI	
76678	CT AEROP. INTL. MEXICO, D.F.	MEXICO	48	CT ANET/VI	
76644	CT AEROP. INTL. MEXICO, TUC	MEXICO	48	CT ANET/VI	
76396	CT AEROP. INTL. MONTERREY, N.L.	MEXICO	48	CT ANET/VI	
87582	CT AEROP. INTL. MONTERREY, N.L.	MEXICO	48	CT ANET/VI	
17190	ADRIK	ALGERIA	48	CT ANET/VI	
61024	AGADEZ	TUNISIA	48	CT ANET/VI	
60250	AGADIR	MOROCCO	48	CT ANET/VI	
51874	AGALCEA	MAURITIUS	48	CT ANET/VI	
42681	AGRA	INDIA	48	CT ANET/VI	
18672	AGNINION (AIRPORT)	GREECE	48	CT ANET/VI	
42647	AGNINION	INDIA	48	CT ANET/VI	
60580	AJIN SEFAR	ALGERIA	48	CT ANET/VI	
61499	AJOUN EL ATOUSS	ALGERIA	48	CT ANET/VI	
67521	AJACCIO	FRANCE	48	CT ANET/VI	
31168	AJMAN	UAE	48	CT ANET/VI	
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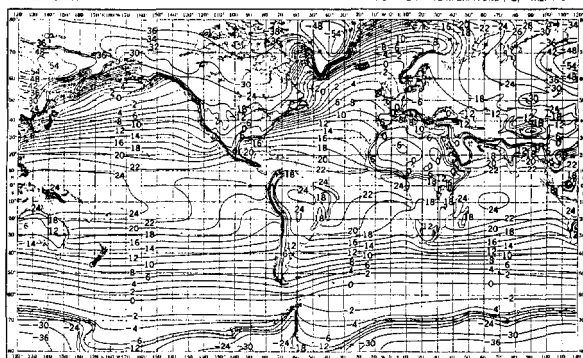
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ISSN 0027-0296



JANUARY DEW-POINT TEMPERATURE (°C) - MEANS



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Kenneth D. Wadsworth
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL ENVIRONMENTAL, SATELLITE, DATA AND INFORMATION SERVICE NATIONAL CLIMATE DATA CENTER ASHEVILLE, NORTH CAROLINA

MONTHLY CLIMATIC DATA for the WORLD (MCDW) is a publication of monthly summaries of climatic data from around the world. Data are prepared by Members of the World Meteorological Organization for selected stations and exchanged via the Global Telecommunications System in coded format.

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, isobars, low point depressions, wind 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.

Currently, world maps of long term mean temperatures, dew points, and sea level pressures are included on the cover of the MCDW. The maps are generally representative of conditions during the 1950's to mid-1970's, however some data may be from as early as the 1850's.

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

**For further information,
call or write to the**

NATIONAL CLIMATIC DATA CENTER

Federal Building, Asheville, N. C. 28801-2696

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A WORLD OF INFORMATION

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ARIZONA
DECEMBER
WITH ANNUAL SUPPLEMENT

VOLUME 35 NUMBER

CLIMATOLOGICAL DATA
ARIZONA

DATE		TIME		LOCATION		WIND		WAVE		SEA		TEMP		HUMID		PRESS		VISIB		CLOUD		REMARKS	
DAY	MONTH	YEAR	HOUR	MIN	SEC	DIRECTION	VELOCITY	HEIGHT	PERIOD	STATE	TEMP	REL	AIR	SEA	WIND	WAVE	SEA	WIND	WAVE	SEA	WIND	WAVE	SEA
1	1	1962	00	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
2	1	1962	01	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
3	1	1962	02	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
4	1	1962	03	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
5	1	1962	04	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
6	1	1962	05	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
7	1	1962	06	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
8	1	1962	07	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
9	1	1962	08	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
10	1	1962	09	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
11	1	1962	10	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
12	1	1962	11	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
13	1	1962	12	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
14	1	1962	13	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	1	1962	14	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
16	1	1962	15	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
17	1	1962	16	00	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
18	1	1962	17	00	00	000	00																

TEMPERATURE (DEGREES FARENHEIT)

Daily Data

NATIONAL WEATHER SERVICE

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

PRECIPITATION (INCHES)

HOURS OF SUNSHINE

STATION: TUCSON, ARIZONA

DATE: 1/1/1961

TIME: 12:00 PM

TEMPERATURE: 80

PRECIPITATION: 0.0

HOURS OF SUNSHINE: 12

STATION: TUCSON, ARIZONA

DATE: 1/1/1961

TIME: 12:00 PM

TEMPERATURE: 80

PRECIPITATION: 0.0

HOURS OF SUNSHINE: 12

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CD

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