

CLIMATOLOGICAL DATA ANNUAL SUMMARY MARYLAND AND DELAWARE 1993

VOLUME 97 NUMBER 13



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NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE NORTH CAROLINA

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

MARYLAND AND
DELAWARE
1993

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
MARYLAND												
SOUTHERN EASTERN SHORE 01												
ASSATEAGUE IS NATL SEA	3.95		2.31		6.31		2.90		4.52		1.74	
PRINCESS ANNE	4.75	1.34	2.05	-1.20	6.71	2.87	3.75	.48M				
SALISBURY	4.04	.28	1.97	-1.50	7.46	3.22	3.83	.53	5.28	1.78	3.14	-.51
SALISBURY FAA ARPT	4.30	.66	2.22	-1.24	6.97	2.81	4.53	1.33	5.95	2.31	2.42	-1.21
SNOW HILL 4 N	4.39	.59	1.98	-1.63	8.40	4.10	3.57	.36	5.64	2.12	2.14	-1.29
--DIVISIONAL DATA-->	4.29	.65	2.11	-1.32	7.17	3.05	3.72	.55	5.35	1.89	2.36	-1.03
CENTRAL EASTERN SHORE 02												
ROYAL OAK 2 SSW	2.69	-.88	2.93	-.37	7.80	4.00	4.03	.61	3.03	-1.20	2.84	-.77
VIENNA	3.09	-.57M	.83		6.28	2.51	3.02	-.37M	3.39		3.35	-.45
--DIVISIONAL DATA-->	2.89	-.69	2.93	-.33	7.04	3.30	3.53	.18	3.03	-.92	3.10	-.55
LOWER SOUTHERN 03												
LA PLATA 1 W	2.98	-.11	2.48	-.44	7.20	3.71	5.04	1.90	4.03	.17	3.89	.13
MECHANICSVILLE 5 NE	3.04	-.42	2.73	-.65	8.81	4.84	3.90	.49	4.16	.04	2.20	-1.86
OWINGS FERRY LANDING	2.85	-.28	2.69	-.06	7.60	4.29	4.36	1.15	2.52	-1.73	3.65	-.16
--DIVISIONAL DATA-->	2.96	-.32	2.63	-.41	7.87	4.18	4.43	1.24	3.57	-.51	3.25	-.47
UPPER SOUTHERN 04												
ANNAPOLIS POLICE BRKS	2.90	-.35M	2.63		6.24				1.46		4.28	.93
BALTIMORE WSO ARPT R	2.73	-.32	2.84	-.28M	8.12	4.74M	3.68	.59M	3.66	-.06	2.56	-1.11
BELTSVILLE	3.00	.13	2.45	-.18	8.30	5.05	4.39	1.09	3.59	-.73	2.16	-1.34
COLLEGE PARK	3.13	.10	2.57	-.35	7.90	4.57	5.20	1.94	3.57	-.78	2.06	-1.64
DALECARLIA RESERVOIR	3.14	.17	2.39	-.60	7.31	3.79	4.84	1.34	4.67	.48	2.84	-.77
GLENN DALE BELL STN	3.24	.23	2.22	-.58	7.88	4.53	3.89	.46	4.01	-.45M	1.96	
LAUREL 3 W	3.19	.31M	2.96		8.53	5.05	6.39	2.98M	1.29		1.76	-1.95
NATIONAL ARBORETUM DC	3.02	-.12	2.36	-.65	8.10	4.76	4.58	1.31	2.83	-1.34	2.16	-1.64
UPPER MARLBORO 3 NNW	2.95	-.20	2.53	-.21	8.56	5.20	4.18	.80	2.32	-1.77M		
--DIVISIONAL DATA-->	3.03	-.02	2.48	-.46	8.09	4.68	4.64	1.32	3.52	-.70	2.55	-1.15
NORTHERN EASTERN SHORE 05												
CHESTERTOWN	2.37	-.81	2.65	-.41	6.33	2.68	4.75	1.51	2.20	-1.83	2.16	-2.19
MILLINGTON 1 SE	2.71	-.49	3.45	.48M			5.38	2.05	1.74	-2.28	1.65	-2.37
--DIVISIONAL DATA-->	2.54	-.73	3.05	.01	6.33	2.78	5.07	1.79	1.97	-2.04	1.91	-2.08
NORTHERN CENTRAL 06												
ABERDEEN PHILLIPS FIEL R	2.26	-.78	2.40	-.30	6.65	3.36	5.44	1.88M	2.03		3.18	-1.24
BALTIMORE CITY	2.64	-.50	2.62	-.56	8.63	5.00	3.80	.56	2.23	-1.82	2.76	-.55
BENSON POLICE BARRACKS	2.60	-.78	2.56	-.45	9.04	5.27	5.85	1.86	3.09	-1.57	4.07	-.30
CATOCTIN MOUNTAIN PARK	2.11		3.71		6.07		7.54		1.35		3.21	
CLARKSVILLE 3 NNE	2.50		2.46				6.40		1.92		4.09	
CONOWINGO DAM M												
DAMASCUS 2 SSW M												
EMMITTSBURG 2 SE	1.50	-1.61	4.30	1.23	7.96	4.43	6.67		2.72		2.42	
FREDERICK POLICE BRKS	2.00		2.76		6.55		8.10	4.33	2.02	-2.33	4.04	.03
MILLERS 4 NE	2.07		3.35		7.42		6.29		2.37		3.84	
POTOMAC FILTER PLANT	2.75	.22	2.20	-.32	7.12		6.95		2.23		4.03	
ROCKVILLE 1 NE	2.44	-.41	2.26	-.57	8.02	4.18	5.20	2.21	1.29	-2.46	2.08	-1.60
TOWSON M						4.66M	5.50		2.25	-1.93M	1.87	
UNIONVILLE M	1.96	-.76	3.20	.65	8.94	5.81	6.35		1.42	-2.65	3.62	-.56
WESTMINSTER POL BRKS	3.93	1.03	2.85	.26M	7.56		6.49	3.02	2.66	-1.61	6.91	3.00

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

MARYLAND AND
DELAWARE
1993

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
MARYLAND														
SOUTHERN EASTERN SHORE 01														
ASSATEAGUE IS NATL SEA	1.03		3.15		1.83		4.00		1.88	M	3.66	M	37.28	
PRINCESS ANNE	1.58	-2.42	4.50	-.59	4.03	-.28	4.09	.84	3.12	-.02M	4.15			
SALISBURY	.87	-3.15	4.22	-.77	2.96	-.59	3.86	.63	2.62	-.45	4.76	1.23	45.01	.70
SALISBURY FAA ARPT	.92	-3.41	7.37	2.04	3.51	-.18	4.93	1.51	3.61	.46	4.91	1.23	51.64	6.31
SNOW HILL 4 N	.85	-3.25	4.99	-.38	3.97	-.68	4.33	1.09	2.90	-.32	4.38	.94	47.54	3.01
--DIVISIONAL DATA----->	1.05	-3.00	4.85	-.02	3.26	-.15	4.24	1.06	2.83	-.29	4.68	1.27	45.91	2.66
CENTRAL EASTERN SHORE 02														
ROYAL OAK 2 SSW	2.02	-1.94	4.84	.61	3.27	-.37	3.10	-.05	3.09	-.33	3.54	-.18	43.18	-.87
VIENNA	.59	-3.39	3.37	-1.50	1.93	-1.74	3.23	.23	2.64	-.52M	2.68	M	34.40	
--DIVISIONAL DATA----->	1.31	-2.63	4.11	-.29	2.60	-.91	3.17	.10	2.87	-.45	3.54	-.02	40.12	-3.21
LOWER SOUTHERN 03														
LA PLATA 1 W	1.98	-1.93	3.30	-1.09	3.87	.14	2.82	-.46	4.54	1.12	3.71	.43	45.84	3.57
MECHANICSVILLE 5 NE	.66	-3.56	4.37	.31	3.50	-.25	2.66	-.77	4.25	.74	4.07	.73	44.35	-.36
OWINGS FERRY LANDING	1.23	-2.50	2.52	-1.05	5.14	1.73	3.19	.02	3.55	.15	3.46	.23	42.76	1.79
--DIVISIONAL DATA----->	1.29	-2.67	3.40	-.57	4.17	.50	2.89	-.35	4.11	.72	3.75	.42	44.32	1.76
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	1.24	-2.34	3.21	-.69	3.15	-.11	3.01	-.30	2.99	-.46	4.66	1.22		
BALTIMORE WSO ARPT	1.71	-1.98	2.55	-1.37	4.09	.68	3.02	.04	3.09	-.23	4.45	1.04	42.50	1.74
BELTSVILLE	1.11	-2.98	6.20	2.06M	4.86		2.96	-.41	5.49	2.25	5.32	1.97M	49.83	
COLLEGE PARK	1.06	-2.94	5.87	1.43	5.62	1.98	2.90	-.33	5.50	2.14M	5.31	M	50.69	
DALECARLIA RESERVOIR	3.59	-.30	4.28	-.01	4.76	1.18	2.47	-1.03	6.34	2.85M	4.44	M	51.07	
GLENN DALE BELL STN	.66	-3.50	4.74	.42	3.66	.04	3.35	-.08	5.02	1.52	4.39	1.11M	45.02	
LAUREL 3 W	3.24	-.74	3.19	-.76	5.18	1.53	3.40	-.01	6.61	2.78	6.28	2.86M	52.02	
NATIONAL ARBORETUM DC	2.73	-1.65	4.53	.14	4.91	1.31	2.95	-.33	5.39	1.99	4.32	.99	47.88	4.77
UPPER MARLBORO 3 NNW			2.96	-1.00	3.57	-.03								
--DIVISIONAL DATA----->	1.92	-2.09	4.17	.00	4.37	.79	3.01	-.30	5.05	1.65	4.90	1.53	47.73	5.25
NORTHERN EASTERN SHORE 05														
CHESTERTOWN	2.88	-.82	1.80	-2.16	3.28	-.36	2.61	-.53	3.85	.46	3.70	-.07	38.58	-4.53
MILLINGTON 1 SE	2.65	-1.14	1.67	-2.40	3.66	-.09	3.38	.25	3.09	-.22M	3.31			
--DIVISIONAL DATA----->	2.77	-1.03	1.74	-2.14	3.47	-.18	3.00	-.14	3.47	.08	3.70	.01	39.02	-3.67
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FIEL	4.32	.36	1.59	-2.84	5.89	2.00M	1.80	M	2.43		4.46	.85M	42.45	
BALTIMORE CITY	2.27	-1.45	3.40	-.88	5.07	1.57	3.09	.11	3.66	.06	4.48	.73	44.65	2.27
BENSON POLICE BARRACKS	6.00	1.42	3.51	-1.20	5.28	1.33	4.81	1.55	3.86	-.13	4.94	1.09	55.61	8.09
CATOCTIN MOUNTAIN PARK	3.00		2.26		9.18		4.12		6.07	M	1.73	M		
CLARKSVILLE 3 NNE	2.01		4.25		3.65									
CONOWINGO DAM	1.42	-2.82	3.22	-1.24	7.38	3.43	5.01	1.78	3.53	-.21M	5.31			
DAMASCUS 2 SSW	1.85		5.53		4.73		2.95		5.88	M	4.72			
EMMITSBURG 2 SE	3.40	.16	3.28	-.33	7.40	3.43	3.65	.20	4.65	.96	5.09	1.82	55.39	12.32
FREDERICK POLICE BRKS	2.50		2.43		4.05		2.47		3.68		3.94		42.88	
MILLERS 4 NE	3.70		5.08		5.96		2.88		4.79		4.71		53.17	
POTOMAC FILTER PLANT	.93	-2.62	5.11	1.50	3.11	-.54	3.13	.10	5.52	2.23	4.03	1.00	42.47	3.90
ROCKVILLE 1 NE	1.67	-2.04	3.68	-.31	2.62	-.91	2.35	-.99	6.24	2.94	4.16	1.09M	43.06	
TOWSON			3.56	-1.06	5.27	1.27	4.76	1.14M		M	1.55			
UNIONVILLE	1.19	-2.17	4.09	.94	5.78	2.41	3.17	-.05	8.11	4.68	4.87	1.67	52.70	13.03
WESTMINSTER POL BRKS	2.66	-1.15	4.57	1.15	9.52	5.88	3.46	.21	4.83	1.48	6.05	2.73M	61.49	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

MARYLAND AND
DELAWARE
1993

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
WOODSTOCK	2.55	-.67	2.93	-.08	7.77	4.06	6.30	2.80	2.26	-2.21	5.02	1.15
--DIVISIONAL DATA----->	2.38	-.70	2.88	-.09	7.89	4.36	6.35	2.82	2.21	-2.16	4.00	.02
APPALACHIAN MOUNTAIN 07												
CUMBERLAND 2	1.57	-.81	2.31	.02	7.12	4.04	8.33	5.14	1.99	-1.67	2.94	
EDGEMONT	2.03	-.88	3.00	.17	9.00	5.66	7.72	4.05	1.11	-3.26	3.17	-1.09
FROSTBURG 2	2.10		3.06		8.00		7.76		2.48		3.46	
HAGERSTOWN	1.90	-.73	2.45	.05	5.55	2.43	7.37	4.01	1.28	-2.71	2.46	-1.35
HANCOCK	2.06	-.36	1.43		5.94		7.26	4.03	1.11	-2.58	2.84	-.57
--DIVISIONAL DATA----->	1.91	-.70	2.61	.06	6.89	3.58	7.68	4.24	1.72	-2.21	2.92	-.53
ALLEGHENY PLATEAU 08												
MC HENRY 2 NW	2.63		3.40		8.01		6.05		2.18		4.95	
MERRILL	1.97	-.64	2.20	-.47	5.46	1.93	7.73	4.06	1.96	-2.07	4.54	1.16
OAKLAND 1 SE	2.41	-.78	2.52	-.43	6.75	2.68	4.81	-.47	2.52	-2.19	4.35	-.03
SAVAGE RIVER DAM	1.67	-.73	1.97	-.27	5.81	2.56	7.33	3.92	1.90	-2.03	3.42	.07
--DIVISIONAL DATA----->	2.24	-.94	2.63	-.32	6.86	2.90	6.06	1.99	2.20	-2.17	4.24	.16
DELAWARE												
NORTHERN 01												
NEWARK UNIVERSITY FARM	2.83	-.15	3.25	.52	7.30	4.04	5.42	1.93	1.64	-2.51	5.37	1.52
WILMINGTON WSO ARPT R	2.64	-.39	3.11	.20	7.50	4.07	5.87	2.48	3.95	.11	1.60	-1.95
WILMINGTON PORTER RSVR	3.50	.03	3.22	.17	7.84	4.03	7.15	3.14	4.99	.66	2.40	-1.66
--DIVISIONAL DATA----->	2.99	-.19	3.19	.34	7.55	4.08	6.15	2.58	3.53	-.52	3.12	-.64
SOUTHERN 02												
DOVER	2.69	-.69	2.95	.02	6.16	2.36	4.42	.92	1.80	-2.19	.95	-2.90
GEORGETOWN 5 SW	3.53	-.14	2.22	-.93	7.56	3.57	4.81	1.37	3.75	.10	4.08	.67
GREENWOOD 2 NE	3.66		2.53		6.20		3.81		2.04		3.85	
LEWES	3.38	-.38	2.96	-.34	7.32	3.21	3.54		3.62	-.14	1.63	-1.75
--DIVISIONAL DATA----->	3.32	-.32	2.67	-.51	6.81	2.87	4.35	.87	2.80	-1.08	2.63	-.86

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

MARYLAND AND
DELAWARE
1993

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
WOODSTOCK	1.81	-1.64	3.85	.28	2.98	-.61	2.53	-.70	6.02	2.39	4.64	1.16	48.66	5.93
--DIVISIONAL DATA----->	2.70	-1.10	3.62	-.23	5.65	1.94	3.48	.14	5.11	1.53	4.73	1.26	51.00	7.79
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	1.89	-1.48	3.29	-.01	4.51	1.43	2.66	-.11	4.45	1.69	2.81	-.20M	43.87	
EDGEMONT	2.07	-1.39	3.78	.45	7.61	3.70	3.15	-.40	4.16	.45	4.65	1.66	51.45	9.12
FROSTBURG 2	3.58		2.61		5.52		3.10		4.09		3.05		48.81	
HAGERSTOWN	1.58	-1.85M	2.61	M	4.13		1.73	-1.60						
HANCOCK	3.64	-.03	2.81	-.34	5.64	2.46	2.29	-.87	5.31	2.31	4.26	1.66M	44.59	
--DIVISIONAL DATA----->	2.67	-.87	2.90	-.44	5.22	2.02	2.45	-.72	4.62	1.51	3.37	.55	44.96	6.49
ALLEGHENY PLATEAU 08														
MC HENRY 2 NW	4.52		3.86		7.16		3.18		4.58					
MERRILL	3.71	-.41	2.39	-1.18	4.38	1.39	2.44	-.45	3.69	.60	2.85	-.30	43.32	3.62
OAKLAND 1 SE	3.22	-1.90	2.02	-2.15	7.50	4.23	3.78	-.59M	2.61		3.83	.09M	46.32	
SAVAGE RIVER DAM	4.13	-.08	2.01	-1.18	5.42	2.31	2.60	-.33	3.06	.21M	2.51	M	41.83	
--DIVISIONAL DATA----->	3.96	-.90	2.63	-1.20	6.69	3.37	3.19	.02	3.82	.26	3.83	.15	48.35	3.32
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM	2.78	-1.74	3.12	-.88	7.07	3.39	2.94	-.23	3.75	.47	4.23	.73	49.70	7.09
WILMINGTON WSO ARPT	4.04	-.19	2.65	-.75	6.26	2.83	2.77	-.11	2.85	-.42	3.51	.03	46.75	5.91
WILMINGTON PORTER RSVR	2.93	-1.46	3.14	-.91	8.43	4.48	3.35	.05	3.34	-.46	4.52	.68	54.81	8.75
--DIVISIONAL DATA----->	3.25	-.97	2.97	-.66	7.25	3.63	3.02	-.11	3.31	-.10	4.09	.53	50.42	7.97
SOUTHERN 02														
DOVER	3.16	-.99	4.79	.54	3.69	-.65	3.62	-.36	3.32	.17	4.32	.78	41.87	-2.27
GEORGETOWN 5 SW	2.11	-1.59M			3.93	.52	4.57	1.30	3.11	-.07M	4.05			
GREENWOOD 2 NE	1.12		3.35		2.83		3.64		3.70		5.71		42.44	
LEWES	1.89	-2.09	5.19	-.05	6.16	3.07	5.18	2.01	3.32	.04	4.76	1.08M	48.95	
--DIVISIONAL DATA----->	2.07	-1.82	4.44	-.34	4.15	.51	4.25	1.02	3.36	.15	4.93	1.34	45.78	1.83

SEE REFERENCE NOTES FOLLOWING STATION INDEX

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

MARYLAND AND
DELAWARE
1993

1993																										
STATION	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE
MARYLAND																										
SOUTHERN EASTERN SHORE 01																										
ASSATEAGUE IS NATL SEA	41.1		M35.7		M40.9		50.3		62.3		71.6		79.4		76.0		71.3		59.8		51.0		39.6		M56.6	
PRINCESS ANNE	40.9	5.9	35.0	-2.3	43.0	-2.8	54.2	-2.1					79.3	2.9	74.3	-1.9	67.9	-1.8	54.9	-2.9	47.2	-1.8	34.7	-5.1		
SALISBURY	41.8	5.9	35.7	-2.4	44.1	-2.6	55.3	-2.2	66.6	1.9	73.9	1.1	81.3	4.4	77.2	1.3	71.5	1.8	59.0	-1.1	50.4	-3.3	38.6	-1.8	58.0	.8
SALISBURY FAA ARPT	39.5	5.1	33.3	-3.3	41.7	-3.4	53.4	-3.3	64.4	1.2	72.6	.7	80.5	3.8	76.5	1.2	69.6	1.0	55.7	-1.8	48.2	-4.4	M36.5	-2.7	M56.0	.1
SNOW HILL 4 N	41.3	6.1	34.8	-2.5	43.1	-2.5	53.6	-3.3	66.0	2.5	72.7	.8	79.5	3.7	76.2	1.5	71.0	2.3	57.7	-2.2	49.5	-4.4	37.9	-1.9	56.9	.8
--DIVISIONAL DATA----->	40.9	5.6	34.9	-2.5	42.6	-3.0	53.4	-3.8	64.8	1.1	72.7	.5	80.0	3.4	76.0	.3	70.3	.8	57.4	-1.3	49.3	-3.3	37.5	-2.6	56.7	.1
CENTRAL EASTERN SHORE 02																										
ROYAL OAK 2 SSW	40.3	6.2	34.8	-1.7	42.6	-3.1	54.4	-5.5	66.1	1.2	74.0	.5	81.2	3.7	77.6	1.4	70.7	.9	58.4	-1.7	48.8	-1.6	37.7	-1.4	57.2	.5
VIENNA	M40.8	5.9	34.7	-2.7	41.9	-4.6	M54.6	-1.8			74.2	.6	81.9	4.1	78.0	1.7	71.2	1.3	58.0	-1.0	48.4	-1.0	37.5	-2.2	M	
--DIVISIONAL DATA----->	40.6	6.4	34.8	-1.9	42.3	-3.5	54.5	-3.3	66.1	1.4	74.1	.8	81.6	4.2	77.8	1.7	71.0	1.4	58.2	-1.6	48.6	-1.6	37.6	-1.6	57.3	.6
LOWER SOUTHERN 03																										
LA PLATA 1 W	39.6	5.8	35.2	-1.8	42.9	-3.3	55.4	-4.4	65.4	1.5	71.1	-5.5	77.8	2.2	75.7	1.1	69.8	1.4	56.8	-1.8	48.3	.0	36.5	-1.8	56.2	.4
MECHANICSVILLE 5 NE	38.9	5.6	34.4	-1.9	41.6	-4.1	53.7	-7.7	64.9	1.0	71.6	-3.3	78.8	2.6	75.2	.6	68.7	.8	55.1	-1.7	47.4	-2.2	35.9	-2.3	55.5	-1.1
OWINGS FERRY LANDING	38.4	4.9	33.8	-2.4	41.2	-4.3	54.1	-5.5	65.1	.7	71.7	-6.6	79.3	3.2	76.0	1.1	70.1	1.4	56.7	-1.9	47.1	-1.2	35.6	-2.4	55.8	-1.1
--DIVISIONAL DATA----->	39.0	5.0	34.5	-2.3	41.9	-4.0	54.4	-5.5	65.1	.7	71.5	-1.0	78.6	2.0	75.6	.2	69.5	.5	56.2	-1.7	47.6	-1.0	36.0	-2.8	55.8	-1.3
UPPER SOUTHERN 04																										
ANNAPOLIS POLICE BRKS	39.7	6.1	34.8	-1.3	40.8	-4.4	M		M66.9	2.3	74.8	1.3	82.6	5.0	78.3	2.0	71.3	1.3	57.6	-1.8	47.9	-2.2	36.7	-1.7	M	
BALTIMORE WSO ARPT	37.9	6.1	31.4	-3.4	39.4	-4.7	52.5	-9.9	65.0	1.6	72.2	-3.3	80.2	3.2	76.7	1.1	68.8	.3	55.5	-1.1	46.5	-3.3	36.2	-5.5	55.2	.1
BELTSVILLE	37.4	6.9	32.3	-1.0	38.9	-4.0	51.9	-3.3	65.2	3.2	72.0	1.0	79.4	3.8	M76.9	2.7	68.6	1.4	54.7	-4.4	45.5	-4.4	34.9	-9.9	M54.8	1.0
COLLEGE PARK	38.7	6.2	34.0	-1.3	41.1	-3.8	54.4	-4.4	67.3	3.1	M73.7	.8	82.4	5.0	78.4	2.4	71.0	2.1	57.2	.0	47.3	-1.1	37.2	-1.1	M56.9	1.2
DALECARLIA RESERVOIR	M	33.7	-2.4	41.9	-3.7	M		65.4		67.3	2.1	80.9	3.7	77.4	1.6	69.4	.3	55.7	-1.7	46.0	-1.4	36.0	-1.4	M		
GLENN DALE BELL STN	35.5	3.0	32.0	-3.5	38.4	-6.3	50.9	-2.7	63.5	.3	69.7	-1.6	77.6	2.1	76.6	2.4	69.7	2.0	56.9	.5	46.5	-5.5	35.7	-1.3	54.4	-5.5
LAUREL 3 W	36.6	4.6	31.1	-3.6	39.2	-5.2	52.6	-1.4	65.9	2.1	72.4	.1	79.5	2.5	77.0	1.2	67.8	-9.9	54.5	-2.8	45.7	-1.6	34.9	-1.7	54.8	-6.6
NATIONAL ARBORETUM DC	38.1	5.5	33.6	-1.6	40.8	-4.0	54.2	-2.2	67.2	3.2	73.6	.9	81.4	4.4	78.0	2.3	69.9	1.3	56.0	-1.1	M46.9	-3.3	36.8	-6.6	M56.4	.9
UPPER MARLBORO 3 NNW	37.4	6.2	33.1	-1.8	39.6	-4.0	52.7	-3.3	64.9	2.3	M				76.3	2.6	69.2	2.3								
--DIVISIONAL DATA----->	37.7	5.3	32.9	-2.3	40.0	-4.6	52.7	-1.2	65.7	2.0	72.7	.4	80.5	3.9	77.3	2.0	69.5	1.0	56.0	-1.8	46.5	-1.7	36.1	-1.0	55.6	.3
NORTHERN EASTERN SHORE 05																										
CHESTERTOWN	37.4	5.3	32.3	-2.4	40.6	-3.3	54.0	.6	66.1	2.5	73.6	1.1	79.9	3.1	77.4	1.8	69.5	.6	56.0	-1.5	46.8	-1.6	35.4	-1.6	55.8	.5
MILLINGTON 1 SE	38.5	7.3	32.5	-1.4	M		53.5	1.1	64.1	1.5	71.7	.6	78.4	2.9	76.7	2.4	69.1	1.5	56.7	.5	47.0	.4	35.9	-1.3	M	
--DIVISIONAL DATA----->	38.0	5.8	32.4	-2.5	40.6	-3.6	53.8	.4	65.1	1.6	72.7	.5	79.2	2.7	77.1	1.9	69.3	.7	56.4	-1.9	46.9	-1.6	35.7	-1.3	55.6	.4
NORTHERN CENTRAL 06																										
ABERDEEN PHILLIPS FIEL	M		M33.7	-1.4	41.0	-3.3	53.8	.0			72.2	.2	M		M77.3	2.3	M70.1	1.5	M		M		M		M	
BALTIMORE CITY	R 40.3	5.4	32.3	-5.0	41.6	-5.0	53.3	-3.3	68.8	2.0	76.0	.0	84.3	3.9	80.2	1.5	71.3	-3.3	57.9	-2.1	48.6	-1.0	37.5	-1.8	M	-5.5
BENSON POLICE BARRACKS	39.0	8.2	33.3	-5.5	41.6	-1.7	55.2	2.3	67.5	4.4	73.3	1.9	80.7	5.1	78.0	3.8	70.2	2.4	57.9	1.4	48.0	1.8	36.5	.8	56.8	2.5
CATOCTIN MOUNTAIN PARK	33.0		27.3		35.7		51.6		63.4		68.5		74.5		72.4		63.8		52.8		44.0		31.5		51.5	
CLARKSVILLE 3 NNE	37.1		31.3				51.8		63.4		70.2		76.8		73.2		68.1									
CONOWINGO DAM	M		M		M		51.1		62.1		69.5		82.7	7.6	79.4	5.4	69.8	2.8	57.1	2.0	47.2	2.7	36.5	2.2	M	
DAMASCUS 2 SSW							51.7		63.6		69.7		76.4		73.8		66.0		52.9		43.9		32.5		M	
EMMITTSBURG 2 SE	35.6	6.5	29.5	-2.5	37.3	-4.7	51.7	.2	63.6	2.2	69.7	-1.1	76.1	2.0	73.2	.5	63.6	-2.0	50.5	-3.8	41.1	-3.2	31.1	-3.1	51.9	-1.7
FREDERICK POLICE BRKS	M		32.7		40.6		54.2		67.2		73.3		80.9		77.8		69.2		56.3		47.2		36.3		M	
MILLERS 4 NE	35.3		29.3		37.1		51.4		63.1		69.5		76.2		73.5		65.5		53.7		44.8		33.3		52.7	
ROCKVILLE 1 NE	37.2	6.5	31.7	-1.4	39.7	-3.7	53.0	.6	64.9	2.9	72.0	1.6	79.9	5.2	75.9	2.9	67.5	1.8	54.4	-1.5	46.0	1.1	35.5	.4	54.8	1.5
TOWSON	M		M		M		51.5		63.0		70.5		77.0		74.7		66.7		53.2		45.1		31.0		51.9	
UNIONVILLE	35.7	8.5	30.1		37.4	-2.8	51.5	2.7	63.0	3.2	70.5	2.0	77.0	4.0	74.7	3.5	66.7	2.9	53.2		45.6		31.0	-1.5		
WESTMINSTER POL BRKS	36.8	7.3	30.4	-1.9	39.0	-2.9	53.5	1.6	65.5	3.6	72.1	1.7	78.3	3.7	75.1	2.0	66.8	.5	54.8	-3.3	45.6	.5	34.3	-2.5	54.4	1.3
WOODSTOCK	37.0	6.2	31.2	-2.4	39.5	-3.6	53.0	.4	65.2	2.5	71.4	.5	78.4	3.0	75.6	1.6	68.2	1.1	54.5	-1.9	45.3	-4.4	34.5	-1.2	54.5	.6
--DIVISIONAL DATA----->	36.7	5.9	31.1	-2.4	39.1	-3.9	52.7	.1	64.8	2.2	71.4	.4	78.6	3.4	75.7	1.9	68.1	1.0	55.0	-1.7	45.6	-2.2	34.6	-1.8	54.5	.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

MARYLAND AND
DELAWARE
1993

STATION	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE
APPALACHIAN MOUNTAIN 07																										
CUMBERLAND 2	35.5	5.2	31.3	-2.1	39.0	-4.2	52.9	-7.7	64.3	1.2	70.5	-5.5	77.9	2.8	75.8	1.9	65.8	-9.9	53.2	-1.6	44.0	-6.6	32.9	-1.7	53.6	-1.1
FROSTBURG 2	29.9		24.9		31.6		45.8		58.7		64.6		71.1		69.2		60.7		48.7		40.2		28.2		47.8	
HAGERSTOWN	34.8	6.1	29.3	-1.8	36.6	-5.4	50.7	-1.1	64.5	2.0	71.0	3.3	78.2	3.3	75.5	2.1	65.0	-1.3	52.9	-2.0						
HANCOCK	34.9	6.6	30.1	-5.5	37.2	-3.5	50.9	5.5	62.7	2.5	69.9	1.4	75.4	2.4	74.5	2.9	66.0	1.5	51.3	-1.5	43.5	1.1	33.6	3.3	52.5	1.1
--DIVISIONAL DATA----->	33.8	4.8	28.9	-2.9	36.1	-5.4	50.1	-1.4	62.6	1.4	69.0	-2.2	75.7	2.5	73.8	1.9	64.4	-8.8	51.5	-2.3	42.6	-1.4	31.6	-2.0	51.7	-4.4
ALLEGHENY PLATEAU 08																										
MC HENRY 2 NW	30.1		23.6		31.8		45.7		58.6		64.2		70.8		69.5		60.4		48.8		39.3		29.7		48.5	.8
OAKLAND 1 SE	32.7	7.1	26.4	-1.4	33.4	-4.1	48.0	1.3	57.5	1.2	64.3	5.7	70.6	2.9	68.6	2.0	61.1	7.7	49.4	-2.2	40.4	3.3	29.7	-6.6	48.5	.8
SAVAGE RIVER DAM	32.2	6.7	27.1	-7.7	33.1	-4.4	47.1	-6.6	59.3	1.7	65.7	4.4	72.5	3.1	70.7	2.4	62.3	5.5	49.2	-1.1	41.3	5.5	30.6	3.3	49.3	.7
--DIVISIONAL DATA----->	31.7	6.9	25.7	-1.4	32.8	-4.0	46.9	1.1	58.5	1.9	64.7	5.7	71.3	3.3	69.6	2.7	61.3	7.7	49.1	-4.4	40.3	3.3	30.2	6.6	48.5	.9
DELAWARE																										
NORTHERN 01																										
NEWARK UNIVERSITY FARM	37.7	6.4	31.2	-2.9	39.5	-3.7	52.1	-5.5	65.0	1.9	71.7	0.0	78.1	2.1	76.1	1.5	68.3	3.3	55.2	-1.3	46.8	1.1	35.4	-7.7	54.8	.3
WILMINGTON WSO ARPT	37.6	7.0	31.0	-2.4	39.0	-3.7	52.8	6.6	65.3	2.8	72.8	1.3	79.4	3.0	77.8	2.8	68.7	7.7	55.7	-5.5	47.4	1.1	36.4	6.6	55.3	1.1
WILMINGTON PORTER RSVR.	36.9	6.8	30.4	-2.3	38.7	-3.1	52.3	8.8	64.8	2.9	71.9	1.1	78.3	3.1	76.3	2.5	67.1	3.3	54.9	-7.7	46.8	1.1	35.8	5.5	54.5	1.1
--DIVISIONAL DATA----->	37.4	6.6	30.9	-2.6	39.1	-3.6	52.4	2.2	65.0	2.4	72.1	6.6	78.6	2.7	76.7	2.2	68.0	3.3	55.3	-9.9	47.0	7.7	35.9	0.0	54.9	.7
SOUTHERN 02																										
DOVER	39.5	5.7	34.2	-2.2	40.9	-4.1	53.2	-9.9	64.4	2.2	72.6	-2.2	79.6	2.4	76.2	3.3	69.7	1.1	57.5	-1.1	48.4	-6.6	37.1	-1.7	56.1	-2.2
GEORGETOWN 5 SW	39.8	7.1	34.4	-3.3	40.8	-2.8	51.7	-6.6	64.2	1.9	71.6	4.4	79.1	3.3	75.3		69.7	2.1	55.3	-1.3	46.7	-5.5	36.2	-1.4	55.0	
GREENWOOD 2 NE	38.0		31.9		40.2		52.8		63.9		71.3		78.7		75.3		68.6		56.0		47.0		36.2		55.0	
LEWES	41.4	6.9	34.5	-2.1	41.4	-3.2	53.1	-2.2	65.6	2.7	73.1	1.5	79.9	4.0	76.6	1.7	70.8	1.6	59.2	8.8	49.8	3.3	39.0	-7.7	57.0	1.1
--DIVISIONAL DATA----->	39.7	6.0	33.8	-2.1	40.8	-3.8	52.7	-7.7	64.5	1.2	72.2	1.1	79.3	2.9	76.0	9.9	69.7	1.0	57.0	-7.7	48.0	-5.5	37.1	-1.5	55.9	.2

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

MARYLAND AND
DELAWARE
1993

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		16° OR BELOW	20° OR BELOW	24° OR BELOW	28° OR BELOW	32° OR BELOW
						DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.					
MARYLAND																														
SOUTHERN EASTERN SHORE 01																														
ASSATEAGUE IS NATL SEA																														
PRINCESS ANNE																														
SALISBURY																														
SALISBURY FAA ARPT																														
SNOW HILL 4 N																														
CENTRAL EASTERN SHORE 02																														
ROYAL OAK 2 SSW																														
VIENNA																														
LOWER SOUTHERN 03																														
LA PLATA 1 W																														
MECHANICSVILLE 5 NE																														
OWINGS FERRY LANDING																														
UPPER SOUTHERN 04																														
ANNAPOLIS POLICE BRKS																														
BALTIMORE WSO ARPT																														
BELTSVILLE																														
COLLEGE PARK																														
DALECARLIA RESERVOIR																														
GLENN DALE BELL STN																														
LAUREL 3 W																														
NATIONAL ARBORETUM DC																														
UPPER MARLBORO 3 NNN																														
NORTHERN EASTERN SHORE 05																														
CHESTERTOWN																														
MILLINGTON 1 SE																														
NORTHERN CENTRAL 06																														
ABERDEEN PHILLIPS FIEL																														
BALTIMORE CITY																														
BENSON POLICE BARRACKS																														
CATOCTIN MOUNTAIN PARK																														
CLARKSVILLE 3 NNE																														
CONOWINGO DAM																														
DAMASCUS 2 SSW																														
EMMITSBURG 2 SE																														
FREDERICK POLICE BRKS																														
MILLERS 4 NE																														
ROCKVILLE 1 NE																														
TOWSON																														
UNIONVILLE																														
WESTMINSTER POL BRKS																														
WOODSTOCK																														
APPALACHIAN MOUNTAIN 07																														
CUMBERLAND 2																														
FROSTBURG 2																														
HAGERSTOWN																														
HANCOCK																														

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

MARYLAND AND
DELAWARE
1993

STATION		HIGHEST	DATE	LOWEST	DATE	LAST SPRING MINIMUM OF										FIRST FALL MINIMUM OF										NUMBER OF DAYS BETWEEN DATES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

MARYLAND AND
DELAWARE
1993

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
MARYLAND														
SOUTHERN EASTERN SHORE 01														
ASSATEAGUE IS NATL SEA	0	B	0	B	0	35	211	454	348	211	9	6	0	B1274
PRINCESS ANNE	0	0	0	0	3	-	-	450	294	154	4	5	0	-
SALISBURY	0	0	0	0	8	96	278	513	387	230	11	12	0	1535
SALISBURY FAA ARPT	0	0	0	0	5	57	244	485	362	192	7	11	B	0
SNOW HILL 4 N	0	0	0	0	1	89	247	460	352	222	13	10	0	1394
CENTRAL EASTERN SHORE 02														
ROYAL OAK 2 SSW	B	0	0	0	1	82	286	508	400	211	12	8	0	1508
VIENNA	0	0	0	B	2	-	288	533	411	221	9	5	0	-
LOWER SOUTHERN 03														
LA PLATA 1 W	0	0	0	16	81	206	403	340	189	8	9	0	0	1252
MECHANICSVILLE 5 NE	0	0	0	6	68	218	434	325	170	6	9	0	0	1236
OWINGS FERRY LANDING	0	0	0	9	72	217	449	349	203	7	9	0	0	1315
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	R	0	0	0	-	B	134	303	553	420	8	6	0	-
BALTIMORE WSO ARPT	0	0	0	0	0	70	235	476	371	175	3	5	0	1335
BELTSVILLE	0	0	0	11	74	228	452	B	376	167	0	5	0	B1313
COLLEGE PARK	0	0	0	21	124	B	271	544	421	219	4	3	0	B1607
DALECARLIA RESERVOIR	-	0	0	-	92	258	497	389	187	7	9	0	0	-
GLENN DALE BELL STN	0	0	0	6	51	170	394	364	197	6	11	0	0	1199
LAUREL 3 W	0	0	0	0	91	240	454	377	159	2	0	0	0	1323
NATIONAL ARBORETUM DC	0	0	0	16	116	272	515	409	197	1	B	3	0	B1529
UPPER MARLBORO 3 NNW	0	0	0	13	77	-	-	357	186	-	-	-	-	-
NORTHERN EASTERN SHORE 05														
CHESTERTOWN	0	0	0	3	89	271	471	392	193	8	6	0	0	1433
MILLINGTON 1 SE	0	0	-	5	57	222	424	371	183	6	8	0	0	-
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FIEL	-	B	0	0	7	-	237	-	B	389	B	211	-	-
BALTIMORE CITY	R	0	0	0	7	149	340	608	479	228	12	6	0	1829
BENSON POLICE BARRACKS	0	0	0	11	118	261	489	410	194	8	4	0	0	1495
CATOCTIN MOUNTAIN PARK	0	0	0	0	60	152	304	233	88	0	2	0	0	839
CLARKSVILLE 3 NNE	0	0	-	3	56	186	371	261	160	-	-	-	-	-
CONOWINGO DAM	-	-	-	-	-	-	555	451	187	8	1	0	0	-
DAMASCUS 2 SSW	-	-	-	2	35	172	359	279	128	2	5	0	0	-
EMMITSBURG 2 SE	0	0	0	2	56	174	355	262	88	0	2	0	0	939
FREDERICK POLICE BRKS	-	0	0	3	123	263	501	403	184	1	5	0	0	-
MILLERS 4 NE	0	0	0	0	54	172	354	269	117	0	5	0	0	971
ROCKVILLE 1 NE	0	0	0	6	69	229	468	341	151	1	5	0	0	1270
TOWSON	-	-	-	-	-	-	-	-	B	317	B	10	-	B
UNIONVILLE	0	0	0	0	52	192	377	310	139	1	-	0	0	-
WESTMINSTER POL BRKS	0	0	0	3	92	233	418	318	134	0	5	0	0	1203
WOODSTOCK	0	0	0	3	75	212	422	334	170	2	6	0	0	1224
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	0	0	0	1	70	198	408	344	116	0	0	0	0	1137
FROSTBURG 2	0	0	0	0	18	79	202	152	53	0	0	0	0	504
HAGERSTOWN	0	0	0	3	74	210	415	334	99	0	-	-	-	-
HANCOCK	0	0	0	2	52	179	337	305	127	0	0	0	0	1002
ALLEGHENY PLATEAU 08														
MC HENRY 2 NW	0	0	0	0	20	71	201	164	41	0	0	-	-	-
OAKLAND 1 SE	0	0	0	0	6	60	190	132	40	0	0	0	0	428
SAVAGE RIVER DAM	0	0	0	0	19	84	240	192	67	0	0	0	0	602

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL COOLING DEGREE DAYS
BASE=65 DEGREES FAHRENHEIT

MARYLAND AND
DELAWARE
1993

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM	0	0	0	0	74	222	415	354	170	3	7	0	1245	1033
WILMINGTON WSO ARPT	0	0	0	1	79	252	452	405	176	3	4	0	1372	1046
WILMINGTON PORTER RSVR	0	0	0	0	73	226	418	357	146	2	2	0	1224	930
SOUTHERN 02														
DOVER	0	0	0	10	70	252	458	356	194	7	6	0	1353	1199
GEORGETOWN 5 SW	0	0	0	1	54	223	443	-	198	2	0	0	-	976
GREENWOOD 2 NE	0	0	0	0	57	213	431	326	168	6	7	0	1208	
LEWES	0	0	0	3	101	257	469	369	209	8	11	0	1427	1066

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL EVAPORATION AND WIND MOVEMENT

MARYLAND AND
DELAWARE
1993

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MARYLAND														
UPPER SOUTHERN 04 BELTSVILLE	WIND	-	-	-	B 2090	B 972	1093	822	641	618	928	-	-	-
	EVAP	-	-	-	B 4.60	B 6.54	7.27	7.91	B 6.27	B 4.45	B 3.27	-	-	-
	MAX TEMP	-	-	-	M 68.1	M 83.4	M 90.0	95.1	M 93.6	M 83.6	M 65.1	-	-	M -
	MIN TEMP	-	-	-	M 44.0	M 57.0	M 62.6	71.4	M 69.2	M 62.0	M 46.3	-	-	M -
UPPER MARLBORO 3 NNW	WIND	-	-	-	B 748	B 85	-	-	B 110	265	-	-	-	-
	EVAP	-	-	-	B 4.58	B 5.60	-	-	B 6.12	B 4.88	-	-	-	-
	MAX TEMP	-	-	-	57.2	72.7	-	-	93.2	83.5	-	-	-	-
	MIN TEMP	-	-	-	48.9	61.5	-	-	67.5	60.9	-	-	-	-
ALLEGHENY PLATEAU 08 SAVAGE RIVER DAM														
	WIND	-	-	-	B 1782	1043	835	807	551	622	-	-	-	-
	EVAP	-	-	-	-	B 5.30	B 4.95	B 5.32	B 4.50	B 2.47	-	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
DELAWARE														
NORTHERN 01 NEWARK UNIVERSITY FARM														
	WIND	-	-	-	-	-	B 524	454	213	238	305	-	-	-
	EVAP	-	-	-	-	-	B 6.93	7.32	B 6.44	B 4.46	B 2.79	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTHERN 02 GEORGETOWN 5 SW														
	WIND	-	-	-	1698	1658	-	-	-	-	-	-	-	-
	EVAP	-	-	-	B 5.68	B 9.49	-	-	-	-	-	-	-	-
	MAX TEMP	-	-	-	66.3	82.4	-	-	-	-	-	-	-	M -
	MIN TEMP	-	-	-	41.7	55.2	-	-	-	-	-	-	-	M -

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
1993

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 FIEL	0015	06	HARFORD	39 28	76 10W	57	70	70	0			C H
ANNAPOLIS POLICE BRKS	0193	04	ANNE ARUNDEL	38 59	76 30W	25	37	37	0			H H
ASSATEAGUE IS NATL SEA	0335	01	WORCESTER	38 14	75 8W	10	28	28	0			H H
BALTIMORE WSO ARPT	0465	04	ANNE ARUNDEL	39 11	76 40W	148	61	61	0			C H J
BALTIMORE CITY #	0470	06	BALTIMORE CI	39 17	76 37W	14	25	125	0			C C
BELTSVILLE	0700	04	PRINCE GEORG	39 2	76 53W	120	58	58	5			C C
BENSON POLICE BARRACKS	0732	06	HARFORD	39 30	76 23W	365	48	48				C H
CATOCTIN MOUNTAIN PARK	1530	06	FREDERICK	39 39	77 29W	1610	29	29	0			C H
CHESTERTOWN	1750	05	KENT	39 13	76 4W	40	90	90	0			H H
CLARKSVILLE 3 NNE	1862	06	HOWARD	39 15	76 56W	370	28	28	0			H H
COLLEGE PARK	1995	04	PRINCE GEORG	38 59	76 57W	90	109	109	0			C H
CONOWINGO DAM	2060	06	HARFORD	39 39	76 10W	40	60	60	0			H
CUMBERLAND 2	2282	07	ALLEGANY	39 38	78 45W	730	23	23	0	NOV		H
DALECARLIA RESERVOIR	2325	04	DIS COLUMBIA	38 56	77 7W	150	50	50	0			H
DAMASCUS 2 SW	2335	06	MONTGOMERY	39 16	77 14W	722	20	20	0			H
DAMASCUS 2 SSW	2336	06	MONTGOMERY	39 16	77 14W	670	2	2	0	JAN		H
EDGE MONT	2770	07	WASHINGTON	39 40	77 33W	905	0	57	0			
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 18W	416	40	40	0			H
FREDERICK POLICE BRKS	3348	06	FREDERICK	39 25	77 26W	380	23	23	0			H
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2168	24	24	0			H
GLENN DALE BELL STN	3675	04	PRINCE GEORG	38 58	76 48W	150	75	75	0			H
HAGERSTOWN	3975	07	WASHINGTON	39 39	77 44W	660	53	53	0			H
HANCOCK	4030	07	WASHINGTON	39 42	78 11W	428	62	62	0			C H
LA PLATA 1 W	5080	03	CHARLES	38 32	77 0W	140	81	81	0			H
LAUREL 3 W	5111	04	PRINCE GEORG	39 6	76 54W	400	105	105	0			C H
MC HENRY 2 NW	5832	08	GARRETT	39 35	79 22W	2680	24	24	0			C H
MECHANICSVILLE 5 NE	5865	03	ST MARYS	38 27	76 41W	100	34	34	0			H
MERRILL	5894	08	GARRETT	39 36	79 5W	1790	0	44	0			H
MILLERS 4 NE	5934	06	CARROLL	39 43	76 48W	860	9	9	0			C H
MILLINGTON 1 SE	5985	05	KENT	39 16	75 52W	30	99	99	0			H
NATIONAL ARBORETUM DC	6350	04	DIS COLUMBIA	38 54	76 59W	50	49	49	0			H
OAKLAND 1 SE	6620	08	GARRETT	39 24	79 24W	2419	98	98	0			H
OWINGS FERRY LANDING	6770	03	CALVERT	38 41	76 40W	160	79	79	0			H
POTOMAC FILTER PLANT	7272	06	MONTGOMERY	39 2	77 15W	270	0	34	0			
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	47	47	0			
ROCKVILLE 1 NE	7705	06	MONTGOMERY	39 6	77 6W	440	48	48	0			H
ROYAL OAK 2 SSW	7806	02	TALBOT	38 43	76 11W	10	48	48	0			H
SALISBURY	8000	01	WICOMICO	38 22	75 35W	10	89	89	0			
SALISBURY FAA ARPT #	8005	01	WICOMICO	38 20	75 31W	50	48	48	0			C H
SAVAGE RIVER DAM	8065	08	GARRETT	39 31	79 8W	1495	45	48	4			C H
SNOW HILL 4 N	8380	01	WORCESTER	38 14	75 23W	30	80	80	0			H
TOWSON	8877	06	BALTIMORE	39 23	76 34W	390	58	83	0			
UNIONVILLE	9030	06	FREDERICK	39 27	77 11W	430	56	54	0	OCT		C H
UPPER MARLBORO 3 NNW	9070	04	PRINCE GEORG	38 52	76 47W	100	39	39	3			
VIENNA	9140	02	DORCHESTER	38 29	75 50W	10	47	47	0			
WESTMINSTER POL BRKS	9440	06	CARROLL	39 33	76 58W	765	17	17	0			H
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52W	460	126	126	0			H
DELAWARE												
DOVER	2730	02	KENT	39 9	75 31W	30	108	107	0			C H
GEORGETOWN 5 SW	3570	02	SUSSEX	38 38	75 27W	45	50	50	4			C H
GREENWOOD 2 NE	3595	02	SUSSEX	38 50	75 35W	45	11	11	0			H
LEWES	5320	02	SUSSEX	38 46	75 8W	15	52	52	0			
NEWARK UNIVERSITY FARM	6410	01	NEW CASTLE	39 40	75 44W	90	83	83	3			C H

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
1993

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	
WILMINGTON WSO ARPT	R 9595	01	NEW CASTLE	39 40	75 36 W	74	48	48	0			C H J
WILMINGTON PORTER RSVR	9605	01	NEW CASTLE	39 46	75 32 W	270	84	84	0			H

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

MARYLAND AND
DELAWARE
1993

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 (i.e. not precipitation alone).

NORMALS: The average value of the meteorological element over a time period. Effective 1 January 1993, the averaging period is 1961 to 1990. 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 whole degree that the daily mean temperature is below (above) 65 degrees Fahrenheit.

SOIL TEMPERATURE EXTREMES: The highest and lowest Max and Min temperature for each month and the year.

WIND: (As shown in the "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 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 (e.g., Z14.6 = M-14.6, Z08.2 = M108.2)

SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

- # Thermometers located in 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 the Ground" table in monthly "Climatological Data" publication.
- 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 of 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:

NATIONAL CLIMATIC DATA CENTER
ROOM 120
151 PATTON AVENUE
ASHEVILLE, NC 28801-5001

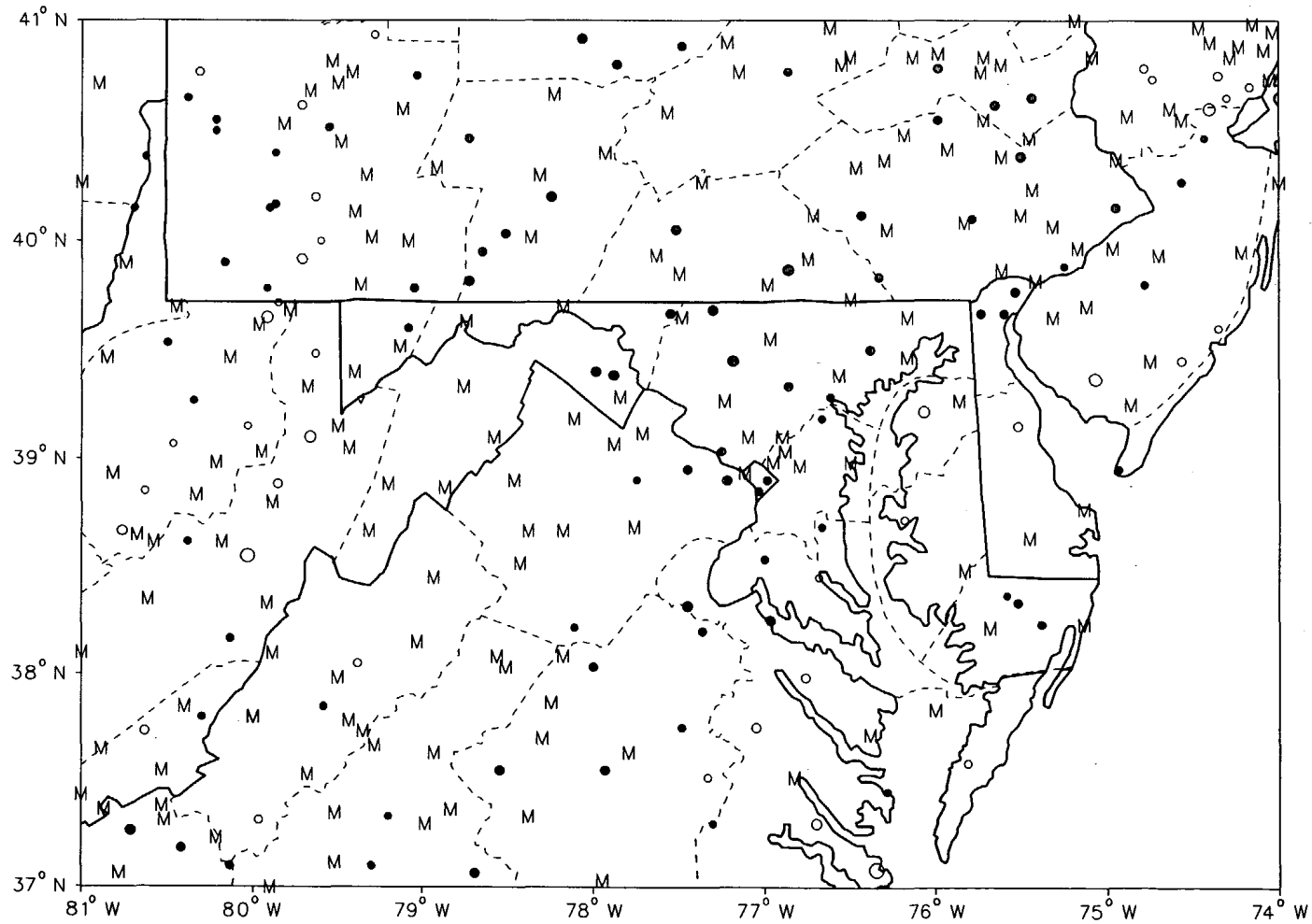
CUMULATIVE ANNUAL PRECIPITATION DEPARTURE FROM INDIVIDUAL STATION NORMALS (1961-1990) FOR 1993 DELAWARE

M INCOMPLETE DATA FOR THE PERIOD

▽ EXACTLY NORMAL

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

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

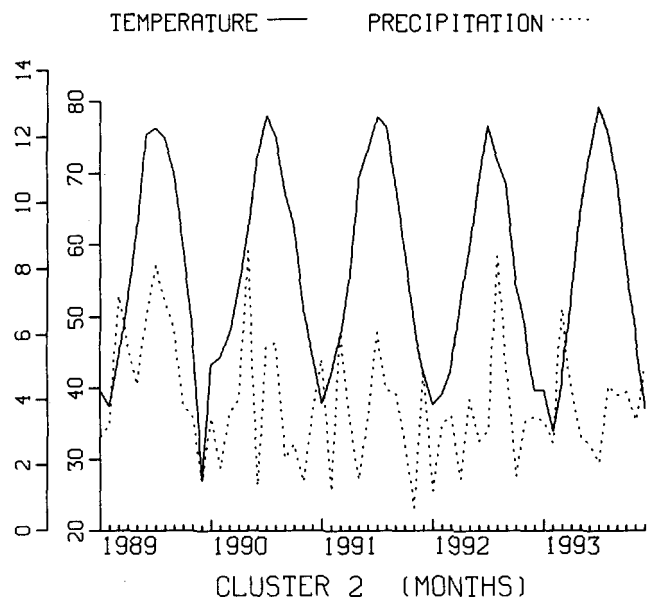
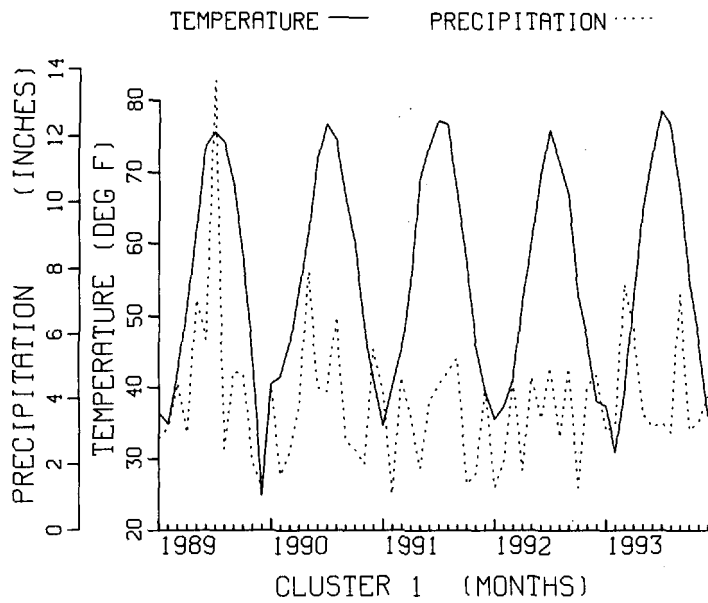


CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

MONTHLY TEMPERATURE AND PRECIPITATION FOR
THE LAST 60 MONTHS
ENDING DECEMBER 1993
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



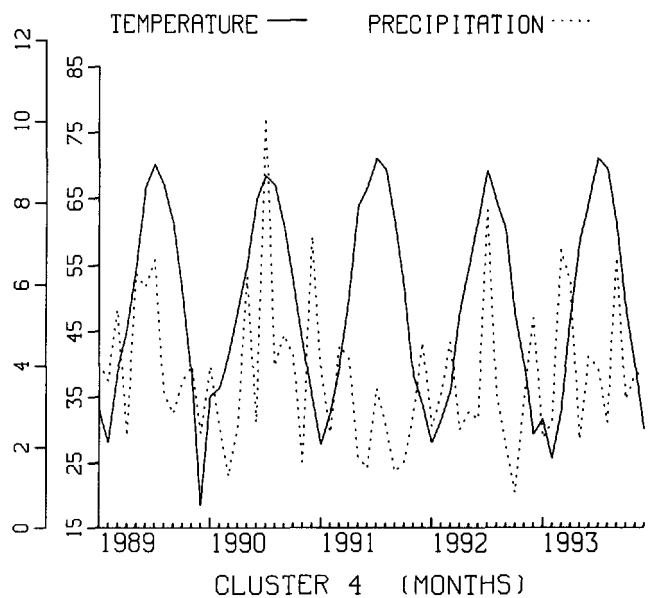
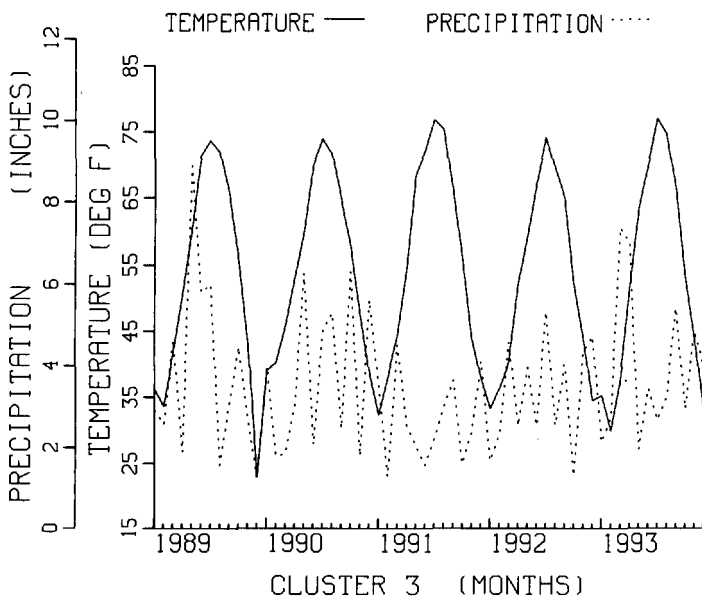
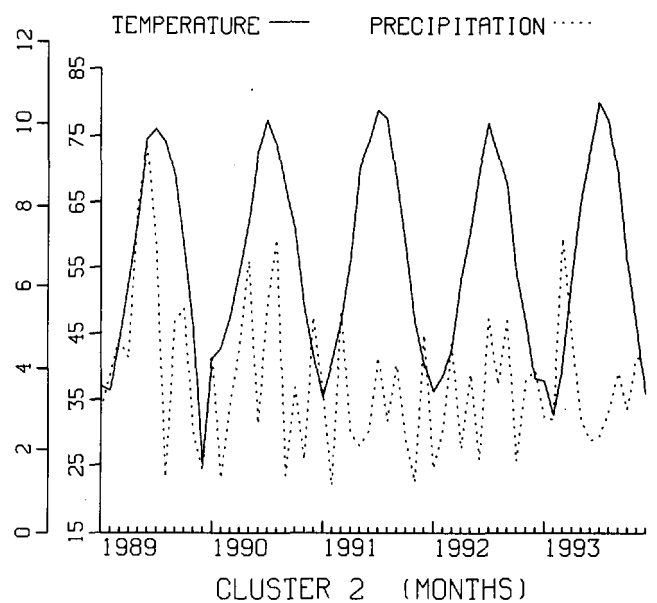
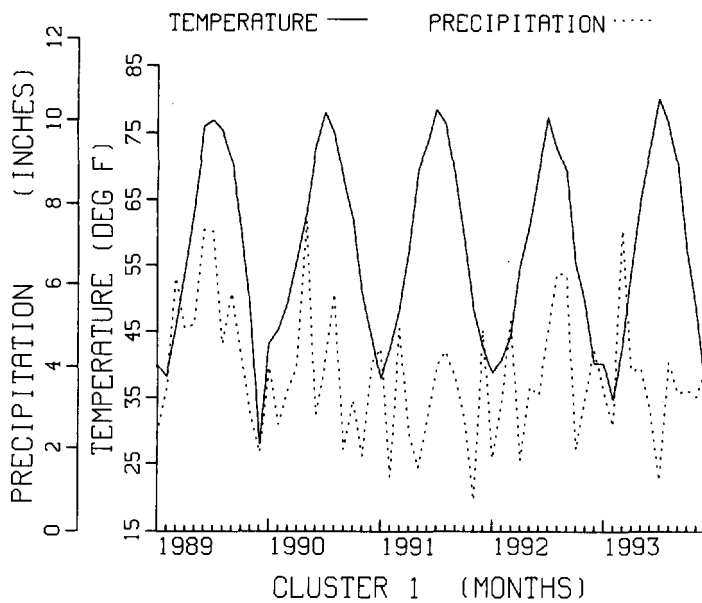
MONTHLY TEMPERATURE AND PRECIPITATION FOR THE LAST 60 MONTHS ENDING DECEMBER 1993 MARYLAND

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

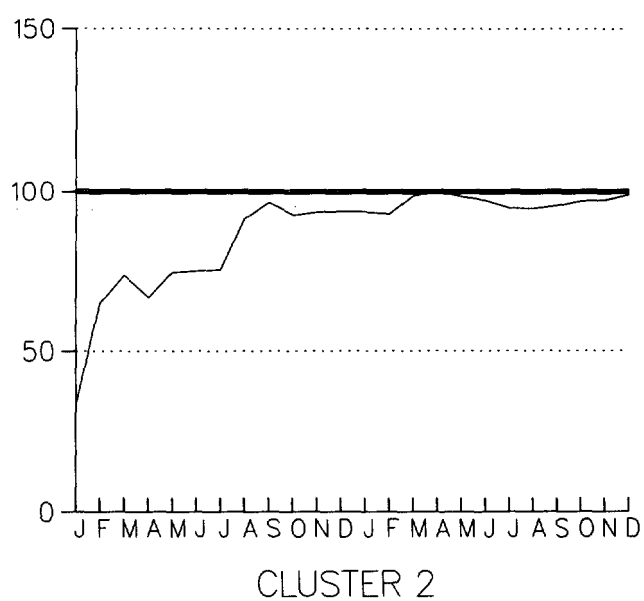
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1961-1990)
FOR THE LAST 24 MONTHS
ENDING DECEMBER 1993
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



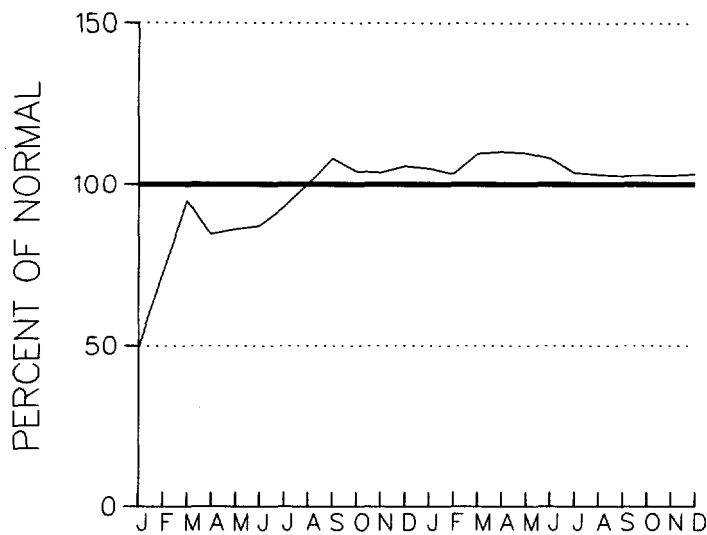
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1961-1990) FOR THE LAST 24 MONTHS ENDING DECEMBER 1993 MARYLAND

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CENTRAL EASTERN SHORE 02
LOWER SOUTHERN 03

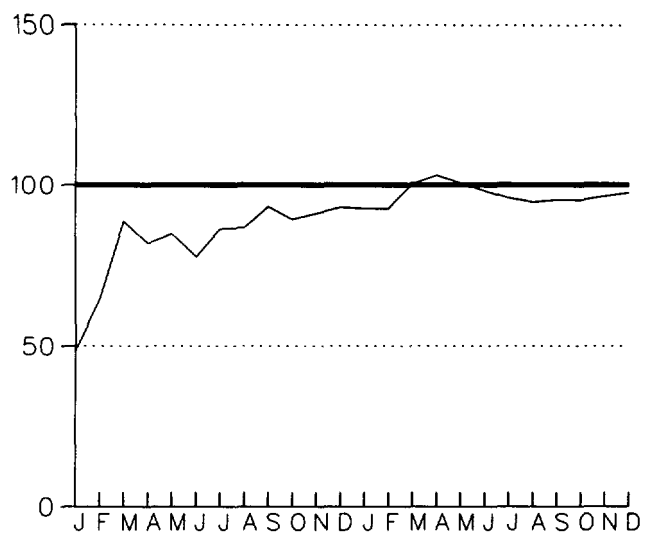
CLUSTER 2 -DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

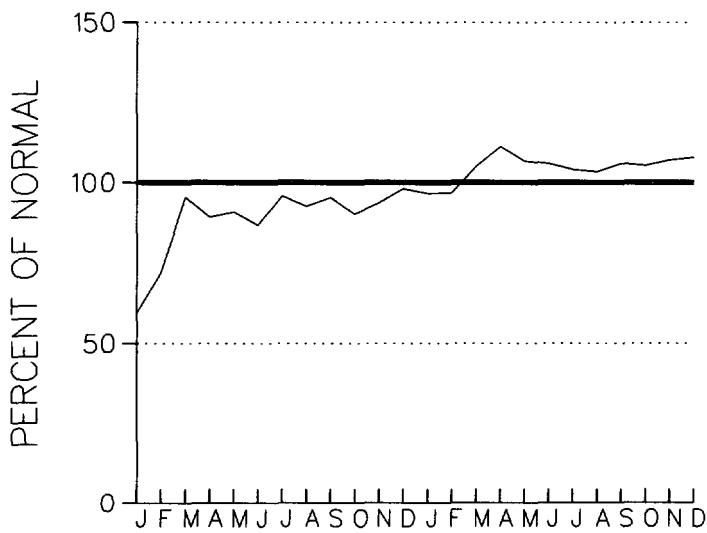
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ALLEGHENY PLATEAU 08



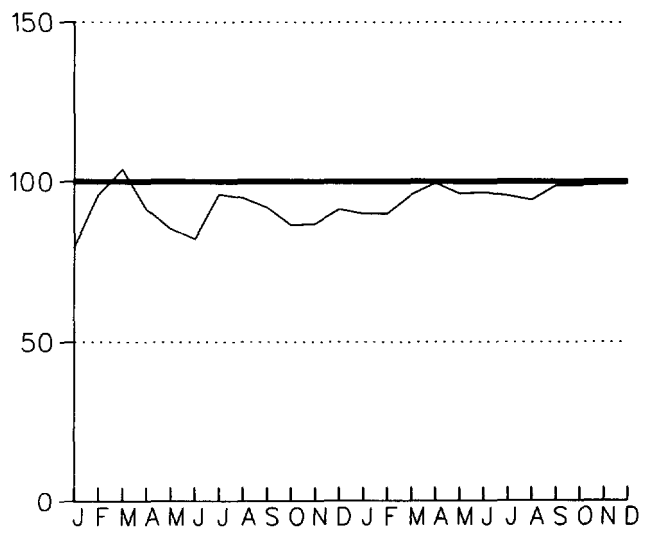
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CLUSTER 2



CLUSTER 3

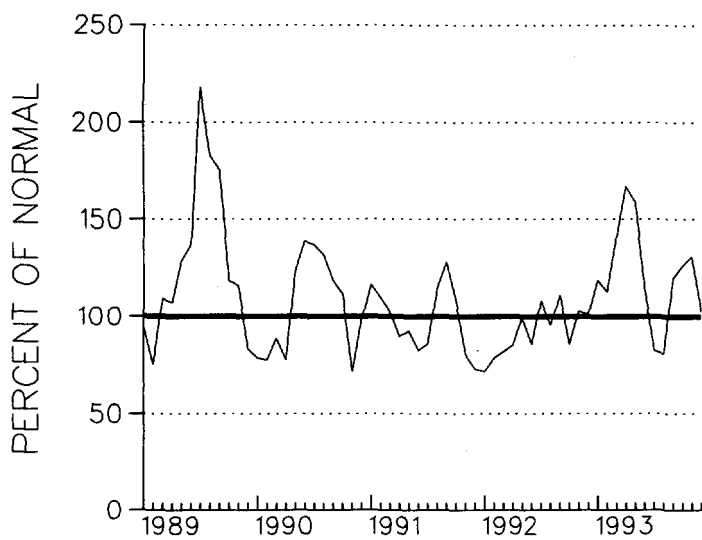


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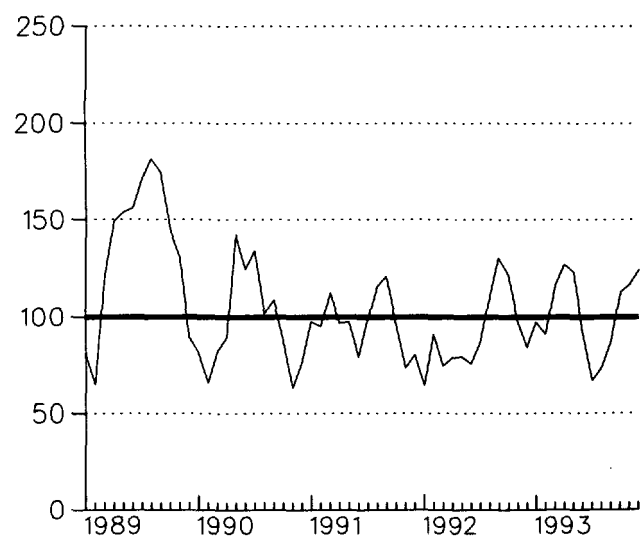
PRECIPITATION DEPARTURES FROM NORMAL (1961-1990)
THREE MONTH RUNNING MEAN
FOR THE 60 MONTHS ENDING WITH DECEMBER 1993 DATA
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



CLUSTER 1



CLUSTER 2

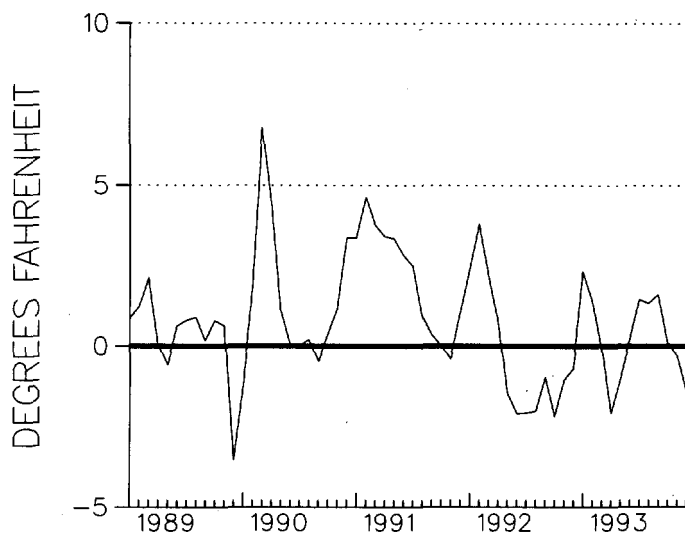
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THREE MONTH RUNNING MEAN
FOR THE 60 MONTHS ENDING WITH DECEMBER 1993 DATA
MARYLAND

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CENTRAL EASTERN SHORE 02
LOWER SOUTHERN 03

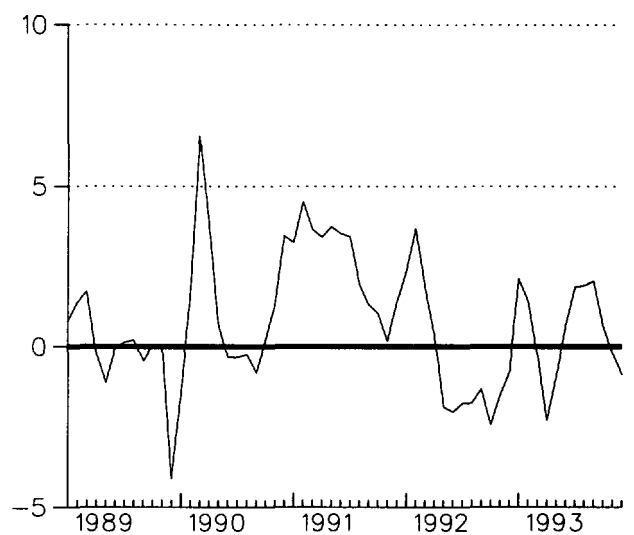
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UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

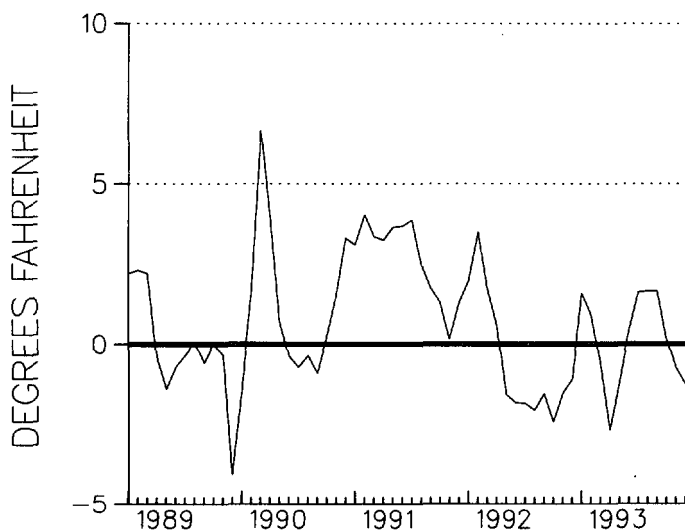
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



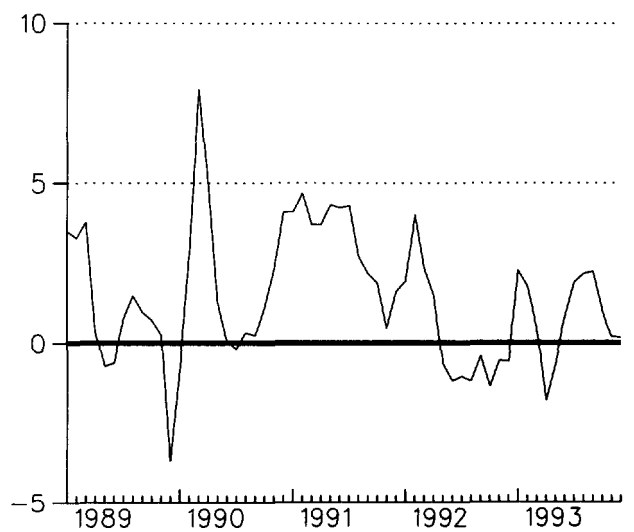
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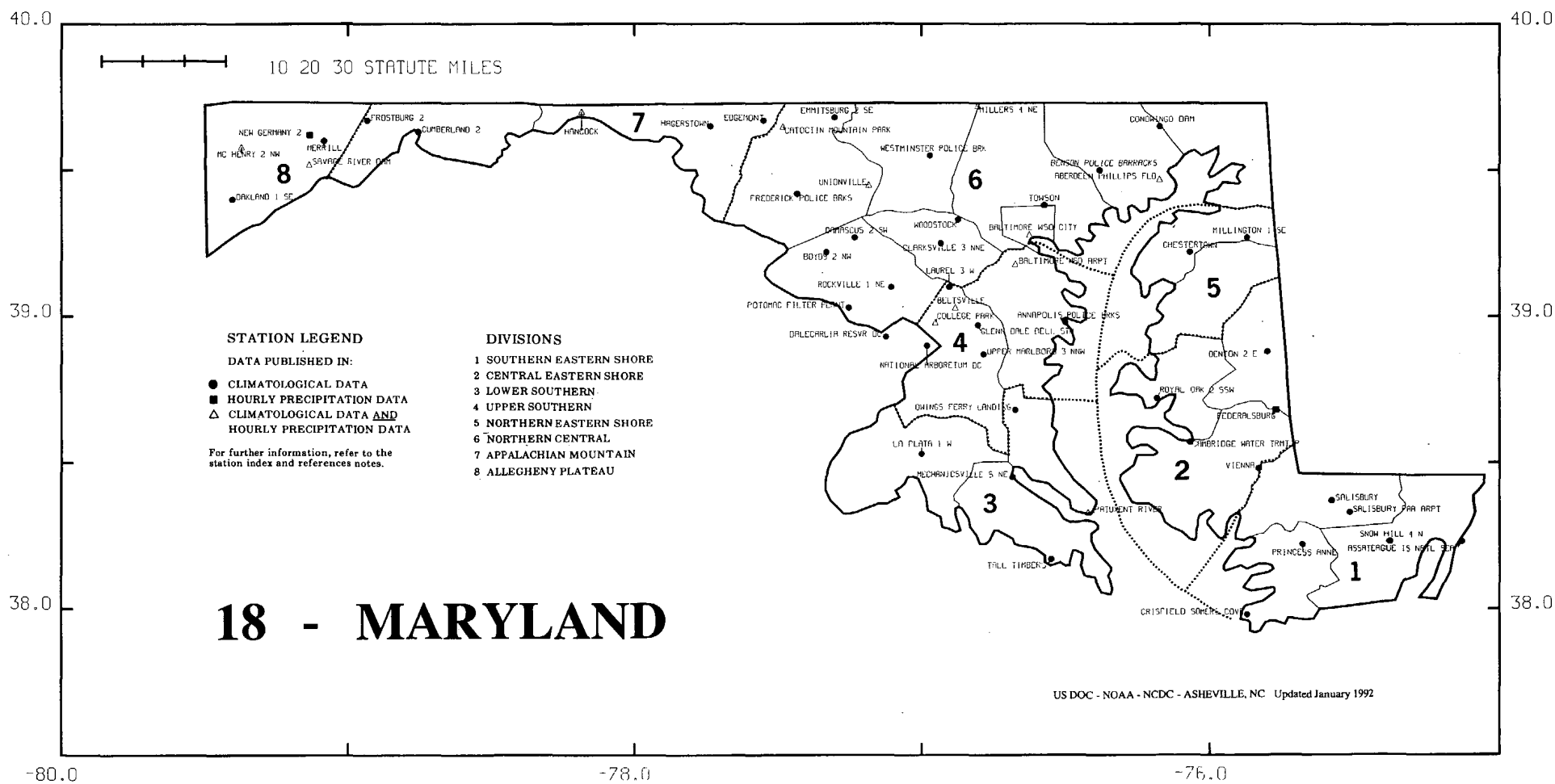
CLUSTER 2



CLUSTER 3



CLUSTER 4



40.0

40.0

10 20 30 STATUTE MILES

07 - DELAWARE**1****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**

DOVER

2

MILFORD 4 SE

GREENWOOD 2 NC

LEWES

GEORGETOWN 5 SW
△

US DOC - NOAA - NCDC - ASHEVILLE, NC
Updated January 1992

39.0

39.0

38.0

-76.0

-75.5

-75.0

38.0

MONTHLY PRECIPITATION TOTALS											ANNUAL 1987 NORTH CAROLINA	
STATION	ANNUAL	MONTH										
		JAN	FEB	MAR	APR	MAY	JUN	JUL	SEP	OCT	NOV	DEC
NORTH CAROLINA												
ASHEVILLE WSO AP	34.57	1.11	1.85	2.75	0.57	3.55				4.19	5.28	4.28
ASHEVILLE	25.67	0.71	1.57	1.81	0.53	2.8			2.77	4.15	2.94	
ASHFORD	36.74E	1.20	2.70	2.90	0.54E	2.8			3.80	4.90	8.80	
BADWIN	-		1.30	2.60	1.20				2.40	4.10	2.90	
B EVERETT JORDAN DAM	-	1.70	1.50	3.60						1.70		

ISSN 0384-8310

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HOURLY PRECIPITATION DATA

NORTH CAROLINA

DECEMBER 1987
WITH ANNUAL SUPPLEMENT
VOLUME 37 NUMBER 12

31 - NORTH CAROLINA

STATION INDEX

STATION	COUNTY	1987 JAN	1987 FEB	1987 MAR	1987 APR	1987 MAY	1987 JUN	1987 JUL	1987 AUG	1987 SEP	1987 OCT	1987 NOV	1987 DEC
NORTH CAROLINA													
ASHEVILLE WSO AP	SWAIN	1.11	1.85	2.75	0.57	3.55							
ASHEVILLE	SWAIN	0.71	1.57	1.81	0.53	2.8							
ASHFORD	SWAIN	1.20	2.70	2.90	0.54E	2.8							
BADWIN	SWAIN	1.30	2.60	1.20	1.20								
B EVERETT JORDAN DAM	SWAIN	1.70	1.50	3.50									

MONTHLY PRECIPITATION MAXIMA

MAXIMA FOR MEASUREMENT PERIODS OF

STATION	MINUTES	15	30	45	1	2	3	4	5	6
NORTH CAROLINA										
ASHEVILLE WSO AP		10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000
ASHEVILLE		10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000
ASHFORD		10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000
BADWIN		10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000
B EVERETT JORDAN DAM		10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000	10 20114000

HOURLY PRECIPITATION

STATION	A.M. HOUR ENDING	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
NORTH CAROLINA																	
ASHEVILLE WSO AP		01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
ASHEVILLE		01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
ASHFORD		01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
BADWIN		01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
B EVERETT JORDAN DAM		01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01

For further information,
call or write to the
NATIONAL CLIMATIC DATA CENTER
Room 120, 151 Patton Avenue, Asheville, NC 28801-5001
Phone (704) 271-4800 or (704) 271-4010 (TDD)
(704) 271-4876 (Fax)

HOURLY PRECIPITATION DATA

NORTH CAROLINA

JANUARY 1987

VOLUME 37 NUMBER 1



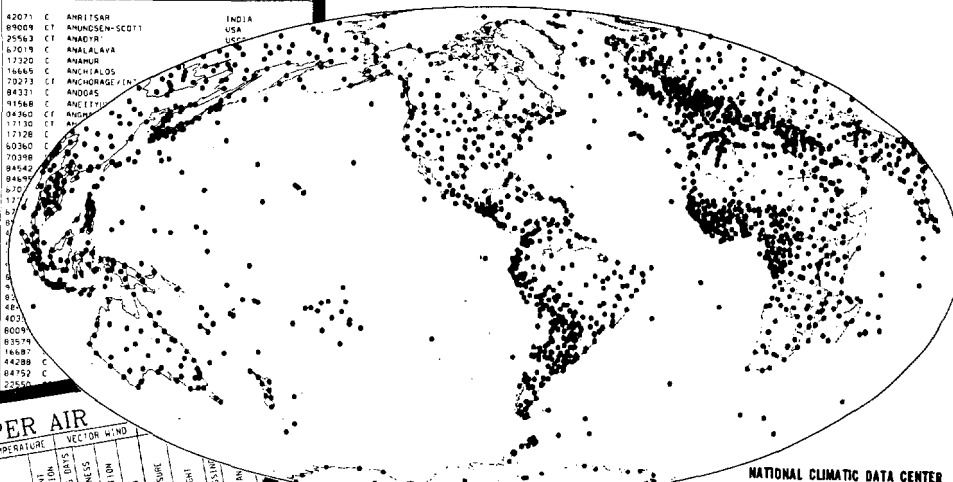
HOURLY PRECIPITATION DATA is published monthly and presents daily, hourly, and maximum short duration data for recording rain gage stations in each state except Alaska. Also included are a published station index and a locator map for the state. In addition to the regularly published data, the December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

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noaa

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

CLIMATIC DATA STATIONS - WORLDWIDE

[illegible]

NATIONAL CLIMATIC DATA CENTER



371.68 C 17.96 C 47592 C 91037	8.22A RH1580 RH1580		
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997.0	1600	7.0	0
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994.0	1900	5.5	0
993.0	2000	5.0	0
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716.0	29700	-133.5	0
715.0	29800	-134.0	0
714.0	29900	-134.5	0
713.0	30000	-135.0	0
712.0	30100	-135.5	0
711.0	30200	-136.0	0
710.0	30300	-136.5	0
709.0	30400	-137.0	0
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707.0	30600	-138.0	0
706.0	30700	-138.5	0
705.0	30800	-139.0	0
704.0	30900	-139.5	0
703.0	31000	-140.0	0
702.0	31100	-140.5	0
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700.0	31300	-141.5	0
699.0	31400	-142.0	0

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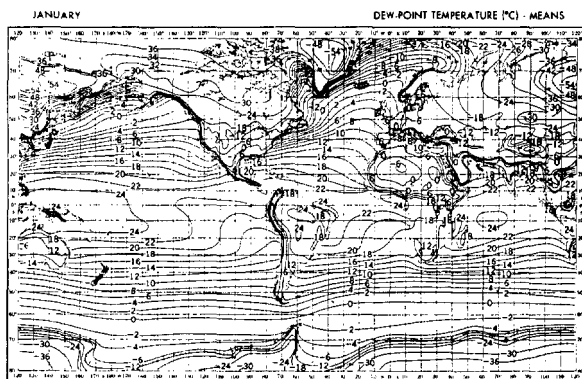
JANUARY 1988
VOL. 41 NO. 1

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MONTHLY CLIMATIC DATA FOR THE WORLD

PREPARED IN COOPERATION WITH THE
WORLD METEOROLOGICAL ORGANIZATION



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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 geopotential wind. For 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.

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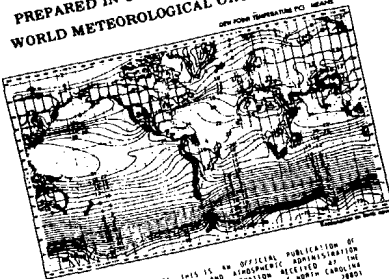
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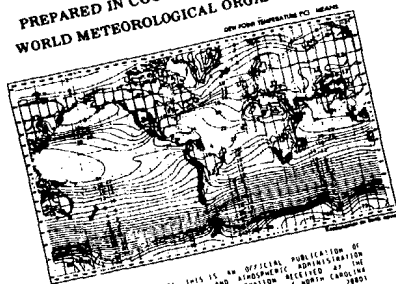


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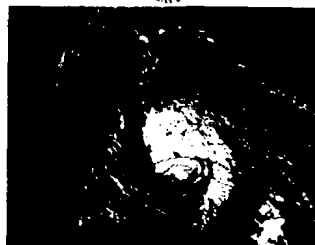
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