



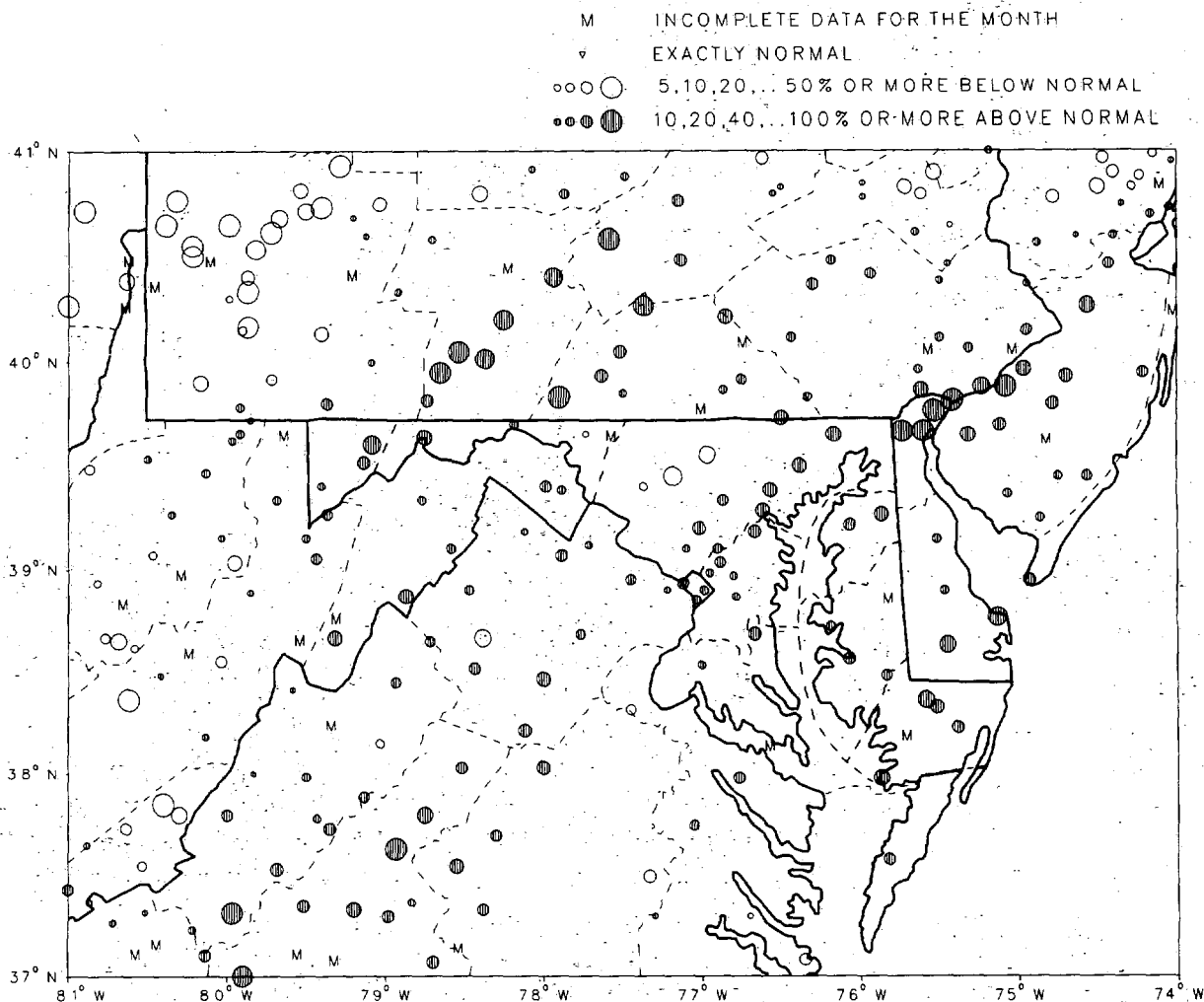
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CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

JULY 1989

VOLUME 93 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. Hadden

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

noaa

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OCEANIC AND
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NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER,
ASHEVILLE NORTH CAROLINA

TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND AND
DELAWARE
JULY 1989

MARYLAND
HIGHEST TEMPERATURE 101
LOWEST TEMPERATURE 49
GREATEST TOTAL PRECIPITATION 10.03
LEAST TOTAL PRECIPITATION 2.12
GREATEST 1 DAY PRECIPITATION 5.16

DELAWARE
HIGHEST TEMPERATURE 97
LOWEST TEMPERATURE 55
GREATEST TOTAL PRECIPITATION 14.86
LEAST TOTAL PRECIPITATION 6.14
GREATEST 1 DAY PRECIPITATION 6.63

JULY 11
JULY 29+

JULY 16

JULY 25
JULY 30+

JULY 5

BALTIMORE WSO CITY R
3 STATIONS
FROSTBURG 2
UNIONVILLE
SALISBURY

DOVER
2 STATIONS
WILMINGTON PORTER RSVR
MILFORD 4 SE
WILMINGTON WSO ARPT R

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
JULY 1989

STATION	TEMPERATURE (°F)													PRECIPITATION (IN)										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
											90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	5.00 OR MORE	1.00 OR MORE
MARYLAND																								
SOUTHERN EASTERN SHORE 01																								
ASSATEAGUE IS NATL SEA	86.6	67.3	77.0		99	12	59	1	0	378	9	0	0	0	6.64		3.47	17	.0	.0		4	2	2
CRISFIELD SOMERS COVE	85.6	72.3	79.0	.3	94	11	63	2+	0	441	6	0	0	0	8.64	4.87	4.01	31	.0	.0		7	3	2
PRINCESS ANNE																								
SALISBURY		63.4			87	29+	54	13			0	0	0	0	9.03	5.27	5.16	16	.0	.0		10	2	2
SALISBURY FAA ARPT	85.1	66.7	75.9	-.6	94	11	56	1	0	344	7	0	0	0	8.80	4.40	4.20	16	.0	.0		6	5	3
SNOW HILL 4 N	86.7	66.0	76.4	.5	96	11	53	1	0	360	11	0	0	0	7.25	3.26	3.05	16	.0	.0		8	3	3
--DIVISIONAL DATA----->			77.1	.5											8.07	4.14			.0					
CENTRAL EASTERN SHORE 02																								
CAMBRIDGE WATER TRMT P	87.5	68.3	77.9	1.0	97	11	58	1	0	408	13	0	0	0	8.00	3.69	2.60	16	.0	.0		10	5	4
DENTON 2 E																								
ROYAL OAK 2 SSW	86.1	69.6	77.9	.2	97	11	59	30+	0	407	9	0	0	0	6.62	2.23	2.33	16	.0	.0		7	4	2
VIENNA	89.2	65.9	77.6	.2	98	11+	57	5	0	398	15	0	0	0	6.45	2.51	3.53	16	.0	.0		5	2	2
--DIVISIONAL DATA----->			77.8	.6											7.02	2.88			.0					
LOWER SOUTHERN 03																								
LA PLATA 1 W	82.9	66.6	74.8	-1.1	91	11	55	31+	0	307	2	0	0	0	5.33	1.30	1.63	31	.0	.0		6	4	3
MECHANICSVILLE 5 NE	83.9	66.4	75.2		94	11	52	2+	0	323	6	0	0	0	7.76		2.41	31	.0	.0		7	3	3
OWINGS FERRY LANDING	83.6	65.2	74.4	-1.9	93	11	52	1	0	298	2	0	0	0	6.93	3.27	2.13	5	.0	.0		6	5	3
PATUXENT RIVER	85.9	69.5	77.7		96	11	60	1	0	401	9	0	0	0	7.46		4.41	16	.0	.0		9	3	2
TALL TIMBERS																								
--DIVISIONAL DATA----->			75.5	-1.2											6.87	2.77			.0					
UPPER SOUTHERN 04																								
ANNAPOLIS POLICE BRKS	88.0	65.1	76.6		98	11	55	1	0	367	14	0	0	0	8.12		2.00	5	.0	.0		7	4	4
BALTIMORE WSO ARPT	84.2	67.8	76.0	-.8	94	23+	57	1	0	351	7	0	0	0	7.35	3.46	1.60	20	.0	.0		12	7	1
BELTSVILLE	86.0	66.0	76.0	.8	99	12	53	1	0	348	10	0	0	0	6.87	2.73	2.23	6	.0	.0		10	3	3
COLLEGE PARK	86.2	68.9	77.6	.4	96	12	56	1	0	399	11	0	0	0	5.24	1.18	2.14	6	.0	.0		7	4	2
DALECARLIA RESVR DC	87.5	63.3	75.4	-1.8	95	24+	52	1	0	330	13	0	0	0	6.78	2.74	1.72	4	.0	.0		13	5	2
GLENN DALE BELL STN	86.9	64.3	75.6	.0	96	12	50	1	0	333	11	0	0	0	5.47	1.16	1.48	20	.0	.0		7	4	2
LAUREL 3 W	85.6	65.3	75.5	-1.7	95	27	54	1	1	331	9	0	0	0	5.99	2.11	1.70	20	.0	.0		7	6	2
NATIONAL ARBORETUM DC	87.3	64.0	75.7	-2.0	97	12	53	1	0	337	12	0	0	0	5.97	1.77	2.01	6	.0	.0		9	3	2
UPPER MARLBORO 3 NNW	85.4	64.3	74.9		96	12	52	1	0	313	9	0	0	0	5.39	1.33	1.30	27	.0	.0		9	4	2
--DIVISIONAL DATA----->			75.9	-.6											6.35	2.36			.0					
NORTHERN EASTERN SHORE 05																								
CHESTERTOWN	85.4	67.9	76.7	-.2	95	11	58	1	0	368	9	0	0	0	7.13	3.19	1.46	20	.0	.0		8	7	2
MILLINGTON 1 SE	85.0	65.4	75.2	-.4	94	11	55	1	0	322	6	0	0	0	8.06	4.19	1.56	20	.0	.0		13	8	1
--DIVISIONAL DATA----->			76.0	-.5											7.60	3.67			.0					
NORTHERN CENTRAL 06																								
ABERDEEN PHILLIPS FLD																								
BALTIMORE WSO CITY	87.7	72.4	80.1	-.2	92	12+	61	14			8	0	0	0	7.50		1.64	20	.0	.0		7	5	2
BENSON POLICE BARRACKS	87.5	64.6	76.1	1.2	101	11	64	29	0	472	12	0	0	0	8.28	4.25	2.88	16	.0	.0		8	6	3
BOYDS 2 NW	83.8	66.0	74.9		96	23+	54	1	0	351	12	0	0	0	8.99	4.64	2.10	5	.0	.0		11	7	2
CATOCTIN MOUNTAIN PARK	78.2	63.7	71.0		93	11	57	29+	0	316	5	0	0	0	2.83		.64	20	.0	.0		8	2	0
CLARKSVILLE 3 NNE	86.1	64.8	75.5		87	11	55	30	0	192	0	0	0	0	5.98		4.08	5	.0	.0		6	2	1
CONOWINGO DAM	85.5	63.7	74.6		94	26+	51	1	0	329	11	0	0	0	5.81		1.22	16	.0	.0		7	5	3
DAMASCUS 2 SW	83.1	65.5	74.3	-.5	98	23	49	1	0	304	9	0	0	0	9.84	5.47	3.03	5	.0	.0		10	5	5
					92	11	55	29+	0	298	7	0	0	0	4.25		.81	131	.0	.0		8	5	0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
JULY 1989

STATION	TEMPERATURE (°F)													PRECIPITATION (IN)									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	TOTAL	SNOW SLEET		NO. OF DAYS				
									90 OR ABOVE MAX	32 OR BELOW MIN	32 OR BELOW MIN	0 OR BELOW MIN					MAX	DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE	
EMMITSBURG 2 SE	83.9	65.0	74.5		93 11	52 1	1	303	5	0	0	0	4.95		1.22 13	0	0		8	4	2		
FREDERICK POLICE BRKS	87.5	67.2	77.4		97 11	56 3+		391	1	0	0	0	3.13		1.88 31	0	0		5	3	0		
MILLERS 4 NE	82.5	64.7	73.6		91 11	53 1		277	2	0	0	0	4.51		1.03 13	0	0		4	4	1		
ROCKVILLE 1 NE	83.0	68.6	75.8		93 11	56 1		342	2	0	0	0	4.82	1.04	1.02 20	0	0		8	4	1		
TOWSON	85.4	65.4	75.4		94 11	58 29+		331	1	0	0	0	8.68	4.55	2.00 20+	0	0		1	7	1		
UNIONVILLE	85.6	64.0	74.8	-1.2	95 11	50 1		310	1	0	0	0	2.12	-1.47	.55 13	0	0		7	1	0		
WESTMINSTER POLICE BRK	85.6	61.3	73.5	-1.7	96 22	53 29+	2	271	9	0	0	0	2.66	-1.34	.51 31	0	0		7	2	0		
WOODSTOCK	85.8	65.5	75.7	-0.8	95 11	53 1	0	338	1	0	0	0	5.96	2.40	1.47 31+	0	0		6	6	2		
--DIVISIONAL DATA-->			75.1	0									5.64	1.74		0	0						
APPALACHIAN MOUNTAIN 07																							
CUMBERLAND 2	84.6	64.6	74.6	-2	94 11	56 14	0	304	8	0	0	0	7.01	3.82	2.40 17	0	0		9	3	3		
FROSTBURG 2	76.7	60.5	68.6		85 26+	49 1	18	139	0	0	0	0	10.03		1.88 7	0	0		11	7	3		
HAGERSTOWN	79.8				89 11	58 15			0	0	0	0	3.24	-1.10		0	0		3	0	0		
HANCOCK FRUIT LAB	84.2	63.4	73.8	-9	94 12	50 1	0	281	6	0	0	0	5.24	1.68	1.27 5	0	0		7	5	2		
--DIVISIONAL DATA-->			72.3	-1.1									6.38	2.96		0	0						
ALLEGHENY PLATEAU 08																							
MC HENRY 2 NW	79.5	60.4	70.0		87 24	50 29	11	171	0	0	0	0	7.08		1.47 10	0	0		10	7	2		
OAKLAND 1 SE	78.5	60.2	69.4	-2.0	85 24	49 29	11	155	0	0	0	0	5.97	1.29	1.39 9	0	0		12	5	2		
SAVAGE RIVER DAM	80.5	62.1	71.3	-1.8	95 8	50 1	3	209	2	0	0	0	6.82	3.20	1.15 17	0	0		13	6	2		
--DIVISIONAL DATA-->			70.2	2.5									6.62	2.35		0	0						
DELAWARE																							
NORTHERN 01																							
NEWARK UNIVERSITY FARM	85.9	65.5	75.7	-0	94 27+	55 1	0	339	9	0	0	0	13.58	9.26	4.39 5	0	0		10	5	4		
WILMINGTON WSO ARPT R	84.2	67.5	75.9	-1	96 26	59 29+	0	345	7	0	0	0	12.63	8.73	6.63 5	0	0		9	4	3		
WILMINGTON PORTER RSVR	83.3	66.8	75.1	-2	92 26	60 29+	0	322	7	0	0	0	14.86	10.73	6.15 5	0	0		10	5	4		
--DIVISIONAL DATA-->			75.6	-1									13.69	9.69		0	0						
SOUTHERN 02																							
DOVER	87.0	67.4	77.2	-2	97 25+	58 1	0	384	11	0	0	0	6.24	1.97	1.30 16	0	0		13	5	2		
GEORGETOWN 5 SW	85.7	65.6	75.7	-4	95 12	55 30+	0	339	8	0	0	0	9.26	5.24	2.82 17	0	0		9	6	2		
GREENWOOD 2 NE	84.8	66.1	75.5		94 11	56 30	0	332	8	0	0	0	7.72		1.87 31	0	0		8	4	4		
LEWES	85.5	68.9	77.2	-2.0	93 10	61 2+	0	385	9	0	0	0	11.26	7.10	3.73 7	0	0		10	6	3		
MILFORD 4 SE	85.0	66.7	75.9	-6	92 11	56 30	0	342	7	0	0	0	6.14	1.76	2.05 31	0	0		6	2	2		
--DIVISIONAL DATA-->			76.3	1									8.12	3.89		0	0						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
JULY 1989

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
MARYLAND																																	
SOUTHERN EASTERN SHORE 01																																	
ASSATEAGUE IS NATL SEA	6.64						.04	.09							.30	T	T	3.47	.01		T						.17	.02	.02	1.10	*	1.42	
CRISFIELD SOMERS COVE	8.64						*	1.27					.25	.22			.60	.12										.08	1.58	.48	.03	-	4.01
PRINCESS ANNE	M																															-	
SALISBURY	9.03					.27	.30	.27						.36	.16		5.16	.02	T			.01						.20	.15	.48		-	1.65
SALISBURY FAA ARPT	8.80				T	T	1.43							.27	.09		4.20											.56		.52		T	1.73
SNOW HILL 4 N	7.25					.04		.13						.39	.13		3.05	.45			.03							.39	.03	1.15			1.46
CENTRAL EASTERN SHORE 02																																	
CAMBRIDGE WATER TRMT P	8.00				.50	.10	1.07	.09					.02	.15	.04		2.60	.05										.13	1.18	.40	.12	-	1.55
DENTON 2 E	M																															-	
ROYAL OAK 2 SSW	6.62				.23	.73	.13	.08						.15	.03		2.33				.02									.72		-	2.20
VIENNA	6.45						.08	.08						.25	*	.02	3.53	.01										.20	.05	.27		-	1.96
LOWER SOUTHERN 03																																	
LA PLATA 1 W	5.33				T	.15	1.25						.09		.09		1.02											T	.75	.35		T	1.63
MECHANICSVILLE 5 NE	7.76				T	1.63	.34	.26					.30	T	.09		2.25	T			T							.04	.05	.39		T	2.41
OWINGS FERRY LANDING	6.93				.27	2.13	.90	.03						T	.03		1.24	.03				.08						.02	T	1.50		-	.70
PATUXENT RIVER	7.46				.13	.54	.23						.01	.22	.13		4.41											T		.45		.15	1.19
TALL TIMBERS	M																															-	
UPPER SOUTHERN 04																																	
ANNAPOLIS POLICE BRKS	8.12				.08	2.00	1.53							.09	.11		1.98	.03			1.68							.01	.12	.13			.48
BALTIMORE WSO ARPT	7.35				.59	.18	.88	T					T	.39		T	.45				1.60						.76	.87	.15		.51	.85	
BELTSVILLE	6.87				.02	1.05	2.23	.02						.04	.22		.30	.39			1.17								.34	.43		.34	.32
COLLEGE PARK	5.24					.51	2.14	T	.06					.02	.11		.33	.50			1.13									.03			.41
DALECARLIA RESVR DC	6.78				1.72	.35	.68							.12	.15		.67	.30			1.14							.45	.28	.64	.18		.10
GLENN DALE BELL STN	5.47				.05	.70	1.47							.07	.08		.76	.01			1.48							.23	.13	.05			.44
LAUREL 3 W	5.99				1.03	.80	.63										.75				1.70							.01	.26		.06		.75
NATIONAL ARBORETUM DC	5.97				.40	.46	2.01	.50						.01	.18		.10	.47			1.30							*	.36	.05			.13
UPPER MARLBORO 3 NNW	5.39					.20	.94	.12							.12		.08	.68			.43								1.30	1.28			.24
NORTHERN EASTERN SHORE 05																																	
CHESTERTOWN	7.13				.68	.92	1.27		T				T	.35	T		.84				1.46	T						.98	T			.08	.55
HILLINGTON 1 SE	8.06				.71	.57	.97	.12						.51	.06		.73	.19			1.56		.03					.31	.47	.86		.13	.84
NORTHERN CENTRAL 06																																	
ABERDEEN PHILLIPS FLD	7.50				*	1.26	.54	.50						.56	.03	*	*	1.10			1.64	.20						1.21	T	.14	*	*	.32
BALTIMORE WSO CITY	8.28				.40	.50	.95							.57	.03		2.88				1.88								.15			.92	
BENSON POLICE BARRACKS	8.99				.91	2.10	.65	.15						.68	.03	.03	2.00	.01			1.36	T						.08	.20	.13	.01	.10	.55
BOYDS 2 NW	2.83				.19	.10	.22							.31			.42				.64								.41				.54
BRIGHTON DAM	6.90				1.20	.20	.60							.80			.90				1.70								.40	.30	.10	.30	.40
CATOCTIN MOUNTAIN PARK	5.98					4.08	.26	.04						.50	.07			.33	.06									.01	.07				.12
CLARKSVILLE 3 NNE	5.81				1.18	.08	.54							.48			1.22				1.06	.44							.07	.27	.02	.02	.87
CONOWINGO DAM	9.84				1.39	3.03	.22							1.10			1.40	.02			1.68	.04							.14	.15	.04	.14	.49
DAMASCUS 2 SW	4.25				T	.19	.12	.66		.02				.76			.74	T			.51					.01		T		.37		.06	.81
EMMITSBURG 2 SE	4.95					.84	.32	T						1.22	.12		.60			.46	T					.08						.21	1.10
FREDERICK POLICE BRKS	3.13					.44								.71			.38	T			.72					T						T	.88
FREDERICK 3 E	3.32					.36	.11	.03	.02					.26	.19		.66	.08				.98	.07	T								T	.56
MILLERS 4 NE	4.51				.58	.33	.16		.01					1.03	.02	.59	.40	.02		T	.63	.05	T						.02			.22	.45
POTOMAC FILTER PLANT	3.61				.45	.07	.14							.48			.60				1.00						.20		T	.11		.09	.47
ROCKVILLE 1 NE	4.82				.91	.02	.47		T					.35			.74			.01	1.02							.67				.32	.31
TOWSON	8.68	10			.49	.80	.83							.62		.68	2.00	.01			2.00	.18						.01		.03		.10	.83
UNIONVILLE	2.12				.10	.12	.13							.55			.30	T			.46											.37	.09
WESTMINSTER POLICE BRK	2.66				.38	.15	.23							.44	.03	.01	.30	.01			.50			.05								.05	.51
WOODSTOCK	5.96				.93	.07	.59							.52			1.47				.80	.04								.03		.04	1.47

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
JULY 1989

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
APPALACHIAN MOUNTAIN 07																																
CUMBERLAND 2	7.01					.48	.41	.10			.07			.22	.05	T	.02	2.40			1.54	.02	.22				T		1.08			.40
EDGE MONT	M	-	-	-	-																											
FROSTBURG 2	10.03					1.66	.27	1.88			.34		.03	.25	.04	T	.01	.83			.77	.99	T				.80	T	1.76	T	.03	.37
HAGERSTOWN	3.24	*	*	*	*	.83	.09	*	*	.85				.43	.06		.22				.28		*	.04				.05	*	*	.34	.05
HANCOCK FRUIT LAB	5.24					1.27	.08	.03	.23					.12	1.01		.05	.90			.68			.05					.08			.74
ALLEGHENY PLATEAU 08																																
MC HENRY 2 NW	7.08				.01	.51	.06	.30			1.47	.02	.52	.70	.06	.05	.11	.67	T		1.22	.02					.07	.88	.04	.02		.35
MERRILL	9.29					1.40	.12	.23					.40	.36	.02		.15	.77	T		.92	1.57	.15			2.08	.01	.70	.06		.35	
OAKLAND 1 SE	5.97				.12	.50	.16	T		1.39			.13	1.12	T	T	.45	.80		.07	.67					.09	.12	T	.10	T	.25	
SAVAGE RIVER DAM	6.82				.15	.80		.24			.82		.21	.40	T	.11	.03	1.15	T		1.02	.77	.62				.21	T	T		.29	
DELAWARE																																
NORTHERN 01																																
NEWARK UNIVERSITY FARM	13.58				.90	4.39	.31							1.00			3.98	.12			2.01	.08	T				.15	.18		T	.46	
WILMINGTON WSO ARPT R	12.63				.24	6.63	.26					T		.91	T		1.62				2.28	T				T	.32	.01		.14	.22	
WILMINGTON PORTER RSVR	14.86				.24	6.15	.36							1.29			1.35				3.98	.63				.03	.39	.01		.25	.18	
SOUTHERN 02																																
DOVER	6.24				.30	.55	.17							.80	.20		1.30	.67			.13		1.13				.22	.16	.14	.04	.43	
GEORGETOWN 5 SW	9.26					.21	.20	.47							.55		2.82										.87	.87	.74		2.53	
GREENWOOD 2 NE	7.72				.05	.25	.11	.25						.10		1.79											1.85	.02	1.43		1.87	
LEWES	11.26					.60	.65	3.73						.82			2.85	.10			.26						.27	.22			1.76	
MILFORD 4 SE	6.14					.32	*	*	1.10					.24			1.63										.38	.42			2.05	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

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

MARYLAND AND
DELAWARE
JULY 1989

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												T	0	T	0	13.7	-									M	13.7M	M	28.88			
CRISFIELD SOMERS COVE																6.0	-								M	6.0M		32.30				
SALISBURY											M	.0	0	T	0	10.0	-	M	.0	-	M	.0	-					51.04				
SALISBURY FAA ARPT												.7	0	T	0	6.7	-										6	9.1M	47.04			
SNOW HILL 4 N												1.0	0		.3	0	21.7	9		.3	0	T	0				9	23.3	44.34			
CENTRAL EASTERN SHORE 02																																
CAMBRIDGE WATER TRMT P												1.0	0	T	0	11.5	5	1.0	-	1M	.0	-					6	13.5M	47.97			
DENTON 2 E												T	0M		.0	-	10.5	-	2.0	-	T	0	-			M	12.5M		48.03			
ROYAL OAK 2 SSW												1.0	0	3.0	0	6.8	2	1.0	2	T	0	-					4	11.8	56.23			
LOWER SOUTHERN 03																																
LA PLATA 1 W												1.7	1	.4	0	4.0	1	1.9	4								6	8.0	46.29			
MECHANICSVILLE 5 NE												1.8	2	.8	0	4.5	3	.5	2								7	7.6	50.34			
OWINGS FERRY LANDING												1.1	1	1.9	0	1.3	1	T	0								2	4.3	47.68			
PATUXENT RIVER												.5	-	T	0	13.4	-	T	0	T	0	-						2	13.9M	45.24		
UPPER SOUTHERN 04																																
ANNAPOLIS POLICE BRKS																																
BALTIMORE WSO ARPT												.9	0	6.0	5	1.1	0	M	.0	-								5	.3M	53.35		
BELTSVILLE												T	0	2.3	2	.4	0		.7	1									3	8.3	44.33	
COLLEGE PARK												1.0	0	1.0	0	T	0	M	.0	2									2	3.4	48.32	
DALECARLIA RESVR DC														M	.0	2		M	.0	-										1	1.0	47.13
GLENN DALE BELL STN																4.5	2		.0	-												
LAUREL 3 W												M	.0	-	M	6.0	-		.3	-						M	4.8M	2M	4.8M	50.85		
NATIONAL ARBORETUM DC														M	.5	-	M	.0	-													
UPPER MARLBORO 3 NNW												.8	0	3.5	3	T	0		.0	-						M	.5M		2	4.3M	56.53	
NORTHERN EASTERN SHORE 05																																
CHESTERTOWN																																
MILLINGTON 1 SE												.3	0	4.5	6	3.1	1	.6	2									9	8.5	57.94		
NORTHERN CENTRAL 06												T	0M	.0	-	2.8	0M	.0	-													
ABERDEEN PHILLIPS FLD																																
BENSON POLICE BARRACKS												T	0	5.0	-	1.0	0	T	0													
BOYDS 2 NW												T	0	8.1	7	T	0	1.7	1									8	9.8	59.80		
CATOCTIN MOUNTAIN PARK														8.0	8	T	0		.0	3												
CLARKSVILLE 3 NNE												.5	5M	3.0	12	.8	0	6.3	-										11	8.0	42.94	
DAMASCUS 2 SW												1.4	0	10.9	7	.4	0	1.1	2										17	10.6M	42.91	
EMMITSBURG 2 SE																																
FREDERICK POLICE BRKS												T	0	1.3	5	10.2	12	1.2	0	.6	1							19	13.8	56.14		
FREDERICK 3 E												1.0	0	10.5	11	.5	0	7.0	8													
MILLERS 4 NE																9.5	7		.0	-												
POTOMAC FILTER PLANT												T	0	10.0	-	M	.0	0														
ROCKVILLE 1 NE												1.7	6	9.0	10	.4	0	2.2	6													
TOWSON																																
UNIONVILLE												T	0	7.0	-		-	M	.0	-												
WESTMINSTER POLICE BRK												1.2	0	8.5	5	T	0		.3	0												
WOODSTOCK																																
												2.0	-	M	.0	-	T	0	1.5	-												
												T	0	8.5	8	T	0	1.0	2													
												1.3	0	10.0	7	T	0	1.0	3													
																								</								

SEE REFERENCE NOTES FOLLOWING STATION INDEX

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

MARYLAND AND
DELAWARE
JULY 1989

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											2.0	1	11.0	9	T	0	4.0	6									
EDGEMONT																											
FROSTBURG 2																											
HAGERSTOWN							3	0	3.3	2	11.8	12	24.2	20	7.6	2	10.2	15	2.6	1		1	0				
HANCOCK FRUIT LAB																											
ALLEGHENY PLATEAU 08																											
MC HENRY 2 NW																											
MERRILL							T	0	3.0	3	13.0	14	14.0	15	17.0	21	4.0	15	7.0	3	3.0	1					
OAKLAND 1 SE																											
SAVAGE RIVER DAM																											
DELAWARE																											
NORTHERN 01																											
NEWARK UNIVERSITY FARM																											
WILMINGTON WSO ARPT																											
WILMINGTON PORTER RSVR																											
SOUTHERN 02																											
DOVER																											
GEORGETOWN 5 SW																											
GREENWOOD 2 NE																											
LEWES																											
MILFORD 4 SE																											

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JULY 1989

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
MARYLAND																																		
SOUTHERN EASTERN SHORE 01																																		
ASSATEAGUE IS NATL SEA	07	MAX	85	87	92	92	97	87	87	94	86	92	93	99	83	81	82	81	76	76	76	80	88	88	92	86	92	85	85	89	89	84	82	86.6
		OBS																																
		MIN	59	62	68	68	73	69	63	62	65	71	72	73	72	65	65	70	64	64	62	69	71	71	72	67	70	71	71	68	64	61	63	67.3
		OBS																																
CRISFIELD SOMERS COVE	17	MAX	80	84	82	84	86	86	86	87	87	88	94	93	90	90	85	80	75	81	83	85	86	87	91	91	87	87	86	86	86	82	80	85.6
		OBS		***				***																										
		MIN	63	63	67	75	75	78	72	80	66	78	82	77	72	72	68	71	67	66	64	73	77	79	79	76	71	80	80	73	66	65	66	72.3
		OBS		***				***																										
PRINCESS ANNE	17	MAX																																M
		MIN																																M
SALISBURY	17	MAX																																M
		MIN	55	56	55	65	69	70	68	73	60	74	79	69	54	61	57	57	58	59	57	64	68	69	71	69	62	66	66	66	57	55	57	63.4
SALISBURY FAA ARPT	MID	MAX	81	85	82	83	88	85	90	86	87	91	94	85	77	85	84	75	76	77	84	87	89	91	93	89	90	90	88	86	82	78	79	85.1
		MIN	56	57	64	69	74	71	71	63	59	72	78	71	69	64	60	67	66	63	60	68	71	72	75	68	65	71	70	71	62	57	64	66.7
SNOW HILL 4 N	18	MAX	82	87	85	86	88	87	91	90	88	93	96	94	80	83	84	81	76	78	83	88	90	91	93	89	91	90	90	89	85	81	80	86.7
		MIN	53	54	63	67	72	73	70	73	55	72	78	73	70	66	57	66	64	63	59	68	68	70	73	71	61	70	68	70	61	55	64	66.0
CENTRAL EASTERN SHORE 02																																		
CAMBRIDGE WATER TRMT P	16	MAX	80	86	85	83	85	88	91	92	89	93	97	96	84	83	85	84	77	81	83	88	90	91	93	92	91	92	90	90	89	83	80	87.5
		MIN	58	62	60	71	72	70	71	77	63	72	79	73	71	65	64	66	64	65	64	65	71	75	76	76	68	73	70	69	64	60	63	68.3
DENTON 2 E	17	MAX																																M
		MIN																																M
ROYAL OAK 2 SSW	18	MAX	83	86	85	82	85	85	91	89	87	91	97	95	79	82	84	81	79	81	82	86	89	90	92	91	90	91	89	87	80	81	80	86.1
		MIN	59	66	73	73	72	73	73	74	64	74	81	70	69	66	62	66	66	64	65	71	72	76	76	74	69	76	72	73	64	59	65	69.6
VIENNA	18	MAX	82	87	80	85	88	92	92	98	92	95	98	95	86	84	87	87	79	82	87	89	93	95	96	92	95	94	91	90	89	86	80	89.2
		OBS														***												***						
		MIN	60	60	67	68	57	72	69	73	60	70	76	71	69	61	59	62	61	61	64	61	70	73	73	70	64	70	69	69	65	58	61	65.9
		OBS														***												***						
LOWER SOUTHERN 03																																		
LA PLATA 1 W	18	MAX	81	82	80	82	79	80	86	83	83	90	91	88	79	78	80	78	74	79	82	85	86	88	87	88	87	88	85	83	81	79	77	82.9
		MIN	55	57	66	64	71	70	70	69	63	70	74	70	67	65	61	66	65	62	66	73	71	72	73	73	71	71	66	69	61	58	55	66.6
MECHANICSVILLE 5 NE	19	MAX	82	83	82	82	81	83	88	85	86	90	94	87	77	82	82	73	75	80	81	86	87	91	90	89	90	90	87	85	81	80	73	83.9
		MIN	52	52	63	70	72	72	70	70	61	70	76	69	69	65	59	66	65	61	63	70	68	72	73	71	68	72	68	69	61	55	66	66.4
OWINGS FERRY LANDING	17	MAX	80	82	81	80	80	82	88	87	84	88	93	90	80	80	80	80	74	79	80	84	86	89	89	87	87	89	87	86	84	80	75	83.6
		MIN	52	60	62	68	69	69	68	67	60	67	72	69	67	62	58	64	62	60	61	69	67	71	71	70	67	69	67	69	60	58	66	65.2
PATUXENT RIVER	MID	MAX	81	85	85	82	86	87	92	84	88	93	96	85	80	82	86	77	80	82	80	88	91	88	90	90	91	94	91	88	79	82	79	85.9
		MIN	60	65	70	74	72	71	73	66	66	74	80	74	67	66	67	67	65	65	66	74	75	75	76	71	68	73	72	70	64	61	66	69.5
TALL TIMBERS	17	MAX																																M
		MIN																																M
UPPER SOUTHERN 04																																		
ANNAPOLIS POLICE BRKS	17	MAX	84	87	85	84	83	84	94	93	91	94	98	97	79	86	86	89	80	83	84	88	90	91	93	93	92	91	92	91	83	84	79	88.0
		MIN	55	60	66	71	67	67	67	63	61	67	76	71	63	61	58	61	61	61	63	67	68	70	70	71	69	72	67	67	61	57	61	65.1
BALTIMORE WSO ARPT	MID	MAX	82	86	84	80	79	83	90	85	88	92	94	83	73	82	82	73	79	82	81	85	86	90	94	89	93	93	89	86	81	78	69	84.2
		MIN	57	62	67	71	71	70	72	66	63	69	77	72	65	63	62	66	64	63	64	70	72	74	74	73	74	73	70	71	62	60	65	67.8
BELTSVILLE	08	MAX	82	84	86	86	81	80	85	93	87	93	93	99	84	71	85	84	72	81	83	82	89	88	92	94	91	90	95	90	87	81	79	86.0
		MIN	53	58	65	64	70	70	68	67	62	69	74	71	68	63	59	68	63	61	62	68	69	73	71	71	71	72	69	70	57	56	65	66.0
COLLEGE PARK	09	MAX	82	85	86	85	81	80	85	92	86	90	94	96	85	72	84	85	73	80	85	85	87	90	92	92	93	92	95	90	83	80	88	86.2
		MIN	56	61	69	73	72	71	72	72	64	72	81	73	70	65	61	71	65	63	65	72	71	75	75	74	74	77	72	72	60	59	59	68.9

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DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
JULY 1989

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
DALECARLIA RESVR DC	17	MAX MIN OBS	85 52 58	86 58 58	86 58 58	83 66 66	82 67 66	83 66 66	92 66 66	90 64 59	89 59 79	95 63 69	94 70 69	94 69 69	84 62 62	82 60 56	85 63 59	82 63 58	80 59 58	83 68 65	84 68 65	90 65 65	90 65 65	94 68 69	92 69 67	95 69 67	93 69 64	94 69 64	90 64 62	89 64 62	88 54 62	81 62 61	78 61 63	87.5 63.3	
GLENN DALE BELL STN	16	MAX OBS MIN	82 50 58	82 58 63	87 63 66	86 66 68	81 68 69	79 67 65	90 67 65	90 65 60	88 67 68	92 67 66	95 76 68	96 66 63	83 66 64	83 64 52	84 64 59	82 70 51	78 69 66	83 83 66	86 69 66	87 66 66	88 72 69	93 70 69	93 69 67	91 69 67	93 69 67	95 70 55	94 70 55	87 55 66	82 55 66	80 66 64	86.9 64.3		
LAUREL 3 W	MID	MAX MIN	85 54	87 69	86 70	79 65	79 64	84 69	90 65	86 66	89 63	93 69	94 74	85 67	79 58	83 63	84 68	75 58	79 63	89 64	83 59	87 64	88 65	91 69	93 73	91 69	92 68	94 77	95 65	88 68	82 55	77 63	68 60	85.6 65.3	
NATIONAL ARBORETUM DC	08	MAX OBS MIN	82 53 59	86 59 63	87 63 68	88 68 67	84 67 68	81 67 68	86 67 60	95 60 71	86 60 71	90 60 71	93 67 71	97 67 71	85 67 61	77 61 56	84 61 56	73 61 59	81 62 66	84 66 66	86 69 66	89 66 66	91 69 66	93 71 69	94 69 69	93 68 70	93 68 70	96 66 66	94 65 65	90 56 54	83 54 59	81 59 62	87.3 64.0		
UPPER MARLBORO 3 NNW	08	MAX MIN	81 52	83 60	86 62	86 67	82 67	80 69	83 70	91 66	85 60	89 66	93 73	96 70	85 67	72 62	83 56	84 65	71 62	79 59	82 60	82 65	87 66	88 68	91 70	93 69	91 67	91 70	93 66	90 66	87 55	81 55	81 62	85.4 64.3	
NORTHERN EASTERN SHORE	05																																		
CHESTERTOWN	23	MAX MIN	86 58	88 63	86 67	80 72	78 71	82 71	91 72	85 69	89 64	92 72	95 78	85 70	72 64	83 63	86 62	73 65	81 64	84 63	86 64	88 69	85 71	92 72	92 75	91 73	92 71	92 72	90 72	89 73	82 61	81 60	70 63	85.4 67.9	
MILLINGTON 1 SE	18	MAX OBS MIN OBS	83 55 58	85 58 63	84 63 67	82 67 67	78 67 71	82 71 71	90 70	89 69	88 60	89 69	94 77	93 68	74 64	82 62	84 59	81 67	79 63	81 61	81 59	86 60	86 69	89 71	91 73	91 71	89 67	91 70	89 69	88 71	86 58	80 57	69 62	85.0 65.4	
NORTHERN CENTRAL	06																																		
ABERDEEN PHILLIPS FLD	16	MAX MIN			83 64		75 71	78 71	91 71		88 71	92 69	92 79	92 79	81 67	80 61			79 64	81 66	82 64	85 70	85 70		90 69		90 72	90 72	90 71	89 72			69 65	M M	
BALTIMORE WSO CITY	MID	MAX MIN	86 67	90 69	88 74	81 73	77 73	84 73	97 75	88 76	95 72	98 76	101 85	87 77	78 65	87 66	87 68	77 67	81 65	84 69	84 72	88 70	85 75	91 74	98 80	93 80	93 79	94 78	95 75	93 72	85 64	82 68	71 66	87.7 72.4	
BENSON POLICE BARRACKS	17	MAX MIN	86 54	88 57	88 65	82 67	82 65	81 68	92 65	92 70	90 60	93 69	96 78	96 67	83 62	85 61	84 59	85 61	82 59	84 62	86 66	87 67	89 68	96 70	92 70	92 69	95 71	94 68	90 69	89 68	84 56	70 60	87.5 64.6		
BOYDS 2 NW	18	MAX MIN	82 57	84 61	83 66	81 70	76 69	80 69	87 63	87 66	86 62	91 72	93 78	90 71	80 64	81 62	81 61	81 59	76 60	81 65	82 68	84 69	85 69	88 72	89 72	89 72	90 72	91 72	87 67	87 68	79 57	75 60	71 63	83.8 66.0	
CATOCTIN MOUNTAIN PARK	17	MAX MIN OBS	76 59 59	79 63 66	78 66 66	78 67 65	70 65 65	73 65 65	82 66 64	82 66 63	79 65	86 65	87 65	85 66	75 62	73 57	74 58	72 57	74 62	72 58	78 60	84 60	85 66	78 66	82 67	84 70	81 68	84 71	84 71	81 71	79 68	75 55	71 59	78.2 63.7	
CLARKSVILLE 3 NNE	17	MAX MIN	85 51	86 56	85 64	84 68	78 70	80 70	90 66	89 67	89 59	94 67	94 78	93 68	80 66	81 62	83 56	82 66	80 62	82 58	87 60	87 68	91 67	93 73	90 71	92 70	94 72	91 67	91 68	90 68	87 54	79 54	72 63	86.1 64.8	
CONOWINGO DAM	MID	MAX MIN OBS	84 49 44	87 59 44	85 63 65	80 65 66	75 66 67	79 67 68	92 68	88 66	91 59	95 65	96 71	82 66	71 60	86 60	86 60	72 63	84 60	85 61	82 60	88 66	87 67	83 67	98 72	92 68	89 69	95 70	91 68	92 67	85 58	82 56	70 60	85.5 63.7	
DAMASCUS 2 SW	19	MAX MIN	83 55	85 61	82 66	80 69	74 69	80 68	88 68	82 65	85 62	91 66	92 77	89 70	74 63	80 60	82 59	71 64	77 60	80 63	85 67	88 69	90 73	90 72	90 69	90 72	91 72	88 67	85 68	80 55	75 59	67 62	83.1 65.5		
EMMITSBURG 2 SE	17	MAX OBS MIN OBS	81 52 58	84 58 65	82 65 68	82 68 69	79 66 69	89 66 66	88 66 60	86 68 60	91 66 66	93 66 66	90 69 69	80 66 66	79 64	79 62	79 56	78 66	81 62	84 66	84 66	87 67	89 70	89 68	87 71	87 67	83 71	91 67	81 67	85 68	81 54	79 60	67 60	83.9 65.0	
FREDERICK POLICE BRKS	17	MAX MIN	84 56	87 64	86 56	85 70	83 70	80 69	90 70	88 70	89 65	96 69	97 80	95 73	83 65	83 62	85 60	84 66	77 62	84 61	84 65	85 69	88 70	90 70	92 74	93 72	93 74	95 72	96 72	95 59	90 60	82 60	74 61	87.5 67.2	
MILLERS 4 NE	18	MAX MIN	82 53	84 59	82 65	80 69	72 67	78 68	87 67	86 69	84 60	89 67	91 76	89 68	79 63	78 62	79 56	78 64	77 60	81 58	80 62	84 68	82 69	87 70	87 70	89 68	87 70	90 67	87 69	84 54	83 56	75 62	65 64	82.5 64.7	
ROCKVILLE 1 NE	17	MAX MIN	84 56	84 66	84 70	80 72	78 72	82 71	88 71	83 69	85 64	91 70	93 83	88 73	73 66	80 65	81 62	74 63	77 62	80 62	85 65	87 70	90 71	90 74	89 75	89 74	91 76	91 74	87 70	84 73	74 60	76 60	68 66	83.0 68.6	
TOWSON	18	MAX MIN	83 58	86 61	83 66	82 69	81 65	81 68	90 65	89 70	89 63	93 67	94 76	93 69	79 61	82 60	83 60	82 63	79 59	83 62	82 63	85 65	83 68	89 68	91 71	91 70	90 71	92 72	90 67	90 70	84 58	79 60	70 61	85.4 65.4	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES(°F)

MARYLAND AND
DELAWARE
JULY 1989

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
UNIONVILLE	18	MAX MIN	85 50	85 57	85 65	81 68	76 69	82 69	91 67	91 65	87 58	93 65	95 72	93 67	79 65	82 61	83 55	80 66	80 62	82 56	85 59	87 69	87 68	90 74	91 70	92 67	90 69	93 70	90 66	88 68	81 51	80 53	69 63	85.6 64.0
WESTMINSTER POLICE BRK	17	MAX OBS MIN	84 53 56	87 56	87 58	84 60	75 62	80 62	89 65	89 66	87 61	91 63	94 74	94 65	80 59	79 56	83 54	81 61	79 55	84 56	82 56	87 64	86 64	96 67	91 67	92 67	92 68	92 68	89 63	91 65	84 53	78 54	67 58	85.6 61.3
WOODSTOCK	18	MAX MIN	85 53	87 58	84 65	83 70	76 69	81 69	90 67	90 70	89 60	92 67	95 75	94 60	79 64	83 62	84 58	82 66	80 62	83 59	83 61	87 69	84 70	89 72	92 71	92 70	91 71	94 72	90 68	88 69	82 56	81 56	70 63	85.8 65.5
APPALACHIAN MOUNTAIN	07																																	
CUMBERLAND 2	18	MAX MIN	86 58	85 62	86 69	82 68	80 68	82 67	90 65	87 60	80 60	91 66	94 71	91 69	80 62	81 56	82 58	78 62	79 61	83 61	84 67	85 68	85 69	91 69	93 70	92 70	92 72	89 67	85 59	82 59	76 62	67 63	84.6 64.6	
FROSTBURG 2	07	MAX MIN	73 49	78 54	79 59	77 64	71 63	73 64	76 62	82 65	77 58	77 58	83 72	85 65	76 65	68 59	73 53	74 52	64 57	72 55	75 56	77 63	75 64	78 66	84 65	83 64	84 66	85 66	83 64	78 65	77 53	73 52	67 58	76.7 60.5
HAGERSTOWN	18	MAX MIN	79 64	79 80	78 67	74 69	73 67	78 67	84 65	83 68	80 58	85 60	89 60	87 67	79 64	79 62	74 55	71 59	73 61	78 66	76 69	79 68	83 69	85 66	84 69	84 68	87 73	84 70	79 67	76 60	77 60	79 60	79.8 M	
HANCOCK FRUIT LAB	16	MAX MIN	79 50	85 59	87 61	84 66	82 69	80 69	81 65	89 68	82 58	83 60	91 60	94 67	84 64	74 62	81 55	82 59	69 62	79 60	82 62	84 64	86 67	85 70	89 68	90 68	93 71	93 71	91 66	88 66	87 61	86 59	71 58	84.2 63.4
ALLEGHENY PLATEAU	08																																	
MC HENRY 2 NW	08	MAX MIN	80 54	83 58	81 61	82 63	71 62	73 63	82 63	82 63	82 60	86 61	82 68	80 63	80 63	70 55	68 52	80 55	74 58	73 55	84 56	82 61	80 62	85 65	85 65	87 67	86 66	84 67	84 64	75 61	76 50	77 51	72 59	79.5 60.4
OAKLAND 1 SE	17	MAX MIN	78 50	81 54	78 61	76 63	72 63	81 65	82 61	82 65	78 56	82 60	84 73	84 63	79 66	73 59	73 50	73 50	71 59	75 60	78 61	79 59	83 63	83 64	84 64	85 65	84 65	83 67	84 65	77 63	76 55	73 61	73 61	78.5 60.2
SAVAGE RIVER DAM	08	MAX MIN	78 50	82 55	84 60	81 64	77 64	74 65	81 64	95 66	81 58	77 64	88 75	89 66	80 67	74 63	76 53	77 53	68 60	75 58	77 58	78 64	80 65	81 67	87 64	90 65	87 66	89 67	83 67	80 67	79 56	77 56	70 58	80.5 62.1
DELAWARE																																		
NORTHERN	01																																	
NEWARK UNIVERSITY FARM	17	MAX MIN	84 55	87 58	86 67	82 67	75 67	81 69	90 70	89 70	89 59	92 68	92 77	92 68	80 62	82 60	83 58	83 65	81 62	83 61	83 61	85 67	86 68	87 68	91 69	92 69	92 69	94 72	94 71	89 75	87 59	81 59	72 62	85.9 65.5
WILMINGTON WSO ARPT	MID	MAX MIN	82 59	87 63	85 70	81 71	76 69	82 71	91 71	84 66	89 71	92 71	93 78	82 71	73 64	83 62	82 63	74 66	81 63	83 65	82 65	84 70	80 70	89 69	93 74	92 73	90 72	96 72	89 72	87 66	80 59	80 62	69 64	84.2 67.5
WILMINGTON PORTER RSVR	MID	MAX MIN	83 62	86 62	84 69	81 69	74 67	80 69	89 70	80 67	90 63	91 70	91 78	80 69	70 60	81 62	83 63	71 64	80 62	81 64	81 63	85 70	77 68	87 68	90 72	91 72	90 70	92 73	89 71	87 68	78 60	80 63	80 63	83.3 66.8
SOUTHERN	02																																	
DOVER	17	MAX MIN	86 58	88 62	89 67	85 70	80 70	73 66	89 69	86 68	88 69	93 72	97 67	94 70	80 63	73 60	85 63	82 64	81 67	81 66	84 64	84 68	85 70	92 72	97 74	96 72	97 71	94 70	94 71	94 71	92 71	82 59	76 66	87.0 67.4
GEORGETOWN 5 SW	08	MAX MIN	85 56	86 58	87 55	84 63	83 69	88 73	85 70	84 58	90 67	88 70	92 76	95 70	83 65	72 60	82 60	85 64	74 64	78 61	77 59	84 68	88 68	87 70	93 73	93 72	90 63	91 70	91 68	88 70	88 69	84 55	81 61	85.7 65.6
GREENWOOD 2 NE	18	MAX MIN	83 57	86 58	82 63	82 69	87 69	83 74	89 71	86 68	88 59	91 71	94 79	92 68	74 68	84 59	85 60	72 65	77 65	80 61	87 68	84 69	90 70	93 74	90 72	90 72	87 65	90 71	87 69	86 70	81 59	80 56	73 63	84.8 66.1
LEWES	17	MAX MIN	82 61	85 61	85 67	83 71	87 72	82 74	91 71	91 74	89 63	93 73	92 81	91 71	79 67	80 61	82 63	81 66	75 66	76 65	80 62	88 71	86 72	90 71	90 74	89 74	89 71	91 71	90 71	88 72	88 68	82 62	75 65	85.5 68.9
MILFORD 4 SE	17	MAX OBS MIN OBS	80 57	87 60	85 64	83 69	90 71	81 73	91 70	90 66	89 60	91 71	92 80	88 71	77 67	82 65	81 60	79 64	76 65	73 65	79 59	88 68	87 69	90 70	90 74	88 72	89 66	89 71	89 69	89 69	87 64	81 56	73 63	85.0 66.7

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL HEATING DEGREE DAYS

MARYLAND AND
DELAWARE
JULY 1989

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	0B			333	458B	801	740			408	112	0	M 2852	
CRISFIELD SOMERS COVE		0	2B	291	399	782	718	731	558B	269B	55	0	M 3805	3902
PRINCESS ANNE	5	0B	36	423	446	816		707B	571			0	M 3004	4298
SALISBURY	1	0	22	358	420	788	723	733	582	313	101	0	M 4041	4016
SALISBURY FAA ARPT	2	0	36	393	456	843	763	767	609	360	118	0	M 4347	4411
SNOW HILL 4 N	3	0	31	394	457	810	732	731	579	338	111	0	M 4186	4239
CENTRAL EASTERN SHORE 02														
CAMBRIDGE WATER TRMT P	0	0	10	316	438	781	761	755	616B	289	86	0	B 4052	4331
DENTON 2 E	0	0	41	386	487	844	807	755	647B	340	106	0	M 4413	4446
ROYAL OAK 2 SSW	0	0	27	339	458	799	778	745	612	327	99	0	M 4184	4192
VIENNA		0B	19	367B	477	816	778	748		310	79	0	M 3594	4140
LOWER SOUTHERN 03														
LA PLATA 1 W	4	0	38	393	494	824	785	746	592	323	144	0	M 4343	4384
MECHANICSVILLE 5 NE	5	0	53	436	520	855	807	761	617	348	138	0	M 4540	
OWINGS FERRY LANDING	4	0	31	390	505	844	816	760	630	340	119B	0	B 4439	4384
PATUXENT RIVER	0	0	20	376	492	831	768	740	618	334	114	0	M 4293	
TALL TIMBERS													M	
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	0	0	17B	385	536	850	824	768	657	358	145	0	B 4540	
BALTIMORE WSO ARPT	2	0	39	424	504	882	834	792	663	374	145	0	M 4659	4706
BELTSVILLE	5	0	52	439	573	908	862	847B	671	398B	167	0	B 4922	5053
COLLEGE PARK	0	0	39	395	542	876	843	797	674B	354	146	0	B 4666	4455
DALECARLIA RESVR DC	5B	0	42	429	547	881	887	787	707B	382	167	0	B 4834	4425
GLENN DALE BELL STN	7	0		444	547		865	768	685B	378	173	1	M 3868	4649
LAUREL 3 W	0	0	43B	437	543	908	866	838	706	370	166	0	B 4877	4489
NATIONAL ARBORETUM DC	0	0	64	449	588	951	893			371	158	0	M 3474	4267
UPPER MARLBORO 3 NNW	8	0	69	464	582	925	899	838		432	178	1	M 4396	
NORTHERN EASTERN SHORE 05														
CHESTERTOWN	0	0	28	370	504	887	850	810	670	361	122	0	M 4602	4600
MILLINGTON 1 SE	3	0	47B	427	518	874	855	772	661	367	117	0	B 4641	4837
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FLD	4B	0	43B	409B					643B	334B	116	0	M 1549	
BALTIMORE WSO CITY	0	0	19	309	438	820	767	782	605	233	77	0	M 4050	4083
BENSON POLICE BARRACKS	2	0	35	410	559	873	834	803	668	343	126	0	M 4653	4998
BOYDS 2 NW	4	0B	52	408	527	882	845	829B	675	364	171	0	B 4757	
CATOCTIN MOUNTAIN PARK	9	4	106	501	609	1043B	893	919	818B	459	218	8	B 5587	
CLARKSVILLE 3 NNE	8	0	68B	466	588	904	852	799	684	403	151	1	B 4924	
CONOWINGO DAM	0	0	66	465	590	964	943	882	755B	433	183	1	B 5282	5206
DAMASCUS 2 SW	6	0	59	444	549	914	863	843	703	393	184	2	M 4960	
EMMITSBURG 2 SE	5	2	88	495	617	943	887	843	721	413	181	3	M 5198	
FREDERICK POLICE BRKS	0	0	32	375	490	847	812	773	650	317	134	0	M 4430	
MILLERS 4 NE	5	2	76	468	572	942	895	878	736	434	183	3	M 5194	
ROCKVILLE 1 NE	4	0	40	399	497B	840	752	773	679	384	169	0	B 4537	4663
TOWSON	3	0	38	414	554	862	839	836	745	390	155	0	M 4836	
UNIONVILLE	6	0	116B	527	619	1012	949	886	722	437	184	2	B 5460	5415
WESTMINSTER POLICE BRK	10	2	52	492	582	942	900	899	758	436	188B	9	B 5270	5250
WOODSTOCK	5	0	50	443	547	885	851	810	682	378	143	0	M 4794	5027
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	4	2	71	492	567	939	872B	861	684	424	194	2	B 5112	5106
FROSTBURG 2	23	22	184	628	709	1096	1008	1028B	864	628	348	48	B 6586	
HAGERSTOWN	4	0	43		543	919B	868	844	715	374	174	2	M 4486	5086

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL HEATING DEGREE DAYS

MARYLAND AND
DELAWARE
JULY 1989

STATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	SEASONAL NORM
HANCOCK FRUIT LAB	11	2	98	504	635	963	915	893	774	481	218	7	5501	5573
ALLEGHENY PLATEAU 08														
MC HENRY 2 NW	24	15	183	670	726	1141	1015	1087	829	623	364	59	6736	
OAKLAND 1 SE	29	18	177B	635	663	1032	941	1009	817B	604	343	46	6314	6599
SAVAGE RIVER DAM	19	10	142	592	701	1046	997	985	797	567	294	27	6177	6335
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM	7	0	49	438	537	893	884	830	695	399	136	0	4868	4906
WILMINGTON WSO ARPT R	3	0	52	434	541	923	893	854	710	395	142	0	4947	4986
WILMINGTON PORTER RSVR	2	0	49	431	528	920	871	844	726	402	159	0	4932	5127
SOUTHERN 02														
DOVER	0	0	21	380	453	803	773	749	687B	381	122	0	4369	4356
GEORGETOWN 5 SW	4B	0	46	398	500	876	794	780	683	401	144	1	4627	4571
GREENWOOD 2 NE	5	0	31B	399	467	851	799	781	626	357	131	0	4447	
LEWES	1	0	20	329	425	791B	744	749	627	320		0	4006	4505
MILFORD 4 SE	0	0	37	369	459	825	787	772	643	355	122B	0	4369	4457

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

MARYLAND AND
DELAWARE
JULY 1989

STATION		DAY OF MONTH																															TOTAL OR AVG	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MARYLAND																																		
UPPER SOUTHERN	04																																	
BELTSVILLE		WIND	10	15	8	18	5	4	0	25	31	26	47	33	13	14	29	19	33	4	15	52	13	15	8	11	8	13	21	30	57	27	24	
		EVAP	14	35	20	14	17	-	9	30	29	26	40	34	18	3	29	25	10	13	23	20	21	32	10	22	21	9	25	32	31	5	23	
		MAX	95	96	98	90	81	81	87	97	94	94	96	100	91	75	91	95	76	87	95	89	97	95	101	101	98	94	101	95	92	92	91	
		MIN	59	65	70	70	72	72	73	76	68	72	71	74	71	66	66	68	65	64	68	69	71	80	75	76	76	75	72	72	64	64	65	
UPPER MARLBORO 3 NNW																																		
		WIND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		EVAP	22	25	22	13	7	7	9	21	24	18	22	26	18	6	23	23	9	11	20	20	20	19	18	24	17	21	47	51	26	23	11	
		MAX	66	70	74	74	85	74	78	88	94	76	86	80	84	76	88	88	74	70	72	72	74	78	78	80	76	80	98	96	78	70	82	
		MIN	60	62	66	68	70	70	70	70	66	70	72	74	72	64	64	64	62	62	66	68	66	72	74	74	64	74	68	66	64	62	64	
ALLEGHENY PLATEAU																																		
SAVAGE RIVER DAM	08																																	
		WIND	22	22	11	13	7	16	20	36	33	24	100	49	8	20	40	9	17	18	19	17	13	13	19	16	14	14	18	54	48	17	20	
		EVAP	18	15	19	9	7	5	-	20	35	-	-	-	-	4	17	6	25	-	4	16	11	-	15	7	27	19	11	5	15	2	25	-
		MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DELAWARE																																		
NORTHERN	01																																	
NEWARK UNIVERSITY FARM		WIND	12	16	12	10	4	14	14	26	19	38	43	21	27	23	25	24	45	20	16	29	55	46	16	13	17	17	24	42	37	9	46	
		EVAP	12	30	28	1	-	10	3	46	19	31	31	16	8	15	23	-	14	21	20	-	36	10	31	18	5	29	16	29	44	-	18	
		MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SOUTHERN																																		
GEORGETOWN 5 SW	02																																	
		WIND	65	19	27	74	42	48	55	42	53	76	104	57	38	65	27	37	84	31	35	48	59	50	31	27	19	59	36	67	49	60	50	
		EVAP	32	13	17	28	26	21	23	22	21	25	29	30	-	38	26	22	-	-	-	24	15	40	14	29	36	51	35	31	23	-		
		MAX	91	95	96	88	86	93	92	89	100	96	94	98	89	76	90	93	74	82	89	93	94	94	98	100	100	99	100	95	93	89	88	
		MIN	64	65	64	67	70	75	74	63	65	66	71	72	69	66	67	69	65	66	68	70	75	73	77	77	74	73	72	74	71	65	64	

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
JULY 1989

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER	
							LOCAL STD TIME					
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)		
MARYLAND												
ABERDEEN PHILLIPS FLD	001506		HARFORD	39 28	76 10W	57	16	16		C	H	ROSS AVIATION INC
ANNAPOLIS POLICE BRKS	019304		ANNE ARUNDEL	38 59	76 30W	30	17	17			H	ANNAPOLIS POLICE BRKS
ASSATEAGUE IS NATL SEA	033301		WORCESTER	38 14	75 8W	7	07	07			H	NATIONAL PARK SERVICE
BALTIMORE WSO ARPT	044650	R	ANNE ARUNDEL	39 11	76 40W	148	MID	MID		C	H	NATL WEATHER SERVICE
BALTIMORE WSO CITY #	047000	R	BALTIMORE CI	39 17	76 37W	14	MID	MID		C	H	OCTI COMMANDING OFFICER
BELTSVILLE	070004		PRINCE GEORG	39 2	76 53W	120	08	08	08	C	H	US DEPT OF AGRICULTURE
BENSON POLICE BARRACKS	073206		HARFORD	39 30	76 23W	365	17	17			H	MARYLAND STATE POLICE
BOYDS 2 NW	103206		MONTGOMERY	39 13	77 20W	581	18	18			H	HUNTER F STALEY
BRIGHTON DAM	112506		MONTGOMERY	39 12	77 1W	331		MID				WASH SUB SANY COMM
CAMBRIDGE WATER TRMT P	138502		DORCHESTER	38 34	76 4W	10	16	16			H	WASTEWATER TRMT PLANT
CATOCTIN MOUNTAIN PARK	153006		FREDERICK	39 39	77 29W	1610	17	17		C	H	CATOCTIN MOUNTAIN PARK
CHESTERTOWN	175005		KENT	39 13	76 4W	39	23	23			H	THOMAS W ELIASON JR
CLARKSVILLE 3 NNE	186206		HOWARD	39 15	76 56W	365	17	17			H	UNIVERSITY OF MARYLAND
COLLEGE PARK	199504		PRINCE GEORG	38 59	76 57W	90	09	09		C	H	UNIVERSITY OF MARYLAND
CONOWINGO DAM	206006		HARFORD	39 39	76 10W	39	MID	MID			H	SUSQUEHANNA ELECTRIC CO
CRISFIELD SOMERS COVE	221501		SOMERSET	37 59	75 52W	8	17	17			H	SOMERS COVE MARINA
CUMBERLAND 2	228207		ALLEGANY	39 38	78 45W	730	18	07			H	TIMOTHY B THOMAS
DALECARLIA RESVR DC	232504		DIS COLUMBIA	38 56	77 7W	151	17	17				U S CORPS OF ENGINEERS
DAMASCUS 2 SW	233506		MONTGOMERY	39 16	77 14W	722	19	19			H	RICHARD W SCHWERDT
DENTON 2 E	252302		CAROLINE	38 53	75 48W	49	17	17			H	ARTHUR REINHOLD
EDGE MONT	277007		WASHINGTON	39 40	77 33W	905		07				JOHN W HARNE
EMMITSBURG 2 SE	290606		FREDERICK	39 41	77 18W	420	17	17			H	MRS LUCILLE K BEALE
FREDERICK POLICE BRKS	334806		FREDERICK	39 25	77 26W	381	17	17			H	MARYLAND STATE POLICE
FREDERICK 3 E	335506		FREDERICK	39 24	77 22W	385		07				MISS I MARY STALEY
FROSTBURG 2	341507		ALLEGANY	39 40	78 56W	2172	07	07			H	LEE K CLOSE
GLENN DALE BELL STN	367504		PRINCE GEORG	38 58	76 48W	151	16	16			H	USDA PLT INTRODUCT STN
HAGERSTOWN	397507		WASHINGTON	39 39	77 44W	659	18	18			H	HAGERSTOWN RESERVOIR
HANCOCK FRUIT LAB	403007		WASHINGTON	39 42	78 11W	428	16	16		C	H	SHARPSBURG RESEARCH CTR
LA PLATA 1 W	508003		CHARLES	38 32	77 0W	140	18	18			H	C RUSSELL LEVERING
LAUREL 3 W	511104		PRINCE GEORG	39 6	76 54W	400	MID	MID				WASH SUB SANY COMM
MC HENRY 2 NW	583208		GARRETT	39 35	79 22W	2680	08	08		C	H	JOSEPH F JOHANNING
MECHANICSVILLE 5 NE	586503		ST MARYS	38 27	76 41W	100	19	19			H	SANDRA J HASTINGS
MERRILL	589408		GARRETT	39 36	79 5W	1791		09			H	DELWOOD E MERRILL
MILLERS 4 NE	593406		CARROLL	39 43	76 48W	860	18	18		C	H	ROBERT P MILLER
MILLINGTON 1 SE	598505		KENT	39 16	75 52W	30	18	18				HOWARD L HARVEY
NATIONAL ARBORETUM DC	635004		DIS COLUMBIA	38 54	76 59W	49	08	08			H	U S NATL ARBORETUM
OAKLAND 1 SE	662008		GARRETT	39 24	79 24W	2421	17	17			H	BEA J CROSCO
OWINGS FERRY LANDING	677003		CALVERT	38 41	76 40W	160	17	17			H	JAMES C RASMUSSEN
PATUXENT RIVER	691503		ST MARYS	38 20	76 25W	38	MID	MID		C	H	NAVAL WEATHER SERVICE
POTOMAC FILTER PLANT	727206		MONTGOMERY	39 2	77 15W	269		08				POTOMAC WATER FILT PLT
PRINCESS ANNE	733001		SOMERSET	38 13	75 41W	20	17	17				UNIV OF MD EASTERN SHORE
ROCKVILLE 1 NE	770506		MONTGOMERY	39 6	77 6W	440	17	17			H	WASHINGTON GAS AND LIGHT
ROYAL OAK 2 SSW	780602		TALBOT	38 43	76 11W	10	18	18			H	JOHN L SWAINE JR
SALISBURY	800001		WICOMICO	38 22	75 35W	10	17	17				CITY OF SALISBURY
SALISBURY FAA ARPT #	800501		WICOMICO	38 20	75 31W	48	MID	MID			H	FAA
SAVAGE RIVER DAM	806508		GARRETT	39 31	79 8W	1495	08	08		08	C	US CORPS OF ENGINEERS
SNOW HILL 4 N	838001		WORCESTER	38 14	75 23W	30	18	18			H	CURTIS E SHOCKLEY
TALL TIMBERS	875703		ST MARYS	38 10	76 33W	12	17	17			H	RICHARD A EVERETT
TOWSON	887706		BALTIMORE	39 23	76 34W	390	18	18				BENDIX FRIEZ
UNIONVILLE	903006		FREDERICK	39 27	77 11W	430	18	18			H	RICHARD GETZANDANNER
UPPER MARLBORO 3 NNW	907004		PRINCE GEORG	38 52	76 47W	98	08	08		08	H	UNIVERSITY OF MARYLAND
VIENNA	914002		DORCHESTER	38 29	75 50W	10	18	18				DELMARVA POWER & LIGHT
WESTMINSTER POLICE BRK	944006		CARROLL	39 33	76 58W	765	17	17			H	MARYLAND STATE POLICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
JULY 1989

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER
							LOCAL STD TIME				
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52W	459	18	18		H	JOHN A HILTZ
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	08C	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			BOARD OF PUBLIC WORKS
MIDDLETOWN 3 E	5852	01	NEW CASTLE	39 27	75 40W	55	17	17			INACTIVE 09/01/88
MILFORD 4 SE	5915	02	SUSSEX	38 54	75 28W	30	17	17		H	DAVID S SCHLOTT
NEWARK UNIVERSITY FARM	6410	01	NEW CASTLE	39 40	75 44W	90	17	17	17C	H	UNIV OF DEL AGRIC FARM
WILMINGTON WSO ARPT	R 9595	01	NEW CASTLE	39 40	75 36W	79	MID	MID		C HJ	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
JULY 1989

DEFINITIONS

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

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

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

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

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

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

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

SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

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

SYMBOLS AND LETTERS USED IN THE DATA TABLES

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

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

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

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

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

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

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

// Rain gage equipped with a windshield.

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

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

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

R Amounts from recording rain gage.

T Trace. An amount too small to measure.

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

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

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

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

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NATIONAL CLIMATIC DATA CENTER
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ASHEVILLE, NC 28801-2696

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

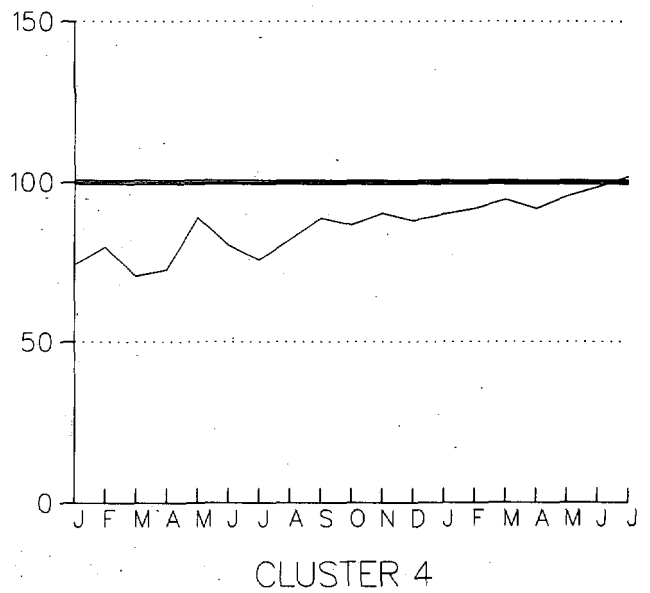
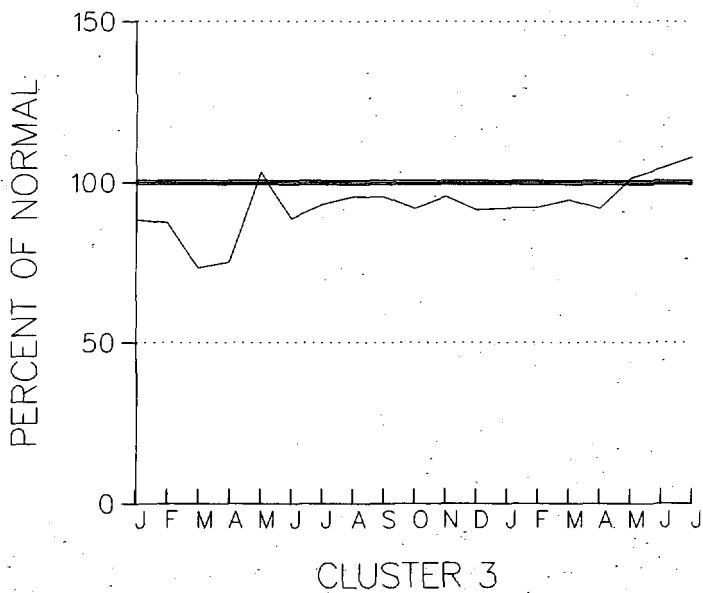
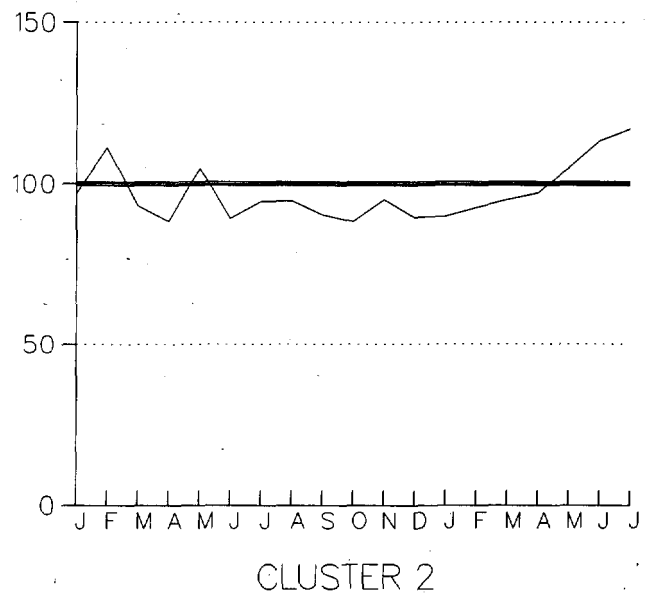
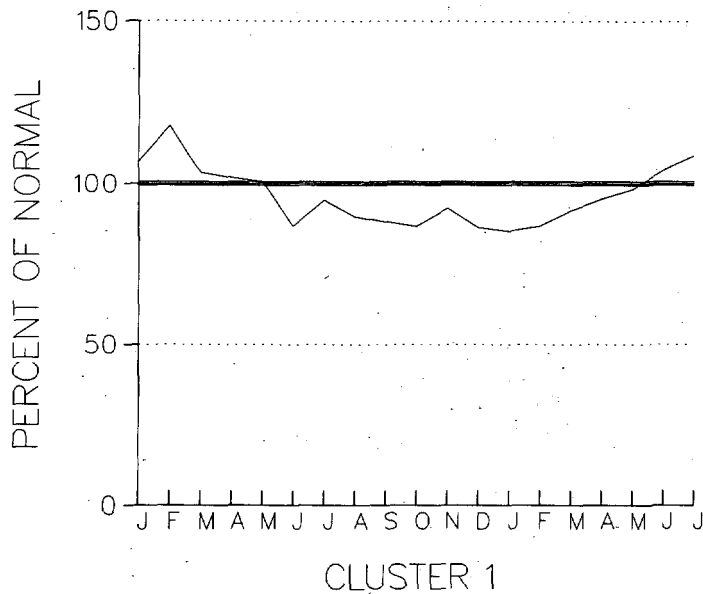
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980) FOR THE LAST 19 MONTHS ENDING JULY 1989 MARYLAND

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

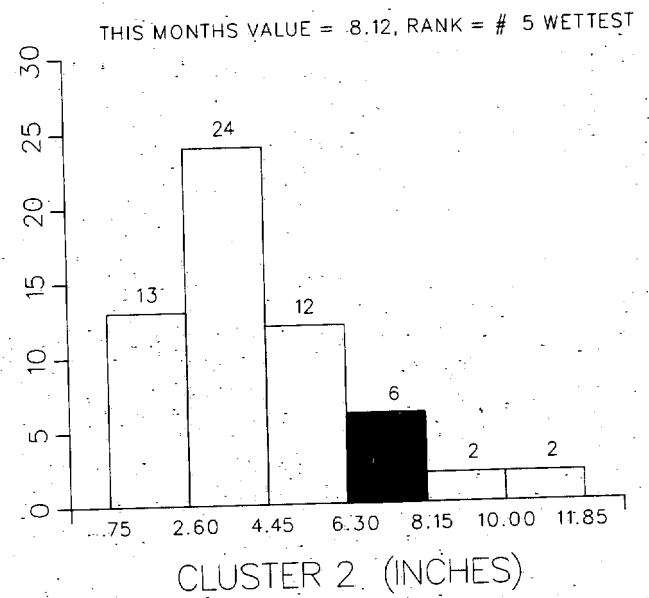
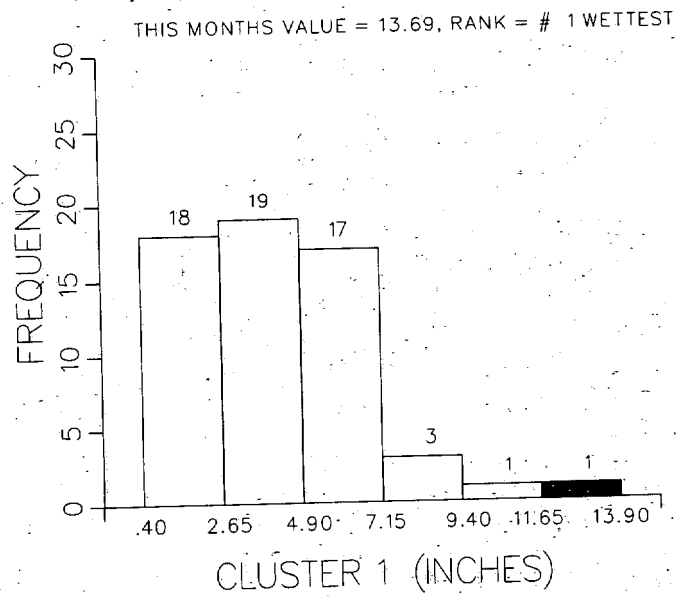
CLUSTER 4 - DIVISION(S):
ALLEGHENY PLATEAU 08



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

CLUSTER 1 -DIVISION(S):
NORTHERN 01

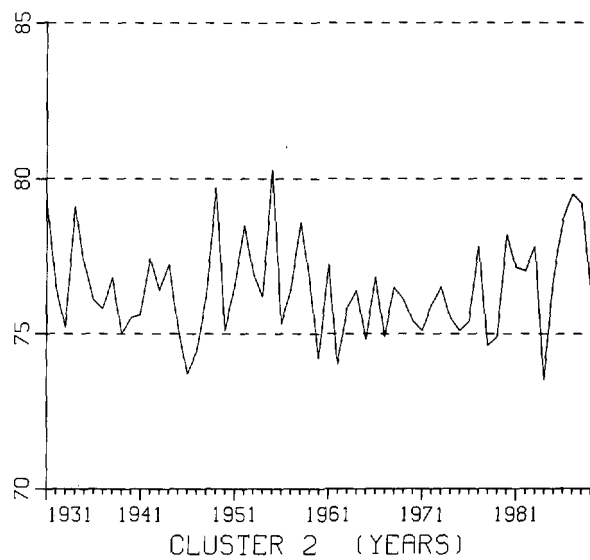
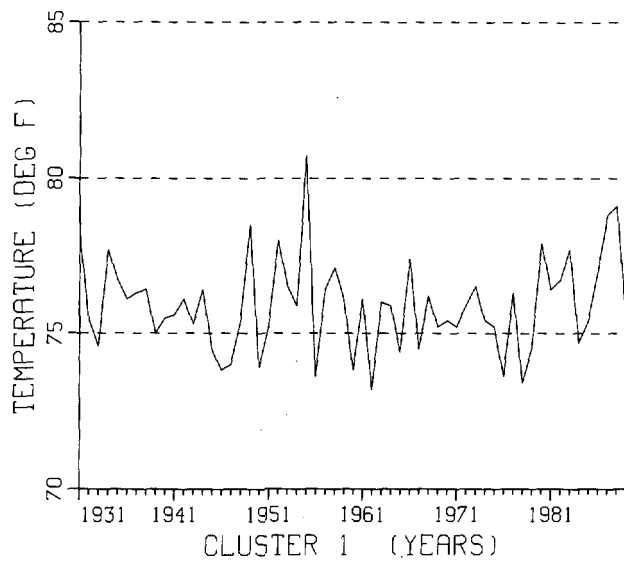
CLUSTER 2 -DIVISION(S):
SOUTHERN 02



MEAN MONTHLY TEMPERATURES FOR
THE MONTH OF: JULY
THE PERIOD OF: 1931 - 1989
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

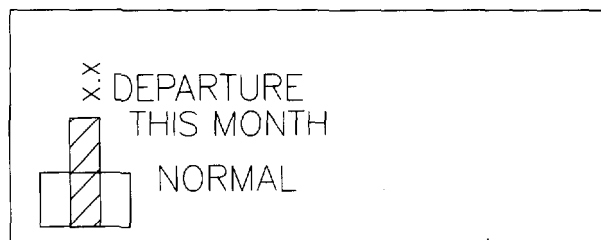
CLUSTER 2 -DIVISION(S):
SOUTHERN 02



TEMPERATURE AND PRECIPITATION

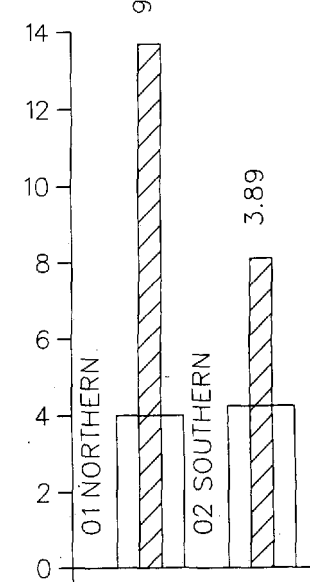
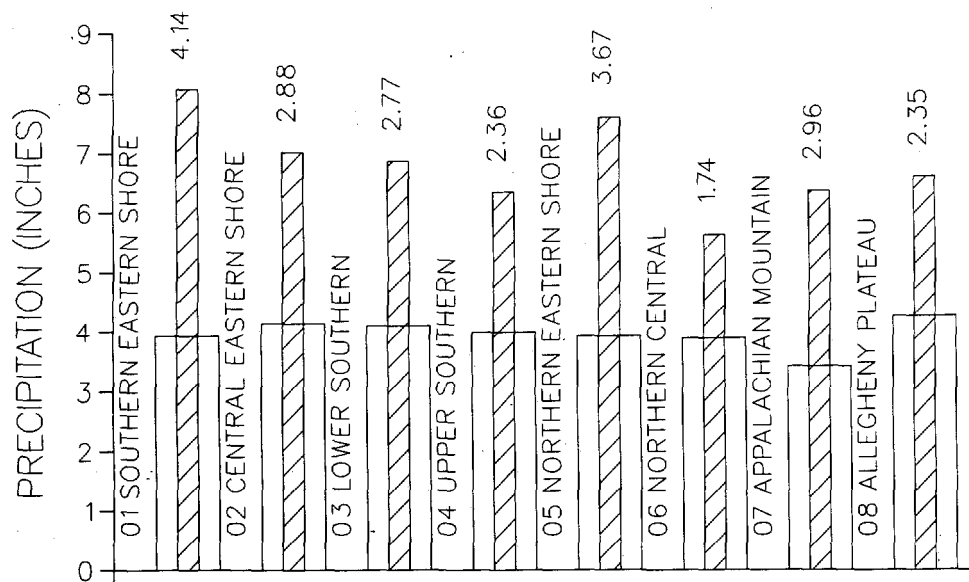
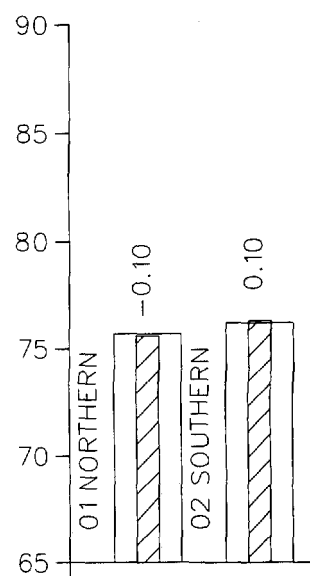
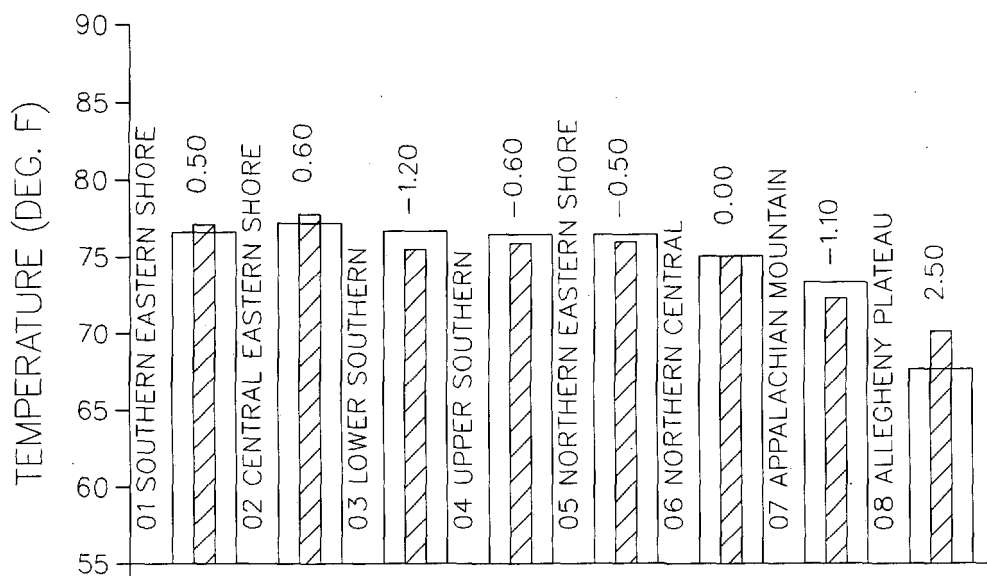
DIVISIONAL AVERAGES AND DEPARTURES FROM NORMAL (1951-1980)

JULY 1989



MARYLAND

DELAWARE



DIVISIONS

DIVISIONS

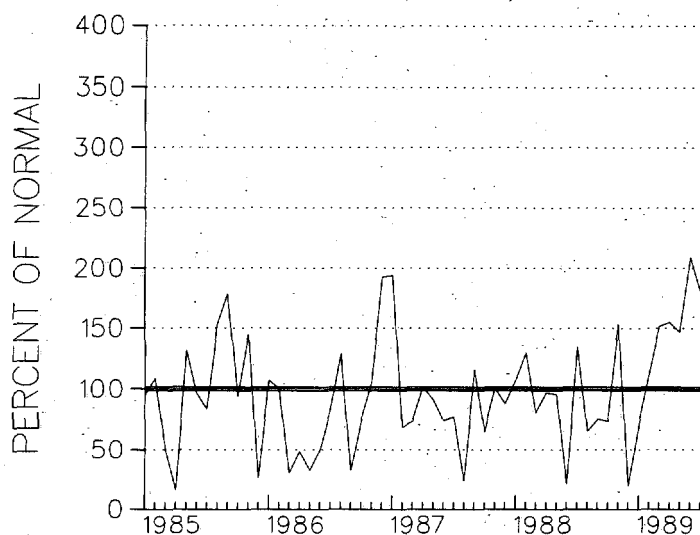
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980) FOR THE 55 MONTHS ENDING JULY 1989 MARYLAND

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

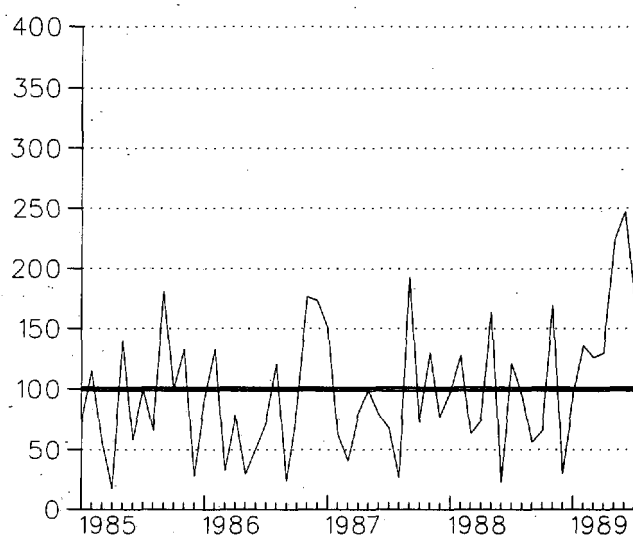
CLUSTER 2 - DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

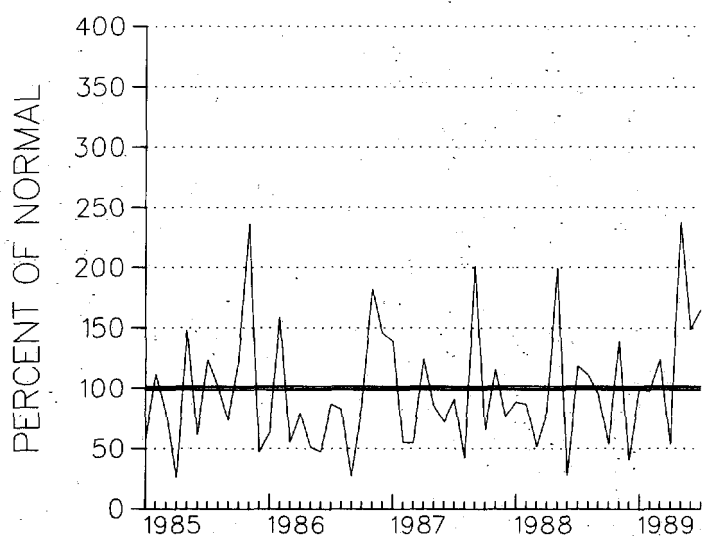
CLUSTER 4 - DIVISION(S):
ALLEGHENY PLATEAU 08



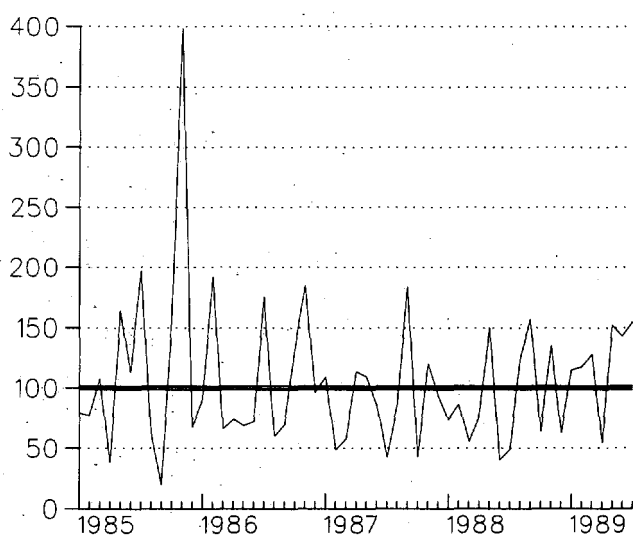
CLUSTER 1



CLUSTER 2



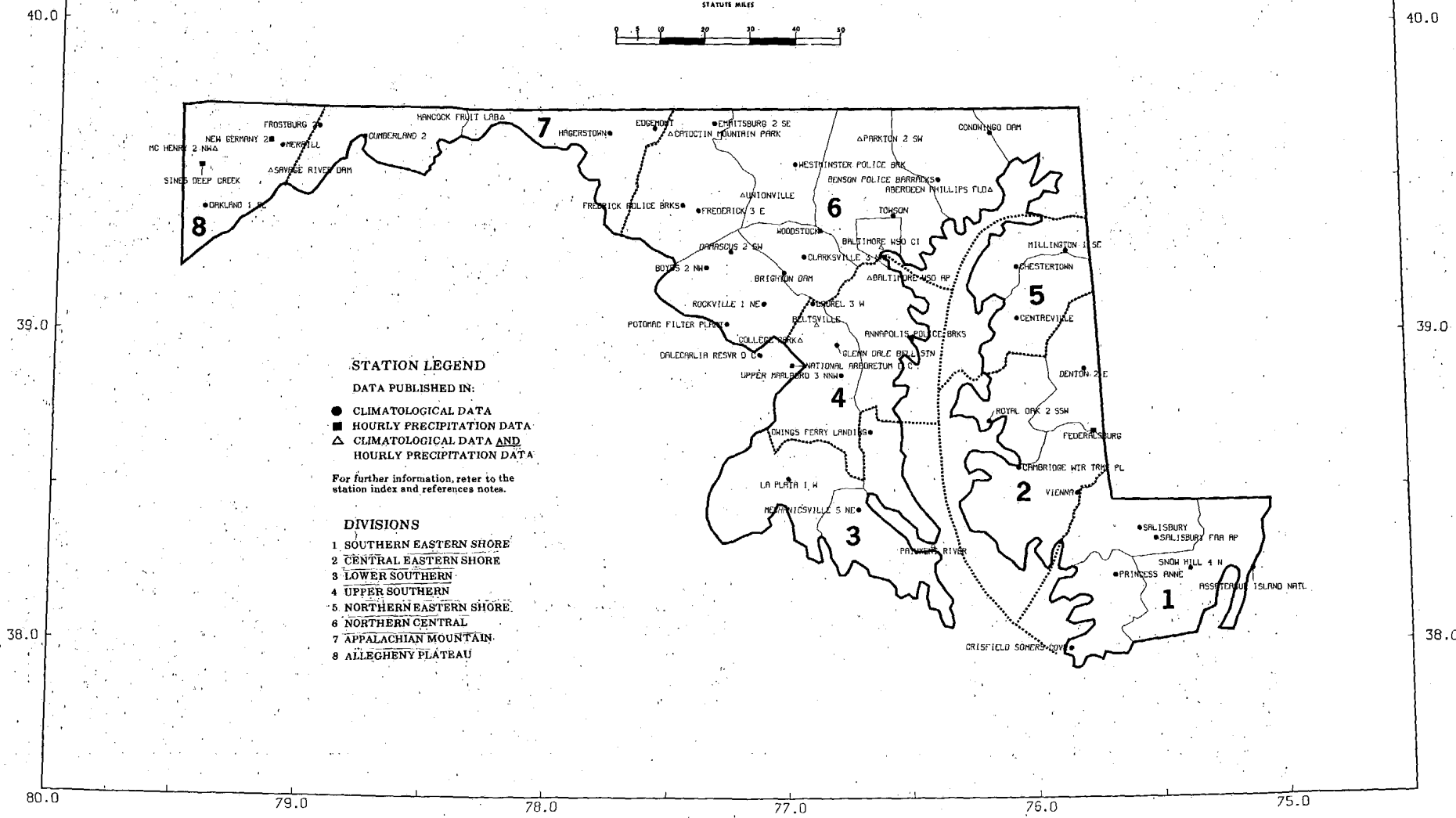
CLUSTER 3



CLUSTER 4

80.0 79.0 78.0 77.0 76.0 75.0

STATUTE MILES



40.0 76.0

75.0

40.0

07 - DELAWARE

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

STATUTE MILES



STATION LEGEND

DATA PUBLISHED IN:

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

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

DIVISIONS

- 1 NORTHERN
- 2 SOUTHERN

39.0

39.0

2

WILMINGTON PORTER RESERVOIR

WILMINGTON MSD RP

NEWARK UNIVERSITY FARM

1

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											
STATION	ANNUAL	MONTH									
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
NORTH CAROLINA											
ASHEVILLE WSO AP	34.57	1.11	1.95	2.75	0.57	3.55					
ASHEVILLE	35.67	0.21	1.57	1.81	0.53	2.63					
ASHFORD	36.74E	1.20	2.70	2.90	0.54E						
BADIN		1.70	1.50	3.60	1.24						
B EVERETT JORDAN DAM											
BOOMER 5 WSO		1.00	2.10								
BURLINGTON 3 WSO		0.80	1.92E								
CAPE HATTERAS WSO	48.85	5.75	1.30								
CARTHAGE 8 SE		1.70									
CATALDOCHEE		0.62									
CHARLOTTE WSO AP	26.91										
CLINTON 2 NE											
DALTON											
DOBSON											
EDEN											
ELIZABETH											
FAYE											
FRANKS											
GREENS											
GREENVILLE											
HELMON											
HOBUCKEN											
LAKE LURE											
LAURELHURST											
LEXINGTON											
MOREHEAD CITY											
MOUNT PLEASANT											
N WILKESBORO 12											
POLKTON 2 NE											
QUEBEC											
RALIGH-DURHAM WSO											
ROANKE RAPIDS											
ROARING GAP 1 NW											
SHELBY 2											
SNEADS FERRY 2 ENE											
SWANANOA 2 SSE											
WILKINGTON WSO AP											
WILSON 3 SW											
YADKINVILLE 6-E											

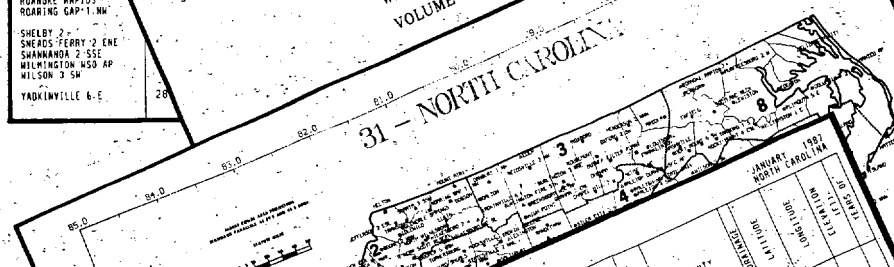


HOURLY PRECIPITATION DATA NORTH CAROLINA

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VOLUME 37 NUMBER 12

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STATION INDEX											
STATION	COUNTY	STATION	COUNTY	STATION	COUNTY	STATION	COUNTY	STATION	COUNTY	STATION	COUNTY
NORTH CAROLINA		ASHEVILLE WSO AP	ASHEVILLE	ASHEVILLE	ASHEVILLE	ASHFORD	ASHFORD	BADIN	BADIN	B EVERETT JORDAN DAM	BADIN
BOOMER 5 WSO	BOOMER	BURLINGTON 3 WSO	BURLINGTON	CAPE HATTERAS WSO	CAPE HATTERAS	CARTHAGE 8 SE	CARTHAGE	CATALDOCHEE	CATALDOCHEE	CHARLOTTE WSO AP	CHARLOTTE
CLINTON 2 NE	CLINTON	DALTON	DALTON	DOBSON	DOBSON	EDEN	EDEN	ELIZABETH	ELIZABETH	FAYE	FAYE
FRANKS	FRANKS	GREENS	GREENS	GREENVILLE	GREENVILLE	HELMON	HELMON	HOBUCKEN	HOBUCKEN	LAKE LURE	LAKE LURE
LAURELHURST	LAURELHURST	LEXINGTON	LEXINGTON	MOREHEAD CITY	MOREHEAD CITY	MOUNT PLEASANT	MOUNT PLEASANT	N WILKESBORO 12	N WILKESBORO	POLKTON 2 NE	POLKTON
QUEBEC	QUEBEC	RALIGH-DURHAM WSO	RALIGH-DURHAM	ROANKE RAPIDS	ROANKE RAPIDS	ROARING GAP 1 NW	ROARING GAP	SHELBY 2	SHELBY	SNEADS FERRY 2 ENE	SNEADS FERRY
SWANANOA 2 SSE	SWANANOA	WILKINGTON WSO AP	WILKINGTON	WILSON 3 SW	WILSON	YADKINVILLE 6-E	YADKINVILLE				

MONTHLY PRECIPITATION MAXIMA											
STATION	MINUTES	HOURS									
		1	2	3	4	5	6	7	8	9	10
NORTH CAROLINA											
ASHEVILLE WSO AP											
ASHEVILLE											
ASHFORD											
BADIN											
B EVERETT JORDAN DAM											

HOURLY PRECIPITATION											
STATION	A.M. HOUR ENDING	1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
NORTH CAROLINA											
ASHEVILLE WSO AP											
ASHEVILLE											
ASHFORD											
BADIN											
B EVERETT JORDAN DAM											

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Federal Building, Asheville, N. C. 28801-2696
Phone (704) 259-0682 or (704) CLIMATE

HOURLY PRECIPITATION DATA NORTH CAROLINA

JANUARY 1987

VOLUME 37 NUMBER 1



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

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

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HOURLY
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DECEMBER
WITH ANNUAL SUPPLEMENT

HOURLY
PRECIPITATION DATA

ARIZONA

VOLUME 35 NUMBER



CLIMATOLOGICAL DATA
ANNUAL SUMMARY
ARIZONA

NUMBER 13

CLIMATOLOGICAL DATA
ARIZONA

**LOCAL
CLIMATOLOGICAL DATA**
Monthly Summary

STATION: 421224
MONTH: JAN 68
STATION: 421224

CLIMATOLOGICAL
Monthly Summary

STATION: 421224

CLIMATE DATA

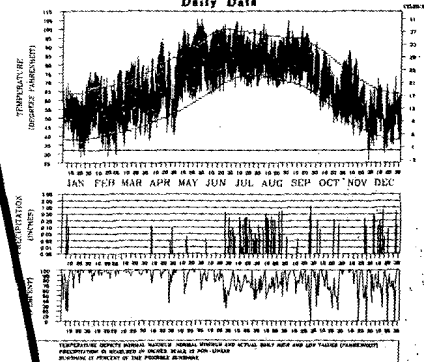
DATE	TEMPERATURE	PRECIPITATION	WIND	HUMIDITY	CLOUDS	VISIBILITY
1	55	0.0	10	65	100	10
2	55	0.0	10	65	100	10
3	55	0.0	10	65	100	10
4	55	0.0	10	65	100	10
5	55	0.0	10	65	100	10
6	55	0.0	10	65	100	10
7	55	0.0	10	65	100	10
8	55	0.0	10	65	100	10
9	55	0.0	10	65	100	10
10	55	0.0	10	65	100	10
11	55	0.0	10	65	100	10
12	55	0.0	10	65	100	10
13	55	0.0	10	65	100	10
14	55	0.0	10	65	100	10
15	55	0.0	10	65	100	10
16	55	0.0	10	65	100	10
17	55	0.0	10	65	100	10
18	55	0.0	10	65	100	10
19	55	0.0	10	65	100	10
20	55	0.0	10	65	100	10
21	55	0.0	10	65	100	10
22	55	0.0	10	65	100	10
23	55	0.0	10	65	100	10
24	55	0.0	10	65	100	10
25	55	0.0	10	65	100	10
26						

CLIMATE SUMMARY

DATE	TEMPERATURE	PRECIPITATION	WIND	HUMIDITY	CLOUDS	VISIBILITY
1	55	0.0	10	65	100	10
2	55	0.0	10	65	100	10
3	55	0.0	10	65	100	10
4	55	0.0	10	65	100	10
5	55	0.0	10	65	100	10
6	55	0.0	10	65	100	10
7	55	0.0	10	65	100	10
8	55	0.0	10	65	100	10
9	55	0.0	10	65	100	10
10	55	0.0	10	65	100	10
11	55	0.0	10	65	100	10
12	55	0.0	10	65	100	10
13	55	0.0	10	65	100	10
14	55	0.0	10	65	100	10
15	55	0.0	10	65	100	10
16	55	0.0	10	65	100	10
17	55	0.0	10	65	100	10
18	55	0.0	10	65	100	10
19	55	0.0	10	65	100	10
20	55	0.0	10	65	100	10
21	55	0.0	10	65	100	10
22	55	0.0	10	65	100	10
23	55	0.0	10	65	100	10
24	55	0.0	10	65	100	10
25	55	0.0	10	65	100	10
26						

LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA
TUCSON,

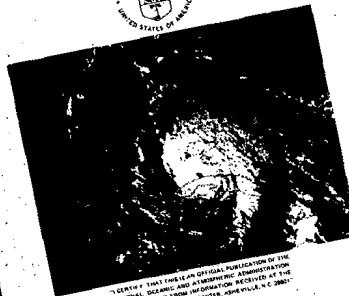
Daily Data



**MONTHLY CLIMATIC
DATA FOR THE WORLD**
PREPARED IN COOPERATION WITH THE
WORLD METEOROLOGICAL ORGANIZATION



STORM DATA



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Harold D. Thorne
DIRECTOR
NATIONAL CLIMATIC DATA CENTER
7/2/68

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