

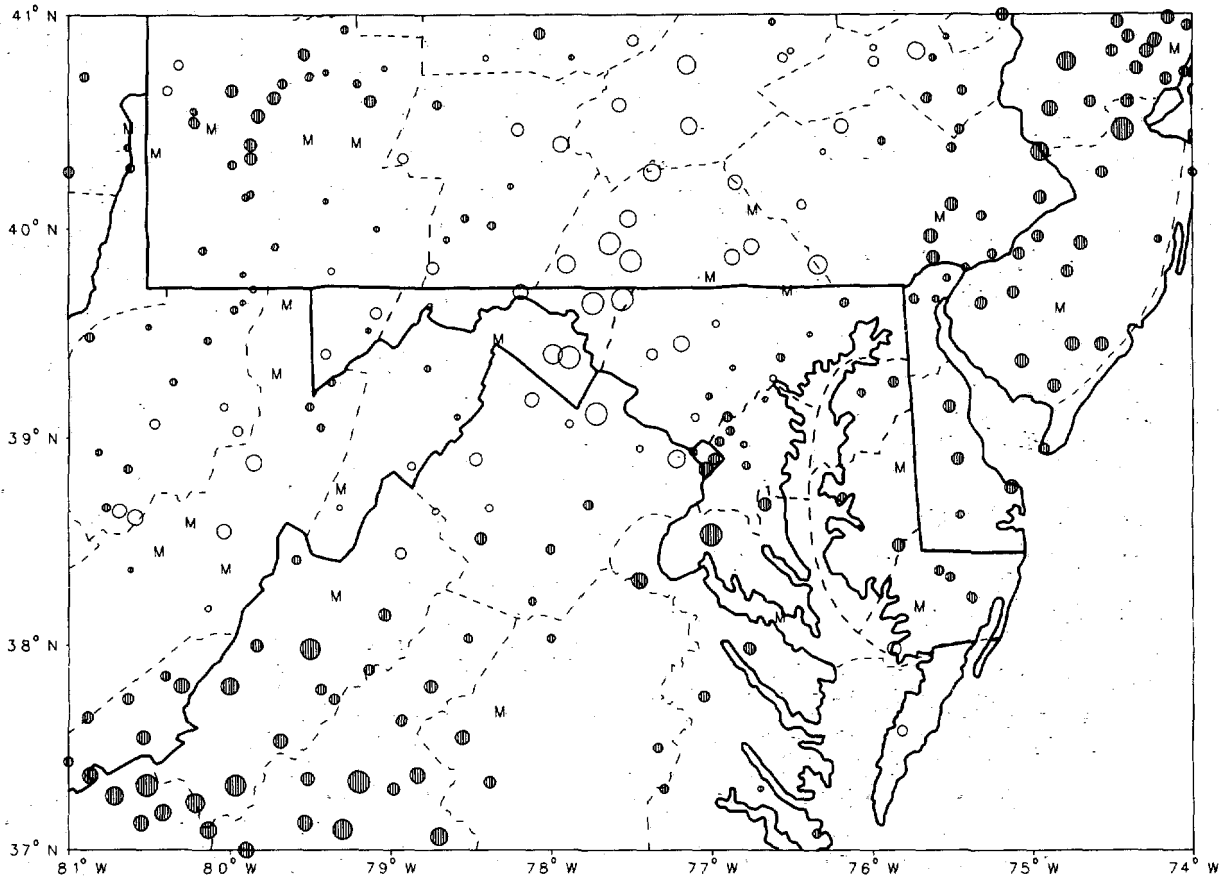


CLIMATOLOGICAL DATA MARYLAND AND DELAWARE

SEPTEMBER 1989 VOLUME 93 NUMBER 9

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

- M INCOMPLETE DATA FOR THE MONTH
- ∇ EXACTLY NORMAL
- ○ ○ ○ 5, 10, 20, ... 50% OR MORE BELOW NORMAL
- ● ● ● 10, 20, 40, ... 100% OR MORE ABOVE NORMAL



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). IT IS COMPILED USING INFORMATION FROM WEATHER OBSERVING SITES SUPERVISED BY NOAA/NATIONAL WEATHER SERVICE AND RECEIVED AT THE NATIONAL CLIMATIC DATA CENTER (NCDC), ASHEVILLE, NORTH CAROLINA 28801."

Kenneth D. Walden

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

noaa

NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE NORTH CAROLINA

TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND AND
DELAWARE
SEPTEMBER 1989

MARYLAND
HIGHEST TEMPERATURE 98
LOWEST TEMPERATURE 28
GREATEST TOTAL PRECIPITATION 10.18
LEAST TOTAL PRECIPITATION 1.57
GREATEST 1 DAY PRECIPITATION 5.21

SEPTEMBER 11
SEPTEMBER 28

SEPTEMBER 13

NATIONAL ARBORETUM DC
OAKLAND 1 SE
LA PLATA 1 W
HAGERSTOWN
LA PLATA 1 W

DELAWARE
HIGHEST TEMPERATURE 94
LOWEST TEMPERATURE 37
GREATEST TOTAL PRECIPITATION 7.64
LEAST TOTAL PRECIPITATION 4.31
GREATEST 1 DAY PRECIPITATION 3.11

SEPTEMBER 12+
SEPTEMBER 28

SEPTEMBER 19

3 STATIONS
2 STATIONS
DOVER
WILMINGTON WSO ARPT R
MILFORD 4 SE

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
SEPTEMBER 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			
									90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW				TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE
MARYLAND																			
SOUTHERN EASTERN SHORE 01																			
ASSATEAGUE IS NATL SEA	79.8	62.5	71.2		9021+	4525	31223	20000	4.38		1.76	26	.0				5	3	3
CRISFIELD SOMERS COVE	80.3	69.9	73.1	1.2	8912	4528	16267	00000	2.42	.85	1.05	26	.0				4	2	2
PRINCESS ANNE	81.5	60.3	71.2	1.3	9311	4325+	30225	10000	5.52	1.93	3.30	19	.0				6	3	2
SALISBURY	79.7	60.0	70.1	1.5	9311	3928	44207	20000	5.90	1.96	2.92	19	.0				6	5	2
SALISBURY FAA ARPT	81.9	60.5	71.2	2.2	9511	3728	36230	30000	5.67	2.14	2.84	19	.0				5	3	2
SNOW HILL 4 N																			
--DIVISIONAL DATA-->																			
CENTRAL EASTERN SHORE 02																			
CAMBRIDGE WATER TRMT P	81.0	62.2	71.6	2.1	9311	4128	34240	30000	4.01	.29	1.44	26	.0				6	3	2
DENTON 2 E	78.5	61.8	70.2	-.1	9111+	4228	35196	20000	5.24	1.52	1.68	26	.0				8	4	2
ROYAL OAK 2 SSW	81.8	58.6	70.2	.3	9611	3828	44210	30000	7.25	3.28	2.34	17	.0				7	4	3
VIENNA																			
--DIVISIONAL DATA-->																			
LOWER SOUTHERN 03																			
LA PLATA 1 W	77.3	58.9	68.1	-.7	9010	4228+	52154	10000	10.18	6.74	5.21	13	.0				8	5	3
MECHANICSVILLE 5 NE	76.6	59.8	68.2		9111	3728	62165	20000	6.43		1.91	13	.0				10	4	3
OWINGS FERRY LANDING	78.5	59.6	69.1	.3	9210	3928	47174	20000	6.71	3.19	1.80	26	.0				7	5	3
PATUXENT RIVER	78.9	64.1	71.5		9011	4628+	33236	10000	5.06	1.29	2.9	16	.0				7	4	1
TALL TIMBERS																			
--DIVISIONAL DATA-->																			
UPPER SOUTHERN 04																			
ANNAPOLIS POLICE BRKS	80.5	57.2	68.9		9211+	3728+	50173	20000	4.97		1.85	26	.0				7	3	2
BALTIMORE WSO ARPT	77.7	60.2	69.0	.1	9310	4028	51178	10000	3.64	.18	1.03	16	.0				6	3	1
BELTSVILLE	78.6	58.3	68.5	1.3	9311	3728	59169	30000	5.11	1.40	1.38	21	.0				8	4	2
COLLEGE PARK	79.9	60.5	69.9	.7	9511	4028	48201	30000	5.29	1.73	1.50	21	.0				10	4	2
DALECARLIA RESVR DC	80.3	56.1	68.2	-1.0	9510	3628	65170	40000	4.51	1.09	1.40	26	.0				11	3	1
GLENN DALE BELL STN	80.9	56.7	68.3	.3	9411+	3528	47153	30000	4.18	.52	1.44	20	.0				7	2	3
LAUREL 3 W	79.6	60.7	70.2	.6	9510	4328	31193	30000	5.20	1.82	1.56	17	.0				8	4	2
NATIONAL ARBORETUM DC	80.7	52.3	66.5	-3.6	9811	3428+	87139	50000	6.08	2.50	1.64	17	.0				8	5	2
UPPER MARLBORO 3 NNW	79.1	55.2	67.2		9412	3528	75148	20000	4.88	1.15	2.00	26	.0				6	3	2
--DIVISIONAL DATA-->																			
NORTHERN EASTERN SHORE 05																			
CHESTERTOWN	79.1	59.4	69.3	.0	9510	4028	44180	20000	4.83	1.25	1.46	19	.0				7	4	2
MILLINGTON 1 SE	79.9	58.7	69.3	1.3	9411	3828	42177	20000	6.07	2.28	1.86	19	.0				6	4	3
--DIVISIONAL DATA-->																			
NORTHERN CENTRAL 06																			
ABERDEEN PHILLIPS FLD	77.4	63.9	71.7	.0	9011	3928	33241	10000	5.06				.0				4	3	1
BALTIMORE WSO CITY	79.5	63.9	71.7	.0	9510	4628+	33241	30000	3.52	-.14	.96	20	.0				6	3	0
BENSON POLICE BARRACKS	80.6	59.9	68.3	.8	9610	3628	49155	20000	4.24	.06	1.05	19	.0				9	3	1
BOYDS 2 NW	77.2	67.6	67.4		9410	3824	67146	20000	2.57		1.05	16	.0				4	2	0
CATACTIN MOUNTAIN PARK	71.2	56.1	63.7		8410	3727	11078	00000	2.24		.58	16	.0				4	2	0
CLARKSVILLE 3 NNE	78.9	56.8	67.4		9310	3428	66144	30000	4.38		1.81	20	.0				8	3	1
CONOWINGO DAM	80.4	55.5	68.0	.8	9310	3728+	50145	20000	5.52	1.63	1.71	19	.0				12	3	1
DAMASCUS 2 SW	76.1	57.6	66.9		9210	3624	70134	10000	2.62		.85	26	.0				5	2	0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND
DELAWARE
SEPTEMBER 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						
									90 OR ABOVE MAX	32 OR BELOW MIN	32 OR BELOW MAX	0 OR BELOW MIN				TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE	
EMMITSBURG 2 SE	75.6	55.1	65.4		93 21 1	32 22 8	81	99	1	0	1	0	1	1.80		65 16	.0	.0		4	2	0
FREDERICK POLICE BRKS	80.1	59.3	69.7		93 06 10	36 22 8	47	194	4	0	0	0	1	1.70		45 26	.0	.0		7	0	0
MILLERS 4 NE	74.9	56.5	65.7		93 01 10	35 22 8	83	113	0	0	0	0	3	3.52		96 21	.0	.0		6	2	0
ROCKVILLE 1 NE	75.9	60.1	68.0	.3	93 02 10	39 22 8	56	152	1	1	0	0	3	1.7	-1.52	77 26	.0	.0		8	2	0
TOWSON	77.9	57.1	67.5		93 11 10	39 22 8 +	56	139	0	0	0	0	3	3.67		93 26	.0	.0		1	0	0
UNIONVILLE	77.5	54.7	66.1	.8	93 31 10	32 22 8	85	126	1	1	1	0	2	3.36	-1.15	56 26	.0	.0		6	1	1
WESTMINSTER POLICE BRK	78.2	53.1	65.7		93 21 1 +	34 22 4	81	107	0	0	0	0	3	3.60	-.23	1.13 20	.0	.0		5	4	1
WOODSTOCK	78.1	57.4	67.8	1.0	93 31 0	36 22 8	58	151	2	0	0	0	4	4.06	-.06	1.11 20	.0	.0		9	3	1
--DIVISIONAL DATA----->			67.3	-.1									3	3.50	-.33		.0					
APPALACHIAN MOUNTAIN 07																						
CUMBERLAND 2	75.2	55.7	65.5	-1.1	91 11 0	38 22 8 +	85	104	2	0	0	0	2	2.83	-.09	1.07 16	.0	.0		6	2	1
FROSTBURG 2	68.0	52.9	60.5		84 11 1	34 22 5	169	39	0	0	0	0	4	4.16		1.28 13	T	T		7	3	1
HAGERSTOWN	76.2	55.5	65.9	-.9	94 11 1	36 22 9 +	89	121	2	2	0	0	1	1.57	-1.73	55 26	.0	.0		5	1	0
HANCOCK	76.1	53.1	64.6	-.3	93 31 1	35 22 9 +	109	103	2	0	0	0	2	2.30	-.92	72 26 +	.0	.0		4	2	0
--DIVISIONAL DATA----->			64.1	-1.6									2	2.72	-.47		.0					
ALLEGHENY PLATEAU 08																						
MC HENRY 2 NW	69.9	51.3	60.6		84 11 1	32 22 4	169	43	0	0	1	0	2	2.71		61 23	.0	.0		9	2	0
OAKLAND 1 SE	70.3	51.7	61.0	.5	83 5	28 22 8	156	44	0	0	3	0	2	2.69	-.42	48 26	.0	.0		8	0	0
SAVAGE RIVER DAM	72.3	52.7	62.5	.5	88 10	34 22 9 +	134	66	0	0	0	0	3	3.09	-.10	93 13	.0	.0		7	3	0
--DIVISIONAL DATA----->			61.4	.8									2	2.83	-.33		.0					
DELAWARE																						
NORTHERN 01																						
NEWARK UNIVERSITY FARM	79.0	58.3	68.7	.8	93 31 0	37 22 8	53	171	2	0	0	0	5	4.42	1.81	1.55 20	.0	.0		6	4	3
WILMINGTON WSD ARPT	77.7	59.1	68.4	.5	93 31 0	40 22 8	54	162	2	0	0	0	4	4.31	.72	1.81 19	.0	.0		5	4	1
WILMINGTON PORTER RSVR	76.2	59.7	68.0	1.1	91 11 0	41 22 4	56	152	1	0	0	0	4	4.75	.94	1.58 19	.0	.0		6	4	2
--DIVISIONAL DATA----->			68.4	.6									4	4.83	1.24		.0					
SOUTHERN 02																						
DOVER	80.2	61.2	70.7	1.1	94 11 1	42 22 8	34	211	3	0	0	0	7	7.64	3.50	2.60 19	.0	.0		8	4	4
GEORGETOWN 5 SW	78.6	59.1	68.9	.5	94 12	37 22 8	59	184	2	0	0	0	4	4.76	1.25	1.78 20	.0	.0		6	4	2
GREENWOOD 2 NE	78.4	59.0	68.7		92 11 1	38 22 8	55	173	0	0	0	0	5	5.17		1.90 19	.0	.0		6	4	2
LEWES	79.0	64.5	71.8	3.4	92 10 +	43 22 8	30	240	2	0	0	0	6	6.42	3.16	1.90 19	.0	.0		6	4	4
MILFORD 4 SE	79.0	60.6	69.8	1.0	94 11 1	39 22 8	42	193	3	0	0	0	6	6.75	3.00	3.11 19	.0	.0		7	4	2
--DIVISIONAL DATA----->			70.0	1.3									6	6.15	2.48		.0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
SEPTEMBER 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	4.38														.03	1.13	.05	.01	1.08	.12	.18					.02	1.76					
CRISFIELD SOMERS COVE	2.42														.25				1.01	.01							1.05					
PRINCESS ANNE	M																															
SALISBURY	5.52											.63		.10	.15	.08	.15		3.30	.02		.02	.02				1.05					
SALISBURY FAA ARPT	5.90										.89		.20		.56			T	2.92	.05		.01	.01			.52	.74					
SNOW HILL 4 N	5.67										T		.22	.05	.93				2.84	.19		.06	T	T			1.38					
CENTRAL EASTERN SHORE 02																																
CAMBRIDGE WATER TRMT P	4.01										.04	.02	.24	.12	.05	.63			1.15	.19	.05	.01			.07		1.44					
DENTON 2 E	M																															
ROYAL OAK 2 SSW	5.24										.63	.18	.15	.11	.40				1.22	.77		.02	T		.08	T	1.68					
VIENNA	7.25										.36		.62	.06	.15	2.34			2.04	.20	*	.06					1.42					
LOWER SOUTHERN 03																																
LA PLATA 1 W	10.18											1.13	5.21	.28		.77			.37	.54	.08	.07	.28	.01	.05	1.39						
MECHANICSVILLE 5 NE	6.43											.21	1.91	.47		.24	.22	T	.54	1.08	T	.06	.38		.22	1.10						
OHINGS FERRY LANDING	6.71										.05	1.77	.90	.01	.13	.34			.58	1.02		.06	.05			1.80						
PATUXENT RIVER	5.06											.04	T	.04		1.29	.35	T	.92	.81		T	.11		.49	.93						
TALL TIMBERS	H																															
UPPER SOUTHERN 04																																
ANNAPOLIS POLICE BRKS	4.97											.30	.02	.04		.10	1.31		.84	.31	.01		.13	.06		1.85						
BALTIMORE HSO ARPT	3.64	.01	T									.02	.03		1.03		T	.87	.42		T	.14		.25	.87							
BELTSVILLE	5.11		.02									.17	.03	.11	T	.98	.31		.08	.52	1.38	.07	.05	.22		1.17						
COLLEGE PARK	5.29											.04	.37	.37		.60	.41		.12	.60	1.50	.10	.20	.10	1.25							
DALECARLIA RESVR DC	4.51		.01									.22		.25		.59	.66	.10	.20	.48	.15	.25	.19	.20	1.40			.01				
GLENN DALE BELL STN	4.18											.03	.03	.10	.04	.31	1.09		.32	.49	.04	.08	.20		1.45							
LAUREL 3 W	5.20											.02	.28		1.01			.60	1.56	.04	.11	.25		.31	1.02							
NATIONAL ARBORETUM DC	6.08											.04	.02	.87	.02	1.64		.02	.05	.61	.85	.10	.12	.31	.05	1.38						
UPPER MARLBORO 3 NNW	4.88											.08	.04	.08		1.40			.17	.73	.14	.05	.06	.13		2.00						
NORTHERN EASTERN SHORE 05																																
CHESTERTOWN	4.83					T						T	.02	.17	.90		T	1.46	.62	T	.12	.06		.13	1.35							
MILLINGTON 1 SE	6.07											T		.06			1.45		1.86	.60	.12	.21	.03		1.74							
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD	5.06		.01													*	*	1.90	1.26	.60	T	.40	*	*	.05	.85						
BALTIMORE HSO CITY	3.52											.06	.01	.06		.49	.96		.58	.96			.18		.87							
BENSON POLICE BARRACKS	4.24		.03								.10	.01	.14	.02	.13	.19		1.52	.55	.05	.21	.45	.05	.79								
BOYDS 2 NW	2.57											.03				1.05			.05	.93	.06	.14	.05		.26							
BRIGHTON DAM	4.30												T			1.10			.50	.70		.40	.60		.20	.80						
CATOCTIN MOUNTAIN PARK	2.24														.58	.02	.02		.03	.34	.06	.55	.07		.57							
CLARKSVILLE 3 NNE	4.38											.02	.01		.50	.35		.21	1.81	.23	.11	.16		T	.98							
CONOWINGO DAM	5.52										.20	.18	.25		.25	.26		1.71	.56	.07	.33	.38		.39	.17	.77						
DAMASCUS 2 SW	2.62		T									.01	T		.79	.02			.06	.36	.21	.23	.09		T	.85						
EMMITSBURG 2 SE	1.80					T						T	T	.09		.65			T	.39	T		.13		.54							
FREDERICK POLICE BRKS	1.70													T		.32	.13		.02	.30	.08	.30	.10		.45							
FREDERICK 3 E	2.94													T		.22	.51	T		.48	.14	T	.33	.64		.62						
MILLERS 4 NE	3.52										.25	T	T		.53	.05		.26	.65	.96	.08	.26			.48							
POTOMAC FILTER PLANT	2.89	.01	.01									.19	.03	T		.54	.01		.31	.20	.01	.22	.25		.29	.82						
ROCKVILLE 1 NE	3.17	T	T									.13	.01		.76	T		.33	.37	.07	.27	.20		.26	.77							
TONSON	5.67		.10											.25	.90	.25		.91	.34	.60	.80	.57		.02		.93						
UNIONVILLE	2.36														.33	.05		.05	.34	.36	.33	.32			.56							
WESTMINSTER POLICE BRK	3.60											.03		.03		.68	.60		.09	1.13	.08	.24	.09	.03	.60							
WOODSTOCK	4.06		T										T	.12		.50	.43		.33	1.11	.31	.20	.18		.88							

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION (INCHES)

MARYLAND AND
DELAWARE
SEPTEMBER 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	2.83		T							.24			.34		.07	1.07	.32						.02	.18	.02			.57				
EDGEMONT	1.85															.04	.17					.18	.03	.70	.11		.60		.02			
FROSTBURG 2	4.16		.09						.01	.32		T	1.28	T	.12	.64	.49	.03	.03	T		.02	.02	.56	.07		.48	T				
HAGERSTOWN	1.57												.04			.21	.30				.03	.18	.02	.18	.05		.55		.01			
HANCOCK	2.30										.03		.04			.72	.35		T	T		.02	.05	.37	T		.72					
ALLEGHENY PLATEAU 08																																
MC HENRY 2 NW	2.71		.11					T	T		.03		.57	T	.26	.27	.15	.03	.12	T	T	.03	.61	.17		.36						
MERRILL	2.35									.20		.59	.01	.25	.53	.17	T	.04				.05	.05	.05			.46					
OAKLAND 1 SE	2.69	.04	.05						.17		.04	.31	.03	.08	.23	.44	.20	.07	T			.25	.30			.48						
SAVAGE RIVER DAM	3.09		.02	T				T		.03		.28	T	.93	T	.26	.56	.18	T	.06	.01	T	.09	.14	.02		.51					
DELAWARE NORTHERN 01																																
NEWARK UNIVERSITY FARM	5.42												T		.03	.09	1.02		1.52	1.55	.28	.17				.76						
WILMINGTON HSO ARPT R	4.31	T	T										.04		.91			T	1.81	.53		.05	.01		.15	.81						
WILMINGTON PORTER RSVR	4.75					T							.21		.77				1.58	1.14		.23	.02			.80						
SOUTHERN 02																																
DOVER	7.64											1.11		.03	.17	.24	1.42		2.60	.23	.05	.12	.05	.05		1.57						
GEORGETOWN 5 SW	4.76											.34		.03	.05	.06	.58		.62	1.78		.12	.19			1.14						
GREENWOOD 2 NE	5.17											.11		.73	.02	.87			1.90	.10	.01	.03	T	.08	T	1.32						
LEWES	6.42					T						1.33		.10	.16	1.10	.05		1.90	.05			.04			1.69						
MILFORD 4 SE	6.75													.54	.20	.33	.98		3.11	.14		.02				1.43						

SEE REFERENCE NOTES FOLLOWING STATION INDEX
6

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
SEPTEMBER 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 OBS MIN OBS	80	83	85	85	80	80	77	77	77	84	86	88	80	85	80	90	84	85	77	77	90	85	74	78	75	72	76	63	68	72			79.8	
			67	70	61	60	62	68	62	61	59	63	72	71	70	70	73	69	69	63	63	64	70	72	73	48	45	50	46	46	49	59			62.5	
CRISFIELD SOMERS COVE	17	MAX MIN	83	86	82	82	79	79	78	78	80	86	88	89	83	84	84	85	85	77	78	85	86	86	82	77	70	72	71	71	71	73			80.3	
			68	77	65	66	61	61	61	61	68	73	73	73	70	72	77	71	71	65	65	73	74	75	74	51	50	63	52	45	59	64			65.9	
PRINCESS ANNE	17	MAX MIN																																	M	
																																			M	
SALISBURY	17	MAX MIN OBS	85	87	86	79	78	79	81	83	85	87	93	88	83	83	87	86	83	79	79	85	87	89	82	74	70	75	72	69	75	75			81.5	
			62	72	58	54	61	63	57	58	60	63	69	68	68	68	72	69	67	62	62	70	71	72	59	43	43	43	46	44	50	58			60.9	
SALISBURY FAA ARPT	MID	MAX MIN	84	88	79	78	78	77	82	83	85	91	93	82	83	84	87	86	78	75	77	85	87	84	83	64	70	73	63	68	74	71			79.7	
			61	67	58	56	60	59	56	56	58	66	70	69	68	71	71	70	65	64	65	72	72	73	50	45	43	58	43	39	50	59			60.5	
SNOW HILL 4 N	18	MAX MIN	87	88	86	78	79	78	81	82	87	93	95	91	83	84	88	86	82	77	77	85	88	83	85	78	70	74	72	69	77	75			81.9	
			59	73	55	52	61	66	55	55	56	64	67	69	68	67	73	70	69	60	62	71	70	70	73	44	41	62	42	37	47	58			60.5	
CENTRAL EASTERN SHORE 02																																				
CAMBRIDGE WATER TRMT P	16	MAX MIN	84	86	86	78	79	80	81	80	88	91	93	90	84	85	85	84	85	78	73	85	89	86	85	62	70	73	73	67	76	74			81.0	
			64	72	61	60	61	65	60	58	65	68	72	69	70	70	73	69	68	64	62	70	72	61	59	49	44	60	47	41	52	60			62.2	
DENTON 2 E	17	MAX MIN																																	M	
																																			M	
ROYAL OAK 2 SSW	18	MAX MIN	83	86	80	76	77	78	81	79	85	91	91	86	82	82	83	81	79	74	71	79	86	84	79	62	68	72	70	66	73	71			78.5	
			65	73	59	54	59	62	57	59	66	68	70	64	68	71	73	68	67	63	61	69	73	73	53	47	43	59	50	42	57	60			61.8	
VIENNA	18	MAX OBS MIN OBS	85	88	82	80	80	80	83	84	86	91	96	90	82	85	87	87	82	81	78	85	89	89	83	62	72	75	75	69	76	72			81.8	
			62	69	55	61	56	59	***	54	62	66	69	66	65	66	70	66	64	59	59	67	69	62	58	41	40	56	43	38	50	51			58.6	

LOWER SOUTHERN 03																																				
LA PLATA 1 W	18	MAX MIN	84	83	78	77	76	78	79	79	83	90	89	84	85	78	85	80	75	72	68	78	85	85	82	60	65	69	67	65	73	68			77.3	
			62	69	56	53	57	61	60	58	63	62	68	67	63	66	70	65	59	57	63	63	73	70	45	42	42	55	46	42	51	59			58.9	
MECHANICSVILLE 5 NE	19	MAX MIN	83	84	77	75	75	77	77	79	85	90	91	80	79	80	82	81	76	71	68	78	85	85	80	60	65	70	62	65	72	67			76.6	
			63	69	57	50	59	63	57	57	64	67	70	69	68	67	70	69	66	58	63	64	74	72	50	40	40	58	46	37	50	57			59.8	
OWINGS FERRY LANDING	17	MAX MIN	87	85	82	76	78	78	78	81	87	92	91	80	79	81	83	79	78	74	69	78	86	85	84	64	65	72	71	68	75	70			78.5	
			58	69	64	52	58	62	56	57	64	68	69	68	68	67	71	67	64	57	61	64	73	70	51	40	42	56	45	39	50	57			59.6	
PATUXENT RIVER	MID	MAX OBS MIN	85	85	77	80	79	80	81	82	85	88	90	79	84	85	87	84	82	74	69	80	86	84	80	63	68	73	62	68	77	70			78.9	
			66	72	66	65	65	64	61	61	67	71	73	72	72	74	72	69	67	63	63	68	75	75	51	49	51	59	46	46	57	62			64.1	
TALL TIMBERS	17	MAX MIN																																	M	
																																				M
UPPER SOUTHERN 04																																				
ANNAPOLIS POLICE BRKS	17	MAX MIN	89	87	87	79	79	80	80	80	87	92	92	88	80	84	84	80	80	80	72	80	88	88	84	65	67	74	73	67	76	74			80.5	
			62	66	57	55	57	60	56	58	62	65	68	63	63	67	67	62	60	55	57	59	68	69	47	37	41	54	44	37	46	53			57.2	
BALTIMORE WSO ARPT	MID	MAX MIN	85	86	77	76	77	78	80	80	88	93	89	79	77	83	81	73	80	73	66	79	87	83	83	64	65	72	65	67	74	70			77.7	
			63	64	60	55	57	61	60	64	64	68	71	68	68	71	72	67	63	59	60	66	74	74	48	41	42	56	44	40	49	57			60.2	
BELTSVILLE	08	MAX MIN	85	85	85	78	78	78	79	81	82	90	93	91	79	79	84	81	73	78	75	68	79	87	84	79	63	65	71	63	68	76			78.6	
			59	67	54	52	55	62	59	56	63	65	68	66	66	69	70	64	62	55	60	60	67	71	72	39	39	50	44	37	46	52			58.3	
COLLEGE PARK	09	MAX MIN	87	86	87	79	76	77	82	82	85	91	95	92	80	79	83	82	72	78	73	69	79	88	85	82	64	67	72	64	67	77			79.3	
			61	70	54	52	55	65	61	59	66	70	72	68	69	70	73	64	62	57	61	61	69	74	75	42	42	51	46	40	47	58			60.5	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
SEPTEMBER 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		
DALE CARLIA RESVR DC	17	MAX MIN OBS	88 57 69	86 69 60	89 60 48	77 48 59	78 59 56	80 56 55	82 55 54	82 54 73	90 77 65	93 65 61	87 63 64	81 63 64	85 64 66	82 66 59	76 59 58	79 58 50	77 50 46	73 46 56	75 64 64	90 64 64	86 79 43	87 43 45	63 45 33	65 38 52	72 52 37	70 37 33	69 36 59	77 42 42	75 51 51	80.3 56.1			
GLENN DALE BELL STN	16	MAX MIN OBS	87 54 64	85 64 48	88 48 50	80 50 53	79 53 59	80 56 54	84 54 60	84 60 65	94 65 66	94 66 66	91 66 65	78 65 68	84 68 68	83 68 64	75 64 60	72 60 52	79 58 70	71 58 62	77 70 62	88 70 62	87 69 51	83 61 38	79 38 37	67 37 55	72 55 39	71 39 35	70 35 44	77 44 52	75 52 52	80.5 56.1			
LAUREL 3 W	MID	MAX MIN	85 61	89 68	81 57	80 56	78 57	81 64	82 63	84 61	91 66	95 71	92 72	80 61	78 68	85 69	82 68	71 64	79 64	78 58	69 63	79 58	89 74	85 78	80 49	65 51	76 45	73 56	65 45	68 43	77 51	71 59	79.6 60.7		
NATIONAL ARBORETUM DC	08	MAX MIN OBS	88 58 60	90 60 50	88 48 47	80 48 47	80 47 53	81 53 53	82 55 53	84 53 53	91 60 64	92 64 62	80 62 64	78 62 64	85 65 65	84 65 67	84 65 67	86 63 60	76 49 50	80 50 55	78 55 59	89 66 67	85 66 73	80 87 87	65 73 73	76 64 67	73 73 73	64 64 69	67 64 69	73 77 77	80.7				
UPPER MARLBORO 3 NNW	08	MAX MIN	87 58	87 65	88 50	78 48	78 50	80 57	79 55	80 53	82 56	89 62	93 65	94 65	78 65	79 65	84 67	84 63	75 60	79 60	74 56	66 58	80 63	85 72	80 70	64 37	66 40	72 40	72 42	64 35	68 40	76 48	79.1 55.2		
NORTHERN EASTERN SHORE	05																																		
CHESTERTOWN	23	MAX MIN	85 66	86 65	80 54	78 54	77 55	79 58	83 55	82 57	88 63	95 69	91 70	81 68	81 68	84 67	82 70	75 65	78 65	74 59	73 59	82 69	89 72	85 71	80 48	64 43	69 42	72 57	64 45	69 40	74 52	72 55	79.1 59.4		
MILLINGTON 1 SE	18	MAX MIN OBS	83 60 68	86 68 52	80 52 53	78 53 55	77 55 57	79 57 54	80 56 59	82 56 59	87 68 65	92 68 65	94 65 68	89 68 68	81 65 68	82 71 65	82 65 65	78 60 69	80 69 71	74 60 69	74 69 71	83 71 72	88 72 54	83 72 43	81 67 43	67 68 40	74 74 58	74 44 44	68 38 49	74 55 55	79 55 55	79.9 58.7			
NORTHERN CENTRAL	06																																		
ABERDEEN PHILLIPS FLD	16	MAX MIN	82 64			74 58	75 59	78 56	79 57		90 72	88 67	80 68	81 69	82 70					71 61	71 60	80 71	87 74	87 74			69 45	74 59	71 46	66 39	72 50	72 50	77.4 M		
BALTIMORE WSO CITY	MID	MAX MIN	88 69	87 69	79 62	78 62	79 60	78 64	81 65	80 69	90 72	95 75	94 76	83 72	82 73	85 74	83 72	72 67	84 65	74 62	70 70	78 75	89 70	84 75	82 50	64 46	65 48	75 66	66 48	70 53	78 61	72 61	79.5 63.9		
BENSON POLICE BARRACKS	17	MAX MIN	87 61	87 67	84 51	81 50	80 49	79 55	83 54	81 55	88 60	96 65	94 67	84 62	79 63	84 65	81 68	79 60	80 60	77 56	71 70	79 60	88 70	89 70	83 47	67 38	68 38	75 54	75 41	68 36	76 47	75 54	80.6 55.9		
BOYDS 2 NW	18	MAX MIN	86 63	84 67	80 56	76 52	75 53	77 62	79 60	79 60	89 66	94 66	90 65	83 65	77 67	85 69	81 61	72 63	76 60	71 56	65 53	72 59	85 68	84 71	81 48	62 38	63 39	70 53	66 41	67 39	77 47	70 59	77.2 57.6		
CATOCTIN MOUNTAIN PARK	17	MAX MIN OBS	78 63 65	77 65 53	74 51 52	70 52 57	69 57 60	69 61 64	79 61 64	74 61 64	82 69 68	84 68 67	81 62	72 62	78 66	74 62	66 59	68 59	67 54	61 55	69 57	77 65	77 65	75 65	58 65	57 40	65 51	60 37	63 38	70 49	70 54	71.2 56.1			
CLARKSVILLE 3 NNE	17	MAX MIN	85 57	85 63	82 48	75 48	76 50	77 56	80 55	80 61	90 63	92 64	85 65	78 67	84 68	83 67	74 64	77 60	75 54	72 59	78 59	88 71	85 70	83 52	63 36	63 55	63 39	65 34	71 41	70 53	67 41	77 53	76 53	78.9 55.8	
CONOWINGO DAM	MID	MAX MIN OBS	88 59 64	88 64 51	83 50 49	79 50 50	79 49 50	84 54 55	86 55 63	81 64 67	88 64 62	93 64 62	91 63 63	83 70 70	81 61 59	81 59 56	83 56 55	87 55 68	83 55 68	77 55 68	73 55 68	79 68 86	82 68 44	79 68 40	86 44 40	69 37 54	81 54 42	71 42 40	79 44 50	76 50 50	75 50 50	80.4 55.5			
DAMASCUS 2 SW	19	MAX MIN	85 64	84 67	77 53	76 53	75 62	77 62	80 61	79 59	89 63	92 68	88 65	78 66	84 68	78 64	67 62	77 60	72 54	63 58	72 59	85 69	82 71	78 47	63 36	62 42	71 53	63 40	67 40	75 46	69 57	76 57	76.1 57.6		
EMMITSBURG 2 SE	17	MAX MIN	83 55	82 66	75 49	75 49	73 49	75 58	76 54	86 58	86 60	88 61	92 62	76 64	78 66	83 64	76 60	65 60	76 60	70 59	66 59	71 60	83 68	83 65	81 49	60 37	62 35	70 53	69 38	69 32	75 44	75 51	75.6 55.1		
FREDERICK POLICE BRKS	17	MAX MIN	87 64	86 69	86 54	78 52	76 63	77 63	82 60	80 60	91 64	96 70	94 70	90 67	79 68	87 70	86 63	77 63	78 61	79 60	70 60	75 69	85 70	86 65	85 62	62 41	64 41	72 54	72 46	72 39	67 35	78 48	78 57	80.1 59.3	
MILLERS 4 NE	18	MAX MIN	81 62	79 65	74 52	75 50	73 51	77 56	76 59	85 62	90 68	85 67	77 65	83 65	79 65	70 61	74 57	71 57	66 57	73 57	85 61	80 69	77 70	60 69	62 46	62 39	69 54	65 39	65 35	73 46	70 54	70 54	74.9 56.5		
ROCKVILLE 1 NE	MID	MAX MIN	84 67	82 65	76 56	75 56	74 63	76 63	78 62	79 60	87 65	91 69	87 72	78 68	77 69	82 70	78 68	72 65	76 61	71 59	66 62	85 72	84 74	79 49	63 44	63 42	71 56	62 44	62 39	71 51	62 51	74 56	68 56	75.9 60.1	
TOWSON	18	MAX MIN	85 63	84 62	84 52	76 54	76 53	78 56	79 55	87 63	91 67	89 68	81 67	78 66	83 69	80 62	75 60	78 57	75 60	69 56	77 60	87 70	85 67	81 68	62 46	62 39	64 41	73 54	70 41	66 39	74 48	72 55	77.9 57.1		
UNIONVILLE	18	MAX MIN	88 58	84 63	77 46	77 46	76 50	78 59	80 55	89 56	93 63	87 65	79 63	78 67	86 69	82 67	72 63	76 58	74 52	67 60	73 60	86 67	84 67	80 48	62 35	63 33	73 53	65 35	68 32	76 41	75 51	77.5 54.7			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES (°F)

MARYLAND AND
DELAWARE
SEPTEMBER 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	
WESTMINSTER POLICE BRK	17	MAX	85	84	79	75	74	78	79	79	87	92	92	84	77	83	83	82	75	76	71	74	87	84	81	60	63	70	70	71	74	76		
		MIN	59	64	49	50	53	56	54	54	52	67	66	58	62	60	63	57	57	51	52	53	61	65	43	34	36	48	35	35	44	54		
WOODSTOCK	18	MAX	85	86	80	77	79	77	80	78	88	93	90	84	78	83	80	72	78	74	70	77	87	83	79	63	65	72	69	69	75	72		
		MIN	60	65	54	51	52	62	56	58	63	66	67	65	66	68	69	63	61	56	59	62	71	72	49	38	38	55	42	36	43	55		
APPALACHIAN MOUNTAIN CUMBERLAND 2	07	18	MAX	82	80	77	76	76	74	76	76	90	91	86	75	76	80	78	67	72	65	69	77	84	80	78	63	62	70	64	67	76	70	
		MIN	63	53	50	50	55	55	62	64	66	67	64	63	64	67	60	61	60	60	61	62	68	66	38	39	40	40	38	38	44	54	58	
FROSTBURG 2	07	MAX	79	76	71	69	67	67	68	69	76	83	84	73	63	67	76	69	60	64	59	64	71	76	72	61	55	54	63	57	60	68		
		MIN	54	62	51	49	49	54	54	59	60	63	64	61	58	59	62	56	56	55	53	55	56	64	61	35	34	38	36	36	37	55		
HAGERSTOWN	18	MAX	74	85	80	80	87	77	78	79	79	90	94	85	75	80	88	75	67	77	68	64	71	86	84	55	63	63	73	63	68	78		
		OBS	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
HANCOCK	08	MAX	84	85	81	78	75	75	74	76	78	92	93	83	75	79	85	85	66	75	67	68	74	83	82	68	62	62	71	63	67	75		
		OBS	54	61	47	41	40	53	55	58	60	63	63	62	63	62	67	60	59	56	57	61	61	65	65	37	35	38	37	35	35	43		
ALLEGHENY PLATEAU MC HENRY 2 NW	08	MAX	81	76	71	70	66	70	75	76	77	83	84	74	65	78	76	71	65	60	57	67	76	78	70	57	57	57	64	58	71	66		
		MIN	54	62	49	48	49	52	53	59	60	61	63	58	57	59	58	55	54	52	51	53	54	63	56	32	33	41	33	33	36	52		
OAKLAND 1 SE	17	MAX	77	74	69	65	69	73	76	77	83	79	73	73	74	78	78	67	66	59	65	72	78	74	71	57	59	63	62	67	67	64		
		MIN	48	64	44	48	52	49	54	58	60	57	66	61	58	64	59	57	56	54	54	56	62	63	38	31	37	48	30	28	44	51		
SAVAGE RIVER DAM	08	MAX	84	78	75	73	69	80	73	77	80	88	87	79	67	72	77	74	64	67	61	69	74	80	76	64	62	57	66	62	64	70		
		MIN	54	60	48	46	47	54	54	60	61	61	61	61	62	62	63	58	58	57	56	57	59	65	62	35	35	37	35	34	34	46		
DELAWARE NORTHERN NEWARK UNIVERSITY FARM	01	17	MAX	83	83	80	77	75	76	81	83	87	93	91	86	83	82	82	78	77	77	73	84	88	82	81	64	69	73	71	69	72	71	
		MIN	60	67	62	51	52	56	55	56	60	68	69	65	65	69	71	63	61	60	58	68	72	72	53	39	38	58	43	37	49	53		
WILMINGTON WSO ARPT	MID	MAX	84	83	79	76	75	77	80	80	86	93	91	80	82	82	81	70	77	74	73	82	87	81	81	64	67	73	63	66	72	71		
		MIN	64	61	56	54	59	57	57	58	63	69	71	66	68	69	68	63	61	59	59	72	74	74	47	41	42	54	43	40	49	55		
WILMINGTON PORTER RSVR	MID	MAX	84	81	77	74	73	74	79	80	85	91	89	77	80	80	82	69	74	73	72	80	86	80	79	61	67	70	60	70	71	69		
		MIN	63	64	57	57	63	59	57	59	62	70	71	66	68	69	67	63	64	60	58	70	73	72	45	41	45	56	45	42	51	54		
DELAWARE SOUTHERN DOVER	02	17	MAX	85	87	86	78	77	73	84	86	89	93	94	91	78	77	79	79	77	74	75	87	88	85	80	63	70	75	74	77	74	71	
		MIN	65	69	58	60	59	61	59	58	71	73	72	67	67	67	67	64	68	63	63	71	71	71	59	44	43	53	46	42	49	57		
GEORGETOWN 5 SW	08	MAX	82	85	86	78	72	75	76	78	82	87	92	94	79	80	84	84	82	78	77	78	84	89	82	72	62	70	73	61	69	68		
		MIN	61	65	57	50	59	62	53	54	56	63	67	69	68	69	73	67	68	62	61	62	73	71	69	42	41	47	45	37	46	57		
GREENWOOD 2 NE	18	MAX	82	85	77	76	75	77	80	83	86	91	92	86	81	83	83	83	77	74	78	84	87	81	80	62	64	72	62	68	74	70		
		MIN	60	69	54	51	58	61	53	54	58	65	68	67	65	67	72	67	66	62	62	69	71	71	53	41	42	55	46	38	47	58		
LEWES	17	MAX	86	84	82	75	74	75	77	85	92	88	78	81	81	82	82	78	75	75	84	87	83	85	62	69	73	71	68	75	70	79		
		MIN	66	73	66	64	66	62	58	60	69	73	70	69	70	72	74	69	70	66	65	73	74	74	61	48	47	64	53	43	53	62		
MILFORD 4 SE	17	MAX	85	84	80	75	74	75	76	77	86	92	94	90	82	81	84	80	79	77	76	84	86	82	84	64	68	73	69	69	75	70		
		OBS	61	69	56	55	64	63	53	53	57	69	71	69	66	67	74	67	67	62	63	71	72	72	55	44	42	62	47	39	49	59		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

MARYLAND AND
DELAWARE
SEPTEMBER 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	24	63	43	28	34	8	7	11	8	7	6	20	7	13	11	54	7	40	45	35	6	26	11	69	31	44	99	34	9	15		
	EVAP	23	33	15	18	21	13	8	16	12	26	9	24	11	4	10	25	3	21	12	1	-	14	23	3	16	5	17	16	12	8		
	MAX	92	88	88	87	83	83	84	88	85	93	94	95	81	78	87	88	77	84	79	67	79	92	84	80	74	66	76	74	74	72		
	MIN	63	67	50	61	58	59	65	63	64	64	65	69	68	69	72	65	66	60	58	61	66	74	70	43	46	49	47	46	47	54		
UPPER MARLBORD 3 NNW	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	EVAP	20	22	23	23	18	13	11	15	11	14	17	18	7	8	7	19	13	15	12	-	-	15	16	13	4	-	12	14	10	8		
	MAX	88	72	90	78	74	78	74	70	74	94	94	94	82	72	74	72	70	72	74	66	78	94	84	72	72	66	72	50	66	66		
	MIN	62	64	58	58	56	56	62	60	60	66	70	70	68	68	68	66	66	62	62	60	62	72	68	46	44	46	48	46	44	50		
ALLEGHENY PLATEAU 08																																	
SAVAGE RIVER DAM	WIND	16	30	48	26	35	22	13	19	16	18	19	19	10	17	22	32	22	41	26	16	15	28	57	74	28	29	66	27	21	29		
	EVAP	27	2	18	18	12	10	7	7	7	12	36	11	-	10	5	3	0	10	6	1	*	2	3	22	9	*	16	12	12	11		
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DELAWARE																																	
NORTHERN 01																																	
NEWARK UNIVERSITY FARM	WIND	36	44	35	40	43	29	13	15	19	24	19	26	16	33	34	94	54	24	92	21	17	47	63	49	20	41	42	23	21	21		
	EVAP	14	12	23	12	15	4	14	21	5	27	2	19	16	13	13	15	4	3	-	-	19	9	23	5	10	-	-	-	-	-		
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SOUTHERN 02																																	
GEORGETOWN 5 SW	WIND	46	99	86	50	38	37	19	22	13	23	29	44	18	8	27	28	32	21	59	25	45	52	25	89	45	50	73	53	32	48		
	EVAP	21	20	9	29	14	10	10	13	8	15	19	19	8	8	8	13	23	4	-	20	10	23	26	10	17	5	19	19	13	17		
	MAX	90	88	90	82	80	80	81	87	87	91	96	97	89	85	88	92	91	85	80	77	87	95	83	77	73	72	77	71	74	71		
	MIN	65	67	59	56	62	63	61	61	63	67	68	71	71	71	73	70	71	65	66	65	73	77	72	44	43	51	50	48	50	56		

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
SEPTEMBER 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	975006		BALTIMORE	39 20	76 52W	459	18	18		H	JOHN A HILTZ
DELAWARE											
DOVER	273002		KENT	39 9	75 31W	30	17	17		H	STATE DIV OF HIGHWAYS
GEORGETOWN 5 SW	357002		SUSSEX	38 38	75 27W	45	08	08	08	C	UNIV OF DEL SUBSTATION
GREENWOOD 2 NE	359950		SUSSEX	38 50	75 35W	45	18	18		H	DANIEL M SWARTZENTRUBER
LEWES	532200		SUSSEX	38 46	75 28W	15	17	17		H	BOARD OF PUBLIC WORKS
MILFORD 4 SE	591150		SUSSEX	38 44	75 28W	30	17	17		H	DAVID S SCHLOTT
NEWARK UNIVERSITY FARM	641100		NEW CASTLE	39 40	75 44W	90	17	17	17	C	UNIV OF DEL AGRIC FARM
WILMINGTON HSO ARPT	R 959500		NEW CASTLE	39 40	75 36W	79	MID	MID		C	NATL WEATHER SERVICE
WILMINGTON PORTER RSVR	960501		NEW CASTLE	39 46	75 32W	274	MID	MID		H	WATER DEPARTMENT

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

MARYLAND AND
DELAWARE
SEPTEMBER 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.

SUBSCRIPTION, PRICE AND ORDERING INFORMATION AVAILABLE FROM:

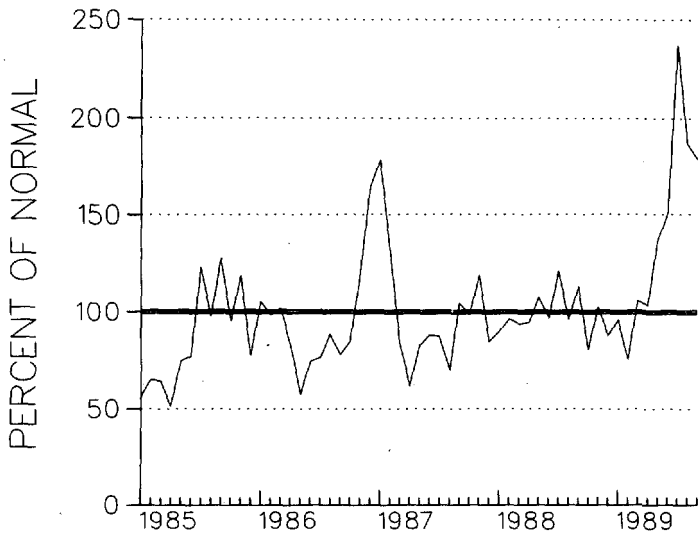
NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, NC 28801-2696

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

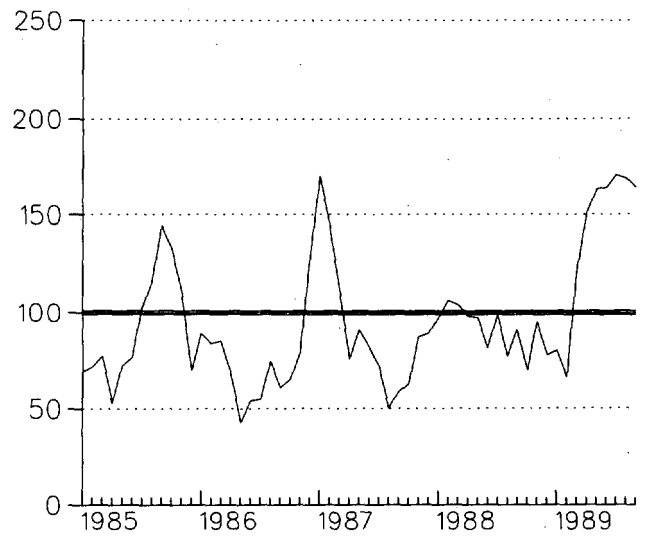
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
THREE MONTH RUNNING MEAN
FOR THE 57 MONTHS ENDING WITH SEPTEMBER 1989 DATA
DELAWARE

CLUSTER 1 - DIVISION(S):
NORTHERN 01

CLUSTER 2 - DIVISION(S):
SOUTHERN 02



CLUSTER 1



CLUSTER 2

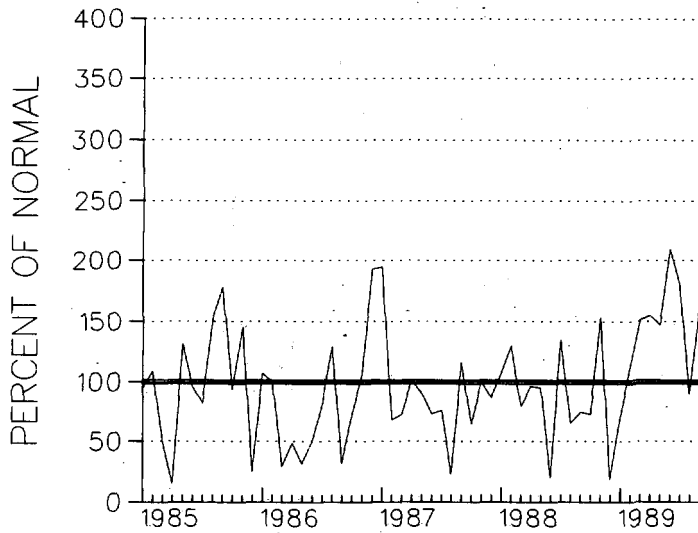
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
FOR THE 57 MONTHS
ENDING SEPTEMBER 1989
MARYLAND

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

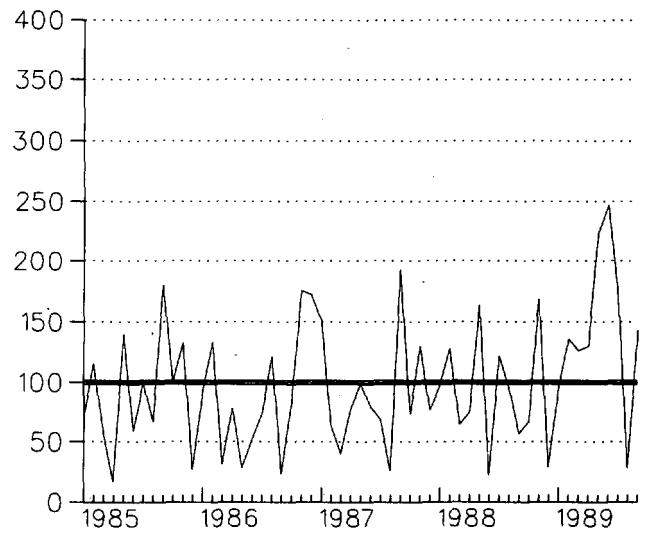
CLUSTER 2 - DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

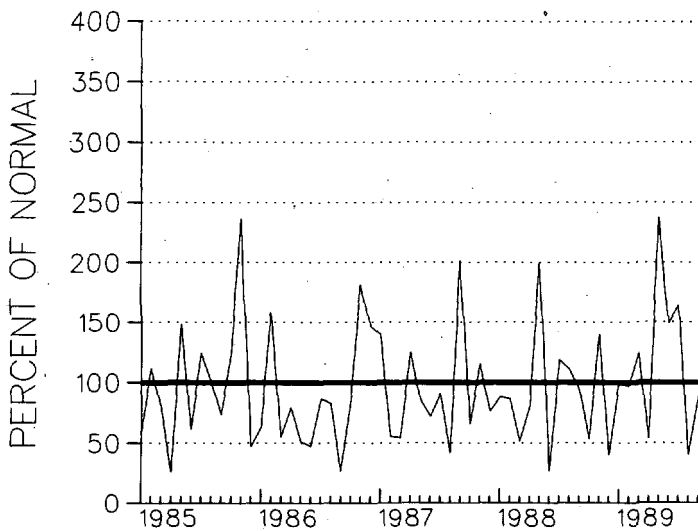
CLUSTER 4 - DIVISION(S):
ALLEGHENY PLATEAU 08



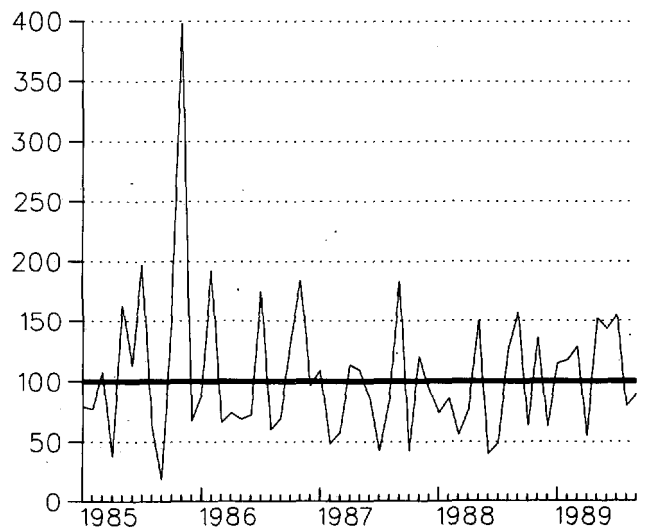
CLUSTER 1



CLUSTER 2



CLUSTER 3

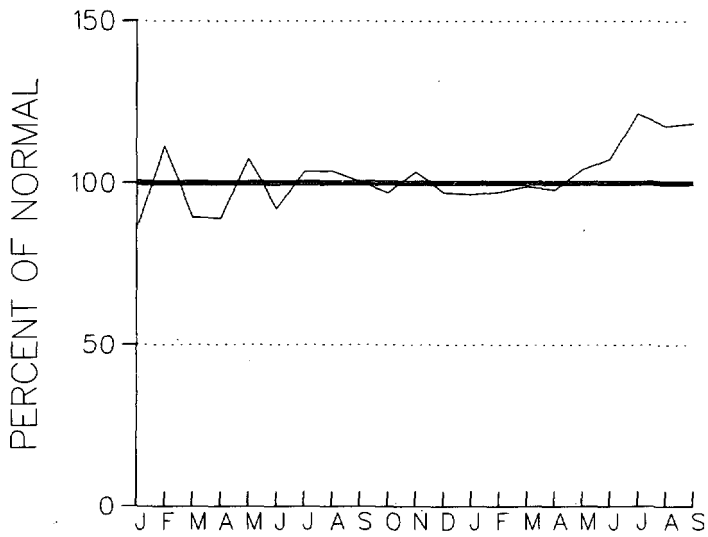


CLUSTER 4

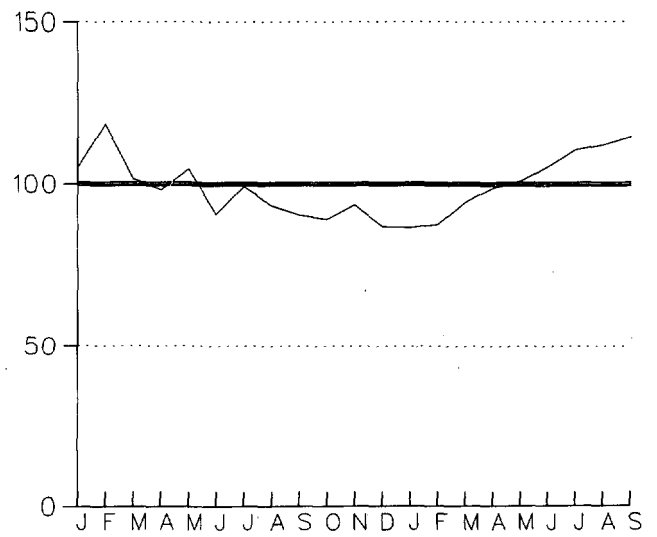
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
 FOR THE LAST 21 MONTHS
 ENDING SEPTEMBER 1989
 DELAWARE

CLUSTER 1 - DIVISION(S):
 NORTHERN 01

CLUSTER 2 - DIVISION(S):
 SOUTHERN 02



CLUSTER 1



CLUSTER 2

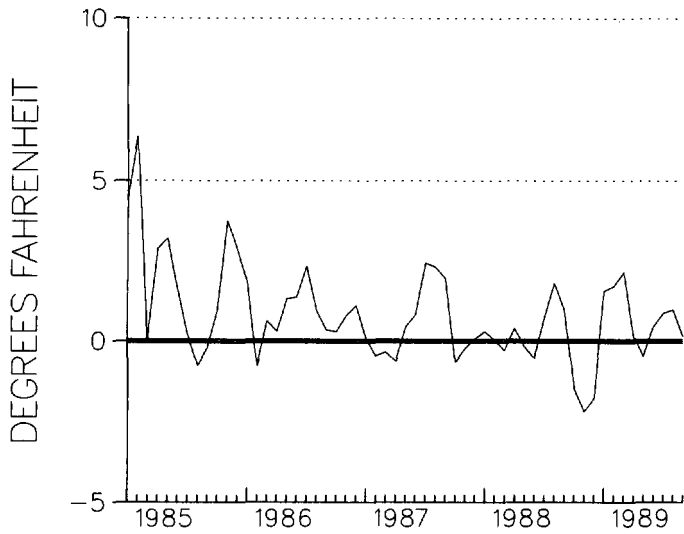
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)
 THREE MONTH RUNNING MEAN
 FOR THE 57 MONTHS ENDING WITH SEPTEMBER 1989 DATA
 MARYLAND

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

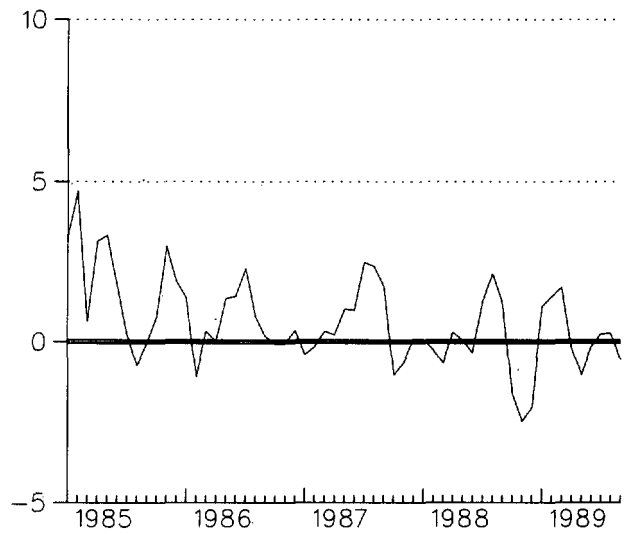
CLUSTER 2 -DIVISION(S):
 UPPER SOUTHERN 04
 NORTHERN EASTERN SHORE 05

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

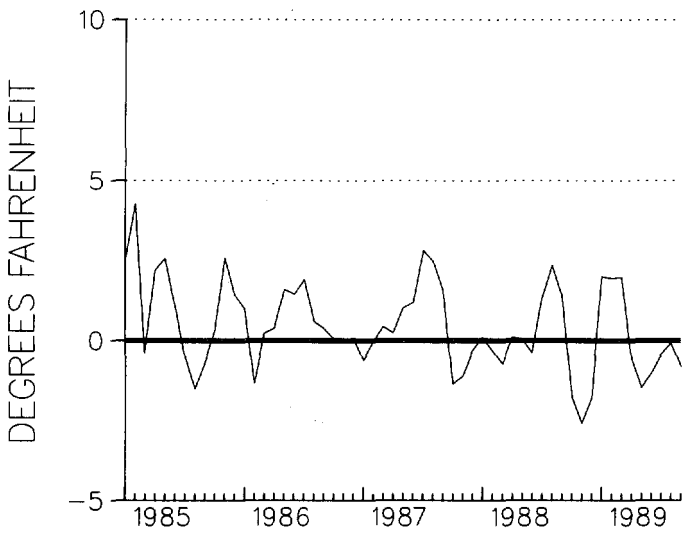
CLUSTER 4 -DIVISION(S):
 ALLEGHENY PLATEAU 08



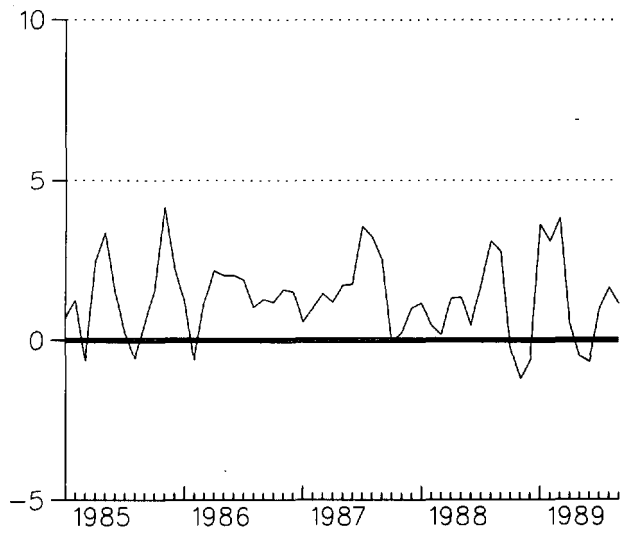
CLUSTER 1



CLUSTER 2



CLUSTER 3

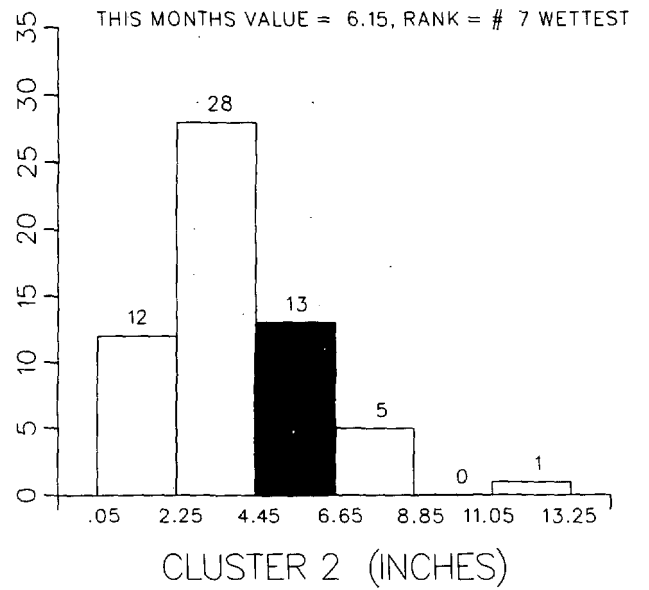
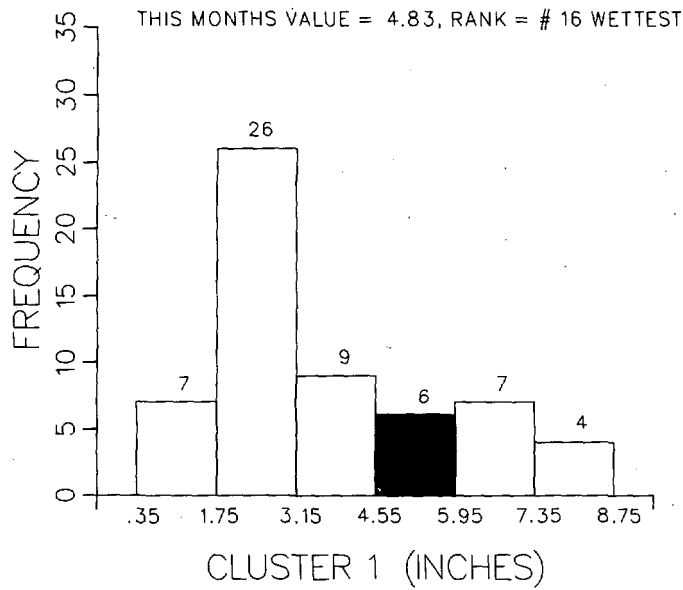


CLUSTER 4

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

CLUSTER 1 -DIVISION(S):
 NORTHERN 01

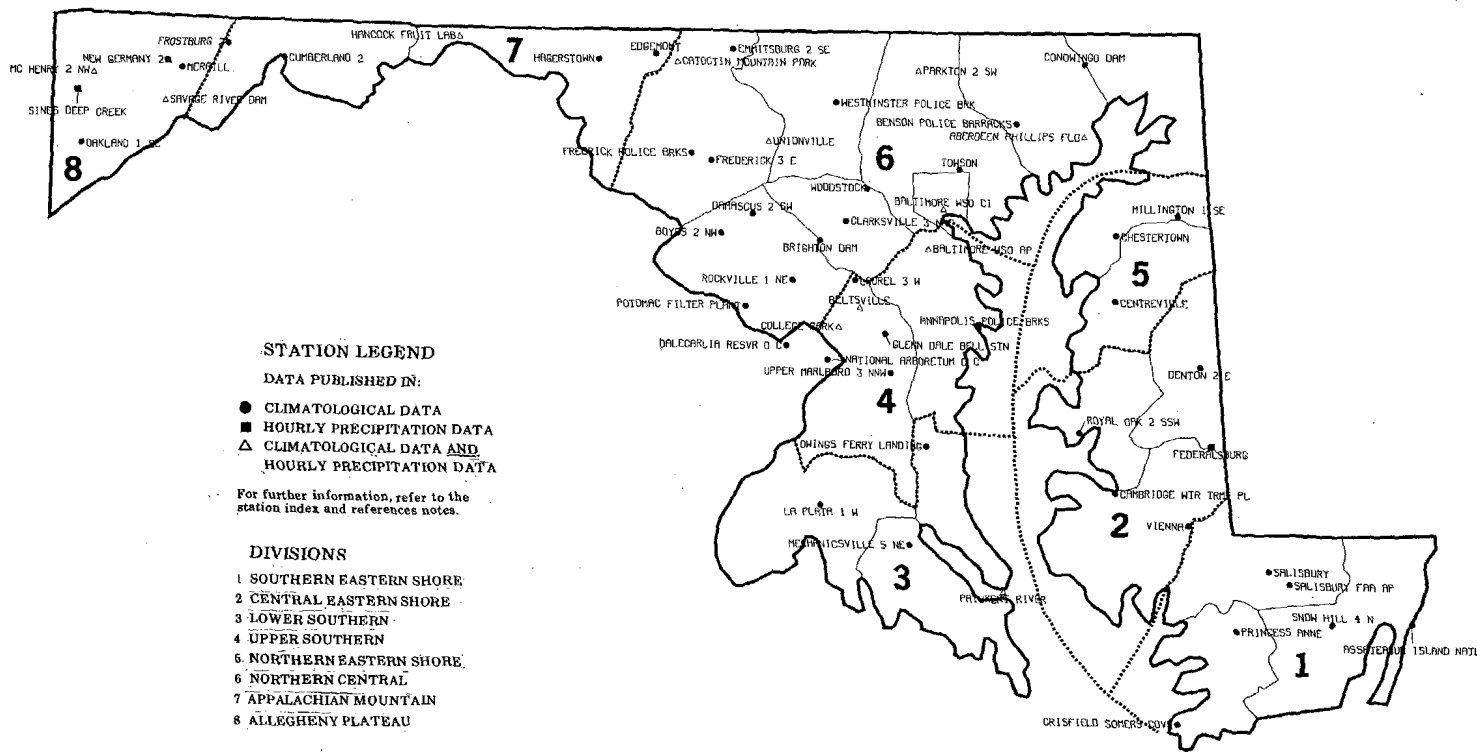
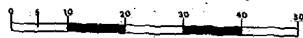
CLUSTER 2 -DIVISION(S):
 SOUTHERN 02



18 - MARYLAND & D.C.

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

76.0
40.0

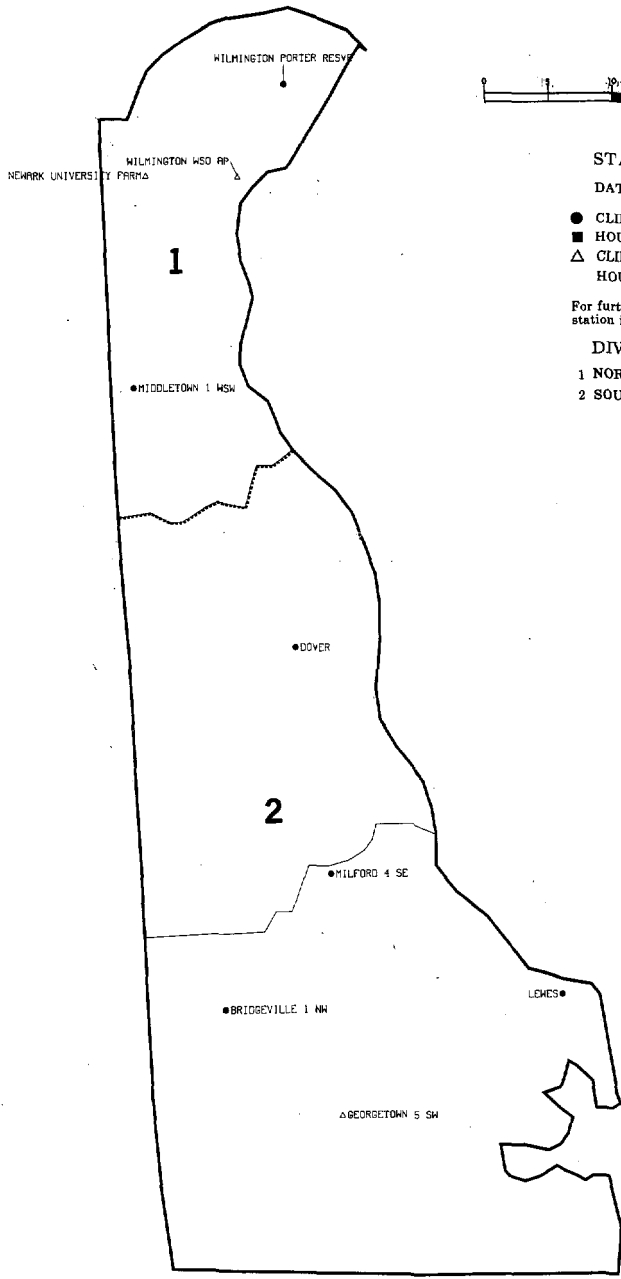
75.0

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

76.0
38.0

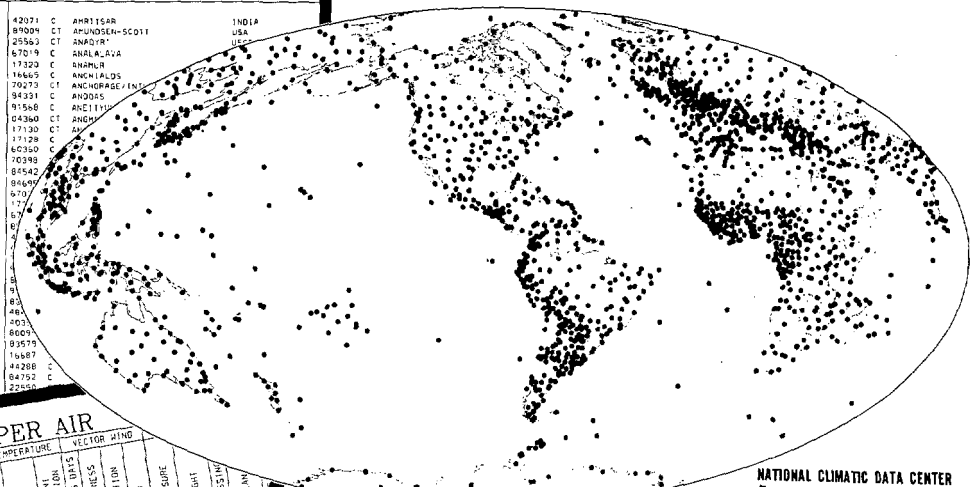
75.0

38.0

CLIMATIC DATA STATIONS - WORLDWIDE

STATION LIST WMO PUB 9 VOL 4

41246 C	ISOHARY MAJIS	OMAN	42071 C	ANDHRA	INDIA
40931 C	ABACAN	IRAN, ISLAMIC REP	89009 CT	AMUNDSEN-SCOTT	USA
47409 C	ABAS-CRI	JAPAN	25563 CT	ANADOLU	
71108 C	ABBOTSFORD, B.C.	CANADA	67079 C	ANAKARA	
64755 C	ABECHE	CHAD	17329 C	ANAPUL	
93091 C	ABERDEEN/DICE	U.K. HIGHLDS	16665 C	ANCHALDS	
41112 C	ABHA	SAUDI ARABIA	70270 CT	ANCHORAGE/IN	
55578 CT	ABIDJAN	COTE D'IVOIRE	86231 C	ANDRES	
72266 C	ABILENE, TX	USA	91586 C	ANETH	
41214 C	ABU DHABI BATEEN AIRPORT	U. ARAB EMIRATES	04280 CT	ANCH	
41217 CT	ABU DHABI INTL AIRPORT	U. ARAB EMIRATES	17130 CT	ANCON	
62640 C	ABU HAMED	SUDAN	17129 C	ANCON	
62795 C	ABU KHAYMA	SUDAN	60360 C	ANCON	
78550 C	ACAJUTLA	EL SALVADOR	70289 C	ANCON	
78655 C	ACAPULCO, GMD.	MEXICO	84542	ANCON	
90497 C	ACERQUO	VENEZUELA	84699	ANCON	
17352 CT	ADANA	TURKEY	97077	ANCON	
63450 CT	ADDIS ABABA	ETHIOPIA	17171	ANCON	
91672 CT	ADELPHI AIRPORT	AUSTRALIA	17170	ANCON	
41947 C	ADEN, YEMEN	YEMEN	17170	ANCON	
65595 C	ADIRAKE	COTE D'IVOIRE	17170	ANCON	
80820 C	ADIRAK	ALGERIA	17170	ANCON	
74879 CT	AEROP. INTL MEXICO, D.F.	MEXICO	17170	ANCON	
76644 CT	AEROP. INTL MERIDA, YUC.	MEXICO	17170	ANCON	
76294 CT	AEROP. INTL. MONTERREY, N.L.	MEXICO	17170	ANCON	
87592 C	AEROPORQUE	ARGENTINA	17170	ANCON	
17190 C	AFYON	TURKEY	17170	ANCON	
61929 C	AGADEZ	NIGER	17170	ANCON	
60299 C	AGADEZ	MOROCCO	17170	ANCON	
61974 C	AGALEGA	MAURITIUS	17170	ANCON	
4226 C	AGRA	INDIA	17170	ANCON	
18472 C	AGRIKONIA (AIRPORT)	GREECE	17170	ANCON	
62647 CT	AHMEDABAD	INDIA	17170	ANCON	
60560 C	AJA SEFRA	ALGERIA	17170	ANCON	
61490 C	AGUAZUL AIRPORT	MARITANIA	17170	ANCON	
07761 CT	AJACCIO	FRANCE	17170	ANCON	
31588 C	AJMAN	U.A.E.	17170	ANCON	
17194 C	AKHMETSE	FRANCE	17170	ANCON	
47582 CT	AKKIS	FRANCE	17170	ANCON	
61437 C			17170	ANCON	



NATIONAL CLIMATIC DATA CENTER



UPPER AIR

ASIA - JAPAN									
LEVEL	TEMPERATURE	VECTOR WIND	LEVEL	TEMPERATURE	VECTOR WIND	LEVEL	TEMPERATURE	VECTOR WIND	LEVEL
PRESSURE	HEIGHT	WIND	PRESSURE	HEIGHT	WIND	PRESSURE	HEIGHT	WIND	PRESSURE
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
900	900	900	900	900	900	900	900	900	900
800	800	800	800	800	800	800	800	800	800
700	700	700	700	700	700	700	700	700	700
600	600	600	600	600	600	600	600	600	600
500	500	500	500	500	500	500	500	500	500
400	400	400	400	400	400	400	400	400	400
300	300	300	300	300	300	300	300	300	300
200	200	200	200	200	200	200	200	200	200
100	100	100	100	100	100	100	100	100	100

SURFACE

EUROPE - NORWAY									
STATION	LATITUDE	LONGITUDE	ELEVATION	DATE OBS	PRESSURE	TEMPERATURE	VAPOR PRESSURE	PRECIPITATION	SUNSHINE
				DATE OBS	MEAN SEA LEVEL	MEAN	MEAN	DEPTH	NO. OF HRS
7055N 00840E	7055	0084	1001.5	1002.7	-10.9	-5.6	2.1	1.3	38
7051N 01520E	7051	0152	1001.3	1001.7	-14.8	-0.0	0.0	0.0	43
7041N 01520E	7041	0152	1001.2	1001.0	-14.8	-0.0	0.0	0.0	29
7022N 01910E	7022	0191	1001.4	1001.0	-14.8	-0.0	0.0	0.0	11
6724N 01420E	6724	0142	1001.4	1001.0	-14.8	-0.0	0.0	0.0	26
6724N 00930E	6724	0093	1001.4	1001.0	-14.8	-0.0	0.0	0.0	43
6523N 00520E	6523	0052	1001.4	1001.0	-14.8	-0.0	0.0	0.0	77
6023N 01140E	6023	0114	1001.4	1001.0	-14.8	-0.0	0.0	0.0	54
5862N 00530E	5862	0053	1001.4	1001.0	-14.8	-0.0	0.0	0.0	350

JANUARY 1988
VOL 41 NO 1

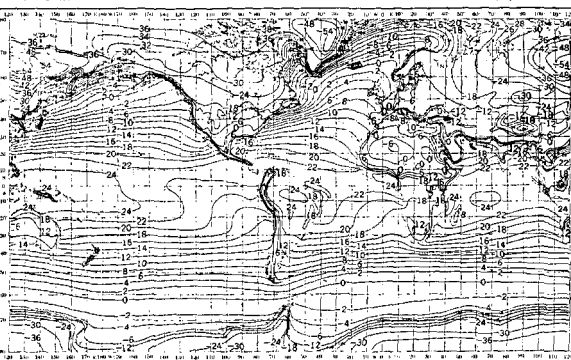
ISSN 0027-0296



MONTHLY CLIMATIC DATA FOR THE WORLD

PREPARED IN COOPERATION WITH THE WORLD METEOROLOGICAL ORGANIZATION

JANUARY DEW-POINT TEMPERATURE (°C) - MEANS



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

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

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

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

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA. 28801

Kenneth D. Hodson
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATTELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

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

CD
VALIDATED BY:

Charles Aiken
Ted Burlew
Charles Chillag
Betty Edstrom
Bruce Emory
Joyce Morgan

DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

*TO CHANGE YOUR ADDRESS, PLEASE RETURN A COPY OF
THE MAILING LABEL ALONG WITH YOUR NEW ADDRESS.*

**BULK RATE
POSTAGE & FEES PAID**
United States Department Of Commerce
NOAA Permit No. G - 19