

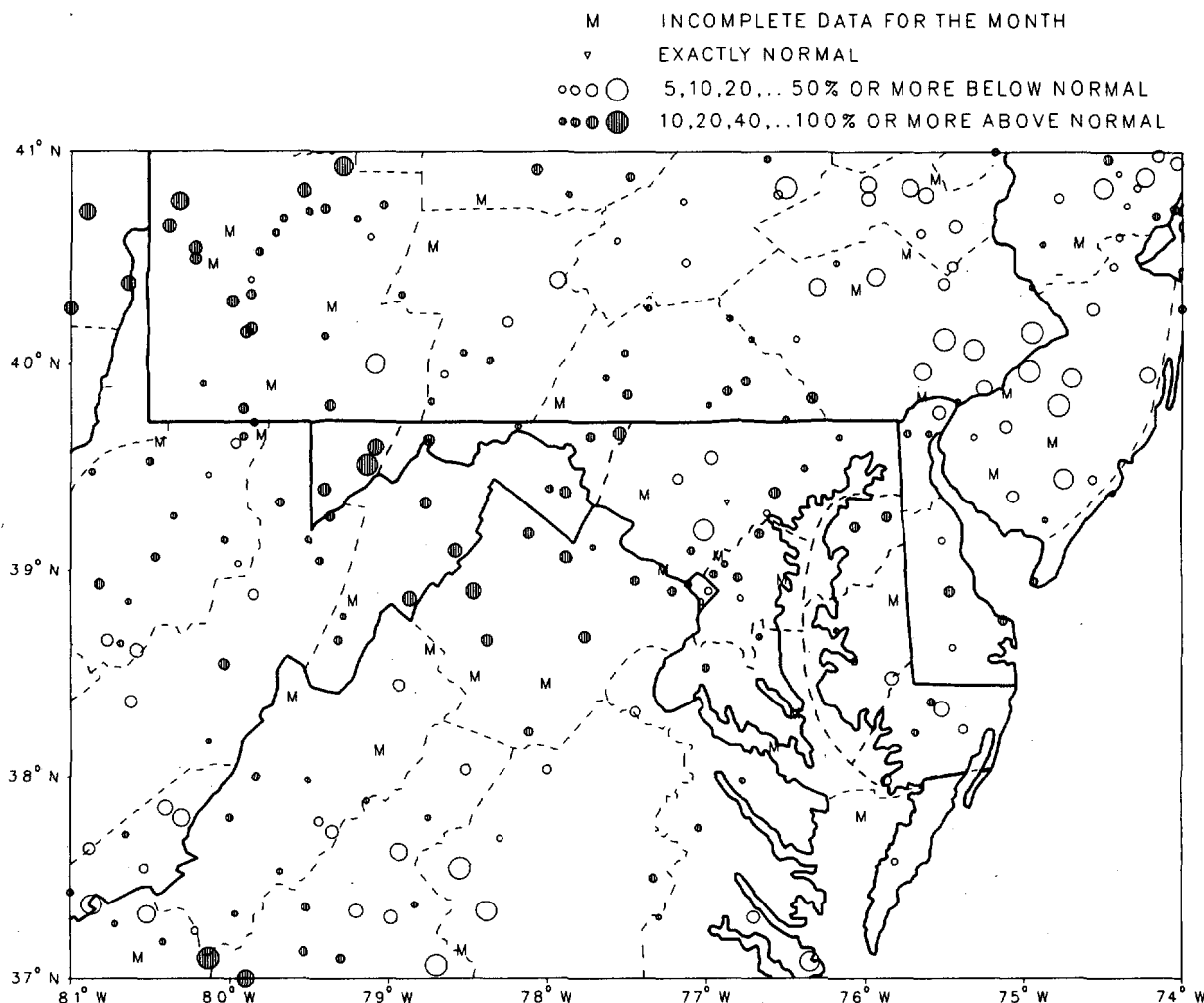


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CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

JULY 1990
VOLUME 94 NUMBER 7

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

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ASHEVILLE NORTH CAROLINA

TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND AND
DELAWARE
JULY 1990

MARYLAND
HIGHEST TEMPERATURE 105
LOWEST TEMPERATURE 46
GREATEST TOTAL PRECIPITATION 11.16
LEAST TOTAL PRECIPITATION 1.81
GREATEST 1 DAY PRECIPITATION 3.90

JULY 5
JULY 3

JULY 13

CONOWINGO DAM
OAKLAND 1 SE
MC HENRY 2 NW
BRIGHTON DAM
SAVAGE RIVER DAM

DELAWARE
HIGHEST TEMPERATURE 100
LOWEST TEMPERATURE 56
GREATEST TOTAL PRECIPITATION 7.14
LEAST TOTAL PRECIPITATION 3.19
GREATEST 1 DAY PRECIPITATION 2.43

JULY 5
JULY 3

JULY 5

MILFORD 4 SE
GEORGETOWN 5 SW
MILFORD 4 SE
WILMINGTON PORTER RSVR
WILMINGTON WSO ARPT R

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
JULY 1990

STATION	TEMPERATURE (°F)													PRECIPITATION (IN)										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW SLEET			NO. OF DAYS		
											90 OR ABOVE	32 OR BELOW	32 OR BELOW	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	81.0	68.4	74.7		94	6	55	2	0	308	1	0	0	0	2.26		.93	24	.0	0		4	1	0
CRISFIELD SOMERS COVE	86.7	73.1	79.9	1.2	96	25+	62	3	0	471	6	0	0	0	3.18	-.59	1.48	27	.0	0		5	2	1
PRINCESS ANNE	89.5	67.5	78.5	2.2	96	6+	55	3	0	427	16	0	0	0	4.63	-.81	1.82	24	.0	0		7	2	1
SALISBURY	88.9	69.0	79.0	2.2	96	5+	59	3	0	441	13	0	0	0	4.88	-1.12	1.49	24	.0	0		9	2	1
SALISBURY FAA ARPT	87.6	68.8	78.2	1.7	96	5	57	3	0	417	12	0	0	0	3.06	-1.34	.84	10	.0	0		10	2	0
SNOW HILL 4 N	88.5	68.7	78.6	2.7	97	5	60	2	0	430	5	0	0	0	3.53	-.46	1.11	11	.0	0		9	2	1
--DIVISIONAL DATA----->			78.2	1.6											3.59	-.34			.0					
CENTRAL EASTERN SHORE 02																								
CAMBRIDGE WATER TRMT P	89.7	70.1	79.9	3.0	99	5	62	3	0	472	14	0	0	0	5.10	-.79	1.20	13	.0	0		8	4	2
ROYAL OAK 2 SSW	87.7	69.3	78.5	.8	96	5	63	13	0	427	9	0	0	0	4.45	-.06	1.42	6	.0	0		6	4	2
VIENNA	91.0	65.5	78.3	.9	101	5	59	3+	0	420	21	0	0	0	2.99	-.95	.60	23	.0	0		9	2	0
--DIVISIONAL DATA----->			78.9	1.7											4.18	.04			.0					
LOWER SOUTHERN 03																								
LA PLATA 1 W	84.5	67.4	76.0	.1	94	5	61	3+	0	347	4	0	0	0	5.17	1.14	1.58	21	.0	0		6	5	2
MECHANICSVILLE 5 NE	85.7	67.5	76.6		95	5	58	3	0	369	6	0	0	0	3.98		2.22	29	.0	0		6	2	1
OWINGS FERRY LANDING	86.6	67.1	76.9	.6	95	5	61	2	0	376	8	0	0	0	4.11	.45	1.01	13	.0	0		8	3	1
PATUXENT RIVER	M	M	M																M	M				
TALL TIMBERS	M	M	M																M	M				
--DIVISIONAL DATA----->			76.5	-.2											4.42	.32			.0					
UPPER SOUTHERN 04																								
ANNAPOLIS POLICE BRKS	M	M	M																M	M				
BALTIMORE WSO ARPT	R 87.6	69.1	78.4	1.6	101	9	62	13	1	422	8	0	0	0	5.68	1.79	2.35	12	.0	0		7	4	1
BELTSVILLE	88.2	66.4	77.3	2.1	101	6	59	3	0	387	14	0	0	0	4.71	-.57	2.42	13	.0	0		6	2	2
COLLEGE PARK	88.6	69.1	78.9	1.7	100	10+	60	3	0	438	13	0	0	0	5.25	1.19	2.11	13	.0	0		6	3	3
DALECARLIA RESVR DC	89.6	62.4	76.0	-1.2	99	5	54	13	0	349	13	0	0	0	4.96	.92	1.87	13	.0	0		8	3	2
GLENN DALE BELL STN	88.7	65.1	76.9	1.3	97	6+	57	2	0	374	14	0	0	0	6.01	1.70	2.34	13	.0	0		6	4	2
LAUREL 3 W	M	M	M																M	M				
NATIONAL ARBORETUM DC	88.8	68.3	78.6	.9	100	6	61	3	0	425	16	0	0	0	3.94	-.26	1.55	15	.0	0		6	2	2
UPPER MARLBORO 3 NNW	87.2	62.7	75.0		97	6	56	3+	0	317	9	0	0	0	4.01	-.05	1.30	15	.0	0		8	3	1
--DIVISIONAL DATA----->			77.3	.8											4.94	.95			.0					
NORTHERN EASTERN SHORE 05																								
CHESTERTOWN	87.4	67.0	77.2	.3	98	5	62	14+	0	387	12	0	0	0	6.02	2.08	1.62	12	.0	0		8	4	2
MILLINGTON 1 SE	87.1	66.8	77.0	1.4	96	5	60	13+	0	379	7	0	0	0	6.08	2.21	1.83	13	.0	0		10	3	2
--DIVISIONAL DATA----->			77.1	.6											6.05	2.12			.0					
NORTHERN CENTRAL 06																								
ABERDEEN PHILLIPS FLD	M	M	M																M	M				
BALTIMORE WSO CITY	R 89.8	72.8	81.3	1.4	104	9+	61	13	1	513	18	0	0	0	4.32	-.15	1.87	13	.0	0		4	2	1
BENSON POLICE BARRACKS	89.7	64.3	77.0	2.1	100	10+	56	13	0	380	17	0	0	0	4.92	.57	2.01	13	.0	0		5	2	1
BOYDS 2 NW	84.4	66.2	75.3		95	9	58	13	0	326	4	0	0	0	4.10		1.20	12	.0	0		9	3	2
CATOCTIN MOUNTAIN PARK	79.3	63.9	71.6		90	9+	55	13	3	214	3	0	0	0	5.88		1.23	13	.0	0		10	5	2
CLARKSVILLE 3 NNE	89.1	64.7	76.9		93	10+	55	13	0	375	11	0	0	0	3.92		1.77	13	.0	0		7	2	1
COWINGO DAM	89.6	64.9	77.3	2.2	105	5	58	13	0	387	16	0	0	0	4.68	.31	1.32	12	.0	0		11	7	2
DAMASCUS 2 SW	84.8	65.8	75.3		96	9	57	2	1	330	4	0	0	0	3.11		.86	13	.0	0		7	2	0
EMMITSBURG 2 SE	83.9	64.3	74.1		96	9+	57	3	0	290	4	0	0	0	4.65		1.15	13	.0	0		11	3	1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
JULY 1990

STATION	TEMPERATURE (°F)													PRECIPITATION (IN)										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW SLEET			NO. OF DAYS		
											90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	1.00 OR MORE
FREDERICK POLICE BRKS	89.0	67.3	78.2		102	10	58	14	0	416	11	0	0	0	6.22		2.00	13	.0	0		9	3	3
MILLERS 4 NE	83.1	64.7	73.9		94	4	57	13		284	3	0	0	0	3.21		1.78	13	.0	0		14	1	0
ROCKVILLE 1 NE	83.3	66.9	75.1	-.6	95	9	59	13	3	323	4	0	0	0	4.65	.87	1.83	12	.0	0		8	3	1
TOWSON	86.5	67.2	76.9		95	9	59	13	0	373	5	0	0	0	7.03	.90	2.20	13	.0	0		9	5	3
UNIONVILLE	86.0	63.6	74.8	1.2	95	9	53	3	0	311	6	0	0	0	3.07	.52	1.34	13	.0	0		8	1	1
WESTMINSTER POLICE BRK	87.3	63.7	75.5	1.3	97	9	54	26	0	331	10	0	0	0	3.09	.91	1.73	13	.0	0		9	1	0
WOODSTOCK	87.5	66.5	77.0	2.1	97	5	58	3	0	378	8	0	0	0	3.56	.00	1.83	13	.0	0		7	1	1
--DIVISIONAL DATA-->			76.0	.9											4.39	.49			.0					
APPALACHIAN MOUNTAIN 07																								
CUMBERLAND 2	85.6	61.7	73.7	-.7	97	9	55	31+	2	278	6	0	0	0	5.47	2.28	1.32	1	.0	0		9	4	2
FROSTBURG 2	77.4	59.2	68.3		87	10	53	3	17	126	0	0	0	0	7.42		1.65	1	.0	0		12	6	3
HAGERSTOWN	M 85.5	M 62.2	M 73.9	1.0	100	10	57	13			4	0	0	0	4.86	1.52	1.18	13	.0	0		7	5	1
HANCOCK					99	10	55	2	3	286	6	0	0	0	3.81	.25	.65	11	.0	0		8	4	0
--DIVISIONAL DATA-->			72.0	-1.4											5.39	1.97			.0					
ALLEGHENY PLATEAU 08																								
MC HENRY 2 NW	77.7	58.7	68.2		87	10	51	2	22	129	0	0	0	0	11.16		2.80	1	.0	0		13	6	6
OAKLAND 1 SE	78.4	56.8	67.6	-.2	87	9	46	3	15	105	0	0	0	0	8.75	4.07	2.78	1	.0	0		12	5	3
SAVAGE RIVER DAM	80.4	58.4	69.4	-.1	89	10	52	27+	9	153	0	0	0	0	10.42	6.80	3.90	13	.0	0		10	5	3
--DIVISIONAL DATA-->			68.4	.7											10.11	5.84			.0					
DELAWARE																								
NORTHERN 01																								
NEWARK UNIVERSITY FARM	86.9	66.2	76.6	.9	96	5	58	13	0	367	8	0	0	0	5.26	.94	1.95	5	.0	0		9	3	2
WILMINGTON WSO ARPT	86.1	68.7	77.4	1.4	98	5	60	13	2	395	6	0	0	0	4.27	.37	2.43	5	T	T		6	2	1
WILMINGTON PORTER RSVR	84.3	67.9	76.1	1.2	95	5	58	13	4	358	6	0	0	0	3.19	-.94	.70	5	.0	0		8	2	0
--DIVISIONAL DATA-->			76.7	1.0											4.24	.24			.0					
SOUTHERN 02																								
DOVER	89.4	68.6	79.0	2.0	99	5	60	2	0	440	13	0	0	0	4.06	-.21	1.97	13	.0	0		7	2	1
GEORGETOWN 5 SW	87.3	66.7	77.0	.9	99	6	56	3	0	380	11	0	0	0	3.86	-.16	1.16	6	.0	0		7	2	1
GREENWOOD 2 NE	87.3	68.4	77.9		98	5	57	3	0	405	9	0	0	0	7.09		2.00	13	.0	0		10	5	3
LEWES	87.2	70.3	78.8	3.6	97	5	59	3	0	432	10	0	0	0	6.12	1.96	.99	13	.0	0		11	6	0
MILFORD 4 SE	87.3	68.7	78.0	1.5	100	5	57	3	0	411	10	0	0	0	7.14	2.76	1.87	13	.0	0		9	4	3
--DIVISIONAL DATA-->			78.1	1.9											5.65	1.42			.0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
JULY 1990

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MARYLAND																																
SOUTHERN EASTERN																																
SHORE 01																																
ASSATEAGUE IS NATL SEA	2.26	.03	.08	T		T			*	.46	.23	.06	.15		T		T		T			.05		.93	T		*	.05	.22			
CRISFIELD SOMERS COVE	3.18										.87	.36	.05	.17														1.48				
PRINCESS ANNE	4.63	.17				.07					.45	.20	.45	.04			.25								1.82			.36	.03	1.04		
SALISBURY	4.88		.21			.25					.49	.12	.52	.15								.02		1.49			.30	.05	1.28			
SALISBURY FAA ARPT	3.06	.11			.22					.84	.11	.39	.01	.06										.35	.21			.37	.20	.19		
SNOW HILL 4 N	3.53	.04	.22			.02					1.11	.15	.21	.07	.14		T					.89	.20		.14			.03	.05	.20		.06
CENTRAL EASTERN																																
SHORE 02																																
CAMBRIDGE WATER TRMT P	5.10		.34			.78					.35	.02	1.20	.13	.04	.20						.88						.02	1.12	.02	T	
ROYAL OAK 2 SSW	4.45	.18	.01			1.42					.15	.06	1.25			.06						.76		T					.53		.03	
VIENNA	2.99	.22	.20			.32			.05		.06	.03	.14			.03				.30			.05	.60	.38			.10		.51		
LOWER SOUTHERN 03																																
LA PLATA 1 W	5.17	.24			1.44	T						.07	.62	.59	T							1.58								.63		
MECHANICSVILLE 5 NE																																
OWINGS FERRY LANDING	3.98	.15			.27	.04				T	.06	.26	.28	.08	.05							.57						T		2.22		
PATUXENT RIVER	4.11	.37	.04			.84		T			.09	1.01	.21	.22	.29	T						T	.29							.75		
TALL TIMBERS	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UPPER SOUTHERN 04																																
ANNAPOLIS POLICE BRKS	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BALTIMORE WSO ARPT	5.68	.02			T				.06	.92	.04	2.35	.27	.62	T				.32		.79	.25		.02	T				.02		T	
BELTSVILLE	4.71	.06	.12								.02	.05	2.42	.03	1.39	.16						.16	.24	.03						.03		
COLLEGE PARK	5.25	.11	.22			.02						.05	2.11	.05	1.22	.22							1.20									.05
DALECARLIA RESVR DC	4.96	.70	.01			.06					.14	1.87	1.22	.39	.18							.23	.16									
GLENN DALE BELL STN	6.01	.07	.09			.04					.07	2.34	.78	1.05	.14	T	.07					.32	.87	.01					.09		.07	
LAUREL 3 W																																
NATIONAL ARBORETUM DC	3.94	.16	.34			.02						.11	1.40	.06	1.55	.01							.21	.01							.07	
UPPER MARLBORO 3 NNW	4.01	.11	.28			.95					.12	.58	.04	1.30	.19								.42									
NORTHERN EASTERN																																
SHORE 05																																
CHESTERTOWN	6.02	.48			.15				.58	1.47	.02	1.62	.33	.05	.05	.04					.17	.09		T					T	.97		T
MILLINGTON 1 SE	6.08	.46	.52			.27				.42	1.39	T	1.83	.03	.19	.23						.26	.08							.40		T
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD.	4.32					.16				.32	.58	T	1.87	*	*	1.20						*	*	.19								
BALTIMORE WSO CITY	3.88										.55	2.37	.28	.33								.05		.30								
BENSON POLICE BARRACKS	4.92					.22	.01			.23	.58	.02	2.01	1.04	.20		T						.12	.29								
BOYDS 2 NW	4.10	.80			.20						.10	1.20	.12	.70	.05						.39	.48	.06									
BRIGHTON DAM	1.81	.02									.05	.07	1.00	.09	.02						.02	.07	.47									
CATOCTIN MOUNTAIN PARK	5.88	.37			.69	.02				.02	.60	.23	1.23	.53	.45	.39						.23	1.07	.05								
CLARKSVILLE 3 NNE	3.92	.06	.12			T					.08	.02	1.77	.31	.21	.11						.48	.04	.72								
CONOWINGO DAM	4.68	.25	.06		.12	.01		.09	.14	.32	.80	1.32	.10	.38	.43							.36	.09	.11	.07							
DAMASCUS 2 SW	3.11	.22			T	.02			T		.06	.38	.86	.70	.22	T						.28	.37									
EMMITSBURG 2 SE	4.65	.05			.30	.48				.58	.42	.18	1.15	.30		.63						.23	.23	.10								
FREDERICK POLICE BRKS																																
FREDERICK 3 E	6.22	.17			.13						.16	.14	2.00	.10	1.95							1.17	.05	.28						.07		
MILLERS 4 NE	3.21	T			.24	.13			.10	.13	.15	.10	.78	.31	.10	.13						.48	.24	.22							1	.10
POTOMAC FILTER PLANT	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROCKVILLE 1 NE	4.65	.10			.06					T	.10	1.89	.54	.75	.46						.02	.45	.28									
TOWSON																																
UNIONVILLE	7.03				.17	.02	.50			.67	1.27	.20	2.20	1.28	.06							.05	.14	.32					.27	.07		
WESTMINSTER POLICE BRK	3.07	.29			.20					.02	.28	.07	1.34	.19	.21	.17						.03	.03	.25						.02		
WOODSTOCK	3.09	.30								.01	.31	.07	.73	.07	.45	.17						.19	.33	.24								
	3.56	.07									.28	.03	1.83	.13	.34	.06						.30	.12	.40								

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
JULY 1990

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
APPALACHIAN MOUNTAIN 07																																	
CUMBERLAND 2	5.47	1.32	T				T				T	.70	.37	1.25	.30	.20	.68					.40	.20	.05									
EDGEMONT	6.24	.17	.03				.60					.47	.44	1.38	.13	.82	.67					.33	1.16	.04									
FROSTBURG 2	7.42	1.65	.04				.13				.12	1.04	.20	1.27	.54	.22	.85					.43	.74	.13	T							.06	
HAGERSTOWN	4.86	*	*	*	*	*	*	*	*	*	.06	.42	.61	1.18	.09	.53	.85					.32	.79	.01									
HANCOCK	3.81	.23										.65	.46	.56	.20	.63	.58					.45		.05									
ALLEGHENY PLATEAU 08																																	
MC HENRY 2 NW	11.16	2.80	.22				1.10				1.17	1.64	.17	1.67	.09	.19	.41					1.03	.28	.21	.02							.16	
MERRILL	8.21	1.60	.20				.90				.46	1.55	.30	1.58	.25	.18	.50					.50	.03	.13								.03	
OAKLAND 1 SE	8.75	2.78	.19			.11	.59				.02	1.19	.34	1.77	.03	.25	T				.14	.36	.50	.40								.08	
SAVAGE RIVER DAM	10.42	2.43	.07				.56				.93	1.02	.17	3.90	.29	.20	.24					.06	.06	.42	T							.07	
DELAWARE																																	
NORTHERN 01																																	
NEWARK UNIVERSITY FARM	5.26					1.95	.06				.32	.29	.02	1.36	.56	.20						.12		.27								.11	
WILMINGTON WSO ARPT R	4.27					2.43	T			.23	.05	.10	.73	.37	.16	.09	T				T	.01		.09	T					.01	T		
WILMINGTON PORTER RSVR	3.19					.70				.34	.08	T	.67	.36	.16	.25						.13		.41						.05		.04	
SOUTHERN 02																																	
DOVER	4.06		.24				.09				.03	.85	T	1.97	.03		.33					.02	.08		.10					.04	.03	.15	
GEORGETOWN 5 SW	3.86		.31	.02			1.16					.40		.25	.02	.38	.03								.88				.03	.06	.30	.02	
GREENWOOD 2 NE	7.09	.10					.20					1.50	.50	2.00	.07		.02				.08	.05	T	.63				.10	.27	1.10		.47	
LENES	6.12	.43	.11				.63				.53	.90	.01	.99	.08					T			.94	.21	.23				.03	.84	.04	.01	.14
MILFORD 4 SE	7.14	T	.15				.47					1.48		1.87	.18									1.47				.04	.78	.34		.36	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL SNOWFALL AND NUMBER OF DAYS
WITH ONE INCH OR MORE ON GROUND

MARYLAND AND
DELAWARE
JULY 1990

STATION	JUL		AUG		SEP		OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		TOTAL		TOTAL PRECIPITATION		
	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD			
MARYLAND																													
SOUTHERN EASTERN SHORE 01																													
ASSATEAGUE IS NATL SEA												M	3.8	-													52.55		
CRISFIELD SOMERS COVE													5.0	-										M	5.0	M	39.89		
SALISBURY FAA ARPT										2.5	3	20.2	21				1.0	1	1.0	0						24.7	25	56.17	
SNOW HILL 4 N										3.0	2	11.3	18				.5	0	1.0	0						15.8	20	59.95	
CENTRAL EASTERN SHORE 02																													
CAMBRIDGE WATER TRMT P										4.0	2	11.5	-														15.5	M	45.93
ROYAL OAK 2 SSW										6.0	2	13.6	23	.7	0	T	0	T	0								20.3	25	51.18
VIENNA												M	1.0	-										M	1.0	M	1.0	M	35.76
LOWER SOUTHERN 03																													
LA PLATA 1 W										5.6	3	14.5	24	.5	0	T	0	.8	-	1.5	0						22.9	27	51.00
MECHANICSVILLE 5 NE										5.5	3	16.6	24		0	T	0	T	0	1.5	0						23.6	27	52.68
OWINGS FERRY LANDING										5.0	3	12.4	22		0	T	0	T	0	1.2	0						18.6	25	49.80
PATUXENT RIVER										6.2	-	18.9	-		-									M	25.1	M			M
UPPER SOUTHERN 04																													
ANNAPOLIS POLICE BRKS										4.0	2	4.5	-											M	8.5	M	8.5	2	37.57
BALTIMORE WSO ARPT										3.8	3	10.2	21	.5	0	T	0	2.7	1		0						17.3	25	42.79
BELTSVILLE										4.0	3	7.2	-		0												11.6	M	42.32
COLLEGE PARK										4.0	-	8.0	-	M	0			2	0								12.2	M	41.51
GLENN DALE BELL STN										5.0	2	11.0	-														16.0	M	42.30
LAUREL 3 W										5.5	-	M	0	-	M	0				T	0						5.5	M	40.79
NATIONAL ARBORETUM DC												M	4.5	5				.3	-					M	4.8	M	4.8	5	40.77
NORTHERN EASTERN SHORE 05																													
CHESTERTOWN										5.2	3	11.0	23	.5	1	T	0	3.8	0	.5	0						21.0	27	45.34
MILLINGTON 1 SE										3.5	-	12.5	-	.3	0	T	0										16.3	M	47.89
NORTHERN CENTRAL 06																													
ABERDEEN PHILLIPS FLD										T	0	M	5.7	-		T	0		0								5.7	M	45.57
BENSON POLICE BARRACKS										4.0	1	7.3	22		3	T	0		.5	1							15.3	27	52.51
BOYDS 2 NW										4.0	2	9.0	23		3			M	2.5	-	2	M					19.3	29	33.90
CATOCTIN MOUNTAIN PARK										M	0	3	8.5	24		11.0	8	M	8.0	-	3	0					30.5	M	38.38
CLARKSVILLE 3 NNE										3.5	1	11.7	24		2	T	0	6.1	1	.5	0						23.4	28	41.74
CONOWINGO DAM										5.3	-			M	0			0	0								5.3	M	50.09
DAMASCUS 2 SW										5.8	3	11.6	24		2	T	0	10.4	2	4.4	0	M	.0	0			38.2	31	37.13
EMMITSBURG 2 SE										3.0	2	9.0	24		3	.5	0	4.0	1	1.0	0						24.5	30	38.83
FREDERICK POLICE BRKS										4.0	2	M	0	15		1.0	1		1								6.0	0	30.79
FREDERICK 3 E										M	0	-	8.0	-		3.0	-		0	4.0	-						16.0	M	34.18
MILLERS 4 NE										3.1	2	9.2	24		4	2.2	2	4.6	1	3.3	0						33.8	33	41.39
POTOMAC FILTER PLANT										M	0	1	5.5	-		1.0	-			0							6.5	M	27.40
ROCKVILLE 1 NE										3.5	3	10.4	24		1	T	0	4.5	1	2.0	0						21.1	29	39.58
TOWSON												7.5	-					0	-								7.5	M	65.10
UNIONVILLE										4.0	-	5.6	24		2			4.5	2	.5	0						18.6	M	35.65
WESTMINSTER POLICE BRK										4.0	2	7.5	21		3	0	2	M	1.0	1							15.5	26	35.32
WOODSTOCK										4.0	3	10.5	24		1	1.0	0	4.5	1	2.0	0						24.0	29	45.27

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL SNOWFALL AND NUMBER OF DAYS
WITH ONE INCH OR MORE ON GROUND

MARYLAND AND
DELAWARE
JULY 1990

STATION	JUL		AUG		SEP		OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		TOTAL		TOTAL PRECIPITATION
	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	SNOWFALL	1 IN ON GD	
APPALACHIAN MOUNTAIN 07																											
CUMBERLAND 2									3.0	4	9.0	-					4.0	3							16.0	7	29.06
EDGEMONT													5.0	-			0.0	-							5.0	0	28.62
FROSTBURG 2					T	0	.1	0	11.2	6	33.5	27	25.3	20	7.0	7	7.0	4	5.4	1	T	0			89.5	65	43.18
HAGERSTOWN									3.0	3	5.6	21	4.8	3			2.0	-	.3	0					15.7	27	28.37
HANCOCK													5.0	-			0.0	-							5.0	0	30.34
ALLEGHENY PLATEAU 08																											
MC HENRY 2 NW							T	0	11.5	8	34.0	29	25.5	16	10.5	9	8.5	10	10.0	7	T	0			100.0	79	47.83
MERRILL									4.0	5	22.2	22	15.2	14	4.1	3	6.0	3	2.0	1					53.5	48	36.12
OAKLAND 1 SE							1.0	0	5.5	-	32.3	-	20.6	-	8.8	-	7.0	-	13.6	-	T	0			88.8	0	41.92
SAVAGE RIVER DAM									4.5	4	10.5	24	16.5	15	T	0	0.0	-	0.0	0					31.5	43	33.66
DELAWARE																											
NORTHERN 01																											
NEWARK UNIVERSITY FARM									M	0	4.0	22													4.0	24	55.81
WILMINGTON WSO ARPT									5.6	3	8.9	15	1.5	0	1.0	0	1.3	0	1.6	0					19.9	18	47.54
WILMINGTON PORTER RSVR									4.5	-	4.5	-	.6	1	1.0	0	2.0	0							12.6	1	56.90
SOUTHERN 02																											
DOVER									5.9	3	12.9	24	.2	0	0.0	-			0.0	-					19.0	27	50.86
GEORGETOWN 5 SW									M	0	14.5	15					.3	-	.5	-					15.3	18	57.55
GREENWOOD 2 NE											10.7	23	.2	0	T	0	1.5	1	1.1	0					13.5	24	36.28
LEWES									5.9	1	10.3	-					1.5	-							17.7	1	54.82
MILFORD 4 SE									6.0	3	10.3	20			M	0	1.5	1	0.0	-					17.8	24	49.27

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JULY 1990

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
MARYLAND																																		
SOUTHERN EASTERN SHORE	01																																	
ASSATEAGUE IS NATL SEA	17	MAX OBS MIN OBS	89 69 55 59	87 55 59	73 59	76 67	86 73	94 69	75 69	75 68	88 69	87 69	80 70	87 72	75 68	78 69	76 69	79 71	82 69	79 72	80 70	84 68	86 73	86 67	84 69	83 69	77 68	79 69	77 69	78 66	75 67	76 70	79 67	81.0 68.4
CRISFIELD SOMERS COVE	17	MAX OBS MIN OBS	89 74 68 62	86 68 62	82 62	87 75	91 75	86 76	87 68	80 71	90 77	91 79	89 72	91 72	86 73	86 71	86 71	84 76	84 75	84 75	85 78	87 78	89 79	88 75	91 73	84 72	91 72	89 70	82 75	88 71	87 71	83 70	83 74	86.7 73.1
PRINCESS ANNE	17	MAX MIN	89 65	80 61	85 55	91 65	96 75	96 70	86 68	90 74	94 63	95 73	94 69	90 68	91 66	88 73	89 76	88 68	87 66	90 65	91 69	92 69	95 72	94 68	93 70	93 67	88 63	86 60	85 70	82 67	84 68	85 66	87 65	89.5 67.5
SALISBURY	17	MAX MIN	92 70	88 62	85 59	90 67	96 76	92 70	86 65	81 65	93 72	95 76	89 68	89 68	90 66	88 67	87 74	87 70	89 72	89 68	91 68	91 71	94 76	93 70	93 74	88 66	94 67	87 66	84 71	81 69	83 69	84 68	87 64	88.9 69.0
SALISBURY FAA ARPT	MID	MAX MIN	91 65	81 62	86 57	91 67	96 71	86 69	79 67	80 66	94 74	95 72	88 70	90 70	76 68	87 70	88 75	87 72	87 67	90 67	92 71	90 69	94 72	92 68	94 73	85 69	88 65	85 66	85 71	81 70	84 72	85 69	88 66	87.6 68.8
SNOW HILL 4 N	18	MAX MIN	90 69	84 60	84 64	91 65	97 75	95 70	84 63	81 64	94 74	95 73	91 70	90 70	90 69	87 70	87 75	89 70	89 70	90 65	91 71	90 67	93 72	91 69	91 74	89 69	87 65	86 62	86 72	79 69	84 70	84 69	86 65	88.5 68.7
CENTRAL EASTERN SHORE	02																																	
CAMBRIDGE WATER TRMT P	16	MAX MIN	94 72	82 65	88 62	95 70	99 75	95 71	86 68	83 67	97 75	95 75	94 72	90 69	89 64	88 67	88 71	86 69	87 70	90 67	92 73	93 70	92 74	93 70	92 75	89 71	89 68	87 71	87 72	85 70	83 70	83 71	89 70	89.7 70.1
ROYAL OAK 2 SSW	18	MAX MIN	89 66	81 65	86 64	90 73	96 77	87 71	81 66	83 66	94 75	92 73	86 71	91 68	75 63	83 67	87 74	86 68	89 67	89 66	92 75	91 74	93 72	89 69	92 77	86 71	88 64	89 66	87 69	87 68	85 69	85 67	89 67	87.7 69.3
VIENNA	18	MAX MIN	94 67	90 59	92 59	93 67	01 72	97 67	94 67	82 62	96 70	96 72	94 67	90 65	90 61	88 63	87 71	89 65	91 67	91 64	92 70	92 67	95 68	94 67	95 67	87 63	92 62	88 62	86 65	85 65	85 66	86 61	90 64	91.0 65.5
LOWER SOUTHERN	03																																	
LA PLATA 1 W	18	MAX MIN	84 67	77 61	83 61	90 69	94 73	84 69	82 68	81 66	92 72	90 70	87 71	87 67	79 62	84 64	83 72	83 66	83 66	85 67	86 71	88 69	88 66	85 69	86 73	82 65	84 62	84 65	81 67	81 68	80 68	81 67	85 69	84.5 67.4
MECHANICSVILLE 5 NE	19	MAX MIN	87 66	79 61	86 58	90 66	95 72	85 70	78 66	82 65	94 73	92 71	84 70	89 68	77 64	86 72	83 65	85 65	87 65	88 71	90 69	91 72	88 68	89 73	82 70	87 63	87 64	82 65	84 68	80 70	81 65	87 67	85.7 67.5	
OWINGS FERRY LANDING	17	MAX MIN	89 64	80 61	85 62	90 64	95 70	91 69	83 66	81 65	93 73	92 71	90 68	88 68	90 63	84 65	82 72	83 64	84 65	87 66	88 71	89 68	90 70	87 68	89 73	84 67	86 63	86 64	86 68	82 67	83 69	81 66	87 67	86.6 67.1
PATUXENT RIVER	MID	MAX MIN																																M M M
TALL TIMBERS	17	MAX MIN																																M M M
UPPER SOUTHERN	04																																	
ANNAPOLIS POLICE BRKS	17	MAX MIN																																M M
BALTIMORE WSO ARPT	MID	MAX MIN	89 70	83 65	90 64	98 66	100 74	89 70	81 68	84 69	101 73	95 74	77 70	89 65	66 62	83 66	87 71	85 66	88 66	90 67	96 72	92 71	89 70	89 73	89 70	84 66	88 71	85 71	86 70	84 68	80 68	81 67	88 71	87.6 69.1
BELTSVILLE	08	MAX OBS MIN	94 68 61	91 61	85 59	91 65	96 76	101 67	91 66	80 65	84 72	100 73	96 68	83 67	91 61	68 61	80 66	86 65	86 65	86 65	92 70	93 67	93 68	90 68	89 70	90 65	84 63	89 66	89 67	84 66	84 68	84 66	83 64	88.2 66.4
COLLEGE PARK	09	MAX MIN	94 70	90 63	83 60	91 71	98 80	100 72	94 69	80 69	86 74	100 77	97 72	84 69	92 61	70 62	79 70	85 64	85 67	88 68	92 72	93 70	94 70	90 69	89 72	89 64	84 66	88 69	87 70	88 71	86 70	86 68	85 72	88.6 69.1
DALECARLIA RESVR DC	17	MAX MIN	92 58	83 55	91 55	96 63	99 67	89 63	88 62	86 60	98 68	97 69	95 65	91 62	89 54	83 56	84 67	87 56	87 61	90 61	92 64	94 67	92 63	90 71	88 69	88 58	87 67	89 60	86 61	85 61	88 63	87 62	88 65	89.6 62.4

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JULY 1990

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
GLENN DALE BELL STN	16	MAX MIN	90 68	90 57	87 60	92 63	97 73	97 65	86 62	83 63	95 72	95 71	94 67	87 66	91 59	79 62	83 71	84 62	87 63	89 64	91 68	90 66	92 74	92 66	92 66	89 63	87 60	87 61	88 62	86 64	82 68	82 64	87 67	88.7 65.1
LAUREL 3 W	MID	MAX MIN																																M M
NATIONAL ARBORETUM DC	08	MAX OBS MIN	94 68	90 64	84 61	90 66	96 72	100 71	92 69	81 67	86 69	99 75	96 70	87 68	92 63	70 62	81 70	86 66	86 67	88 68	92 70	92 72	94 70	93 70	90 71	92 68	85 65	89 66	90 70	85 69	86 70	83 69	84 70	88.8 68.3
UPPER MARLBORO 3 NNW	08	MAX MIN	92 64	88 56	81 56	92 61	93 68	97 65	87 62	79 62	82 65	95 69	93 66	84 64	89 58	77 58	82 66	84 60	84 60	85 61	89 67	89 66	91 64	92 65	89 68	91 61	85 59	88 59	88 63	84 62	88 64	82 61	83 64	87.2 62.7
NORTHERN EASTERN SHORE	05																																	
CHESTERTOWN	23	MAX MIN	89 66	83 62	89 63	93 70	98 72	90 66	82 62	84 66	95 72	92 70	77 67	89 64	67 62	86 62	87 72	85 69	88 65	91 67	92 72	91 70	91 68	91 68	91 68	86 66	89 66	90 65	86 67	86 66	79 68	85 65	88 67	87.4 67.0
MILLINGTON 1 SE	18	MAX OBS MIN OBS	89 67	81 61	86 60	90 68	96 75	88 66	85 64	82 66	94 73	92 71	88 68	85 66	85 60	83 63	85 64	84 66	85 64	88 66	90 71	89 69	89 69	88 69	91 73	90 69	88 64	89 64	84 67	85 67	81 70	83 66	87 66	87.1 66.8
NORTHERN CENTRAL	06																																	
ABERDEEN PHILLIPS FLD	16	MAX MIN		79 64	86 65		97 78	94 67			94 77	94 72	87 68	83 65	83 60			83 67	86 64	88 66	90 74	91 70			89 72	89 68	87 69	88 70	87 67			81 65	86 68	M
BALTIMORE WSO CITY	MID	MAX MIN	92 71	84 66	94 70	101 73	104 79	90 75	83 70	84 74	104 78	92 78	78 71	90 65	67 61	82 64	88 76	88 73	90 74	91 76	96 76	96 77	94 76	93 73	95 76	87 71	92 73	92 75	86 74	86 73	87 73	93 73	89.8 72.8	
BENSON POLICE BARRACKS	17	MAX MIN	92 69	84 59	85 60	97 67	99 75	96 63	96 60	84 64	100 71	100 68	91 62	86 62	84 56	80 57	85 69	87 62	90 63	93 68	93 68	90 65	93 65	93 67	91 63	90 64	90 64	92 64	89 64	87 65	87 63	84 63	88 63	89.7 64.3
BOYDS 2 NW	18	MAX MIN OBS	86 65	80 59	85 59	93 64	94 77	87 64	80 62	80 64	95 71	90 73	80 69	84 65	73 58	78 62	80 71	82 63	85 67	87 67	87 69	87 68	85 67	84 66	85 69	81 62	85 63	85 65	84 63	83 65	83 68	84 70	84.4 66.2	
CATOCTIN MOUNTAIN PARK	17	MAX MIN	79 62	80 56	80 62	90 66	90 69	80 64	76 58	76 62	90 69	86 71	73 60	74 60	72 55	69 57	76 67	79 61	82 66	83 67	82 68	80 65	80 66	78 67	79 66	79 60	79 63	81 64	77 63	78 64	79 65	79 66	79.3 63.9	
CLARKSVILLE 3 NNE	17	MAX MIN OBS	91 70	81 59	89 55	97 61	99 76	93 64	88 64	84 63	99 73	99 70	95 67	87 66	87 60	82 61	85 72	86 62	89 63	93 63	93 65	93 64	89 68	89 69	85 63	87 59	86 61	85 63	85 63	84 63	83 65	85 64	89.1 64.7	
CONOWINGO DAM	MID	MAX OBS MIN OBS	90 61 36	95 69	95 63	99 62	105 69	92 62	81 62	84 67	99 71	93 69	78 63	85 59	71 58	80 59	87 69	87 62	90 65	94 67	94 67	94 69	91 66	94 50	88 53	94 50	93 66	89 66	88 63	85 66	88 64	85 69	88 64	89.6 64.9
DAMASCUS 2 SW	19	MAX MIN	84 66	79 57	86 59	93 64	95 78	87 66	79 63	82 63	96 72	92 73	88 68	85 64	70 58	75 60	80 71	83 62	87 66	89 67	88 68	88 67	84 66	85 68	82 69	85 61	85 63	85 64	84 67	82 66	83 66	84 70	85 67	84.8 65.8
EMMITSBURG 2 SE	17	MAX OBS MIN OBS	84 70	81 59	85 57	96 61	95 70	84 62	84 62	81 66	96 72	90 73	79 64	75 64	73 59	69 61	82 61	82 64	85 62	87 62	88 65	87 65	87 65	83 67	85 69	82 62	83 59	81 62	85 63	84 66	83 66	83 70	83 66	83.9 64.3
FREDERICK POLICE BRKS	17	MAX MIN	92 67	81 63	89 60	100 65	100 81	96 68	89 64	83 66	101 72	102 76	96 68	89 65	76 59	76 58	81 68	85 67	89 68	90 68	97 71	92 70	90 67	86 63	88 70	85 66	86 64	87 65	88 68	88 70	85 68	85 70	88 72	89.0 67.3
MILLERS 4 NE	18	MAX MIN	83 67	78 59	84 60	94 64	92 70	84 63	82 61	78 65	93 71	87 70	75 61	79 62	73 57	77 60	81 72	80 63	85 65	87 64	88 67	86 66	85 66	83 67	85 69	80 63	82 61	83 64	83 65	83 65	81 64	82 69	83.1 64.7	
ROCKVILLE 1 NE	MID	MAX MIN	84 67	81 61	84 62	91 67	92 72	85 68	72 61	77 63	95 74	90 74	79 67	85 65	65 59	76 63	84 70	81 66	85 65	87 66	87 69	89 69	84 65	86 69	83 70	82 65	84 66	85 68	83 68	81 67	81 68	81 67	82 68	83.3 66.9
TOWSON	18	MAX MIN	88 70	82 61	85 65	93 67	95 79	86 67	86 65	81 68	95 73	94 68	86 66	87 64	81 59	79 61	83 72	85 64	86 61	87 68	90 70	89 69	88 68	87 68	87 71	85 65	86 66	86 66	83 68	83 68	82 67	87 70	86.5 67.2	
UNIONVILLE	17	MAX MIN	84 66	82 56	86 53	94 58	94 72	87 62	85 62	81 64	95 70	91 70	85 66	83 65	77 59	80 61	82 72	83 62	87 63	90 62	90 65	88 65	87 65	85 68	87 69	83 59	86 58	86 58	87 62	86 64	85 63	85 64	85 69	86.0 63.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX</

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JULY 1990

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
WESTMINSTER POLICE BRK	17	MAX MIN	86 61	81 56	87 57	95 66	96 79	94 64	87 61	82 64	97 68	96 70	92 62	84 60	84 56	76 57	83 70	81 64	88 64	90 64	91 67	91 69	91 67	87 65	87 71	85 60	85 60	86 54	85 65	85 65	84 64	85 64	85 60	87.3 63.7
WOODSTOCK	18	MAX OBS MIN OBS	87 69	83 61	88 58	95 65	97 78	87 66	87 64	81 71	96 72	93 72	90 68	87 65	82 60	79 61	84 72	84 63	87 64	92 64	91 67	90 66	88 66	88 69	88 70	85 63	88 63	89 64	89 66	85 67	84 68	85 65	85 74	87.5 66.5
APPALACHIAN MOUNTAIN	07																																	
CUMBERLAND 2	18	MAX MIN	86 58	84 55	87 56	95 63	92 65	87 63	82 62	89 63	97 68	93 68	90 65	75 59	68 57	71 62	83 58	83 59	88 62	90 63	89 65	89 66	86 68	83 69	81 59	84 58	85 59	87 58	88 60	86 62	85 64	88 64	84 55	85.6 61.7
FROSTBURG 2	07	MAX MIN	83 62	74 54	75 53	80 54	86 68	82 62	77 55	70 55	82 60	87 68	83 64	68 61	73 55	65 54	77 56	84 56	84 57	87 57	90 60	90 60	89 64	86 65	85 65	86 58	84 57	86 57	85 57	80 60	78 60	78 61	79 61	77.4 59.2
HAGERSTOWN	08	MAX MIN										99 72	93 68	71 59	73 57	65 58	77 63	84 64	84 65	87 65	90 68	90 68	89 64	86 67	85 68	86 61	86 62	85 62	86 64	88 56	86 60	85 62	88 69	M 71
HANCOCK	08	MAX MIN	88 64	85 55	83 57	90 59	99 72	95 62	88 60	80 62	85 64	100 69	93 69	71 64	75 60	63 60	78 61	82 60	84 60	88 61	90 62	89 64	87 65	87 69	86 69	86 60	82 58	85 58	86 57	88 56	86 60	85 62	88 69	85.5 62.2
ALLEGHENY PLATEAU	08																																	
MC HENRY 2 NW	08	MAX MIN	79 59	72 51	76 54	81 58	85 67	79 61	76 53	74 53	84 62	87 65	81 63	74 62	70 53	58 54	67 56	75 55	83 60	83 59	81 62	76 63	80 64	67 56	76 57	79 58	81 58	82 60	79 58	81 60	83 61	83 61	77.7 58.7	
OAKLAND 1 SE	17	MAX MIN	77 58	73 49	79 46	84 57	79 70	76 62	70 49	83 56	87 58	86 68	82 64	73 64	73 55	76 55	67 63	75 54	81 63	81 54	82 52	82 65	80 63	79 65	77 54	75 54	76 51	77 49	80 49	79 56	78 52	82 61	81 61	78.4 56.8
SAVAGE RIVER DAM	08	MAX MIN	83 62	75 53	77 52	86 54	87 67	82 63	79 53	73 55	85 60	89 61	85 66	80 63	75 57	60 58	70 57	71 58	77 55	85 61	86 60	86 61	84 61	81 66	82 66	74 57	80 55	81 54	82 52	83 56	81 57	80 59	86 60	80.4 58.4
DELAWARE																																		
NORTHERN	01																																	
NEWARK UNIVERSITY FARM	17	MAX MIN	89 70	82 62	87 60	94 67	96 68	86 64	86 63	82 65	95 72	92 70	84 65	80 65	78 58	78 62	88 73	83 68	89 64	90 66	90 70	91 69	89 68	87 69	90 70	89 66	87 66	88 61	85 67	84 66	85 65	84 65	87 65	86.9 66.2
WILMINGTON WSO ARPT	MID	MAX MIN	87 66	83 63	87 63	94 69	98 72	88 68	80 65	80 67	95 73	89 73	76 66	81 63	65 60	79 64	87 76	84 69	86 67	89 68	92 73	91 73	89 70	88 73	92 74	87 69	89 68	89 71	85 70	84 72	85 69	86 68	86.1 68.7	
WILMINGTON PORTER RSVR	MID	MAX MIN	86 68	80 64	86 64	92 73	95 72	86 67	79 64	79 63	93 72	86 72	75 66	78 61	64 58	75 64	85 74	88 68	85 68	88 70	90 72	90 66	88 69	87 71	90 73	84 68	87 68	86 69	86 69	81 68	83 70	84 67	83 68	84.3 67.9
SOUTHERN	02																																	
DOVER	17	MAX MIN	88 69	86 60	87 63	94 71	99 73	93 66	84 67	86 70	98 72	95 73	89 71	87 65	84 64	80 66	84 66	90 66	87 71	93 71	93 71	94 71	94 74	92 70	94 74	88 67	89 67	90 66	84 69	89 69	88 70	87 67	86 67	89.4 68.6
GEORGETOWN 5 SW	08	MAX MIN OBS	95 62	89 61	78 56	88 60	90 72	99 66	82 64	84 63	80 66	94 73	93 70	85 68	88 65	81 65	86 67	86 69	85 65	91 65	90 68	89 69	92 70	90 69	94 67	84 65	86 64	83 71	87 74	83 67	81 70	83 66	87.3 66.7	
GREENWOOD 2 NE	18	MAX OBS MIN	87 68	90 61	87 57	93 69	98 75	88 70	78 65	81 64	96 72	92 71	82 67	89 67	85 63	88 66	87 74	84 68	87 69	89 68	91 73	90 69	92 70	89 69	92 73	84 68	88 72	88 64	82 72	79 70	80 70	84 70	87 67	87.3 68.4
LEWES	17	MAX MIN OBS	89 69	82 67	86 59	93 72	97 77	92 71	79 67	79 69	94 68	95 73	95 71	90 69	85 65	87 68	85 75	86 71	89 71	89 70	91 73	91 71	89 75	93 69	81 69	86 68	85 69	81 72	81 70	80 72	80 73	85 68	87.2 70.3	
MILFORD 4 SE	17	MAX MIN	91 69	80 63	88 57	94 69	100 76	94 70	78 67	80 66	96 73	95 73	84 71	90 68	88 64	85 66	87 74	86 70	85 67	86 67	89 71	91 69	92 69	85 69	93 74	84 67	87 66	87 65	82 72	82 70	80 72	82 71	85 66	87.3 68.7

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL HEATING DEGREE DAYS

MARYLAND AND
DELAWARE
JULY 1990

STATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	SEASONAL NORM
MARYLAND														
SOUTHERN EASTERN SHORE 01														
ASSATEAGUE IS NATL SEA	0	0	31	170	426 B	1113 B	720	586	585	399	125	30	B 4185	
CRISFIELD SOMERS COVE	0	0	16	125	424	1045	666	531	474	268		3	M 3552	3902
PRINCESS ANNE		0			496					317	92	5	M 910	4298
SALISBURY		2	30			1117	625	538	498	310	71	4	M 3195	4016
SALISBURY FAA ARPT	0	0	44	196	540	1149	664	572	534	348	123	6	M 4176	4411
SNOW HILL 4 N	0	0	36	192	510	1088	644	532	508	322	90	8	M 3930	4239
CENTRAL EASTERN SHORE 02														
CAMBRIDGE WATER TRMT P	0	0	34	153	478	1120	661	536	490	276	61	3	M 3812	4331
ROYAL OAK 2 SSW	0	0	35	174	480	1153	679	550	506	303	82	4	M 3966	4192
VIENNA	0		44	160	525	1194	709		511		74	6	M 3223	4140
LOWER SOUTHERN 03														
LA PLATA 1 W	0	5	52	221	505	1160	658	520	468	294	116	8	M 4007	4384
MECHANICSVILLE 5 NE	0	4	62	241	540	1195	673	538	493	318	110	7	M 4181	
OWINGS FERRY LANDING	0	2	47	199	533	1197	681	542	500	318	101	2	M 4122	4384
PATUXENT RIVER	0	0	33	155	487	1105						4	M 1784	
TALL TIMBERS														
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	0	0	50	247	578	1228	755				116	12	M 2986	
BALTIMORE WSO ARPT	0	0	51	229	600	1221	707	631	552	341	102	5	M 4439	4706
BELTSVILLE	0	2	59	250	580	1266	765	667	565	365	138	15	M 4672	5053
COLLEGE PARK	0	0	48	220	548	1212	722	598	521	333	111	10	M 4323	4455
DALECARLIA RESVR DC	0	8	65	272	621	1262	769	627	537	357	138	11	M 4667	4425
GLENN DALE BELL STN	0	4 B	47	234	557	1204	719	576	543	356	127	16	B 4383	4649
LAUREL 3 W	1		31	197	546	1196	685	619		322		6	M 3603	4489
NATIONAL ARBORETUM DC	0	6	87	321		1182	710	593 B	538	333	96	4	M 3870	4267
UPPER MARLBORO 3 NNW	0	5	75	283				667	587	407	164	23	M 2211	
NORTHERN EASTERN SHORE 05														
CHESTERTOWN	0	0	44	221	574	1232	734	637	568	343	116	6	M 4475	4600
MILLINGTON 1 SE	0	1 B	42	216	542	1232	721	589	556	347	111	8	B 4365	4837
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FLD	0	1	33	148	479	1127	585	614 B	549 B	337 B	125 B	9	M 1635	
BALTIMORE WSO CITY	0	0	49	218	587	1248	776	519	473	238	63	2	M 3667	4083
BENSON POLICE BARRACKS	0	2	67	224	594	1259	706	642	562	346	41		M 4471	4998
BOYDS 2 NW	0	5	67	224	594	1259	706	599	542	331	126	10	M 4463	
CATOCTIN MOUNTAIN PARK	0	17	110	291	694	1345	828	716	635	437	225	25	M 5323	
CLARKSVILLE 3 NNE	0	9	66	269	596	1270	730	630	559	357	130	17	M 4633	
CONOWINGO DAM	0	0	50	271	649	1270	854	727	643	407	123	5	M 4999	5206
DAMASCUS 2 SW	0	11	70	243	609	1274	720	641	566	353	161	12	M 4660	
EMMITSBURG 2 SE	1	12	81	289	636	1316	787	685	593	387	164	14	M 4965	
FREDERICK POLICE BRKS	0	0	47	218	552	1209	704	597	509	316	94	7	M 4253	
MILLERS 4 NE	1	13	83	262	641	1298	775	682	603	383	175	14	M 4930	
ROCKVILLE 1 NE	0	3	56	232	579	1234	717	633	565	341	138	9	M 4507	4663
TOWSON	0	3	56	222	579	1221	758	620	542	327	115	7	M 4450	
UNIONVILLE	0	14	85	297	647	1341	799	703	619	418	170	22	M 5115	5415
WESTMINSTER POLICE BRK	2	10	81	301	659	1300	754	638	562	355	149	12	M 4823	5250
WOODSTOCK	0	5	58	246	592	1249	720	627	547	337	100	9	M 4490	5027
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	0	10	85	295	671	1253		668	578	358	181	12	M 4111	5106
FROSTBURG 2	18	55	169	433	795	1458	924	834	784	541	329	85	M 6425	
HAGERSTOWN		5	89	290	654	1304	797	724	617	405	167	23	M 5075	5086
HANCOCK	0	10	109	321	665	1304	827	742	633	430	198	30	M 5269	5573

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL HEATING DEGREE DAYS

MARYLAND AND
DELAWARE
JULY 1990

STATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	SEASONAL NORM
ALLEGHENY PLATEAU 08														
MC HENRY 2 NW	11	45	169	435	823	1470	968	826	779	545	352	92	6515	
OAKLAND 1 SE	11	39	156	443	772	1437	881	747	718	517	312	69	6102	6599
SAVAGE RIVER DAM	3	37	134	414	775	1393	913	809	725	490	267	64	6024	6335
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM	0	2	53	236	591	1234	757	626	575	367	110	8	4559	4906
WILMINGTON WSO ARPT	0	2	54	236	605	1231	749	661	593	368	127	6	4632	4986
WILMINGTON PORTER RSVR	0	1	56	211	612	1243	761	664	602	380	131	8	4669	5127
SOUTHERN 02														
DOVER	0	0	34	202	508	1155	691	553	548	346	113	13	4163	4356
GEORGETOWN 5 SW	0	1	59	223	537	1208	676	625	563	387	126	6	4411	4571
GREENWOOD 2 NE	0	0	55	223		1208	671	594	565	368		9	3693	
LEWES	0	0	30	178	464	1104	623	528	519	317	75	3	3841	4505
MILFORD 4 SE	0	0	42	214	524	1179	668	558	543	341	102	8	4179	4457

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

MARYLAND AND
DELAWARE
JULY 1990

STATION		DAY OF MONTH																															DELAWARE JULY 1990	TOTAL OR AVG
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MARYLAND																																		
UPPER SOUTHERN 04																																		
BELTSVILLE	WIND	54	48	34	36	52	46	44	28	58	38	32	28	40	24	18	30	12	16	16	18	24	20	12	70	39	32	37	26	31	25	22	1010	
	EVAP	36	22	28	32	36	29	34	16	19	32	26	20	20	-	21	19	21	18	24	29	26	19	22	28	24	30	30	18	15	15	20	7.53B	
	MAX	97	97	90	95	96	99	99	93	86	102	99	90	94	66	80	88	89	91	98	100	100	94	95	95	91	96	94	91	89	90	93	92.8	
	MIN	70	63	63	66	71	71	65	68	70	75	73	70	63	63	66	71	71	71	71	73	76	74	75	68	67	69	68	69	72	71	71	69.5	
UPPER MARLBORO 3 NNW																																		
	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	EVAP	-	26	26	23	33	27	28	16	19	24	24	16	18	21	17	20	12	16	20	22	22	19	16	27	11	34	23	12	15	2	18	6.08B	
	MAX	98	80	84	96	80	100	74	74	81	102	100	88	96	68	74	75	74	89	76	-	90	96	96	79	92	93	92	86	88	71	94	86.2	
	MIN	70	64	63	66	65	72	66	64	69	72	73	68	65	64	64	70	70	70	71	-	74	72	71	78	68	67	68	68	68	68	69	68.6	
DELAWARE																																		
NORTHERN 01																																		
NEWARK UNIVERSITY FARM	WIND	27	23	22	28	35	22	38	25	34	22	28	56	73	79	43	43	19	18	20	23	37	17	27	37	23	25	26	49	62	13	20	1014	
	EVAP	35	20	15	36	-	-	25	22	19	24	16	13	-	8	9	18	22	37	13	34	19	23	14	27	26	17	23	17	26	4	14	6.38B	
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
SOUTHERN 02																																		
GEORGETOWN 5 SW	WIND	59	109	40	153	82	95	25	83	74	82	50	48	82	64	68	57	90	28	45	50	76	44	48	81	39	44	93	72	73	38	33	2025	
	EVAP	36	40	25	44	34	-	20	24	27	21	31	20	21	4	14	23	33	21	33	20	56	35	30	-	42	37	15	13	15	38	18	8.24B	
	MAX	94	83	82	86	89	102	90	89	78	99	102	91	78	86	94	95	96	98	100	95	94	101	99	100	96	97	93	93	89	90	92	92.6	
	MIN	69	63	65	65	66	68	69	68	65	71	70	70	70	66	70	70	70	68	72	72	78	67	70	71	70	69	71	71	69	71	71	69.2	
EVAPORATION: IS MEASURED IN HUNDRETHS OF INCHES																																		

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
JULY 1990

STATION		DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MARYLAND																																
DELAWARE																																
NORTHERN	01																															
WILMINGTON WSO ARPT	RSNOWFALL 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
JULY 1990

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER
							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
MARYLAND ABERDEEN PHILLIPS FLD 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 14 120 365 581	16 17 17 MID MID 08 17 18	16 17 07 MID MID 08 17 18	C H H C C H H	H H J H H H H	ROSS AVIATION INC ANNAPOLIS POLICE BRKS NATIONAL PARK SERVICE NATL WEATHER SERVICE OCMI COMMANDING OFFICER US DEPT OF AGRICULTURE MARYLAND STATE POLICE HUNTER F STALEY
BRIGHTON DAM CAMBRIDGE WATER TRMT P CATOCTIN MOUNTAIN PARK CHESTERTOWN CLARKSVILLE 3 NNE COLLEGE PARK CONOWINGO DAM CRISFIELD SOMERS COVE CUMBERLAND 2	112506 138502 153006 175005 186206 199504 206006 221501 228207		MONTGOMERY DORCHESTER FREDERICK KENT HOWARD PRINCE GEORG HARFORD SOMERSET ALLEGANY	39 12 38 34 39 39 39 13 39 15 38 59 39 39 37 59 39 38	77 1W 76 4W 77 29W 76 4W 76 56W 76 57W 76 10W 75 52W 78 45W	331 10 1610 39 365 90 39 8 730	MID 16 17 23 17 09 MID 17 07	16 16 17 23 17 09 MID 17 07	C H C H H C H H H	H H H H H H H H H	WASH SUB SANY COMM WASTEWATER TRMT PLANT CATOCTIN MOUNTAIN PARK THOMAS W ELIASON JR UNIVERSITY OF MARYLAND UNIVERSITY OF MARYLAND SUSQUEHANNA ELECTRIC CO SOMERS COVE MARINA TIMOTHY B THOMAS
DALECARLIA RESVR DC DAMASCUS 2 SW DENTON 2 E EDGEMONT EMMITTSBURG 2 SE FREDERICK POLICE BRKS FREDERICK 3 E FROSTBURG 2 GLENN DALE BELL STN	232504 233506 252302 277007 290606 334806 335506 341507 367504		DIS COLUMBIA MONTGOMERY CAROLINE WASHINGTON FREDERICK FREDERICK FREDERICK ALLEGANY PRINCE GEORG	38 56 39 16 38 53 39 40 39 41 39 25 39 24 39 40 38 58	77 7W 77 14W 75 48W 77 33W 77 18W 77 26W 77 22W 78 56W 76 48W	151 722 49 905 420 381 385 2172 151	17 19 17 07 17 17 07 07 16	17 19 17 07 17 07 07 07 16	H H H H H H H H H	H H H H H H H H H	U S CORPS OF ENGINEERS RICHARD W SCHWERT INACTIVE 04/01/90 JOHN W HARNE MRS LUCILLE K BEALE MARYLAND STATE POLICE MISS I MARY STALEY LEE K CLOSE USDA PLT INTRODUCT STN
HAGERSTOWN HANCOCK LA PLATA 1 W LAUREL 3 W MC HENRY 2 NW MECHANICSVILLE 5 NE MERRILL MILLERS 4 NE MILLINGTON 1 SE	397507 403007 508003 511104 583208 586503 589408 593406 598505		WASHINGTON WASHINGTON CHARLES PRINCE GEORG GARRETT ST MARYS GARRETT CARROLL KENT	39 39 39 42 38 32 39 16 39 35 38 27 39 36 39 43 39 16	77 44W 78 11W 77 0W 76 54W 79 22W 76 41W 79 5W 76 48W 75 52W	659 428 140 400 2680 100 1791 860 30	08 08 18 MID 08 19 09 18 18	08 08 18 MID 08 19 09 18 18	C C H C C H C C H	H H H H H H H H H	HAGERSTOWN RESERVOIR TOWN OF HANCOCK C RUSSELL LEVERING WASH SUB SANY COMM JOSEPH F JOHANNING SANDRA J HASTINGS DELWOOD E MERRILL ROBERT P MILLER HOWARD L HARVEY
NATIONAL ARBORETUM DC OAKLAND 1 SE OWINGS FERRY LANDING PATUXENT RIVER POTOMAC FILTER PLANT PRINCESS ANNE ROCKVILLE 1 NE ROYAL OAK 2 SSW SALISBURY	635004 662008 677003 691503 727206 733001 770506 780602 800001		DIS COLUMBIA GARRETT CALVERT ST MARYS MONTGOMERY SOMERSET MONTGOMERY TALBOT WICOMICO	38 54 39 24 38 41 38 20 39 2 38 13 39 6 38 43 38 22	76 59W 79 24W 76 40W 76 25W 77 15W 75 41W 77 6W 76 11W 75 35W	49 2421 160 38 269 20 440 10 10	08 17 17 MID 08 17 MID 18 17	08 17 17 MID 08 17 17 18 17	H H H C C H H H H	H H H H H H H H H	U S NATL ARBORETUM BEA J CROSCO JAMES C RASMUSSEN NAVAL WEATHER SERVICE POTOMAC WATER FILT PLT UNIV OF MD EASTERN SHORE WASHINGTON GAS AND LIGHT JOHN L SWAINE JR CITY OF SALISBURY
SALISBURY FAA ARPT # SAVAGE RIVER DAM SNOW HILL 4 N TALL TIMBERS TOWSON UNIONVILLE UPPER MARLBORO 3 NNW VIENNA WESTMINSTER POLICE BRK	800501 806508 838001 875703 887706 903006 907004 914002 944006		WICOMICO GARRETT WORCESTER ST MARYS BALTIMORE FREDERICK PRINCE GEORG DORCHESTER CARROLL	38 20 39 31 38 14 38 10 39 23 39 27 38 52 38 29 39 33	75 31W 79 8W 75 23W 76 33W 76 34W 77 11W 76 47W 75 50W 76 58W	48 1495 30 12 390 430 98 10 765	MID 08 18 17 18 17 08 18 17	MID 08 18 17 18 07 08 18 17	H H H H H C H H H	H H H H H H H H H	FAA US CORPS OF ENGINEERS CURTIS E SHOCKLEY RICHARD A EVERETT BENDIX FRIEZ RICHARD GETZANDANNER UNIVERSITY OF MARYLAND DELMARVA POWER & LIGHT MARYLAND STATE POLICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
JULY 1990

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER
							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52W	459	18	18		H	JOHN A HILTZ
DELAWARE											
DOVER	2730	002	KENT	39 9	75 31W	30	17	17		H	STATE DIV OF HIGHWAYS
GEORGETOWN 5 SW	3570	002	SUSSEX	38 38	75 27W	45	08	08	08	C	UNIV OF DEL SUBSTATION
GREENWOOD 2 NE	3599	002	SUSSEX	38 50	75 35W	45	18	18		H	DANIEL M SWARTZENTRUBER
LEWES	5320	002	SUSSEX	38 46	75 8W	15	17	17		H	BOARD OF PUBLIC WORKS
MILFORD 4 SE	5915	002	SUSSEX	38 54	75 28W	30	17	17		H	DAVID S SCHLOTT
NEWARK UNIVERSITY FARM	6410	001	NEW CASTLE	39 40	75 44W	90	17	17	17	C	UNIV OF DEL AGRIC FARM
WILMINGTON WSO ARPT	R 9595	001	NEW CASTLE	39 40	75 36W	79	MID	MID		C	NATL WEATHER SERVICE
WILMINGTON PORTER RSVR	9605	001	NEW CASTLE	39 46	75 32W	274	MID	MID		H	WATER DEPARTMENT

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

MARYLAND AND
DELAWARE
JULY 1990

DEFINITIONS

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

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

NORMALS: The average value of the meteorological element over a time period. Effective 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 month's 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. JULY 1990-0585

MEAN MONTHLY PRECIPITATION FREQUENCY DISTRIBUTION FOR PERIOD OF RECORD 1931-1990 FOR MONTH OF JULY MARYLAND

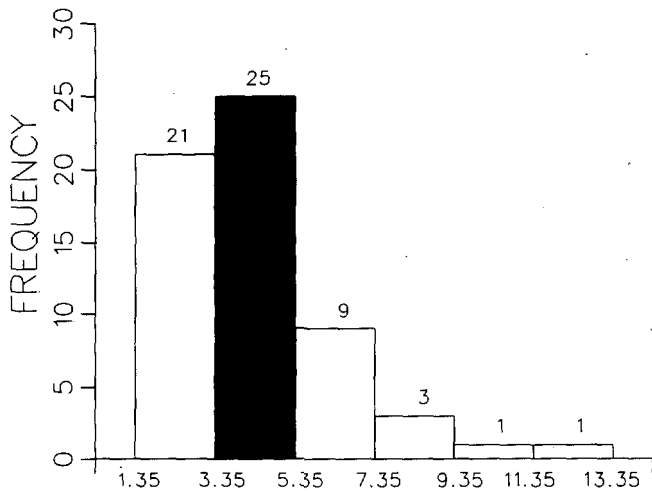
CLUSTER 1 -DIVISION(S):
SOUTHERN EASTERN SHORE 01
CENTRAL EASTERN SHORE 02
LOWER SOUTHERN 03

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

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

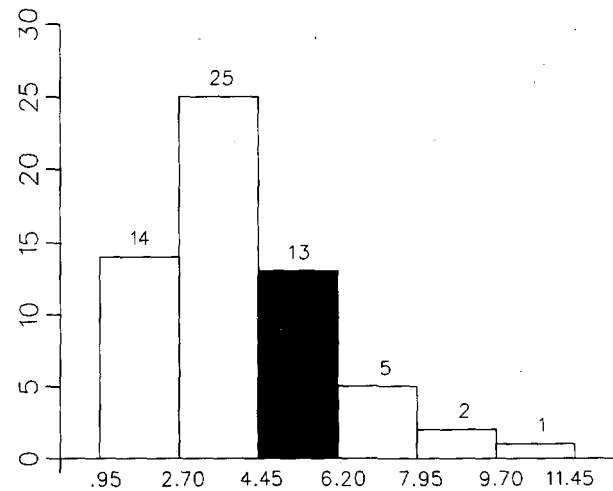
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08

THIS MONTHS VALUE = 4.06, RANK = # 28 WETTEST



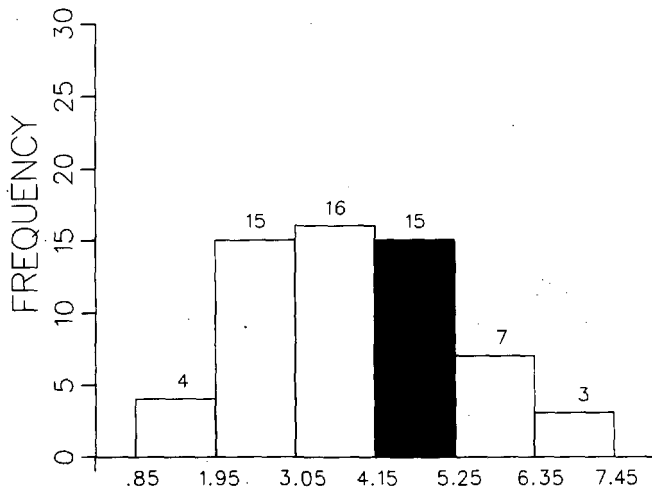
CLUSTER 1 (INCHES)

THIS MONTHS VALUE = 5.49, RANK = # 13 WETTEST



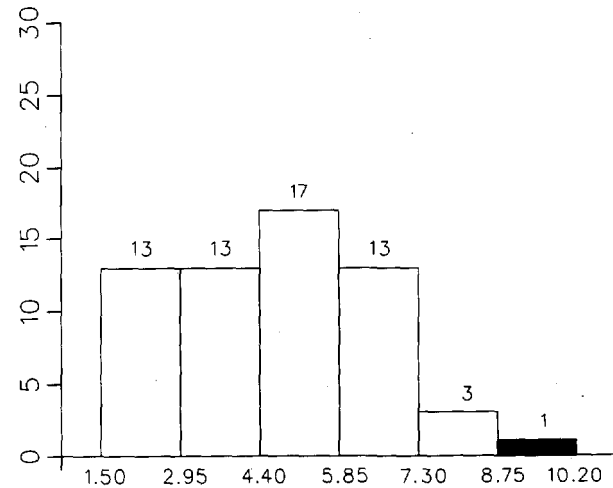
CLUSTER 2 (INCHES)

THIS MONTHS VALUE = 4.89, RANK = # 15 WETTEST



CLUSTER 3 (INCHES)

THIS MONTHS VALUE = 10.11, RANK = # 1 WETTEST

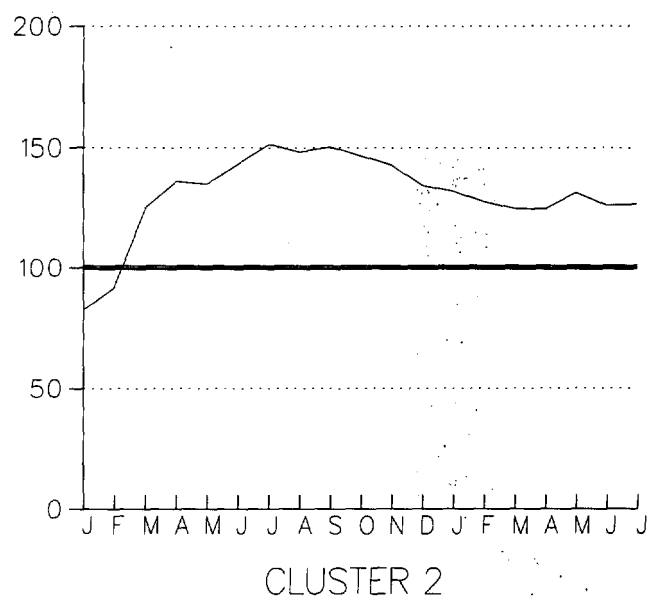
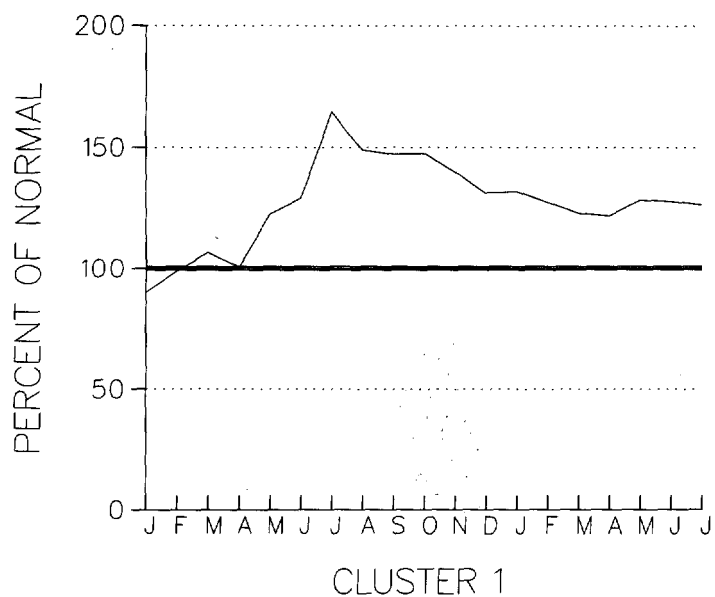


CLUSTER 4 (INCHES)

CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE LAST 19 MONTHS
ENDING JULY 1990
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

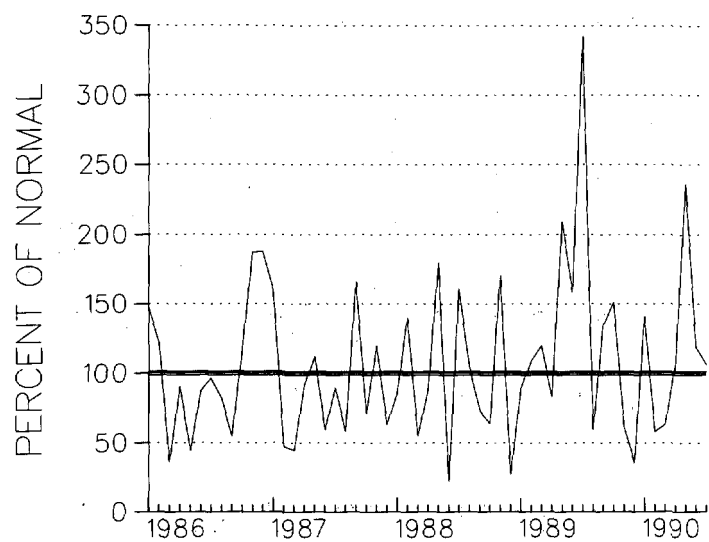
CLUSTER 2 -DIVISION(S):
SOUTHERN 02



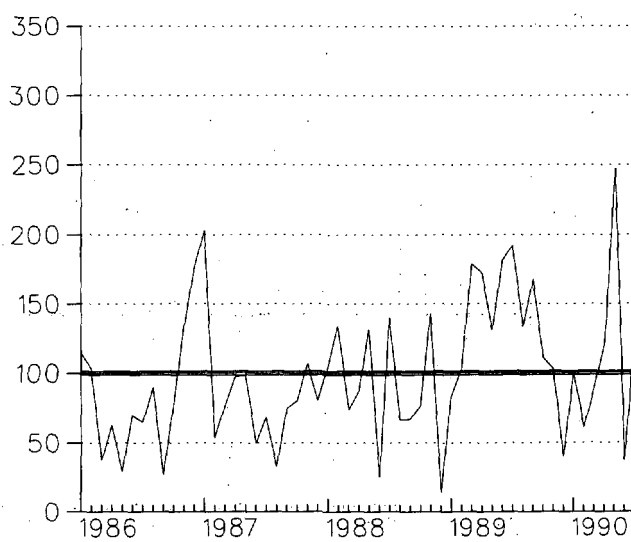
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE 55 MONTHS
ENDING JULY 1990
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



CLUSTER 1



CLUSTER 2

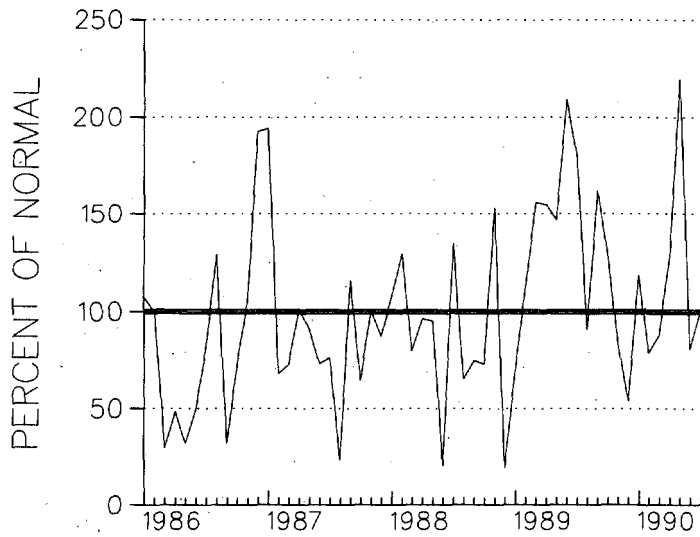
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE 55 MONTHS
ENDING JULY 1990
MARYLAND

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

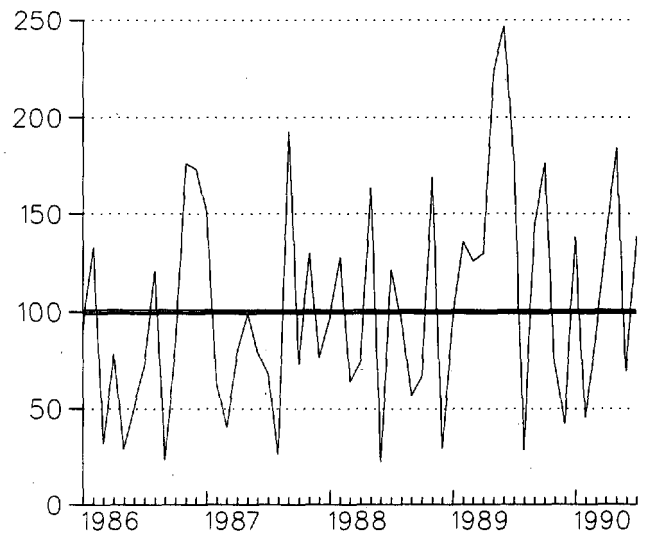
CLUSTER 2 -DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

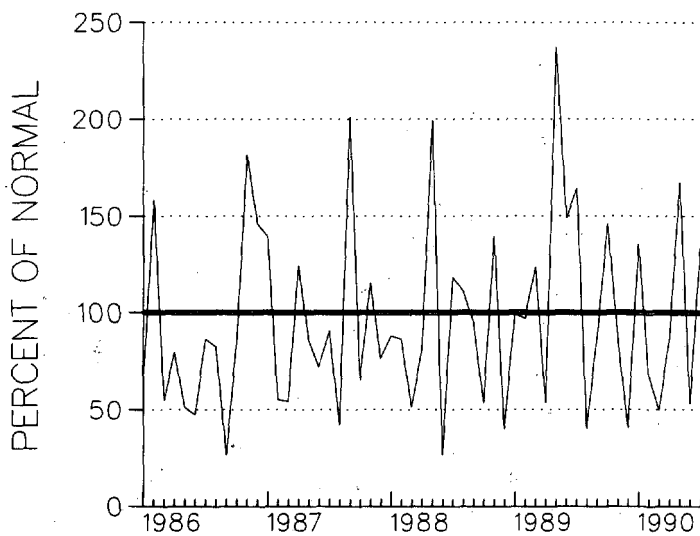
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



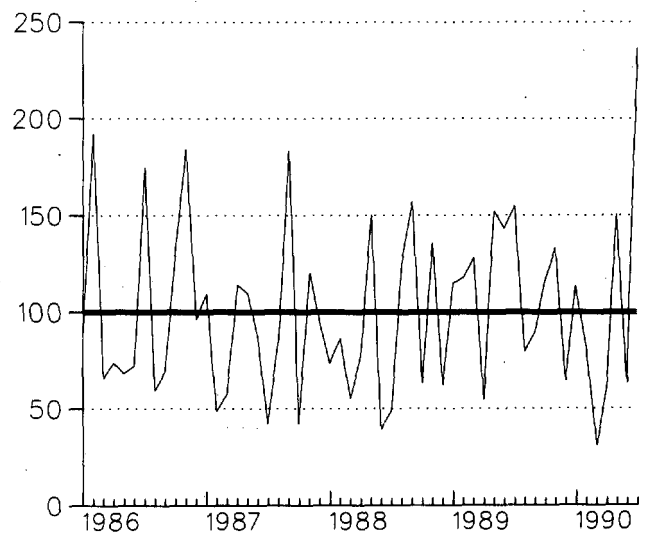
CLUSTER 1



CLUSTER 2



CLUSTER 3



CLUSTER 4

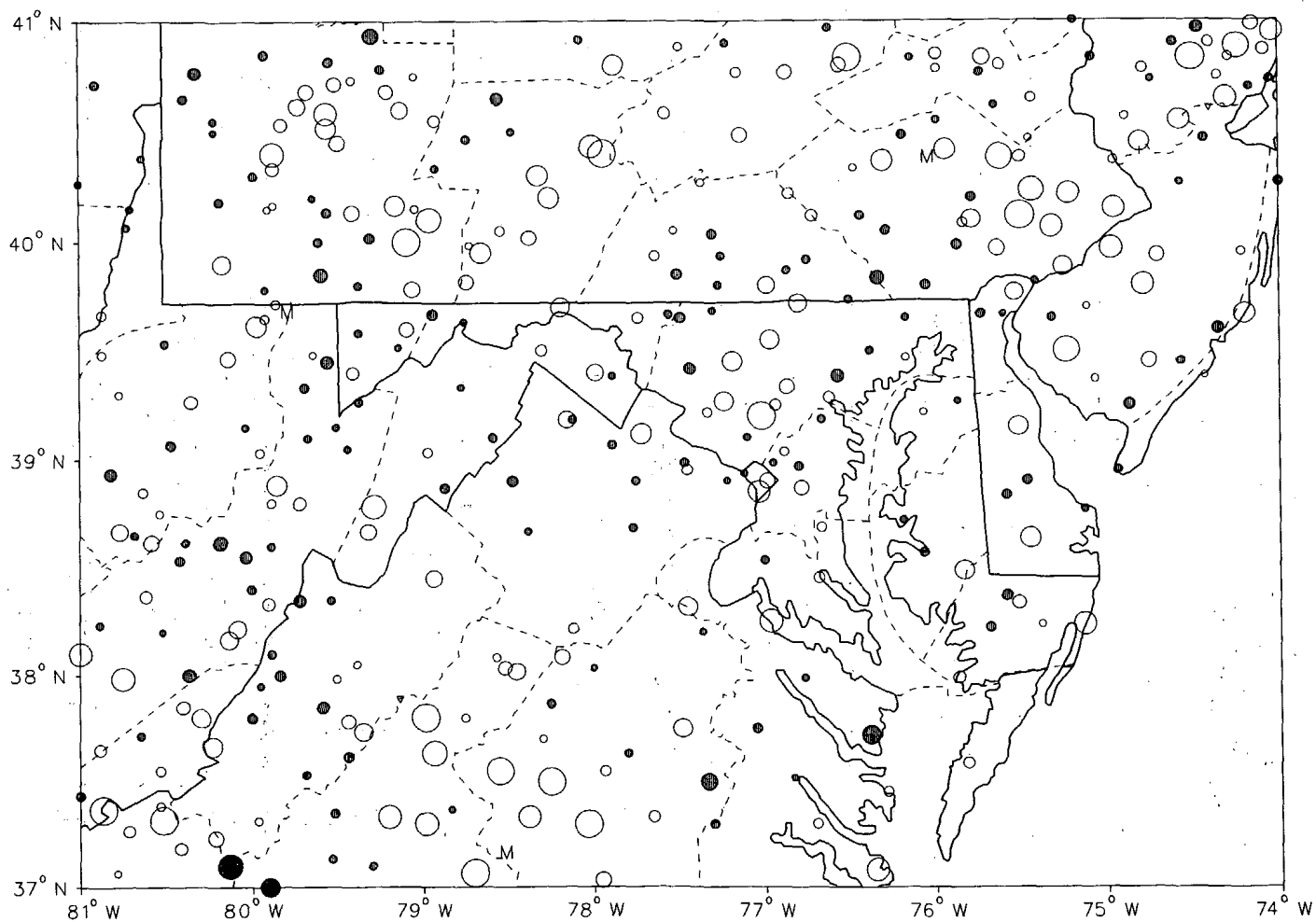
MONTHLY PRECIPITATION DEPARTURE FROM THE DIVISIONAL AVERAGE FOR JULY 1990 MARYLAND & DELAWARE

M DENOTES INCOMPLETE DATA FOR THE MONTH

▽ ZERO DEPARTURE

○ ○ ○ ○ 5,10,20,... 50% OR MORE BELOW AVERAGE

● ● ● ● 10,20,40,...100% OR MORE ABOVE AVERAGE

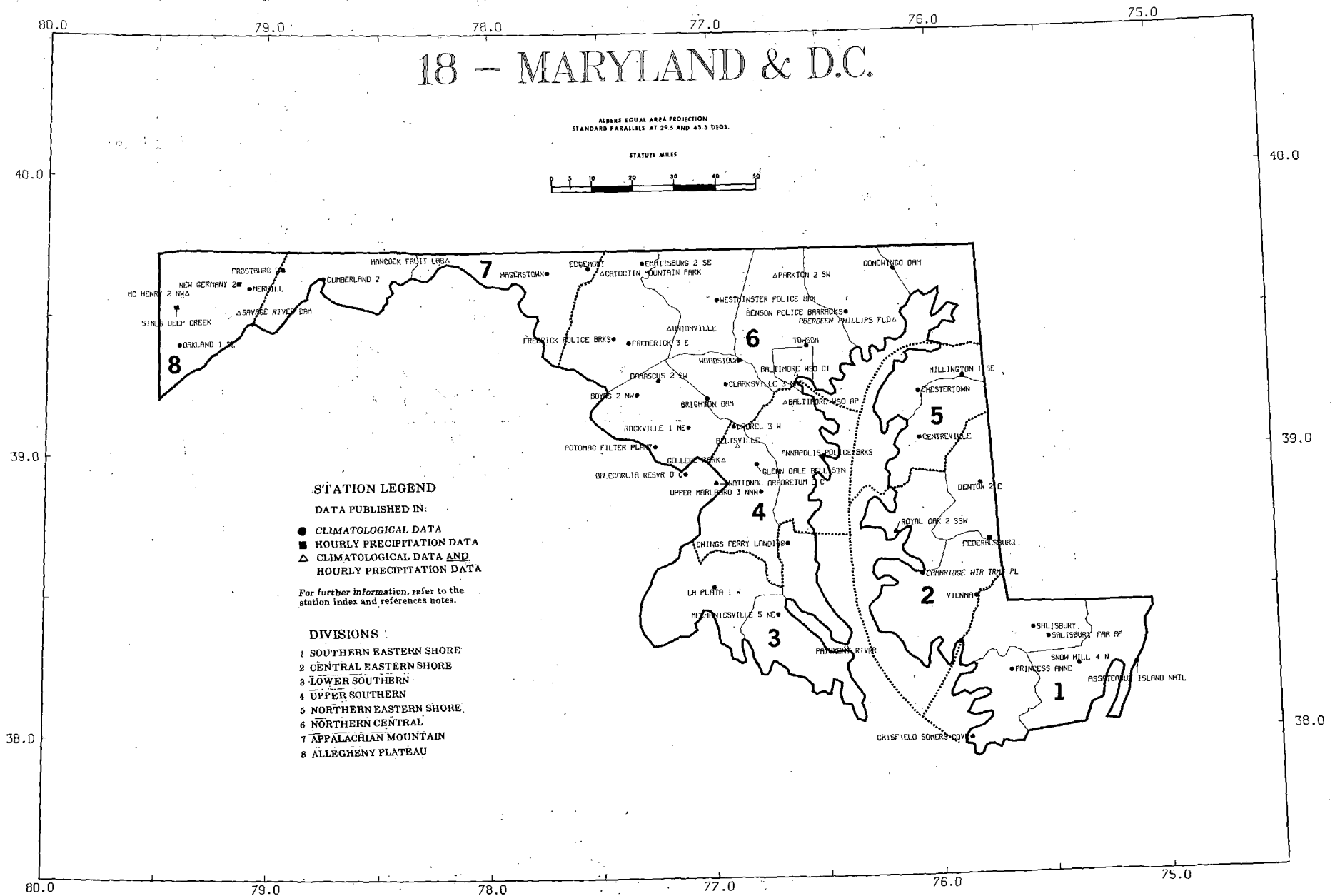
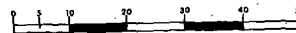


CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

18 - MARYLAND & D.C.

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

STATUTE MILES



76.0
40.0

75.0

40.0

07 - DELAWARE

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

STATUTE MILES



STATION LEGEND

DATA PUBLISHED IN:

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

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

DIVISIONS

- 1 NORTHERN
- 2 SOUTHERN

39.0

39.0

2

WILMINGTON PORTER RESERVOIR

NEWARK UNIVERSITY FARM

WILMINGTON WSO RP

MIDDLETOWN 1 WSW

DOVER

MILFORD 4 SE

BRIDGEVILLE 1 NW

LEWES

GEORGETOWN 5 SW

38.0
76.0

75.0

38.0

MONTHLY PRECIPITATION TOTALS

ANNUAL 1987
NORTH CAROLINA

STATION

ANNUAL

MONTH

JAN

FEB

MAR

APR

MAY

JUN

JUL

SEP

OCT

NOV

DEC

NORTH CAROLINA

34.57

1.11

1.85

2.75

0.57

3.55

ASHEVILLE WSO AP

25.67

0.71

1.57

1.81

0.53

2.60

ASHTON

38.74E

1.20

2.70

2.90

0.54E

1.20

BADIN

-

1.30

2.60

3.60

1.20

1.20

B EVERETT JORDAN DAN

-

1.70

1.50

3.60

1.20

1.20

BOOMER 5 WSH

-

1.00

2.10

1.92E

1.20

1.20

BURLINGTON 3 WNE

48.86

0.80

1.92E

1.20

1.20

1.20

CAPE HATTERAS WSO

-

5.75

1.20

1.20

1.20

1.20

CARTHAGE 8 SE

-

1.70

1.20

1.20

1.20

1.20

CATALOCHEE

-

0.60

1.20

1.20

1.20

1.20

CHARLOTTE WSO AP

25.91

1.20

1.20

1.20

1.20

1.20

CLINTON 2 NE

35.00

1.20

1.20

1.20

1.20

1.20

DALTON

-

1.20

1.20

1.20

1.20

1.20

DODSON

-

1.20

1.20

1.20

1.20

1.20

EDEN

-

1.20

1.20

1.20

1.20

1.20

ELIZABETH

-

1.20

1.20

1.20

1.20

1.20

ELLEN

-

1.20

1.20

1.20

1.20

1.20

FAVE

-

1.20

1.20

1.20

1.20

1.20

FRANK

-

1.20

1.20

1.20

1.20

1.20

GREENS

-

1.20

1.20

1.20

1.20

1.20

GREENVILLE

-

1.20

1.20

1.20

1.20

1.20

HELTON

-

1.20

1.20

1.20

1.20

1.20

HOBUCKEN

-

1.20

1.20

1.20

1.20

1.20

LAKE LURE

-

1.20

1.20

1.20

1.20

1.20

LAURINBURG

-

1.20

1.20

1.20

1.20

1.20

LEXINGTON

-

1.20

1.20

1.20

1.20

1.20

MOORESVILLE 2

-

1.20

1.20

1.20

1.20

1.20

MOREHEAD CITY

-

1.20

1.20

1.20

1.20

1.20

MOUNT PLEASANT

-

1.20

1.20

1.20

1.20

1.20

N WILKESBORO 12

-

1.20

1.20

1.20

1.20

1.20

POLKTON 2 NE

-

1.20

1.20

1.20

1.20

1.20

QUEBEC

-

1.20

1.20

1.20

1.20

1.20

RALEIGH-DURHAM WSO

-

1.20

1.20

1.20

1.20

1.20

ROANOKE RAPIDS

-

1.20

1.20

1.20

1.20

1.20

ROARING GAP 1 NW

-

1.20

1.20

1.20

1.20

1.20

SHELBY 2

-

1.20

1.20

1.20

1.20

1.20

SNEADS FERRY 2 ENE

-

1.20

1.20

1.20

1.20

1.20

SHAWANNO 2 SSE

-

1.20

1.20

1.20

1.20

1.20

WILKINGTON WSO AP

-

1.20

1.20

1.20

1.20

1.20

WILSON 3 SW

-

1.20

1.20

1.20

1.20

1.20

YADKINVILLE 4 E

-

1.20

1.20

1.20

1.20

1.20

ISSN 0364-6319

HOURLY
PRECIPITATION DATA
NORTH CAROLINA

HOURLY PRECIPITATION DATA NORTH CAROLINA

DECEMBER 1987
WITH ANNUAL SUPPLEMENT
VOLUME 37 NUMBER 12

31 - NORTH CAROLINA

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- * Energy

ISSN 0364-8319

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.

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

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VALIDATED BY:

Ted Burlew
Betty Edstrom
Bruce Emory
Joyce Morgan
Betty Shuford

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