

CLIMATOLOGICAL DATA ANNUAL SUMMARY MARYLAND AND DELAWARE 1991

VOLUME 95 NUMBER 13



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

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

MARYLAND AND
DELAWARE
1991

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	5.79		1.43		4.36		1.37		.76		5.35	
CRISFIELD SOMERS COVE	3.25	.02 M										
PRINCESS ANNE	7.04	3.71	1.30	-2.00 M	1.44		2.56	-.76	.65	-2.70	3.75	.34
SALISBURY	4.87	1.35	1.49	-1.92	5.18	.96	2.73	-.58	1.39	-1.93	3.44	-.18
SALISBURY FAA ARPT	5.20	1.82	1.81	-1.52	6.39	2.31	2.77	-.39	1.66	-1.72	4.84	1.29
SNOW HILL 4 N	5.31	1.68	.95	-2.65	5.25	.65	2.97	-.35	.66	-2.77	2.60	-1.20
--DIVISIONAL DATA-->	5.24	1.82	1.40	-1.91	5.30	1.15	2.48	-.68	1.02	-2.29	4.00	.57
CENTRAL EASTERN SHORE 02												
CAMBRIDGE WATER TRMT P	4.68	1.19	1.26	-1.90	5.13	1.07	2.30	-1.00	.93	-2.67	3.00	-.57
ROYAL OAK 2 SSW	4.73	1.29	1.49	-1.71	5.16	1.09	3.45	-.04	2.39	-1.24	1.75	-1.68
VIENNA	5.26	1.74	1.66	-1.61	4.01	.09	2.82	-.52	1.15	-1.87	2.21	-1.35
--DIVISIONAL DATA-->	4.89	1.47	1.47	-1.65	4.77	.84	2.86	-.41	1.49	-1.94	2.32	-1.16
LOWER SOUTHERN 03												
LA PLATA 1 W	2.83	-.31	.88	-2.00	4.71	.95	1.82	-1.35	1.94	-1.53	2.00	-1.78
MECHANICSVILLE 5 NE	3.65		1.06		4.55		1.33		2.19		2.15	
OWINGS FERRY LANDING	3.26	.12	1.11	-1.61	5.07	1.53	2.30	-.94	1.97	-1.83	1.45	-2.26
TALL TIMBERS												
--DIVISIONAL DATA-->	3.25	-.02	1.02	-1.89	4.78	1.03	1.82	-1.31	2.03	-1.56	1.87	-1.76
UPPER SOUTHERN 04												
ANNAPOLIS POLICE BRKS	3.50		1.10		6.05		1.96		1.98		2.23	
BALTIMORE WSO ARPT	3.54	.54	.73	-2.25	5.65	1.93	1.68	-1.67	1.16	-2.28	1.08	-2.68
BELTSVILLE	3.03	.12	.88	-1.62	5.94	2.45	2.09	-1.28	2.32	-1.49	1.98	-1.91
COLLEGE PARK	3.20	.19	.91	-1.88	5.11	1.46	1.27	-2.10	2.37	-1.48	3.79	-.06
DALECARLIA RESVR DC	3.37	.30	1.22	-1.71	5.65	1.82	2.01	-1.59	1.63	-2.14	2.16	-1.52
GLENN DALE BELL STN	3.45	.39	1.02	-1.73	5.92	2.22	1.86	-1.66	2.07	-1.87	1.89	-1.98
LAUREL 3 W	3.05		1.03	-1.66	6.70	3.04	2.43	-.97	1.21	-2.85	1.53	-2.36
NATIONAL ARBORETUM DC	3.14	-.03	.83	-2.02	5.43	1.68	1.74	-1.63 M	.91		1.33	-2.62
UPPER MARLBORO 3 NNW	2.70	-.58	.97	-1.76	5.25	1.53	1.61	-1.71	2.18	-1.42	2.29	-1.55
--DIVISIONAL DATA-->	3.20	.14	.97	-1.82	5.74	2.06	1.85	-1.52	1.87	-1.88	2.03	-1.77
NORTHERN EASTERN SHORE 05												
CHESTERTOWN	3.66	.38	1.39	-1.56	4.92	.94	2.65	-.60	2.06	-1.56	3.31	-.93
MILLINGTON 1 SE	2.15		1.19	-1.68	5.30	1.60	3.32	.14	2.56	-.86	2.47	-1.20
--DIVISIONAL DATA-->	3.66	.39	1.29	-1.59	5.11	1.35	2.99	-.21	2.31	-1.14	2.89	-.97
NORTHERN CENTRAL 06												
ABERDEEN PHILLIPS FLD	3.43		.90		3.85		2.55		2.50		.87	
BALTIMORE WSO CITY	3.20	.13	.77	-2.30	5.03	1.10	1.81	-1.70	1.14	-2.49	.62	-3.09
BENSON POLICE BARRACKS	3.91	.48	1.47	-1.41	5.41	1.37	2.66	-1.34	1.61	-2.44	1.80	-2.50
BOYDS 2 NW	3.72		.88									
CATOCTIN MOUNTAIN PARK	3.54		1.86		5.23		2.95		1.98		1.67	
CLARKSVILLE 3 NNE	3.12		1.14		5.42		1.92		1.93		2.11	
CONOWINGO DAM	3.65	.32	1.26	-1.59 M	5.10		2.04	-1.78	2.81	-.92	2.33	-1.96
DAMASCUS 2 SW	3.74		1.17		4.55		2.43		1.73		2.66	
EMMITSBURG 2 SE	3.75		1.50		4.37		1.95		1.99		.86	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

MARYLAND AND
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1991

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	5.12		4.58		2.86		.97		1.26		4.36		38.21	
CRISFIELD SOMERS COVE														
PRINCESS ANNE	5.82	2.00	6.64	1.01	4.53	.56	2.59	-1.09	.13	-3.11	4.34	.94	40.79	
SALISBURY	4.07	.31	7.22	1.50	5.35	1.76	2.62	-1.01	.44	-2.67	3.95	.33	42.75	-2.08
SALISBURY FAA ARPT	5.31	.91	6.09	.37	4.70	.76	2.60	-1.13	.63	-2.43	4.29	.58	46.29	.85
SNOW HILL 4 N	6.00	2.01	6.10	.67	3.65	.12	3.68	-1.12	1.06	-2.32	4.02	.31	42.25	-3.97
--DIVISIONAL DATA----->	5.26	1.33	6.13	.93	4.22	.63	2.49	-1.07	.70	-2.49	4.19	.67	42.43	-1.34
CENTRAL EASTERN SHORE 02														
CAMBRIDGE WATER TRMT P	M 3.22	-1.17	M 2.44	-2.65	M 3.66	-.06	M 2.48	-.98	.90	-2.83	5.88	2.14	37.55	-7.76
ROYAL OAK 2 SSW	4.58	.64	5.54	-.09	3.50	-.47	3.34	-.10	.27	-3.05	4.03	.46	38.37	-6.13
VIENNA														
--DIVISIONAL DATA----->	3.90	-.24	3.99	-1.23	3.58	-.07	2.91	-.42	.59	-2.94	4.96	1.36	37.73	-6.39
LOWER SOUTHERN 03														
LA PLATA 1 W	3.49	-.54	2.42	-2.50	3.10	-.34	2.01	-1.40	1.04	-2.16	5.58	2.16	31.82	-10.80
MECHANICSVILLE 5 NE	2.02		2.92		2.65		2.98		.86		5.79		32.15	
OWINGS FERRY LANDING	3.04	-.62	3.85	-.34	4.45	.93	3.16	-.11	.93	-2.40	5.39	2.10	35.98	-5.43
TALL TIMBERS														
--DIVISIONAL DATA----->	2.85	-1.25	3.06	-1.56	3.40	-.10	2.72	-.55	.94	-2.40	5.59	2.21	33.33	-9.16
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	3.42		4.29		M 3.05	-.41	2.80		1.73		4.59			
BALTIMORE WSO ARPT	R 1.76	-2.13	2.54	-2.08	3.05	-.41	3.20	.09	1.69	-1.42	4.08	.68	30.16	-11.68
BELTSVILLE	4.41	.27	3.27	-1.44	2.59	-1.12	3.36	.12	1.59	-1.38	4.95	1.61	36.41	-5.67
COLLEGE PARK	7.35	3.29	3.40	-1.60	2.84	-.72	3.07	-.04	1.43	-1.67	5.25	1.87	39.99	-2.74
DALECARLIA RESVR DC	7.91	3.87	1.51	-3.09	4.28	.86	3.00	-.30	1.42	-1.73	5.10	1.61	39.26	-3.62
GLENN DALE BELL STN	2.91	-1.40	2.71	-2.20	2.56	-1.10	3.40	.10	1.28	-2.06	5.28	1.89	34.35	-9.40
LAUREL 3 W	1.84	-2.04	2.27	-1.90	4.28	.90	3.21	.08	2.50	-.90	5.18	1.84	35.23	
NATIONAL ARBORETUM DC	3.92	-.28	2.11	-2.99	3.88	.30	2.68	-.49	1.06	-2.02	5.33	1.97	32.36	
UPPER MARLBORO 3 NNW	3.45	-.61	2.04	-2.62	3.45	-.28	2.93	-.36	1.20	-1.96	5.25	1.86	33.32	-9.46
--DIVISIONAL DATA----->	4.11	.12	2.68	-2.06	3.37	-.15	3.07	-.07	1.54	-1.59	5.00	1.62	35.43	-6.92
NORTHERN EASTERN SHORE 05														
CHESTERTOWN	4.67	.73	2.62	-1.99	5.15	1.57	1.41	-1.75	.90	-2.56	4.71	.84	37.45	-6.49
MILLINGTON 1 SE	4.25	.38	2.84	-1.90	4.50	.71	1.42	-1.63	.87	-2.60	4.64	1.06	35.51	
--DIVISIONAL DATA----->	4.46	.53	2.73	-1.78	4.83	1.16	1.42	-1.64	.89	-2.51	4.68	1.03	37.26	-5.38
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FLD	2.99		M 5.23		4.74		1.93		M 1.68		M 3.38			
BALTIMORE WSO CITY	R 2.72	-1.31	2.27	-2.30	2.90	-.76	2.43	-.66	2.08	-1.26	4.58	.80	29.55	-13.84
BENSON POLICE BARRACKS	4.42	.07	4.51	-.40	5.64	1.46	3.03	.05	2.68	-1.21	4.59	.60	41.73	-5.27
BOYDS 2 NW														
CATOCTIN MOUNTAIN PARK	2.61		2.97		M 4.80		M 1.98		M 2.53		M 4.49			
CLARKSVILLE 3 NNE	2.10		3.18		4.80		1.98		2.53		4.53		34.76	
CONOWINGO DAM	3.19	-1.18	4.40	-.14	3.32	-.57	1.82	-1.37	1.87	-1.61	4.31	.44	36.10	
DAMASCUS 2 SW	2.60		2.48		3.26		1.72		2.64		4.98		33.96	
EMMITSBURG 2 SE	3.31		2.54		4.85		1.87		2.17		4.78		33.94	

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MARYLAND AND
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1991

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
FREDERICK POLICE BRKS	2.72		1.50		4.45		1.88		1.87		2.68	
MILLERS 4 NE	3.28		1.22		3.54		2.60		1.62		1.93	
POTOMAC FILTER PLANT	2.84		.66		4.73		1.92		1.05		1.95	
ROCKVILLE 1 NE	3.03	.08	.84	-1.82	5.74	2.20	1.99	-1.25	1.37	-2.40	3.75	-.24
TOWSON					6.36	2.32	3.30	-.68	3.34	-.67	3.12	-.92
UNIONVILLE	3.60	.84	1.22	-1.19	4.05	.67	2.26	-1.25	1.99	-1.68	1.14	-2.94
WESTMINSTER POLICE BRK	2.77	.35	.94	-1.88	3.80	.12	2.62	-1.07	1.54	-2.33	2.05	-2.04
WOODSTOCK	3.18	.04	1.18	-1.58	5.06	1.12	1.97	-1.65	2.09	-1.68	.75	-3.28
--DIVISIONAL DATA-->	3.35	.22	1.19	-1.62	4.85	1.03	2.33	-1.30	1.97	-1.85	1.96	-2.09
APPALACHIAN												
MOUNTAIN 07												
CUMBERLAND 2	3.47	.94	1.44	-.97	4.38	.77	2.50	-.86	2.19	-1.42	.87	-2.91
EDGE MONT			1.44	-1.18	4.52	.81	2.53	-1.12	2.77	-1.05		
FROSTBURG 2	3.78		2.01		4.85		3.96		2.11		2.72	
HAGERSTOWN	2.87		1.31	-.95	3.76	.38	2.52	-.98	1.59	-2.15	.78	-3.14
HANCOCK	1.11		.97	-1.39	3.80	.31	2.32	-.92	2.62	-.79	.43	-3.43
--DIVISIONAL DATA-->	3.63	.88	1.43	-1.07	4.20	.54	2.83	-.60	2.13	-1.56	1.20	-2.55
ALLEGHENY PLATEAU 08												
MC HENRY 2 NW	5.05		3.36		5.68		4.85		1.80		1.48	
MERRILL	3.05	.14	1.75	-.97	3.98	.06	4.15	.48	1.68	-2.19	1.20	-2.40
OAKLAND 1 SE	3.70	-.09	2.10	-1.10	4.02		4.53	-.02	1.44	-3.00	1.53	-2.83
SAVAGE RIVER DAM	2.88	.28	1.64	-.71	3.29	-.09	3.27	-.21	2.09	-1.58	1.47	-2.03
--DIVISIONAL DATA-->	3.88	.35	2.37	-.72	4.49	.28	4.22	.03	1.78	-2.34	1.49	-2.65
DELAWARE												
NORTHERN 01												
NEWARK UNIVERSITY FARM	3.70	.60	1.21	-1.52	4.69	1.03	3.21	-.29	1.93	-1.59	2.70	-1.05
WILMINGTON WSO ARPT	4.30	1.19	.97	-2.02	4.64	.77	3.28	-.11	1.98	-1.25	3.41	-.10
WILMINGTON PORTER RSVR	4.85	1.56	1.11	-1.89	4.68	.61	3.75	-.13	1.80	-1.77	5.77	1.77
--DIVISIONAL DATA-->	4.28	1.15	1.10	-1.77	4.67	.90	3.41	-.13	1.90	-1.46	3.96	.27
SOUTHERN 02												
DOVER	5.13	1.89	1.48	-1.38	5.65	1.78	3.42	.21	1.44	-2.06	2.28	-1.33
GEORGETOWN 5 SW	5.29	1.94	1.09	-1.93	6.33	2.36	3.28	.08	1.42	-1.84	3.88	.29
GREENWOOD 2 NE	5.31		1.30		5.13		2.60		1.57		5.82	
LEWES	5.68	2.21	1.01	-2.32	7.08	2.87	4.24	.83	1.82	-1.72	1.97	-1.73
MILFORD 4 SE	4.89	1.50	1.19	-1.94	6.30	2.27						
--DIVISIONAL DATA-->	5.26	1.83	1.21	-1.93	6.10	2.07	3.39	.08	1.56	-1.84	3.49	-.16

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	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
FREDERICK POLICE BRKS	1.17		2.97		2.43		1.53		2.29		4.55		30.04	
MILLERS 4 NE	1.39		4.55		6.18		1.70		2.24		4.26		34.51	
POTOMAC FILTER PLANT	2.68		1.47		2.88		1.54		2.41		4.51		28.64	
ROCKVILLE 1 NE	3.65	- .13	1.85	-2.61	3.81	.35	1.46	-1.54	2.34	- .72	4.47	1.47	34.30	-6.61
TOWSON	4.08	- .05												
UNIONVILLE	2.35	-1.24	5.94	2.18	3.39	- .12	1.66	-1.27	2.52	- .57	4.48	1.18	34.60	-5.39
WESTMINSTER POLICE BRK	1.50	-2.50	6.32	2.32	3.49	- .34	3.36	.26	2.78	- .43	4.26		35.43	
WOODSTOCK	1.92	-1.64	2.71	-1.27	4.92	.92	1.90	-1.22	2.60	- .68	4.80	1.28	33.08	-9.64
--DIVISIONAL DATA----->	2.67	-1.23	3.59	- .71	4.13	.30	2.03	-1.12	2.40	- .95	4.57	1.05	35.04	-8.27
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	.88	-2.31	2.80	- .53	1.12	-1.80	.99	-1.73	2.49	- .08	3.45	.81	26.57	-9.93
EDGEMONT	1.67	-1.58	2.67	-1.16	6.61	2.45	2.72	- .58	2.35	-1.03	4.95	1.93		
FROSTBURG 2	2.13		1.90		1.61		.66		2.93		3.78		32.44	
HAGERSTOWN	2.45	- .89	2.72		8.62	5.32	2.07	-1.06	1.85	-1.17	3.05		33.59	
HANCOCK	1.65	-1.91	2.58	- .72	1.39	-1.83	1.06	-1.87	2.26	- .41	3.76	1.17	23.95	
--DIVISIONAL DATA----->	1.78	-1.64	2.43	-1.08	3.19	.00	1.19	-1.78	2.38	- .36	3.66	.82	30.05	-8.40
ALLEGHENY PLATEAU 08														
MC HENRY 2 NW	4.43		1.87		1.30		2.21		3.41		5.57		41.01	
MERRILL	2.84	- .83	2.35	-1.31	1.24	-1.62	1.15	-1.73	2.93	.32	3.63	.50	29.95	-9.55
OAKLAND 1 SE	3.28	-1.40	2.98	-1.62	2.13	- .98	1.60	-1.57	2.59	- .55	4.46	.56	34.36	
SAVAGE RIVER DAM	2.67	- .95	2.82	- .79	.81	-2.18	1.17	-1.71	2.53	.18	3.75	1.07	28.39	-8.72
--DIVISIONAL DATA----->	3.46	- .81	2.56	-1.62	1.41	-1.75	1.66	-1.47	2.84	- .16	4.59	.94	34.75	-9.92
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM	4.06	- .26	3.75	- .75	4.42	.81	1.39	-1.79	2.28	- .91	4.19	.66	37.53	-5.06
WILMINGTON WSO ARPT	3.71	- .19	5.38	1.35	5.36	1.77	1.27	-1.62	1.26	-2.07	4.26	.72	39.82	-1.56
WILMINGTON PORTER RSVR	5.57	1.44	5.42	1.00	5.99	2.18	1.50	-1.73	1.69	-2.07	4.57	.83	46.70	1.80
--DIVISIONAL DATA----->	4.45	.45	4.85	.68	5.26	1.67	1.39	-1.78	1.74	-1.64	4.34	.79	41.35	- .87
SOUTHERN 02														
DOVER	6.52	2.25	3.41	-1.71	3.84	- .30	2.13	-1.43	.54	-2.99	5.05	1.52	40.89	-3.55
GEORGETOWN 5 SW	5.93	1.91	4.46	- .97	4.28	.77	3.18	- .30	.96	-2.33	4.70	1.11	44.80	1.09
GREENWOOD 2 NE	5.05		4.47		4.83		2.79		.62		5.34		44.83	
LEWES	6.86	2.70	4.87	- .49	4.00	.74	2.51	- .82	.95		4.54	.72	45.53	
MILFORD 4 SE														
--DIVISIONAL DATA----->	6.09	1.86	4.30	- .94	4.24	.57	2.65	- .82	.71	-2.66	4.91	1.18	43.91	- .76

SEE REFERENCE NOTES FOLLOWING STATION INDEX

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

MARYLAND AND
DELAWARE
1991

TEMPERATURE DEPARTURES AND DEPARTURES FROM NORMALE (1991)																										
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	37.2		39.8		46.3		54.6		65.8		71.5		75.8		M76.5		68.7		62.9		48.0		42.1		M57.4	
CRISFIELD SOMERS COVE	39.4	2.6	M																							
PRINCESS ANNE	39.2	3.6	43.0	5.7	48.4	3.4	57.2	2.4	69.4	5.6	72.6	.9	77.5	1.5	M74.8	-.2	69.3	.7	57.7	.1	48.4	.4	43.5	4.3	M58.4	2.4
SALISBURY	39.6	2.9	43.8	5.4	50.4	4.4	58.9	3.1	71.4	6.6	74.9	2.3	79.5	2.5	77.6	1.6	69.6	-.3	59.6	.5	49.9	.4	44.0	3.7	59.9	2.8
SALISBURY FAA ARPT	38.2	3.1	40.8	4.2	47.4	3.2	56.3	2.1	68.4	5.3	72.4	.8	77.7	1.2	76.3	1.0	67.5	-1.1	57.8	.4	48.4	.7	41.4	2.6	57.7	2.0
SNOW HILL 4 N	39.4	3.4	43.0	5.5	48.7	3.7	58.0	3.4	70.9	7.4	73.5	1.9	78.7	2.8	77.4	2.4	68.9	-1.1	59.1	1.0	49.6	1.1	43.6	4.1	59.2	3.1
--DIVISIONAL DATA----->	38.8	2.8	42.1	4.6	48.2	3.1	57.0	2.1	69.2	5.4	73.0	1.0	77.8	1.2	76.5	.7	68.8	-.8	59.4	.7	48.9	.0	42.9	3.1	58.6	2.0
CENTRAL EASTERN SHORE 02																										
CAMBRIDGE WATER TRMT P	38.7	4.0	43.5	7.2	49.6	5.1	57.9	3.0	71.8	7.6	75.2	2.7	M		M		M		M		M		M		M	
ROYAL OAK 2 SSW	38.2	3.2	42.6	5.9	48.1	2.9	57.0	1.2	70.5	5.3	75.0	1.5	80.0	2.3	77.8	1.2	69.3	-1.0	60.1	.8	48.9	.0	43.0	4.1	59.2	2.3
VIENNA	37.0	1.1	M40.2	2.7	47.1	1.5	54.3	-1.3	66.0	1.2	73.9	.9	77.6	2.2	75.2	-1.1	67.3	-2.6	58.4	-.5	48.1	-.9	43.5	3.9	M57.4	.4
--DIVISIONAL DATA----->	38.0	3.0	42.1	5.4	48.3	3.4	56.4	1.1	69.4	4.8	74.7	1.8	78.8	1.6	76.5	.5	68.3	-1.4	59.3	.6	48.5	.0	43.3	4.5	58.6	2.1
LOWER SOUTHERN 03																										
LA PLATA 1 W	38.1	3.5	43.5	6.7	48.3	3.1	58.3	2.8	69.7	5.7	72.3	.7	78.1	2.2	75.5	.7	68.5	-.3	58.5	.9	49.0	1.7	42.4	4.5	58.5	2.7
MECHANICSVILLE 5 NE	37.1		42.7		48.1		57.9		69.6		72.4		78.2		76.0		68.0		57.1		47.6		42.1		58.1	
OWINGS FERRY LANDING	36.4	1.9	42.2	5.9	47.6	3.0	57.4	1.9	69.7	5.3	73.2	1.0	78.6	2.3	76.1	1.1	68.5	-.3	58.1	.4	47.2	-.7	41.5	3.4	58.0	2.1
TALL TIMBERS	M		M		M		M		M		M		M		M		M		M		M		M		M	
--DIVISIONAL DATA----->	37.2	2.3	42.8	5.9	48.0	2.8	57.9	2.2	69.7	5.1	72.6	.2	78.3	1.6	75.9	.3	68.3	-1.0	57.9	-.1	47.9	-.1	42.0	3.4	58.2	1.9
UPPER SOUTHERN 04																										
ANNAPOLIS POLICE BRKS	34.3		39.8		48.0		57.1		71.5		75.3		80.8		78.4		M		59.7		48.4		42.3		M	
BALTIMORE WSO ARPT	35.5	2.8	40.7	6.0	46.7	3.4	55.9	1.9	70.6	7.2	74.6	2.4	79.5	2.7	77.8	2.2	69.0	.1	57.8	.9	45.8	-.5	38.7	2.2	57.7	2.6
BELTSVILLE	34.0	2.7	40.1	7.1	45.6	3.7	54.6	1.9	69.3	7.5	73.0	2.7	78.8	3.6	76.4	2.4	68.3	1.1	57.0	2.0	45.6	.6	39.7	4.4	56.9	3.3
COLLEGE PARK	36.2	2.2	42.0	5.8	47.2	2.6	57.4	2.0	72.2	7.5	75.1	2.2	80.6	3.4	79.4	3.4	70.3	1.1	58.9	1.5	47.5	.6	41.5	4.2	59.0	3.0
DALECARLIA RESVR DC	33.8	-.1	M		M		M		M		M		M		M		M		M		M		M		M	
GLENN DALE BELL STN	36.1	2.9	41.5	6.1	47.1	3.2	56.5	2.3	69.3	5.9	73.1	1.9	78.8	3.2	76.6	2.1	67.7	-.3	57.1	.5	46.8	.5	41.9	5.2	57.7	2.8
LAUREL 3 W	35.6	2.2	40.4	4.7	46.0	1.8	56.8	1.6	72.0	7.6	74.5	1.9	79.4	2.2	78.6	2.4	68.6	-1.0	58.0	-.2	46.9	-.6	39.9	3.0	58.1	2.1
NATIONAL ARBORETUM DC	36.6	1.8	41.4	4.6	47.7	2.1	57.5	1.3	71.8	6.6	75.5	2.1	80.3	2.6	78.8	2.1	70.1	.0	59.0	.7	47.4	-.7	41.5	3.0	59.0	2.2
UPPER MARLBORO 3 NNW	33.6		40.0		46.1		55.5		69.6		72.2		78.0		75.6		67.6		55.7		46.4		40.1		56.7	
--DIVISIONAL DATA----->	35.1	1.9	40.7	5.6	46.8	3.1	56.4	2.0	70.8	7.1	74.2	2.3	79.5	3.0	77.7	2.4	68.8	.1	57.9	.9	46.9	.3	40.7	3.8	58.0	2.7
NORTHERN EASTERN SHORE 05																										
CHESTERTOWN	35.4	2.3	40.2	5.2	46.2	2.8	55.6	1.5	70.0	6.3	74.2	1.9	78.0	1.1	78.0	2.2	68.3	-1.0	58.8	1.0	46.5	-.5	39.7	2.7	57.6	2.1
MILLINGTON 1 SE	35.8	3.6	40.9	6.8	46.9	4.1	55.5	2.3	69.0	6.3	73.1	2.0	77.3	1.7	75.9	1.4	67.4	-.6	58.4	1.9	47.1	1.0	40.9	4.8	57.4	2.9
--DIVISIONAL DATA----->	35.6	2.4	40.6	5.5	46.6	3.1	55.6	1.5	69.5	6.0	73.7	1.6	77.7	1.2	77.0	1.6	67.9	-1.1	58.6	1.0	46.8	-.2	40.3	3.3	57.5	2.2
NORTHERN CENTRAL 06																										
ABERDEEN PHILLIPS FLD	36.4		M43.8		M		57.0		M70.9		M		M78.2		77.1		M		M59.1		M		M40.0		M	
BALTIMORE WSO CITY	35.7	2	41.4	4.1	46.7	1.2	60.0	3.2	74.2	7.9	79.2	3.9	83.1	3.2	82.3	3.9	72.6	.9	62.6	2.5	51.3	2.1	44.9	5.6	61.2	3.2
BENSON POLICE BARRACKS	36.4	5.2	42.3	8.7	47.6	5.5	57.9	5.1	72.1	9.7	76.1	5.5	79.6	4.7	78.3	4.5	69.6	2.1	59.3	3.3	47.7	2.4	41.1	6.0	59.0	5.2
BOYDS 2 NW	34.9		41.1																							
CATOCTIN MOUNTAIN PARK	31.0		37.0		42.8		53.6		67.5		70.4		74.3		73.3		M		M		M		37.1		M	
CLARKSVILLE 3 NNE	34.7		39.9		45.5		54.8		69.1		72.1		77.8		75.5		66.4		56.0		45.1		39.5		M	
CONOWINGO DAM	33.1	2.9	37.1	4.8	44.4	3.3	54.1	2.1	68.1	6.1	73.7	3.1	77.1	2.0	75.9	1.9	66.4	-.8	55.6	.3	45.2		37.3	3.2	M	
DAMASCUS 2 SW	34.1		40.2		45.6		55.5		68.9		71.9		76.9		76.3		66.6		57.2		45.2		39.0		56.5	
EMMITSBURG 2 SE	32.4		39.5		44.4		54.1		67.0		71.8		77.8		75.6		65.5		55.2		44.3		37.9		55.5	
FREDERICK POLICE BRKS	M		M		47.3		57.4		71.9		75.8		80.7		78.9		68.9		58.8		47.4		40.6		M	
MILLERS 4 NE	32.8		39.0		44.3		54.2		67.9		71.7		76.7		75.1		64.8		55.8		44.7		37.9		55.4	
ROCKVILLE 1 NE	34.8	1.5	40.5	5.1	46.0	1.9	55.9	1.0	70.4	6.5	73.3	1.8	77.9	2.2	76.8	2.4	67.3	-.4	57.3	.5	46.1	-.2	39.5	3.1	57.2	2.1
TOWSON	M		M		M		M		M		M		M		M		M		M		M		M		M	
UNIONVILLE	32.2	2.7	37.9	6.0	44.4	3.5	53.2	1.7	67.7	6.8	71.1	1.8	77.2	3.6	74.9	2.7	65.2	-.1	55.2	1.4	43.3	.1	36.8	3.4	54.9	2.8
WESTMINSTER POLICE BRK	34.7	4.6	40.3	8.1	45.8	4.8	56.1	3.9	69.9	8.4	74.5	4.6	78.8	4.6	77.9	4.9	67.7	1.4	57.6	2.7	46.1	1.8	39.7	5.7	57.4	4.6
WOODSTOCK	34.6	3.2	40.7	7.2	46.1	4.0	56.5	3.6	70.1	7.7	73.4	3.1	78.9	4.0	77.1	3.6	67.8	1.0	57.5	2.3	46.4	1.7	39.3	4.1	57.4	3.8

SEE REFERENCE NOTES FOLLOWING STATION INDEX

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

MARYLAND AND
DELAWARE
1991

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
--DIVISIONAL DATA----->	34.1	2.5	40.1	6.4	45.5	3.2	55.7	2.5	69.8	7.2	73.5	2.7	78.2	3.1	76.8	2.9	67.4	.0	57.5	1.7	46.1	.9	39.3	4.0	57.0	3.1
APPALACHIAN MOUNTAIN 07																										
CUMBERLAND 2	32.2	1.3	38.1	4.9	45.2	3.1	56.1	2.6	69.3	6.5	72.9	2.5	78.2	3.8	76.1	2.9	66.7	.1	56.4	1.4	43.2	-.9	36.9	2.6	55.9	2.6
FROSTBURG 2	27.1		31.9		38.2		48.7		63.5		66.1		71.2		70.0		61.3		52.3		39.0		33.8		50.3	
HAGERSTOWN	31.9	1.3	37.9	5.0	44.7	2.6	53.4	-.2	69.2	6.1	73.7	2.7	77.4	4.5	75.9	2.5	66.3	-.5	55.8	.5	44.0	-.3	37.8	3.6		
HANCOCK	31.0	1.8	37.5	6.4	44.2	4.2	52.4	1.3	67.9	7.7	71.2	2.7	77.4	4.5	74.3	2.6	64.7	-.2	54.1	1.2	42.2	-.6	36.7	3.8	54.5	3.0
--DIVISIONAL DATA----->	30.6	.5	36.4	4.2	43.1	2.1	52.7	.4	67.5	5.9	71.0	1.5	75.6	2.2	74.1	1.8	64.8	-.9	54.7	.4	42.1	-1.5	36.3	2.6	54.1	1.6
ALLEGHENY PLATEAU 08																										
MC HENRY 2 NW	26.5		31.2		38.1		48.9		63.7		66.9		70.7		69.0		60.6		52.2		37.0		33.0		49.8	
OAKLAND 1 SE	28.5	2.3	33.0	5.0	40.3	3.9	50.5	3.3	63.4	7.1	65.5	1.9	70.7	3.3	68.4	1.7	61.0	.5	51.5	2.0	39.2	.0	34.3	4.4	50.5	3.0
SAVAGE RIVER DAM	28.4	2.0	33.2	5.3	40.2	3.4	49.9	1.5	64.7	6.9	67.4	2.0	72.2	2.7	70.9	2.3	62.6	.6	51.8	1.0	38.8	-1.5	34.1	3.9	51.2	2.5
--DIVISIONAL DATA----->	27.8	2.3	32.5	5.3	39.5	3.7	49.8	2.6	63.9	7.3	66.6	2.6	71.2	3.5	69.4	2.6	61.4	.8	51.8	2.3	38.3	-.8	33.8	4.4	50.5	3.1
DELAWARE																										
NORTHERN 01																										
NEWARK UNIVERSITY FARM	35.1	3.4	40.6	6.9	45.2	3.1	55.2	2.4	69.2	6.5	74.0	2.7	77.7	2.0	76.7	2.2	67.6	-.3	57.5	1.2	46.1	.3	39.9	4.3	57.1	2.9
WILMINGTON WSO ARPT	34.3	3.1	39.7	6.5	44.9	3.1	54.7	2.3	69.1	6.9	73.6	2.4	77.3	1.3	76.7	1.9	67.2	-.7	57.6	1.3	46.8	1.2	39.5	4.0	56.8	2.8
WILMINGTON PORTER RSVR	34.2	3.4	39.6	7.0	45.1	4.1	54.5	2.7	69.0	7.4	73.4	3.0	76.7	1.8	76.6	2.9	67.0	.1	57.3	1.6	45.8	.6	39.0	3.9	56.5	3.2
--DIVISIONAL DATA----->	34.5	2.9	40.0	6.5	45.1	3.1	54.8	2.1	69.1	6.7	73.7	2.5	77.2	1.5	76.7	2.2	67.3	-.5	57.5	1.1	46.2	.4	39.5	3.8	56.8	2.7
SOUTHERN 02																										
DOVER	38.0	3.6	42.5	6.1	48.1	3.8	56.6	1.9	70.8	6.6	74.9	2.3	78.7	1.7	77.3	1.5	69.3	-.3	59.5	.9	49.2	1.0	42.8	4.4	59.0	2.8
GEORGETOWN 5 SW	36.7	2.5	41.2	5.4	46.5	3.0	54.7	1.1	68.0	4.9	72.6	1.1	77.4	1.3	75.4	.5	67.0	-1.4	57.0	.0	47.7	.5	41.7	3.9	57.2	1.9
GREENWOOD 2 NE	36.8		40.6		46.6		55.0		68.3		71.8		76.3		75.1		66.5		58.3		47.5		40.9		57.0	
LEWES	39.6	5.0	43.4	7.3	48.7	5.4	57.6	4.5	70.8	8.7	74.5	3.8	79.0	3.8	78.1	3.8	69.8	1.4	60.1	2.6	50.7	2.7	44.3	5.8	59.7	4.6
MILFORD 4 SE	37.8	3.5	42.0	6.2	47.8	3.5																				
--DIVISIONAL DATA----->	37.8	3.3	41.9	5.8	47.5	3.6	56.0	1.9	69.5	6.1	73.5	1.7	77.9	1.7	76.5	1.4	68.2	-.5	58.7	1.0	48.8	1.0	42.4	4.1	58.2	2.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

MARYLAND AND
DELAWARE
1991

1991																														
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	95	8/27	11	1/22	2/17	13	3/12	19	3/12	19	3/12	19	3/31	30	11/ 4	30	11/ 5	22	11/ 5	22	12/17	19	NONE	MSG		280	238	238	218	
CRISFIELD SOMERS COVE					MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		NONE	MSG						
PRINCESS ANNE	98	7/24	13	1/26	2/17	16	2/17	16	3/10	24	4/ 4	27	4/ 4	27	10/ 8	30	10/14	28	11/ 6	18	11/ 6	18	11/27	14	283	262	241	193	187	
SALISBURY	98	7/23	12	1/23	1/26	16	2/16	19	2/17	21	3/12	27	4/ 3	31	11/ 5	28	11/ 5	28	11/ 6	23	12/19	18	12/20	163	288	306	262	238	216	
SALISBURY FAA ARPT	98	7/23	10	1/23	2/17	16	2/17	16	2/28	21	4/ 3	27	4/ 4	29	10/21	31	11/ 5	27	11/ 6	21	11/27	17	12/20	153	306	283	251	216	200	
SNOW HILL 4 N	98	5/31	9	1/23	2/17	14	2/24	20	3/10	23	4/ 4	27	4/ 4	27	10/21	30	11/ 5	27	11/ 6	21	11/27	18	NONE			276	241	215	200	
CENTRAL EASTERN SHORE 02																														
CAMBRIDGE WATER TRMT P					1/26	16	2/17	18	2/24	23	2/28	28	4/ 1	30	MSG		MSG		MSG		MSG		MSG							
ROYAL OAK 2 SSW	99	7/23	16	1/23	1/23	16	2/16	18	2/24	22	3/ 9	27	4/ 3	30	11/ 5	29	11/ 6	25	11/27	22	12/19	20	NONE							
VIENNA	100	6/30	11	1/23	2/17	15	2/28	20	3/12	21	4/ 3	25	4/ 4	31	10/ 8	29	10/21	28	11/ 6	24	11/27	19	12/20	153	306	272	239	201	187	
LOWER SOUTHERN 03																														
LA PLATA 1 W	97	7/23	14	1/23	2/16	15	2/24	20	3/ 9	24	4/ 3	28	4/ 4	32	10/30	31	11/ 5	27	11/ 6	22	11/27	18	12/20	153	307	276	242	216	209	
MECHANICSVILLE 5 NE	100	7/23	10	1/23	2/16	16	2/24	20	3/ 9	22	4/ 3	26	4/ 4	29	10/ 8	32	11/ 5	24	11/ 5	24	11/ 6	19	12/20	133	307	255	241	216	187	
OWINGS FERRY LANDING	100	7/23	10	1/23	2/17	16	2/24	20	3/ 9	24	4/ 3	26	4/ 4	30	10/21	31	11/ 5	24	11/ 5	24	11/ 6	20	12/20	133	306	255	241	216	200	
TALL TIMBERS					MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG							
UPPER SOUTHERN 04																														
ANNAPOLIS POLICE BRKS			8	1/23	2/17	14	2/24	19	2/28	24	4/ 4	25	4/ 4	25	11/ 5	26	11/ 5	26	11/27	21	12/19	17	MSG			298	272	215	215	
BALTIMORE WSO ARPT	R102	7/23	12	1/23	2/16	16	2/17	18	3/ 9	24	4/ 3	28	4/ 3	28	10/21	31	11/ 4	28	11/ 6	22	11/27	18	12/19	163	306	283	242	215	201	
BELTSVILLE	101	7/24	9	1/23	2/17	15	2/24	19	3/12	24	4/ 3	26	4/ 4	29	10/21	30	11/ 5	24	11/ 5	24	11/ 6	19	12/20	123	306	255	238	216	200	
COLLEGE PARK	103	7/24	11	1/23	1/26	14	2/16	17	3/ 9	21	4/ 3	28	4/ 4	31	10/21	32	11/ 5	26	11/ 6	21	11/27	19	12/20	163	288	284	242	216	200	
DALECARLIA RESVR DC	101	7/24			MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG							
GLENN DALE BELL STN	100	7/23	7	1/23	2/24	15	2/28	20	4/ 3	23	4/ 4	26	4/12	30	10/ 8	31	10/21	27	11/ 5	22	11/ 6	16	11/ 6	16	255	251	216	200	179	
LAUREL 3 W	102	7/23	11	2/16	2/16	11	2/17	19	3/12	22	3/30	28	4/ 3	31	10/17	32	11/ 4	26	11/ 5	21	12/16	19	NONE			302	238	219	197	
NATIONAL ARBORETUM DC	102	7/24	14	1/23	2/17	16	2/17	16	2/25	24	3/31	28	4/ 3	29	10/30	32	11/ 5	28	11/ 6	24	12/20	19	NONE			306	254	219	210	
UPPER MARLBORO 3 NNW	102	7/24	5	1/26	2/24	16	2/28	20	3/17	23	4/ 4	28	4/ 4	28	10/ 8	31	10/21	27	11/ 5	21	11/27	15	11/27	152	276	272	233	200	187	
NORTHERN EASTERN SHORE 05																														
CHESTERTOWN	100	7/23	14	1/26	2/16	16	2/17	19	3/12	24	3/17	28	4/ 3	29	10/21	32	11/ 5	26	11/ 6	23	11/27	20	NONE			283	239	233	201	
MILLINGTON 1 SE	97	7/23	11	1/23	1/26	12	2/24	20	3/14	24	4/ 3	26	4/ 4	30	10/21	29	11/ 5	26	11/ 6	20	11/ 6	20	12/20	153	328	255	237	216	200	
NORTHERN CENTRAL 06																														
ABERDEEN PHILLIPS FLD	100	7/24	14	1/26	MSG		MSG		MSG		MSG		4/ 3	30	MSG		MSG		MSG		MSG		MSG							
BALTIMORE WSO CITY	R104	7/21	15	2/16	2/16	15	2/16	15	2/17	22	3/13	28	3/30	32	11/ 5	30	12/ 5	27	12/19	22	NONE		NONE				305	267	220	
BENSON POLICE BARRACKS	103	7/23	13	1/23	2/16	15	2/17	19	2/24	21	3/31	28	4/ 4	32	10/21	30	11/ 5	25	11/ 6	21	11/27	20	NONE			283	255	219	200	
BOYDS 2 NW					MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG							
CATOCTIN MOUNTAIN PARK					2/17	16	3/12	18	3/12	18	4/ 3	27	4/22	31	MSG		MSG		MSG		MSG		MSG							
CLARKSVILLE 3 NNE	102	7/23	7	1/23	2/17	12	3/ 9	18	4/ 3	22	4/ 4	26	4/23	32	10/ 8	30	10/21	26	11/ 5	21	11/ 6	15	11/ 6	15	262	224	216	200	168	
CONOWING DAM	105	7/23	7	1/23	2/17	10	2/27	20	4/ 3	24	4/ 4	27	4/ 4	27	10/ 7	32	11/ 4	26	11/ 6	16	11/ 6	16	11/ 6	16	262	225	217	214	186	
DAMASCUS 2 SW	97	8/ 3	11	1/22	2/17	16	3/12	20	3/12	20	3/31	28	4/ 3	29	10/20	31	11/ 4	27	11/ 5	21	12/ 5	18	12/19	143	305	268	238	218	200	
EMMITSBURG 2 SE	101	7/23	10	1/26	2/16	14	3/12	20	4/ 3	23	4/ 3	23	4/ 4	29	10/14	30	10/21	26	10/30	24	11/ 6	17	11/27	142	284	239	210	201	193	
FREDERICK POLICE BRKS	102	7/24			MSG		MSG		3/13	24	4/ 3	28	4/ 3	28	10/21	30	11/ 5	26	11/ 6	22	11/27	20	12/20	12			238	216	201	
MILLERS 4 NE	98	7/23	10	1/23	2/16	12	2/24	20	3/12	22	4/ 3	25	4/ 3	25	10/20	31	11/ 5	20	11/ 5	20	11/ 5	20	11/27	162	284	254	238	216	200	
ROCKVILLE 1 NE	97	7/23	12	1/23	2/16	14	2/16	14	3/12	24	4/ 3	28	4/ 3	28	10/21	30	11/ 4	26	11/ 5	24	11/ 6	20	NONE			263	238	215	201	
TOWSON					MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG							
UNIONVILLE	101	7/23	8	12/20	3/12	16	4/ 3	20	4/ 3	20	4/ 4	27	4/23	31	10/ 8	30	10/20	28	10/30	22	11/ 5	16	11/ 5	16	238	212	210	199	168	
WESTMINSTER POLICE BRK	101	7/23	11	12/19	2/17	15	3/31	20	3/31	20	3/31	20	4/ 3	31	10/21	32	11/ 5	24	12/ 5	19	12/19	14	11/ 5	14	11/ 5	142	372	332	217	214
WOODSTOCK	101	7/23	9	1/23	2/16	14	2/24	19	3/12	24	4/ 3	25	4/ 4	31	10/14	32	10/21	28	11/ 5	22	11/ 6	18	11/27	162	284	255	238	201	193	
APPALACHIAN MOUNTAIN 07																														
CUMBERLAND 2	101	7/23	8	1/23	2/17	11	2/17	11	3/15	24	4/ 2	26	4/ 2	26	10/ 7	31	10/20	28	11/ 4	17	11/ 4	17	11/26	152	282	260	234	201	188	
FROSTBURG 2	90	8/31	2	2/17	3/13	14	3/17	20	4/ 1	21	4/ 4	26	4/13	31	10/14	32	11/ 4	21	11/ 4	21	11/ 5	14	11/ 5	14	11/ 5	142	372	332	217	214
HAGERSTOWN			11	1/23	2/17	15	3/12	20	3/13	23	4/ 3	26	4/ 4	31	10/21	31	10/30	28	11/ 5	20	11/ 5	20	12/19	143	305	238	237	210	200	
HANCOCK	102	7/24	6	12/20	2/17	11	3/17	20	4/ 3																					

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

MARYLAND AND
DELAWARE
1991

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.					
ALLEGHENY PLATEAU 08	90	8/31	0	2/17	3/13	10	4/1	20	4/1	20	4/13	28	4/23	32	10/8	32	11/3	28	11/4	16	11/4	16	11/4	16	236	217	217	204	168
MC HENRY 2 NW	90	8/3	12	1/23	3/31	15	4/3	18	4/3	18	4/12	28	4/25	30	9/21	30	10/8	28	10/14	22	11/4	19	11/5	72	192	151	194	179	149
OAKLAND 1 SE	90	8/31	2	1/24	3/13	16	3/16	20	4/3	24	4/4	27	4/13	31	10/8	29	10/21	25	11/4	23	11/5	13	11/5	132	372	234	215	200	178
SAVAGE RIVER DAM	94	8/31	2	1/24	3/13	16	3/16	20	4/3	24	4/4	27	4/13	31	10/8	29	10/21	25	11/4	23	11/5	13	11/5	132	372	234	215	200	178
DELAWARE																													
NORTHERN 01																													
NEWARK UNIVERSITY FARM	101	7/23	10	12/19	2/16	15	2/24	20	3/12	24	4/3	27	4/4	31	10/21	29	11/5	26	11/6	20	11/6	20	12/19	10	306	255	239	216	200
WILMINGTON WSO ARPT	R 99	7/23	13	1/22	1/26	15	2/17	19	3/12	24	3/31	27	4/3	29	10/21	32	11/5	28	11/6	24	12/19	17	NONE						
WILMINGTON PORTER RSVR	98	7/23	13	1/22	2/16	16	2/16	16	3/12	23	3/13	28	4/1	32	11/4	30	11/5	27	11/27	24	12/18	20	12/19	16	306	305	260	237	217
SOUTHERN 02																													
DOVER	100	7/23	11	1/23	2/16	12	2/17	18	2/24	22	3/16	28	4/3	30	10/21	32	11/5	27	11/6	23	11/27	20	12/19	16	306	283	255	234	201
GEORGETOWN 5 SW	99	7/22	9	1/23	2/16	14	2/17	19	2/28	22	4/4	27	4/4	27	10/21	30	11/5	27	11/6	20	11/6	20	12/20	15	307	262	251	215	200
GREENWOOD 2 NE	97	7/23	10	1/23	2/17	16	2/24	20	3/13	24	4/3	27	4/4	29	10/21	30	11/5	25	11/6	21	11/27	18	12/19	16	305	276	238	216	200
LENES	98	7/23	15	1/23	1/23	15	2/16	18	2/17	21	3/12	27	3/17	30	11/5	28	11/5	28	12/19	19	12/19	19	NONE						
MILFORD 4 SE					2/17	16	2/17	16	2/17	16	MSG		MSG		MSG		MSG		MSG		MSG		MSG						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL COOLING DEGREE DAYS
BASE=65 DEGREES FAHRENHEIT

MARYLAND AND
DELAWARE
1991

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	0	5	12	111	215	343	B 361	169	49	0	0	B 1265	1423
CRISFIELD SOMERS COVE	0	0	-	-	-	-	-	-	-	-	-	-	-	1063
PRINCESS ANNE	0	0	7	35	196	246	395	B 310	170	14	2	0	B 1375	1200
SALISBURY	0	0	9	51	233	310	459	401	183	23	5	0	1674	1074
SALISBURY FAA ARPT	0	0	2	25	177	245	401	356	141	19	7	0	1373	1058
SNOW HILL 4 N	0	0	8	43	232	273	432	389	179	22	4	0	1582	
CENTRAL EASTERN SHORE 02														
CAMBRIDGE WATER TRMT P	0	0	8	39	245	315	-	-	-	-	-	-	-	1167
ROYAL OAK 2 SSW	0	0	6	27	220	309	471	402	179	30	2	0	1646	1286
VIENNA	0	B 0	4	14	145	284	400	322	131	13	1	0	B 1314	1245
LOWER SOUTHERN 03														
LA PLATA 1 W	0	1	10	50	192	229	414	335	167	23	5	0	1426	1071
MECHANICSVILLE 5 NE	0	1	10	47	200	239	417	346	159	15	6	0	1440	1116
OWINGS FERRY LANDING	0	0	6	42	198	258	426	352	163	19	4	0	1468	
TALL TIMBERS	-	-	-	-	-	-	-	-	-	-	-	-	-	
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	0	0	8	34	240	317	500	421	-	32	1	0	-	1138
BALTIMORE WSO ARPT	0	0	2	24	233	303	462	402	177	29	2	0	1634	917
BELTSVILLE	0	0	0	21	196	257	437	359	166	28	4	0	1468	1203
COLLEGE PARK	0	0	0	42	262	312	491	454	213	34	10	1	1819	1209
DALECARLIA RESVR DC	0	-	-	-	-	-	-	-	-	-	-	-	-	1008
GLENN DALE BELL STN	0	0	5	31	190	259	435	364	161	21	6	0	1472	1220
LAUREL 3 W	0	0	2	37	257	294	452	424	166	30	1	0	1663	1311
NATIONAL ARBORETUM DC	0	0	1	45	250	326	480	437	200	37	8	1	1785	
UPPER MARLBORO 3 NNW	0	0	0	30	198	241	410	334	151	18	10	0	1392	
NORTHERN EASTERN SHORE 05														
CHESTERTOWN	0	0	1	25	219	287	409	410	154	30	3	0	1538	1158
MILLINGTON 1 SE	0	0	3	19	185	254	386	344	146	27	4	0	1368	1011
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FLD	0	B 0	-	27	B 228	-	B 414	381	-	B 32	-	B 0	-	1545
BALTIMORE WSO CITY	0	0	5	65	304	436	569	542	249	57	6	0	2233	944
BENSON POLICE BARRACKS	0	0	0	43	253	340	457	421	186	29	0	0	1729	
BOYDS 2 NW	0	0	-	-	-	-	-	-	-	-	-	-	-	
CATOCTIN MOUNTAIN PARK	0	0	0	19	154	184	298	264	-	-	-	0	-	
CLARKSVILLE 3 NNE	0	0	1	19	187	232	405	332	138	11	4	0	1329	
CONOWINGO DAM	0	0	0	8	165	274	386	346	116	14	-	0	-	928
DAMASCUS 2 SW	0	0	3	33	192	225	377	357	137	24	1	0	1349	
EMMITTSBURG 2 SE	0	0	0	16	150	224	401	339	124	14	0	0	1268	
FREDERICK POLICE BRKS	-	-	2	37	247	330	495	437	179	30	3	0	-	
MILLERS 4 NE	0	0	0	22	168	221	371	319	105	17	0	0	1223	
ROCKVILLE 1 NE	0	0	0	28	225	262	408	373	147	27	2	0	1472	1063
TOWSON	-	-	-	-	227	294	432	-	-	-	-	-	-	
UNIONVILLE	0	0	1	17	161	202	385	314	115	15	0	0	1210	759
WESTMINSTER POLICE BRK	0	0	0	38	209	293	434	408	157	22	3	0	1564	841
WOODSTOCK	0	0	2	33	211	265	435	384	158	24	2	0	1514	896
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	0	0	0	23	192	253	417	352	156	21	0	0	1414	902
FROSTBURG 2	0	0	0	4	96	95	202	166	64	3	0	0	630	
HAGERSTOWN	0	0	0	13	197	280	-	345	145	24	0	0	-	935
HANCOCK	0	0	0	16	165	216	392	299	129	13	0	0	1230	692

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL COOLING DEGREE DAYS
BASE=65 DEGREES FAHRENHEIT

MARYLAND AND
DELAWARE
1991

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
ALLEGHENY PLATEAU . 08	0	0	0	6	97	109	189	141	56	0	0	0	598	
MC HENRY 2 NW	0	0	0	0	72	90	186	123	54	0	0	0	525	276
OAKLAND 1 SE	0	0	0	1	103	116	233	195	84	2	0	0	734	417
SAVAGE RIVER DAM														
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM	0	0	0	24	200	283	401	369	150	21	1	0	1449	1003
WILMINGTON WSO ARPT	0	0	1	18	197	271	390	371	135	23	2	0	1408	1015
WILMINGTON PORTER RSVR	0	0	1	22	196	266	368	365	129	22	4	0	1373	901
SOUTHERN 02														
DOVER	0	0	3	22	236	305	430	389	181	28	9	0	1603	1179
GEORGETOWN 5 SW	0	0	0	14	172	256	393	330	140	14	4	1	1324	1050
GREENWOOD 2 NE	0	0	5	21	182	226	356	320	127	20	6	0	1263	
LEWES	0	0	5	40	226	298	444	414	180	30	9	0	1646	946
MILFORD 4 SE	0	0	7	-	-	-	-	-	-	-	-	-	-	1101

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL EVAPORATION AND WIND MOVEMENT

MARYLAND AND
DELAWARE
1991

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MARYLAND														
UPPER SOUTHERN BELTSVILLE 04	WIND	-	-	-	B 1424	908	987	858	749	1018	1128	-	-	-
	EVAP	-	-	-	B 4.07	6.69	B 6.77	7.17	6.14	4.80	3.38	-	-	-
	MAX TEMP	-	-	-	M 70.5	88.7	M 89.9	94.0	92.7	M 84.4	M 71.9	-	-	M -
	MIN TEMP	-	-	-	M 47.0	61.1	M 64.2	70.2	M 67.7	M 59.5	M 48.2	-	-	M -
UPPER MARLBORO 3 NNW	WIND	-	-	-	B 363	215	165	103	49	133	209	327	-	-
	EVAP	-	-	-	B 4.34	6.26	5.64	-	5.15	4.08	2.96	1.63	-	-
	MAX TEMP	-	-	-	67.3	85.1	M 87.1	M -	91.2	82.0	M 70.2	54.3	-	M -
	MIN TEMP	-	-	-	46.5	62.0	M 65.2	M -	68.5	58.9	M 47.0	40.0	-	M -
ALLEGHENY PLATEAU 08														
SAVAGE RIVER DAM	WIND	-	-	-	B 1607	1089	865	794	825	792	926	-	-	-
	EVAP	-	-	-	-	B 4.81	B 4.90	B 4.98	4.99	3.61	B 2.32	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM	WIND	-	-	-	1546	986	868	-	839	539	812	1083	-	-
	EVAP	-	-	-	-	B 6.86	B 7.16	-	B 6.71	B 4.91	B 2.89	1.47	-	-
	MAX TEMP	-	-	-	-	-	-	M 26.9	-	-	-	-	-	M -
	MIN TEMP	-	-	-	-	-	-	M -	-	-	-	-	-	-
SOUTHERN 02														
GEORGETOWN 5 SW	WIND	-	-	-	2524	2172	1715	1543	1430	-	-	-	-	-
	EVAP	-	-	-	B 6.26	B 7.61	B 8.00	B 8.61	B 6.68	-	-	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
1991

STATION	INDEX NO.	DIVISION NO.	COUNTY	LATITUDE	LONGITUDE	ELEVATION FEET	YEARS OF RECORD			OPENED OR CLOSED DURING YR		SEE REFERENCE NOTES
							TEMP.	PRECIP.	EVAP.	MONTH OPENED	MONTH CLOSED	
MARYLAND												
ABERDEEN PHILLIPS FLD	0015	06	HARFORD	39 28	76 10W	57	66	66	0			C H
ANNAPOLIS POLICE BRKS	0193	04	ANNE ARUNDEL	38 59	76 30W	30	33	33	0			H H
ASSATEAGUE IS NATL SEA	0335	01	WORCESTER	38 14	75 8W	7	24	24	0			H H
BALTIMORE WSO ARPT	0465	04	ANNE ARUNDEL	39 11	76 40W	148	57	57	0			C H J
BALTIMORE WSO CITY #	0470	06	BALTIMORE CI	39 17	76 37W	14	121	121	0			C C
BELTSVILLE	0700	04	PRINCE GEORG	39 2	76 53W	120	54	54	5 1			H
BENSON POLICE BARRACKS	0732	06	HARFORD	39 30	76 23W	365	44	44	0			H
BOYDS 2 NW	1032	06	MONTGOMERY	39 13	77 20W	580	39	39	0			
CAMBRIDGE WATER TRMT P	1385	02	DORCHESTER	38 34	76 4W	10	97	97	0			H
CATOCTIN MOUNTAIN PARK	1530	06	FREDERICK	39 39	77 29W	1610	25	25	0			C H
CHESTERTOWN	1750	05	KENT	39 13	76 4W	39	86	86	0			H H
CLARKSVILLE 3 NNE	1862	06	HOWARD	39 15	76 56W	365	25	25	0			H
COLLEGE PARK	1995	04	PRINCE GEORG	38 59	76 57W	90	105	105	0			C H
CONOWINGO DAM	2060	06	HARFORD	39 39	76 10W	39	56	56	0			
CRISFIELD SOMERS COVE	2215	01	SOMERSET	37 59	75 52W	8	29	29	0			
CUMBERLAND 2	2282	07	ALLEGANY	39 38	78 45W	730	19	19	0			H
DALECARLIA RESVR DC	2325	04	DIS COLUMBIA	38 56	77 7W	151	46	46	0			
DAMASCUS 2 SW	2335	06	MONTGOMERY	39 16	77 14W	722	19	19	0			H
DENTON 2 E	2523	02	CAROLINE	38 53	75 48W	49	40	40	0			H
EDGEMONT	2770	07	WASHINGTON	39 40	77 33W	905	0	53	0			
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 18W	420	36	36	0			H
FREDERICK POLICE BRKS	3348	06	FREDERICK	39 25	77 26W	381	19	19	0			H
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2172	20	20	0			H
GLENN DALE BELL STN	3675	04	PRINCE GEORG	38 58	76 48W	151	71	71	0			H
HAGERSTOWN	3975	07	WASHINGTON	39 39	77 44W	659	50	50	0			H
HANCOCK	4030	07	WASHINGTON	39 42	78 11W	428	58	58	0			C H
LA PLATA 1 W	5080	03	CHARLES	38 32	77 0W	140	77	77	0			H
LAUREL 3 W	5111	04	PRINCE GEORG	39 6	76 54W	400	101	101	0			
MC HENRY 2 NW	5832	08	GARRETT	39 35	79 22W	2680	21	21	0			C H
MECHANICSVILLE 5 NE	5865	03	ST MARYS	38 27	76 41W	100	30	30	0			H H
MERRILL	5894	08	GARRETT	39 36	79 5W	1791	0	40	0			C H
MILLERS 4 NE	5934	06	CARROLL	39 43	76 48W	860	5	5	0			H
MILLINGTON 1 SE	5985	05	KENT	39 16	75 52W	30	95	95	0			
NATIONAL ARBORETUM DC	6350	04	DIS COLUMBIA	38 54	76 59W	49	45	45	0			H
OAKLAND 1 SE	6620	08	GARRETT	39 24	79 24W	2421	94	94	0			H
OWINGS FERRY LANDING	6770	03	CALVERT	38 41	76 40W	160	75	75	0			H
POTOMAC FILTER PLANT	7272	06	MONTGOMERY	39 2	77 15W	269	0	30	0			
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	43	43	0			
ROCKVILLE 1 NE	7705	06	MONTGOMERY	39 6	77 6W	440	44	44	0			H
ROYAL OAK 2 SSW	7806	02	TALBOT	38 43	76 11W	10	44	44	0			H
SALISBURY	8000	01	WICOMICO	38 22	75 35W	10	85	85	0			
SALISBURY FAA ARPT #	8005	01	WICOMICO	38 20	75 31W	48	44	44	0			H
SAVAGE RIVER DAM	8065	08	GARRETT	39 31	79 8W	1495	41	44	4 1			C H
SNOW HILL 4 N	8380	01	WORCESTER	38 14	75 23W	30	76	76	0			H
TALL TIMBERS	8757	03	ST MARYS	38 10	76 33W	12	4	4	0			H
TOWSON	8877	06	BALTIMORE	39 23	76 34W	390	54	79	0			
UNIONVILLE	9030	06	FREDERICK	39 27	77 11W	430	52	50	0			C
UPPER MARLBORO 3 NNW	9070	04	PRINCE GEORG	38 52	76 47W	98	36	36	3 6			H
VIENNA	9140	02	DORCHESTER	38 29	75 50W	10	43	43	0			
WESTMINSTER POLICE BRK	9440	06	CARROLL	39 33	76 58W	765	13	13	0			H
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52W	459	22	122	0			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

MARYLAND AND
DELAWARE
1991

1991

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	104	103	0			H
GEORGETOWN 5 SW	3570	02	SUSSEX	38 38	75 27 W	45	46	46	38			C H
GREENWOOD 2 NE	3595	02	SUSSEX	38 50	75 35 W	45	7	7	0			H
LEWES	5320	02	SUSSEX	38 46	75 8 W	15	48	48	0			H
MILFORD 4 SE	5915	02	SUSSEX	38 54	75 28 W	30	96	96	00			H
NEWARK UNIVERSITY FARM	6410	01	NEW CASTLE	39 40	75 44 W	90	79	79	35			C H
WILMINGTON WSO ARPT	9595	01	NEW CASTLE	39 40	75 36 W	79	44	44	00			C H J
WILMINGTON PORTER RSVR	9605	01	NEW CASTLE	39 46	75 32 W	274	80	80	0			H

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

MARYLAND AND
DELAWARE
1991

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

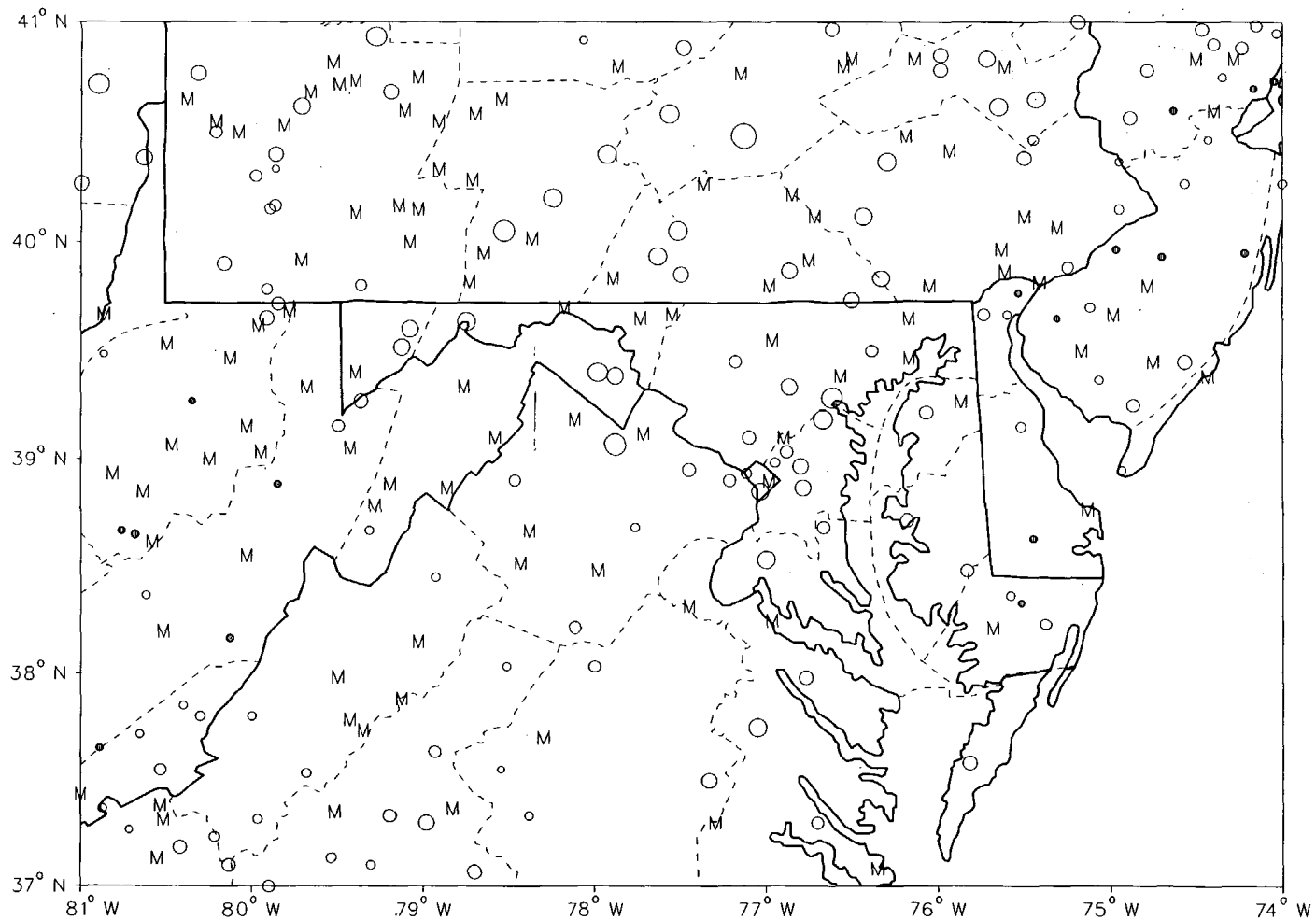
CUMULATIVE ANNUAL PRECIPITATION DEPARTURE FROM INDIVIDUAL STATION NORMALS (1951-1980) FOR 1991 DELAWARE

M INCOMPLETE DATA FOR THE PERIOD

▽ EXACTLY NORMAL

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

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

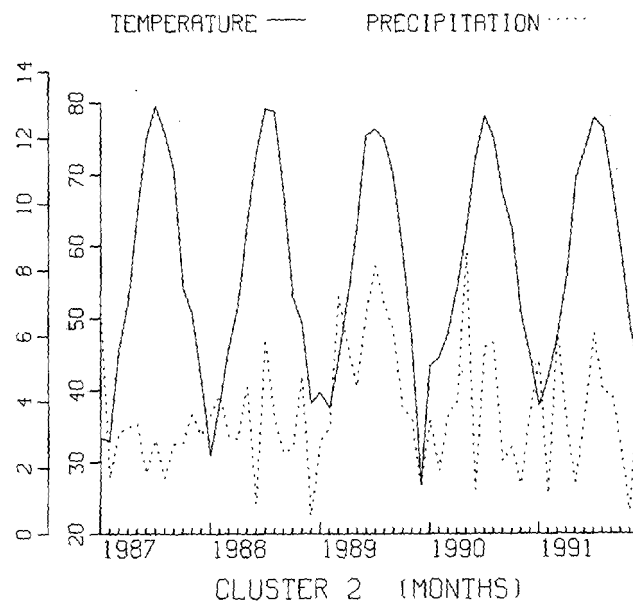
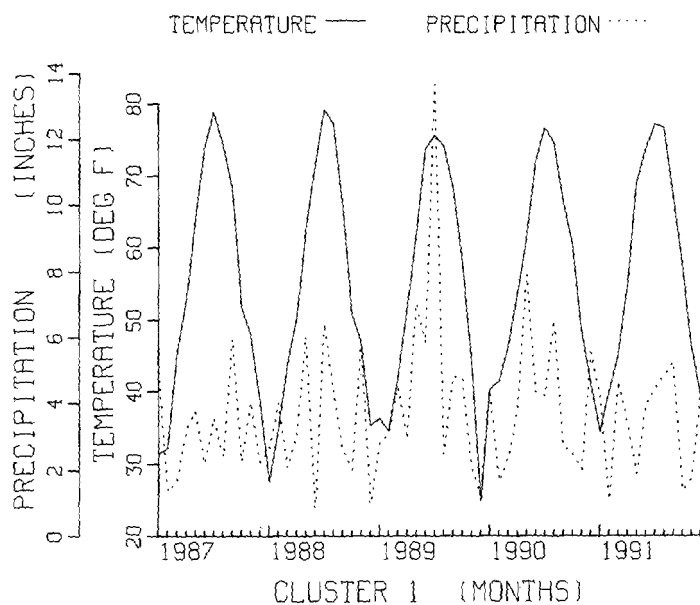


CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

MONTHLY TEMPERATURE AND PRECIPITATION FOR THE LAST 60 MONTHS ENDING DECEMBER 1991 DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



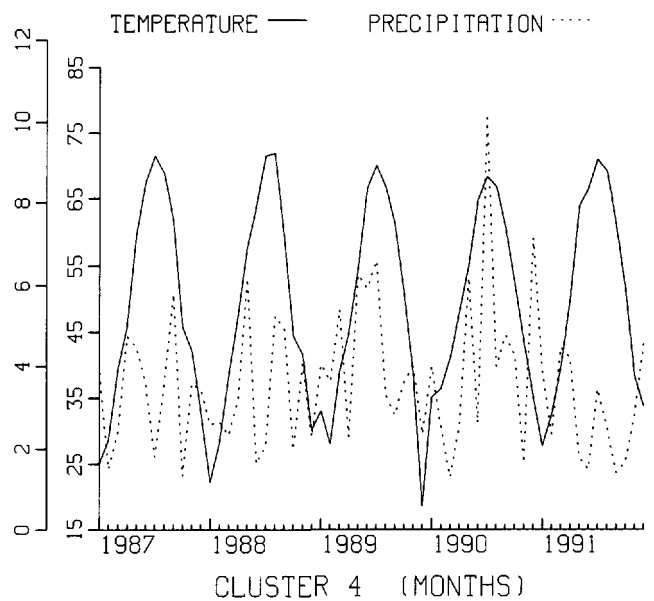
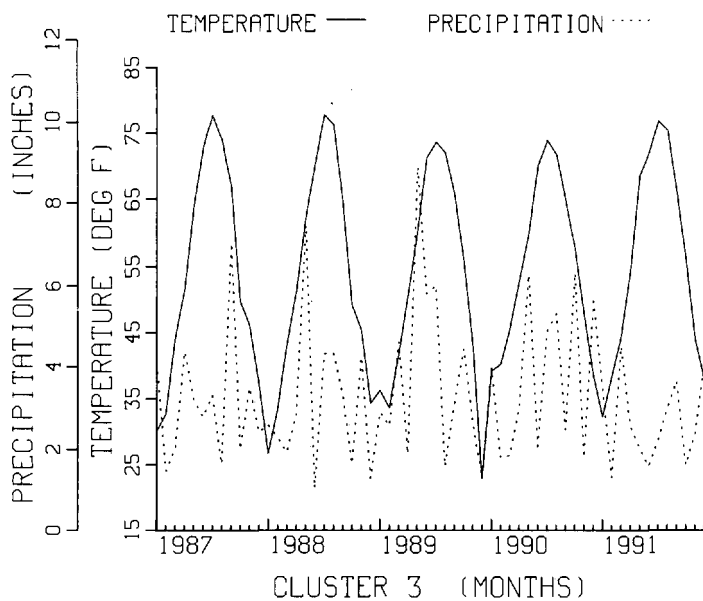
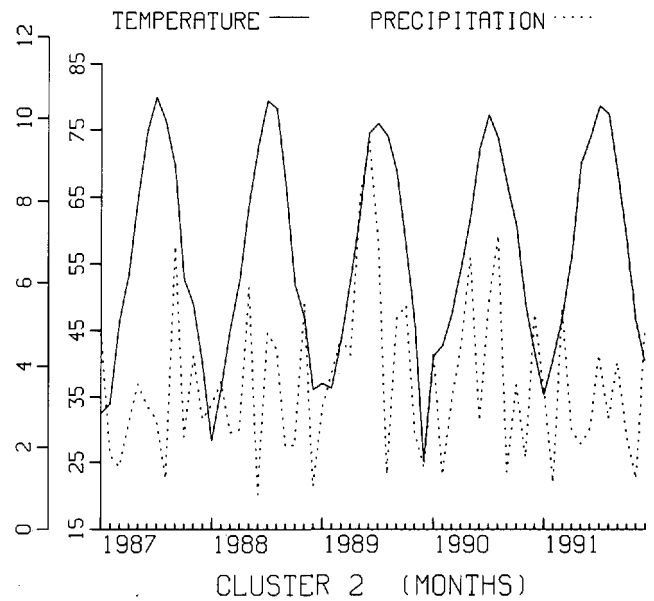
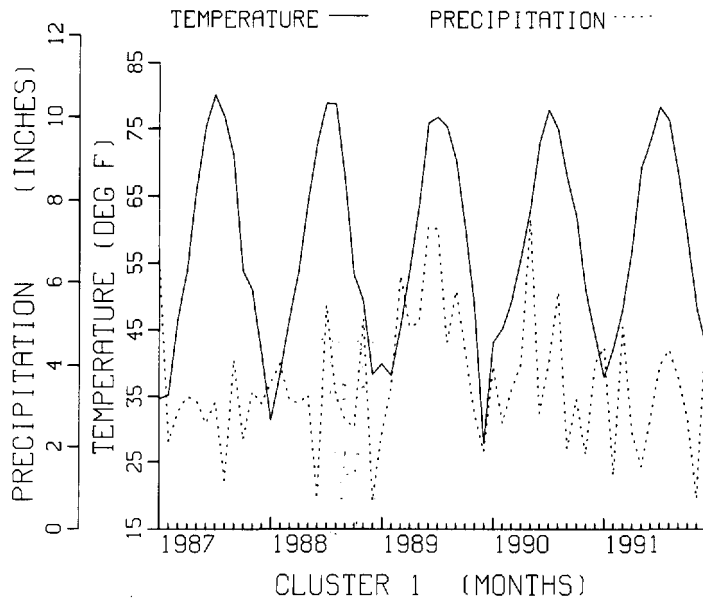
MONTHLY TEMPERATURE AND PRECIPITATION FOR THE LAST 60 MONTHS ENDING DECEMBER 1991 MARYLAND

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

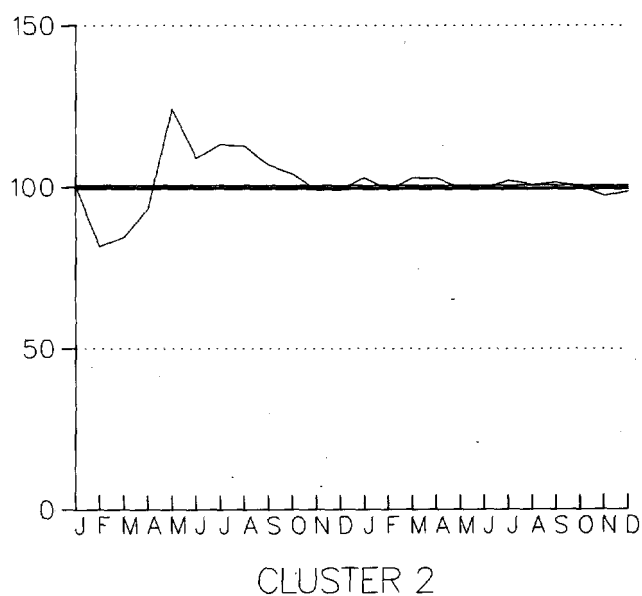
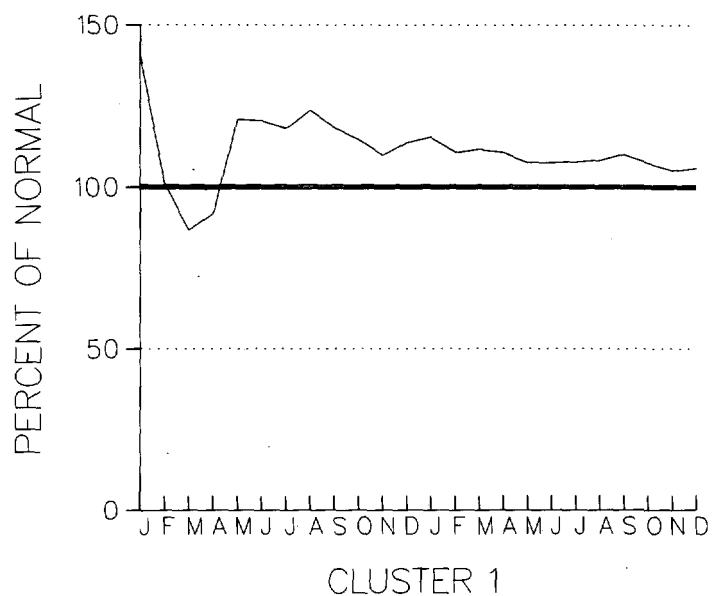
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980) FOR THE LAST 24 MONTHS ENDING DECEMBER 1991 DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



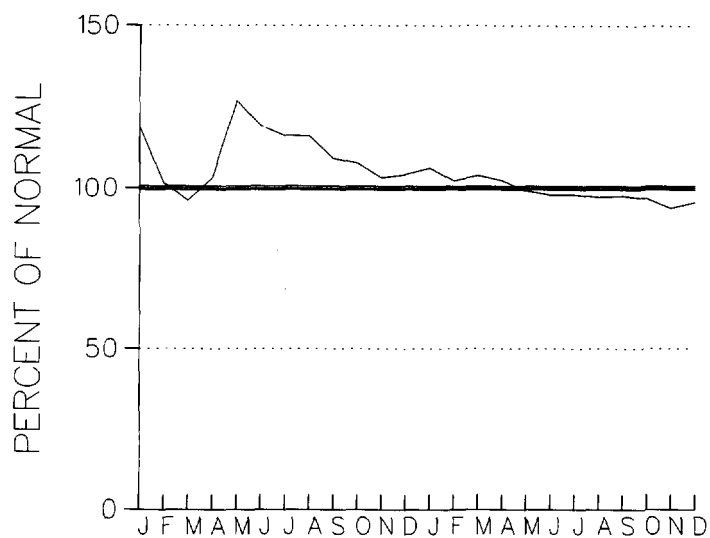
CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951-1980) FOR THE LAST 24 MONTHS ENDING DECEMBER 1991 MARYLAND

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

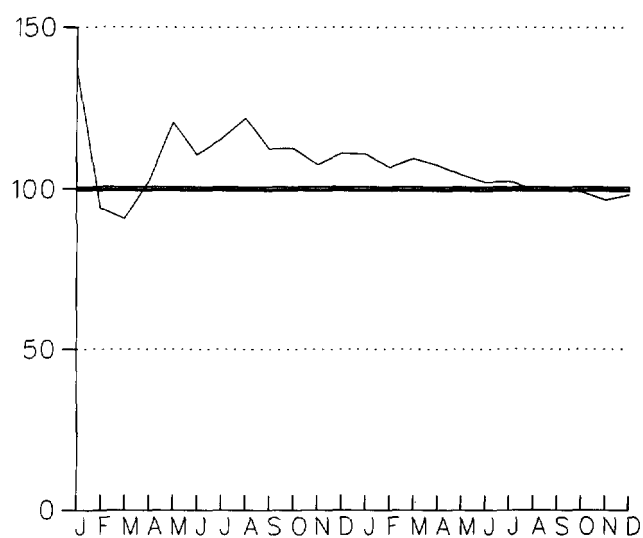
CLUSTER 2 -DIVISION(S):
UPPER SOUTHERN 04
NORTHERN EASTERN SHORE 05

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

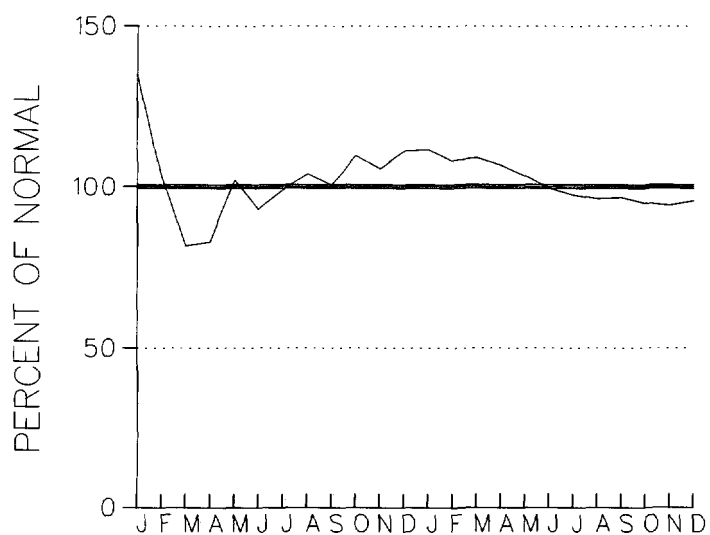
CLUSTER 4 -DIVISION(S):
ALLEGHENY PLATEAU 08



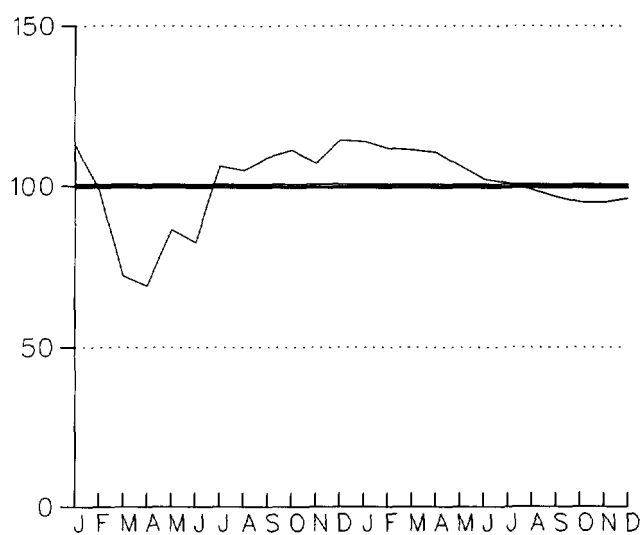
CLUSTER 1



CLUSTER 2



CLUSTER 3

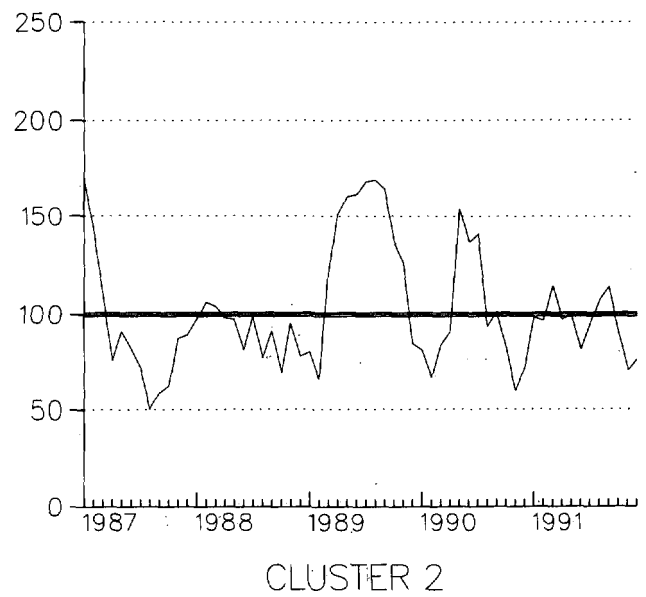
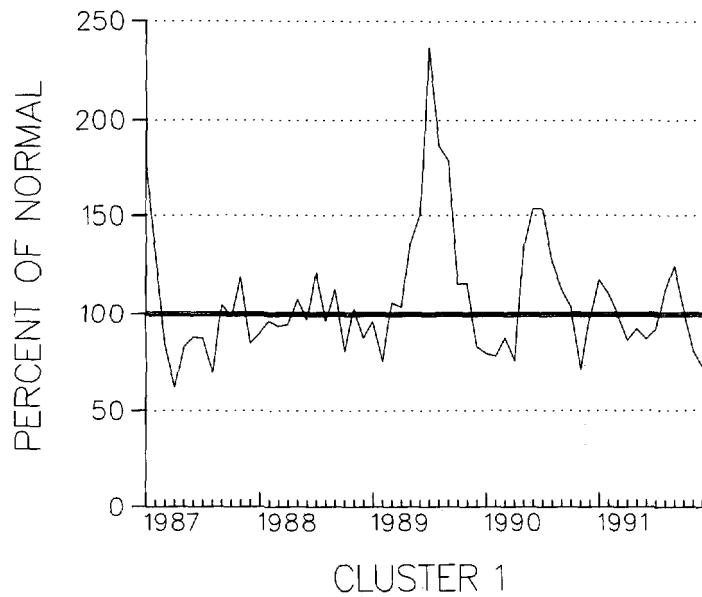


CLUSTER 4

PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
THREE MONTH RUNNING MEAN
FOR THE 60 MONTHS ENDING WITH DECEMBER 1991 DATA
DELAWARE

CLUSTER 1 -DIVISION(S):
NORTHERN 01

CLUSTER 2 -DIVISION(S):
SOUTHERN 02



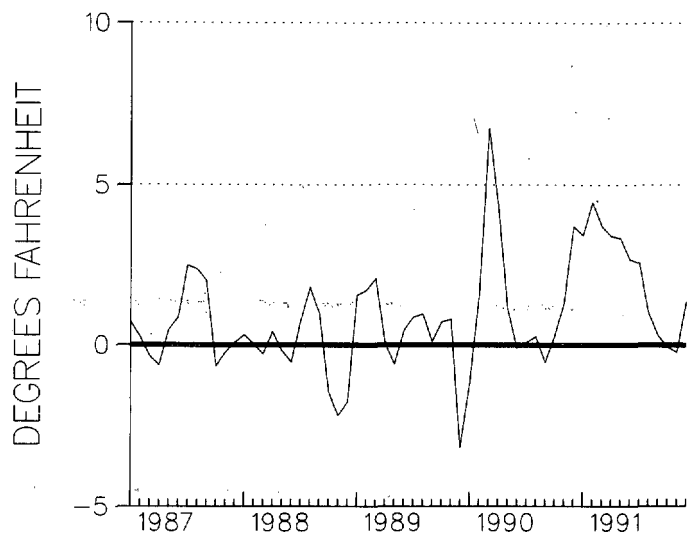
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980) THREE MONTH RUNNING MEAN FOR THE 60 MONTHS ENDING WITH DECEMBER 1991 DATA MARYLAND

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

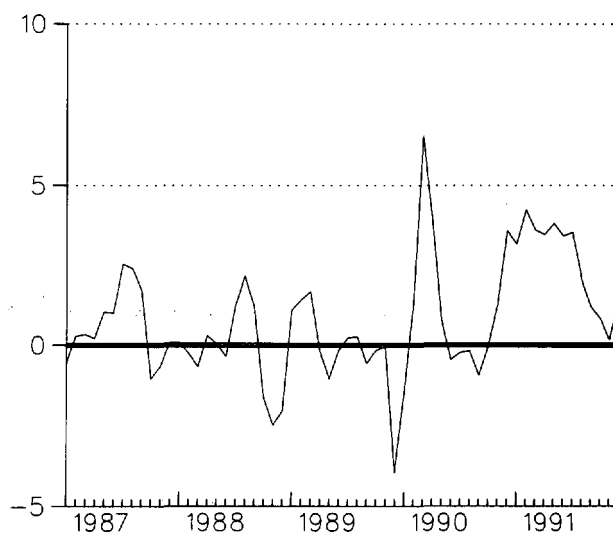
CLUSTER 2 -DIVISION(S):
 UPPER SOUTHERN 04
 NORTHERN EASTERN SHORE 05

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

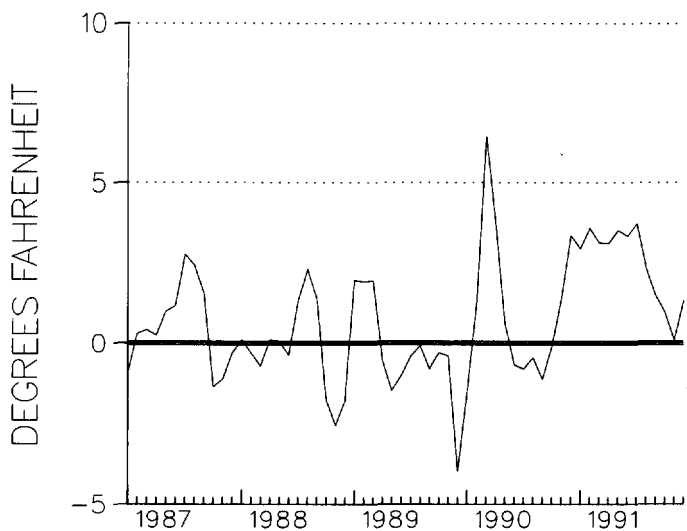
CLUSTER 4 -DIVISION(S):
 ALLEGHENY PLATEAU 08



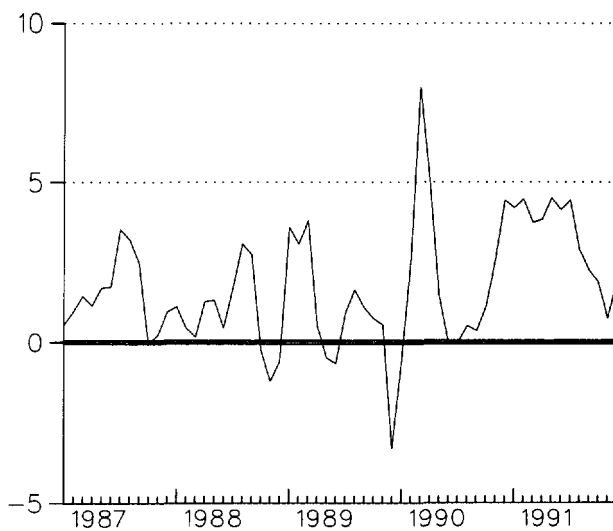
CLUSTER 1



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
0 5 10 20 30 40 50

STATION LEGEND
DATA PUBLISHED IN:
● CLIMATOLOGICAL DATA
■ HOURLY PRECIPITATION DATA
△ CLIMATOLOGICAL DATA AND HOURLY PRECIPITATION DATA

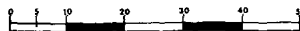
For further information, refer to the station index and references notes.

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

The map displays the state of Maryland and the District of Columbia, divided into 18 numbered regions. Various weather stations are marked with symbols: solid circles for climatological data, solid squares for hourly precipitation data, and solid triangles for both climatological and hourly precipitation data. The map includes a scale bar for statute miles (0 to 50) and a projection note: 'ALBERS EQUAL AREA PROJECTION, STANDARD PARALLELS AT 29.5 AND 45.5 DEGS.'. The map is framed by latitude and longitude coordinates: 80.0, 79.0, 78.0, 77.0, 76.0, 75.0 longitude and 38.0, 39.0, 40.0 latitude.

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

STATUTE MILES



STATION LEGEND

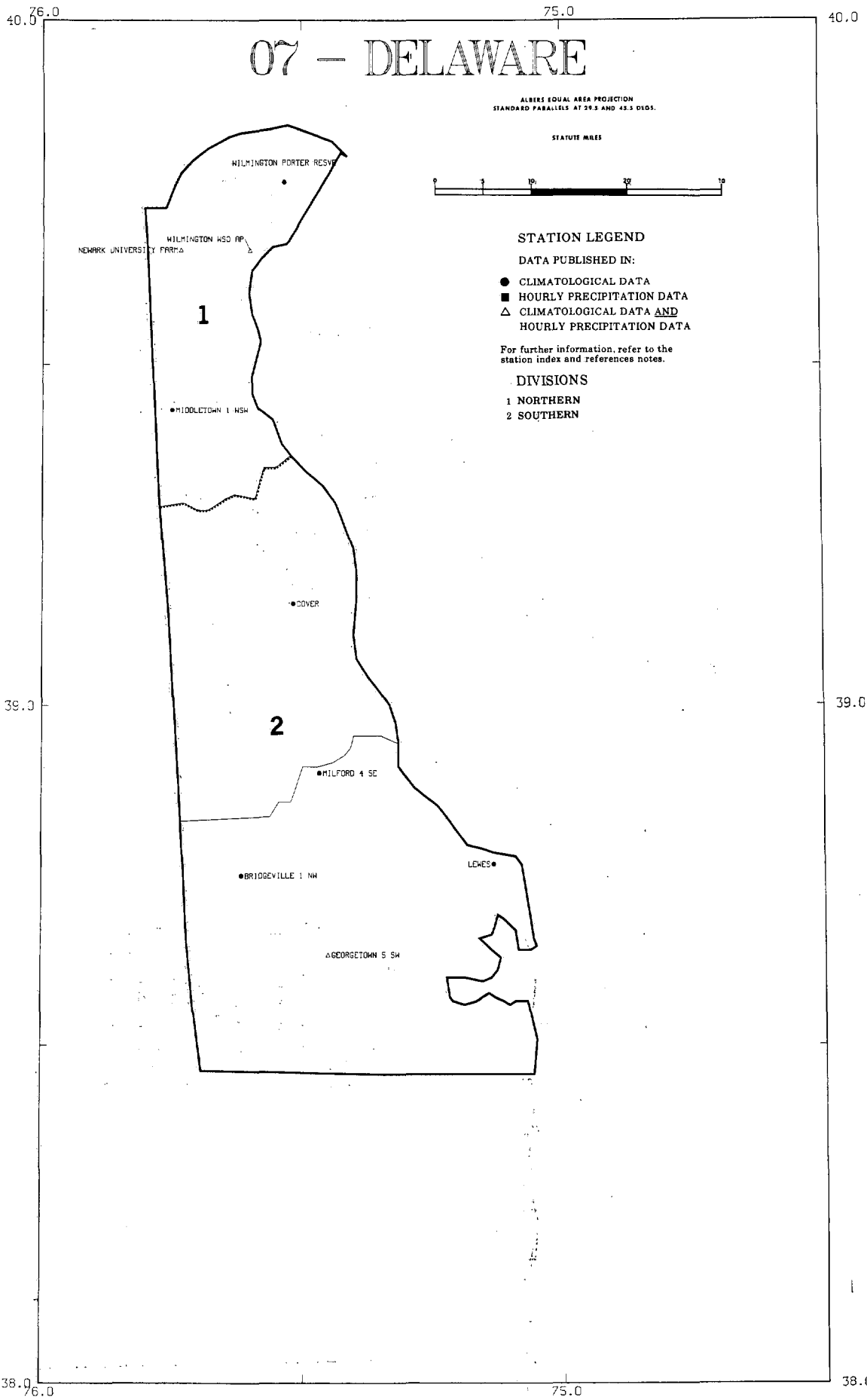
DATA PUBLISHED IN:

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

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

DIVISIONS

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



MONTHLY PRECIPITATION TOTALS												ANNUAL 1987 NORTH CAROLINA			
STATION	ANNUAL	MONTH										SEP	OCT	NOV	DEC
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG						
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	2.55						2.77	4.15	2.54	
ASHFORD	36.74E	1.20	2.70	2.90	0.54E							3.80	4.90	4.80	
BADIN	-	1.70	1.50	2.60	1.20							2.40	4.10	2.90	
B EVERETT JORDAN DAM	-			3.60									1.70		
BODMER 5 WSO	-	1.00	2.10												
BURLINGTON 3 WNE	-	0.80	1.92E												
CAPE HATTERAS WSO	48.86	5.75													
CARTHAGE 8 SE	-	1.70													
CATALDOCHEE	-	0.60													
CHARLOTTE WSO AP	26.91														
CLINTON 2 NE	35														
DALTON															
DOBSON															
EDEN															
ELK															
ELK CITY															
FAYE															
FRANK															
GREENS															
GREENVILLE															
HELIOS															
HOBBS															
LAKE LURE															
LAKESIDE															
LEXINGTON															
MOORESVILLE 2															
MOREHEAD CITY															
MOUNT PLEASANT															
N WILKESBORO 12															
POLKTON 2 NE															
QUEBEC															
RALPH-DURHAM WSO															
ROANOKE RAPIDS															
ROARING GAP 1 NW															
SHELBY 2															
SNEADS FERRY 2 ENE															
SUNNYSIDE 2 SSE															
WILMINGTON WSO AP															
WILSON 3 SW															
YADKINVILLE 6 E	28														

ISSN 0364-6319

**HOURLY
PRECIPITATION DATA**

NORTH CAROLINA

DECEMBER 1987

WITH ANNUAL SUPPLEMENT

VOLUME 37 NUMBER 12

NORTH CAROLINA

91.0 90.0 79.0 77.0 76.0 75.0

WILKES-BARRE
POCONO
LEHIGH
CATSKILL
Hudson River
Delaware River
Susquehanna River
Chesapeake Bay
Atlantic Ocean

HOURLY PRECIPITATION DATA NORTH CAROLINA

DECEMBER 1987
WITH ANNUAL SUPPLEMENT
VOLUME 37 NUMBER 12

A WORLD OF CLIMATIC
INFORMATION FOR

- * Attorneys
- * Colleges & Universities
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- * Energy

ISSN 0364-6319

HOURLY PRECIPITATION DATA

NORTH CAROLINA

JANUARY 1987

VOLUME 37 NUMBER 1



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

SHELF STOCK of the printed publication is maintained only for the most recent 3 years. Earlier years are available on microfiche or paper copies reproduced from microfiche. The data is also available in digital form - on magnetic tape or floppy disk.

For further information,
call or write to the

NATIONAL CLIMATIC DATA CENTER

Federal Building, Asheville, N. C. 28801-2696

Phone (704) 259-0682 or (704) CLIMATE

noaa

NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

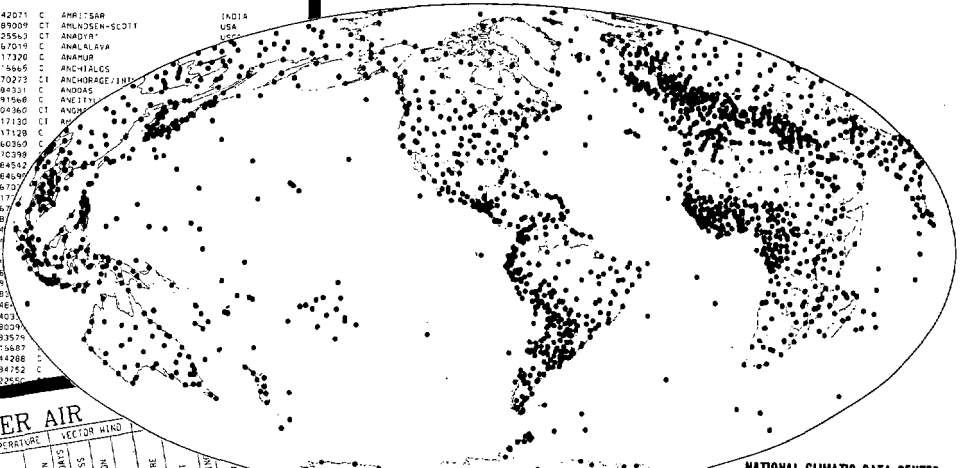
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ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

CLIMATIC DATA STATIONS - WORLDWIDE

STATION LIST WMO PUB 9 VOL A

41246 C	ISGHARI MAJ'S	OMAN	42071 C	AMRITSAR	INDIA
40831 C	ABADAN	IRAN, ISLAMIC REP	89009 CT	AMUNDSEN-SCOTT	USA
67405 C	ABASHIRE	JAPAN	25543 CT	ANADIR	
71108 C	ABBOTSFORD, B. C.	CANADA	67019 C	ANALALISVA	
54758 C	ABECHE	CHAD	17320 C	ANAMUR	
03091 C	ABERDEEN/C"CE	U. K. WINDOOP	76665 C	ANCHALICS	
41112 C	ABHA	SALDI ARABIA	70273 CT	ANCHORAGE/INTL	
55578 CT	ABIDJAN	COTE D'IVOIRE	84331 C	ANDAS	
72246 C	ABILENE, TX	USA	91568 C	ANEITI	
41216 C	ABU DHABI BATEEN AIRPORT	U. ARAB EMIRATES	04360 CT	ANDRI	
41213 CT	ABU DHABI INTL AIRPORT	U. ARAB EMIRATES	17130 CT	ANDRI	
62640 C	ABU HANE	SUDAN	11128 C		
62795 C	ABU NA'AMA	SUDAN	60369 C		
76650 C	ACAJUTLA	EL SALVADOR	70398 C		
76605 C	ACAPULCO, GRO.	MEXICO	64542 C		
60427 C	ACARIGUA	VENEZUELA	64607 CT		
17352 CT	ADANA	TURKEY	670 C		
67450 CT	ADDIS ABABA	ETHIOPIA	177 C		
94572 CT	ADLAIDE AIRPORT	AUSTRALIA	67 C		
41467 C	ADEN, HORMAKSAR	YEMEN	8 C		
65995 C	ADRIANE	COTE D'IVOIRE	8 C		
60620 C	ADRAR	ALGERIA	8 C		
76679 CT	AEROP. INTL MEXICO, D. F.	MEXICO	8 C		
76644 CT	AEROP. INTL MERIDA, YUC.	MEXICO	8 C		
76394 CT	AEROP. INTL, MONTERREY, N.	MEXICO	8 C		
87482 C	AEROPARQUE	ARGENTINA	8 C		
17190 C	AFTON	TURKEY	8 C		
61024 C	AGADEZ	ALGERIA	8 C		
60250 C	AGADIR	MOROCCO	8 C		
61974 C	AGALEGA	MAURITIUS	8 C		
62651 C	AGRA	INDIA	8 C		
16672 C	AGRINICION (AIRPORT)	GREECE	15687 C		
42647 CT	AHMADEABAD	INDIA	42688 C		
60560 C	AHM SETHA	ALGERIA	84762 C		
67499 C	AIDOUN EL ATRUSS	MAURITANIA	22550 C		
07761 CT	AJACCIO	FRANCE			
31188 C	AJMAN	U.A.E.			
17184 C	AKHISAR	TURKEY			
47582 CT	AKTIS	ALGERIA			
61432 CT					



NATIONAL CLIMATIC DATA CENTER



UPPER AIR

ASIA-JAPAN									
STATION	LEVEL	TEMPERATURE	VECTOR WIND	LEVEL	TEMPERATURE	VECTOR WIND	LEVEL	TEMPERATURE	VECTOR WIND
ASIA-JAPAN	1000	1000	1000	1000	1000	1000	1000	1000	1000
ASIA-JAPAN	850	850	850	850	850	850	850	850	850
ASIA-JAPAN	700	700	700	700	700	700	700	700	700
ASIA-JAPAN	500	500	500	500	500	500	500	500	500
ASIA-JAPAN	300	300	300	300	300	300	300	300	300
ASIA-JAPAN	200	200	200	200	200	200	200	200	200
ASIA-JAPAN	100	100	100	100	100	100	100	100	100
ASIA-JAPAN	50	50	50	50	50	50	50	50	50
ASIA-JAPAN	30	30	30	30	30	30	30	30	30
ASIA-JAPAN	20	20	20	20	20	20	20	20	20
ASIA-JAPAN	10	10	10	10	10	10	10	10	10
ASIA-JAPAN	5	5	5	5	5	5	5	5	5
ASIA-JAPAN	2	2	2	2	2	2	2	2	2
ASIA-JAPAN	1	1	1	1	1	1	1	1	1

SURFACE

EUROPE-NORWAY									
STATION	TEMPERATURE	PRECIPITATION	SUNSHINE	TEMPERATURE	PRECIPITATION	SUNSHINE	TEMPERATURE	PRECIPITATION	SUNSHINE
EUROPE-NORWAY	1000	1000	1000	1000	1000	1000	1000	1000	1000
EUROPE-NORWAY	850	850	850	850	850	850	850	850	850
EUROPE-NORWAY	700	700	700	700	700	700	700	700	700
EUROPE-NORWAY	500	500	500	500	500	500	500	500	500
EUROPE-NORWAY	300	300	300	300	300	300	300	300	300
EUROPE-NORWAY	200	200	200	200	200	200	200	200	200
EUROPE-NORWAY	100	100	100	100	100	100	100	100	100
EUROPE-NORWAY	50	50	50	50	50	50	50	50	50
EUROPE-NORWAY	30	30	30	30	30	30	30	30	30
EUROPE-NORWAY	20	20	20	20	20	20	20	20	20
EUROPE-NORWAY	10	10	10	10	10	10	10	10	10
EUROPE-NORWAY	5	5	5	5	5	5	5	5	5
EUROPE-NORWAY	2	2	2	2	2	2	2	2	2
EUROPE-NORWAY	1	1	1	1	1	1	1	1	1

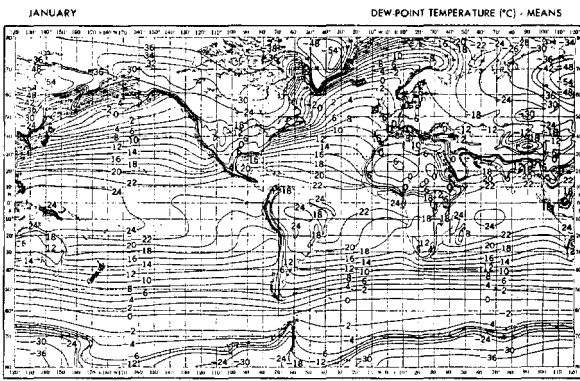
JANUARY 1988
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ISSN 0027-0296



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 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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ISSN 0364-6822

HOURLY
PRECIPITATION DATA
ARIZONA
DECEMBER
WITH ANNUAL SUPPLEMENT

155H 0145-0207

**CLIMATOLOGICAL DATA
ANNUAL SUMMARY
ARIZONA**

NUMBER 13

DEPARTMENT OF COMMERCE
WITH ANNUAL SUPPLEMENT

ISSN 0364-8084

HOURLY
PRECIPITATION DATA
ARIZONA

VOLUME 35 NUMBER

U. S. GOVERNMENT PRINTING OFFICE: 1964

ISSN 0145-0387

CLIMATOLOGICAL DATA

ARIZONA

FORM NO. 1 (Rev. 1-25-60)		LOCAL CLIMATOLOGICAL DATA Monthly Summary		FORM NO. 102
1. NAME OF STATION 2. LOCATION 3. ELEVATION (Feet) 4. DATE OF REPORT 5. NAME OF REPORTER		6. NAME OF COMMANDING OFFICER 7. NAME OF REPORTING OFFICER 8. NAME OF REPORTING OFFICER		
9. NAME OF REPORTING OFFICER 10. NAME OF REPORTING OFFICER		11. NAME OF REPORTING OFFICER 12. NAME OF REPORTING OFFICER		

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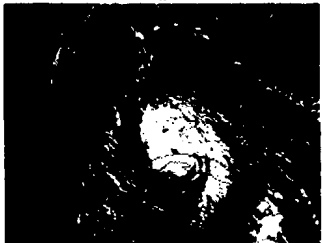
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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA
TUCSON,
ARIZONA

DATA 0100-0000

Daily Data

TEMPERATURE
(DEGREES FAHRENHEIT)

PRECIPITATION
(INCHES)

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