

CLIMATOLOGICAL DATA ANNUAL SUMMARY

MARYLAND AND
DELAWARE
1998

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TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

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	7.43		6.16		4.86		2.62		4.03		4.80	
PRINCESS ANNE	8.04	4.63	6.59	3.34	5.18	1.34	3.26	-.01	5.33	1.98	4.94	1.76
SALISBURY	8.18	4.42	7.36	3.89	4.27	.03	3.56	.26	4.50	1.00	5.20	1.55
SALISBURY FAA ARPT	8.39	4.75	6.91	3.45	4.78	.62	3.26	.06	3.85	.21	5.33	1.70
SNOW HILL 4 N	8.16	4.36	7.90	4.29	4.17	-.13	2.89	-.32	4.57	1.05	5.49	2.06
--DIVISIONAL DATA----->	8.04	4.40	6.98	3.55	4.65	.53	3.12	-.05	4.46	1.00	5.15	1.76
CENTRAL EASTERN SHORE 02												
ROYAL OAK 2 SSW	7.11	3.54	6.54	3.24	6.01	2.21	3.22	-.20	3.53	-.70	5.23	1.62
VIENNA	7.71	4.05	6.13	2.65	4.65	.88	4.36	.97	3.25	-.26	4.97	1.17
--DIVISIONAL DATA----->	7.41	3.83	6.34	3.08	5.33	1.59	3.79	.44	3.39	-.56	5.10	1.45
LOWER SOUTHERN INDIANHEAD 03												
LA PLATA 1 W	5.40	2.31	6.15	3.23	6.58	3.09	2.97	-.17	3.90	.04	7.22	3.46
MECHANICSVILLE 5 NE	7.31	3.85	7.45	4.07	6.36	2.39	4.04	.63	4.68	.56	6.68	2.62
OWINGS FERRY LANDING	7.35	4.22	7.39	4.64								
--DIVISIONAL DATA----->	6.69	3.41	7.00	3.96	6.35	2.66	3.51	.32	4.29	.21	6.95	3.23
UPPER SOUTHERN 04												
ANNAPOLIS POLICE BRKS	6.71	3.46	6.62	3.44	7.50	3.87	3.88	.48	3.74	-.32	3.96	.61
BALTIMORE WSO ARPT R	5.65	2.60	6.40	3.28	5.56	2.18	3.02	-.07	3.46	-.26	3.22	-.45
BELTSVILLE	5.10	2.23	4.49	1.86	6.15	2.90	3.67	.37	5.43	1.11	4.14	.64
DALECARLIA RESERVOIR	5.80	2.83	6.65	3.66	6.10	2.58	4.20	.70	5.28	1.09	4.07	.46
GLENN DALE BELL STN	5.17	2.16	6.02	3.22	5.38	2.03	4.05	.62	5.52	1.06	2.78	-1.08
LAUREL 3 W	5.72	2.84	5.38	2.47	6.59	3.11	3.20	-.21	5.05	.52	4.92	1.21
NATIONAL ARBORETUM DC	5.62	2.48	5.40	2.39	7.44	4.10	4.17	.90	4.36	.19	4.76	.96
UPPER MARLBORO 3 NNW	6.35	3.20	6.53	3.79	6.23	2.87	3.79	.41	5.08	.99	4.19	.33
--DIVISIONAL DATA----->	5.77	2.72	5.94	3.00	6.37	2.96	3.75	.43	4.74	.52	4.01	.31
NORTHERN EASTERN SHORE 05												
CHESTERTOWN	5.65	2.47	4.02	.96	6.03	2.38	3.65	.41	4.92	.89	4.92	.57
MILLINGTON 1 SE												
--DIVISIONAL DATA----->	5.65	2.38	4.02	.98	6.03	2.48	3.65	.37	4.92	.91	4.92	.93
NORTHERN CENTRAL 06												
ABERDEEN PHILLIPS FIEL	5.22	2.18	4.42	1.72	6.23	2.94	2.45	-1.11	6.51	2.44	3.98	-.44
BALTIMORE CITY R	M		M		M		M		M		M	
CATOCTIN MOUNTAIN PARK	7.21		8.57		6.56		5.06		6.09		6.02	
CLARKSVILLE 3 NNE	5.68		5.76		6.55		3.45		4.67		4.16	
CONOWINGO DAM	5.50	2.12	3.90	.95	6.38	2.88	3.38	-.38	5.80	1.62	3.43	-.87
DAMASCUS 2 SSW	5.94		6.01		6.44		3.81		4.71		5.60	
EMMITSBURG 2 SE	7.57	4.46	4.93	1.86	6.23	2.70	4.03	.26	5.84	1.49	3.99	-.02
FREDERICK POLICE BRKS	5.75		4.92		6.73		5.67		5.27		4.25	
GERMANTOWN 2 W					M		M		M			
MILLERS 4 NE	5.75		4.48		6.82		4.70		4.92		4.72	
POTOMAC FILTER PLANT	5.81	3.28	6.58	4.06	5.77	2.83	3.42	.43	3.94	.19	3.99	.31
ROCKVILLE 1 NE	3.56		5.21	2.38	5.10	1.74	2.81	-.38	4.31	.13	4.55	.79
WESTMINSTER POL BRKS	5.48	2.58	4.04	1.45	6.21	2.79	4.53	1.06	6.09	1.82	6.15	2.24
WOODSTOCK	5.91	2.69	5.63	2.62	6.50	2.79	3.48	-.02	6.38	1.91	4.53	.66
--DIVISIONAL DATA----->	6.00	2.92	4.93	1.96	6.34	2.81	3.94	.41	5.51	1.14	4.67	.69
APPALACHIAN MOUNTAIN 07												
CUMBERLAND 2	4.57	2.19	4.87	2.58	3.96	.88	5.41	2.22	4.69	1.03	5.22	1.88
CUMBERLAND POLICE BRK	3.53		4.75		3.94		5.94		4.61		4.57	
FROSTBURG 2	5.07		6.24		3.52		5.84		4.05		5.32	
HAGERSTOWN POLICE BRK	M 3.50		M 1.81		1.81		1.85		2.30		3.33	
HANCOCK	4.84	2.42	5.86		3.37	.29						
SHARPSBURG 5 S											3.78	
--DIVISIONAL DATA----->	4.50	1.89	5.29	2.74	3.32	.01	4.76	1.32	3.91	-.02	4.44	.99
ALLEGHENY PLATEAU 08												

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.
MARYLAND														
SOUTHERN EASTERN SHORE 01														
ASSATEAGUE ISLAND	1.83		2.57		2.60		1.07		1.14		3.24		42.35	
PRINCESS ANNE	1.91	-2.09	2.53	-2.56	1.71	-2.04	.48	-2.77	.40	-2.74	3.58	.33	43.95	1.17
SALISBURY	.96	-3.06	2.54	-2.45	.91	-2.64	.98	-2.25	1.35	-1.72	3.64	.11	43.45	-.86
SALISBURY FAA ARPT	1.16	-3.17	2.61	-2.72	.97	-2.72	1.03	-2.39	1.30	-1.85	3.44	-.24	43.03	-2.30
SNOW HILL 4 N	1.74	-2.36	3.48	-1.89	1.46	-1.83	1.48	-1.76	1.33	-1.89	4.45	1.01	47.12	2.59
--DIVISIONAL DATA----->	1.52	-2.53	2.75	-2.12	1.53	-1.88	1.01	-2.17	1.10	-2.02	3.67	.26	43.98	.73
CENTRAL EASTERN SHORE 02														
ROYAL OAK 2 SSW	1.30	-2.66	1.55	-2.68	.90	-2.74	3.70	.55	1.21	-2.21	2.74	-.98	43.04	-1.01
VIENNA	1.50	-2.48	4.48	-.39	1.77	-1.90	1.45	-1.55	.82	-2.34	5.65	2.20	46.74	3.00
--DIVISIONAL DATA----->	1.40	-2.54	3.02	-1.38	1.34	-2.17	2.58	-.49	1.02	-2.30	4.20	.64	44.92	1.59
LOWER SOUTHERN INDIANHEAD 03														
LA PLATA 1 W	.80	-3.11	2.34	-2.05	M									
MECHANICSVILLE 5 NE	1.23	-2.99	.76	-3.30	.50	-3.25	1.28	-2.15	1.17	-2.34	2.50	-.84	43.96	-.75
OWINGS FERRY LANDING														
--DIVISIONAL DATA----->	1.02	-2.94	1.55	-2.42	.50	-3.17	1.28	-1.96	1.17	-2.22	2.50	-.83	42.81	.25
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	1.35	-2.23	1.80	-2.10	.99	-2.27	.76	-2.55	1.16	-2.29	2.37	-1.07	40.84	-.97
BALTIMORE WSO ARPT R	1.42	-2.27	.91	-3.01	1.27	-2.14	1.06	-1.92	1.13	-2.19	1.27	-2.14	34.37	-6.39
BELTSVILLE	1.93	-2.16	.52	-3.62	2.37	-1.34	.86	-2.51	1.16	-2.08	1.32	-2.03	37.14	-4.63
DALECARLIA RESERVOIR	2.41	-1.48	1.87	-2.42	2.03	-1.55	1.08	-2.42	1.41	-2.08	2.11	-1.35	43.01	.02
GLENN DALE BELL STN	.59	-3.57	1.28	-3.04	2.22	-1.40	.70	-2.73	1.54	-1.96	1.81	-1.47	37.06	-6.16
LAUREL 3 W	1.93	-2.05	.73	-3.22	1.54	-2.11	1.51	-1.90	1.38	-2.45	1.46	-1.96	39.41	-3.75
NATIONAL ARBORETUM DC	1.81	-2.57	1.02	-3.37	2.17	-1.43	.81	-2.47	1.13	-2.27	1.94	-1.39	40.63	-2.48
UPPER MARLBORO 3 NNW	2.07	-1.95	2.34	-1.62	1.71	-1.89	.58	-2.88	1.00	-2.34	2.04	-1.23	41.91	-.32
--DIVISIONAL DATA----->	1.69	-2.32	1.31	-2.86	1.79	-1.79	.92	-2.39	1.24	-2.16	1.79	-1.58	39.32	-3.16
NORTHERN EASTERN SHORE 05														
CHESTERTOWN	3.42	-.28	3.03	-.93	2.86	-.78	1.07	-2.07	1.27	-2.12	1.87	-1.90	42.71	-.40
MILLINGTON 1 SE							1.64	-1.49	.53	-2.78	M	1.67		
--DIVISIONAL DATA----->	3.42	-.38	3.03	-.85	2.86	-.79	1.36	-1.78	.90	-2.49	1.87	-1.82	42.63	-.06
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FIEL	3.49	-.47	2.48	-1.95	2.26	-1.63	2.66	-.47	1.12	-2.20	1.31	-2.30	42.13	-1.29
BALTIMORE CITY R	M		M		M		M		M		M			
CATOCTIN MOUNTAIN PARK	4.06		2.45		1.44		2.36		.62		.77		M	51.21
CLARKSVILLE 3 NNE	2.80		2.95		1.83		2.24		1.50		1.33			42.92
CONOWINGO DAM	2.99	-1.25	6.50	2.04	2.44	-1.51	4.31	1.08	1.61	-2.13	1.71	-2.08	47.95	2.47
DAMASCUS 2 SSW	2.04		1.98		1.87		2.61		1.54		1.65		44.20	
EMMITSBURG 2 SE	4.77	1.53	2.12	-1.49	1.65	-2.32	2.12	-1.33	.65	-3.04	.62	-2.65	44.52	1.45
FREDERICK POLICE BRKS	3.13		1.85		1.47		2.19		.90		.95		43.08	
GERMANTOWN 2 W														
MILLERS 4 NE	3.48		3.48		1.63		4.16		1.00		.78		45.92	
POTOMAC FILTER PLANT	1.19	-2.36	1.59	-2.02	1.65	-2.00	1.54	-1.49	1.19	-2.10	1.77	-1.26	38.44	-.13
ROCKVILLE 1 NE	1.82	-1.89	.80	-3.19	1.33	-2.20	1.72	-1.62	1.07	-2.23	1.48	-1.59	M	33.76
WESTMINSTER POL BRKS	2.81	-1.00	2.14	-1.28	2.04	-1.60	3.87	.62	.75	-2.60	1.29	-2.03	45.40	4.05
WOODSTOCK	3.51	.06	1.52	-2.05	2.10	-1.49	2.76	-.47	1.29	-2.34	1.21	-2.27	44.82	2.09
--DIVISIONAL DATA----->	3.17	-.63	2.57	-1.28	1.82	-1.89	2.82	-.52	1.10	-2.48	1.19	-2.28	44.06	.85
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	2.69	-.68	2.30	-1.00	2.29	-.79	1.10	-1.67	.09	-2.67	.64	-1.97	37.83	2.00
CUMBERLAND POLICE BRK	3.67		1.15		2.49		1.32		.18		1.39			37.54
FROSTBURG 2	3.16		4.93		1.95		1.44		.17		.63			42.32
HAGERSTOWN POLICE BRK	1.44		1.27		.79		1.37		.30		.79		M	20.56
HANCOCK														
SHARPSBURG 5 S	2.85		1.80		1.16		1.44		.52		.78			
--DIVISIONAL DATA----->	2.76	-.78	2.29	-1.05	1.74	-1.46	1.33	-1.84	.25	-2.86	.85	-1.97	35.44	-3.03
ALLEGHENY PLATEAU 08														

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
OAKLAND 1 SE	4.99	1.80	4.03	1.08	3.66	-.41	5.65	1.31	5.46	.75	7.23	2.85
SAVAGE RIVER DAM	4.49	2.09	4.73	2.49	3.21	-.04	5.42	2.01	4.56	.63	5.85	2.50
--DIVISIONAL DATA----->	4.74	1.56	4.38	1.43	3.44	-.52	5.54	1.47	5.01	.64	6.54	2.46
DELAWARE												
NORTHERN 01												
NEWARK UNIVERSITY FARM	5.07	2.09	3.56	.83	4.51	1.25	2.80	-.69	4.33	.18	4.12	.27
WILMINGTON WSO ARPT R	4.80	1.77	2.95	.04	4.86	1.43	2.91	-.48	4.13	.29	4.66	1.11
WILMINGTON PORTER RSVR	5.59	2.12	3.53	.48	5.37	1.56	3.35	-.66	4.31	-.02	4.59	.53
--DIVISIONAL DATA----->	5.15	1.97	3.35	.50	4.91	1.44	3.02	-.55	4.26	.21	4.46	.70
SOUTHERN 02												
DOVER	5.19	1.81	5.50	2.57	5.57	1.77	2.86	-.64	4.63	.64	3.13	-.72
GREENWOOD 2 NE	6.57		6.68		5.92		2.23		M 4.63		3.36	
LEWES	6.90	3.14	5.92	2.62	5.08	.97	3.65	.09	M 4.63		3.10	-.28
--DIVISIONAL DATA----->	6.22	2.58	6.03	2.85	5.52	1.58	2.91	-.57		.75	3.20	-.29

MARYLAND AND DELAWARE
1998

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.
OAKLAND 1 SE	3.51	-1.61	3.85	-.32	3.71	.44	1.98	-1.21	.82	-2.82	1.81	-1.93	46.70	-.07
SAVAGE RIVER DAM	3.07	-1.14	3.62	.43	2.81	-.30	1.00	-1.93	.14	-2.71	.78	-1.96	39.68	2.07
--DIVISIONAL DATA----->	3.29	-1.57	3.74	-.09	3.26	-.06	1.49	-1.68	.48	-3.08	1.30	-2.38	43.21	-1.82
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM	1.23	-3.29	2.47	-1.53	1.48	-2.20	2.65	-.52	1.39	-1.89	1.16	-2.34	34.77	-7.84
WILMINGTON WSO ARPT R	2.18	-2.05	3.14	-.26	1.76	-1.67	2.80	-.08	1.26	-2.01	1.01	-2.47	36.46	-4.38
WILMINGTON PORTER RSVR	2.94	-1.45	1.30	-2.75	2.93	-1.02	3.07	-.23	1.50	-2.30	1.10	-2.74	39.58	-6.48
--DIVISIONAL DATA----->	2.12	-2.10	2.30	-1.33	2.06	-1.56	2.84	-.29	1.38	-2.03	1.09	-2.47	36.94	-5.51
SOUTHERN 02														
DOVER	1.69	-2.46	4.86	.61	2.90	-1.44	1.94	-1.32	1.21	-1.94	2.57	-.97	42.05	-2.09
GREENWOOD 2 NE	1.99		5.42		2.09		3.22		1.16		2.66			
LEWES	2.12	-1.86	1.60	-3.64	2.26	-.83	2.44	-.73	1.47	-1.81	3.46	-.22		
--DIVISIONAL DATA----->	1.93	-1.96	3.96	-.82	2.42	-1.22	2.53	-.70	1.28	-1.93	2.90	-.69	43.53	-.42

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

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	42.4		43.6		45.9		M54.3		63.2		72.0		76.6		77.4		74.3		62.0		49.9		M46.5		M59.0		
PRINCESS ANNE	M		44.4	M			58.6	4.6	M		M			M		72.6	3.9	M			M			M			
SALISBURY	44.3	8.4	44.3	6.2	48.4	1.7	58.5	3.4	66.7	2.0	73.3	.5	78.3	1.4	77.7	1.8	74.5	4.8	60.3	1.2	49.7	-.4	44.6	4.2	60.1	2.9	
SALISBURY FAA ARPT	43.3	8.9	M43.8	7.2	47.3	2.2	53.8	.1	62.3	-.9	70.9	-1.0	76.4	-.3	76.3	1.0	72.7	4.1	58.4	.9	47.6	-1.0	42.3	3.1	M57.9	2.0	
SNOW HILL 4 N	43.6	8.4	43.4	6.1	47.5	1.9	57.3	3.4	66.0	2.5	73.0	1.1	75.8	.0	75.8	1.1	73.3	4.6	59.4	1.5	48.1	-1.0	44.0	4.2	58.9	2.8	
--DIVISIONAL DATA----->	43.4	8.1	43.9	6.5	47.3	1.7	56.5	2.3	64.6	.9	72.3	.1	76.8	.2	76.8	1.1	73.5	4.0	60.0	1.3	48.8	-.8	44.4	4.3	59.0	2.5	
CENTRAL EASTERN SHORE 02																											
ROYAL OAK 2 SSW	43.4	9.3	43.4	6.9	48.1	2.4	58.5	3.6	68.0	3.1	73.4	-.1	78.1	.6	78.3	2.1	75.3	5.5	60.2	1.1	50.5	1.1	44.1	5.0	60.1	3.4	
VIENNA	44.3	9.4	43.6	6.2	48.3	1.8	58.2	2.8	67.7	2.5	74.6	1.0	78.5	.7	78.3	2.0	74.3	4.4	59.9	.9	49.9	.5	44.7	5.0	60.2	3.1	
--DIVISIONAL DATA----->	43.9	9.7	43.5	6.8	48.2	2.4	58.4	3.6	67.9	3.2	74.0	.7	78.3	.9	78.3	2.2	74.8	5.2	60.1	1.3	50.2	1.0	44.4	5.2	60.2	3.5	
LOWER SOUTHERN 03																											
INDIANHEAD					46.2																						
LA PLATA 1 W	43.3	9.5	43.4	6.4	48.5	2.3	M59.2	4.2	67.3	3.4	72.2	.6	76.3	.7	76.3	1.7	M										
MECHANICSVILLE 5 NE	42.2	8.9	41.8	5.5	47.1	1.4	57.4	3.0	66.0	2.1	71.0	-.9	75.5	-.7	75.5	.9	72.1	4.2	57.5	.7	48.1	.5	43.4	5.2	58.1	2.6	
OWINGS FERRY LANDING	42.0	8.5	41.2	5.0																							
--DIVISIONAL DATA----->	42.5	8.5	42.1	5.3	47.3	1.4	58.3	3.4	66.7	2.3	71.6	-.9	75.9	-.7	75.9	.5	72.1	3.1	57.5	-.4	48.1	-.5	43.4	4.6	58.5	2.2	
UPPER SOUTHERN 04																											
ANNAPOLIS POLICE BRKS	42.6	9.0	43.7	7.6	46.4	1.2	59.0	4.2	69.2	4.6	74.8	1.3	79.6	2.0	79.4	3.1	76.1	6.1	60.1	1.7	50.8	2.7	44.8	6.4	60.5	4.2	
BALTIMORE WSO ARPT	R	40.9	9.1	41.7	6.9	45.9	1.8	55.2	1.8	66.5	3.1	71.7	-.8	76.6	-.4	75.7	.1	71.8	3.3	56.3	-.3	46.1	-.7	41.1	4.4	57.5	2.4
BELTSVILLE	40.7	10.2	41.2	7.9	45.2	2.3	56.4	4.2	66.5	4.5	72.0	1.0	76.8	1.2	76.8	2.6	73.6	6.4	58.1	3.0	46.9	1.0	42.4	6.6	58.1	4.2	
DALECARLIA RESERVOIR	42.2	9.3	43.2	7.1	47.3	1.7	58.3	3.3	68.0	3.2	73.4	.3	78.7	1.5	79.2	3.4	76.4	7.3	59.4	2.0	49.7	2.3	44.1	6.7	60.0	4.0	
GLENN DALE BELL STN	40.5	8.0	42.2	6.7	48.4	3.7	56.0	2.4	66.4	3.2	71.6	.3	76.4	.9	76.3	2.1	72.9	5.2	56.6	.2	46.7	-.3	42.0	5.0	58.0	3.1	
LAUREL 3 W	41.7	9.7	42.8	8.1	46.7	2.3	57.5	3.5	68.0	4.2	72.2	-.1	78.9	1.9	78.7	2.9	75.1	6.4	60.0	2.7	49.7	2.4	43.9	7.3	59.6	4.3	
NATIONAL ARBORETUM DC	42.2	9.6	41.1	5.9	46.0	1.2	58.4	4.4	68.4	4.4	74.4	1.7	79.6	2.6	79.4	3.7	75.1	6.5	58.8	1.7	48.2	1.0	43.8	6.4	59.6	4.1	
UPPER MARLBORO 3 NNW	41.2	10.0	41.1	7.2	45.0	1.4	55.6	2.6	65.8	3.2	71.5	.4	76.3	1.0	75.5	1.8	72.2	5.3	57.4	2.2	46.8	.4	43.0	6.9	57.6	3.5	
--DIVISIONAL DATA----->	41.5	9.1	42.1	6.9	46.4	1.8	57.1	3.2	67.4	3.7	72.7	.4	77.9	1.3	77.6	2.3	74.2	5.7	58.3	1.5	48.1	.9	43.1	6.0	58.9	3.6	
NORTHERN EASTERN SHORE 05																											
CHESTERTOWN	40.5	8.4	41.5	6.8	45.2	1.3	55.9	2.5	66.3	2.7	71.3	-1.2	76.9	.1	75.5	-.1	70.9	2.0	56.4	-1.1	47.3	-.1	41.8	4.8	57.5	2.2	
MILLINGTON 1 SE																											
--DIVISIONAL DATA----->	40.5	8.3	41.5	6.6	45.2	1.0	55.9	2.5	66.3	2.8	71.3	-.9	76.9	.4	75.5	.3	70.9	2.3	56.8	-.5	47.3	-.2	41.8	4.8	57.5	2.3	
NORTHERN CENTRAL 06																											
ABERDEEN PHILLIPS FIEL	M		M43.5	8.4	M45.5	1.2	57.6	3.8	M		72.0	.0	77.0	.7	M76.8	1.8	M72.9	4.3	M		M		M44.0	6.8	M		
BALTIMORE CITY	R	46.8	11.9	M47.3	10.0	M51.3	4.7	M61.9	5.3	M71.5	4.7	77.7	1.7	83.3	2.9	M83.4	4.7	78.7	7.1	64.0	4.0	53.8	4.2	M47.6	8.3	M63.9	5.8
CATOCTIN MOUNTAIN PARK		37.7		37.7		42.7		54.0		64.5		67.4		72.6		72.3		69.7		55.5		46.3		40.5		55.1	
CLARKSVILLE 3 NNE		39.4		40.1		44.3		54.3		64.8		69.9		73.4		72.9		68.8		53.1		43.7		39.5		55.4	
CONOWINGO DAM	M40.2	11.0	M41.4	9.4	45.3	3.8	57.8	6.4	68.9	6.9	73.4	2.6	78.6	3.5	77.9	3.9	73.2	6.2	59.0	3.9	47.8	3.3	42.8	8.5	M58.9	5.8	
DAMASCUS 2 SSW	M38.6		39.4		43.7		54.4		64.7		68.2		73.7		74.1		71.0		M55.8		46.2		40.8		M55.9		
EMMITSBURG 2 SE	39.5	10.4	39.4	7.4	44.5	2.5	54.5	3.0	65.2	3.8	70.0	.2	73.8	-.3	73.0	.3	70.8	5.2	56.2	1.9	45.8	1.5	40.4	6.2	56.1	3.5	
FREDERICK POLICE BRKS	41.0		41.2		45.9		56.5		68.0		72.7		76.8		76.4		74.3		58.8		48.6		42.9		58.6		
GERMANTOWN 2 W					M		M		M																		
MILLERS 4 NE	39.1		39.4		43.7		54.2		65.4		69.3		73.1		73.1		69.7		55.9		46.0		40.9		55.8		
ROCKVILLE 1 NE	40.9	10.2	41.4	8.3	45.7	2.3	55.9	3.5	66.6	4.6	70.8	.4	76.3	1.6	76.2	3.2	72.4	6.7	57.0	2.1	47.7	2.8	42.2	7.1	57.8	4.4	
WESTMINSTER POL BRKS	39.5	10.0	39.7	7.4	44.5	2.6	54.9	3.0	65.6	3.7	70.5	.1	74.7	.1	73.7	.6	70.1	3.8	56.2	1.1	47.2	2.1	41.2	6.7	56.5	3.4	
WOODSTOCK	40.4	9.6	40.3	6.7	45.4	2.3	56.2	3.6	66.8	4.1	71.2	.3	75.6	.2	75.3	1.3	71.7	4.6	56.8	1.4	46.2	.5	41.5	5.8	57.3	3.4	
--DIVISIONAL DATA----->	40.3	9.5	40.9	7.4	45.2	2.2	56.0	3.4	66.5	3.9	71.1	.1	75.7	.5	75.4	1.6	71.9	4.8	57.1	1.4	47.2	1.4	42.0	6.6	57.4	3.6	
APPALACHIAN MOUNTAIN 07																											
CUMBERLAND 2	38.5	8.2	39.6	6.2	45.0	1.8	55.1	1.5	66.4	3.3	70.4	-.6	74.5	-.6	74.2	.3	71.0	4.3	55.6	.8	45.8	1.2	39.5	4.9	56.3	2.6	
CUMBERLAND POLICE BRK	37.8		38.0		43.9		54.4		65.2		69.6		73.1		72.1		69.6		54.5		45.4		39.8		55.3		
FROSTBURG 2	34.0		33.5		38.3		49.9		60.7		64.2		68.3		68.9		65.3		51.1		41.5		36.7		51.0		
HAGERSTOWN POLICE BRK	40.3		40.6		45.3		56.3		66.9		M		75.0		74.5		72.3		56.9		46.8		41.8		M		

MARYLAND AND DELAWARE
1998

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

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
HANCOCK	M		39.4	8.8	M45.0	4.3																				
SHARPSBURG 5 S											69.2		73.3		73.2		69.8		55.5		45.0		41.0		M	
--DIVISIONAL DATA----->	37.7	8.7	38.2	6.4	43.5	2.0	53.9	2.4	64.8	3.6	68.4	-.8	72.8	-.4	72.6	.7	69.6	4.4	54.7	.9	44.9	.9	39.8	6.2	55.1	2.9
ALLEGHENY PLATEAU 08																										
OAKLAND 1 SE			34.3	6.5	39.3	1.8	50.1	3.4	60.1	3.8	64.5	.7	68.5	.8	68.0	1.4	64.3	3.9	50.5	.9	41.6	1.5	36.5	6.2	51.0	3.3
SAVAGE RIVER DAM	M34.9	9.4	35.0	7.2	39.7	2.2	50.1	2.4	61.3	3.7	65.4	.1	69.4	.0	69.0	.7	65.7	3.9	51.6	1.3	42.0	1.2	36.9	6.6	M51.8	3.2
--DIVISIONAL DATA----->	34.8	10.0	34.7	7.6	39.5	2.7	50.1	3.3	60.7	4.1	65.0	.8	69.0	1.0	68.5	1.6	65.0	4.4	51.1	1.6	41.8	1.8	36.7	7.1	51.4	3.8
DELAWARE																										
NORTHERN 01																										
NEWARK UNIVERSITY FARM			41.5	7.4	45.2	2.0	56.5	3.9	66.7	3.6	72.0	.3	77.6	1.6	75.7	1.1	71.7	3.7	57.5	1.0	46.9	.2	41.0	4.9	57.8	3.3
WILMINGTON WSO ARPT R	39.8	9.2	41.0	7.6	44.7	2.0	54.2	2.0	65.3	2.8	70.5	-1.0	75.1	-1.3	75.5	.5	70.9	2.9	57.0	.8	46.9	.6	41.0	5.2	56.8	2.6
WILMINGTON PORTER RSVR	40.8	10.7	41.9	9.2	45.4	3.6	55.3	3.8	66.2	4.3	70.7	-1.1	76.4	1.2	76.0	2.2	70.7	3.9	56.4	.8	46.7	1.0	40.9	5.6	57.3	3.9
--DIVISIONAL DATA----->	40.5	9.7	41.5	8.0	45.1	2.4	55.3	3.1	66.1	3.5	71.1	-.4	76.4	.5	75.7	1.2	71.1	3.4	57.0	.8	46.8	.5	41.0	5.1	57.3	3.2
SOUTHERN 02																										
DOVER			42.6	6.2	46.5	1.5	56.4	2.3	65.4	1.2	72.1	-.7	76.1	-1.1	75.0	-.9	71.9	2.3	57.3	-1.3	48.6	-.4	42.8	4.0	58.1	1.9
GREENWOOD 2 NE	43.0		42.2		46.3		55.7		M		71.6		75.8		74.4		70.8		58.2		46.2		41.7		M	
LEWES	44.4	9.9	43.1	6.5	47.8	3.2	58.0	4.7	M		72.8	1.2	78.1	2.2	77.2	2.3	74.3	5.1	61.1	2.7	50.5	1.0	45.4	5.7	M	
--DIVISIONAL DATA----->	43.4	9.7	42.6	6.7	46.9	2.3	56.7	3.3	65.4	2.1	72.2	.1	76.7	.3	75.5	.4	72.3	3.6	58.9	1.2	48.4	-.1	43.3	4.7	58.5	2.9

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

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	99	7/22	22	12/23	NONE MSG		NONE MSG		3/12	23	3/13	27	4/13	32	11/22	32	12/23	22	12/23	22	NONE MSG		NONE MSG					286	285	223
ASSATEAGUE ISLAND PRINCESS ANNE	99	7/22	19	12/27	NONE	1/ 1	19	3/13	23	3/17	28	3/25	30	11/ 5	31	12/15	24	12/15	24	12/27	19	NONE				360	277	273	225	
SALISBURY	98	8/25	12	12/31	NONE		3/13	18	3/13	18	3/25	28	4/13	30	10/30	32	11/ 7	27	12/15	22	12/25	20	12/27	16		287	277	227	200	
SALISBURY FAA ARPT	99	8/25	14	12/31	1/ 1	14	3/13	17	3/17	24	3/25	28	4/28	32	10/23	32	11/ 5	25	11/ 7	24	12/26	18	12/27	16	360	288	235	225	178	
SNOW HILL 4 N CENTRAL EASTERN SHORE 02	99	8/25	19	12/26	NONE		NONE		3/12	22	3/17	27	3/25	30	11/ 5	28	11/ 5	28	12/23	22	12/25	19	NONE				286	233	225	
ROYAL OAK 2 SSW VIENNA	99	7/22	18	12/27	NONE		1/ 1	19	3/12	22	3/17	28	3/25	30	11/ 5	29	12/15	22	12/15	22	12/26	18	NONE			359	278	273	225	
LOWER SOUTHERN INDIANHEAD 03					MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG							
LA PLATA 1 W					NONE		3/13	20	3/13	20	3/24	28	3/25	29	MSG		MSG		MSG		MSG		MSG							
MECHANICSVILLE 5 NE	96	7/22	14	12/26	1/ 1	15	3/13	18	3/13	18	3/25	25	4/12	32	11/ 5	26	11/ 5	26	12/15	21	12/23	20	12/26	14	359	285	277	225	207	
OWINGS FERRY LANDING					1/ 1	15	MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG							
UPPER SOUTHERN ANnapolis POLICE BRKS	100	7/22	18	1/ 1	NONE		1/ 1	18	3/16	22	3/25	26	3/26	30	11/ 5	32	11/ 6	24	11/ 6	24	12/26	19	NONE			359	235	226	224	
BALTIMORE WSO ARPT	R 99	7/22	9	12/26	NONE		3/13	17	3/17	23	3/25	25	4/12	32	10/31	31	11/ 4	27	11/ 5	24	12/23	17	12/25	13		285	233	224	202	
BELTSVILLE	97	6/27	13	12/26	1/ 1	16	3/13	19	3/13	19	3/25	26	4/ 7	31	11/ 5	24	11/ 5	24	11/ 5	24	12/23	19	12/26	13	359	285	237	225	212	
DALECARLIA RESERVOIR	98	7/14	16	1/ 1	1/ 1	16	3/13	20	3/25	24	3/25	24	4/11	31	11/ 5	32	11/22	27	12/15	23	12/23	19	NONE			285	265	242	208	
GLENN DALE BELL STN	98	7/23	11	12/26	1/ 1	14	3/13	19	3/14	24	4/11	28	4/28	31	10/23	28	10/23	28	11/ 5	21	12/15	19	12/23	16	356	277	236	195	178	
LAUREL 3 W	97	8/26	15	1/ 1	1/ 1	15	3/12	19	3/14	24	3/14	24	3/25	32	11/ 5	30	12/22	25	12/23	18	12/23	18	NONE			286	284	283	225	
NATIONAL ARBORETUM DC	101	7/23	14	12/26	1/ 1	16	3/12	19	3/13	22	3/25	25	3/26	32	11/ 5	25	11/ 5	25	12/15	22	12/23	19	12/26	14	359	286	277	225	224	
UPPER MARLBORO 3 NNW	98	7/23	14	12/26	1/ 2	16	3/14	19	3/17	24	3/26	28	4/11	32	10/23	32	11/ 5	26	12/15	22	12/23	19	12/26	14	358	284	273	224	195	
NORTHERN EASTERN SHORE 05																														
CHESTERTOWN	97	7/22	13	12/26	1/ 1	16	3/13	20	3/17	24	3/25	26	3/25	26	10/23	31	11/ 5	23	11/ 5	23	12/23	17	12/26	13	359	285	233	225	212	
MILLINGTON 1 SE					MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG							
NORTHERN CENTRAL ABERDEEN PHILLIPS FIEL	R 96	6/26	24	12/23	MSG		3/12	19	3/13	21	3/25	27	4/ 6	32	MSG		MSG		MSG		MSG		MSG				286	284	252	
BALTIMORE CITY	104	6/26	8	1/ 1	NONE		NONE		3/12	24	3/13	27	3/16	32	11/23	32	12/22	27	12/23	24	NONE		NONE							
CATOCTIN MOUNTAIN PARK	90	9/ 6	8	1/ 1	3/13	15	3/13	15	3/17	24	3/25	26	4/ 7	32	11/ 4	30	11/ 5	26	12/22	21	12/23	10	12/23	10	285	285	280	225	211	
CLARKSVILLE 3 NNE	97	7/22	4	12/26	3/13	12	3/25	19	4/11	24	4/13	27	4/29	31	10/ 2	29	10/23	25	10/31	24	11/ 5	15	11/ 5	15	237	225	203	193	156	
CONOWINGO DAM	100	6/26	16	12/27	1/ 1	16	1/ 2	18	3/16	24	3/17	27	3/23	30	11/ 4	32	11/ 5	28	12/23	21	12/25	19	12/27	16	360	357	282	233	226	
DAMASCUS 2 SSW	92	9/ 6	6	1/ 1	3/12	15	3/13	19	3/13	19	3/25	26	4/ 6	32	11/ 5	24	11/ 5	24	11/ 5	24	12/23	12	12/23	12	286	285	237	225	213	
EMMITSBURG 2 SE	95	7/22	8	12/26	1/ 1	10	3/13	20	3/25	22	4/11	28	4/13	31	10/23	31	11/ 5	20	11/ 5	20	11/ 5	20	12/15	15	348	237	225	208	193	
FREDERICK POLICE BRKS	96	9/ 6	14	12/26	1/ 1	14	3/12	18	3/13	22	3/25	27	3/25	27	11/ 5	27	11/ 5	27	12/15	23	12/23	16	12/23	16	356	286	277	225	225	
GERMANTOWN 2 W					MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG							
MILLERS 4 NE	90	7/22	7	1/ 1	3/13	15	3/13	15	3/25	23	3/25	23	4/11	31	10/30	32	11/ 5	23	11/ 5	23	12/23	13	12/23	13	285	285	225	225	202	
ROCKVILLE 1 NE	95	7/22	11	12/26	1/ 1	16	3/12	18	3/13	22	3/25	27	3/25	27	11/ 5	28	11/ 5	28	12/22	21	12/23	17	12/25	14	358	286	284	225	225	
WESTMINSTER POL BRKS	93	7/22	9	1/ 1	3/13	12	3/14	20	3/17	22	3/25	25	4/28	30	11/ 5	24	11/ 5	24	11/ 5	24	12/23	14	12/23	14	285	284	233	225	191	
WOODSTOCK	96	6/26	7	12/26	3/13	15	3/13	15	3/25	23	3/25	23	4/13	32	10/23	31	11/ 5	23	11/ 5	23	12/15	19	12/23	14	285	277	225	225	193	
APPALACHIAN MOUNTAIN 07																														
CUMBERLAND 2	97	9/15	6	1/ 1	1/ 1	6	3/13	20	3/13	20	3/25	27	4/11	32	11/ 4	21	11/ 4	21	11/ 4	21	12/22	14	12/22	14	355	284	236	224	207	
CUMBERLAND POLICE BRK	94	7/22	3	1/ 1	3/13	16	3/13	16	3/25	23	3/25	23	4/28	32	10/30	32	11/ 5	20	11/ 5	20	11/ 5	20	12/23	13	285	237	225	225	185	
FROSTBURG 2	88	6/26	3	1/ 2	3/14	13	3/14	13	3/25	24	3/26	27	4/29	31	10/22	32	11/ 5	20	11/ 5	20	11/ 5	20	12/23	8	284	236	225	224	176	
HAGERSTOWN POLICE BRK			2	1/ 1	1/ 1	2	3/13	18	3/25	24	3/25	24	4/12	30	10/30	32	11/ 5	21	11/ 5	21	12/15	20	12/23	16	356	277	225	225	201	
HANCOCK					MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG							
SHARPSBURG 5 S					MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG							
ALLEGHENY PLATEAU 08																														
OAKLAND 1 SE	90	9/14	0	1/ 1	3/13	10	3/25	17	4/12	24	4/28	27	4/28	27	10/ 2	29	10/16	27	11/ 5	15	11/ 5	15	11/ 5	15	237	225	207	171	157	
SAVAGE RIVER DAM	88	7/23	3	1/ 1	3/13	14	3/14	19	3/25	23	3/26	26	4/29	31	11/ 5	20	11/ 5	20	11/ 5	20	11/ 5	20	12/23	11	285	236	225	224	190	

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

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.					
DELAWARE																													
NORTHERN 01																													
NEWARK UNIVERSITY FARM	96	7/19	10	12/26	3/12	16	3/13	20	3/17	23	3/25	26	4/13	32	11/ 5	31	11/ 6	28	12/15	23	12/23	17	12/26	10	289	285	273	226	206
WILMINGTON WSO ARPT	93	6/26	13	12/26	1/ 1	16	3/12	19	3/13	22	3/25	26	4/ 7	32	11/ 4	31	11/ 5	27	12/15	24	12/23	18	12/26	13	359	286	277	225	211
WILMINGTON PORTER RSVR	94	6/26	17	12/25	NONE		3/12	20	3/13	22	3/17	27	3/25	31	11/ 5	30	12/22	22	12/22	22	12/23	18	NONE			286	284	280	225
SOUTHERN 02																													
DOVER	94	7/23	15	12/27	NONE		1/ 1	18	3/13	21	3/25	28	3/25	28	11/ 5	27	11/ 5	27	12/15	23	12/23	19	12/27	15		356	277	225	225
GREENWOOD 2 NE			14	12/27	MSG		3/13	20	3/17	24	3/25	28	MSG		10/31	32	11/ 5	26	12/15	22	12/23	20	12/26	14		285	273	225	
LEWES			19	1/ 1	NONE		1/ 1	19	3/13	24	3/17	28	3/24	31	11/ 5	32	12/15	27	12/23	24	12/26	20	NONE			359	285	273	226

MONTHLY AND SEASONAL COOLING DEGREE DAYS

BASE = 65 DEGREES FAHRENHEIT

MARYLAND AND DELAWARE
1998

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
MARYLAND														
SOUTHERN EASTERN SHORE 01														
ASSATEAGUE ISLAND	0	0	3	B 1	81	225	365	392	286	26	0	B 0	B1379	
PRINCESS ANNE	-	0	-	20	-	-	-	-	245	-	-	-	-	1097
SALISBURY	1	0	30	19	122	260	419	401	299	24	0	2	1577	1190
SALISBURY FAA ARPT	0	B 0	21	7	68	213	362	358	252	15	0	3	B1299	1096
SNOW HILL 4 N	0	0	28	19	117	253	342	340	269	28	0	2	1398	1053
CENTRAL EASTERN SHORE 02														
ROYAL OAK 2 SSW	0	0	29	18	139	263	414	419	321	19	0	2	1624	1245
VIENNA	0	0	20	17	150	298	426	420	295	11	0	2	1639	1292
LOWER SOUTHERN 03														
INDIANHEAD	-	-	30	-	-	-	-	-	-	-	-	-	-	
LA PLATA 1 W	2	0	40	B 28	125	243	356	358	-	-	-	-	-	1040
MECHANICSVILLE 5 NE	0	0	40	20	107	213	332	331	239	12	0	7	1301	1058
OWINGS FERRY LANDING	0	0	-	-	-	-	-	-	-	-	-	-	-	1108
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	0	0	33	13	164	301	456	449	342	15	0	2	1775	1271
BALTIMORE WSO ARPT R	0	0	39	9	115	228	367	341	235	0	0	0	1334	1137
BELTSVILLE	1	0	24	17	116	239	373	375	279	15	0	1	1440	954
DALECARLIA RESERVOIR	2	0	43	21	145	278	430	449	354	17	0	9	1748	1213
GLENN DALE BELL STN	0	0	62	11	119	236	361	356	263	8	0	5	1421	984
LAUREL 3 W	0	0	38	11	149	247	434	430	316	5	0	9	1639	1165
NATIONAL ARBORETUM DC	1	0	38	27	152	294	459	453	317	17	0	7	1765	1160
UPPER MARLBORO 3 NNW	0	0	28	15	106	224	358	335	241	13	0	3	1323	944
NORTHERN EASTERN SHORE 05														
CHESTERTOWN	0	0	23	9	120	219	379	334	208	3	0	1	1296	1139
MILLINGTON 1 SE	-	-	-	-	-	-	-	-	-	7	-	2	-	980
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FIEL	-	B 0	B 21	16	-	232	378	B 373	B 239	-	-	B 0	-	1087
BALTIMORE CITY R	1	B 0	B 79	B 40	B 225	392	575	B 582	419	47	2	B 28	B2390	1608
CATOCTIN MOUNTAIN PARK	0	0	30	5	103	142	245	236	186	3	0	0	950	
CLARKSVILLE 3 NNE	0	0	21	14	80	193	267	256	163	4	0	0	998	
CONOWINGO DAM	B 0	B 0	23	7	158	264	426	404	254	4	0	0	B1540	935
DAMASCUS 2 SSW	B 0	0	27	5	86	157	276	289	214	B 1	0	0	B1055	
EMMITSBURG 2 SE	0	0	17	10	88	200	281	258	206	13	0	0	1073	811
FREDERICK POLICE BRKS	1	0	29	10	148	258	374	360	293	14	0	3	1490	
GERMANTOWN 2 W	-	-	-	-	-	-	-	-	-	-	-	-	-	
MILLERS 4 NE	0	0	23	8	106	183	258	261	181	5	0	1	1026	
ROCKVILLE 1 NE	0	0	39	7	124	213	356	354	253	0	0	5	1351	889
WESTMINSTER POL BRKS	0	0	28	6	115	218	307	279	193	7	0	1	1154	887
WOODSTOCK	0	0	33	16	118	232	334	327	228	8	0	2	1298	956
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	0	0	30	1	105	208	303	290	209	4	0	0	1150	952
CUMBERLAND POLICE BRK	0	0	19	7	86	195	257	228	174	4	0	0	970	
FROSTBURG 2	0	0	14	4	33	88	118	139	91	1	0	0	488	
HAGERSTOWN POLICE BRK	1	0	28	12	116	-	320	303	246	10	0	4	-	
HANCOCK	-	0	B 16	-	-	-	-	-	-	-	-	-	-	687
SHARPSBURG 5 S	-	-	-	-	-	186	265	269	196	9	0	1	-	
ALLEGHENY PLATEAU 08														
OAKLAND 1 SE	0	0	5	1	17	84	129	119	63	0	0	0	418	277
SAVAGE RIVER DAM	B 0	0	0	0	34	103	150	144	85	2	0	0	B 518	388
DELAWARE														
NORTHERN 01														
NEWARK UNIVERSITY FARM	0	0	14	7	116	229	396	338	232	10	0	0	1342	1033

Heating Degree Days data found in July issue of Climatological Data

MARYLAND AND DELAWARE
1998

Heating Degree Days data found in July issue of Climatological Data

MARYLAND AND DELAWARE
1998

TOTAL EVAPORATION AND WIND MOVEMENT

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MARYLAND														
UPPER SOUTHERN	04													
BELTSVILLE														
	WIND	-	-	-	2114	B 1364	B 1675	1515	1563	1602	1697	-	-	-
	EVAP	-	-	-	5.60	B 5.23	B 6.42	7.66	7.26	6.75	B 3.40	-	-	-
	MAX TEMP	-	-	-	M 71.2	M 79.2	M 83.4	M 88.3	M 88.8	M 82.9	M 66.8	-	-	M -
	MIN TEMP	-	-	-	M 46.1	M 56.5	M 61.2	M 65.2	M 64.0	M 58.7	M 45.4	-	-	M -
UPPER MARLBORO 3 NNW	WIND	-	-	-	B 1220	618	-	-	-	-	-	-	-	-
	EVAP	-	-	-	B 4.54	B 4.94	-	-	-	-	-	-	-	-
	MAX TEMP	-	-	-	73.7	82.3	-	-	-	-	-	-	-	M -
	MIN TEMP	-	-	-	46.1	M 58.6	-	-	-	-	-	-	-	M -
ALLEGHENY PLATEAU	08													
SAVAGE RIVER DAM														
	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-
	EVAP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
DELAWARE														
NORTHERN	01													
NEWARK UNIVERSITY FARM														
	WIND	-	-	-	-	-	779	676	B 727	-	-	-	-	-
	EVAP	-	-	-	-	-	B 5.54	-	B 5.56	-	-	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION INDEX

STATION	INDEX NO.	DIVISION NO.	COUNTY	LATITUDE	LONGITUDE	ELEVATION FEET	YEARS OF RECORD			OPENED OR CLOSED DURING YR		SEE REFERENCE NOTES
							TEMP.	PRECIP.	EVAP.	MONTH OPENED	MONTH CLOSED	
MARYLAND												
ABERDEEN PHILLIPS FIEL	0015	06	HARFORD	39 28	76 10W	57	74	74	0			C H
ANNAPOLIS POLICE BRKS	0193	04	ANNE ARUNDEL	38 59	76 30W	25	41	41	0			H
ASSATEAGUE ISLAND	0335	01	WORCESTER	38 4	75 13W	10	32	32	0			H
BALTIMORE WSO ARPT R	0465	04	ANNE ARUNDEL	39 10	76 41W	148	65	65	0			C HJ
BALTIMORE CITY # R	0470	06	BALTIMORE (C	39 17	76 37W	14	129	129	0			C H
BELTSVILLE	0700	04	PRINCE GEORG	39 2	76 53W	145	61	61	58			C H
BENSON POLICE BARRACKS	0732	06	HARFORD	39 30	76 23W	365	42	42	0			H
BOYDS 2 NW	1032	06	MONTGOMERY	39 13	77 20W	580	37	37	0			H
BRIGHTON DAM	1125	06	MONTGOMERY	39 12	77 1W	330	0	44	0			
CAMBRIDGE WTR TRMT PL	1385	02	DORCHESTER	38 34	76 4W	5	95	95	0			H
CATOCTIN MOUNTAIN PARK	1530	06	FREDERICK	39 39	77 29W	1610	33	33	0			H
CHESTERTOWN	1750	05	KENT	39 13	76 4W	40	94	94	0			H
CLARKSVILLE 3 NNE	1862	06	HOWARD	39 15	76 56W	370	31	31	0			H
COLLEGE PARK	1995	04	PRN GEORGES	38 59	76 57W	90	103	103	0			C H
CONOWINGO DAM	2060	06	HARFORD	39 39	76 10W	40	64	64	0			H
CRISFIELD SOMERS COVE	2215	01	SOMERSET	37 59	75 52W	8	27	27	0			
CUMBERLAND 2	2282	07	ALLEGANY	39 38	78 45W	730	27	27	0			H
CUMBERLAND POLICE BRK	2285	07	ALLEGANY	39 38	78 50W	970	33	33	0			H
DALECARLIA RESERVOIR	2325	04	DISTRICT OF	38 56	77 7W	150	54	54	0			H
DAMASCUS 2 SW	2335	06	MONTGOMERY	39 16	77 14W	720	17	17	0			H
DAMASCUS 2 SSW	2336	06	MONTGOMERY	39 16	77 14W	670	6	6	0			H
DENTON 2 E	2523	02	CAROLINE	38 53	75 48W	50	39	39	0			H
EDGEMONT	2770	07	WASHINGTON	39 40	77 33W	905	0	51	0			
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 18W	416	44	44	0			H
FREDERICK POLICE BRKS	3348	06	FREDERICK	39 25	77 26W	380	27	27	0			H
FREDERICK 3 E	3355	06	FREDERICK	39 24	77 22W	385	0	41	0			
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2168	28	28	0			H
GERMANTOWN 2 W	3588	06	MONTGOMERY	39 10	77 18W	400	1	1	0		APR	H
GLENN DALE BELL STN	3675	04	PRINCE GEORG	38 58	76 48W	150	79	79	0			H
HAGERSTOWN	3975	07	WASHINGTON	39 39	77 44W	660	48	48	0			H
HAGERSTOWN POLICE BRK	3980	07	WASHINGTON	39 37	77 44W	560	2	2	0			H
HANCOCK	4030	07	WASHINGTON	39 42	78 11W	384	66	66	0		OCT	H
INDIANHEAD	4609	03	CHARLES	38 36	77 9W	35	1	1	0		MAR	H
LA PLATA 1 W	5080	03	CHARLES	38 32	77 0W	140	84	84	0		OCT	H
LAUREL 3 W	5111	04	PRINCE GEORG	39 6	76 54W	400	109	109	0			H
MC HENRY 2 NW	5832	08	GARRETT	39 35	79 22W	2680	19	19	0			C H
MECHANICSVILLE 5 NE	5865	03	ST. MARY'S	38 27	76 41W	100	38	38	0			H
MERRILL	5894	08	GARRETT	39 36	79 5W	1790	0	38	0			H
MILLERS 4 NE	5934	06	CARROLL	39 43	76 48W	860	13	13	0			C H
MILLINGTON 1 SE	5985	05	KENT	39 16	75 52W	30	102	102	0			H
NATIONAL ARBORETUM DC	6350	04	DISTRICT OF	38 54	76 59W	50	53	53	0			H
OAKLAND 1 SE	6620	08	GARRETT	39 24	79 24W	2419	102	102	0			H
OWINGS FERRY LANDING	6770	03	CALVERT	38 41	76 40W	160	83	83	0		FEB	H
PATUXENT RIVER	6915	03	ST MARY'S	38 20	76 25W	38	14	14	0			C H
POTOMAC FILTER PLANT	7272	06	MONTGOMERY	39 2	77 15W	270	0	38	0			H
PRINCESS ANNE	7330	01	SOMERSET	38 25	75 34W	20	51	51	0			H
ROCKVILLE 1 NE	7705	06	MONTGOMERY	39 6	77 6W	440	52	52	0			H
ROYAL OAK 2 SSW	7806	02	TALBOT	38 43	76 11W	10	52	52	0			H
SALISBURY	8000	01	WICOMICO	38 22	75 35W	10	93	93	0			H
SALISBURY FAA ARPT #	8005	01	WICOMICO	38 20	75 31W	50	52	52	0			H
SAVAGE RIVER DAM	8065	08	GARRETT	39 31	79 8W	1495	49	52	49			C H
SHARPSBURG 5 S	8207	07	WASHINGTON	39 24	77 43W	500	1	1	0	FEB		H
SNOW HILL 4 N	8380	01	WORCESTER	38 14	75 23W	30	84	84	0			H
TALL TIMBERS	8757	03	ST MARYS	38 10	76 33W	12	1	1	0	JAN		H
TOWSON	8877	06	BALTIMORE	39 23	76 34W	390	52	77	0			

STATION INDEX

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	
UNIONVILLE	9030	06	FREDERICK	39 27	77 11W	430	50	48	0			C
UPPER MARLBORO 3 NNW	9070	04	PRINCE GEORG	38 52	76 47W	100	42	42	42			H
VIENNA	9140	02	DORCHESTER	38 29	75 50W	10	51	51	0			H
WESTMINSTER POL BRKS	9440	06	CARROLL	39 33	76 58W	765	21	21	0			H
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52W	460	130	130	0			H
DELAWARE												
DOVER	2730	02	KENT	39 9	75 31W	30	112	111	0			H
GEORGETOWN 5 SW	3570	02	SUSSEX	38 38	75 27W	45	44	44	36			C H
GREENWOOD 2 NE	3595	02	SUSSEX	38 49	75 35W	45	15	15	0			H
LEWES	5320	02	SUSSEX	38 46	75 8W	15	56	56	0			H
MIDDLETOWN 3 E	5852	01	NEW CASTLE	39 27	75 40W	55	38	38	0			
MILFORD 4 SE	5915	02	SUSSEX	38 54	75 28W	30	94	94	0			H
NEWARK UNIVERSITY FARM	6410	01	NEW CASTLE	39 40	75 44W	90	87	87	43			C H
WILMINGTON WSO ARPT R	9595	01	NEW CASTLE	39 40	75 36W	74	52	52	0			C HJ
WILMINGTON PORTER RSVR	9605	01	NEW CASTLE	39 46	75 32W	270	88	88	0			H

REFERENCE NOTES

DEFINITIONS

STATION NAMES: Name of the city, town or locality. Figures and letters following the station names indicate the distance in miles and direction from the post office or town community center.

DIVISIONS: Areas within a state of similar climatological characteristics. Division averages are calculated using data from stations that record both temperature and precipitation (i.e. not precipitation alone).

NORMALS: The average value of the meteorological element over a time period. Effective 1 January 1993, the averaging period is 1961 to 1990. The normals for National Weather Service localities have been adjusted so as to be representative for the current observation site.

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

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

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

WIND: (As shown in the "Evaporation and Wind" table) the total wind movement in miles over the evaporation pan as determined by an anemometer recorder located 6-8 inches above the pan.

SYMBOLS AND LETTERS USED IN THE DATA TABLES

- No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.
- * Rain gage not read. Precipitation is included in the amount following asterisks. Time distribution not known.
- // Rain gage equipped with a windshield.
- A Amount of precipitation is the total of observer's entries for the current month. It may include precipitation that occurred during the previous month. Refer to monthly bulletins to determine date of last reading. (Hawaii stations)
- B Estimated total value for wind, evaporation, or cooling degree days.
- M Insufficient or partial data. M is appended to average and/or total values computed with 1-9 daily values missing. M appears alone if 10 or more daily values are missing.
- R Amounts from recording rain gage.
- T Trace. An amount too small to measure.
- V Includes total for previous month(s). (See * above)
- Z Same as M but the Z has overprinted a negative sign or leading digit (e.g., Z14.6 = M-14.6, Z08.2 = M108.2)

SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

- # Thermometers located in rooftop shelter.
- C Station is equipped with a recording rain gage (R), but values in this bulletin are from a non-recording rain gage unless indicated by an R.
- G Observations appear in "Soil Temperatures" table.
- H Observations appear in "Snowfall and Snow on the Ground" table in monthly "Climatological Data" publication.
- J Station also published as a "Local Climatological Data" bulletin.

Seasonal Tables: Monthly and seasonal snowfall and heating degree days for the 12 months ending with the June data are published in the July issue of "Climatological Data".

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

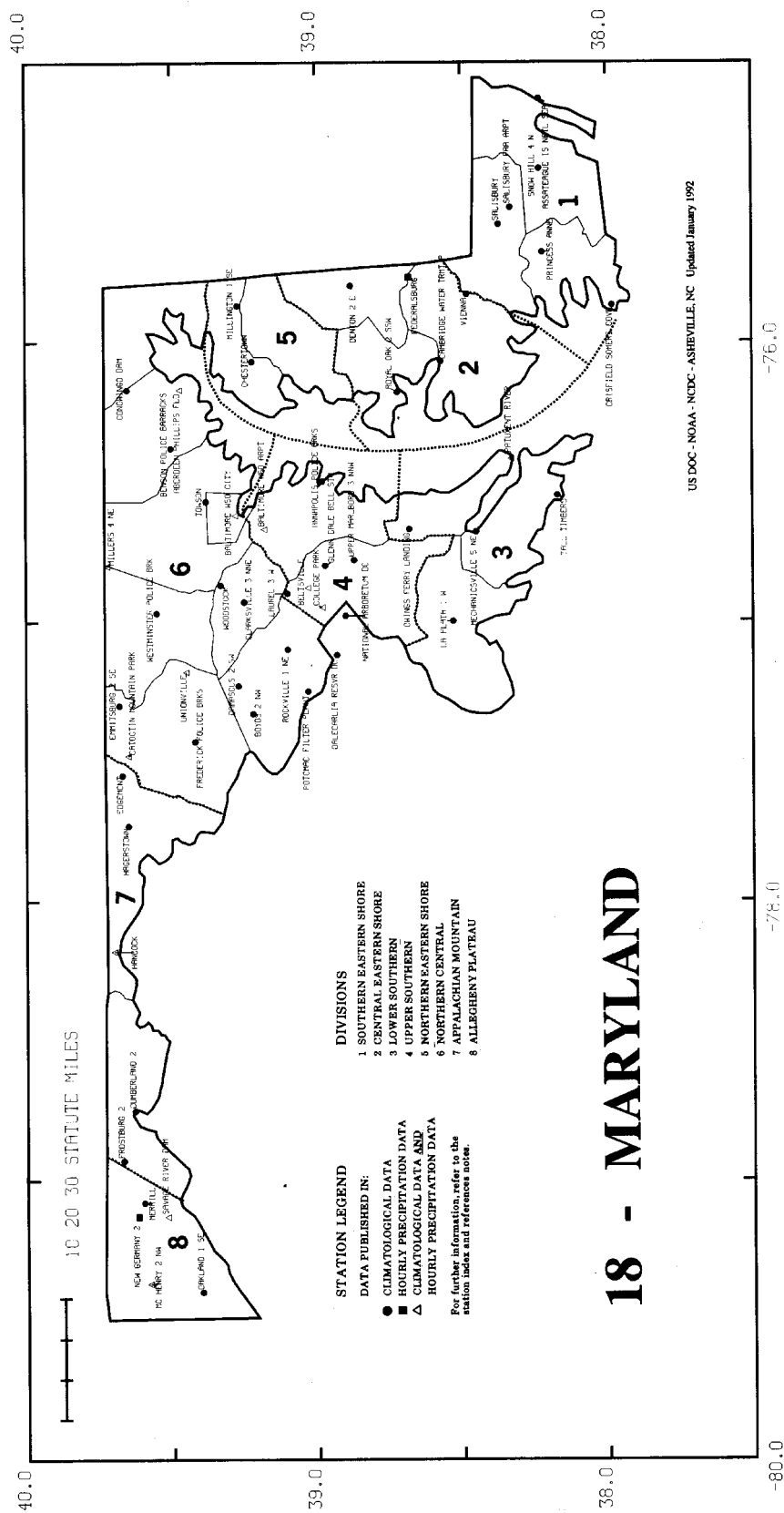
Additional precipitation data are contained in the "Hourly Precipitation Data" bulletin for each state, except Alaska.

Information concerning the history of changes in locations, exposure, etc. of substations is kept on file at the National Climatic Data Center. Similar historical information of regular National Weather Service Offices is available from the "Local Climatological Data" annual bulletin.

Additional information regarding the climate of this state may be obtained by writing to the address below or to any weather service office near you. The contents of this publication may be reprinted or otherwise used freely with proper credit to the National Climatic Data Center. The data are also available in digital form on magnetic tape and diskette.

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40.0

40.0

10 20 30 STATUTE MILES

07 - DELAWARE**1****STATION LEGEND**

DATA PUBLISHED IN:

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

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

- 1 NORTHERN
- 2 SOUTHERN

DOVER

2

MILFORD 4 SE

GREENWOOD 2 NE

LEWES

GEORGETOWN 5 SH
△US DOC - NOAA - NCDC - ASHEVILLE, NC
Updated January 1992

39.0

39.0

38.0
-76.0

-75.5

-75.0

38.0

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