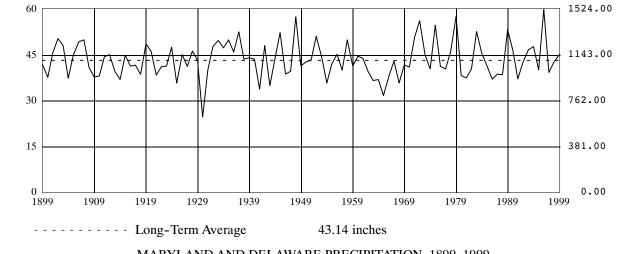
CLIMATOLOGICAL DATA ANNUAL SUMMARY

MARYLAND AND **DELAWARE** 1999

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MARYLAND AND DELAWARE PRECIPITATION, 1899-1999

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DIRECTOR

Thoma R Kail

NATIONAL CLIMATIC DATA CENTER

noaa

National Oceanic and Atmospheric Administration

National Environmental Satellite, Data and Information Service

National Climatic Data Center Asheville, North Carolina MILLIMETERS

CTATION	J	AN	F	EB	M	AR	A	PR	M	AY	Ј	UN
STATION	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
MARYLAND												
SOUTHERN EASTERN												
SHORE 01												
ASSATEAGUE ISLAND	3.63		2.85		M 7.11		3.88		1.29		1.42	
PRINCESS ANNE	5.12	1.71	2.86	39	4.70	.86	2.07	-1.20	1.24	-2.11	1.61	-1.57
SALISBURY	5.36	1.60	3.11	36	5.59	1.35	3.62	.32	1.23	-2.27	2.15	-1.50
SALISBURY FAA ARPT	6.06	2.42	3.38	08	4.83	.67	3.48	.28	1.34	-2.30	1.88	-1.75
SNOW HILL 4 N	4.71	.91	2.30	-1.31	6.37	2.07	3.16	05	1.31	-2.21	1.35	-2.08
DIVISIONAL DATA>	4.98	1.34	2.90	53	5.37	1.25	3.24	.07	1.28	-2.18	1.68	-1.71
CENTRAL EASTERN												
SHORE 02	6 11	2.54	2.06	4.4	F 20	1.50	2 72	60	5.0	2 67	2 22	1 20
ROYAL OAK 2 SSW	6.11 5.25	2.54	2.86 2.30	44	5.38 3.01	1.58	2.73 2.62	69	.56	-3.67	2.33	-1.28
VIENNA	5.68	1.59 2.10	2.58	-1.18 68	4.20	76 .46	2.68	77	1.04 .80	-2.47 -3.15	1.56 1.95	-2.24 -1.70
DIVISIONAL DATA> LOWER SOUTHERN 03	3.08	2.10	2.58	00	4.20	.40	2.08	67	.00	-3.15	1.95	-1.70
MECHANICSVILLE 5 NE	5.20	1.74	2.20	-1.18	4.82	.85	3.17	24	.63	-3.49	2.23	-1.83
DIVISIONAL DATA>	5.20	1.92	2.20	84	4.82	1.13	3.17	02	.63	-3.45	2.23	-1.49
UPPER SOUTHERN 04] 3.20	1.92	2.20	04	4.02	1.13	3.1/	02	.03	-3.43	2.23	-1.49
ANNAPOLIS POLICE BRKS	M 4.91		2.37	81	M 3.82		2.51	89	1.51	-2.55	3.42	.07
BALTIMORE WSO ARPT R	4.70	1.65	2.65	47	3.46	.08	2.27	82	1.73	-1.99	2.04	-1.63
BELTSVILLE	5.15	2.28	2.08	55	3.90	.65	2.29	-1.01	1.75	-2.57	2.14	-1.36
DALECARLIA RESERVOIR	7.23	4.26	2.85	14	9.23	5.71	2.76	74	1.56	-2.63	2.54	-1.07
GLENN DALE BELL STN	5.19	2.18	2.49	31	3.97	.62	2.35	-1.08	.80	-3.66	2.50	-1.36
LAUREL 3 W	5.08	2.20	M 2.96		3.84	.36	2.66	75	1.53	-3.00	1.98	-1.73
ID SCI CTR BALTIMORE R												
MATIONAL ARBORETUM DC	5.25	2.11	1.93	-1.08	4.52	1.18	2.38	89	1.04	-3.13	2.87	93
PPER MARLBORO 3 NNW	M 5.05		2.02	72	4.99	1.63	2.25	-1.13	1.40	-2.69	2.95	91
-DIVISIONAL DATA>	5.43	2.38	2.34	60	4.84	1.43	2.43	89	1.42	-2.80	2.56	-1.14
NORTHERN EASTERN												
SHORE 05												
HESTERTOWN	4.84	1.66	3.46	.40	4.03	.38	2.43	81	1.12	-2.91	3.41	94
MILLINGTON 1 SE	M 4.79	1 57	2.87	10	M 4.28	40	2.82	51	1.20	-2.82	2.44	-1.58
DIVISIONAL DATA>	4.84	1.57	3.17	.13	4.03	.48	2.63	65	1.16	-2.85	2.93	-1.06
NORTHERN CENTRAL 06 ABERDEEN PHILLIPS FIEL	5.05	2.01	2 60	10	5.09	1.80	2 26	-1.20	м 1 40		M 2.78	
BALTIMORE CITY R	M 5.05	2.01	2.60 M	10	5.09 M	1.80	2.36 M	-1.20	M 1.49 M		M 2.78	
CATOCTIN MOUNTAIN PARK	8.59		3.47		3.94		3.54		2.29		3.29	
CLARKSVILLE 3 NNE	5.34		2.84		M 3.03		2.20		1.39		M 3.29	
CONOWINGO DAM	M 5.76		3.19	.24	5.65	2.15	M 3.39		M 2.15		4.02	28
AMASCUS 3 SSW	6.09		2.90	.21	3.65		2.34		2.58		2.00	
EMMITSBURG 2 SE	M 6.20		2.76	31	3.26	27	3.55	22	1.70	-2.65	2.05	-1.96
REDERICK POLICE BRKS	4.61		3.92		3.28		3.24		1.27		1.29	
IILLERS 4 NE	6.09		2.97		3.30		3.11		2.65		2.56	
POTOMAC FILTER PLANT	5.11	2.58	2.54	.02	3.87	.93	2.59	40	1.95	-1.80	1.43	-2.25
ROCKVILLE 1 NE	5.77	2.92	2.65	18	3.95	.59	2.44	75	1.66	-2.52	1.29	-2.47
OODSTOCK	6.60	3.38	3.11	.10	3.85	.14	3.25	25	1.25	-3.22	1.97	-1.90
DIVISIONAL DATA>	6.02	2.94	3.04	.07	4.00	.47	2.89	64	1.85	-2.52	2.31	-1.67
APPALACHIAN												
MOUNTAIN 07		1			2 56		4 10	1 22	0 55	1 1 1	2 21	
CUMBERLAND 2	4.15	1.77	1.31	98	3.56	.48	4.19	1.00	2.55	-1.11	2.21	-1.13
UMBERLAND POLICE BRK	2.59 5.07		1.39		M 2.87		4.87		3.13		2.56	
ROSTBURG 2	M 2.49		1.88		4.19		5.59		3.16		1.54	
IAGERSTOWN POLICE BRK HARPSBURG 5 S	M 2.49 5.39		1.42 1.49		M .08 4.27		M .66 2.36		M .86 1.84		1.34 2.61	
DIVISIONAL DATA>	4.30	1.69	1.49	-1.05	4.27	.70	4.25	.81	2.67	-1.26	2.61	-1.40
ALLEGHENY PLATEAU 08	4.30	1.09	1.50	-1.05	4.01	./0	4.43	.01	2.07	-1.20	2.05	-1.40
DAKLAND 1 SE	4.97	1.78	2.71	24	4.49	.42	5.52	1.18	1.74	-2.97	1.29	-3.09
SAVAGE RIVER DAM	M 4.87	1.70	1.88	36	3.54	.29	5.19	1.78	4.42	.49	1.02	-2.33
DIVISIONAL DATA>	4.97	1.79	2.30	65	4.02	.06	5.36	1.29	3.08	-1.29	1.16	-2.92

STATION MARYLAND SOUTHERN EASTERN SHORE 01 ASSATEAGUE ISLAND PRINCESS ANNE SALISBURY	M 1.47 3.19	DEPART.	AU PRECIP.	DEPART.	SI PRECIP.	DEPART.	OC PRECIP.	DEPART.	NO PRECIP.	DEPART.	DE PRECIP.	DEPART.	ANN PRECIP.	DEPART.
SOUTHERN EASTERN SHORE 01 ASSATEAGUE ISLAND PRINCESS ANNE	M 1.47	DLITH.	TRECIT.	DEI/IKI.	TRECIT.	DEITHG.	TILLCII.	DEITHIL.	TILL CIT.			DEITHEI.	i ideeii.	
SOUTHERN EASTERN SHORE 01 ASSATEAGUE ISLAND PRINCESS ANNE														+
SHORE 01 ASSATEAGUE ISLAND PRINCESS ANNE														
ASSATEAGUE ISLAND PRINCESS ANNE														
PRINCESS ANNE														
	3.19		3.60		7.82		5.53		.91		2.02		M 41.53	
SALISBURY		81	5.02	07	11.70	7.95	3.88	.63	1.28	-1.86	2.19	-1.06	44.86	2.08
	4.62	.60	5.42	.43	9.55	6.00	3.97	.74	2.26	81	2.92	61	49.80	5.49
SALISBURY FAA ARPT	4.47	.14	4.66	67	9.06	5.37	5.35	1.93	2.38	77	2.33	-1.35	49.22	3.89
SNOW HILL 4 N	2.90	-1.20	4.15	-1.22	7.80	4.51	4.76	1.52	1.66	-1.56	2.49	95	42.96	-1.57
DIVISIONAL DATA>	3.80	25	4.57	30	9.19	5.78	4.70	1.52	1.70	-1.42	2.39	-1.02	45.80	2.55
CENTRAL EASTERN														
SHORE 02 ROYAL OAK 2 SSW	5.07	1.11	4.21	02	12.86	9.22	3.73	.58	2.37	-1.05	2.52	-1.20	50.73	6.68
VIENNA	4.79	.81	4.89	.02	M 3.79	9.22	2.99	01	1.49	-1.67	2.65	80	M 36.38	0.00
DIVISIONAL DATA>	4.93	.99	4.55	.15	12.86	9.35	3.36	.29	1.93	-1.39	2.59	97	48.11	4.78
LOWER SOUTHERN 03	1.55	• > >	1.55	• • • •	12.00	7.33	3.30	.23	1.75	1.35	2.33	• , ,	10.11	1.70
MECHANICSVILLE 5 NE	2.21	-2.01	6.61	2.55	11.75	8.00	3.50	.07	1.45	-2.06	2.25	-1.09	46.02	1.31
DIVISIONAL DATA>	2.21	-1.75	6.61	2.64	11.75	8.08	3.50	.26	1.45	-1.94	2.25	-1.08	46.02	3.46
UPPER SOUTHERN 04														
ANNAPOLIS POLICE BRKS	3.08	50	6.23	2.33	15.21	11.95	2.60	71	3.58	.13	4.22	.78	M 53.46	
BALTIMORE WSO ARPT R	2.06	-1.63	6.14	2.22	11.50	8.09	2.48	50	1.95	-1.37	2.96	45	43.94	3.18
BELTSVILLE	1.11	-2.98	4.26	.12	12.13	8.42	2.76	61	1.92	-1.32	M 1.32		M 40.81	
DALECARLIA RESERVOIR	.81	-3.08	4.54	.25	11.05	7.47	2.35	-1.15	1.84	-1.65	3.10	36	49.86	6.87
GLENN DALE BELL STN	.67	-3.49	5.97	1.65	11.02	7.40	2.54	89	M 2.59		2.69	59	M 42.78	
LAUREL 3 W	2.12	-1.86	4.55	.60	16.03	12.38	3.46	.05	2.02	-1.81	3.08	34	M 49.31	
MD SCI CTR BALTIMORE R	4.11		8.23		10.84		3.04		1.92		3.19			
NATIONAL ARBORETUM DC	.59	-3.79	4.46	.07	11.09	7.49	2.33	95	2.05	-1.35	2.73	60	41.24	-1.87
UPPER MARLBORO 3 NNW	.93	-3.09	6.73	2.77	11.05	7.45	2.34	-1.12	2.14	-1.20	2.67	60	M 44.52	4 07
DIVISIONAL DATA>	1.72	-2.29	5.68	1.51	12.21	8.63	2.66	65	2.18	-1.22	3.08	29	46.55	4.07
NORTHERN EASTERN SHORE 05														
CHESTERTOWN	4.06	.36	4.04	.08	18.09	14.45	3.14	.00	2.15	-1.24	2.46	-1.31	53.23	10.12
MILLINGTON 1 SE	3.15	64	4.81	.74	14.16	10.41	3.24	.11	2.44	87	2.38	-1.25	M 48.58	10.12
DIVISIONAL DATA>	3.61	19	4.43	.55	16.13	12.48	3.19	.05	2.30	-1.09	2.42	-1.27	50.84	8.15
NORTHERN CENTRAL 06	0.01	•			10110	12.10	0.13		2.00	1.00		1127	50.01	0.11
	M 1.17		3.76	67	14.36	10.47	M 3.75		M 2.96		3.06	55	М	
BALTIMORE CITY R														
CATOCTIN MOUNTAIN PARK	1.77		3.71		10.99		3.19		2.42		2.74		49.94	
CLARKSVILLE 3 NNE	1.44		4.31		10.10		2.75		2.14		2.87			
	M 2.05		3.40	-1.06	M 17.54		M 3.93		2.33	-1.41	3.21	58	M	
DAMASCUS 3 SSW	1.42		4.52		11.68		2.92		1.91		3.62		45.63	
EMMITSBURG 2 SE	1.39	-1.85	6.00	2.39	8.79	4.82	2.60	85	1.71	-1.98	2.94	33	M 42.95	
FREDERICK POLICE BRKS	2.50 1.54		5.17 5.48		8.70		2.42		1.80		3.01		41.21	
MILLERS 4 NE		1 06		1 52	9.94	7.04	2.79 3.10	0.7	1.85	1 50	3.66	0.4	45.94	4 20
POTOMAC FILTER PLANT ROCKVILLE 1 NE	1.59 1.07	-1.96 -2.64	5.14 4.57	1.53 .58	10.69 10.01	7.04 6.48	2.94	.07 40	1.77 1.93	-1.52 -1.37	3.07 2.83	.04 24	42.85 41.11	4.28
WOODSTOCK	1.65	-2.64 -1.80	4.57	.63	10.01	8.82	2.94 3.44	40 .21	1.93 M	-1.3/	2.83 M	24	41.11	.00
DIVISIONAL DATA>	1.60	-2.20	4.20	.66	10.78	7.07	2.88	46	2.01	-1.57	3.10	37	44.99	1.78
APPALACHIAN	1.00	-2.20	4.51	.00	10.76	/.0/	2.00	40	2.01	-1.57	3.10	57	44.33	1.70
MOUNTAIN 07														
CUMBERLAND 2	.69	-2.68	3.46	.16	4.33	1.25	2.41	36	2.05	71	1.90	71	32.81	-3.02
CUMBERLAND POLICE BRK	.95		2.99		3.49		2.23		.57		M 2.06		M 29.70	
FROSTBURG 2	1.69		1.92		4.08		2.50		2.82		2.00	[36.44	
	M .31		.50		5.93		2.07		M .43		1.61		M	
SHARPSBURG 5 S	3.83		2.46		9.40		2.11		1.45		2.77	[39.98	
DIVISIONAL DATA>	1.79	-1.75	2.27	-1.07	5.45	2.25	2.26	91	1.72	-1.39	2.07	75	34.34	-4.13
ALLEGHENY PLATEAU 08										_				
OAKLAND 1 SE	3.70	-1.42	2.39	-1.78	3.58	.31	3.34	.15	3.94	.30	2.32	-1.42	39.99	-6.78
SAVAGE RIVER DAM	2.37	-1.84	1.76	-1.43	3.33	.22	2.36	57	2.67	18	1.64	-1.10	M 35.05	
DIVISIONAL DATA>	3.04	-1.82	2.08	-1.75	3.46	.14	2.85	32	3.31	25	1.98	-1.70	37.61	-7.42

1999		EB				AY	T	IIN
STATION	DEPARTURE	DEPARTURE	DEPARTURE	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
DELAWARE NORTHERN 01 NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT R WILMINGTON PORTER RSVRDIVISIONAL DATA> SOUTHERN 02 DOVER GREENWOOD 2 NE LEWESDIVISIONAL DATA>	AN DEPARTURE 3.13 2.38 2.58 3.15 1.03 2.49	EB DEPARTURE .89 .60 .72628083	1.61 .53 1.26 1.16 1.18 1.10 1.23	PR DEPARTURE .05035913 -1.13 -1.93		AY DEPARTURE 94286256 -3.09 -2.39 -2.89		UN DEPARTURE -2.08 -1.93 -2.16 -2.00 -1.378395

1999									CIVIAL (I		,			
STATION	Л	ЛL	AU	IG	SI	ΞP	00	T	NC	V	DE	EC	ANN	UAL
STATION	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.
DELAWARE NORTHERN 01 NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT R WILMINGTON PORTER RSVRDIVISIONAL DATA> SOUTHERN 02	.55 .89 2.39 1.28	-3.97 -3.34 -2.00 -2.94	6.74 4.24 6.36 5.78	2.74 .84 2.31 2.15	12.01 12.68 14.03 12.91	8.33 9.25 10.08 9.29	3.64 3.42 4.05 3.70	.47 .54 .75 .57	2.03 2.09 2.47 2.20	-1.25 -1.18 -1.33 -1.21	3.27 2.94 3.08 3.10	23 54 76 46	51.36 47.68 M 57.52 51.62	8.75 6.84 9.17
DOVER GREENWOOD 2 NE LEWESDIVISIONAL DATA>	2.42 2.16 1.79 2.12	-1.73 -2.19 -1.77	3.53 4.30 3.44 3.76	72 -1.80 -1.02	10.51 14.03 8.12 10.89	6.17 5.03 7.25	2.93 3.64 5.05 3.87	33 1.88 .64	2.74 1.77 2.02 2.18	41 -1.26 -1.03	2.53 2.57 2.77 2.62	-1.01 91 97	44.23 49.12 42.16 45.17	.09 -2.15 1.22

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

1999	TA	NT.	171	7D	14			D	1 1 1	. I. (D	111	NI			ATI					YT.	NIC	N 7	DE	·C	A NTNT	TIAT
STATION	JA	NIN:	FE		M/	1	AP	'K	MA	ΛΥ	JU	IN	JU	L	AU	Ú	SE	LP	OC	<u> 1</u>	NC	, V	DE	ıC	ANN	UAL
SIMION	TEMPERATURE	DEPARTURE	IEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	IEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE
	F				F						L		Г										-		-	
MARYLAND SOUTHERN EASTERN SHORE 01																										
ASSATEAGUE ISLAND PRINCESS ANNE	41.5 M		M40.5 M		43.4 M		54.2 M		62.8 M		70.1 M		79.0 M		77.3 M		71.4 M		60.9 M		53.9 M		43.3 M		M58.2 M	
SALISBURY	42.2													4.5							54.6				59.4	
SALISBURY FAA ARPT SNOW HILL 4 N	40.8							2.0	63.9	.7	71.5 72.2	4	80.2 79.5	3.5			69.7 70.5									
DIVISIONAL DATA>	41.4					-2.2 -1.8			64.3 64.2			.3 3		3.7 3.4												
CENTRAL EASTERN	41.5	0.2	40.7	3.3	43.0	-1.0	33.4	1.2	04.2	.,	71.9	3	80.0	3.4	//.1	1.4	70.0	1.1	30.4	3	33.4	3.0	42.9	2.0	30.3	1.0
SHORE 02 ROYAL OAK 2 SSW	40.3	6.2	40.2	3.7	44 3	-1.4	55.6	.7	65.1	.2	74.4	a	80.9	3 /	77.5	1 3	70.3	5	58.0	_1 1	54 3	4.9	42.4	3 3	58.6	1.9
VIENNA	M42.3		M39.8		M44.5		M56.7		66.5		1		M81.4		M77.6		M70.1	.2		-1.1	M54.9		M43.4		1	1.,
DIVISIONAL DATA>	41.3		40.0						65.8				81.2		77.6				58.0	8	54.6		42.9		58.8	2.2
LOWER SOUTHERN 03																										
MECHANICSVILLE 5 NEDIVISIONAL DATA>	39.0 39.0			3.1 2.6				1.3	63.9 63.9	.0 5		3 9	78.8 78.8	2.6		1.2	67.9 67.9	.0 -1.1				4.7 3.7				
UPPER SOUTHERN 04																										
ANNAPOLIS POLICE BRKS	38.6		M40.8		M44.1				M66.2	1.6			M81.6	4.0				.7				6.0			M58.8	
BALTIMORE WSO ARPT R								2		.8				3.0			68.2	3							55.9	
BELTSVILLE	36.2								64.2					4.1			68.7						M40.0		M56.4	
DALECARLIA RESERVOIR GLENN DALE BELL STN	M38.3 36.3					-2.8	M58.0		66.4 63.1				M82.6 79.5	5.4 4.0			M69.1 67.1	.0							M58.8 55.5	
LAUREL 3 W	36.8											1.3	81.9	4.0	1 :		69.9	6 1.2					1 :		58.1	
MD SCI CTR BALTIMORE R	30.0	4.0	39.0	5.1	43.1	-1.3	33.3	1.5	00.9	3.1	/3.0	1.3	83.2	4.9	78.3	2.1	71.1	1.2	58.0		52.9	3.3	42.1		м 20.1	2.0
NATIONAL ARBORETUM DC	37.2	4.6	38.4	3.2	42.8	-2.0	56.0	2.0	66.4	2.4	75.0	2.3	83.1	6.1		3.9	69.2	.6	1 1 1 1 1 1 1 1			4.8	1		57.9	2.4
UPPER MARLBORO 3 NNW	36.7							.9			71.7	.6	79.3	4.0	76.4		67.7	.8								
DIVISIONAL DATA>	36.9	4.5	38.7	3.5	42.6	-2.0	55.1	1.2	65.3	1.6	73.0		81.2	4.6			69.1	.6	55.7		52.1	4.9	40.2	3.1	57.3	2.0
NORTHERN EASTERN																										
SHORE 05																										
CHESTERTOWN	36.8					-1.0			65.1		72.8		80.2		76.7		69.3		55.6						56.9	1.6
MILLINGTON 1 SE	M36.9		M38.0		M42.2				M63.0		M72.2				M77.6		M68.6		M57.2		M51.6					
DIVISIONAL DATA> NORTHERN CENTRAL 06	36.9	4.7	38.0	3.1	42.6	-1.6	54.4	1.0	64.1	.6	72.5	. 3	80.2	3./	77.2	2.0	69.0	. 4	56.4	9	51.4	3.9	39.8	2.8	56.9	1.7
ABERDEEN PHILLIPS FIEL	м		M40.7	5.6	M43.8	- 5	м55.7	1.9	м		м73.8	1.8	м		M76.4	1.4	м		м		M50.4	2.9	м		м	
BALTIMORE CITY R	41.5	6.6		3.0	47.7		58.0					1.0			11,0.1		1		1		1150.1	2.5			1.	
CATOCTIN MOUNTAIN PARK	31.6		35.6		38.1		52.7		62.7		68.8		76.9		71.6		64.7		53.7		49.5		36.8		53.6	
CLARKSVILLE 3 NNE	M33.9		35.5		40.7		52.2		62.6		М		78.5		74.6		66.7		53.1		49.5		37.6		M	
CONOWINGO DAM	M36.0				M		M		M64.1				M		M		м70.3	3.3	M56.3		M52.1	7.6	1 :		M	
DAMASCUS 3 SSW	33.3		36.8		40.2		52.2		62.6		69.6		77.9		73.5		65.6	_	53.2		49.8		37.9		54.4	
EMMITSBURG 2 SE	33.1			4.7				1.3	60.6	8		.9		4.2		1.1		.3				4.9			54.7	
FREDERICK POLICE BRKS MILLERS 4 NE	35.0 33.1		39.1		42.9		55.6 52.8		65.3		73.4		M81.2		76.6 73.1		68.4		55.1 53.3		52.1 49.6		38.8		M57.0 54.4	
ROCKVILLE 1 NE	35.9	5.2		5.0				2.3	64.2	2.2		2.4	80.7	6.0		2.7	67.9	2 2	M54.8				39.3		M56.4	
WOODSTOCK	35.1								63.9			1.2	79.9	4.5			67.6	.5				1	м	7.2	М	3.0
DIVISIONAL DATA>	34.9		37.4				54.1							3.7	1		67.0		54.1			4.6	38.6	3.2	55.6	1.7
APPALACHIAN																										
MOUNTAIN 07																										
CUMBERLAND 2	32.5			3.0				.9		. 4		.0		5.2			66.2	5				3.7	36.1		54.7	
CUMBERLAND POLICE BRK	31.3		34.9		38.6		54.3		61.8		69.1		77.8		72.5		M65.0		52.9		47.1		M35.6		M53.4	
FROSTBURG 2	28.0		31.0		31.8		48.6		58.3		66.0		73.3		68.2		61.5		49.6		45.6		32.0		49.5	
HAGERSTOWN POLICE BRK SHARPSBURG 5 S	M33.9 32.9		38.3		M41.3 38.1		M55.0 51.7		63.8 M61.4		M71.6 70.0		79.9 77.2		75.5 M72.6		67.1 65.3		54.5 M51.4		50.7 48.9		37.8 35.6		M55.8 M53.4	
DIVISIONAL DATA>	32.9							1.3	1			.3		4.5		.6			52.5	:	1		l i		53.4 53.4	
ALLEGHENY PLATEAU 08	31.7		33.2	J.4	33.0	3.3	32.0	1.3	01.0		57.5	• 3	,,.,	4.5	'2.3	. 0	55.0	- • 2	32.3	1.5	13.1	***	33.4	1.0	33.4	1.2
OAKLAND 1 SE	30.1	4.5	32.5	4.7	32.6	-4.9	50.0	3.3	57.4	1.1	64.9	1.1	72.5	4.8	66.9	.3	60.4	.0	50.1	.5	44.6	4.5	32.8	2.5	49.6	1.9

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

1999	JA	N	FE	B R	M/		AP		MA		JU		Л		AL	IG	SE		00	T	NC	N /	DE	<u> </u>	ANN	ΙΔΙ
STATION	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
SAVAGE RIVER DAMDIVISIONAL DATA>	28.8		31.3		33.2 32.9		49.1		58.2		67.2				69.8		61.6				45.5		33.2	2.9	50.2	1.7
DELAWARE NORTHERN 01 NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT R WILMINGTON PORTER RSVRDIVISIONAL DATA> SOUTHERN 02	35.2 34.8 34.3 34.8	4.2 4.2		3.5 3.8	41.7 41.0	-1.0 8	54.2 52.7 53.0 53.3	.5 1.5	62.9	.4 1.5	71.7	.1 .9	81.1 80.0 79.9 80.3	3.6 4.7	77.1 75.8 75.8 76.2	.8 2.0		.1 1.3	53.8 54.3	-2.4 -1.3	50.4 49.4 49.5 49.8	3.1 3.8	38.8 38.4	3.0 3.1	56.5 55.5 55.5 55.8	1.3
DOVER GREENWOOD 2 NE LEWESDIVISIONAL DATA>	38.6 38.2 41.7 39.5	7.2	37.2 41.7	5.1	42.8 41.4 44.5 42.9	1	54.4 52.8 55.7 54.3	2.4	62.7	1.8	72.2 70.8 73.8 72.3	2.2		5.3	76.8 76.3 78.9 77.3	4.0	69.2 69.3 71.0 69.8	1.8		1.4	52.7 52.0 54.5 53.1	5.0		3.7	57.3 56.2 59.2 57.6	3.3

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

1999						I	LAST	SPR	ING I	ΛIN	IMUN	1 OI	7				FIRS	- \ Γ F/		1INI	MUM	OF	1				BER OF		,
STATION	HIGHEST	DATE	LOWEST	DATE	16° C BELC		20° C BELC		24° C BELC		28° C BELC		32° C BELC		32° C BELO		28° O BELC		24° C BELC		20° C BELC		16° C BELC		BELOW	BELOW	BELOW	BELOW	BELOW
	ĬĦ		77	П	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	16° OR B	20° OR B	24° OR B	28° OR B	32° OR B
MARYLAND SOUTHERN EASTERN SHORE 01																													
ASSATEAGUE ISLAND PRINCESS ANNE	102		10		1/ 6 MSG	10	3/ 8 MSG		3/ 8 MSG		3/11 MSG		MSG		11/17 MSG		MSG		12/23 MSG		NONE MSG		NONE MSG					251	
SALISBURY	99	7/6	12		1/6	12	3/8		3/9		3/12		3/27		11/18		11/18	27	12/ 1		12/25						267		
SALISBURY FAA ARPT SNOW HILL 4 N CENTRAL EASTERN	100 101		8		1/ 6 2/23	8 13	3/8 3/9		3/ 9 3/ 9	23	3/23 4/ 6		4/ 6 4/21	31 32	11/ 5 11/ 5		11/17 11/ 8	27 28	11/18 11/17		12/23 12/23		NONE 12/25	12	305		254 253		
SHORE 02 ROYAL OAK 2 SSW VIENNA	101 100		12 13	1/ 6 1/ 6	1/ 6 1/ 6	12 13	2/23 3/8		3/ 8 3/ 9		3/10 3/11			30 32	11/ 8 MSG	32	11/18 12/ 1		12/23 12/ 1		NONE 12/25	19	NONE MSG			292	290 267	253 265	226
LOWER SOUTHERN 03 MECHANICSVILLE 5 NE UPPER SOUTHERN 04	97	7/31	7	1/ 6	2/23	15	3/8	19	3/ 9	24	3/23	26	4/ 6	30	11/ 4	31	11/17	25	11/18	23	12/ 2	20	12/25	16	305	269	254	239	212
ANNAPOLIS POLICE BRKS BALTIMORE WSO ARPT BELTSVILLE	R 100 R 102 102	7/5	10 7 9	1/ 6	3/14 2/ 1 2/23	12 16 16	3/14 3/ 8 3/ 8	18	3/14 3/ 9 3/10	24	3/14 3/23 3/23	12 28 26		32 32 32	11/ 4 11/ 4 11/ 4	32	11/29 11/17 11/18			24	12/25 12/23 12/23	20	12/25			290	262 254 281	239	212
DALECARLIA RESERVOIR GLENN DALE BELL STN LAUREL 3 W	102 102 103	8/ 1 7/31	9 4 14	1/ 6 1/ 6	3/ 9 3/ 8 1/ 6	16 16 14	3/ 9 3/ 9 3/ 8	16 20	3/15 3/23 3/11	24 24	3/15 3/31 3/12		3/31 4/25 4/13	31 29	11/17 10/25 11/ 4	30	11/18 11/ 4	25 25	12/25	18 24	12/25 12/25 12/1 12/25	18 18	NONE 12/2			291 267	285 239 265	248 218	231 183
MD SCI CTR BALTIMORE NATIONAL ARBORETUM DC	R 104		7	1/ 6	MSG 3/9	12	MSG 3/9	12	MSG 3/10	22	MSG 3/23	27	MSG 3/26	31	11/30 11/ 4	31 31	12/ 1 11/18	27 24	12/24 11/18	24 24	12/25 12/23	20 20	NONE NONE			289	253	240	223
UPPER MARLBORO 3 NNW NORTHERN EASTERN SHORE 05			6	1/ 7	2/23	15	3/9	18	3/10	24	3/23	27	3/31	32	11/ 4	30	11/18	24	11/18	24	12/23	20	NONE			289	253	240	218
CHESTERTOWN MILLINGTON 1 SE NORTHERN CENTRAL 06	101	7/5	11 8		2/23 2/23	15 15	3/ 9 3/ 9		3/ 9 3/ 9		3/13 3/23	28 28			11/ 5 11/ 5		11/17 11/18		12/ 1 11/18		12/23 12/23		NONE 12/25	15	305		267 254		
ABERDEEN PHILLIPS FIEL BALTIMORE CITY	R	7/7		1/6	2/23 MSG	15	3/ 8 MSG		3/ 9 MSG		3/23 3/ 9	28 25	3/11		MSG MSG	21	MSG MSG	2.0	MSG MSG	22	MSG MSG	1.6	MSG MSG	16	260	265	250	225	104
CATOCTIN MOUNTAIN PARK CLARKSVILLE 3 NNE CONOWINGO DAM		7/31	6 3	1/ 6	3/ 8 2/23 MSG	9 12	3/11 3/ 8 MSG	17	3/16 3/23 MSG	24	3/26 3/31 MSG	27	4/26 MSG		11/ 4 10/15 11/ 4	32 30	11/16 11/ 5 MSG	26	11/30 11/18 MSG	20	12/ 1 11/18 MSG	20	12/25 MSG	13	305	255	259 240	219	172
DAMASCUS 3 SSW EMMITSBURG 2 SE FREDERICK POLICE BRKS	98 98 99	7/31 8/17 7/31	6 2 8	1/ 6	3/8 3/8 3/8	13 14 15	3/8 3/9 3/8	20	3/11 3/26 3/11	24	3/26 4/24 3/20	26 26 28	5/2	32 32 31	11/ 4 10/15 11/17	31 22 32	11/18 10/15 11/18	26 22 26		22	12/ 1 11/18 12/25	19	NONE	13	292	254	265 203 265	174	166
MILLERS 4 NE ROCKVILLE 1 NE WOODSTOCK	97 101 101		4 7	1/ 6 1/ 6	3/ 8 3/ 8 3/11	14 16 15	3/ 8 3/ 8 3/11	16	3/11 3/11 3/11	23 23 15	3/26 3/12 4/14		3/27	32	10/28 11/ 4 10/15	31	11/ 4 11/18 MSG		11/17 12/ 1 MSG		12/ 1 12/24 MSG			15	291		251 265		
APPALACHIAN MOUNTAIN 07																													
CUMBERLAND 2 CUMBERLAND POLICE BRK FROSTBURG 2	104 99 94	7/31 7/24 8/14	-3 -1		3/ 8 3/ 8 3/13	12 9 14	3/10 3/12 3/14	20	3/12 3/27 3/27		3/26 3/27 3/27	23		32	10/27 10/15 10/ 8	31	11/ 4 11/ 5 11/ 4	27	11/17 11/18 11/18	21	11/30 12/ 2 12/ 1	19	12/24 12/24 12/ 1	14	291	265		223	172
HAGERSTOWN POLICE BRK SHARPSBURG 5 S ALLEGHENY PLATEAU 08	100 99		5 4		3/ 8 3/ 9	13 11	3/ 8 3/12		3/22 3/27		3/24 4/25		3/31 4/26		10/28 10/25		11/18 11/ 4		11/18 11/18		12/ 2 12/ 1		12/25 12/ 1				241 236		
OAKLAND 1 SE SAVAGE RIVER DAM	92 101		-7 0	, ,, ,	3/16 3/11		3/27 3/14		3/31 3/27		4/26 3/31				9/22 10/15		10/19 11/18		10/28 11/18				11/18 12/ 1						
DELAWARE NORTHERN 01		= 400						2.5			a (a-										10/0-								
NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT WILMINGTON PORTER RSVR	R 100 98	7/19		1/ 6 1/ 6 1/ 2	2/23 2/23 3/ 8	14	3/ 9 3/ 9 3/ 9	20	3/11 3/ 9 3/11	20	3/27 3/11 3/13	25	3/27	30	11/ 5 11/ 5 11/17	32	11/18 11/18 11/30	25	12/ 1	23	12/24	17	12/25 12/25 NONE		305	290		252	223

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

								LAST	SPF	RING	MIN	IMUN	4 OI	7				FIRS	T FA	ALL M	1IN	IMUM	OF				NUM BET	BER O WEEN	F DAYS DATES	S
STATION		HIGHEST	DATE	LOWEST	DATE	16° (BEL	OR OW	20° BEL	OR .OW	24° BEL	OR OW	28° C BELO	OR OW	32° C BELO	OR OW	32° (BEL	OR OW	28° C BELO	OR OW	24° (BEL	OR OW	20° (BEL	OR OW	16° BEI	OR	OR BELOW	ELOW	OR BELOW	OR BELOW	EI OW
		Ħ	П	I		DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	16° OR B	20° OR BELOW	24° OR B	28° OR BELOW	12° OR B
SOUTHERN DOVER GREENWOOD 2 NE LEWES	02	98 98	7/ 4 8/ 1 7/ 6	11 9	1/ 6 1/ 6 1/ 6	2/23 2/23	15 15	3/8	17 19	3/11 3/10	24 24	3/13 3/23	28 28	3/27 4/ 6	32 31	11/ 8 11/ 8	32 31	12/ 1 11/18 12/ 1	23 24	12/ 1 11/18	23 24	12/25 12/25	18 18	NONE NONE	TEMP	16° OR	292 291	265	රි දිදි 263 240 265	22

MONTHLY AND SEASONAL COOLING DEGREE DAYS BASE = 65 DEGREES FAHRENHEIT

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
MARYLAND SOUTHERN EASTERN														
SHORE 01 ASSATEAGUE ISLAND	0	в 0	0	0	54	165	439	387	201	39	0	0	B1285	
PRINCESS ANNE	-	-		-							-	-		1097
SALISBURY SALISBURY FAA ARPT	0	0	0	9	101 66	272 213	516 481	413 357	194 174	23 11	3 1	0 0	1531 1304	1190 1096
SNOW HILL 4 N CENTRAL EASTERN	0	0	0	14	80	231	459	375	190	22	0	0	1371	1053
SHORE 02														
ROYAL OAK 2 SSW	0	0	0	3	78	288	499	393	181	17	1	0	1460	1245
VIENNA	В 0	В 0	в 0	В 3	119	259	В 513	В 400	В 178	-	в 0	В 0	-	1292
LOWER SOUTHERN 03 MECHANICSVILLE 5 NE	0	0	1	9	58	211	436	342	127	8	0	0	1192	1058
UPPER SOUTHERN 04	"		1		36	211	430	342	127		0		1192	1036
ANNAPOLIS POLICE BRKS	0	в 0	в 0	7	в 88	287	в 518	402	191	10	2	0	B1505	1271
BALTIMORE WSO ARPT R	0	0	0	0	54	210	471	340	138	0	0	0	1213	1137
BELTSVILLE	0	0	0	3	66	240	466	375	151	3	0	В 0	B1304	954
DALECARLIA RESERVOIR GLENN DALE BELL STN	B 0	0	0	B 20 0	100 42	286 207	В 547 456	468 333	В 154 118	17	6 0	0 0	B1598 1156	1213 984
LAUREL 3 W	0	0	0	0	111	271	529	405	174	8	0	0	1498	1165
MD SCI CTR BALTIMORE R							572	420	204	11	ő	Ö	-	1103
NATIONAL ARBORETUM DC UPPER MARLBORO 3 NNW	0	0	0	14 3	99	312 225	568 449	458 359	165 127	9 4	0	0	1625 -	1160 944
NORTHERN EASTERN														
SHORE 05		0	0	0	7.2	246	401	270	162	4			1227	1120
CHESTERTOWN MILLINGTON 1 SE	B 0	В 0	В 0	1	73 B 56	246 B 224	481	370 B 415	163 B 128	B 10	B 0	0 0	1337	1139 980
NORTHERN CENTRAL 06	1 5 0	5 0	В	-	Б 30	B 224	_	B 413	B 120	B 10	В 0		_	900
ABERDEEN PHILLIPS FIEL	_	в 0	в 0	в 5	_	В 276	_	в 361	_	_	в 0	_	_	1087
BALTIMORE CITY R	0	-	1	14	199	-	_	_	_	-	-	_	-	1608
CATOCTIN MOUNTAIN PARK	0	0	0	3	39	154	375	216	67	1	0	0	855	
CLARKSVILLE 3 NNE CONOWINGO DAM	B 0 B 0	0	0	0	41 B 55	_	424	306	106 B 177	B 3	B 0	0	_	935
DAMASCUS 3 SSW	B 0			3	36	171	408	272	86	0	B 0		976	933
EMMITSBURG 2 SE	o o	Ö	Ö	5	22	187	420	283	94	ı î	Ö	Ö	1012	811
FREDERICK POLICE BRKS	0	0	0	3	72	262	в 500	366	143	5	0	0	B1351	
MILLERS 4 NE	0	0	0	0	41	174	402	258	97	0	0	0	972	
ROCKVILLE 1 NE WOODSTOCK	0	0	0	2 0	65 55	252 226	494 469	339 322	135 122	B 2 4	0	0	B1289	889 956
APPALACHIAN	"					220	409	322	122	1 4	_	_	_	950
MOUNTAIN 07														
CUMBERLAND 2	0	0	0	3	46	205	481	285	97	2	1	0	1120	952
CUMBERLAND POLICE BRK	0	0	0	2	20	162	407	244	В 77	1 0	0	В 0	B 913	
FROSTBURG 2 HAGERSTOWN POLICE BRK	B 0	0	B 0	B 0	11 38	104 B 205	272 470	127 334	29 122	0 4	0	0	543 B1173	
SHARPSBURG 5 S	B 0	0	0	0	B 29	184	388	B 242	92	В 0	0	0	В 935	
ALLEGHENY PLATEAU 08										-			2 300	
OAKLAND 1 SE	0	0	0	0	2	82	245	87	32	0	0	0	448	277
SAVAGE RIVER DAM	0	0	0	0	7	127	340	167	34	0	0	0	675	388
DELAWARE														
NORTHERN 01 NEWARK UNIVERSITY FARM	0	0	0	0	43	253	504	382	153	5	0	0	1340	1033
WILMINGTON WSO ARPT R	0	0	0	0	40	211	476	342	139	1	0	0	1209	1033
WILMINGTON PORTER RSVR	0	ő	Ö	ő	50	217	469	342	136	i	ő	0	1215	930
SOUTHERN 02														
DOVER	0	0	0	2	58	229	454	373	153	17	0	0	1286	1199
GREENWOOD 2 NE	0	0	0	0	46	199	411	356	163	6	0	0	1181	1

Heating Degree Days data found in July issue of Climatological Data

MONTHLY AND SEASONAL COOLING DEGREE DAYS BASE = 65 DEGREES FAHRENHEIT

MARYLAND AND DELAWARE

1999				DASE	- 03 DE	OKEES	THINL	111111						
STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONA NORM
EWES	0	0	0	2	87	272	509	438	194	27	2	0	1531	1066
									1					

TOTAL EVAPORATION AND WIND MOVEMENT

							V IVIO V L						
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
ID AP K TEMP I TEMP	- - -	- - - -		B 1833 B 4.78 M 65.3 M 42.4	B 1848 B 6.76 M 77.2 M 51.6	B 1871 B 6.85 M 83.6 M 59.7	1477 7.79 M 88.8 M 65.9	1610 7.22 M 87.0 M 62.3	1606 B 5.05 M 77.1 M 56.1	1415 3.34 M - M -		- - - -	- - M - M -
ID AP K TEMP I TEMP	- - -	- - -	- - -	B 5.20 71.4 43.3	B 6.21 83.3 52.4	- 6.60 87.9 62.1	- B 7.19 94.9 68.9	B 6.99 91.8 66.2	B 4.84 82.3 60.8	- 69.3 47.5	B 2.57 61.8 43.1	- - -	– M – M –
ID AP K TEMP I TEMP	- - - -	- - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - -	- - - -
ID AP K TEMP I TEMP	- - - -	- - - -	- - - -	1212 - - -	989 B 6.30 - -	727 B 6.28 - -	635 B 7.60 - -	865 B 7.17 - -	952 - - -	- - - -	- 1.05 - -	- - -	- - -
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STATION INDEX

	NO.	NO.				ELEVATION		EARS C RECORE		OPE OR CI DURIN	OSED	SEE
STATION	INDEX	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION FEET	TEMP.	PRECIP.	EVAP.	MONTH	MONTH	REFERENCE NOTES
MARYLAND ABERDEEN PHILLIPS FIEL ANNAPOLIS POLICE BRKS ASSATEAGUE ISLAND BALTIMORE WSO ARPT R BELITSVILLE CATOCTIN MOUNTAIN PARK CHESTERTOWN CLARKSVILLE 3 NNE CONOWINGO DAM CUMBERLAND 2 CUMBERLAND POLICE BRK DALECARLIA RESERVOIR DAMASCUS 3 SSW EMMITSBURG 2 SE FREDERICK POLICE BRKS FROSTBURG 2 GLENN DALE BELL STN HAGERSTOWN POLICE BRK LAUREL 3 W MD SCI CTR BALTIMORE R MILLIRS 4 NE MILLIRS 4 NE MILLINGTON 1 SE NATIONAL ARBORETUM DC OAKLAND 1 SE POTOMAC FILTER PLANT PRINCESS ANNE ROCKVILLE 1 NE ROYAL OAK 2 SSW SALISBURY SALISBURY FAA ARPT # SAVAGE RIVER DAM SHARPSBURG 5 S SNOW HILL 4 N UPPER MARLBORO 3 NNW VIENNA WESTMINSTER POL BRKS WOODSTOCK DELAWARE	0015 0193 0335 0465 0470 0700 1530 1750 1862 2060 2282 2285 2325 2325 2336 2906 3348 3415 3675 3980 5111 5718 5865 5934 5985 6350 6620 7272 7300 7705 7806 8000 8005 8065 8207 8380 9970 9140 94750	06 04 01 04 06 05 06 06 07 04 06 06 07 04 04 03 06 05 06 07 04 00 05 00 00 00 00 00 00 00 00 00 00 00	HARFORD ANNE ARUNDEL WORCESTER ANNE ARUNDEL BALTIMORE (C PRINCE GEORG FREDERICK KENT HOWARD HARFORD ALLEGANY DISTRICT OF MONTGOMERY FREDERICK FREDERICK ALLEGANY PRINCE GEORG WASHINGTON PRINCE GEORG BALTIMORE (C ST. MARY'S CARROLL KENT DISTRICT OF GARRETT MONTGOMERY TALBOT WICOMICO WICOMICO GARRETT WASHINGTON WORCESTER PRINCE GEORG DORCHESTER CARROLL BALTIMORE	39 28 39 0 38 4 39 10 39 17 39 2 39 39 13 39 15 39 39 38 38 56 39 16 39 25 39 40 38 58 39 37 39 6 39 17 39 43 39 17 39 43 39 16 39 24 39 25 38 40 38 56 39 16 38 57 39 40 38 56 39 17 39 43 39 16 38 56 39 17 39 43 39 16 38 56 39 17 39 43 39 24 39 24 39 24 39 24 39 24 39 24 39 24 39 24 39 24 39 25 38 40 38 56 38 40 38 56 38 56 39 16 38 56 39 17 39 43 39 24 39 24 39 24 39 24 39 26 38 56 38 56 39 39 20 39 31 39 20 39 33 39 20	76 10W 76 31W 76 31W 76 41W 76 56W 76 56W 76 10W 78 45W 77 14W 77 18W 77 18W 77 18W 77 26W 78 56W 76 48W 76 54W 76 554W 76 37W 76 41W 76 559W 77 39W 77 15W 77 31W 77 47W 77 47W 77 47W 77 47W 77 47W 77 5 47W 77 5 47W 77 49W 77	57 25 10 148 14 145 1610 40 370 40 730 970 150 697 416 380 2168 150 560 400 20 100 860 30 50 2420 270 20 440 10 10 10 50 1495 50 10 10 10 10 10 10 10 10 10 10 10 10 10	75 42 33 66 130 62 34 95 32 65 28 80 3 110 1 39 14 103 0 52 53 53 94 45 55 43 52 85 43 52 85	75 42 33 66 130 62 34 95 32 65 28 29 80 3 110 139 14 103 39 54 103 59 53 53 53 22 85 43 52 21 131	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	JULY	MAY	С Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н
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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".

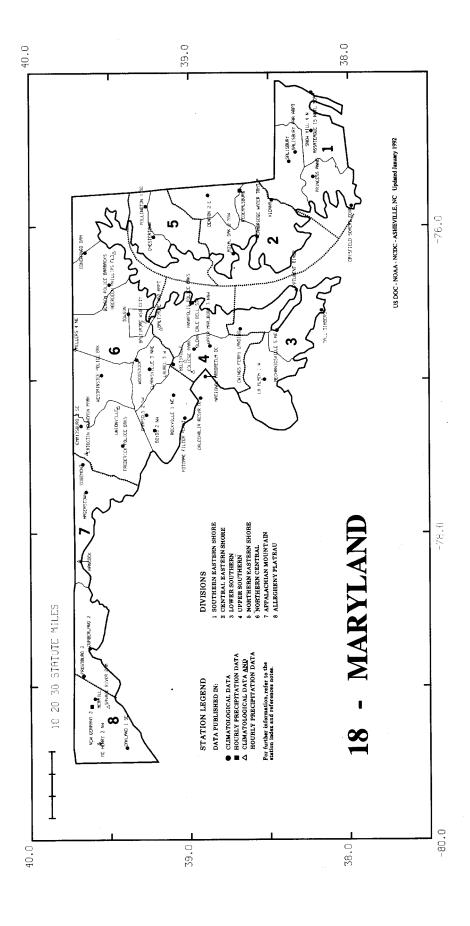
Additional precipitation data are contained in the "Hourly Precipitation Data" bulletin for each state, except Alaska.

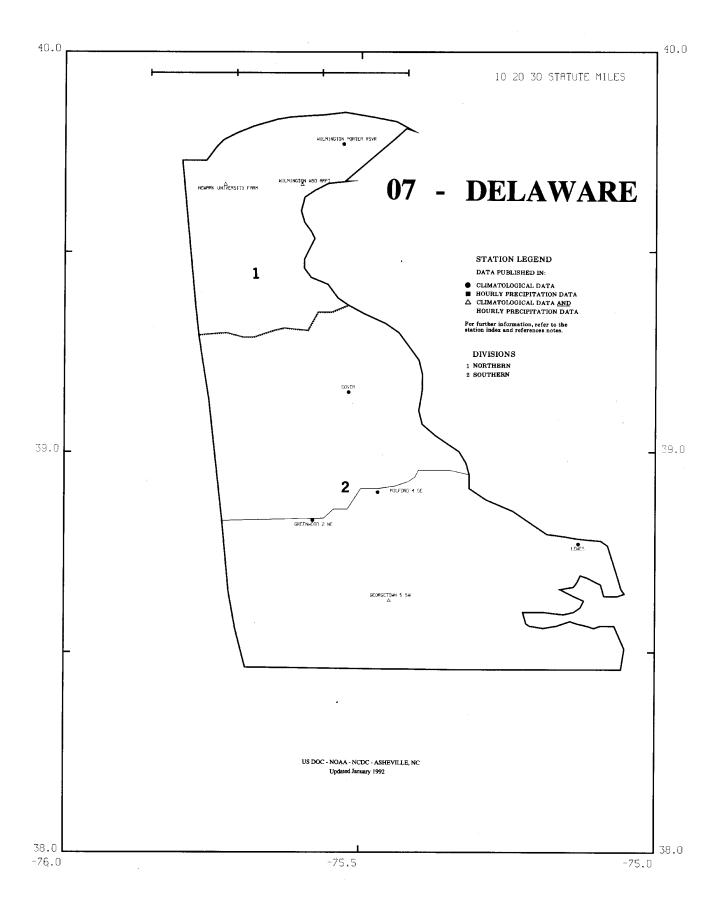
Information concerning the history of changes in locations, exposure, etc. of substations is kept on file at the National Climatic Data Center. Similar historical information of regular National Weather Service Offices is available from the "Local Climatological Data" annual bulletin.

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.

SUBSCRIPTION, PRICE, AND ORDERING INFORMATION AVAILABLE FROM:

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





These and other publications are available from the National Climatic Data Center

Hourly Precipitation Data

This publication contains hourly precipitation amounts obtained from recording rain gages located at National Weather Service, Federal Aviation Administration, and cooperative observer stations. Published data are displayed in inches and tenths or inches and hundreths at local standard time. **HPD** includes maximum precipitation for nine (9) time periods from 15 minutes to 24 hours, for selected stations.

Climatological Data

Monthly editions contain station daily maximum and minimum temperatures and precipitation. Some stations provide daily snowfall, snow depth, evaporation, and soil temperature data. Each edition also contains monthly summaries for heating and cooling degree days (65 degree F base). The July issue contains a recap of monthly heating degree days and snow data for the preceding July through June.

The Annual issue contains monthly and annual averages of temperature, precipitation, temperature extremes, freeze data, soil temperatures, evaporation, and a recap of monthly cooling degree days.

Storm Data

Monthly issues contain a chronological listing, by states, of occurrences of storms and unusual weather phenomena. Reports contain information on storm paths, deaths, injuries, and property damage. An "Outstanding storms of the month" section highlights severe weather events with photographs, illustrations, and narratives. The December issue includes annual tornado, lightning, flash flood, and tropical cyclone summaries.

Monthly Climatic Data for the World

This publication contains monthly means for temperature, pressure, precipitation, vapor pressure, and sunshine for approximately 2,000 surface data collection stations worldwide and monthly mean upper air temperatures, dew point depressions, and wind velocities for approximately 500 observing sites.

Local Climatological Data

LCD summarizes temperature, relative humidity, precipitation, cloudiness, wind speed and direction observations for several hundred cities in the U.S. and its territories. Each monthly publication also contains the 3 hourly weather observations for that month and an hourly summary of precipitation. Annual **LCD** publications contain a summary of the past calendar year as well as historical averages and extremes.

For Information Call: National Climatic Data Center

(828) 271-4800 (Voice) Room 120 (828) 271-4010 (TDD) 151 Patton Avenue

(828) 271-4876 (Fax) Asheville, NC 28801-5001

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