

# CLIMATOLOGICAL DATA ANNUAL SUMMARY MARYLAND AND DELAWARE 1988

VOLUME 92 NUMBER 13



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NATIONAL  
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CLIMATIC DATA CENTER  
ASHEVILLE NORTH CAROLINA

# TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

MARYLAND AND  
DELAWARE  
1988

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 ISLAND NATL SE	4.14		3.12				3.25		2.86		1.07	
CRISFIELD SOMERS COVE	2.45	-.78	3.96	.89	3.70	-.34	2.86	-.11	2.89	-.35	1.56	-1.60
PRINCESS ANNE	3.32	-.01	3.86	.56	3.59	-.40	3.51	.19	3.48	-.13	.39	-3.02
SALISBURY	3.58	.06	4.50	1.09	3.76	-.46	4.19	.88	3.23	-.09	.47	-3.15
SALISBURY FAA AP	3.54	.16	4.46	1.13	3.61	-.47	3.63	.47	2.77	-.61	.38	-3.17
SNOW HILL 4 N	3.74	.11	3.53	-.07	4.38	-.22	3.41	.09	2.23	-1.20	.96	-2.84
--DIVISIONAL DATA-->	3.46	.04	3.91	.60	3.81	-.34	3.48	.32	2.91	-.40	.81	-2.62
CENTRAL EASTERN SHORE 02												
CAMBRIDGE WTR TRMT PL	3.67	.18	4.23	1.07	2.61	-1.45	2.93	-.37	3.13	-.47	.57	-3.00
DENTON 2 E	3.91	.59	4.18	1.27	2.48	-1.44	2.74	-.58	3.21	-.29	.28	-3.38
ROYAL OAK 2 SSW	3.95	.51	4.55	1.35	2.37	-1.70	2.28	-1.13	3.51	-.12	.26	-3.17
VIENNA	2.79		4.03	.76	3.49	-.43	3.45	.11	2.98	-.04	.45	-3.11
--DIVISIONAL DATA-->	3.84	.42	4.25	1.13	2.74	-1.19	2.85	-.42	3.21	-.22	.39	-3.09
LOWER SOUTHERN 03												
LA PLATA 1 W	3.48	.34	3.27	.39	2.45	-1.31	2.16	-1.01	4.48	1.01	1.35	-2.43
MECHANICSVILLE 1 E	4.05		3.58		2.27		3.07		2.76		.85	
OWINGS FERRY LANDING	3.32		3.91	1.19	2.71	-.83	3.37	.13	3.84	.04	.42	-3.29
PATUXENT RIVER	3.00		5.09		4.14		3.00		3.79		1.33	
--DIVISIONAL DATA-->	3.51	.24	3.96	1.05	2.89	-.86	2.90	-.23	3.72	.13	.99	-2.64
UPPER SOUTHERN 04												
ANNAPOLIS POLICE BRKS	3.16		4.24		2.39		1.95		4.27		.87	
BALTIMORE WSO AP	3.24	.24	3.25	.27	2.35	-1.37	2.44	-.91	4.37	.93	.84	-2.92
BELTSVILLE	2.60		3.00	.50	2.34	-1.15	2.83	-.54	6.24	2.43	.88	-3.01
COLLEGE PARK	3.00	-.01	2.83	.04	2.72	-.93	1.96	-1.41	6.70	2.85	.58	-3.27
DALECARLIA RESVR D C	2.57	-.50	2.65	-.28	2.79	-1.04	1.94	-1.66	5.39	1.62	1.26	-2.42
GLENN DALE BELL STN	3.17	.11	3.11	.36	2.81	-.89	2.11	-1.41	6.32	2.38	.55	-3.32
LAUREL 3 W	2.83		2.71		2.84	-.82	3.04	-.36	7.24	3.18	1.57	-2.32
NATIONAL ARBORETUM D C	3.23	.06	3.97	1.12	2.49	-1.26	3.16	-.21	5.43	1.50	.51	-3.44
UPPER MARLBORO 3 NNW	3.07	-.21	3.25	.52	2.25	-1.47	2.36	-.96	5.32	1.72	.55	-3.29
--DIVISIONAL DATA-->	3.06	.00	3.29	.50	2.55	-1.13	2.42	-.95	5.70	1.95	.85	-2.95
NORTHERN EASTERN SHORE 05												
CHESTERTOWN	2.84	-.44	3.98	-1.03	2.00	-1.98	2.47	-.78	5.41	1.79	1.06	-3.18
MILLINGTON 1 SE	3.30	.14	3.94	1.07	2.40	-1.30	2.47	-.71	6.77	3.35	.68	-2.99
--DIVISIONAL DATA-->	3.07	-.20	3.96	1.08	2.20	-1.56	2.47	-.73	6.09	2.64	.87	-2.99
NORTHERN CENTRAL 06												
ABERDEEN PHILLIPS FLD	2.77		4.09		2.07		2.80		6.90		.40	
BALTIMORE WSO CI	3.38	.31	3.08	.01	2.19	-1.74	2.04	-1.47	5.34	1.71	1.06	-2.65
BENSON POLICE BARRACKS	3.46	.03	4.19	1.31	2.52	-1.52	3.39	-.61	7.25	3.20	.31	-3.99
BOYDS 2 NW	1.92		1.93		2.55		2.56		9.98		.52	
BRIGHTON DAM	3.26	.30	2.57	-.15	2.40	-1.33	2.80	-.67	8.42	4.49	1.00	-2.89
CATOCTIN MOUNTAIN PARK	2.65		2.31		1.70		2.33		12.83		.76	
CLARKSVILLE 3 NNE	2.74		3.21		2.47		2.68		6.67		.49	
CONOWINGO DAM	3.28		4.32	1.47	2.48	-1.51	4.07	.25	8.09	4.36	.48	-3.81

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

MARYLAND AND  
DELAWARE  
1988

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 ISLAND NATL SE	4.75						3.25		3.84		.64			
CRISFIELD SOMERS COVE			2.70	-1.69	1.54		2.85	-.36	3.24	.15	.37	-2.83		
PRINCESS ANNE	9.36	5.54	2.44	-3.19	3.33	-.64	2.79	-.89	3.01	-.23	.46	-2.94	39.54	-4.90
SALISBURY	6.68	2.92	3.97	-1.75	3.18	-.41	2.97	-.66	2.96	-.15	.59	-3.03	40.08	-4.75
SALISBURY FAA AP	7.40	3.00	3.48	-2.24	2.76	-1.18	3.27	-.46	3.31	.25	.69	-3.02	39.30	-6.14
SNOW HILL 4 N	7.16	3.17	3.17	-2.26	3.09	-.44	3.06	-.74	2.80	-.58	.37	-3.34	37.90	-8.32
--DIVISIONAL DATA-->	7.07	3.14	3.15	-2.05	3.09	-.50	3.03	-.53	3.19	.00	.52	-3.00	38.43	-5.34
CENTRAL EASTERN SHORE 02														
CAMBRIDGE WTR TRMT PL	4.61	.30	3.77	-1.51	1.80	-1.92	2.41	-.87	5.68	1.96	.65	-3.06	36.06	-9.14
DENTON 2 E	4.53	.19	3.72	-1.26	4.31	.81	2.27	-1.10	7.36	3.83	.53	-2.99	39.52	-4.35
ROYAL OAK 2 SSW	4.93	.54	4.41	-.68	2.84	-.88	2.07	-1.39	6.39	2.66	.86	-2.88	38.42	-6.89
VIENNA			3.02	-2.61	2.02	-1.95	2.63	-.81	5.92	2.60	.72	-2.85		
--DIVISIONAL DATA-->	4.69	.55	3.73	-1.49	2.74	-.91	2.35	-.98	6.34	2.81	.69	-2.91	37.82	-6.30
LOWER SOUTHERN 03														
LA PLATA 1 W	5.48	1.45	2.84	-2.08	2.08	-1.36	1.98	-1.43	5.87	2.67	.92	-2.50	36.36	-6.26
MECHANICSVILLE 1 E	5.55		2.69		2.50		2.03		6.25		.78		36.38	
OWINGS FERRY LANDING	4.00	.34	3.77	-.42	2.37	-1.15	1.91	-1.36	6.27	2.94	.87	-2.42	36.76	
PATUXENT RIVER	3.49		2.55		1.93		2.29		5.12		.76		36.49	
--DIVISIONAL DATA-->	4.63	.53	2.96	-1.66	2.22	-1.28	2.05	-1.22	5.88	2.54	.83	-2.55	36.54	-5.95
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	4.78		4.68		2.14		2.19		5.66		1.31		37.64	
BALTIMORE WSO AP	3.78	-.11	2.64	-1.98	2.05	-1.41	1.59	-1.52	4.78	1.67	.97	-2.43	32.30	-9.54
BELTSVILLE	3.72	-.42	5.26	.55	2.11	-1.60	1.74	-1.50	5.35	2.38	1.26	-2.08	37.33	
COLLEGE PARK	3.41	-.65	5.60	.60	1.97	-1.59	1.80	-1.31	5.06	1.96	1.18	-2.20	36.81	-5.92
DALECARLIA RESVR D C	3.37	-.67	3.81	-.79	1.81	-1.61	1.91	-1.39	5.32	2.17	1.05	-2.44	33.87	-9.01
GLENN DALE BELL STN	7.18	2.87	4.86	-.05			1.94	-1.36	6.14	2.80				
LAUREL 3 W	5.27	1.39	4.35	-.18	3.12	-.26	1.71	-1.42	6.03	2.63	1.42	-1.92	42.13	
NATIONAL ARBORETUM D C	5.09	.89	3.57	-1.53	1.83	-1.75	2.82	-.35	5.79	2.71	1.27	-2.09	39.16	-4.35
UPPER MARLBORO 3 NNW	3.90	-.16	3.34	-1.32	2.15	-1.58	2.16	-1.13	5.56	2.40	.83	-2.56	34.74	-8.04
--DIVISIONAL DATA-->	4.50	.51	4.23	-.51	2.15	-1.37	1.98	-1.16	5.52	2.39	1.16	-2.22	37.41	-4.94
NORTHERN EASTERN SHORE 05														
CHESTERTOWN	4.00	.06	4.63	.02	1.82	-1.76	2.11	-1.05	5.88	2.42	.94	-2.93	37.14	-6.80
MILLINGTON 1 SE	6.23	2.36	4.57	-.17	1.98	-1.81	2.17	-.88	5.17	1.70	.85	-2.73	40.53	-1.97
--DIVISIONAL DATA-->	5.12	1.19	4.60	.09	1.90	-1.77	2.14	-.92	5.53	2.13	.90	-2.75	38.85	-3.79
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FLD	5.56		5.60		3.17		2.66		5.14		.91		42.07	
BALTIMORE WSO CI	3.46	-.57	5.30	.73	1.99	-1.67	1.61	-1.48	5.28	1.94	.89	-2.89	35.62	-7.77
BENSON POLICE BARRACKS	7.68	3.33	5.96	1.05	3.30	-.88	2.28	-.70	5.21	1.32	1.30	-2.69	46.85	-.15
BOYDS 2 NW	5.60		2.38		2.94		1.43		3.45		.87		36.13	
BRIGHTON DAM	7.00	3.46	3.30	-.83	2.80	-.89	2.20	-.92	5.83	2.66	1.70	-1.71	43.28	1.52
CATOCTIN MOUNTAIN PARK	3.47		3.45		3.08		1.45		4.81		.44		39.28	
CLARKSVILLE 3 NNE	5.60		3.88		2.56		1.84		4.91		1.13		38.18	
CONOWINGO DAM	4.57	.20	4.53	-.01	2.61	-1.28	2.40	-.79	5.40	1.92	1.26	-2.61	43.49	

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MARYLAND AND  
DELAWARE  
1988

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
DAMASCUS 2 SW	2.93		2.45		2.62		2.71		11.76		.48	
EMMITSBURG 2 SE	2.86		2.42		1.57		3.50		7.01		.95	
FREDRICK POLICE BRKS	2.10		1.80		1.82		2.06		9.49		.85	
FREDRICK 3 E	3.00	.12	1.98	-.57	2.29	-1.23	2.77	-.84	11.49	7.63	1.11	-2.91
MILLERS 4 NE					2.08		2.48		6.16		.53	
POTOMAC FILTER PLANT	2.21		2.02		1.72		2.58		8.94		1.03	
ROCKVILLE 1 NE	2.56	-.39	2.80	.14	2.29	-1.25	3.37	.13	8.38	4.61	1.19	-2.80
TOWSON	2.27	-1.04	5.32	2.14	3.45	-.59	2.43	-1.55	8.24	4.23	.22	-3.82
UNIONVILLE	2.30	-.46	1.64	-.77	1.91	-1.47	2.68	-.83	7.52	3.85	.74	-3.34
WESTMINSTER POLICE BRK	2.92	-.20	2.23	-.59	2.26	-1.66	3.07	-.62	7.00	3.13	.41	-3.68
WOODSTOCK	3.01	-.13	3.17	.41			2.73	-.89	7.41	3.64	.54	-3.49
--DIVISIONAL DATA-->	2.75	-.38	3.00	.19	2.27	-1.55	2.81	-.82	8.13	4.31	.62	-3.43
APPALACHIAN MOUNTAIN 07												
CUMBERLAND 2	2.35	-.18	1.40	-1.01	1.36	-2.25	3.06	-.30	6.96	3.35	1.72	-2.06
EDGE MONT	2.44	-.63	1.65	-.97	1.61	-2.10	2.29	-1.36	9.46	5.64	.60	-3.59
FROSTBURG 2	2.81		2.45		2.15		3.69		5.94		1.73	
HAGERSTOWN	2.22	-.58	1.37	-.89	1.08	-2.30	2.07	-1.43	6.72	2.98	.76	-3.16
HANCOCK FRUIT LAB	2.39	-.22	1.16	-1.20	1.71	-1.78	2.66	-.58	7.70	4.29	1.61	-2.25
--DIVISIONAL DATA-->	2.44	-.31	1.60	-.90	1.58	-2.08	2.87	-.56	6.83	3.14	1.46	-2.29
ALLEGHENY PLATEAU 08												
MC HENRY 2 NW	3.28		4.33		3.95		4.01		5.27		2.00	
MERRILL	2.34	-.57	1.95	-.77	1.78	-2.14	3.96	.29	6.65	2.78	1.78	-1.82
OAKLAND 1 SE	1.98	-1.81	2.18	-1.02	1.73	-2.69	3.08	-1.43	6.50	2.06	1.39	-2.97
SAVAGE RIVER DAM	2.55	-.05	1.49	-.86	1.33	-2.05	2.58	-.90	6.79	3.12	1.52	-1.98
--DIVISIONAL DATA-->	2.60	-.93	2.67	-.42	2.34	-1.87	3.22	-.97	6.19	2.07	1.64	-2.50
DELAWARE												
NORTHERN 01												
NEWARK UNIVERSITY FARM	1.50		4.17	1.44	1.93	-1.73	3.11	-.39	7.51	3.99	1.10	-2.65
WILMINGTON WSO AP	2.46	-.65	4.14	1.15	1.82	-2.05	2.59	-.80	4.95	1.72	.21	-3.30
WILMGTN PORTER RESVR	2.90	-.39	3.55	.55	2.12	-1.95	3.86	-.02	5.68	2.11	.32	-3.68
--DIVISIONAL DATA-->	2.68	-.45	4.01	1.14	2.08	-1.69	3.13	-.41	6.04	2.68	.85	-2.84
SOUTHERN 02												
DOVER	3.58	.34	4.57	1.71	2.35	-1.52	2.63	-.58	5.23	1.73	1.96	-1.65
GEORGETOWN 5 SW	3.74	.39	4.60	1.58	3.48	-.49	3.26	.06	4.36	1.10	.42	-3.17
GREENWOOD 2 NE	2.95		4.28		2.95		3.28		4.87		.35	
LEWES	4.02	.55	3.92	.59	3.21	-1.00	2.61	-.80	4.06	.52	1.06	-2.64
MILFORD 4 SE	3.73	.34	3.63	.50	2.84	-1.19	2.63	-.78	3.84	.36	.87	-2.85
--DIVISIONAL DATA-->	3.60	.17	4.20	1.06	2.97	-1.06	2.88	-.43	4.47	1.07	.93	-2.72

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	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
DAMASCUS 2 SW	5.57		3.52		3.84		1.68		4.28		1.34		43.18	
EMMITSBURG 2 SE	4.02		2.98		2.73		1.66		4.08		1.35		35.13	
FREDRICK POLICE BRKS	4.47		4.18		3.31	M	.82		4.04	M	1.46	M	36.40	
FREDERICK 3 E	4.82	1.18	3.47	-.24	2.97	-.58	1.91	-1.22	3.77	.61	1.50	-1.73	41.08	.22
MILLERS 4 NE	4.51		3.60		2.15		2.57		4.25		1.46			
POTOMAC FILTER PLANT	5.93		3.20		2.76		1.60		4.61		1.02		37.62	
ROCKVILLE 1 NE	5.56	1.78	2.80	-1.66	2.90	-.56	1.58	-1.42	4.84	1.78	1.16	-1.84	39.43	-1.48
TOWSON	9.11	4.98	4.26	-.53	2.92	-1.23	2.21	-1.22	5.46	1.63	1.20	-2.62	47.09	.38
UNIONVILLE	5.25	1.66	2.91	-.85	1.58	-1.93	1.83	-1.10M	3.33		.65	-2.65M	32.34	
WESTMINSTER POLICE BRK	5.37	1.37	3.48	-.52	2.96	-.87	.96	-2.14	4.84	1.63	1.91	-1.58	37.41	-5.73
WOODSTOCK	7.25	3.69	3.46	-.52	2.82	-1.18	1.85	-1.27	5.14	1.86	1.31	-2.21		
--DIVISIONAL DATA----->	5.43	1.53	3.89	-.41	2.80	-1.03	1.87	-1.28	4.74	1.39	1.15	-2.37	39.46	-3.85
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	2.40	-.79	4.65	1.32	3.95	1.03	1.06	-1.65	3.37	.96	1.27	-1.37	33.55	-2.95
EDGEMONT	3.91	.66	3.83	.00	2.69	-1.47	1.31	-1.99	4.38	1.00	1.18	-1.84	35.35	-6.65
FROSTBURG 2	3.19		5.37		5.08		1.93		4.18		1.66		40.18	
HAGERSTOWN	4.27	.93M	2.51		2.86	-.44M	.98		3.87	.85M	.44		29.15	
HANCOCK FRUIT LAB	3.08	-.48	4.31	1.01	3.60	.38	1.25	-1.68	3.58	.91	1.30	-1.29	34.35	-2.89
--DIVISIONAL DATA----->	3.24	-.18	4.78	1.27	3.87	.68	1.41	-1.56	3.75	1.01	1.41	-1.43	35.24	-3.21
ALLEGHENY PLATEAU 08														
MC HENRY 2 NW	2.81		7.18		5.85		2.78		4.75		2.63		48.84	
MERRILL	1.59	-2.08	7.45	3.79	4.78	1.92	2.74	-.14	3.90	1.29	1.75	-1.38	40.67	1.17
OAKLAND 1 SE	2.02	-2.66	3.03	-1.57	4.97	1.86	1.62	-1.55	3.97	.83	1.94	-1.96	34.41	-12.91
SAVAGE RIVER DAM	1.45	-2.17	5.53	1.92	4.06	1.07	1.57	-1.31	3.48	1.13M	1.45		33.80	
--DIVISIONAL DATA----->	2.09	-2.18	5.25	1.07	4.96	1.80	1.99	-1.14	4.07	1.07	2.29	-1.36	39.31	-5.36
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM	5.99	1.67	5.38	.88	2.62	-.99	2.13	-1.05	6.21	3.02	1.03	-2.50M	42.68	
WILMINGTON WSO AP	8.29	4.39	3.03	-1.00	2.18	-1.41	1.94	-.95	5.29	1.96	.90	-2.64	37.80	-3.58
WILMGTN PORTER RESVR	6.58	2.45	5.16	.74	3.10	-.71	2.03	-1.20	5.81	2.05	1.02	-2.72	42.13	-2.77
--DIVISIONAL DATA----->	6.44	2.44	4.36	.19	2.63	-.96	2.03	-1.14	5.77	2.39	.98	-2.57	41.00	-1.22
SOUTHERN 02														
DOVER	4.19	-.08	3.98	-1.14	2.72	-1.42	2.57	-.99	5.74	2.21	.82	-2.71	40.34	-4.10
GEORGETOWN 5 SW	4.82	.80	2.77	-2.66	2.09	-1.42	2.88	-.60	4.09	.80	.55	-3.04	37.06	-6.65
GREENWOOD 2 NE	7.60		4.04		3.01		2.57		5.64		.60		42.14	
LEWES	6.42	2.26	3.08	-2.28	1.59	-1.67	2.87	-.46	3.57	.08	.39	-3.43	36.80	-8.28
MILFORD 4 SE	6.53	2.15	3.51	-1.27	2.83	-.92	2.38	-1.09	5.00	1.57	.41	-3.40	38.20	-6.58
--DIVISIONAL DATA----->	5.91	1.68	3.48	-1.76	2.45	-1.22	2.65	-.82	4.81	1.44	.55	-3.18	38.90	-5.77

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

MARYLAND AND  
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1988																											
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 ISLAND NATL SE	35.7		M40.6		M		M53.8		61.6		70.4		M73.0		M		M		54.1		M49.8		39.0		M		
CRISFIELD SOMERS COVE	M32.4	-4.4	39.1	1.1	46.4	1.5	54.7	-1.7	64.6	-1.1	74.1	3.1	79.7	1.9	M69.4	-2.5	55.7	-5.1	51.5	1.0	39.6	-1.3	M				
PRINCESS ANNE	31.0	-4.6	39.6	2.3	M46.5	1.5	M52.9	-1.9	63.1	-1.7	72.3	1.6	78.1	2.1	M78.3	3.3	66.8	-1.8	51.4	-6.2	49.9	1.9	38.4	-0.8	M55.7	-1.4	
SALISBURY	33.0	-3.7	40.0	1.6	47.8	1.8	54.0	-1.8	64.3	-1.5	73.6	1.0	78.8	1.8	78.8	2.8	68.2	-1.7	53.6	-5.5	50.9	1.4	39.4	-0.9	M56.9	-1.3	
SALISBURY FAA AP	31.3	-3.8	37.8	1.2	45.6	1.4	52.6	-1.6	63.4	3	72.1	1.5	78.7	2.2	78.1	2.8	66.5	-2.1	52.3	-5.1	49.5	1.8	37.5	-1.3	M55.5	-1.3	
SNOW HILL 4 N	32.9	-3.1	39.7	2.2	46.5	1.5	53.5	-1.1	63.8	3	72.9	1.3	78.1	2.2	78.1	3.1	67.7	-1.3	52.3	-5.8	49.6	1.1	38.6	-0.9	M56.1	0	
--DIVISIONAL DATA-----	32.7	-3.3	39.5	2.0	46.6	1.5	53.6	-1.3	63.5	-1.3	72.6	1.6	77.3	7	78.6	2.8	67.7	-1.9	53.2	-5.5	50.2	1.3	38.8	-1.0	M56.2	-1.3	
CENTRAL EASTERN SHORE 02																											
CAMBRIDGE WTR TRMT PL	32.0	-2.7	39.6	3.3	47.6	3.1	54.1	-1.8	65.1	-1.9	75.3	2.8	80.9	4.0	80.0	4.4	69.8	3	55.1	-3.4	50.1	1.7	39.5	1.8	M57.4	1.2	
DENTON 2 E	29.7	-4.4	37.4	1.3	M46.1	2.0	51.8	-3.1	63.8	-1.5	73.6	1.0	80.9	4.0	78.9	3.3	67.4	-1.7	52.6	-5.1	48.5	9	37.6	-0.2	M55.7	-2	
ROYAL OAK 2 SSW	31.3	-3.7	38.7	2.0	46.8	1.6	53.6	-2.2	64.7	-1.5	73.6	1	80.3	2.6	79.5	2.9	68.1	-2.2	54.4	-4.9	49.6	7	38.9	0	M56.6	-1.3	
VIENNA	31.6	-4.3	39.1	1.6	48.0	2.4	M55.1	-1.5	65.8	1.0	74.7	1.7	M	M79.9	3.6	67.9	-2.0	M53.3	-5.6	48.9	-1	38.5	-1.1	M			
--DIVISIONAL DATA-----	31.2	-3.8	38.7	2.0	47.1	2.2	53.7	-1.6	64.9	3	74.3	1.4	80.7	3.5	79.6	3.6	68.3	-1.4	53.9	-4.8	49.3	8	38.6	-0.2	M56.7	1.2	
LOWER SOUTHERN 03																											
LA PLATA 1 W	31.0	-3.6	38.4	1.6	47.2	2.0	54.4	-1.1	64.1	1	70.9	-1.7	77.3	1.4	77.4	2.6	66.4	-2.4	52.4	-5.2	48.2	9	38.2	3	M55.5	-1.3	
MECHANICSVILLE 1 E	29.9		37.8		46.3		53.2		63.9		71.5		78.4		77.7		65.3		50.9		47.4		37.2		M55.0		
OWINGS FERRY LANDING	30.0	-4.5	37.6	1.3	46.2	1.6	53.5	-2.0	64.5	1	72.6	4	79.3	3.0	78.6	3.6	67.4	-1.4	52.6	-5.1	47.9	0	37.5	-0.6	M55.6	-1.3	
PATUXENT RIVER	30.4		35.9		44.6		M51.6		62.6		72.1		78.8		78.3		67.7		53.0		48.3		38.0		M55.1		
--DIVISIONAL DATA-----	30.3	-4.6	37.4	5	46.1	9	53.2	-2.5	63.8	-8	71.8	-6	78.5	1.8	78.0	2.4	66.7	-2.6	52.2	-5.8	48.0	0	37.7	-0.9	M55.3	-1.9	
UPPER SOUTHERN 04																											
ANNAPOLIS POLICE BRKS	30.6		37.9		46.4		53.4		64.7		74.8		79.2		79.1		M67.9		52.8		46.9		37.3		M55.9		
BALTIMORE WSO AP	28.7	-4.0	35.9	1.2	45.1	1.8	52.0	-2.0	64.0	1.6	73.0	1.8	80.3	3.5	78.5	2.9	66.8	-2.1	51.3	-5.6	48.1	1.8	36.3	-0.2	M55.0	-1	
BELTSVILLE	26.2	-5.1	35.7	2.7	44.6	2.7	51.3	-1.4	63.1	1.3	71.7	1.4	79.1	3.9	77.5	3.5	65.5	-1.7	50.8	-4.2	45.7	7	35.5	2	M53.9	1.3	
COLLEGE PARK	28.4	-5.6	36.4	2.4	M45.6	1.0	53.1	-2.3	64.9	2	74.1	1.2	80.6	3.4	80.1	4.1	67.4	-1.8	52.4	-5.0	46.7	-2	36.6	-0.7	M55.5	-5	
DALECARLIA RESVR D C	28.8	-5.1	36.1	2.4	M45.6	7	53.1	-2.6	64.1	-1.9	72.5	1.7	78.9	1.7	78.9	3.0	66.9	-2.3	51.2	-6.4	46.5	-5	36.4	-1.0	M54.9	-1.2	
GLENN DALE BELL STN	28.3	-4.9	37.4	2.0	45.0	1.1	52.1	-2.1	62.4	-1.0	71.6	4	77.8	2.2	77.2	2.7	M		50.7	-5.9	46.6	3	M		M		
LAUREL 3 W	M29.6	-3.8	35.1	1.6	M46.4	2.2	M53.4	-1.8	64.0	-1.4	M73.4	1.8	80.5	3.3	78.1	1.9	M67.1	-2.5	50.7	-7.5	46.6	-9	35.5	-1.4	M55.0	-1.9	
NATIONAL ARBORETUM D C	28.2	-6.6	36.0	-8	45.4	-2	52.9	-3.3	63.7	-1.5	72.7	-1.7	80.0	2.3	78.1	1.4	64.7	-5.4	50.4	-7.9	45.2	-2.9	34.1	-4.4	M54.3	-2.5	
UPPER MARLBORO 3 NNW	26.3		35.4		44.3		51.2		62.8		71.4		78.5		77.7		64.6		50.0		45.3		34.9		M53.5		
--DIVISIONAL DATA-----	28.3	-4.9	36.2	1.1	45.4	1.7	52.5	-1.9	63.7	0	72.8	9	79.4	2.9	78.4	3.1	66.4	-2.3	51.1	-5.9	46.4	-2	35.8	-1.1	M54.7	-1.5	
NORTHERN EASTERN SHORE 05																											
CHESTERTOWN	28.7	-4.4	M35.5	5	45.4	2.0	52.1	-2.0	64.5	8	73.4	1.1	80.5	3.6	79.0	3.2	67.8	-1.5	53.2	-4.6	48.0	1.0	36.1	-0.9	M55.4	-1	
MILLINGTON 1 SE	28.3	-3.9	36.7	2.6	45.2	2.4	52.3	-1.9	63.4	7	71.4	3	78.3	2.7	77.1	2.6	M66.2	-1.8	51.2	-5.3	47.5	1.4	36.6	5	M54.5	1	
--DIVISIONAL DATA-----	28.5	-4.7	36.1	1.0	45.3	1.8	52.2	-1.9	64.0	5	72.4	3	79.4	2.9	78.1	2.7	67.0	-2.0	52.2	-5.4	47.8	8	36.4	-0.6	M55.0	-1.3	
NORTHERN CENTRAL 06																											
ABERDEEN PHILLIPS FLD	M		M39.1		M45.5		M53.2		M62.7		72.7		M79.5		77.7		M66.2		M51.8		M		M		M		
BALTIMORE WSO CI	30.5	-5.0	36.8	5	46.9	1.4	52.4	-4.4	66.5	2	77.6	2.3	84.1	4.2	82.6	4.2	70.2	-1.5	55.4	-4.7	50.1	9	38.3	-1.0	M57.6	-1.3	
BENSON POLICE BARRACKS	27.0	-4.2	35.8	2.2	45.9	3.8	53.4	6	64.6	2.2	74.3	3.7	79.5	4.6	78.1	4.3	66.7	-0.8	51.7	-4.3	46.2	9	36.6	1.5	M55.0	1.2	
BOYDS 2 NW	29.3		35.2		45.6		52.2		63.4		71.7		77.9		M76.6		65.3		51.8		47.2		36.4		M54.4		
CATOCTIN MOUNTAIN PARK	26.3		30.4		41.9		49.5		61.2		69.2		75.2		73.3		62.2		48.7		44.4		M31.4		M51.1		
CLARKSVILLE 3 NNE	27.4		35.1		43.9		51.4		62.8		71.4		78.2		76.9		M64.9		49.8		45.2		35.7		M53.6		
CONOWINGO DAM	25.4	-4.8	31.8	-5	42.4	1.3	49.6	-2.4	61.0	-1.0	71.1	5	77.2	2.1	76.7	2.7	64.3	-2.9	50.0	-5.3	45.1	1.0	33.7	-4	M52.4	-1.8	
DAMASCUS 2 SW	28.3		34.3		44.8		51.3		62.6		71.1		78.1		76.9		64.9		50.7		46.5		35.2		M53.7		
EMMITSBURG 2 SE	25.4		33.5		42.9		50.3		61.3		69.8		77.4		76.3		63.5		48.9		44.2		34.4		M52.3		
FREDRICK POLICE BRKS	M30.0		36.8		46.3		M55.4		65.3		75.0		81.6		79.6		67.6		52.9		48.4		37.4		M56.4		
MILLERS 4 NE					42.9		49.5		61.8		70.2		77.2		75.7		63.7		49.9		45.7		34.4		M		
ROCKVILLE 1 NE	M27.9	-5.4	34.6	-8	44.6	5	53.1	-1.8	64.4	5	72.2	7	79.2	3.5	78.0	3.6	66.3	-1.4	52.1	-4.7	M48.3	2.0	37.7	1.3	M54.9	-1.2	
TOWSON	28.0		33.3		43.8		51.6		62.4		73.1		79.4		78.1		66.6		51.7		46.3		37.0		M54.3		
UNIONVILLE	M25.3	-4.2	33.3	1.4	42.1	1.2	50.0	-1.5	61.4	5	M71.3	2.0	77.8	4.2	75.2	3.0	M61.8	-3.5	47.7	-6.1	44.1	9	32.1	-1.3	M51.8	-1.3	
WESTMINSTER POLICE BRK	26.7	-3.4	32.8	6	43.4	2.4	50.4	-1.8	62.2	7	71.9	2.0	78.8	4.6	76.8	3.8	64.8	-1.5	49.0	-5.9	45.3	1.0	34.4	4	M53.0	1.2	

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DELAWARE  
1988

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
WOODSTOCK	28.4	-3.0	35.0	1.5	44.2	1.9	52.0	-9	63.6	1.2	71.9	1.6	79.1	4.2	77.4	3.9	65.8	-1.0	50.8	-4.4	46.6	1.9	36.2	1.0	53.9	.0
--DIVISIONAL DATA----->	27.6	-4.0	34.5	.8	44.2	1.9	51.6	-1.6	63.0	.4	72.2	1.4	78.8	3.7	77.2	3.3	65.3	-2.1	50.8	-5.0	46.2	1.0	35.4	.1	53.9	.0
APPALACHIAN MOUNTAIN 07	26.9	-4.0	33.0	-2	43.8	1.7	52.6	-9	63.4	.6	69.7	-7	78.6	4.2	76.8	3.6	64.3	-2.3	49.0	-6.0	45.8	1.7	34.5	.2	53.2	-2
CUMBERLAND 2	21.9		27.5		37.2		46.6		57.0		64.3		72.5		71.5		58.8		44.5		41.1		29.4		47.7	
FROSTBURG 2	27.4	-3.2	33.9	1.0	44.4	2.3	52.2	-1.4	63.4	.3	71.7	.7	79.5	4.6	78.0	4.6	65.7	-1.1	50.8	-4.4	46.7	2.4	35.0	.8	52.3	.8
HAGERSTOWN	27.3	-1.9	34.2	3.1	43.4	3.4	51.0	-1.1	62.8	2.6	68.7	.2	76.4	3.5	75.2	3.5	62.4	-2.5	48.5	-4.4	43.6	.8	33.8	.9	52.3	.8
HANCOCK FRUIT LAB	25.9	-4.2	32.2	.0	42.2	1.2	50.6	-1.7	61.7	.1	68.6	-9	76.8	3.4	75.4	3.1	62.8	-2.9	47.3	-7.0	44.3	.7	33.2	-.5	51.8	-.6
--DIVISIONAL DATA----->	25.9	-4.2	32.2	.0	42.2	1.2	50.6	-1.7	61.7	.1	68.6	-9	76.8	3.4	75.4	3.1	62.8	-2.9	47.3	-7.0	44.3	.7	33.2	-.5	51.8	-.6
ALLEGHENY PLATEAU 08	21.7		26.8		37.3		46.7		57.9		64.1		72.0		71.7		58.9		43.2		40.7		28.0		47.4	
MC HENRY 2 NW	22.9	-3.3	28.4	.4	39.0	2.6	47.6	.4	56.9	.6	63.0	-.6	71.0	3.6	71.5	4.8	59.4	-1.1	44.3	-5.2	42.7	3.5	31.5	1.6	48.2	.6
OAKLAND 1 SE	22.2	-4.2	29.6	1.7	39.0	2.2	48.0	-.4	58.5	.7	65.0	-.4	72.1	2.6	73.1	4.5	60.5	-1.5	45.7	-5.1	41.4	1.1	31.1	.9	48.9	.2
SAVAGE RIVER DAM	22.3	-3.2	28.3	1.1	38.4	2.6	47.4	.2	57.8	1.2	64.0	.0	71.7	4.0	72.1	5.3	59.6	-1.0	44.4	-5.1	41.6	2.5	30.2	.8	48.2	.7
--DIVISIONAL DATA----->	22.3	-3.2	28.3	1.1	38.4	2.6	47.4	.2	57.8	1.2	64.0	.0	71.7	4.0	72.1	5.3	59.6	-1.0	44.4	-5.1	41.6	2.5	30.2	.8	48.2	.7
DELAWARE																										
NORTHERN 01	27.7	-4.0	34.7	1.0	43.9	1.8	49.6	-3.2	62.6	-.1	71.1	-.2	79.0	3.3	77.3	2.8	65.6	-2.3	50.8	-5.5	46.8	1.0	36.0	.4	53.8	-.4
NEWARK UNIVERSITY FARM	27.4	-3.8	34.8	1.6	44.2	2.4	50.8	-1.6	62.9	.7	71.6	.4	79.4	3.4	77.3	2.5	65.8	-2.1	51.0	-5.3	46.7	1.1	35.1	-.4	53.9	-.1
WILMINGTON WSO AP	27.9	-2.9	34.4	1.8	43.6	2.6	50.4	-1.4	63.1	1.5	71.8	1.4	79.6	4.7	77.7	4.0	65.7	-1.2	51.2	-4.5	47.1	1.9	35.0	-.1	54.0	.7
WILMINGTON PORTER RESVR	27.7	-3.9	34.9	1.4	43.9	1.9	50.3	-2.4	62.8	.4	71.5	.3	79.1	3.4	77.3	2.8	65.7	-2.1	51.0	-5.4	46.9	1.1	35.4	-.3	53.9	-.1
--DIVISIONAL DATA----->	27.7	-3.9	34.9	1.4	43.9	1.9	50.3	-2.4	62.8	.4	71.5	.3	79.1	3.4	77.3	2.8	65.7	-2.1	51.0	-5.4	46.9	1.1	35.4	-.3	53.9	-.1
SOUTHERN 02	31.6	-2.8	38.7	2.3	45.7	1.4	52.7	-2.0	64.4	.2	73.7	1.1	80.8	3.8	78.8	3.0	67.8	-1.8	52.9	-5.7	49.7	1.5	39.0	.6	56.3	.1
DOVER	30.4	-3.8	36.7	.9	44.8	1.3	51.0	-2.6	61.9	-.2	71.6	1.1	78.3	2.2	77.7	2.8	65.9	-2.5	52.2	-4.8	48.1	.9	36.5	-.1	54.6	-.7
GEORGETOWN 5 SW	30.6		37.9		45.8		51.5		63.4		72.7		79.0		79.6		67.8		52.3		49.1		37.3		55.6	
GREENWOOD 2 NE	32.4	-2.2	38.5	2.4	46.4	3.1	51.5	-1.6	62.5	.4	73.1	2.4	78.8	3.6	79.1	4.8	68.4	.0	54.5	-3.0	50.5	2.5	39.4	.9	56.3	1.1
LEWES	30.0	-4.3	38.3	2.5	45.9	1.6	51.5	-2.9	62.2	-.7	73.1	1.1	79.3	2.8	78.2	3.0	66.9	-1.9	53.2	-4.5	49.5	1.9	38.1	.2	55.5	-.2
MILFORD 4 SE	31.0	-3.5	38.0	1.9	45.7	1.8	51.6	-2.5	62.9	-.5	72.8	1.0	79.2	3.0	78.7	3.6	67.4	-1.3	53.0	-4.7	49.4	1.6	38.1	-.2	55.7	.0
--DIVISIONAL DATA----->	31.0	-3.5	38.0	1.9	45.7	1.8	51.6	-2.5	62.9	-.5	72.8	1.0	79.2	3.0	78.7	3.6	67.4	-1.3	53.0	-4.7	49.4	1.6	38.1	-.2	55.7	.0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# TEMPERATURE EXTREMES AND FREEZE DATA (°F)

MARYLAND AND  
DELAWARE  
1988

TEMPERATURE EXTREMES AND FREEZE DATA (F)																														1988				
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 ISLAND NATL SE			12	1/15	MSG		MSG		MSG		MSG		MSG		12/ 2	32	12/ 6	28	12/10	24	12/12	11	12/12	11	12/12	11	12/12	14	309	309	264	263	258	
CRISFIELD SOMERS COVE	100	6/23	0	1/12	3/22	16	3/22	16	3/23	24	3/23	24	5/ 3	30	10/ 8	32	10/14	26	12/ 6	22	12/10	18	12/12	11	12/12	11	1265	263	258	205	158			
PRINCESS ANNE	97	7/16	6	1/10	2/ 7	10	3/22	20	3/22	20	3/23	28	3/23	28	10/14	30	12/ 5	28	12/10	22	12/12	11	12/12	11	12/12	11	11309	265	263	257	205			
SALISBURY	99	6/23	4	1/12	3/22	16	3/22	16	3/23	24	3/23	24	3/23	24	10/ 9	32	11/25	28	12/ 6	23	12/10	19	12/12	12	12/12	12	2265	263	258	242	200			
SALISBURY FAA AP	100	6/23	6	1/12	3/22	16	3/22	16	3/23	24	3/23	24	5/ 3	32	10/ 9	30	10/14	27	12/ 6	23	12/10	20	12/12	12	12/12	12	2265	263	258	205	159			
SNOW HILL 4 N																																		
CENTRAL EASTERN SHORE 02																																		
CAMBRIDGE WTR TRMT PL	102	6/23	5	1/16	2/ 7	12	3/22	20	3/22	20	3/23	28	3/23	28	10/14	29	10/27	28	12/12	12	12/12	12	12/12	12	12/12	12	1209	265	265	218	205			
DENTON 2 E	104	7/10	-3	1/11	3/22	16	3/22	16	3/22	16	3/22	16	3/29	32	10/ 9	30	10/14	27	10/31	24	12/12	10	12/12	10	12/12	10	10265	265	223	206	194			
ROYAL OAK 2 SSW	97	7/17	5	1/15	2/ 7	13	2/22	19	3/22	21	3/22	21	3/23	29	10/14	32	12/10	27	12/12	12	12/12	12	12/12	12	12/12	12	12309	294	265	263	205			
VIENNA			3	1/12	2/ 8	10	2/15	19	2/26	24	3/22	25	3/23	30	10/ 8	31	10/14	28	12/10	21	12/12	10	12/12	10	12/12	10	10308	301	288	206	199			
LOWER SOUTHERN 03																																		
LA PLATA 1 W	99	7/16	3	1/11	2/14	13	3/22	19	3/22	19	4/20	28	4/20	28	10/14	28	10/14	28	12/10	22	12/12	12	12/12	12	12/12	12	12302	265	263	177	177			
MECHANICSVILLE 1 E	101	7/16	-1	1/11	2/22	16	3/22	17	3/22	17	3/28	28	4/20	29	10/ 9	31	10/27	26	12/ 6	23	12/10	18	12/12	11	12/12	11	11294	263	259	213	172			
OWINGS FERRY LANDING	100	8/17	-1	1/11	2/22	14	3/22	18	3/22	18	3/23	26	4/20	29	10/ 9	32	10/14	28	12/ 6	23	12/12	11	12/12	11	12/12	11	11294	265	259	205	172			
PAUXENT RIVER	99	7/17	9	1/12	2/ 7	11	2/22	18	3/22	23	3/22	23	3/23	31	11/23	32	12/ 9	28	12/11	23	12/12	13	12/12	13	12/12	13	13309	294	264	262	245			
UPPER SOUTHERN 04																																		
ANNAPOLIS POLICE BRKS	102	8/15	4	1/16	2/22	12	2/22	12	3/23	21	3/23	21	3/23	21	10/13	32	10/27	28	11/23	23	12/11	20	12/12	8	294	293	245	218	204					
BALTIMORE WSD AP	104	7/16	3	1/11	2/ 7	9	2/22	17	3/22	23	3/23	27	4/20	32	10/13	32	10/31	27	12/ 9	24	12/10	19	12/12	10	10309	292	262	222	176					
BELTSVILLE	103	7/17	-3	1/11	2/22	15	3/22	17	3/23	24	3/28	28	4/17	32	10/ 9	31	10/14	27	11/12	22	12/12	10	12/12	10	12/12	10	10294	265	234	200	175			
COLLEGE PARK	104	8/16	2	1/11	2/22	16	3/22	18	3/22	18	3/23	26	4/14	32	10/14	30	10/27	27	12/10	24	12/12	10	12/12	10	12/12	10	10294	265	263	218	183			
DALECARLIA RESVR D C	103	7/17	0	1/12	3/23	13	3/23	13	3/23	13	3/23	13	4/20	29	10/ 8	32	10/14	25	10/27	23	12/10	16	12/10	16	12/10	16	16262	262	218	205	171			
GLENN DALE BELL STN					3/22	12	3/22	12	3/23	21	4/20	27	4/26	31	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG			
LAUREL 3 W	104	7/16	1	12/13	2/ 7	5	2/28	19	3/22	21	3/22	21	4/14	32	10/14	31	10/31	26	12/10	20	12/10	20	12/10	20	12/11	13	308	286	263	223	183			
NATIONAL ARBORETUM D C	103	8/18	2	1/12	2/14	16	3/22	19	3/22	19	3/23	26	4/15	32	10/ 7	30	10/14	24	10/14	24	12/11	20	12/12	6	302	264	206	205	175					
UPPER MARLBORO 3 NNW	102	8/18	-4	1/11	3/22	16	3/22	16	3/23	23	3/23	23	4/20	30	10/ 7	32	10/14	26	10/27	24	12/10	18	12/12	9	265	263	218	205	170					
NORTHERN EASTERN SHORE 05																																		
CHESTERTOWN	101	7/16	-1	1/11	2/ 7	10	2/22	18	3/22	21	3/23	26	3/23	26	10/14	31	10/31	27	12/11	20	12/11	20	12/12	10	10309	293	264	222	205					
MILLINGTON 1 SE	99	7/10	-4	1/11	2/22	16	3/22	17	3/23	24	3/23	24	4/17	32	10/ 9	30	10/14	28	10/31	24	12/12	10	12/12	10	12/12	10	10294	265	222	205	175			
NORTHERN CENTRAL 06																																		
ABERDEEN PHILLIPS FLD	100	8/16			MSG		2/22	17	3/22	22	3/23	28	4/19	32	10/14	31	10/27	28	MSG		MSG		MSG											
BALTIMORE WSD CI	105	8/15	8	2/ 7	2/ 7	8	2/22	20	3/21	24	3/22	25	3/22	25	12/ 2	32	12/10	24	12/10	24	12/11	19	12/12	11	12/12	11	11309	293	264	263	255			
BENSON POLICE BARRACKS	102	7/11	-2	1/15	2/22	14	3/22	18	3/23	24	3/23	24	4/20	32	10/ 9	31	10/27	25	10/31	24	12/12	7	12/12	7	12/12	7	7294	265	222	218	172			
BOYDS 2 NW	100	7/16	4	2/ 7	2/22	15	3/22	20	3/22	20	3/22	20	4/19	32	10/14	29	11/23	27	12/10	18	12/12	18	12/12	18	12/12	18	6294	263	263	246	178			
CATOCTIN MOUNTAIN PARK	96	7/ 7	-1	12/12	3/22	16	3/22	16	3/22	16	3/23	27	4/22	31	10/13	30	10/31	26	11/25	24	12/10	16	12/10	16	12/10	16	16263	263	248	221	174			
CLARKSVILLE 3 NNE	103	7/17	-9	1/11	3/22	11	3/23	20	3/23	20	4/17	27	4/26	30	10/ 6	32	10/ 9	28	10/14	23	11/23	20	12/12	7	12/12	7	7265	245	205	175	163			
CONOWINGO DAM	109	6/21	-5	1/11	3/22	15	3/22	15	3/23	21	4/17	28	4/29	32	10/ 9	29	10/13	27	10/14	23	12/10	18	12/11	16	12/11	16	16264	263	205	179	163			
DAMASCUS 2 SW	101	7/16	3	2/ 7	2/14	14	3/22	20	3/22	20	3/22	20	4/19	32	10/13	31	10/31	28	12/10	18	12/10	18	12/12	5	302	263	263	223	177					
EMMITSBURG 2 SE	101	8/17	-8	1/11	3/22	15	3/22	15	3/23	21	4/22	27	4/26	30	10/ 6	31	10/ 9	26	10/14	23	10/27	20	12/12	13	265	219	205	170	163					
FREDRICK POLICE BRKS	104	7/17	6	2/ 7	2/14	15	3/22	20	3/22	20	3/23	27	3/23	27	10/14	31	10/27	28	12/10	23	12/12	8	12/12	8	12/12	8	8302	265	263	218	205			
MILLERS 4 NE	99	7/16			MSG		3/22	17	3/22	17	3/23	26	4/20	32	10/14	30	10/27	27	10/31	24	12/10	18	12/12	4		263	223	218	177					
ROCKVILLE 1 NE	99	7/16	1	1/11	2/13	16	3/22	19	3/22	19	3/22	19	3/23	30	10/27	30	12/10	25	12/11	21	12/12	11	12/12	11	12/12	11	11303	265	264	263	218			
TOWSON	100	7/16	4	1/16	2/22	15	3/23	18	3/23	18	3/23	18	4/17	31	10/13	32	10/27	27	12/11	20	12/11	20	12/12	10	12/12	10	6294	263	263	232	181			
UNIONVILLE	103	7/17	-10	1/11	3/22	11	3/22	11	3/23	21	4/22	28	4/29	32	10/ 6	32	10/ 8	27	10/14	22	11/23	20	12/11	15	264	246	205	169	160					
WESTMINSTER POLICE BRK	103	7/16	2	2/ 7	2/26	16	3/22	18	3/22	18	4/14	26	4/20	31	10/ 6	31	10/12	28	10/31	24	12/10	16	12/10	16	12/10	16	16288	263	223	181	169			
WOODSTOCK	102	7/16			MSG		MSG		MSG		MSG		MSG		4/22	32	10/ 7	32	10/14	26	10/27	24	12/10	18	12/12	7					168			



# TEMPERATURE EXTREMES AND FREEZE DATA (°F)

MARYLAND AND  
DELAWARE  
1988

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.					
APPALACHIAN MOUNTAIN 07		104	7/16	2	1/11	2/21	15	3/21	17	3/22	21	3/23	27	4/19	30	10/ 8	32	10/13	25	10/30	24	12/10	18	12/11	6	294	264	222	204	172
CUMBERLAND 2		96	7/17	-4	2/ 7	3/23	13	3/23	13	3/23	13	4/17	26	4/23	32	10/ 9	32	10/13	27	10/27	24	12/10	15	12/10	15	262	262	218	179	169
FROSTBURG 2		104	7/16	0	1/15	2/14	13	3/22	18	3/22	18	3/22	18	3/28	30	MSG		MSG		12/11	19	12/11	19	12/13	7	303	264	264		
HAGERSTOWN		102	8/18	-6	1/11	3/22	11	3/22	11	3/23	24	4/20	25	5/ 1	30	10/ 6	32	10/14	24	10/14	24	10/31	20	12/12	4	265	223	205	177	158
HANCOCK FRUIT LAB																														
ALLEGHENY PLATEAU 08																														
MC HENRY 2 NW		94	7/17	-8	2/ 6	3/22	12	3/23	18	4/17	23	4/20	28	4/30	32	10/ 7	32	10/13	24	10/13	24	12/ 4	19	12/10	11	263	256	179	176	160
OAKLAND 1 SE		97	8/17	-16	1/11	3/21	15	3/21	15	4/11	23	5/ 1	27	5/26	32	10/ 6	29	10/ 7	27	10/13	23	10/27	17	12/10	13	264	220	185	159	133
SAVAGE RIVER DAM		98	7/ 9	-3	1/12	3/23	15	3/23	15	3/23	15	4/20	28	4/26	30	10/ 8	31	10/14	25	10/27	23	12/10	18	12/11	13	263	262	218	177	165
DELAWARE																														
NORTHERN 01																														
NEWARK UNIVERSITY FARM		101	7/16	0	1/11	2/22	13	3/22	17	3/22	17	4/20	26	4/20	26	10/ 9	29	10/14	28	12/ 2	24	12/10	18	12/12	7	294	263	255	177	172
WILMINGTON WSO AP		100	7/17	3	1/11	2/ 7	8	3/22	19	3/22	19	3/22	19	3/23	30	10/14	30	10/31	27	12/ 9	23	12/10	19	12/11	16	308	263	262	223	205
WILMGTN PORTER RESVR		100	7/17	7	12/12	2/ 7	8	3/22	19	3/22	19	3/22	19	3/23	29	10/27	30	10/31	28	12/10	21	12/11	15	12/11	15	308	264	263	223	218
SOUTHERN 02																														
DOVER		101	7/17	1	1/11	2/14	16	3/22	19	3/22	19	3/23	28	3/23	28	10/14	29	10/27	27	12/10	19	12/10	19	12/12	8	302	263	263	218	205
GEORGETOWN 5 SW		100	6/23	-2	1/12	3/22	16	3/22	16	3/23	24	3/23	24	4/17	31	10/ 8	30	10/14	26	10/31	24	12/11	19	12/12	10	265	264	222	205	174
GREENWOOD 2 NE		101	6/22	0	1/11	2/ 7	9	3/22	19	3/22	19	3/23	26	3/28	31	10/ 9	31	10/14	28	12/ 6	23	12/10	19	12/12	10	309	263	259	205	195
LEWES		99	6/22	9	1/16	2/ 7	11	2/22	20	2/22	20	3/22	28	3/23	30	10/27	30	12/ 6	26	12/10	23	12/12	13	12/12	13	309	294	292	259	218
MILFORD 4 SE		100	8/11	0	1/12	2/22	16	3/22	19	3/22	19	3/23	27	4/19	32	10/ 9	32	10/27	28	12/10	20	12/10	20	12/12	11	294	263	263	218	173

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL COOLING DEGREE DAYS  
BASE=65 DEGREES FAHRENHEIT

MARYLAND AND  
DELAWARE  
1988

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
MARYLAND														
SOUTHERN EASTERN SHORE 01														
ASSATEAGUE ISLAND NATL SE	B	0	0	-	B	0	34	210	B	259	-	4	B	0
CRISFIELD SOMERS COVE		0	0	0	0	0	70	302		461	B	142		0
PRINCESS ANNE		0	0	B	0	0	68	263	B	420		96		0
SALISBURY		0	0	0	1	83	291	433		432		127	10	0
SALISBURY FAA AP		0	0	0	0	75	253	433		415		88	6	0
SNOW HILL 4 N		0	0	0	0	79	280	414		414		120	7	0
CENTRAL EASTERN SHORE 02														
CAMBRIDGE WTR TRMT PL		0	0	0	2	81	337	504		472		159	15	0
DENTON 2 E		0	0	B	2	80	300	501		440		118	10	0
ROYAL OAK 2 SSH		0	0	0	1	78	289	481		459		128	15	0
VIENNA		0	0	0	B	0	112	318	B	468		111	B	12
LOWER SOUTHERN 03														
LA PLATA 1 W		0	0	4	5	66	225	391		391		88	10	0
MECHANICSVILLE 1 E		0	0	2	5	70	244	428		400		69	7	0
OWINGS FERRY LANDING		0	0	2	5	78	268	453		428		109	12	0
PATUXENT RIVER		0	0	0	B	0	60	252		437		419	8	0
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	R	0	0	0	1	68	313	447		443	B	107	11	0
BALTIMORE WSO AP		0	0	2	4	71	274	485		427		100	8	0
BELTSVILLE		0	0	3	0	58	251	451		396		73	7	0
COLLEGE PARK		0	0	B	4	93	322	492		474		118	11	0
DALECARLIA RESVR D C		0	0	B	4	79	262	B	444	436		105	9	0
GLENN DALE BELL STN		0	1	3	3	47	241		412	386		-	6	0
LAUREL 3 W	B	0	0	B	2	80	B	294		487	B	113	4	0
NATIONAL ARBORETUM D C		0	0	3	0	70	284	473		411		60	4	0
UPPER MARLBORO 3 NNW		0	0	3	0	61	249	434		402		64	5	0
NORTHERN EASTERN SHORE 05														
CHESTERTOWN		0	B	0	0	3	83	289		487		441	B	118
MILLINGTON 1 SE		0	0	0	3	62	236	422		384	B	89	5	0
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FLD	R	0	B	0	B	1	B	52		266	B	455		400
BALTIMORE WSO CI		0	0	1	5	129	401	598		551		182	B	15
BENSON POLICE BARRACKS		0	0	0	1	83	308	460		413		93	4	0
BOYDS 2 NW		0	0	0	4	61	245	412	B	365		70	4	0
CATOCTIN MOUNTAIN PARK		0	0	0	0	45	188	333		269		30	0	0
CLARKSVILLE 3 NNE		0	0	0	4	51	236	425		374	B	71	3	0
CONOWINGO DAM		0	0	0	0	34	221	386		367		53	6	0
DAMASCUS 2 SW		0	0	0	4	56	236	421		378		64	5	0
EMMITTSBURG 2 SE		0	0	0	3	31	199	399		358		50	1	0
FREDRICK POLICE BRKS	B	0	0	1	B	7	95	328		519		461	117	8
MILLERS 4 NE		0	0	0	0	45	212	392		341		42	6	0
ROCKVILLE 1 NE	B	0	0	2	3	78	254	452		407		86	9	0
TOWSON		0	0	0	6	56	277	455		409		95	6	0
UNIONVILLE	B	0	0	0	2	32	B	221		410		323	B	25
WESTMINSTER POLICE BRK		0	0	0	1	47	250	443		371		53	4	0
WOODSTOCK		0	0	3	62	244	452	393		81		7	0	0
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2		0	0	0	1	63	190	431		377		55	7	0
FROSTBURG 2		0	0	0	0	15	100	261		229		3	1	0
HAGERSTOWN		0	0	B	0	3	57	246		407		68	-	0
HANCOCK FRUIT LAB		0	0	B	0	1	51	171		327		27	2	0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL COOLING DEGREE DAYS  
BASE=65 DEGREES FAHRENHEIT

MARYLAND AND  
DELAWARE  
1988

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
ALLEGHENY PLATEAU 08														
MC HENRY 2 NW	B 0	B 0	0	0	24	99	248	228	8	2	0	0	B 609	
OAKLAND 1 SE	B 0	0	0	0	5	76	219	225	10	0	0	0	B 535	276
SAVAGE RIVER DAM	0	0	B 1	0	21	101	248	266	B 10	0	0	0	B 647	417
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM		0	0	0	54	232	447	389	72	6	0	0	1200	1003
WILMINGTON WSO AP	R 0	0	0	0	62	242	455	389	80	5	0	0	1233	1015
WILMGTON PORTER RESVR	0	0	0	2	65	246	463	403	78	7	0	0	1264	901
SOUTHERN 02														
DOVER	0	0	0	2	92	286	498	436	114	10	0	0	1438	1179
GEORGETOWN 5 SW	B 0	0	1	0	59	254	B 420	403	79	10	0	0	B 1226	1050
GREENWOOD 2 NE	0	0	0	2	67	272	444	459	B 120	9	0	0	B 1373	
LEWES	0	0	0	1	64	272	434	442	130	13	0	B 0	B 1356	946
MILFORD 4 SE	0	0	1	0	58	284	449	416	101	11	0	0	1320	1101

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# TOTAL EVAPORATION AND WIND MOVEMENT

MARYLAND AND  
DELAWARE  
1988

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MARYLAND														
UPPER SOUTHERN 04 BELTSVILLE	WIND	-	-	-	B 2236	1171	1131	868	603	771	1558	-	-	-
	EVAP	-	-	-	B 4.79	6.04	8.03	8.12	6.62	B 4.31	3.53	-	-	-
	MAX TEMP	-	-	-	M 68.0	80.2	89.0	M 95.0	M 93.4	82.0	65.0	-	-	M -
	MIN TEMP	-	-	-	M 43.8	56.7	62.8	M 70.6	M 70.8	59.0	43.7	-	-	M -
UPPER MARLBORO 3 NNW	WIND	-	-	-	600	-	-	-	-	-	-	-	-	-
	EVAP	-	-	-	B 4.37	B 5.68	6.74	6.87	6.30	4.02	3.08	B 2.09	-	-
	MAX TEMP	-	-	-	66.8	77.8	-	84.2	86.3	77.5	63.1	53.7	-	M -
	MIN TEMP	-	-	-	44.6	57.5	-	70.8	70.4	57.4	44.6	M 39.7	-	M -
ALLEGHENY PLATEAU 08														
SAVAGE RIVER DAM	WIND	-	-	-	B 1198	524	710	B 489	435	-	-	-	-	-
	EVAP	-	-	-	B 4.55	B 5.86	5.92	6.19	B 6.81	B 3.77	-	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
DELAWARE														
NORTHERN 01 NEWARK UNIVERSITY FARM	WIND	-	-	-	1931	1116	1055	774	662	607	944	-	-	-
	EVAP	-	-	-	B 4.22	B 5.58	7.82	7.64	B 5.88	3.92	B 2.81	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTHERN 02 GEORGETOWN 5 SW	WIND	-	-	-	B 3295	1942	2392	2174	1936	1617	2078	-	-	-
	EVAP	-	-	-	B 5.39	5.63	B 8.96	8.57	7.45	B 4.96	3.59	-	-	-
	MAX TEMP	-	-	-	64.9	78.1	87.0	91.5	91.3	81.9	67.3	-	-	M -
	MIN TEMP	-	-	-	43.9	55.2	62.9	71.0	70.9	58.9	44.5	-	-	M -

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

MARYLAND AND  
DELAWARE  
1988

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	00115	06	HARFORD	39 28	76 10W	57	63	63	0			C H
ANNAPOLIS POLICE BRKS	01933	04	ANNE ARUNDEL	38 59	76 30W	25	30	30	0			C H
ASSATEAGUE ISLAND NATL SE	03335	01	WORCESTER	38 14	75 8W	7	21	21	0			C H
BALTIMORE WSO AP	04665	04	ANNE ARUNDEL	39 11	76 40W	196	54	54	0			C H
BALTIMORE WSO CI #	04700	06	BALTO CITY	39 17	76 37W	91	118	118	0			C H
BELTSVILLE	07000	04	PRN GEORGES	39 2	76 53W	120	51	51	4			C H
BENSON POLICE BARRACKS	0732	06	HARFORD	39 30	76 23W	365	41	41	0			C H
BOYDS 2 NW	1032	06	MONTGOMERY	39 13	77 20W	580	36	36	0			C H
BRIGHTON DAM	1125	06	MONTGOMERY	39 12	77 1W	330	0	43	0			
CAMBRIDGE WTR TRMT PL	1385	02	DORCHESTER	38 34	76 4W	5	94	94	0			C H
CATOCTIN MOUNTAIN PARK	1530	06	FREDERICK	39 39	77 29W	1610	22	22	0			C H
CHESTERTOWN	1750	05	KENT	39 13	76 4W	40	83	83	0			C H
CLARKSVILLE 3 NNE	1862	06	HOWARD	39 15	76 56W	365	22	22	0			C H
COLLEGE PARK	1995	04	PRN GEORGES	38 59	76 57W	90	102	102	0			C H
CONOWINGO DAM	2060	06	HARFORD	39 39	76 10W	40	53	53	0			
CRISFIELD SOMERS COVE	2215	01	SOMERSET	37 59	75 52W	8	26	26	0			
CUMBERLAND 2	2282	07	ALLEGANY	39 38	78 45W	730	16	16	0			H
DALECARLIA RESVR D C	2325	04		38 56	77 7W	146	43	43	0			
DAMASCUS 2 SW	2335	06	MONTGOMERY	39 16	77 14W	720	16	16	0			H
DENTON 2 E	2523	02	CAROLINE	38 53	75 48W	50	38	38	0			H
EDGE MONT	2770	07	WASHINGTON	39 40	77 33W	905	0	50	0			
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 18W	416	33	33	0			H
FREDRICK POLICE BRKS	3348	06	FREDERICK	39 25	77 26W	380	16	16	0			H
FREDERICK 3 E	3355	06	FREDERICK	39 24	77 22W	385	0	40	0			H
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2170	17	17	0			H
GLENN DALE BELL STN	3675	04	PRN GEORGES	38 58	76 48W	150	68	68	0			H
HAGERSTOWN	3975	07	WASHINGTON	39 39	77 44W	660	47	47	0			C H
HANCOCK FRUIT LAB	4030	07	WASHINGTON	39 42	78 11W	428	55	55	0			C H
LA PLATA 1 W	5080	03	CHARLES	38 32	77 0W	140	74	74	0			C H
LAUREL 3 W	5111	04	PRN GEORGES	39 6	76 54W	400	98	98	0			C H
MC HENRY 2 NW	5832	08	GARRETT	39 35	79 22W	2680	18	18	0			C H
MECHANICSVILLE 1 E	5865	03	ST MARYS	38 27	76 41W	100	27	27	0			C H
MERRILL	5894	08	GARRETT	39 36	79 5W	1790	0	37	0			C H
MILLERS 4 NE	5934	06	CARROLL	39 43	76 48W	860	1	1	0	MAR		C H
MILLINGTON 1 SE	5985	05	KENT	39 16	75 52W	30	92	92	0			
NATIONAL ARBORETUM D C	6350	04		38 54	76 59W	50	42	42	0			H
OAKLAND 1 SE	6620	08	GARRETT	39 24	79 24W	2420	91	91	0			C H
OWINGS FERRY LANDING	6770	03	CALVERT	38 41	76 40W	160	72	72	0			C H
PATUXENT RIVER	6915	03	ST MARY'S	38 20	76 25W	38	13	13	0			C H
POTOMAC FILTER PLANT	7272	06	MONTGOMERY	39 2	77 15W	270	0	27	0			
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	40	40	0			
ROCKVILLE 1 NE	7705	06	MONTGOMERY	39 6	77 6W	440	41	41	0			H
ROYAL OAK 2 SSW	7806	02	TALBOT	38 43	76 11W	10	41	41	0			H
SALISBURY	8000	01	WICOMICO	38 22	75 35W	10	82	82	0			
SALISBURY FAA AP #	8005	01	WICOMICO	38 20	75 31W	48	41	41	0			C H
SAVAGE RIVER DAM	8065	08	GARRETT	39 31	79 8W	1495	38	41	3			C H
SNOW HILL 4 N	8380	01	WORCESTER	38 14	75 23W	28	73	73	0			C H
TOWSON	8877	06	BALTIMORE	39 23	76 34W	390	51	76	0			
UNIONVILLE	9030	06	FREDERICK	39 27	77 11W	430	49	47	0			C H
UPPER MARLBORO 3 NNW	9070	04	PRN GEORGES	38 52	76 47W	98	33	33	3			H
VIENNA	9140	02	DORCHESTER	38 29	75 50W	12	40	40	0			H
WESTMINSTER POLICE BRK	9440	06	CARROLL	39 33	76 58W	765	10	10	0			H
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52W	460	119	119	0			H

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

MARYLAND AND  
DELAWARE  
1988

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	
DELAWARE												
DOVER	2730	02	KENT	39 9	75 31 W	30	101	100	0			
GEORGETOWN 5 SW	3570	02	SUSSEX	38 38	75 27 W	45	43	43	35			C H
GREENWOOD 2 NE	3595	02	SUSSEX	38 50	75 35 W	45	4	44	00	JAN		H
LEWES	5320	02	SUSSEX	38 46	75 8 W	15	45	45	00			
MIDDLETOWN 3 E	5852	01	NEW CASTLE	39 27	75 40 W	55	37	37	00			
MILFORD 4 SE	5915	02	SUSSEX	38 54	75 28 W	30	93	93	00			H
NEWARK UNIVERSITY FARM	6410	01	NEW CASTLE	39 40	75 44 W	90	76	76	32			C H
WILMINGTON WSO AP	9595	01	NEW CASTLE	39 40	75 36 W	79	41	41	00			C H J
WILMINGTON PORTER RESVR	9605	01	NEW CASTLE	39 46	75 32 W	274	77	77	0			H

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# REFERENCE NOTES

MARYLAND AND  
DELAWARE  
1988

## 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:

NATIONAL CLIMATIC DATA CENTER  
FEDERAL BUILDING  
ASHEVILLE, N. C. 28801-2696

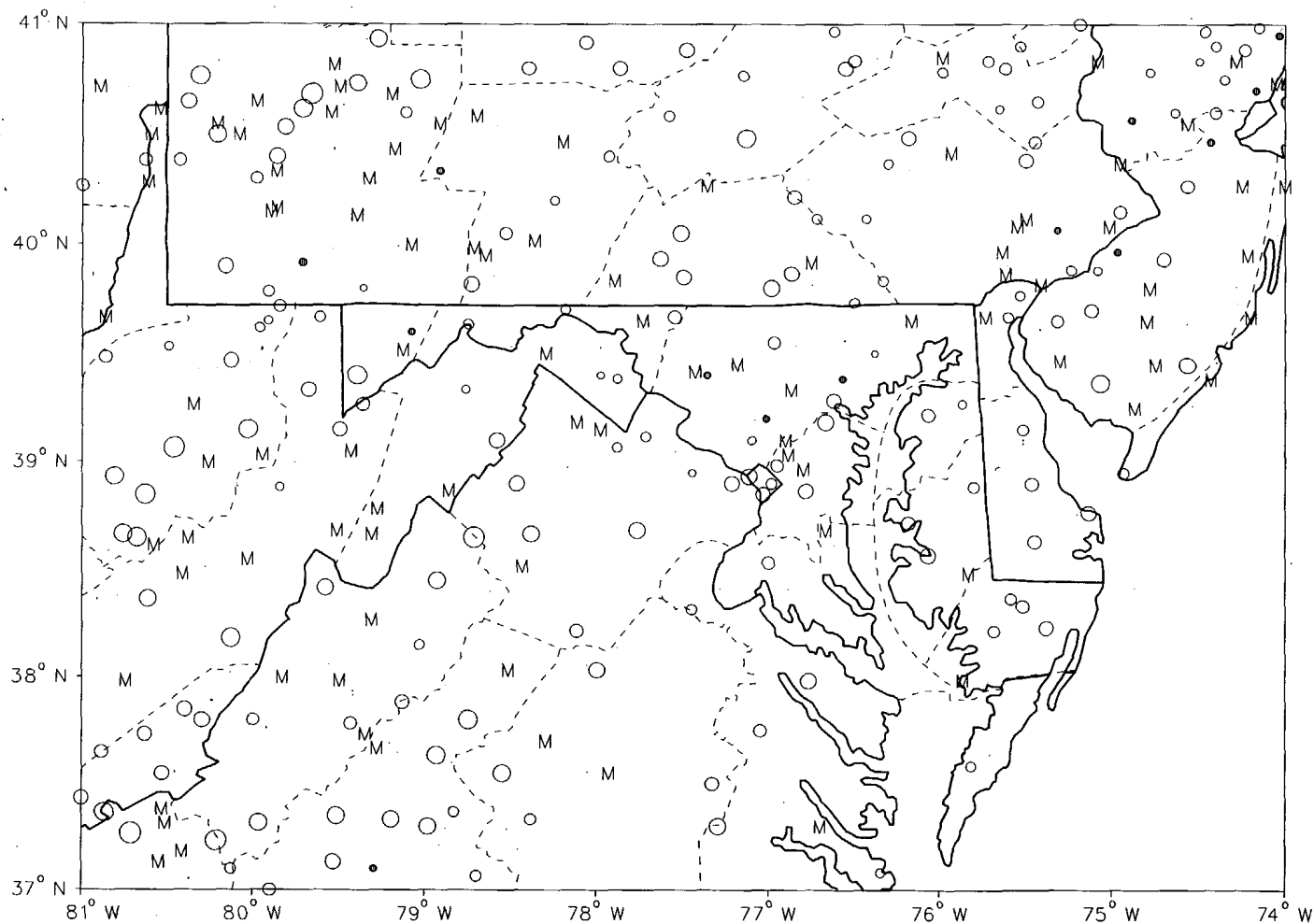
# CUMULATIVE ANNUAL PRECIPITATION DEPARTURE FROM INDIVIDUAL STATION NORMALS (1951-1980) FOR 1988 DELAWARE

M INCOMPLETE DATA FOR THE PERIOD

▽ EXACTLY NORMAL

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

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



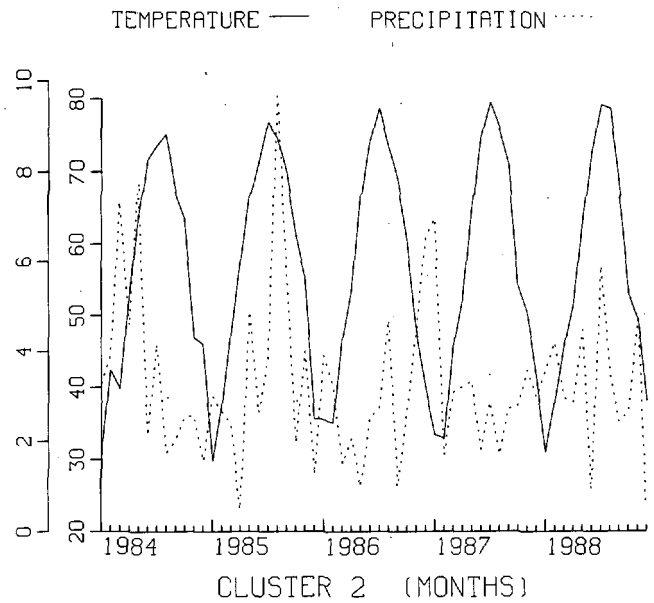
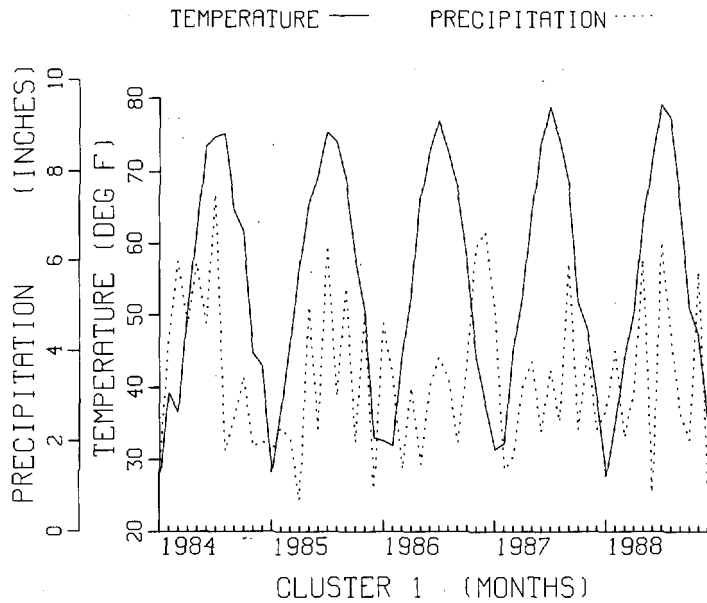
CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE



MONTHLY TEMPERATURE AND PRECIPITATION FOR  
THE LAST 60 MONTHS  
ENDING DECEMBER 1988  
DELAWARE

CLUSTER 1 -DIVISION(S):  
NORTHERN 01

CLUSTER 2 -DIVISION(S):  
SOUTHERN 02



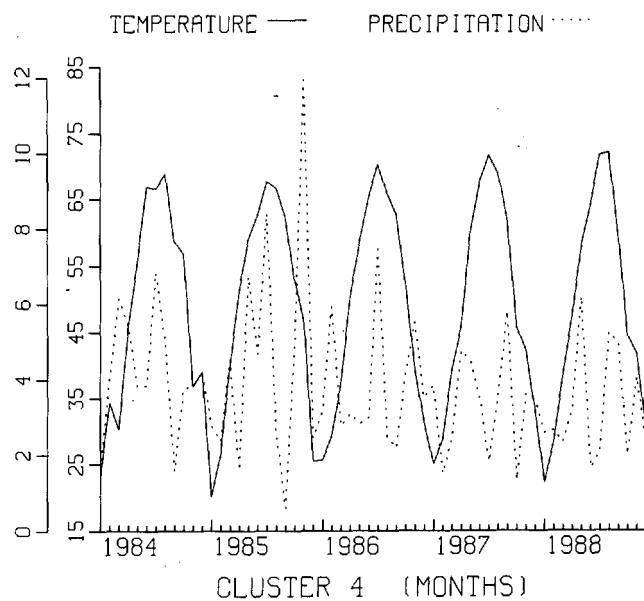
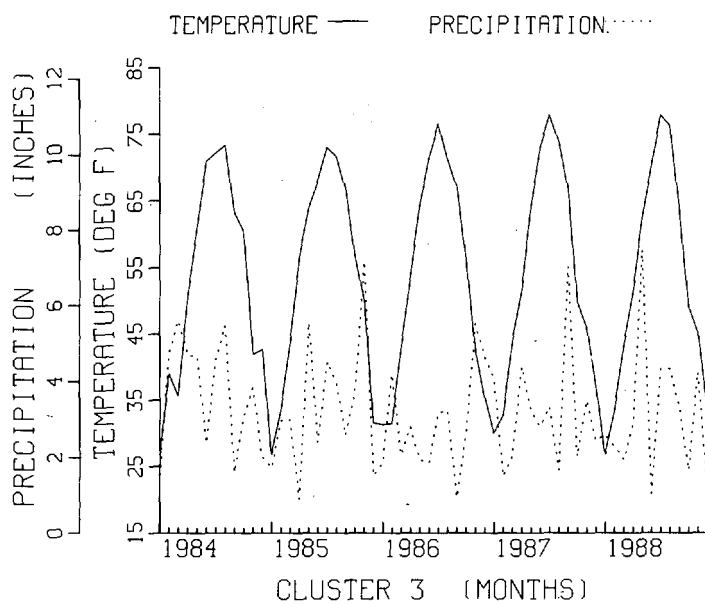
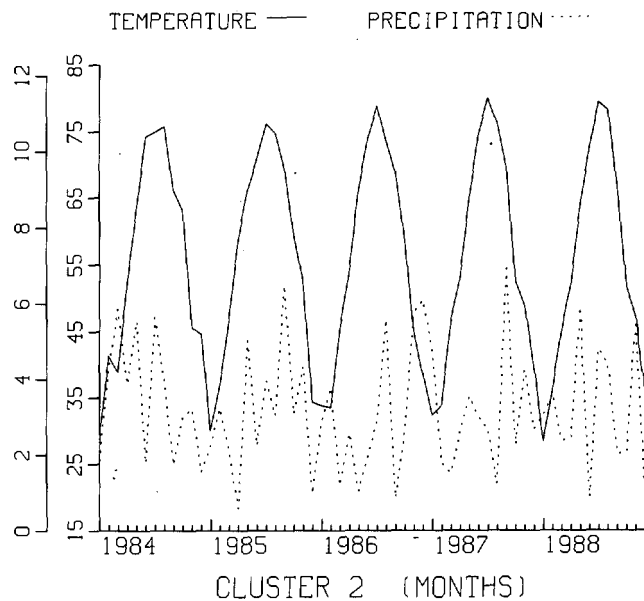
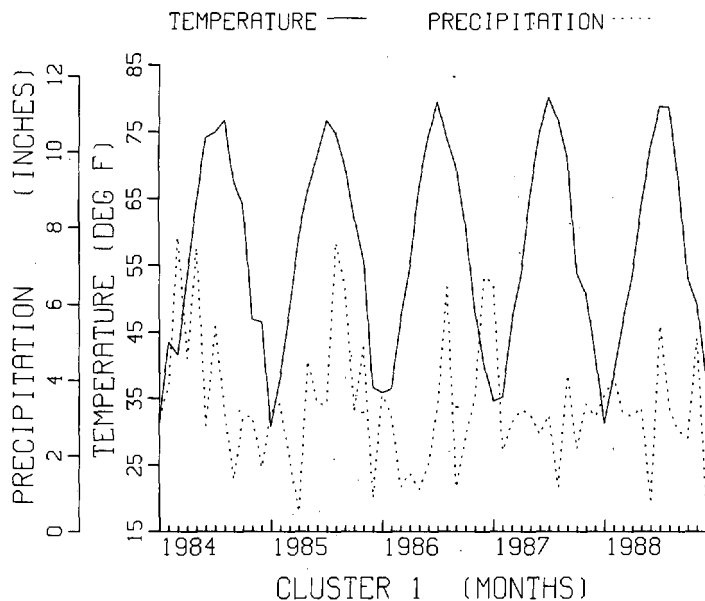
# MONTHLY TEMPERATURE AND PRECIPITATION FOR THE LAST 60 MONTHS ENDING DECEMBER 1988 MARYLAND

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

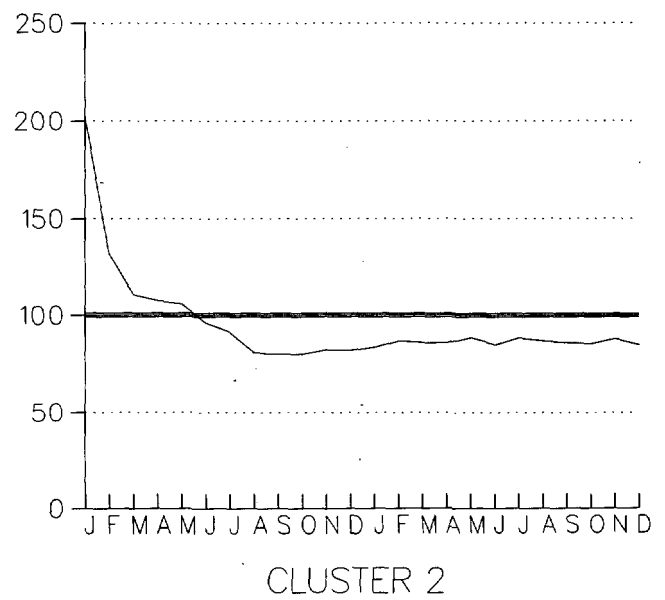
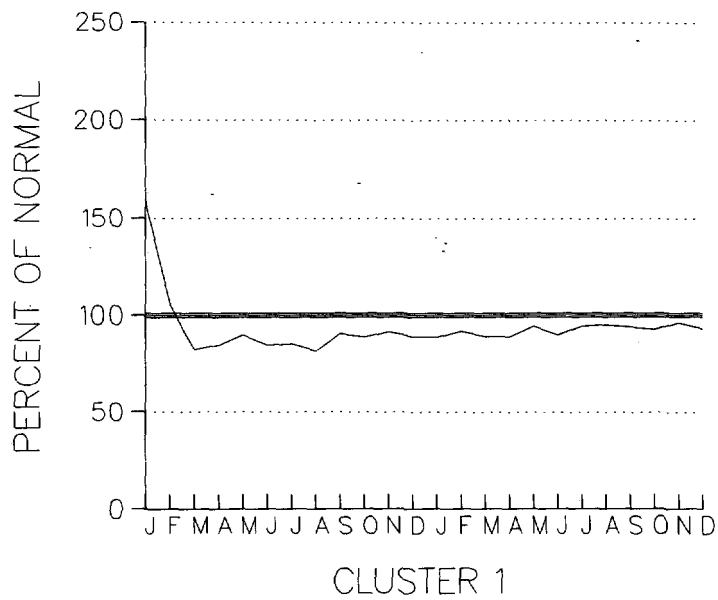
CLUSTER 4 -DIVISION(S):  
ALLEGHENY PLATEAU 08



CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
FOR THE LAST 24 MONTHS  
ENDING DECEMBER 1988  
DELAWARE

CLUSTER 1 - DIVISION(S):  
NORTHERN 01

CLUSTER 2 - DIVISION(S):  
SOUTHERN 02



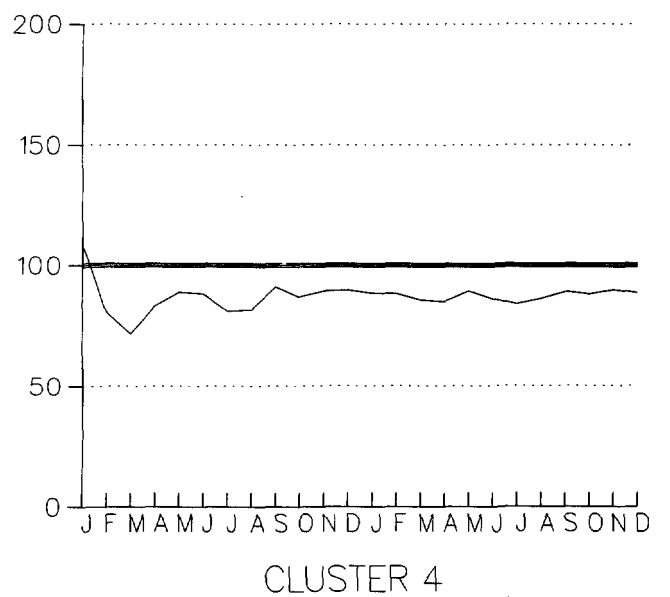
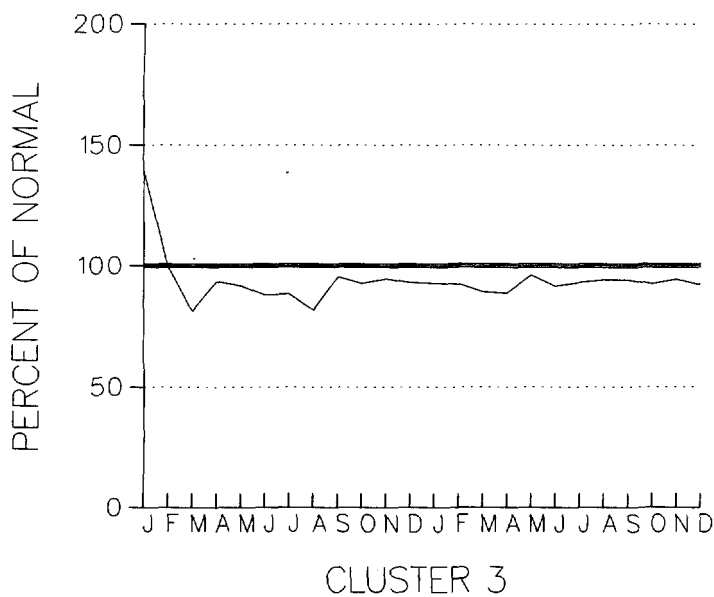
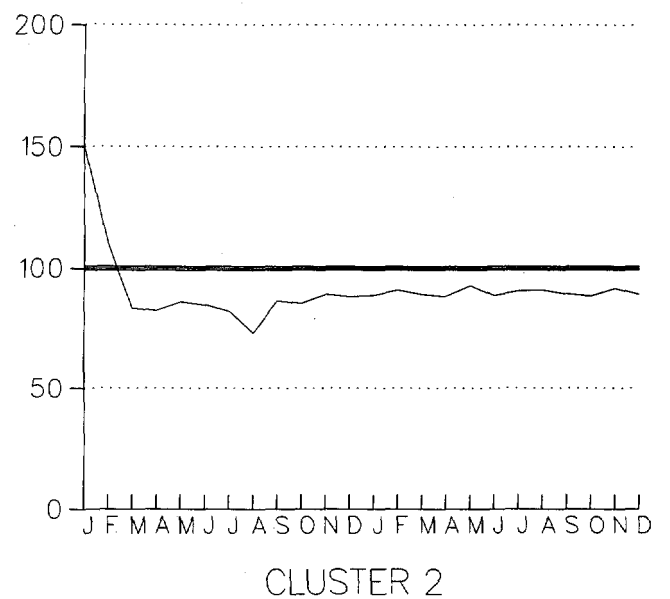
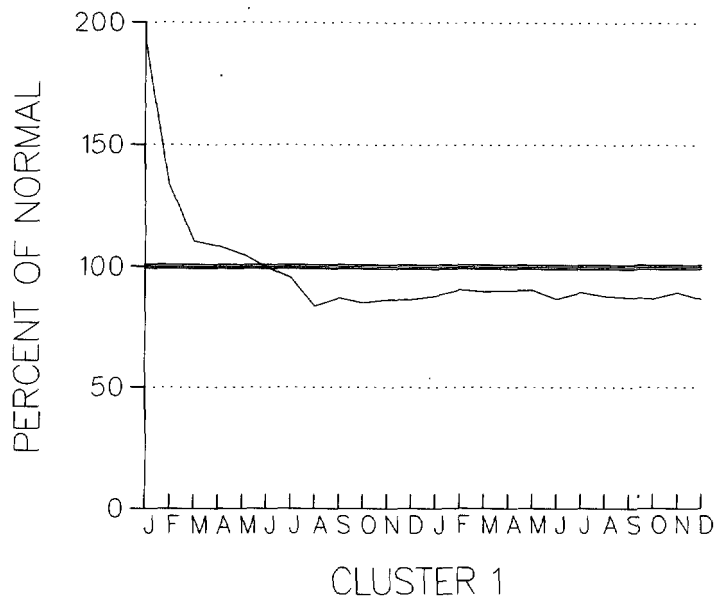
# CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980) FOR THE LAST 24 MONTHS ENDING DECEMBER 1988 MARYLAND

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

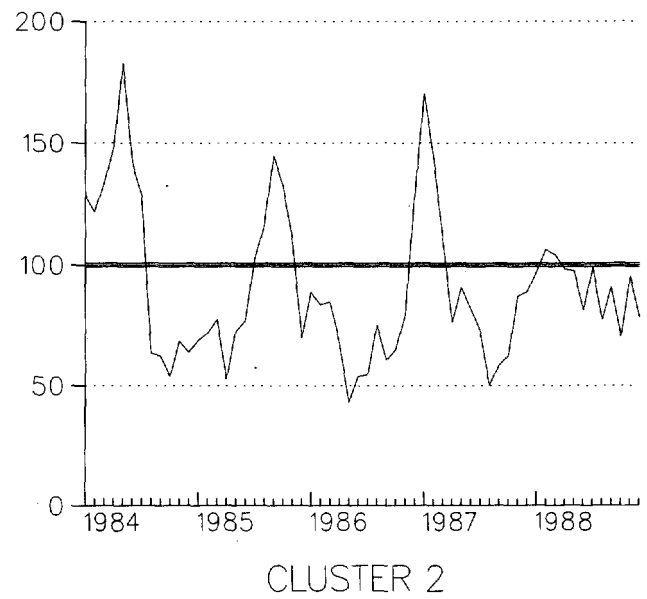
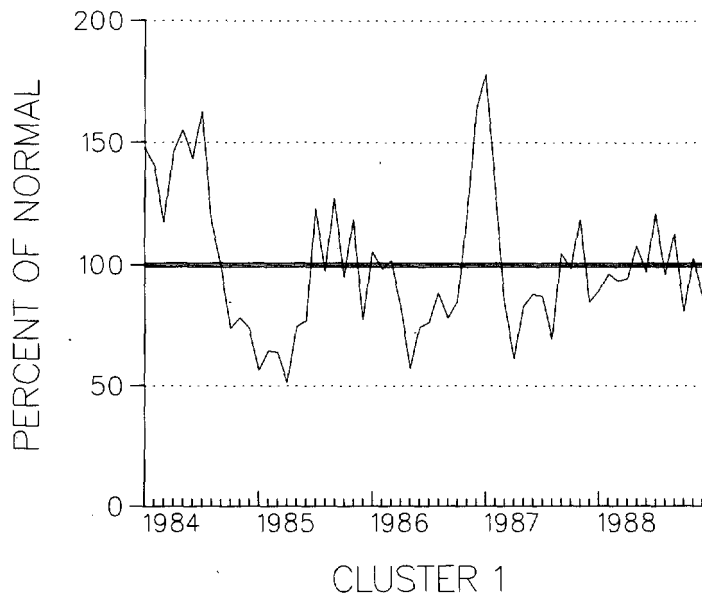
CLUSTER 4 -DIVISION(S):  
ALLEGHENY PLATEAU 08



PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)  
THREE MONTH RUNNING MEAN  
FOR THE 60 MONTHS ENDING WITH DECEMBER 1988 DATA  
DELAWARE

CLUSTER 1 -DIVISION(S):  
NORTHERN 01

CLUSTER 2 -DIVISION(S):  
SOUTHERN 02



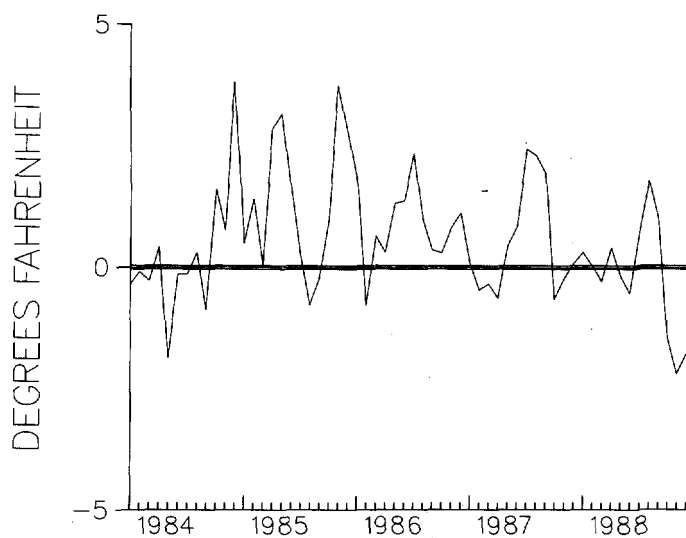
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)  
THREE MONTH RUNNING MEAN  
FOR THE 60 MONTHS ENDING WITH DECEMBER 1988 DATA:  
MARYLAND

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

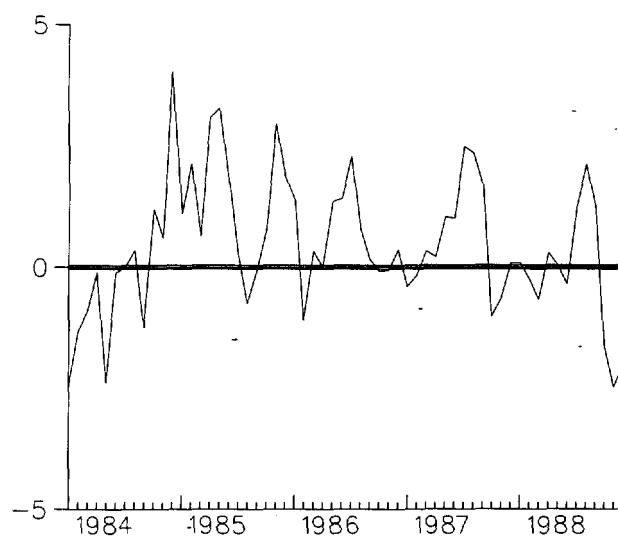
CLUSTER 2 -DIVISION(S):  
UPPER SOUTHERN 04  
NORTHERN EASTERN SHORE 05

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

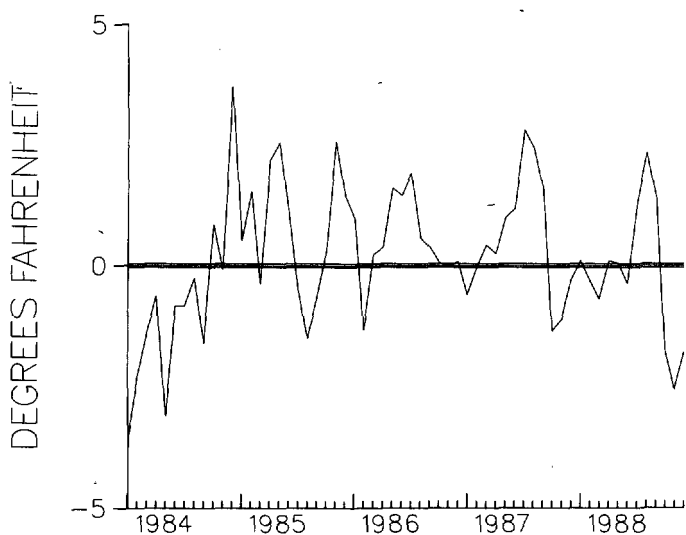
CLUSTER 4 -DIVISION(S):  
ALLEGHENY PLATEAU 08



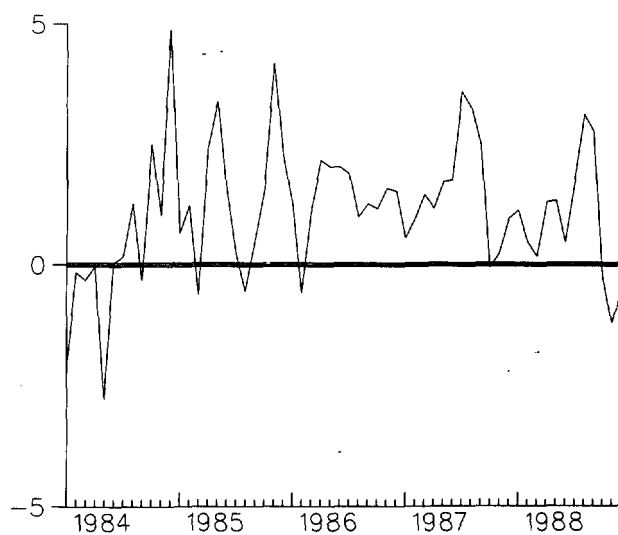
CLUSTER 1



CLUSTER 2



CLUSTER 3

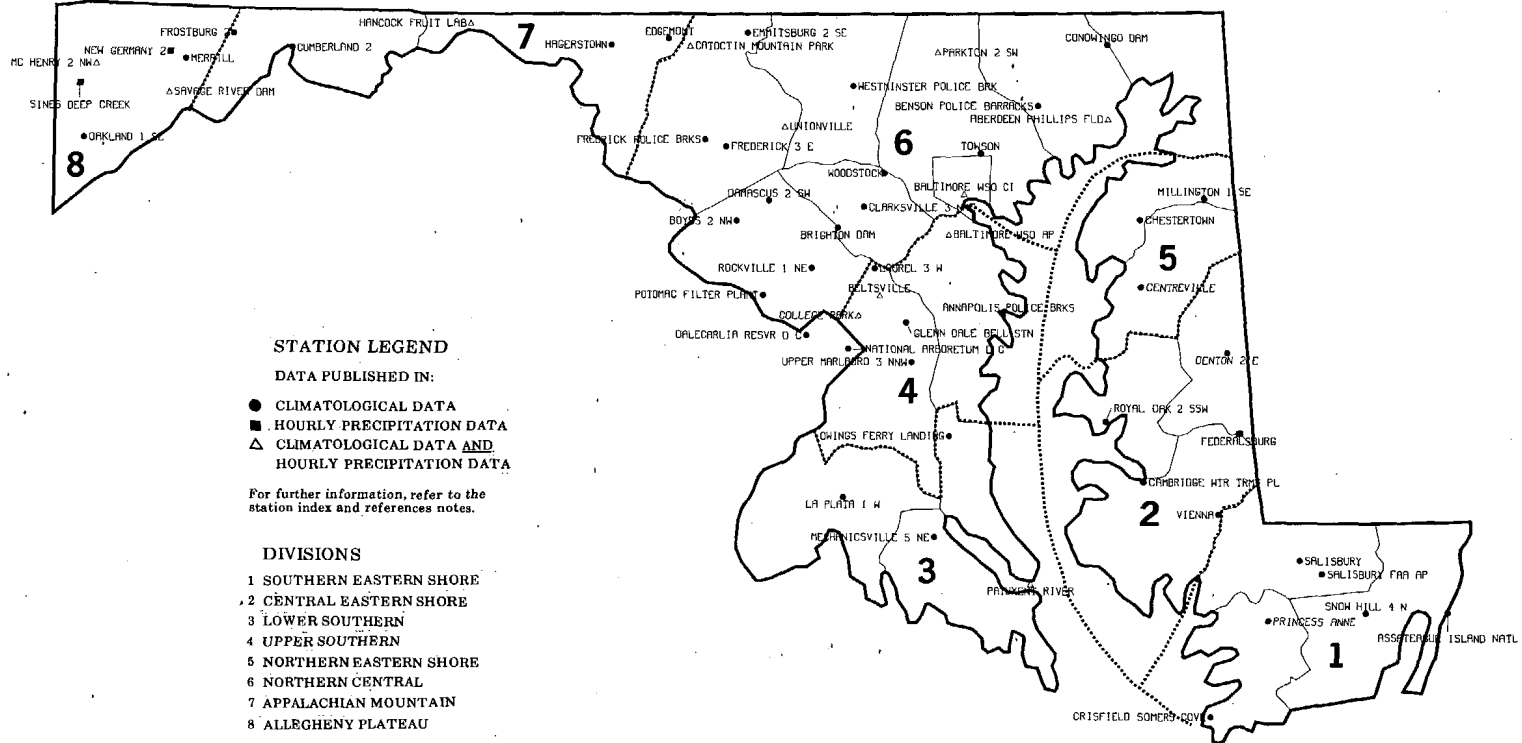
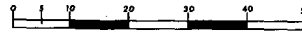


CLUSTER 4

# 18 - MARYLAND & D.C.

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

STATUTE MILES



40.0 76.0

75.0

40.0

## 07 - DELAWARE

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

STATUTE MILES



## STATION LEGEND

## DATA PUBLISHED IN:

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

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

## DIVISIONS

- 1 NORTHERN
- 2 SOUTHERN

39.0

39.0

2

WILMINGTON PORTER RESERVOIR

NEWARK UNIVERSITY PARK  
WILMINGTON HSD NP

1

● MIDDLETOWN 1 WSW

● DOVER

● MILFORD 4 SE

● BRIDGEVILLE 1 NW

LEWES ●

△ GEORGETOWN 5 SW

38.0 76.0

75.0

38.0



MONTHLY PRECIPITATION TOTALS												ANNUAL 1987	
												NORTH CAROLINA	
STATION	ANNUAL	MONTH											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	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					3.80	4.90	4.80	
BADIN		1.70	1.30	2.60	1.30					2.40	4.10	2.90	
B EVERETT JORDAN DAM		1.70	1.50	3.60							1.70		

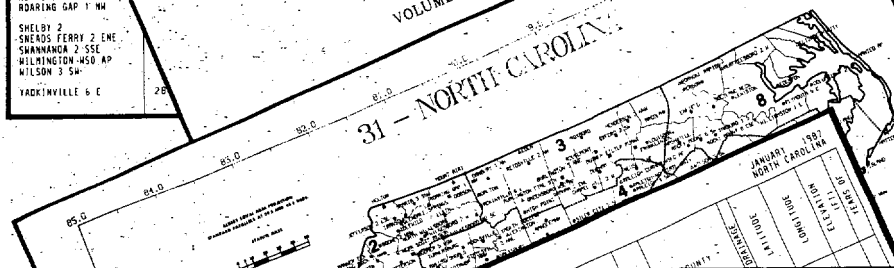


# HOURLY PRECIPITATION DATA NORTH CAROLINA

DECEMBER 1987  
WITH ANNUAL SUPPLEMENT  
VOLUME 37 NUMBER 12

A WORLD OF CLIMATIC  
INFORMATION FOR ....

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STATION INDEX											
STATION	COUNTY	1911/1912	1913/1914	1915/1916	1917/1918	1919/1920	1921/1922	1923/1924	1925/1926	1927/1928	1929/1930
NORTH CAROLINA											
ASHEVILLE WSO AP	SWANNOGA	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000
ASHEVILLE	SWANNOGA	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000
ASHFORD	SWANNOGA	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000
BADIN	SWANNOGA	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000
B EVERETT JORDAN DAM	SWANNOGA	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000	10 21/1000

STATION	MINUTES		45	18 18/1000 19 18/1000 20 27/1000 21 27/1000 40 27/1000 1 20 27/1000												
	15	30														
NORTH CAROLINA																
ASHEVILLE WSO AP	10 21/1000 10 21/1000	10 21/1000 10 21/1000	20 27/1000 20 27/1000													
ASHEVILLE																
ASHFORD																
BADIN																
B EVERETT JORDAN DAM																
HOURLY PRECIPITATION																
A.M. HOUR ENDING																
5	6	7	8	9	10	11	12	1	2	3	4	5				
												.03	.04	.02	.01	.05

HOURLY PRECIPITATION											
STATION	A.M. HOUR ENDING	1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
NORTH CAROLINA											
ASHEVILLE WSO AP	10 21/1000										
ASHEVILLE	10 21/1000										
ASHFORD	10 21/1000										
BADIN	10 21/1000										
B EVERETT JORDAN DAM	10 21/1000										

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## 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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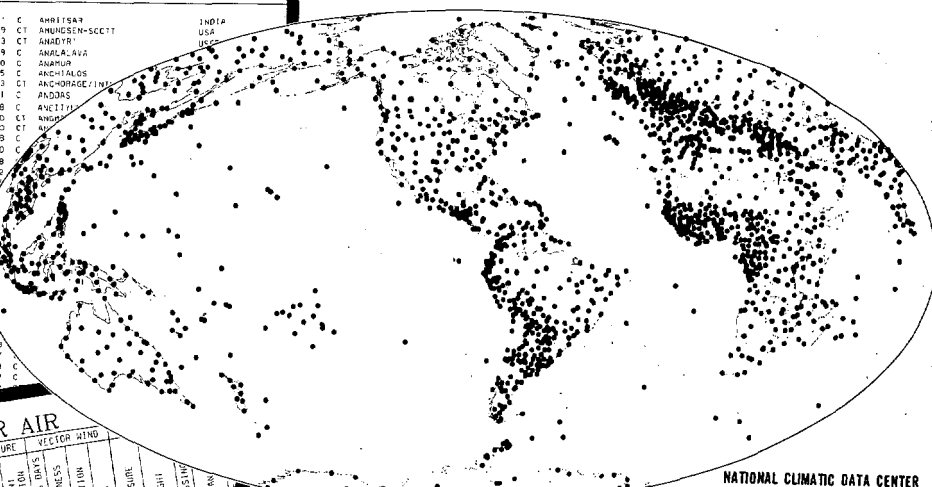
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## CLIMATIC DATA STATIONS - WORLDWIDE

4204	C	ISQAHARI RAJIS	OMAN	4207	C	AMERICAN	INDIA
430931	C	ABQAHN	IRAN, ISLAMIC REP	48009	C	AMERICAN-SCEIT	INDIA
47408	C	ABASHIRI	JAPAN	25593	C	ANADIR	CHINA
71705	C	ABEC SFORD, B.C.	CHAD	67019	C	ANAKAAYA	AMERICA
71108	C	ABEC-C	U KINRGPO	77200	C	ANAPUR	AMERICA
41112	C	ABEDON/DICE	SAUDI ARABIA	9605	C	ANCHALOS	INDIA
41112	C	ABEDON	COZE D'IVOIRE	72923	C	ANCHONGRI	INDIA
85978	C	ABEJMAN	USA	84331	C	ANDRAS	AMERICA
72846	C	ABELINE, TX.	USA	91868	C	ANENITH	INDIA
42126	C	ABU DHABI AIRPORT	J ARAB EMIRATES	91846	C	ANENITH	INDIA
4127	C	ABU DHABI INTL AIRPORT	J ARAB EMIRATES	1730	CT	ANENITH	INDIA
42640	C	ABU DHABI	SUDAN	17329	C	ANENITH	INDIA
62795	C	ABU NAMAH	SUDAN	60750	C	ANENITH	INDIA
76553	C	ACACUTLA	EL SALVADOR	70398	C	ANENITH	INDIA
78007	C	ACAPULCO, GRD.	MEXICO	84842	C	ANENITH	INDIA
80427	C	ACARIDIA	VENEZUELA	84842	C	ANENITH	INDIA
7352	C	ADANA	TURKEY	8707	C	ANENITH	INDIA
83456	C	ADDIS ABABA	ETHIOPIA	12	C	ANENITH	INDIA
96472	C	ADELAIDE AIRPORT	AUSTRALIA	12	C	ANENITH	INDIA
41467	C	ADEN KACHHANAN	YEMEN	12	C	ANENITH	INDIA
65859	C	ADJALIE	COZE D'IVOIRE	12	C	ANENITH	INDIA
66420	C	ADIRAB	ALGERIA	12	C	ANENITH	INDIA
76474	C	ADIRAB, IVIL MEXICO, C.F.	MEXICO	12	C	ANENITH	INDIA
76484	C	ADIRAB, INTL MEXICO, U.S.	MEXICO	12	C	ANENITH	INDIA
76394	C	AEROP INTL, MONTREAL, N.E.	MEXICO	12	C	ANENITH	INDIA
87592	C	AGROFADZE	ARGENTINA	12	C	ANENITH	INDIA
61020	C	AGUEZ	TURKEY	12	C	ANENITH	INDIA
50250	C	AGUEZ	NIGER	12	C	ANENITH	INDIA
61974	C	AGUEZ	MONROVIA	12	C	ANENITH	INDIA
42621	C	AGRA	INDIA	12	C	ANENITH	INDIA
76672	C	AGRIKON (AIRPORT)	GREECE	12	C	ANENITH	INDIA
62647	C	AGRIKON	INDIA	12	C	ANENITH	INDIA
60550	C	AGRI SEFA	ALGERIA	12	C	ANENITH	INDIA
61494	C	AGRI SEFA	ALGERIA	12	C	ANENITH	INDIA
0741	C	AJACCIO	ALGERIA	12	C	ANENITH	INDIA



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37158	C	AJAN	17183	C	AWIA4	47562	C	AWIA4	61435	C	AWIA4
UPPER AIR											
LEVEL			TEMPERATURE			VECTOR WIND			WEATHER		
LEVEL	TEMPERATURE	VECTOR WIND	LEVEL	TEMPERATURE	VECTOR WIND	LEVEL	TEMPERATURE	VECTOR WIND	LEVEL	TEMPERATURE	VECTOR WIND
PRESSURE	HEIGHT	MISSING DATA	PRESSURE	HEIGHT	MISSING DATA	PRESSURE	HEIGHT	MISSING DATA	PRESSURE	HEIGHT	MISSING DATA
ASIA-JAPAN											
ASIA - JAPAN											
HAKODI/NA											

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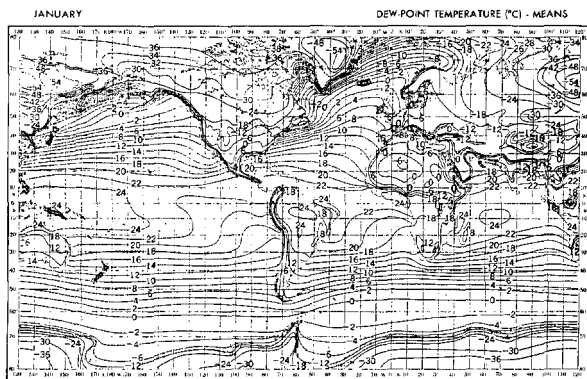
JANUARY 1988  
VOL. 41 NO. 1

ISSN 0027-0296



# MONTHLY CLIMATIC DATA FOR THE WORLD

PREPARED IN COOPERATION WITH THE  
WORLD METEOROLOGICAL ORGANIZATION



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28001  
Kenneth D. Haden  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

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

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, air 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.

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## HOURLY PRECIPITATION DATA

ARIZONA

DECEMBER  
WITH ANNUAL SUPPLEMENT

## HOURLY PRECIPITATION DATA

ARIZONA

VOLUME 35 NUMBER



## CLIMATOLOGICAL DATA ANNUAL SUMMARY ARIZONA

NUMBER 13

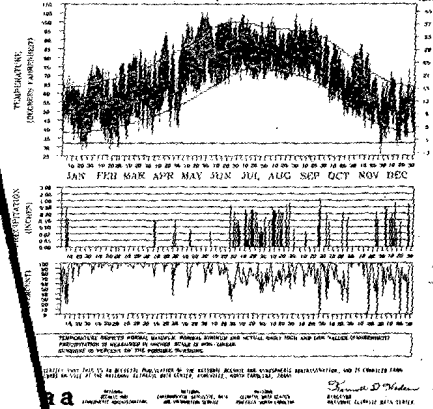
## CLIMATOLOGICAL DATA ARIZONA

## LOCAL CLIMATOLOGICAL DATA Monthly Summary

STATION	DATE	TEMPERATURE	PRECIPITATION	WIND	HUMIDITY	SEA LEVEL PRESSURE	1000 FT. PRESSURE	1000 FT. WIND	1000 FT. HUMIDITY	1000 FT. SEA LEVEL PRESSURE
TUCSON	1961	75.0	1.0	10.0	65.0	30.0	29.0	10.0	65.0	30.0
PHOENIX	1961	75.0	1.0	10.0	65.0	30.0	29.0	10.0	65.0	30.0
SCOTTSDALE	1961	75.0	1.0	10.0	65.0	30.0	29.0	10.0	65.0	30.0
TEMPE	1961	75.0	1.0	10.0	65.0	30.0	29.0	10.0	65.0	30.0
CHANDLER	1961	75.0	1.0	10.0	65.0	30.0	29.0	10.0	65.0	30.0
GLANDER	1961	75.0	1.0	10.0	65.0	30.0	29.0	10.0	65.0	30.0
BUENA VISTA	1961	75.0	1.0	10.0	65.0	30.0	29.0	10.0	65.0	30.0
CHANDLER	1961	75.0	1.0	10.0	65.0	30.0	29.0	10.0	65.0	30.0
CHANDLER	1961	75.0	1.0	10.0	65.0	30.0	29.0	10.0	65.0	30.0
CHANDLER	1961	75.0	1.0	10.0	65.0	30.0	29.0	10.0	65.0	30.0

## LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA TUCSON, ARIZONA

Daily Data



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



## STORM DATA



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