

# CLIMATOLOGICAL DATA ANNUAL SUMMARY

## MARYLAND AND DELAWARE

### 1989

VOLUME 93 NUMBER 13



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**noaa**

NATIONAL  
OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

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

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

MARYLAND AND  
DELAWARE  
1989

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE										
<b>MARYLAND</b>												
SOUTHERN EASTERN SHORE 01												
ASSATEAGUE IS NATL SEA CRISFIELD SOMERS COVE	1.84	-1.31M	4.37		7.70	M	4.60	2.69	2.90	-94	3.74	.58
PRINCESS ANNE	1.92	-1.48	3.01	-29	6.15	2.11	4.52	1.55	2.30	-42	7.18	3.77
SALISBURY	1.85	-1.23	3.92	.51	7.00	3.01M	6.27	2.96	2.42	-93	8.27	4.65
SALISBURY FAA ARPT	2.29	-1.32	3.73	.40M	7.32	3.10	4.76	1.60	2.30	-1.08	6.16	2.61
SNOW HILL 4 N	2.06	-1.83	3.62	.02	8.10	3.50	3.93	.61	3.46	.03	3.78	-.02
-- DIVISIONAL DATA -->	1.96	-1.46	3.73	.42	7.25	3.10	4.87	1.71	2.63	-68	5.34	1.91
CENTRAL EASTERN SHORE 02												
CAMBRIDGE WATER TRMT P	2.69	-.80	3.26	.10	5.51	1.45	5.65	2.35	5.01	1.41	6.93	3.36
DENTON 2 E	2.57	-.75	3.84	.93	5.11	1.19	5.95	2.63	7.84	4.34M		
ROYAL OAK 2 SSW	2.77	-.67	3.65	.45	5.15	1.08	5.19	1.78	8.60	4.97	9.37	5.94
VIENNA	2.72	-.80M	3.07		7.01	3.09	5.43	2.09	3.36	.34	11.81	8.25
-- DIVISIONAL DATA -->	2.69	-.73	3.58	.46	5.70	1.77	5.56	2.29	6.20	2.77	9.37	5.89
LOWER SOUTHERN 03												
LA PLATA 1 W	M	1.47			2.71	-.17	4.99	1.23	4.12	.95	6.65	3.18
MECHANICSVILLE 5 NE	2.37		3.36		5.57		4.46		6.38		8.40	
OWINGS FERRY LANDING	2.46	-.68	2.55	-.17	4.47	.93	4.13	.89	7.61	3.81	7.27	3.56
PATUXENT RIVER	2.37		3.87		7.04		4.75		M		6.48	
TALL TIMBERS									M			
-- DIVISIONAL DATA -->	2.40	-.87	3.12	.21	5.52	1.77	4.37	1.24	6.31	2.72	7.33	3.70
UPPER SOUTHERN 04												
ANNAPOLIS POLICE BRKS	3.60		4.19		5.09		5.09		7.49		7.13	
BALTIMORE WSO ARPT R	3.07	.07	3.36	.38	4.24	.52	3.16	-.19	8.71	5.27	5.98	2.22
BELTSVILLE	2.83	-.08	3.25	.75	4.68	1.19	3.33	-.04	9.33	5.52	5.46	1.57
COLLEGE PARK	2.99	-.02	3.24	-.45M	4.80		3.23	-.14	9.08	5.23	4.77	.92
DALECARLIA RESVR DC	2.82	-.25	3.01	.08	4.20	.37	4.26	.66	9.41	5.64	5.59	1.91
GLENN DALE BELL STN	2.70	-.36	3.31	.56	4.12	.42	4.13	.61	10.28	6.34	6.19	2.32
LAUREL 3 W	2.23	-.36	4.04	1.35	5.29	1.63	3.90	.50	11.17	7.11	7.00	3.11
NATIONAL ARBORETUM DC	2.53	-.64	6.06	3.21M	3.49		3.96	.59	8.49	4.56	7.02	3.07
UPPER MARLBORO 3 NNW	2.47	-.81	2.54	-.19M	5.58		2.26	9.66	6.06	9.64	5.80	
-- DIVISIONAL DATA -->	2.92	-.14	3.67	.88	4.60	.92	4.07	.70	9.29	5.54	6.53	2.73
NORTHERN EASTERN SHORE 05												
CHESTERTOWN	2.93	-.35	4.04	1.09	4.67	.69	4.42	1.17	7.06	3.44	15.44	11.20
MILLINGTON 1 SE	3.16	-.00M	4.11		4.86	1.16	4.49	1.31	6.62	3.20	9.30	5.63
-- DIVISIONAL DATA -->	3.05	-.22	4.04	1.16	4.77	1.01	4.46	1.26	6.84	3.39	12.37	8.51
NORTHERN CENTRAL 06												
ABERDEEN PHILLIPS FLD	2.81		3.30		4.29	M	2.72		8.09		5.83	
BALTIMORE WSO CITY R	3.22	.15	3.48	.41	4.05	.12	2.39	-.1.12	9.31	5.68	6.25	2.54
BENSON POLICE BARRACKS	3.55	.12	3.59	.71	5.19	1.15	2.54	-.1.46	12.24	8.19	6.96	2.66
BOYDS 2 NW	2.63		3.41		5.01		2.04		10.05		3.13	
BRIGHTON DAM	3.00	.04	4.10	1.38	5.30	1.57	2.80	-.67	10.57	6.64	9.20	5.31
CATOCTIN MOUNTAIN PARK	2.57		2.10		4.74		1.13		10.92		4.75	
CLARKSVILLE 3 NNE	3.32		3.30		5.40		3.49		10.84		9.87	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

MARYLAND AND  
DELAWARE  
1989

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPARTURE												
<b>MARYLAND</b>														
SOUTHERN EASTERN SHORE 01														
ASSATEAGUE IS NATL SEA	6.64		8.88		4.38		5.12		4.33		M .05		M 53.50	
CRISFIELD SOMERS COVE	8.64	4.87	7.98	3.59	2.42	-.85	4.06	.85	2.33	-.76	M .44		M 47.47	
PRINCESS ANNE	7.70	3.88	6.45	1.82	M		4.05	.37	4.51	1.27	M			
SALISBURY	9.03	5.27	7.09	1.37	5.52	1.93	M		3.59	.48	1.93	-1.69		
SALISBURY FAA ARPT	8.80	4.40	8.17	2.45	5.90	1.96	5.05	1.32	2.69	-.37	3.06	-.65	M 59.80	
SNOW HILL 4 N	7.25	3.26	16.66	11.23	5.67	2.14	3.88	.08	3.10	-.28	1.59	-2.12	62.84	16.62
--DIVISIONAL DATA-->	8.01	4.08	9.21	4.01	4.78	1.19	4.43	.87	3.43	.24	2.19	-1.33	57.83	14.06
CENTRAL EASTERN SHORE 02														
CAMBRIDGE WATER TRMT P	8.00	3.69	M 2.80	-2.48	M 4.01	.29	M 3.02	-.26	M 1.56	-2.17	M 1.34	-2.37	49.77	4.57
DENTON 2 E	M				M		M		M		M			
ROYAL OAK 2 SSW	6.62	2.23	2.96	-2.13	5.24	1.52	4.81	1.35	2.37	-1.36	1.81	-1.93	58.54	13.23
VIENNA	6.45	2.51	3.05	-2.58	7.25	3.28	2.77	-.67	3.41	-.09	M .34	M 56.67		
--DIVISIONAL DATA-->	7.02	2.88	2.94	-2.28	5.50	1.85	3.53	.20	2.44	-1.09	1.58	-2.02	56.11	11.99
LOWER SOUTHERN 03														
LA PLATA 1 W	5.33	1.30	.59	-4.33	10.18	6.74	5.23	1.82	2.33	-.87	1.72	-1.70	M 52.50	
MECHANICSVILLE 5 NE	7.76		1.38		6.43		4.99		2.52		1.97		55.59	
OWINGS FERRY LANDING	6.93	3.27	.89	-3.30	6.71	3.19	5.80	2.53	2.74	-.59	1.56	-1.74	53.11	11.70
PATUXENT RIVER	7.46		3.14		5.06		4.30		2.59		M 2.28		53.93	
TALL TIMBERS	M		M		M		M		M		M			
--DIVISIONAL DATA-->	6.87	2.77	1.50	-3.12	7.10	3.60	5.08	1.81	2.55	-.79	1.88	-1.50	54.03	11.54
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	8.12		2.03		4.97		5.28		1.73		1.38		56.10	
BALTIMORE WSO ARPT	R	7.35	3.46	3.38	-1.24	3.64	.18	4.90	1.79	1.97	-1.14	2.12	-1.28	51.88
BELTSVILLE	6.87	2.73	.83	-3.88	5.11	1.40	5.43	2.19	2.61	-.36	.74	-2.60	50.47	8.39
COLLEGE PARK	5.24	1.18	1.06	-3.94	5.29	1.73	5.21	2.10	2.75	-.35	.98	-2.40	M 48.64	
DALECARLIA RESVR DC	6.78	2.74	.24	-4.36	4.51	1.09	5.56	2.26	2.90	-.25	3.17	-.32	52.45	9.57
GLENNDALE BELL STN	5.47	1.16	.70	-4.21	4.18	.52	5.32	2.02	2.38	-.96	1.01	-2.38	49.79	6.04
LAUREL 3 W	5.99	2.11	.06	-4.11	5.20	1.82	6.42	3.29	3.17	-.23	1.88	-1.46	57.35	15.48
NATIONAL ARBORETUM DC	5.97	1.77	.32	-4.78	6.08	2.50	5.11	1.94	M .83	M	.83	-2.53		
UPPER MARLBORO 3 NNW	5.39	1.33	.70	-3.96	4.88	1.15	6.83	3.54	M					
--DIVISIONAL DATA-->	6.35	2.36	1.04	-3.70	4.87	1.35	5.56	2.42	2.50	-.63	1.51	-1.87	52.91	10.56
NORTHERN EASTERN SHORE 05														
CHESTERTOWN	7.13	3.19	1.26	-3.35	4.83	1.25	5.73	2.57	2.26	-1.20	1.61	-2.26	61.38	17.44
MILLINGTON 1 SE	8.06	4.19	1.92	-2.82	6.07	2.28	5.06	2.01	2.26	-1.21	1.30	-2.28	M 57.21	
--DIVISIONAL DATA-->	7.60	3.67	1.59	-2.92	5.45	1.78	5.40	2.34	2.26	-1.14	1.46	-2.19	59.29	16.65
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FLD	R	7.50		1.34		5.06		4.81		1.51	M .59		M 47.85	
BALTIMORE WSO CITY	8.28	4.25	1.81	-2.76	3.52	-.14	5.08	1.99	1.92	-1.42	1.51	-2.27	50.82	7.43
BENSON POLICE BARRACKS	8.99	4.64	2.16	-2.75	4.24	.06	5.08	2.10	1.72	-2.17	1.39	-2.60	57.65	10.65
BOYDS 2 NW	2.83		.70		2.57		5.56		2.28		.85		41.06	
BRIGHTON DAM	6.90	3.36	.90	-3.23	4.30	.61	5.50	2.38	3.65	.48	2.10	-1.31	58.32	16.56
CATOCTIN MOUNTAIN PARK	5.98		.92		2.24		4.69		2.55		1.45		44.04	
CLARKSVILLE 3 NNE	5.81		2.01		4.38		4.83		2.44		1.30		56.99	

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TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

MARYLAND AND  
DELAWARE  
1989

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE										
CONOWINGO DAM	2.57	-.76	3.55	.70	4.67	.68	2.07	-1.75	8.15	4.42	5.26	.97
DAMASCUS 2 SW	3.12		3.09		4.97	2.16	10.14				4.48	
EMMITSBURG 2 SE	2.88		1.92		4.06	1.77	10.59				5.73	
FREDERICK POLICE BRKS	3.42		2.34	M	2.08		1.85		10.06		4.94	
FREDERICK 3 E	2.91	.03	2.55	.00	4.60	1.08	1.80	-1.81	9.29	5.43	5.31	1.29
MILLERS 4 NE	2.93		2.70		4.33		1.37		9.96		4.91	
POTOMAC FILTER PLANT	M 1.82	M	1.72		3.10		2.26		7.25		5.13	
ROCKVILLE 1 NE	3.12	.17	2.77	.11	5.32	1.78	2.97	-2.27	8.92	5.15	5.48	1.49
TOWSON	3.75	.44	4.28	1.10	4.71	.67	3.24	-7.74	14.64	10.63	8.70	4.66
UNIONVILLE	M 2.57		2.24	-1.17	4.41	1.03	1.40	-2.11	8.38	4.71	5.84	1.76
WESTMINSTER POLICE BRK	2.58	-.54	2.29	-.53	2.56	-1.36	1.28	-2.41	8.97	5.10	5.71	1.62
WOODSTOCK	3.53	.39	3.29	.53	4.64	.70	2.42	-1.20	11.36	7.59	6.01	1.98
-- DIVISIONAL DATA -->	3.07	-.06	2.98	.17	4.56	.74	2.14	-1.49	10.30	6.48	5.87	1.82
APPALACHIAN MOUNTAIN	07											
CUMBERLAND 2	2.65	.12	1.95	-.46	4.85	1.24	1.74	-1.62	6.03	2.42	7.30	3.52
EDGEMONT	2.42	-.65	2.11	-.51	3.80	.09	1.03	-2.62	10.76	6.94	4.56	.37
FROSTBURG 2	3.32		2.71		5.28		2.36		7.22		4.83	
HAGERSTOWN	M 1.85		2.02	-.24	3.93	.55	1.00	-2.50	9.26	5.52	4.54	.62
HANCOCK	2.35	-.26	1.98	-.38	4.72	1.23	1.49	-1.75	7.52	4.11	6.31	2.45
-- DIVISIONAL DATA -->	2.77	.02	2.17	-.33	4.70	1.04	1.65	-1.78	7.51	3.82	5.75	2.00
ALLEGHENY PLATEAU 08												
MC HENRY 2 NW	4.94		5.15		5.15		3.21		6.16		6.72	
MERRILL	3.13	.22	2.72	-.00	4.98	1.06	2.64	-1.03	5.51	1.64	5.52	1.92
OAKLAND 1 SE	4.06	.27	3.18	-.02	5.61	1.19	1.92	-2.59	6.00	1.56	6.44	2.08
SAVAGE RIVER DAM	3.15	.55	2.57	.22	5.43	2.05	1.74	-1.74	6.64	2.97	4.62	1.12
-- DIVISIONAL DATA -->	4.05	.52	3.63	.54	5.40	1.19	2.29	-1.90	6.27	2.15	5.93	1.79
DELAWARE												
NORTHERN 01												
NEWARK UNIVERSITY FARM	M 2.25		3.30	.57	4.50	.84	2.99	-.51	6.62	3.10	7.37	3.62
WILMINGTON WSO ARPT	R 2.48	-.63	2.75	-.24	3.69	-.18	2.76	-.63	6.57	3.34	5.43	1.92
WILMINGTON PORTER RSVR	3.11	-.18	3.33	.33	5.31	1.24	3.06	-.82	7.95	4.38	4.75	.75
-- DIVISIONAL DATA -->	2.80	-.33	3.13	.26	4.50	.73	2.94	-.60	7.05	3.69	5.85	2.16
SOUTHERN 02												
DOVER	3.35	.11	4.18	1.32	6.31	2.44	5.05	1.84	7.53	4.03	9.13	5.52
GEORGETOWN 5 SW	2.78	-.57	3.22	.20	6.77	2.80	6.48	3.28	3.37	.11	5.96	2.37
GREENWOOD 2 NE	2.61		2.86		7.88		5.90		4.92		7.23	
LEWES	M 2.76		3.10	-.23	7.85	3.64	5.23	1.82	3.34	-.20	6.04	2.34
MILFORD 4 SE	2.56	-.83	2.62	-.51	M 8.21		5.83	2.42	3.14	-.34	4.74	1.02
-- DIVISIONAL DATA -->	2.83	-.60	3.20	.06	7.20	3.17	5.70	2.39	4.46	1.06	6.62	2.97

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## TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

MARYLAND AND  
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STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPARTURE												
CONOWINGO DAM	9.84	5.47	2.14	-2.40	5.52	1.63	4.39	1.20M	2.99		2.01	-1.86M	53.16	
DAMASCUS 2 SW	4.25	.50	2.62	4.46	3.08		1.57		44.44					
EMMITSBURG 2 SE	4.95	2.18	1.80	4.76		2.16		1.85		44.65				
FREDERICK POLICE BRKS	3.13	.56	1.70	3.78	2.23		1.70							
FREDERICK 3 E	3.32	-.32	1.12	-2.59	2.94	-.61	4.96	1.83	2.02	-1.14	.96	-2.27	41.78	.92
MILLERS 4 NE	4.51	2.68	3.52	5.32	4.85		2.35		1.49		46.07			
POTOMAC FILTER PLANT	3.61	M	.47	2.89					1.14		M 37.06			
ROCKVILLE 1 NE	4.82	1.04	3.3	-4.13	3.17	-.29	5.82	2.82	2.86	-.20	1.59	-1.41	47.17	6.26
TOWSON	8.68	4.55	4.23	-5.56	5.67	1.52	6.19	2.76	4.40	.57M	2.15	M 70.64		
UNIONVILLE	2.12	-1.47	2.14	-1.62	2.36	-1.15	4.86	1.93	2.25	-.84	1.52	-1.78M	40.09	
WESTMINSTER POLICE BRK	2.66	1.34	1.84	-2.16	3.60	-.23	4.25	1.15	2.40	-.81M	1.82	M 39.96		
WOODSTOCK	5.96	2.40	1.96	-2.02	4.06	.06	4.95	1.83	2.63	-.65	1.70	-1.82	52.51	9.79
--DIVISIONAL DATA-->	5.64	1.74	1.72	-2.58	3.50	-.33	4.93	1.78	2.45	-.90	1.53	-1.99	48.69	5.38
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	7.01	3.82	1.32	-2.01	2.83	-.09	3.63	.92	2.35	-.06	.88	-1.76	42.54	6.04
EDGEMONT	3.83	.58	1.06	-2.77	1.85	-2.31	4.48	1.18	2.80	-.58	.52	-2.50	39.22	-2.78
FROSTBURG 2	1.0.03		1.90		4.16		4.09		3.17		1.85		50.92	
HAGERSTOWN	3.24	-.10M	.64		1.57	-1.73	4.15	1.02	2.70	-.32	.29	-2.57M	35.19	
HANCOCK	5.24	1.68	1.09	-2.21	2.30	-.92	4.08	1.15	3.15	.48	1.20	-1.39	41.43	4.19
--DIVISIONAL DATA-->	6.38	2.96	1.44	-2.07	2.72	-.47	3.99	1.02	2.84	.10	1.06	-1.78	42.98	4.53
ALLEGHENY PLATEAU 08														
MC HENRY 2 NW	7.08		3.65		2.71		3.69		4.33		3.53		56.32	
MERRILL	9.29	5.62	2.11	-1.55	2.35	-.51	2.83	-.05M	2.58		2.30	-.83M	45.96	
OAKLAND 1 SE	5.97	1.29	3.82	-1.78	2.69	-.42	4.29	1.12	3.66	.52M	1.75	M 49.39		
SAVAGE RIVER DAM	6.82	3.20	2.50	-1.11	3.09	.10	2.91	.03M	2.54		1.18	-1.50M	43.19	
--DIVISIONAL DATA-->	6.62	2.35	3.32	-.86	2.83	-.33	3.63	.50	4.00	1.00	2.36	-1.29	50.33	5.66
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM	13.58	9.26	2.31	-2.19	5.42	1.81	5.00	1.82	2.19	-1.00M	.38	M 55.91		
WILMINGTON WSO ARPT R	12.63	8.73	1.97	-2.06	4.31	.72	3.92	1.03	1.99	-1.34	1.27	-2.27	49.77	8.39
WILMINGTON PORTER RSVR	14.86	10.73	3.20	-1.22	4.75	.94	5.45	2.22	2.10	-1.66	1.27	-2.47	59.14	14.24
--DIVISIONAL DATA-->	13.69	9.69	2.49	-1.68	4.83	1.24	4.79	1.62	2.09	-1.29	1.27	-2.28	55.43	13.21
SOUTHERN 02														
DOVER	6.24	1.97	6.11	.99	7.64	3.50	3.73	.17	2.20	-1.33	1.35	-2.18	62.82	18.38
GEORGETOWN 5 SW	9.26	5.24	10.77	5.34	4.76	1.25	3.89	.41	5.03	1.74M	1.35	M 63.64		
GREENWOOD 2 NE	7.72		4.70		5.17		3.52		2.80		1.36		56.67	
LEWES	11.26	7.10	8.45	3.09	6.42	3.16	4.94	1.61	3.57	.08	1.27	-2.55M	64.23	
MILFORD 4 SE	6.14	1.76	4.95	.17	6.75	3.00	3.09	-.38	3.65	.22	2.03	-1.78M	53.71	
--DIVISIONAL DATA-->	8.12	3.89	7.00	1.76	6.15	2.48	3.83	.36	3.45	.08	1.50	-2.23	60.06	15.39

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

MARYLAND AND  
DELAWARE  
1989

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL														
	TEMPERATURE	DEPARTURE	TEMPERATURE																								
WESTMINSTER POLICE BRK	35.7	5.6	32.6	.4	40.6	-.4	50.2	-2.0	60.1	-1.4	70.9	1.0	73.5	-.7	71.8	-1.2	65.7	-.6	55.7	.8	42.8	-1.5	23.0	11.0	51.9	-.9	
WOODSTOCK	37.3	5.9	35.8	2.3	43.3	1.2	52.2	-.7	62.0	-.4	73.7	3.4	75.7	.8	74.1	.6	67.8	1.0	57.7	2.5	45.1	.4	24.5	10.7	54.1	.5	
--DIVISIONAL DATA-->	37.1	5.5	34.9	1.2	42.5	.2	52.1	-.1	61.4	-1.2	73.0	2.2	75.1	.0	73.6	-.3	67.3	-.1	57.5	1.7	44.6	-.6	24.0	11.3	53.6	-.2	
APPALACHIAN MOUNTAIN 07	M36.8	5.9	34.1	.9	43.2	1.1	50.8	-2.7	60.6	-2.2	71.1	.7	74.6	.2	72.2	-1.0	65.5	-1.1	55.6	.6	42.4	-1.7	24.4	-9.9	M52.6	-.8	
CUMBERLAND 2	32.3	M27.9	37.0		43.8		54.0		65.9		68.6		65.8		60.5		50.9		38.2		17.8		M46.9				
FROSTBURG 2	36.8	6.2	34.6	1.7	42.1	.0	52.4	-1.2	61.2	-1.9	72.3	1.3	73.2	-.2	65.9	-.9	56.2	.9	43.1	-1.2	22.7	11.5	M				
HAGERSTOWN	35.2	6.0	32.9	1.8	40.0	.0	48.7	-2.4	58.8	-1.4	70.3	1.8	73.8	.9	71.3	-.4	64.6	-.3	54.7	1.8	42.6	-.2	22.7	10.2	51.3	-.2	
--DIVISIONAL DATA-->	35.3	5.2	32.4	.2	40.6	-.4	48.9	-.3	58.7	-2.9	69.9	.4	72.3	-1.1	70.6	-1.7	64.1	-1.6	54.4	.1	41.6	-2.0	21.9	11.8	50.9	-1.5	
ALLEGHENY PLATEAU 08																											
MC HENRY 2 NW	32.1	26.0	38.2		44.1		53.5		65.6		70.0		66.1		60.6		50.8		37.4		17.3		46.8				
OAKLAND 1 SE	34.4	8.2	28.7	.7	M39.0	2.6	44.6	-2.6	54.0	-2.3	66.2	2.6	69.4	2.0	66.6	-.1	61.0	.5	50.6	1.1	39.0	-.2	18.5	11.4	M47.7	-.1	
SAVAGE RIVER DAM	32.7	6.3	29.6	1.7	39.1	2.3	45.9	-2.5	55.7	-2.1	67.7	2.3	71.3	1.8	67.8	-.8	62.5	.5	51.5	.7	39.0	-.1	19.9	10.3	48.6	-.1	
--DIVISIONAL DATA-->	33.1	7.6	28.1	.9	38.8	3.0	44.9	-2.3	54.4	-2.2	66.5	2.5	70.2	2.5	66.8	.0	61.4	.8	51.0	1.5	38.5	-.6	18.6	10.8	47.7	.2	
DELAWARE																											
NORTHERN 01																											
NEWARK UNIVERSITY FARM	36.3	4.6	35.2	1.5	42.5	.4	51.4	-.4	62.3	-.4	73.5	2.2	75.7	.0	74.5	.0	68.7	.8	57.9	1.6	45.1	-.7	25.0	10.6	54.0	-.2	
WILMINGTON WSO ARPT . R	36.0	4.8	34.3	1.1	42.1	.3	51.6	-.8	62.1	-.1	74.3	3.1	75.9	-.1	74.4	-.4	68.4	-.5	57.6	1.3	44.6	-.0	25.0	10.5	53.9	-.2	
WILMINGTON PORTER RSVR	36.7	5.9	34.6	2.0	41.5	.5	51.4	-.4	61.5	-.1	73.4	3.0	75.1	.2	73.7	-.0	68.0	1.1	58.6	2.9	44.4	-.8	24.7	10.4	53.6	.3	
--DIVISIONAL DATA-->	36.3	4.7	34.7	1.2	42.0	.0	51.5	-1.2	62.0	-.4	73.7	2.5	75.6	-.1	74.2	-.3	68.4	-.6	58.0	1.6	44.7	-1.1	24.9	10.8	53.8	-.2	
SOUTHERN 02																											
DOVER	39.8	5.4	38.1	1.7	M43.5	-.8	52.3	-2.4	62.8	-1.4	75.1	2.5	77.2	.2	75.9	.1	70.7	1.1	59.7	1.1	47.8	-.4	27.6	10.8	M55.9	-.3	
GEORGETOWN 5 SW	39.2	5.0	36.9	1.1	43.0	-.5	51.5	-2.1	61.7	-1.4	75.2	3.7	75.7	-.4	74.0	-.9	68.9	-.5	58.6	1.6	47.0	-.2	25.9	11.9	54.8	-.5	
GREENWOOD 2 NE	39.0	36.8	45.1				52.9		62.5		74.9		75.5		73.9		68.7		58.5		46.2		25.7		55.0		
LEWES.	40.8	6.2	38.0	1.9	45.1	1.8	54.4	1.3	M63.1	1.0	76.3	5.6	77.2	2.0	76.2	1.9	71.8	3.4	60.5	3.0	49.4	1.4	29.2	-.9	3M56.8	1.7	
MILFORD 4 SE	39.5	5.2	37.2	1.4	44.5	.2	53.1	-1.3	M62.8	-1.1	75.4	3.4	75.9	-.6	74.5	-.7	69.8	1.0	59.1	1.4	47.5	-.1	26.7	11.2	M55.5	-.2	
--DIVISIONAL DATA-->	39.7	5.2	37.4	1.3	44.2	.3	52.8	-1.3	62.6	-.8	75.4	3.6	76.3	.1	74.9	-.2	70.0	1.3	59.3	1.6	47.6	-.2	27.0	11.3	55.6	.0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# TEMPERATURE EXTREMES AND FREEZE DATA (°F)

MARYLAND AND  
DELAWARE  
1989

STATION	HIGHEST	DATE	LOWEST	DATE	LAST SPRING MINIMUM OF					FIRST FALL MINIMUM OF					NUMBER OF DAYS BETWEEN DATES									
					16° OR BELOW		20° OR BELOW		24° OR BELOW		28° OR BELOW		32° OR BELOW		32° OR BELOW		28° OR BELOW		24° OR BELOW		20° OR BELOW		16° OR BELOW	
					DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.
APPALACHIAN MOUNTAIN 07	94	7/11 -2	12/24	2/24	15	3/ 8 18	4/10 24	4/14 28	4/23 32	10/ 8 31	11/ 3 25	11/17 24	11/18 20	12/ 3 16	282 255 221	203 168								
	85	7/26 -11	12/23	3/ 9 10	4/11 20	4/13 24	4/24 27	5/ 8 32	10/ 9 31	11/ 4 22	11/19 15	11/19 15	12/ 4 16	255 222 205	194 154									
	94	9/11 -2	12/23	3/ 9 15	3/10 20	3/22 24	4/12 28	4/23 30	10/10 32	11/ 4 27	11/19 21	11/23 19	12/ 4 17	270 258 242	206 170									
	94	7/12 -6	12/23	3/10 16	4/11 20	4/14 23	4/24 27	5/ 4 31	10/ 9 31	10/23 28	11/ 4 21	11/18 20	12/ 4 18	269 221 204	182 158									
ALLEGHENY PLATEAU 08	87	7/24 -15	12/23	3/22 15	4/12 19	4/13 24	5/ 7 28	5/ 8 29	9/24 32	10/ 9 28	11/ 4 22	11/17 18	11/19 13	242 219 205	155 139									
	85	7/24 -22	12/24	4/11 14	4/14 18	4/24 21	5/ 4 28	5/ 6 32	9/24 31	9/28 28	10/23 23	11/ 4 17	11/19 11	222 204 182	147 139									
	95	7/ 8 -9	12/23	3/ 9 15	4/14 19	4/24 28	4/25 31	10/ 9 30	10/10 28	11/ 4 22	11/18 20	12/ 4 17	270 218 204	169 167										
DELAWARE																								
NORTHERN 01	94	7/27 2	12/22	3/ 8 15	3/ 8 15	3/20 23	4/23 28	4/24 30	10/10 32	11/ 4 27	11/22 23	11/24 17	11/30 15	267 261 247	195 169									
	R	96	7/26 4	12/23	3/ 8 16	3/13 20	3/13 20	3/23 27	4/14 32	11/ 4 30	11/18 28	11/22 22	11/23 20	12/ 9 14	276 255 254	240 204								
		95	6/27 4	12/22	3/ 8 15	3/ 8 15	3/20 22	3/23 27	4/23 32	11/ 4 32	11/19 26	11/22 23	11/24 20	12/ 9 16	276 261 247	241 195								
SOUTHERN 02	97	8/ 5 2	12/23	2/25 12	3/ 8 17	3/20 24	4/12 28	4/23 30	11/ 4 32	11/19 26	11/22 22	12/ 4 19	12/14 11	292 271 247	221 195									
	95	7/12 2	12/25	2/26 14	3/ 6 20	3/20 23	4/12 26	4/23 31	10/10 32	11/18 25	11/23 23	11/24 16	11/24 11	271 261 248	220 170									
	94	7/11 3	12/23	2/25 12	3/ 8 19	3/20 24	4/12 28	4/23 32	11/ 4 30	11/19 27	11/23 24	11/24 9	11/24 9	272 261 248	221 195									
	94	6/ 2 7	12/22	2/25 14	2/25 14	3/ 8 22	3/20 26	4/12 31	11/19 29	11/22 27	11/24 20	11/24 20	12/ 17 12	295 272 261	247 221									
MILFORD 4 SE	94	9/11 5	12/23	2/25 11	3/ 8 20	3/11 23	3/23 27	4/12 29	11/ 4 31	11/19 28	11/24 14	11/24 14	11/24 14	12/27 14	272 261 258	241 206								

SEE REFERENCE NOTES FOLLOWING STATION INDEX



MARYLAND AND  
DELAWARE  
1989

MONTHLY AND SEASONAL COOLING DEGREE DAYS  
BASE=65 DEGREES FAHRENHEIT

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM	
ALLEGHENY PLATEAU 08 MC HENRY 2 NW	0	0	6	0	15	83	171	87	43	1	0	0	406		
OAKLAND 1 SE	0	0	B 4	0	9	87	155	96	44	2	0	0	397	276	
SAVAGE RIVER DAM	0	0	0	0	12	114	209	131	66	2	0	0	534	417	
DELAWARE															
NORTHERN 01 NEWARK UNIVERSITY FARM	R	0	0	5	0	60	260	339	305	171	21	0	1161	1003	
WILMINGTON WSO ARPT		0	0	6	0	61	287	345	299	162	17	0	1177	1015	
WILMINGTON PORTER RSVR	R	0	0	6	0	54	257	322	277	152	18	0	1086	901	
SOUTHERN 02 DOVER		0	0	B 20	4	61	310	384	345	211	43	0	B1378	1179	
GEORGETOWN 5 SW		0	0	6	3	51	313	339	289	184	29	0	1221	1050	
GREENWOOD 2 NE		0	0	16	3	63	301	332	282	173	27	0	1197		
LEWES		0	0	18	7	B	60	344	385	350	240	45	0	B1453	946
MILFORD 4 SE		0	0	15	7	B	54	319	342	299	193	38	3	B1270	1101

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# TOTAL EVAPORATION AND WIND MOVEMENT

MARYLAND AND  
DELAWARE  
1989

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
<b>MARYLAND</b>														
UPPER SOUTHERN 04	BELTSVILLE	WIND	-	-	B 1159	750	521	B 6.18	883	B 915	1098	-	-	-
		EVAP	-	-	B 4.53	B 4.69	5.70	B 6.61	5.06	B 4.33	B 2.88	-	-	-
		MAX TEMP	-	-	M 70.0	M 77.8	89.9	92.4	M 87.7	82.4	M 68.4	-	-	M -
		MIN TEMP	-	-	M 44.4	M 55.5	68.0	70.0	M 67.3	60.3	M 47.8	-	-	M -
UPPER MARLBORO 3 NNW		WIND	-	-	B 217	-	-	-	-	-	-	-	-	-
		EVAP	-	-	B 4.92	B 5.13	B 6.08	6.23	4.58	B 4.20	B 3.77	-	-	-
		MAX TEMP	-	-	64.5	70.7	77.2	79.3	78.7	76.1	64.2	-	-	M -
		MIN TEMP	-	-	45.1	55.6	67.6	67.4	65.6	59.6	47.0	-	-	M -
ALLEGHENY PLATEAU 08		WIND	-	-	B 1513	1248	774	747	870	B 841	1040	-	-	-
SAVAGE RIVER DAM		EVAP	-	-	B 4.77	B 4.44	-	B 4.35	B 4.08	B 2.99	-	-	-	-
		MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-
		MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-
<b>DELAWARE</b>														
NORTHERN 01	NEWARK UNIVERSITY FARM	WIND	-	-	1304	1218	905	B 6.47	811	B 1055	B 1117	-	-	-
		EVAP	-	-	-	B 4.88	B 5.92	-	B 4.79	B 3.89	B 2.79	-	-	-
		MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-
		MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-
SOUTHERN 02	GEOGETOWN 5 SW	WIND	-	-	2492	2222	B 1921	1534	1429	B 1536	B 1729	-	-	-
		EVAP	-	-	7.60	B 5.81	B 7.51	B 8.33	-	B 4.45	B 4.07	-	-	-
		MAX TEMP	-	-	M 69.0	77.1	89.9	92.1	87.0	83.9	71.2	-	-	M -
		MIN TEMP	-	-	M 45.3	55.3	69.0	69.4	68.4	62.6	50.0	-	-	M -

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

MARYLAND AND  
DELAWARE  
1989

STATION	INDEX NO.	DIVISION NO.	COUNTY	LATITUDE	LONGITUDE	ELEVATION FEET	YEARS OF RECORD			OPENED OR CLOSED DURING YR	SEE REFERENCE NOTES	
							TEMP.	PRECIP.	EVAP.	MONTH OPENED	MONTH CLOSED	
MARYLAND												
ABERDEEN PHILLIPS FLD	0015	06	HARFORD	39 28	76 10W	57	64	64	0			C H
ANNAPOLIS POLICE BRKS	0193	04	ANNE ARUNDEL	38 59	76 30W	30	31	31	0			C HH
ASSATEAGUE IS NATL SEA	0335	01	WORCESTER	38 14	75 8W	7	22	22	0			C H J
BALTIMORE WSO APT	R 0465	04	ANNE ARUNDEL	39 11	76 40W	148	55	55	0			C C
BALTIMORE WSO CITY #	R 0470	06	BALTIMORE CI	39 17	76 37W	14	119	119	49			C H
BELT SVILLE	0700	04	PRINCE GEORG	39 2	76 53W	120	52	52				C H
BENSON POLICE BARRACKS	0732	06	HARFORD	39 30	76 23W	365	42	42				C H
BOYDS 2 NW	1032	06	MONTGOMERY	39 13	77 20W	581	37	37	0			C H
BRIGHTON DAM	1125	06	MONTGOMERY	39 12	77 1W	331	0	44	0			
CAMBRIDGE WATER TRMT P	1385	02	DORCHESTER	38 34	76 4W	10	95	95	0			C H
CATOCTIN MOUNTAIN PARK	1530	06	FREDERICK	39 39	77 29W	1610	23	23	0			C HH
CHESTERTOWN	1750	05	KENT	39 13	76 4W	39	84	84	0			C H
CLARKSVILLE 3 NNE	1862	06	HOWARD	39 15	76 56W	365	23	23	0			C H
COLLEGE PARK	1995	04	PRINCE GEORG	38 59	76 57W	90	103	103	0			C HH
CONOWINGO DAM	2060	06	HARFORD	39 39	76 10W	39	54	54	0			C H
CRISFIELD SOMERS COVE	2215	01	SOMERSET	37 59	75 52W	8	27	27	0			
CUMBERLAND 2	2282	07	ALLEGANY	39 38	78 45W	730	17	17	0			C H
DALECARLIA RESVR DC	2325	04	DIS COLUMBIA	38 56	77 7W	151	44	44	0			
DAMASCUS 2 SW	2335	06	MONTGOMERY	39 16	77 14W	722	17	17	0			C H
DENTON 2 E	2523	02	CAROLINE	38 53	75 48W	49	39	39	0			
EDGEMONT	2770	07	WASHINGTON	39 40	77 33W	905	0	51	0			
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 18W	420	34	34	0			C H
FREDERICK 3 E	3348	06	FREDERICK	39 25	77 26W	381	17	17	0			C H
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2172	18	18	0			C H
GLENN DALE BELL STN	3675	04	PRINCE GEORG	38 58	76 48W	151	69	69	0			C H
HAGERSTOWN	3975	07	WASHINGTON	39 39	77 44W	659	48	48	0			
HANCOCK	4030	07	WASHINGTON	39 42	78 11W	428	56	56	0			C H
LA PLATA 1 W	5080	03	CHARLES	38 32	77 0W	140	75	75	0			C H
LAUREL 3 W	5111	04	PRINCE GEORG	39 6	76 54W	400	99	99	0			C H
MC HENRY 2 NW	5832	08	GARRETT	39 35	79 22W	2680	19	19	0			C HHH
MECHANICSVILLE 5 NE	5865	03	ST MARYS	38 27	76 41W	100	28	28	0			C HHH
MERRILL	5894	08	GARRETT	39 36	79 5W	1791	0	38	0			C H
MILLERS 4 NE	5934	06	CARROLL	39 43	76 48W	860	3	3	0			C H
MILLINGTON 1 SE	5985	05	KENT	39 16	75 52W	30	93	93	0			C H
NATIONAL ARBORETUM DC	6350	04	DIS COLUMBIA	38 54	76 59W	49	43	43	0			C H
OAKLAND 1 SE	6620	08	GARRETT	39 24	79 24W	2421	92	92	0			C HHH
OWINGS FERRY LANDING	6770	03	CALVERT	38 41	76 40W	160	73	73	0			C H
PATUXENT RIVER	6915	03	ST MARYS	38 20	76 25W	38	14	14	0			C H
POTOMAC FILTER PLANT	7272	06	MONTGOMERY	39 2	77 15W	269	0	28	0			C H
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	41	41	0			C H
ROCKVILLE 1 NE	7705	06	MONTGOMERY	39 6	77 6W	440	42	42	0			C H
ROYAL OAK 2 SSW	7806	02	TALBOT	38 43	76 11W	10	42	42	0			C H
SALISBURY	8000	01	WICOMICO	38 22	75 35W	10	83	83	0			C H
SALISBURY FAA APT #	8005	01	WICOMICO	38 20	75 31W	48	42	42	0			C H
SAVAGE RIVER DAM	8065	08	GARRETT	39 31	79 8W	1495	39	42	39			C H
SNOW HILL 4 N	8380	01	WORCESTER	38 14	75 23W	30	74	74	0			C H
TALL TIMBERS	8757	03	ST MARYS	38 10	76 33W	12	2	2	0			C H
TOWSON	8877	06	BALTIMORE	39 23	76 34W	390	52	52	77			C H
UNIONVILLE	9030	06	FREDERICK	39 27	77 11W	430	50	48	0			C H
UPPER MARLBORO 3 NNW	9070	04	PRINCE GEORG	38 52	76 47W	98	34	34	34			C H
VIENNA	9140	02	DORCHESTER	38 29	75 50W	10	41	41	0			C H
WESTMINSTER POLICE BRK	9440	06	CARROLL	39 33	76 58W	765	11	11	0			C H

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

MARYLAND AND  
DELAWARE  
1989

STATION	INDEX NO.	DIVISION NO.	COUNTY	LATITUDE	LONGITUDE	ELEVATION FEET	YEARS OF RECORD			OPENED OR CLOSED DURING YR		SEE REFERENCE NOTES
							TEMP.	PRECIP.	EVAP.	MONTH OPENED	MONTH CLOSED	
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52 W	459	120	120	0			H
DOVER	2730	02	KENT	39 9	75 31 W	30	102	101	0			
GEorgetown 5 SW	3570	02	SUSSEX	38 38	75 27 W	45	44	44	36			C H
GREENWOOD 2 NE	3595	02	SUSSEX	38 50	75 35 W	45	5	5	0			C H
LEWES	5320	02	SUSSEX	38 46	75 8 W	15	46	46	0			
MILFORD 4 SE	5915	02	SUSSEX	38 54	75 28 W	30	94	94	0			C H
NEWARK UNIVERSITY FARM	6410	01	NEW CASTLE	39 40	75 44 W	90	77	77	33			C H J
WILMINGTON WSO ARPT	R 9595	01	NEW CASTLE	39 40	75 36 W	79	42	42	0			C C H
WILMINGTON PORTER RSVR	9605	01	NEW CASTLE	39 46	75 32 W	274	78	78	0			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## REFERENCE NOTES

### 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 the time period - 1951-1980. The normals for National Weather Service localities have been adjusted so as to be representative for the current observation site.

**TEMPERATURE EXTREMES AND FREEZE DATA:** Spring minimum dates are obtained from data for January through June; Fall dates are from July through December data. "NONE" indicates temperature threshold not reached. "MSG" indicates available data insufficient to determine date.

**MONTHLY DEGREE DAY TOTALS:** One heating (cooling) degree day is accumulated for each degree that the daily mean temperature is below (above) 65 deg. F

**SOIL TEMPERATURE EXTREMES:** The highest and lowest MAX and MIN temperature for each month and the year.

**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 DATA TABLES

- No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.
- \* Rain gage not read. Precipitation is included in the amount following the asterisks. Time distribution not known.
- // 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 monthly bulletins to determine date of last reading. (HAWAII stations)
- B Estimated total value for wind, evaporation, or cooling degree days.
- 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.
- R Amounts from recording rain gage.
- T Trace. An amount too small to measure.
- V Includes total for previous month(s). (See \* above)
- Z Same as M but the Z has overprinted a Negative sign or leading digit (eg. Z14.6 = M-14.6, Z08.2 = M108.2).

### SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

# Thermometers located in a rooftop shelter.

C Station is equipped with a 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 in Monthly "Climatological Data" publications.

J Station also published as a "Local Climatological Data" bulletin.

**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 "Climatological Data".

Cooling degree days for the calendar year are published in the "Climatological Data Annual Summary".

Additional precipitation data are contained in the "Hourly Precipitation Data" bulletin for each state, except Alaska.

The graphic displays appearing in this publication were first produced for the 1986 annual. The types of graphs and the information they portray may vary from year to year and from state to state in order to highlight climatic features of state, regional, and historical 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. Similar historical information for regular National Weather Service Offices is available from the "Local Climatological Data" annual bulletin.

Additional Information regarding the climate of this state may be obtained by writing to the address below or to any weather service office near you. 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:

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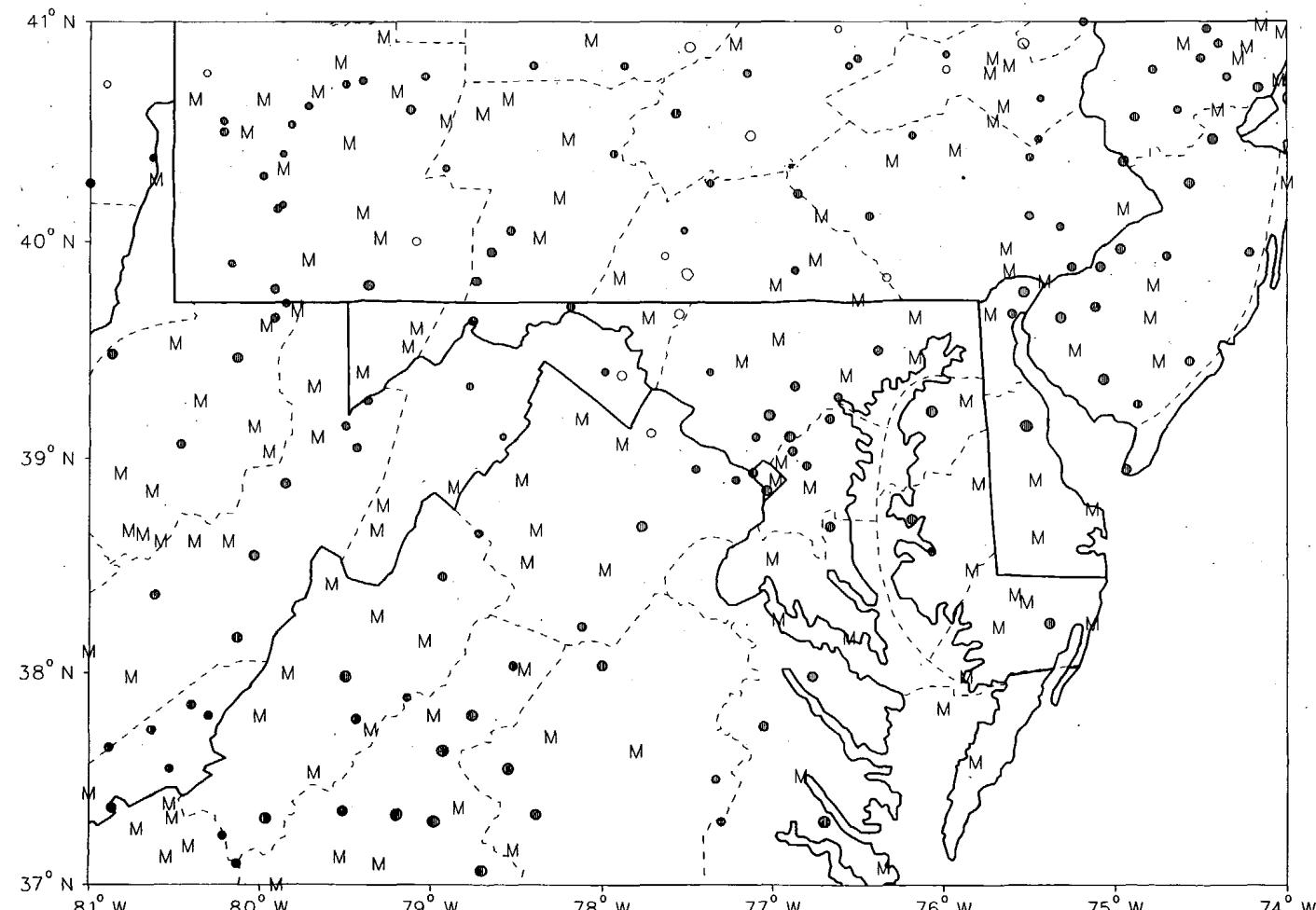
CUMULATIVE ANNUAL PRECIPITATION DEPARTURE FROM  
INDIVIDUAL STATION NORMALS (1951-1980)  
FOR 1989  
DELAWARE

M INCOMPLETE DATA FOR THE PERIOD

▽ EXACTLY NORMAL

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

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

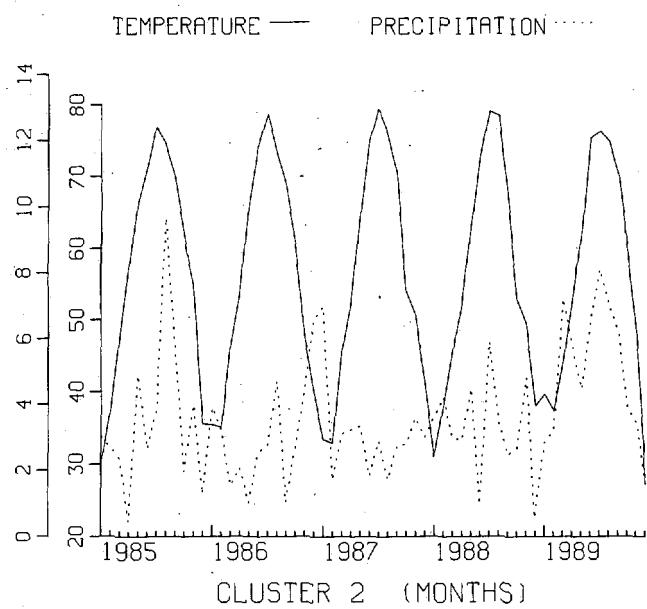
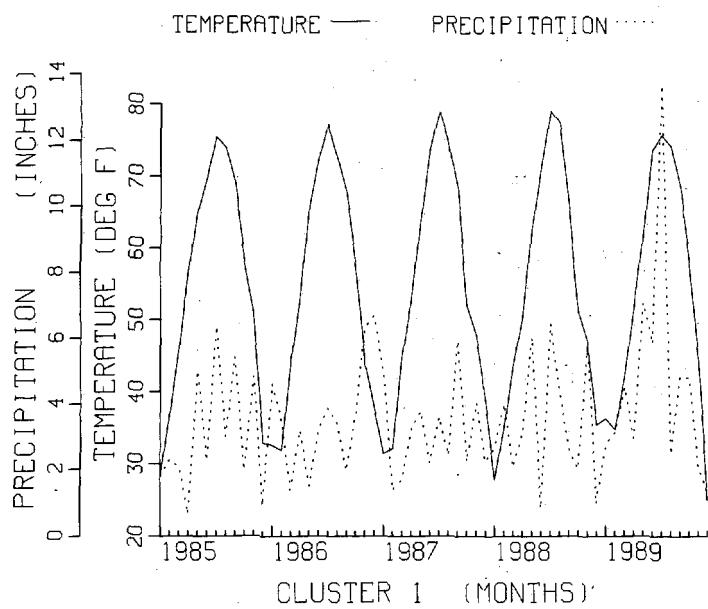


CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

MONTHLY TEMPERATURE AND PRECIPITATION FOR  
THE LAST 60 MONTHS  
ENDING DECEMBER 1989  
DELAWARE

CLUSTER 1 -DIVISION(S):  
NORTHERN 01

CLUSTER 2 -DIVISION(S):  
SOUTHERN 02



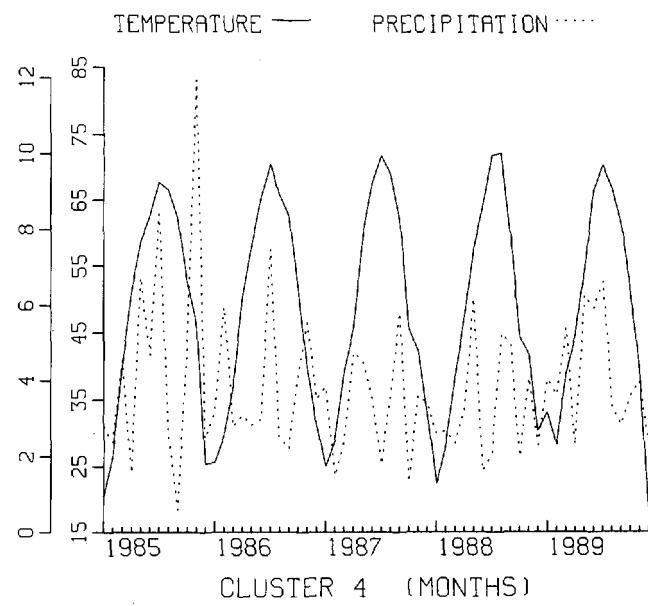
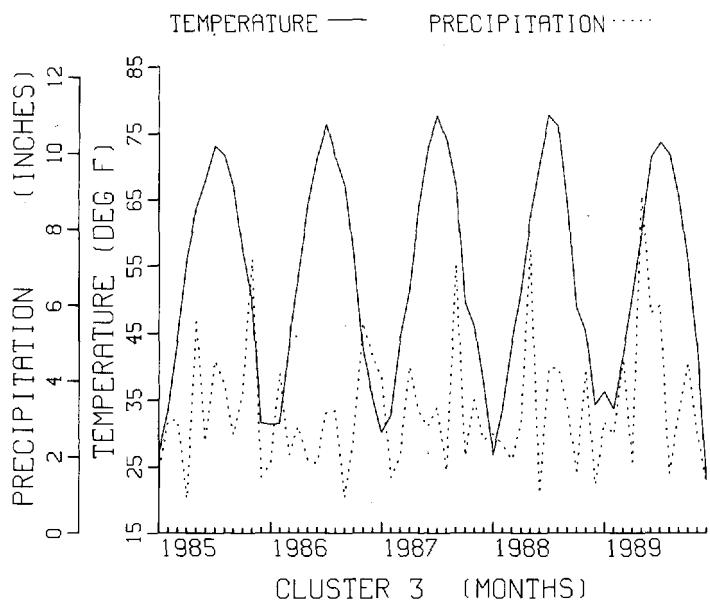
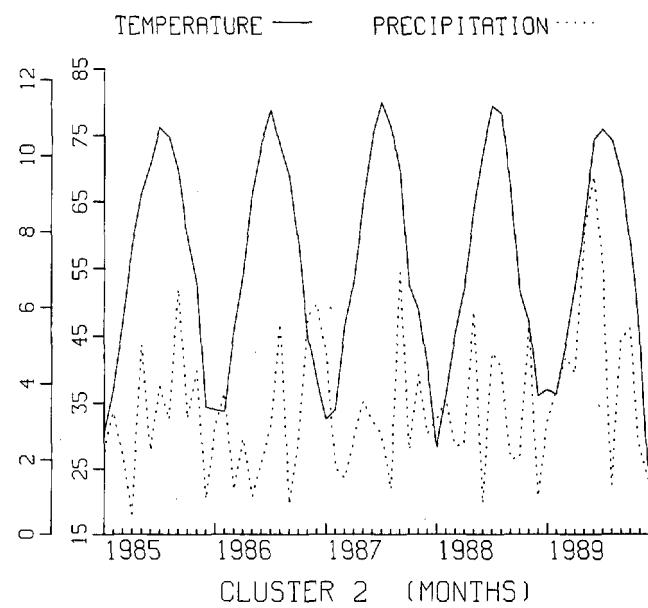
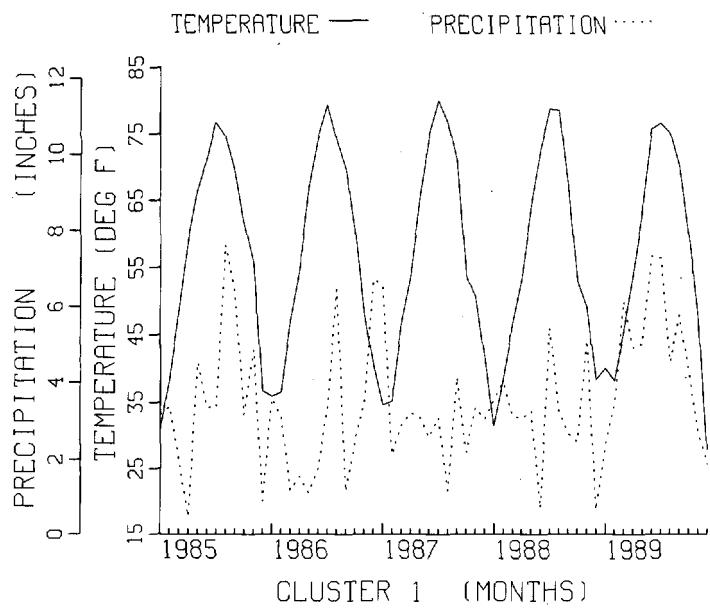
**MONTHLY TEMPERATURE AND PRECIPITATION FOR  
THE LAST 60 MONTHS  
ENDING DECEMBER 1989  
MARYLAND**

**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

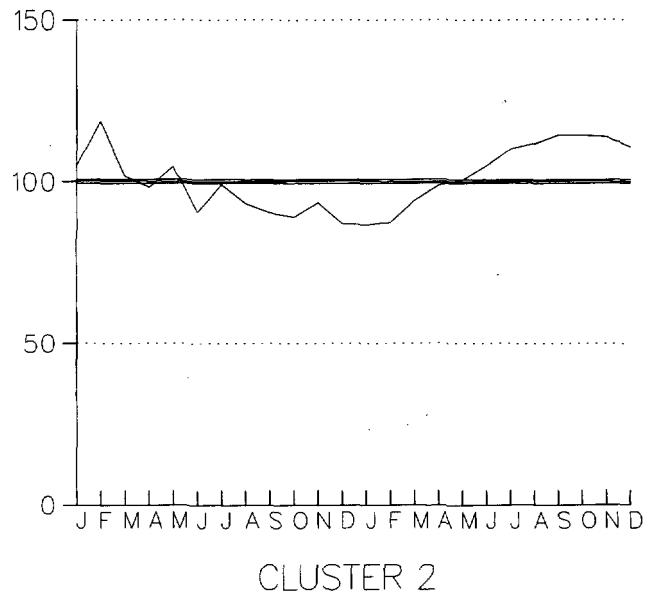
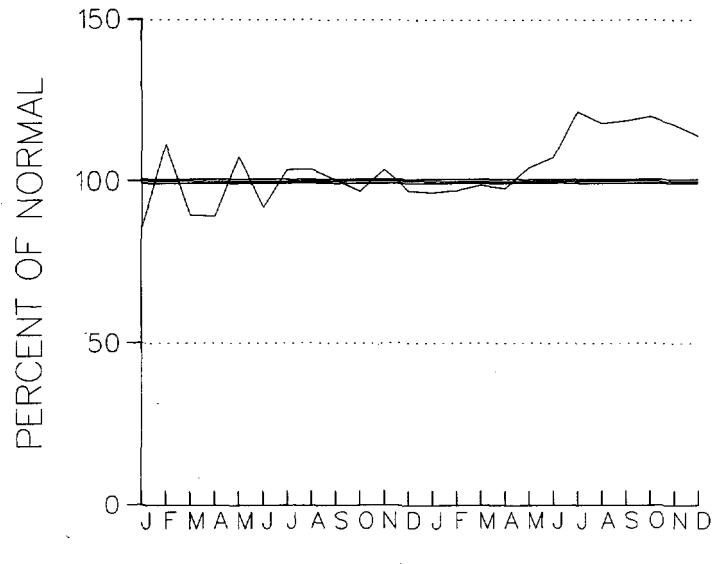
**CLUSTER 4 -DIVISION(S):**  
ALLEGHENY PLATEAU 08



CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
FOR THE LAST 24 MONTHS  
ENDING DECEMBER 1989  
DELAWARE

CLUSTER 1 -DIVISION(S):  
NORTHERN 01

CLUSTER 2 -DIVISION(S):  
SOUTHERN 02



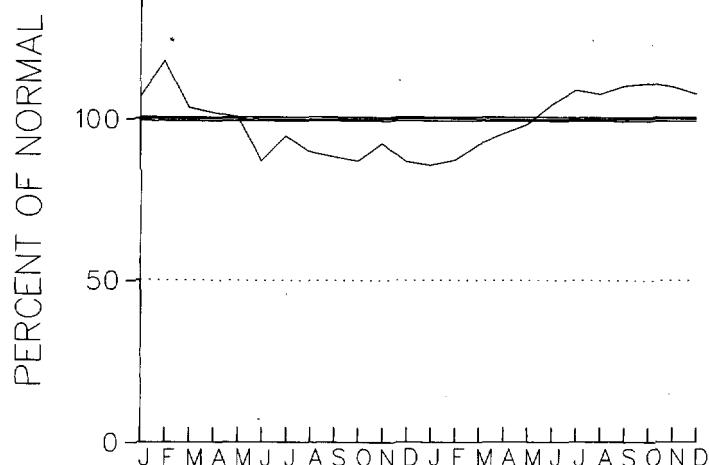
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
FOR THE LAST 24 MONTHS  
ENDING DECEMBER 1989  
MARYLAND

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

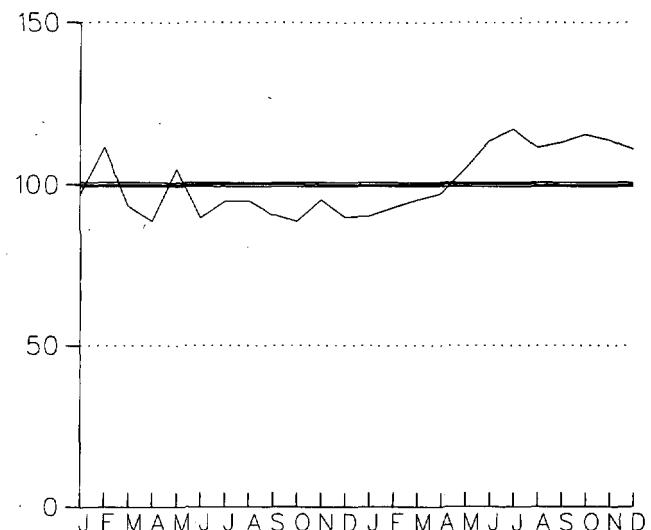
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NORTHERN CENTRAL 06  
APPALACHIAN MOUNTAIN 07

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

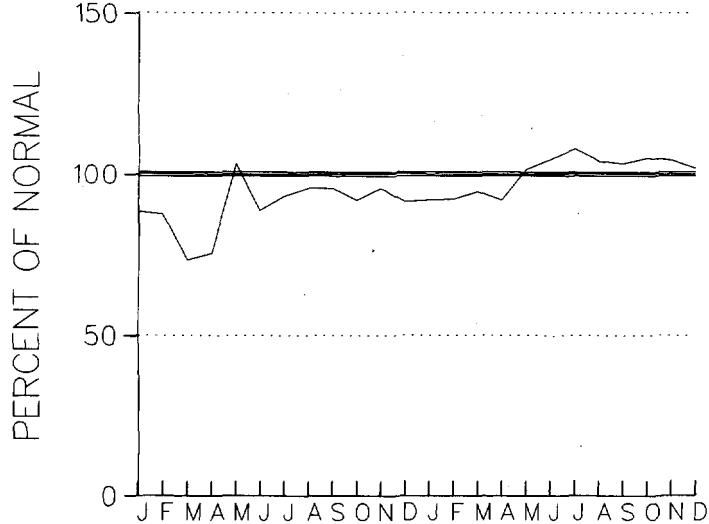
CLUSTER 4 -DIVISION(S):  
ALLEGHENY PLATEAU 08



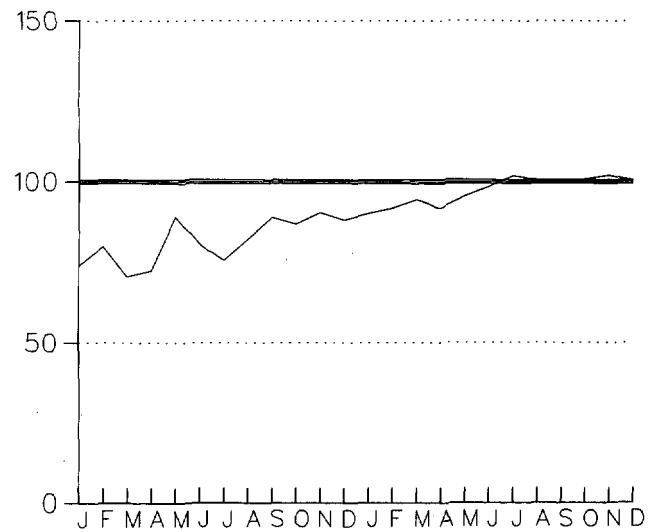
CLUSTER 1



CLUSTER 2



CLUSTER 3

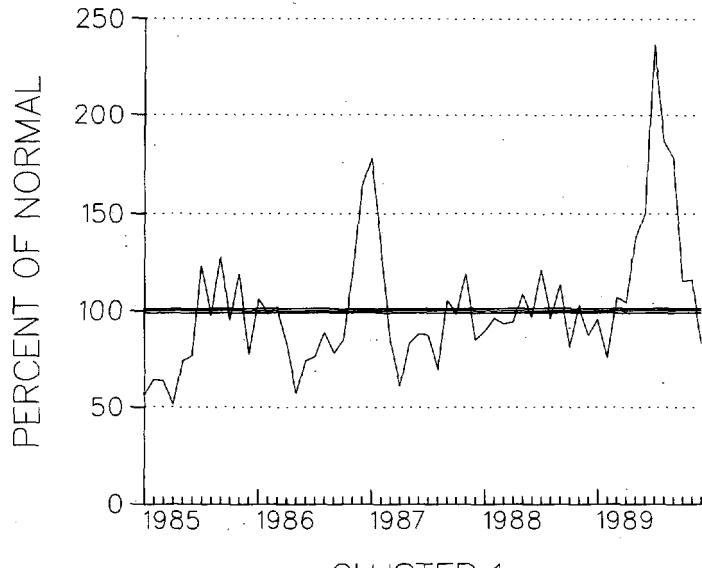


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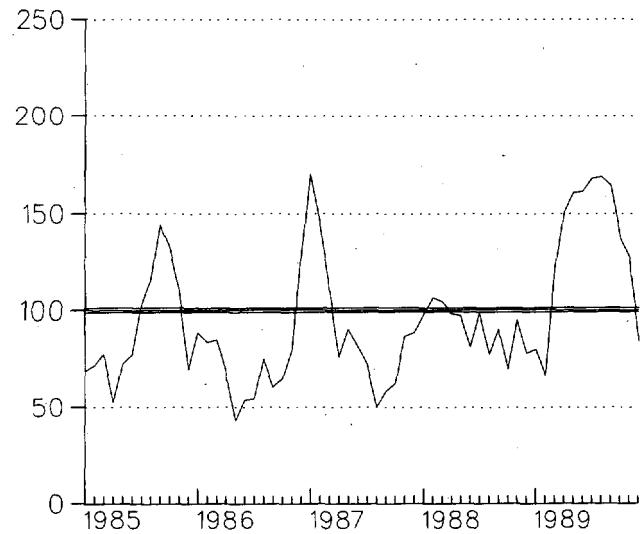
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
THREE MONTH RUNNING MEAN  
FOR THE 60 MONTHS ENDING WITH DECEMBER 1989 DATA  
DELAWARE

CLUSTER 1 -DIVISION(S):  
NORTHERN 01

CLUSTER 2 -DIVISION(S):  
SOUTHERN 02



CLUSTER 1



CLUSTER 2

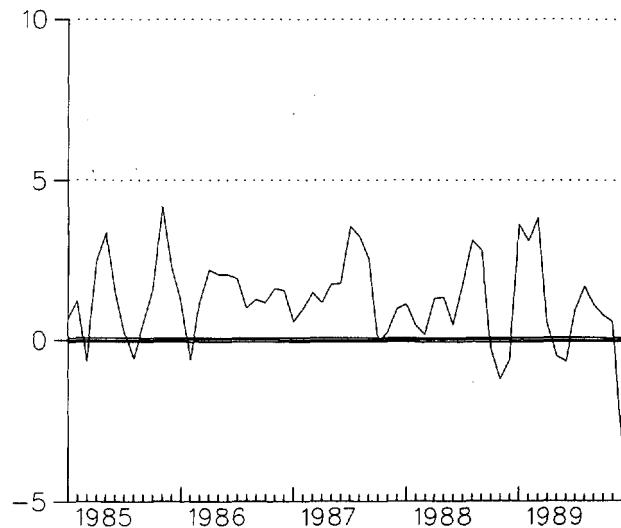
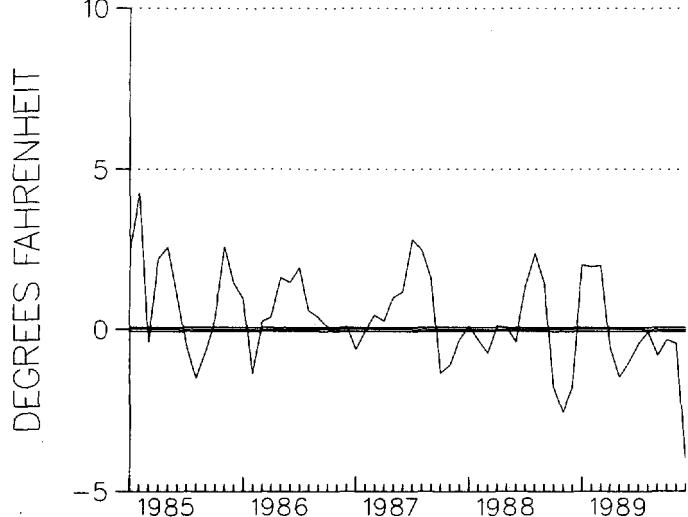
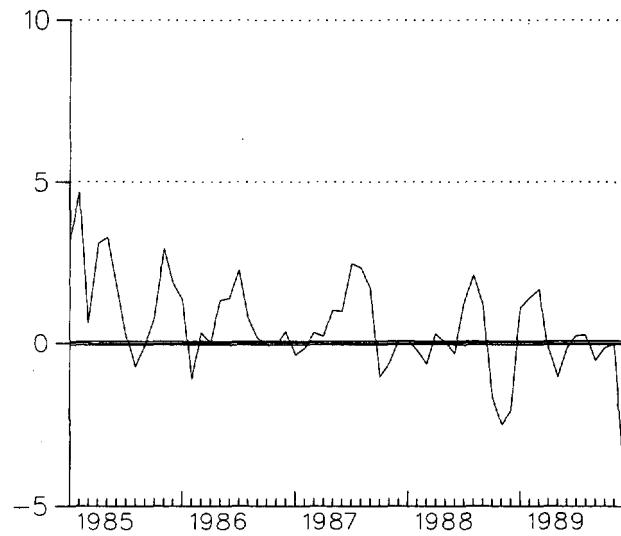
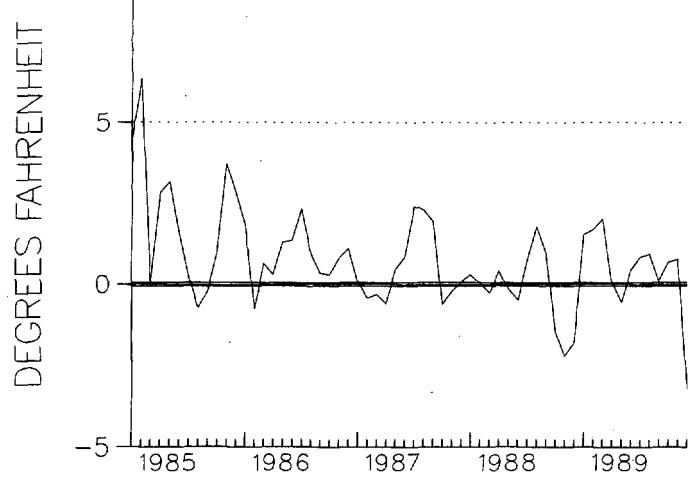
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THREE MONTH RUNNING MEAN  
FOR THE 60 MONTHS ENDING WITH DECEMBER 1989 DATA  
MARYLAND

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CENTRAL EASTERN SHORE 02  
LOWER SOUTHERN 03

CLUSTER 3 -DIVISION(S):  
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APPALACHIAN MOUNTAIN 07

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

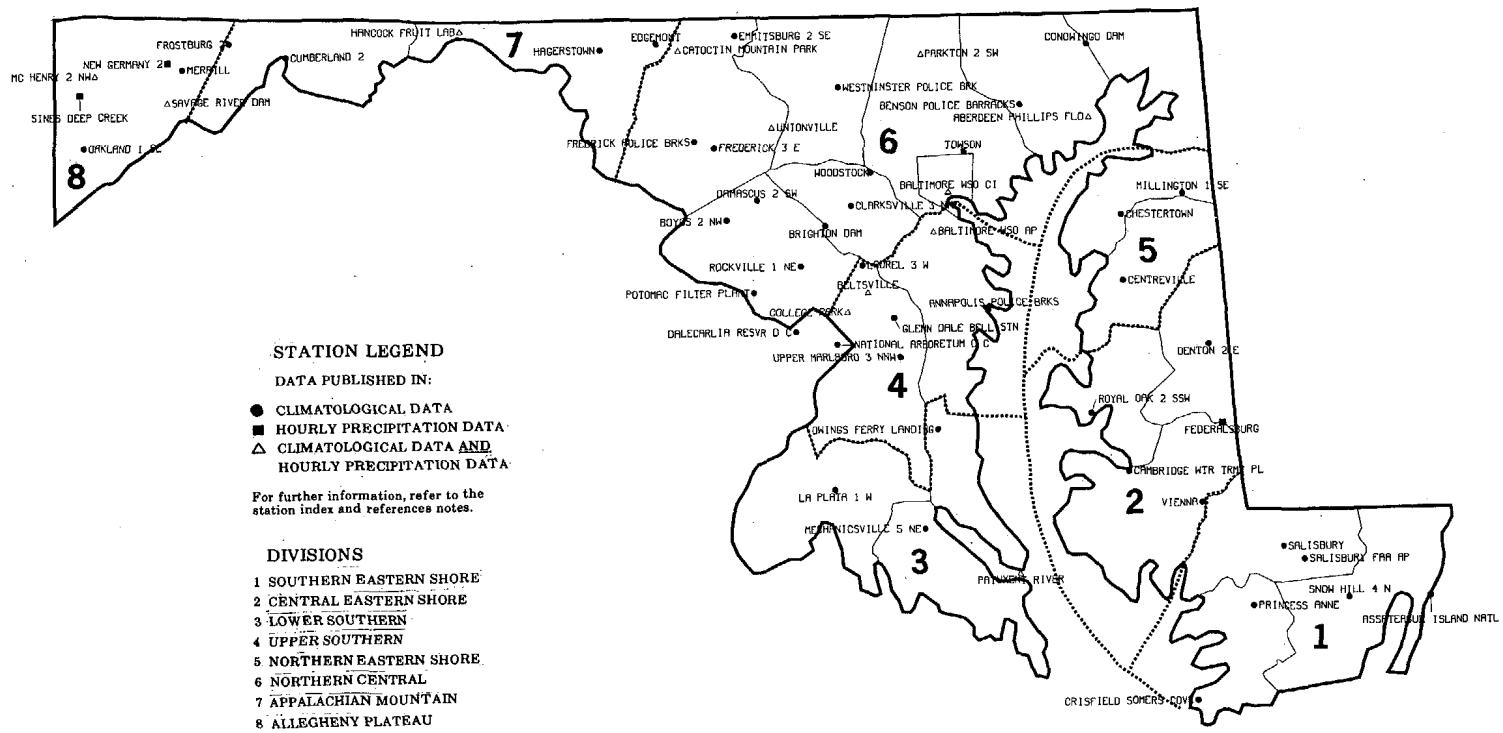
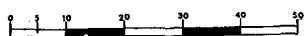
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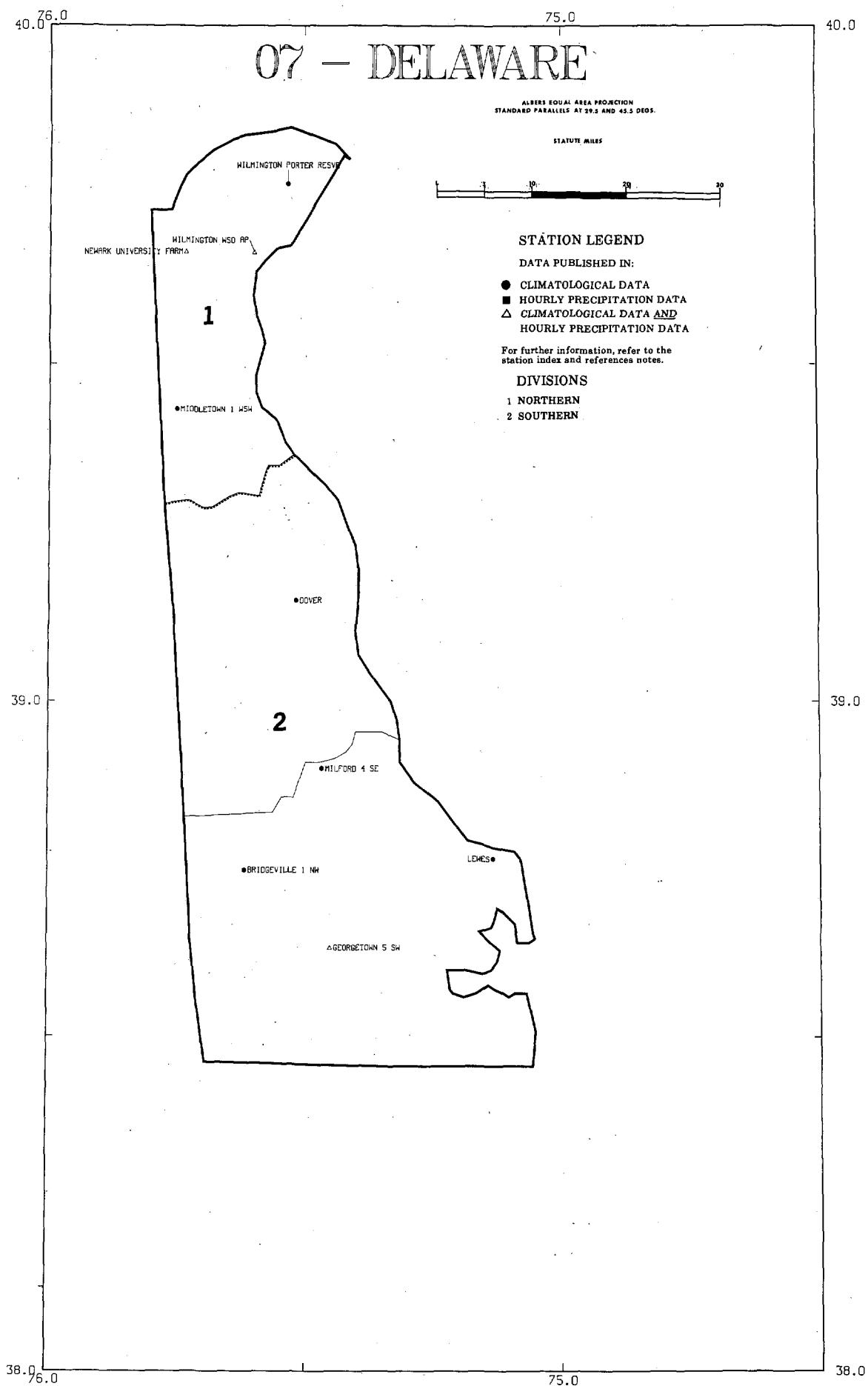
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- HOURLY PRECIPITATION DATA
- △ CLIMATOLOGICAL DATA AND  
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For further information, refer to the station index and references notes.

## DIVISIONS

1 NORTHERN

2 SOUTHERN







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PRECIPITATION DATA

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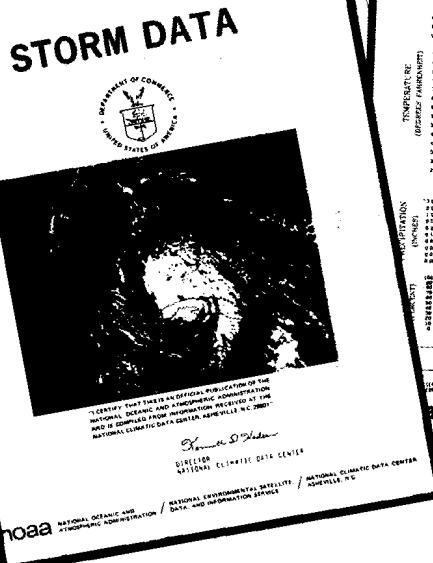
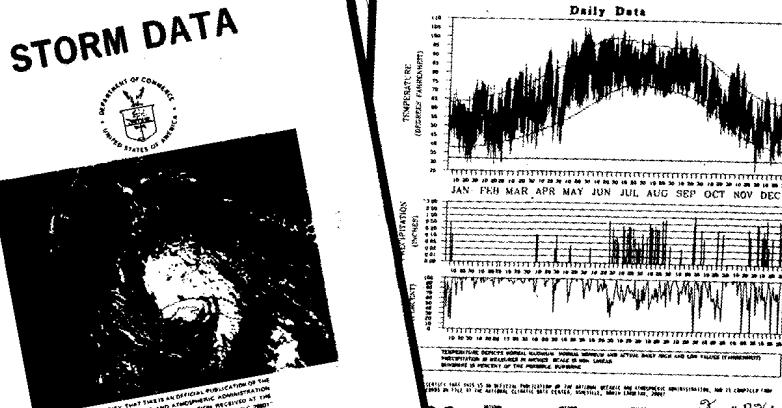
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CLIMATOLOGICAL DATA  
Monthly Summary



LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



Daily Data



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