CLIMATOLOGICAL DATA ANNUAL SUMMARY

MARYLAND AND DELAWARE 1989

VOLUME 93 NUMBER 13



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DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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

MARYLAND AND DELAWARE 1989

STATION	JA	N	FE	В	MA	A R	AP	R	MΑ	Y	JL	IN
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
MARYLAND												
SOUTHERN EASTERN SHORE ASSATEAGUE IS NATL SEA CRISFIELD SOMERS COVE PRINCESS ANNE SALISBURY SALISBURY FAA ARPT SNOW HILL 4 NDIVISIONAL DATA>	1 . 8 4 1 . 9 2 1 . 8 5 2 . 0 6 1 . 8 0 1 . 9 6	- 1 . 4 8 - 1 . 2 3 - 1 . 3 2 - 1 . 8 3	4 . 3 7 2 . 9 7 3 . 0 1 3 . 7 3 3 . 6 2 3 . 7 3	2 9 . 5 1 . 4 0 . 0 2	7.70 6.15 7.00 7.32 M 7.12 8.10	2.11 3.01 3.10 3.50	M 6.27 4.76 3.93	2.96	2 . 6 9 2 . 3 0 2 . 4 2 2 . 3 0 3 . 4 6 2 . 6 3	9 4 9 3 7 0 - 1 . 0 8 . 0 3	2 , 9 0 3 , 7 4 7 , 1 8 8 , 2 7 6 , 1 6 3 , 7 8	3.77 4.65 2.61 02
CENTRAL EASTERN SHORE CAMBRIDGE WATER TRMT P DENTON 2 E ROYAL OAK 2 SSW VIENNADIVISIONAL DATA>	2 . 6 9 2 . 5 7 2 . 7 7 2 . 7 2 2 . 6 9	/ 5	3 . 2 6 3 . 8 5 3 . 6 5 4 3 . 0 7 3 . 5 8	. 9 3	5 . 5 1 5 . 1 1 5 . 1 5 7 . 0 1 5 . 7 0	3.09	5.65 5.95 5.19 5.43 5.56	2.35 2.63 1.78 2.09 2.29	5 . 0 1 7 . 8 4 8 . 6 0 3 . 3 6 6 . 2 0	4.97	6.93 M. 9.37 11.81 9.37	5.94
LOWER SOUTHERN 03 LA PLATA 1 W MECHANICSVILLE 5 NE OWINGS FERRY LANDING PATUXENT RIVER TALL TIMBERS	M 1 . 4 7 2 . 3 7 2 . 4 6 2 . 3 7	68	2 . 7 1 3 . 3 6 2 . 5 5 3 . 8 7	1 7	4 . 9 9 5 . 5 7 4 . 4 7 7 . 0 4	. 9 3	4 . 1 2 . 4 . 4 6 4 . 1 3 4 . 7 5	. 9 5 . 8 9	6 . 6 5 6 . 3 8 7 . 6 1 4 . 5 9 M	3.81	7 . 1 8 8 . 4 0 7 . 2 7 6 . 4 8	3.56
DIVISIONAL DATA>	2.40	8 7	3,12	. 2 1	5.52	1.77	4.37	1.24	6.31	2 . 7.2	7 3 3	3.70
UPPER SOUTHERN 04 ANNAPOLIS POLICE BRKS BALTIMORE WSO ARPT R BELTSVILLE COLLEGE PARK DALECARLIA RESVR DC GLENN DALE BELL STN LAUREL 3 W NATIONAL ARBORETUM DC UPPER MARLBORO 3 NNWDIVISIONAL DATA>	3 . 6 0 7 2 . 8 3 2 . 9 9 2 . 7 0 3 2 . 5 3 2 . 4 7 2 . 9 2	. 0 7 0 8 0 2 2 5 3 6 . 3 6	4 . 1 9 3 . 2 5 3 . 2 4 3 . 0 1 4 . 0 4 6 . 0 6 2 . 5 4 3 . 6 7	3 8 7 5 4 5 .0 8 5 6 1 . 3 5 3 . 2 1 - 1 9	4 . 2 0 4 . 1 2 5 . 2 9 M 3 . 4 9	. 5 2 1 . 1 9 . 3 7 . 4 2 1 . 6 3	5 . 0 9 3 . 1 6 3 . 3 3 3 . 2 3 4 . 1 3 3 . 9 6 5 . 5 8 4 . 0 7	19 04 14 . 66 . 50 . 59 2 . 26	7 . 4 9 8 . 7 1 9 . 3 3 9 . 0 8 9 . 4 1 1 0 . 2 8 1 1 . 1 7 8 . 4 9 9 . 6 6 9 . 2 9	5 . 27 5 . 52 5 . 23 5 . 64 7 . 11 4 . 56 6 . 06	7 . 1 3 5 . 9 4 6 4 . 7 7 5 . 5 9 6 . 1 9 7 . 0 2 9 . 6 4 6 . 5 3	2.22 1.57 .92 1.91 2.32 3.11 3.07 5.80
NORTHERN EASTERN SHORE CHESTERTOWN MILLINGTON 1 SEDIVISIONAL D'ATA	2 . 9 3 3 . 1 6 3 . 0 5	- , 3 5 , 0 0 l - , 2 2	4 . 0 4 1 4 . 1 1 4 . 0 4	1	4 . 6 7 4 . 8 6 4 . 7 7	1.16	4 . 4 2 4 . 4 9 4 . 4 6	1 . 1 7 1 . 3 1 1 . 2 6	7 . 0 6 6 . 6 2 6 . 8 4	3.20	15.44 9.30	5.63
NORTHERN CENTRAL 06 ABERDEEN PHILLIPS FLD BALTIMORE WSO CITY R BENSON POLICE BARRACKS BOYDS 2 NW BRIGHTON DAM CATOCTIN MOUNTAIN PARK CLARKSVILLE 3 NNE	2 . 8 1 3 . 2 5 3 . 5 5 2 . 6 0 2 . 5 7 2 3 . 3	. 1 5, . 1 2	3 . 3 0 3 . 4 8 3 . 5 9 3 . 4 1 4 . 1 0 2 . 1 0 3 . 3 0	1 . 3 8	4 . 2 9 4 . 0 5 5 . 1 9 5 . 0 1 5 . 3 0 4 . 7 4 5 . 4 0	1 . 1 2 1 . 1 5 1 . 5 7	M 2.72 2.39 2.54 2.04 2.80 1.13 3.49	- 1 . 1 2 - 1 . 4 6 6 7	M 8.09 9.31 12.24 10.05 10.57 10.92	5 . 6 8 8 . 1 9 6 . 6 4	5 . 8 3 6 . 2 5 6 . 9 6 3 . 1 3 9 . 2 0 4 . 7 5 9 . 8 7	2.54
		SEE R	EFERENCE	NOTES F	OLLOWING	STATION	INDEX					

STATION	JU		AL	IG	SE	P	0 C	: T	NC) \	DE	С	ANN	U A L
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
MARYLAND														
SOUTHERN EASTERN SHORE ASSATEAGUE IS NATL SEA CRISFIELD SOMERS COVE PRINCESS ANNE SALISBURY SALISBURY FAA ARPT SNOW HILL 4 NDIVISIONAL DATA>	6.64 8.64 7.70 9.09 8.80 7.25	5.27 4.40	8.88 7.98 6.45 7.98 8.17 16.66	3.59 .82 1.37 2.45 11.23	4.38 2.42 M 5.52 5.90 5.67 4.78	1.93 1.96 2.14	5 . 1 2 4 . 0 6 4 . 0 5 M 5 . 0 5 3 . 8 8 4 . 4 3	. 85 . 37 1 . 32 . 08	3.59 2.69 3.10	76 1 . 27 . 48 37 28	M 1.93 3.06	-1.69 65 -2.12	. ,,.,,	16.62 14.06
CENTRAL EASTERN	0.01	7.00	7.21	4.01	4.70	'.'	7.73	,	3.43	. 2 7	2.12	'. 3	57,03	14.08
SHORE CAMBRIDGE WATER TRMT P DENTON 2 E ROYAL OAK 2 SSW VIENNADIVISIONAL DATA>	8.00 M 6.62 6.45	1	2.80 M 2.96 3.05 2.94	-2.13 -2.58	4.01 M 5.24 7.25 5.50	3.28	3.02 M 4.81 2.77 3.53	1.35	M 2.37	-1.36 .09	1.34 M 1.81 M .34	-1.93	49.77 58.54 1 56.67 56.11	4.57 13.23 11.99
LOWER SOUTHERN 03 A PLATA 1 W MECHANICSVILLE 5 NE DWINGS FERRY LANDING PATUXENT RIVER FALL TIMBERS	5.33 7.76 6.93 7.46 M	3.27	. 5 9 1 . 3 8 . 8 9 3 . 1 4 M	-3,30	10.18 6.43 6.71 5.06	3.19	5.23 4.99 5.80 4.30	2.53	2.33 2.52 2.74 2.59	5 9	1.72 1.97 1.55 2.26	-1.74	7 52.50 55.59 53.11 53.93	11.70
DIVISIONAL DATA>	6.87	2.77	1.50	-3.12	7.10	3.60	, 5.08	1.81	2.55	79	1.88	-1.50	54.03	11.54
UPPER SOUTHERN 04 ANNAPOLIS POLICE BRKS BALTIMORE WSO ARPT R BELTSVILLE COLLEGE PARK DALECARLIA RESVR DC GLENN DALE BELL STN LAUREL 3 W NATIONAL ARBORETUM DC UPPER MARLBORO 3 NNWDIVISIONAL DATA>	8 . 1 2 7 . 3 5 6 . 8 7 5 . 2 4 6 . 7 8 5 . 4 7 5 . 9 7 5 . 3 9 6 . 3 5	3 . 46 2 . 73 1 . 18 2 . 74 1 . 16 2 . 11 1 . 77 1 . 33	2.03 3.38 1.06 .24 .70 .06 .32 .70	-1.24 -3.88 -3.94 -4.36 -4.21 -4.11 -4.78 -3.96	4 . 9 7 3 . 6 4 5 . 2 9 4 . 5 1 4 . 1 8 5 . 2 0 4 . 8 8 4 . 8 8	1 8 1 1 4 0 1 1 7 3 1 1 0 9 1 1 1 8 2 1 1 1 5 0 1 1 1 1 5 0 1 1 1 1 5 0 1 1 1 1	5.43 5.26 5.36 6.42 5.11 6.8	1 . 79 2 . 19 2 . 10 2 . 26 2 . 02 3 . 29 1 . 94 3 . 54	2.61 2.75 2.90 2.36 3.17 M	-1.14 36 35 25 96 23	1 . 3 8 2 . 1 2 . 7 4 . 9 8 3 . 1 7 1 . 0 1 1 . 8 8 M	2 -1.28 -2.60 3 -2.40 -2.38 -2.38 3 -1.46 3 -2.53	56.10 51.88 50.47 M 48.64 52.45 49.79 57.35	10.04 8.39 9.57 6.04 15.48
NORTHERN EASTERN SHORE 05 CHESTERTOWN MILLINGTON 1 SE DIVISIONAL DATA>	7.13 8.06 7.60	4.19	1.92	-3.35 -2.82 -2.92	4 . 8 3 6 . 0 7 5 . 4 5	2.28	5.06	2.01	2.26	-1.21	1 . 6 1 1 . 3 0 1 . 4 6	-2.28	61.38 M 57.21 59.29	17.44
NORTHERN CENTRAL O6 ABERDEEN PHILLIPS FLD. BALTIMORE WSO CITY R BENSON POLICE BARRACKS BOYDS 2 NW BRIGHTON DAM CATOCTIN MOUNTAIN PARK CLARKSVILLE 3 NNE	7.50 8.28 8.99 2.83 6.90 5.98	4.25 4.64 3.36	2.16 .70	-2.76 -2.75 -3.23	2.57	1 4 . 0 6 7 . 6 1	5.08 5.56	1.99 2.10 2.38	1.72	2 - 1 . 4 2 2 - 2 . 1 7 3 . 4 8	1 3 9	-2,27 -2.60 -1.31		7.43 10.65 16.56
			 SE	 E REFERE	NCE NOTE	S FOLLOW	ING STATI	ON INDE	 x	1				1

STATION	JA	N	FE	В	M A	· R	AF	P R	MΑ	· Υ	JU	N
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CONOWINGO DAM DAMASCUS 2 SW EMMITSBURG 2 SE FREDERICK POLICE BRKS FREDERICK 3 E MILLERS 4 NE POTOMAC FILTER PLANT ROCKVILLE 1 NE TOWSON UNIONVILLE WESTMINSTER POLICE BRK HOODSTOCKDIVISIONAL DATA>	2 . 5 7 2 2 . 8 8 8 2 . 9 1 2 . 9 3 3 . 1 2 2 3 . 7 5 7 8 3 . 5 3 3 . 0 7	. 0 3 . 1 7 . 4 4 5 4 . 3 9	3 . 5 5 3 . 0.9 1 . 9 2 2 . 3 4 2 . 5 5 2 . 7 0 4 . 2 8 2 . 2 9 3 . 2 9 2 . 9 8	. 0 0 . 1 1 1 . 1 0 1 7 5 3 . 5 3	4 . 6 7 4 . 9 7 4 . 0 6 4 . 0 8 4 . 3 3 3 . 1 0 5 . 3 2 4 . 7 1 2 . 5 6 4 . 6 4 4 . 5 6	1 . 0 8 1 . 7 8 . 6 7 1 . 0 3 - 1 . 3 6 . 7 0	2 . 0 7 2 . 1 6 1 . 7 7 1 . 8 5 1 . 8 0 1 . 3 7 2 . 2 6 2 . 9 7 3 . 2 4 1 . 2 8 2 . 4 2 2 . 1 4	- 1 . 8 1 2 7 7 4 - 2 . 1 1 - 2 . 4 1 - 1 . 2 0	8 . 1 5 1 0 . 1 4 1 0 5 9 1 0 9 9 9 . 9 6 7 2 5 8 9 2 1 4 . 6 4 8 . 3 8 8 9 7 1 1 3 6 1 0 3 0	5 . 4 3 5 . 1 5 1 0 . 6 3 4 . 7 1 5 . 1 0 7 . 5 9	5 . 2 6 4 . 4 8 5 . 7 3 4 . 9 1 5 . 3 1 4 . 9 1 5 . 4 8 8 . 7 0 5 . 7 1 6 . 0 1 5 . 8 7	1.29
APPALACHIAN MOUNTAIN CUMBERLAND 2 EDGEMONT FROSTBURG 2 HAGERSTOWN HANCOCKDIVISIONAL DATA>	2 . 6 5 2 . 4 2 3 . 3 2 M 1 . 8 5 2 . 3 5 2 . 7 7	6 5	1 . 9 5 2 . 1 1 2 . 7 1 2 . 0 2 1 . 9 8 2 . 1 7	4 6 5 1 2 4 3 8	4 . 8 5 3 . 8 0 5 . 2 8 3 . 9 3 4 . 7 2 4 . 7 0	. 0 9 . 5 5 1 . 2 3	1 . 7 4 1 . 0 3 2 . 3 6 1 . 0 0 1 . 4 9	-2.50 -1.75	6.03 10.76 7.22 9.26 7.52	6.94 5.52 4.11	4 . 8 3 4 . 5 4 6 . 3 1	. 37
ALLEGHENY PLATEAU OB MC HENRY 2 NW MERRILL OAKLAND 1 SE SAVAGE RIVER DAMDIVISIONAL DATA>	4 . 9 4 3 . 1 3 4 . 0 6 3 . 1 5 4 . 0 5	. 2 2 . 2 7 . 5 5	5 . 1 5 2 . 7 2 3 . 1 8 2 . 5 7 3 . 6 3	. 0 0, 0 2 . 2 2 . 5 4	5 . 1 5 4 . 9 8 5 . 6 1 5 . 4 3 5 . 4 0	1.06 1.19 2.05	3 . 2 1 2 . 6 4 1 . 9 2 1 . 7 4 2 . 2 9	`-1.03 -2.59 -1.74	6 . 1 6 5 : 5 1 6 . 0 0 6 . 6 4 6 . 2 7	1.64 1.56 2.97	6 7 2 5 5 2 6 4 4 4 6 2 5 9 3	1.92 2.08 1.12
DELAWARE NORTHERN 01 NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT R WILMINGTON PORTER RSVRDIVISIONAL DATA>	M 2 . 2 5 2 . 4 8 3 . 1 1 2 . 8 0	6 3 1 8	3 . 3 0 2 . 7 5 3 . 3 3 3 . 1 3	24	4 . 5 0 3 . 6 9 5 . 3 1 4 . 5 0	1 8 1 . 2 4	2 . 9 9 2 . 7 6 3 . 0 6 2 . 9 4	6 3	6 . 6 2 6 . 5 7 7 . 9 5 7 . 0 5	3.34	7 . 3 7 5 . 4 3 4 . 7 5 5 . 8 5	1.92
SOUTHERN 02 DOVER GEORGETOWN 5 SH GREENWOOD 2 NE LEWES MILFORD 4 SEDIVISIONAL DATA>	3 . 3 5 2 . 7 8 2 . 6 1 M 2 . 7 6 2 . 5 6 2 . 8 3	5 7	4 . 1 8 3 . 2 2 2 . 8 6 3 . 1 0 2 . 6 2 3 . 2 0	5 1	6.31 6.77 7.88 7.85 8.21	3 , 6 4	5 . 0 5 6 . 4 8 5 . 9 0 5 . 2 3 5 . 8 3 5 . 7 0	3 . 2 8 1 . 8 2 2 . 4 2	7 . 5 3 3 . 3 7 4 . 9 2 3 . 3 4 3 . 1 4 4 . 4 6	. 1 1 2 0 3 4	9 . 1 3 5 . 9 6 7 . 2 3 6 . 0 4 4 . 7 4 6 . 6 2	2.37
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STATION	JL	J L	AL	G	SE		0.0	T	N.C	V	DE	C	ANN	<u>1989</u> IUAL
ŞTATION	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP,	DEPARTURE
CONOWINGO DAM DAMASCUS 2 SW EMMITSBURG 2 SE FREDERICK POLICE BRKS FREDERICK 3 E MILLERS 4 NE POTOMAC FILTER PLANT ROCKVILLE 1 NE TOWSON UNIONVILLE WESTMINSTER POLICE BRK WOODSTOCK DIVISIONAL DATA	9 . 8 4 4 . 25 4 . 9 5 3 . 3 5 4 . 5 1 3 . 6 2 2 . 6 6 5 . 6 4	1 . 04 4 . 55 -1 . 47 -1 . 34 2 . 40	2 . 1 4 50 2 . 1 8 . 56 1 . 1 2 2 . 6 8 M . 4 7 3 3 4 . 2 3 2 . 1 4 1 . 8 4 1 . 9 6	- 2 . 5 9 - 4 . 1 3 5 6 - 1 . 6 2 - 2 . 1 6	5.52 2.62 1.80 1.70 2.94 3.52 2.89 3.17 5.67 2.36 4.06	6 1 2 9 1 . 5 2 - 1 . 1 5 2 3	4 . 4 6 4 . 7 6 3 . 7 8 4 . 9 6 4 . 8 5 5 . 8 9 4 . 8 5	1 . 8 3 2 . 8 2 2 . 7 6 1 . 9 3 1 . 1 5 1 . 8 3	M 2.99 3.08 2.16 2.23 2.35 2.82 2.86 4.40 2.40 2.40 2.40	-1.14 20 .57 84 81	M 2.15 1.52	- 2 . 2 7 - 1 . 4 1 - 1 . 7 8	44.44 44.65 1 37.79 41.78 46.07 1 37.06 47.17 1 70.64	.92 6.26 9.79 5.38
APPALACHIAN MOUNTAIN 07 CUMBERLAND 2 EDGEMONT, FROSTBURG 2 HAGERSTOWN HANCOCKDIVISIONAL DATA>	7 . 0 1 3 . 8 3 1 0 . 0 3 3 . 2 4 5 . 2 4	.58 10 1 .68	1.32 1.06 1.90 M .64 1.09	-2.77 -2.21	2 . 8 3 1 . 8 5 4 . 1 6 1 . 5 7 2 . 3 0	-2.31 -1.73 92		1 . 1 8 1 . 0 2 1 . 1 5	2 . 3 5 2 . 8 0 3 . 1 7 2 . 7 0 3 . 1 5 2 . 8 4	5 8 3 2 . 4 8	. 8 8 . 5 2 1 . 8 5 . 2 9 1 . 2 0	-2.50 -2.57 -1.39	42.54 39.22 50.92 435.19 41.43 42.98	6.04 -2.78 4.19 4.53
ALLEGHENY PLATEAU 08 MC HENRY 2 NW MERRILL OAKLAND 1 SE SAVAGE RIVER DAMDIVISIONAL DATA> DELAWARE	7.08 9.29 5.97 6.82 6.62	5.62 1.29 3.20	3 . 6 5 2 . 1 1 3 . 8 2 2 . 5 0 3 . 3 2	-1.55 78 -1.11	2.71 2.35 2.65 3.05 2.83	5 1 4 2 . 1 0	2.91	05 1 . 12 . 03	.3.66	. 5 2	3.53 2.30 M 1.75 1.18 2.36	8 - 1 . 5 O	M 49.39	5.66
NORTHERN NORTHERN NEHARK UNIVERSITY FARM WILMINGTON WSO ARPT WILMINGTON PORTER RSVRDIVISIONAL DATA>	13.58 12.63 14.86	8.73		- 2.06 - 1.22	5 . 4 2 4 . 3 1 4 . 7 5 4 . 8 3	.72	3.92 5.45	1.03		-1.34	1.27 1.27	7 - 2.27	M 55.91 49.77 59.14 55.43	8.39 14.24 13.21
SOUTHERN 02 DOVER GEORGETOWN 5 SW GREENWOOD 2 NE LEWES MILFORD 4 SEDIVISIONAL DATA>	6.24 9.26 7.72 11.26 6.14	5.24 7.10 1.76	6 . 1 1 1 0 . 7 7 4 . 7 0 8 . 4 5 4 . 9 5	5.34 3.09 .17	7 . 6 4 4 . 7 6 5 . 1 7 6 . 4 2 6 . 7 5	1.25 3.16 3.00	3 . 8 9 3 . 5 2 - 4 . 9 4 3 . 0 9	1 . 61 3 B	2 . 20 5 . 03 2 . 80 3 . 57 3 . 65	1.74 .08 .22	M 1.35 1.36 1.27 2.03	- 2 . 5 5 3 - 1 . 7 8	M 63.64 56.67	18.38

	AVE	RA	GE	TE	MPE	RA	TUF	RES	A١	I D	DEP	AR	TUF	RES	FR	MOS	NO	RM	AL	(0	F)			MARY	LAND DELAW	
	J	AN	F	ΕB	М	AR	А	PR	М	ΑY	J	IJΝ	J	UL	А	U G	SI	ΕP	0 (C T	N	0 V	D	E C	ANN	NUAL
STATION	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TENPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE
MARYLAND																					<u> </u>					
SOUTHERN EASTERN SHORE OI ASSATEAGUE IS NATL SEA CRISFIELD SOMERS COVE PRINCESS ANNE SALISBURY SALISBURY FAA ARPT SNOW HILL 4 NDIVISIONAL DATA	40.9 41.6 41.5 40.1 41.2	4.8 5.4 4.8 5.0 5.2	M 38.6 1M39.4 38.6 37.5 38.7 38.6	2,1 .2 .9	46.5	1.7	54.6 53.1	-1.2 -1.1 8	62.6 63.4	.0 6 -1.6 5	75.5	4.1 3.9 4.9	77.0 79.0 76.4 4 75.9 76.4 76.9	. 3 . 4 6 . 5	75.5 74.5 75.0	.5 -1.5 3	71.2 73.1 M 71.2 70.1 71.2	1.3 1.5 2.2	60.3 62.0 60.0 M 59.7 59.8 60.4	1.2 2.4 2.3 1.7	M50,5 50.6 48.3 48.5 46.9 47.8 48.8	. 1 . 3 - 1 . 0 8 7	29.6	-11,6 -11,1 -9,9	55.8	. 0
CENTRAL EASTERN SHORE 02 CAMBRIDGE WATER TRMT P DENTON 2 E ROYAL OAK 2 SSH VIENNADIVISIONAL DATA	40.2 38.7 39.7 39.7	4.6 4.7 3.8	38.2	1.7 1.5	3745.6 744.3 45.4 44.6	. 2 . 2 -1.0	53.9 54.5	-1.2 -1.9 -1.1	64.6 63.9 63.9 64.9	4 -1.3	76.5	3.0 3.8	M 77.9	. 2	М	-1.0 3		1 . 3	61.1 M 60.4 60.9	1.1 2.0	48.8 M 48.8 47.3	1 -1 . 7	M 27.5 26.2	-11.4 -13.4	M57.1 M 56.5 M56.4	4 6
LOWER SOUTHERN 03 LA PLATA 1 W MECHANICSVILLE 5 NE OWINGS FERRY LANDING PATUXENT RIVER TALL TIMBERS	39.4 38.8 38.4 40.0	4.8	38.2	1.4	46.7 45.5 45.2 45.4	1.5	54.3 53.4	-1.2 -1.9	62,2 62,4 M63,1 63.0	-1.8	73.7 74.4 73.7 76.4	2,1	74.8 75.2	-1.1	73.2 73.6	-1.6 6	68.1 68.2	7	58.0 57.8 59.5 61.3		47.9 46.9	. 6	27.3 26.2	-10.6	55.3 55:0 M55.2 56.8	5 8
DIVISIONAL DATA	> 39.2	4.3	38.0	1.1	45.7	. 5	53.8	-1.9	62.7	-1.9	74.6	2.2	75.5	-1.2	74.4	-1.2	69.2	- , 1	59.2	1.2	47.7	3	27.2	-11,4	55.6	6
BELTSVILLE COLLEGE PARK DALECARLIA RESVR DC GLENN DALE BELL STN LAUREL 3 W NATIONAL ARBORETUM DC UPPER MARLBORO 3 NNW	38,1 37,9 37,0 37,5 36,2 36,9 35,9 35,9	5.2 5.7 3.5 2.3 3.7 3.5	M34.8 36.3 36.6 37.4 34.9 M	1 . 8 1 . 8 . 1 . 3 2 . 0 8	44.0 43.8 43.4 M43.5 M42.8 M43.1 42.4 M	. 5 1 . 5 -1 . 1 -2 . 1 8 -1 . 8	52.2 52.4 52.6 52.6 50.5	-1.4 -2.3 -3.5 -1.8 -2.6 -3.6	61.2 61.0 62.1 61.8 60.5	-1.4 7 -2.1 -3.8 -2.4 -2.3 -3.4	75.5 74.0 73.5 73.7 74.3 73.6	3.6 2.6 1.2 2.3 1.1	75.4 75.6 75.5 75.7 74.9	8 . 8 . 4 - 1 . 8 . 0 - 1 . 7 - 2 . 0	73.9 75.5 73.3 M74.0 M 72.9	5 -2.6 5 -3.8	68.5 69.9 68.2 68.3 70.2 66.5 67.2	3.6 3.6-	58.4 56.9 58.1 59.6 54.7 56.0	2.3 1.0 7 .1.5 1.4	46.6 44.1 46.2 46.5 M	-1.5 .6 3 -2.9 1	24.0 25.7 24.1 25.9 26.2 26.6	-11.6 -11.6 -13.3 -10.6 -10.3	M M	6 8 - 2 . 3 6
DIVISIONAL DATA	> 36.9	3.7	36.1	1.0	43.3	4	52.2	-2.2	61.6	-2.1	74.2	2.3	75.9	6	73.9	-1.4	68.5	- , 2	57.4	. 4	45.6	-1.0	25.4	-11.5	54.3	9
NORTHERN EASTERN SHORE 05 CHESTERTOWN MILLINGTON 1 SEDIVISIONAL DATA	37.3 37.1 37.2	4.9	35.8 37.3 36.6	3.2	43.5 44.0 43.8	1.2	52.9 52.6 52.8	6	62.8	. 1	75.4 74.3 74.9	3.2	76.7 75.2 76.0	4	75.2 M73.6 74.4	9	69.3 69.3	1.3	58.3 58.6 58.5	2 . 1	45.8 46.8 46.3	. 7	25.1	-11.0	54.9 M54.7	. 3
NORTHERN CENTRAL 06 ABERDEEN PHILLIPS FLD BALTIMORE WSO CITY BENSON POLICE BARRACKS BOYDS 2 NW CATOCTIN MOUNTAIN PARK CLARKSVILLE 3 NNE CONOHINGO DAM DAMASCUS 2 SH EMMITSBURG 2 SE, FREDERICK POLICE BRKS MILLERS 4 NE ROCKVILLE 1 NE TOWSON UNIONVILLE	M. 40.0 37.8 37.6 36.0 37.3 34.4 37.0 36.1 38.6 36.0 40.5	6.6 4.2	M 36.9 36.1 M35.6 31.8 36.2 33.3 34.7 34.7 37.1 33.6 37.2 35.0	1.8	M44 . 2 45 . 9 43 . 6 43 . 5 M38 . 9 43 . 2 M41 . 0 42 . 8 44 . 4 41 . 5 43 . 2 40 . 9 41 . 7	1 1	51.7 51.0 54.4 50.3 52.2 51.8 50.1	-1.6 -2.7	61.7 60.0	-1.9 -2.9 9	74.0 78.1 74.2 72.4 69.3 73.3 71.9 72.1 72.1 75.1 71.4 73.5 72.4 73.5	2.8 3.6 1.3 2.2	74.3 74.5 77.4 73.6 75.8 75.4 74.8	1.2 5		. 6 5 2	M 71.7 68.3 67.4 63.7 67.4 68.0 66.9 65.7 65.7 65.7 68.0 67.5	. 8	M 62.4 58.5 56.6 57.0 57.1 58.4 55.5 55.5	1.0	M 49.1 45.2 45.0 41.8 44.9 43.1 44.5 46.4 45.6 45.5 43.2	-1.0 -1.7	24.5 24.1 21.3 23.7 23.8 23.7 22.3 25.8 22.8 25.0	-10.6	M 58.0 M53.9 M53.9 M50.6 53.7 M52.5 52.3 55.6 52.3 53.9	6

STATION	TEMPERATURE	N	F	EΒ	М	0.0																				
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	🖺	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
WESTMINSTER POLICE BRK WOODSTOCK DIVISIONAL DATA	35.7 37.3 > 37.1	5.6 5.9 5.5	35.8	2.3	43.3	1.2	50.2 52.2 52.1	7	M60.1 62.0 61.4		70.9 73.7 73.0	1.0 3.4 2.2	75.7	7 . 8 . 0	74.1	. 6	65.7 67.8 67.3	6 1 . 0 1	55.7 57.7 57.5	. 8 2 . 5 1 . 7		-1.5 .4 6		-11.0 -10.7 -11.3	54.1	9 . 5 2
APPALACHIAN MOUNTAIN 07 CUMBERLAND 2 FROSTBURG 2 HAGERSTOWN HANCOCKDIVISIONAL DATA	M36.8 32.3 36.8 35.2	6.2 6.0	34.1 M27.9 34.6 32.9	1.7	37.0 42.1 40.0	.0	50.8 43.8 52.4 48.7	-1.2 -2.4	60.6 54.0 61.2 58.8	-1.9 -1.4	65.9 72.3 70.3	1 . 3 1 . 8	74.6 68.6 M 73.8	. 9	65.8 73.2 71.3	2 4	65.5 60.5 65.9 64.6	-1.1 9 3	50.9 56.2 54.7	. 9 1 . 8	42.4 38.2 43.1 42.6	-1.2 2	17.8 22.7 22.7	-11.5 -10.2	M52.6 M46.9 M 51.3	8 2
ALLEGHENY PLATEAU 08 MC HENRY 2 NW OAKLAND 1 SE SAVAGE RIVER DAM DIVISIONAL DATA	32.1 34.4 32.7	8.2 6.3	26.0 28.7 29.6 28.1	. 7	38.2 M39.0	2.6	44.1 44.6 45.9	-2.6 -2.5	53.5 54.0 55.7	-2.3 -2.1	65.6 66.2 67.7	2.6 2.3	70.0 69.4 71.3 70.2	2.0 1.8	66.1 66.6 67.8 66.8	- , 1 - , 8	60.6 61.0 62.5 61.4	. 5 . 5	50.8 50.6 51.5	1 . 1. . 7	37.4 39.0	2 -1.3	17.3 18.5 19.9	11.4	46.8 M47.7 48.6	. 1
DELAWARE NORTHERN 01 NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT . WILMINGTON PORTER RSVRDIVISIONAL DATA	36.3 36.0 36.7 > 36.3	4.8 5.9	35.2 34.3 34.6 34.7	2.0	42.5 42.1 41.5 42.0	. 3	51.4 51.6 51.4 51.5	8 4	62.3 62.1 61.5 62.0	1 1	73.5 74.3 73.4 73.7	3.1 3.0	75.7 75.9 75.1 75.6	1 . 2	74.4 73.7	4 . 0	1	. 5 1 , 1	57.9 57.6 58.6 58.0	1.3 2.9	44.4	-1.0 8	25.0 24.7	-10.5 -10.4	54.0 53.9 53.6 53.8	2 .3
SOUTHERN 02 DOVER GEORGETOWN 5 SW GREENWOOD 2 NE LEWES. MILFORD 4 SEDIVISIONAL DATA	39.8 39.2 39.0 40.8 39.5	5.0 6.2	j	1.1	44.5	1.8	51.5 52.9 54.4	1.3	62.8 61.7 62.5 M63.1 M62.8	1.4 1.0 -1.1	75.2 74.9 76.3	3.7 5.6 3.4	77.2 75.7 75.5 77.2 75.9	2.0 6	74.0 73.9 76.2 74.5	9 1.9 7	68.7 71.8	. 5 3 . 4	59.7 58.6 58.5 60.5 59.1	1.6 3.0	47.8 47.0 46.2 49.4 47.5	2 1 . 4 1	25.9 25.7 29.2 26.7	-11.9 -9.3 -11.2	M55,9 54,8 55.0 M56.8 M55.5	1.7 2
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TEMPERATURE EXTREMES AND FREEZE DATA MARYLAND AND DELAWARE 1989 NUMBER OF DAYS LAST SPRING MINIMUM OF FIRST FALL MINIMUM OF BETWEEN DATES 16° OR 20° 0 R 24° DR 28° OR 32° OR 32° 08 28° 0R 24° nr 20° 0R BEL ON STATION 16 OR HIGHEST BEL BELOW BELOW BELOW BELOW BELOW BEL BEL RELOW REL DW BFI OW BELOW BELOW LOWES 16° 0R 20° 0R 98 DATE TEMP DATE DATE TEMP DATE DATE TEMP DATE 1EMP DATE 1EMP DAT 0.41 MARYLAND SOUTHERN EASTERN 4/12 31 11/19 29 11/22 28 11/24 22 12/ 5 15 12/ 5 15260258 3/23 32 11/22 28 11/22 28 12/ 4 23 12/16 20 12/21 15 294 MSG MSG 11/22 26 11/23 24 11/24 12 11/24 12271271 ASSATEAGUE IS NATL SEA 102 3/20 13 3/22 19 4/ 2 22 4/ 2 22 3/11 28 15260258236234221 3/ 8 22 CRISFIELD SOMERS COVE 294271256244 94 7/11 12/23 NONE 2/25 20 PRINCESS ANNE 2/26 16 2/26 16 MSG MSG MSG 32 MSG 26 SAL ESBURY 2/26 13 3/8/20 3/11 23 3/20 4/13 MSG MSG MSG MSG SALISBURY FAA ARPT 94 12/25 2/25 2/26 17 3/20 24 4/12 27 4/23 32 11/ 4 31 11/19 28 11/23 15 11/23 15 11/23 15271270248221195 SNOW HILL 4 N 96 7/11 12/25 2/26 15 2/26 15 3/20 24 4/12 26 4/23 32 10/10 32 11/ 4 28 11/19 24 11/24 15 11/24 15271271244206 70 CENTRAL EASTERN SHORE 3 / 8 20 3 / 8 18 3 / 8 20 4/12 29 11/17 31 11/21 22 11/21 22 11/24 20 12/14 4/23 30 MSG MSG MSG MSG MSG MSG 4/23 32 11/ 4 32 11/22 28 11/24 21 12/ 9 19 12/14 CAMBRIDGE WATER TRMT P 3 / 8 20 3 / 23 24 3/23 26 4/12 27 97 7/11 ы 12/25 3 / 7 14 16282261258243219 12 DENTON 2 E 2/25 11/22 28 142922762582441195 ROYAL OAK 2 SSW 97 7/11 3/11 24 12/25 2/25 3/23 28 VIENNA 9.8 8/16 12/24 2/25 13 3/10 19 3/22 24 4/12 28 4/13 32 11/ 4 29 11/19 25 11/21 22 11/24 14 11/24 14272259244221205 LOWER SOUTHERN 12/25 12/25 12/25 3/11 4/12 28 4/14 30 11/ 4 29 11/19 28 11/24 14 4/14 28 11/ 4 28 11/ 4 28 11/24 14 4/14 30 11/ 4 28 11/ 4 28 11/24 12 2/10 13 3/8/19 14287261258221204 IA PIATA 1 W 91 7/11 23 11/24 14 11/24 14 11/24 MECHANICSVILLE 5 NE 94 7/11 2/11 14 3/20 23 4/14 28 11/24 14 11/24 14 11/24 14286258249204204 3/ 9 19 2/25 19 OWINGS FERRY LANDING 93 7/11 2/11 3/20 24 4/12 26 11/24 12 11/24 12286260249206204 PATUXENT RIVER 96 7/11 6 12/22 2/10 15 3/8 2,2 3/11 26 3/20 32 11/19 31 11/23 25 11/24 19 11/24 19 12/14 15307272261257244 TALL TIMBERS MSG UPPER SOUTHERN 3/20 20 3/8 19 3/8 14 4/14 31 11/ 4 28 11/ 4 28 11/19 22 11/23 20 11/24 4/23 32 11/ 4 28 11/ 4 28 11/22 24 11/24 17 12/10 4/24 32 11/ 4 30 11/12 28 11/23 24 11/24 13 11/24 4/23 32 11/ 4 29 11/19 27 11/24 17 11/24 17 12/10 ANNAPOLIS POLICE BRKS 7/11 12/22 3/11 3/20 20 4/12 28 14258248244206204 98 BALTIMORE WSO ARPT 7/23 2/10 15 3 / 1 1 3/20 26 15303261256229195 94 12/23 22 BELTSVILLE 99 7/12 12/23 3/8 14 3/23 24 4/14 28 13 26 1 26 1 245 212 194 COLLEGE PARK 96 7/12 12/23 9 16 3/9 3/11 22 3/23 27 14304260258241195 4/24 29 10/ 9 31 11/ 4 23 4/24 28 10/ 8 31 11/ 4 24 4/12 29 11/ 4 32 11/19 27 31 11/ 4 23 31 11/ 4 24 12 DALECARLIA RESVR DC 95 9/10 12/23 3/8 3/11 18 4/12 22 4/23 28 11/ 4 23 11/19 20 11/24 12261253206195168 9272249206194167 GLENN DALE BELL STN 96 7/12 0 12/19 2/25 4/12 11/4 3/20 19 4/24 23 28 24 11/24 11/24 LAUREL 3 W 15277259245241206 12/22 14 3/ 9 19 3/23 23 3/23 23 11/23 20 3/8 11/23 20 12/10 NATIONAL ARBORETUM DC 98 9/11 MSG MSG MSG 4/12 28 4/14 30 10/8 31 MSG MSG MSG MSG 1177 UPPER MARLBORO 3 NNW 96 4/12 24 7/12 .MSG MSG 4/14 27 4/24 30 10/ 8 32 MSG MSG MSG MSG 167 NORTHERN EASTERN SHORE 05 CHESTERTOWN 2/25 15 2/25 15 4/23 31 11/ 4 30 11/19 28 11/22 24 11/23 19 12/ 9 4/24 32 11/ 4 28 11/ 4 28 11/23 24 11/24 12 11/24 95 9/10 12/23 3 / 8 18 3/11 23 3/23 27 16287260256241195 94 12/23 3/ 8 17 4/12 28 MILLINGTON 1 SE 9/11 12272261248206194 NORTHERN CENTRAL ABERDEEN PHILLIPS FLD 3/8 16 37.8 16 3/13 23 4/12 28 4/23 30 MSG MSG MSG MSG 271270251242 11261258240206169 16271258252240204 11270255222205169 15261244204194167 14260255226195159 16270260255226195157 13276271257240204 14261258241195194 16270258241204 3/22 32 11/19 28 11/19 28 12/ 3 21 12/ 4 20 12/16 4/24 32 10/10 32 11/ 4 25 11/18 24 11/22 20 11/24 4/14 32 11/ 4 29 11/18 27 11/19 22 11/22 20 12/ 4 4/23 29 10/ 9 32 11/ 4 26 11/19 19 11/19 19 12/ 4 4/24 27 10/ 8 31 11/ 4 24 11/ 4 24 11/22 19 11/24 5/ 4 31 10/10 30 11/ 4 24 11/ 4 24 11/23 14 11/23 3/ 8 17 3/ 9 20 3/ 9 18 3/ 9 15 BALTIMORE WSO CITY 7/11 12/22 NONE 3 / 8 Rl1 0 1 3/13 26 1 7 9/10 BENSON POLICE BARRACKS 96 12/22 3/8 3/23 24 4/12 27 3/9 BOYDS 2 NW 94 9/10 12/22 3/8 14 3/23 CATOCTIN MOUNTAIN PARK 87 7/11 12/22 3/ 15 4/11 24 4/13 28 CLARKSVILLE 3 NNE 95 6/27 3/8 3/23 20 12/25 4/14 24 4/24 27 CONOWINGO DAM 98 7/23 3/8 12/22 13 3/13 20 3/23 23 4/23 27 5/ 4 31 10/10 30 11/ 4 24 11/ 4 24 11/23 14 11/23 4 4 12/ 4 4 23 9 11/ 4 27 11/ 4 23 11/ 2 3 11/ 2 4 19 12/ 4 4/24 30 9/28 32 11/ 4 23 11/ 4 23 11/ 2 19 11/24 4/14 32 11/ 4 31 11/18 27 11/23 24 12/ 4 18 12/ 9 4/24 29 11/ 4 25 11/ 4 25 11/19 22 11/22 20 11/24 4/14 31 11/ 4 30 11/19 27 11/24 24 12/ 3 20 12/ 9 4/25 30 11/ 4 29 11/18 27 11/19 23 12/ 4 17 12/ 9 5/ 4 32 9/28 32 10/23 28 11/ 4 22 11/18 20 11/24 5/ 8 32 10/ 8 32 11/ 4 24 11/ 4 24 11/ 8 19 11/23 DAMASCUS 2 SW 92 9/10 3 / 3/9 16 3/9 3/23 12/22 16 EMMITSBURG 2 SE 93 7/11 12/25 3/ 3/11 4/12 4/23 17 24 FREDERICK POLICE BRKS 14 3/ 8 14 3/ 9 17 97 7/11 12/22 3 / 8 3/11 23 3/23 26 MILLERS 4 NF 91 7/11 12/22 3/8 าก 3/23 24 4/23 27 ROCKVILLE 1 NE 93 7/11 12/22 NONE 3/8 18 3/11 3/23 27 3/10 20 95 6/27 12/22 3 / 8 13 3/14 22 4/12 26 14276269250220193 3/20 19 5259243195182147 16259239195195153 UNIONVILLE 95 7/11 3/10 15 4/23 4/24 26 12/25 23 WESTMINSTER POLICE BRK 96 32 10 / 8 32 11 / 4 24 11 / 4 24 11 / 18 19 26 11 / 4 26 11 / 18 24 11 / 24 16 24 11/ 4 24 11/18 19 7/22 12/25 3/ 3/24 19 4/23 24 4/23 24 5/8 11/23 WOODSTOCK 95 7/11 15 20 3/23 22 4/23 28 30 11/4 16261258240195194 12/22 3/ 3 / 1 1 4/24 11/24

SHORE

TOWSON

SEE REFERENCE NOTES FOLLOWING STATION INDEX 8

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APPALACHIAN MOUNTAIN 07 CUMBERLAND 2 FROSTBURG 2 HAGERSTOWN HANCOCK	94 85 94	7/11 7/26 9/11 7/12	- 1 1 - 2	12/23	2/24 3/ 9 3/ 9 3/10	10	3 / 8 4 / 1 1 3 / 1 0 4 / 1 1	20	4/10 4/13 3/22 4/14	24	4/14 4/24 4/12 4/24	27 28	5/8 4/23	32 30	10/9	31 32	11/ 3 11/ 4 11/ 4 10/23	22	11/4	22	11/19	15	11/19	15	255 270	222 258	2051 2422	94154
ALLEGHENY PLATEAU 08 MC HENRY 2 NH OAKLAND 1 SE SAVAGE RIVER DAM	87 85 95	7/24	- 22	12/23 12/24, 12/23	3/22 4/11 3/ 9	1 4	4 / 1 2 4 / 1 4 4 / 1 4	18	4/13 4/24 4/14	21	5/ 7 5/ 4 4/24	2.8	5/8 5/8 4/25	32	9/24	3 1	10/9 9/28 10/10	28	10/23	23	11/	1 17	11/19	e 1 1 1	222	204	1821	147 139
DELAWARE NORTHERN 01 NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT F WILMINGTON PORTER RSVR	94 96 95	7/27 7/26 6/27	4	12/23	3 / 8 3 / 8 3 / 8	16	3 / 8 3 / 13 3 / 8	20	3/20 3/13 3/20	20	'4/23 -3/23 3/23	27	4/24 4/14 4/23	30 32 32	10/10 11/ 4	32 30 32	11/ 4 11/18 11/19	27 28 26	11/22 11/22 11/22	23 22 23	11/24 11/23 11/24	1 17 3 20 4 20	11/30 12/ 9 12/ 9) 15 9 14 9 16	267 1276 276	261 255 261	2471 2542 247	95169 240204 241195
SOUTHERN 02 DOVER GEORGETOWN 5 SW GREENWOOD 2 NE LEWES MILFORD 4 SE	VER 97 8/ 5 2 12/23 2/25 12 3/ 8 17 3/20 24 4/12 28 4/23 30 11/ 4 32 11/19 26 11/22 22 12/ 4 19 12/14 11/292/271/247/221 195 286 2017 0 2 12/25 2/26 14 3/ 8 20 3/20 23 4/12 26 4/23 31 10/10 32 11/18 25 11/23 23 11/24 16 11/24 16/271/261/248/22017 0 2 12/24 14 14 14 14 14 14 14 14 14 14 14 14 14																											
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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 ASSATEAGUE IS NATL SEA CRISFIELD SOMERS COVE PRINCESS ANNE SALISBURY SALISBURY FAA ARPT SNOW HILL 4 N	0 0 0 0 0	B 0 0 0 0 0	B 6 11 16 14	B 7 8 8 1 0	9 1 8 4 6 4 5 0 5 1 6 7	321 403 332 324 352	3 7 8 4 4 1 3 6 1 3 4 4 3 6 0	319 380 332 302 317 339	223 267 25 207 230	32 38 37 - 38 38	B 2 0 3 0 6 2	B 0 0 0 0 0 0 0 0	B 1 6 2 6 - 1 3 0 9 1 4 0 9	1423 1063 1200 1074 1058
CENTRAL EASTERN SHORE CAMBRIDGE WATER TRMT P DENTON 2 E ROYAL OAK 2 SSW VIENNA	0.0	0 0 0	B 17 B 6	5 1 0 3 4	8 1 7 9 7 1 8 7	3 6 4 - 3 5 3 3 5 9	4 0 8 - 4 0 7 3 9 8	370 - 337 B 350	240 - 196 210	4 0 - 3 9 3 9	1 - 1 0	0	B 1 5 2 6 1 4 1 9 B 1 4 5 3	1167 1163 1286 1245
LOWER SOUTHERN 03 LA PLATA 1 W MECHANICSVILLE 5 NE OWINGS FERRY LANDING PATUXENT RIVER TALL TIMBERS	0 0 0	0 0 0	3 1 2 0 2 0 1 5	8 8 4 7	65 62 8 66 60	268 288 270 349	3 0 7 3 2 3 2 9 8 4 0 1	2 6 4 2 7 6 3 0 1 3 5 7	1 5 4 1 6 5 1 7 4 2 3 6	1 1 2 4 3 7 4 6	2 3 1 6	0 0	1 1 1 0 1 1 6 9 B 1 1 7 1 1 4 7 7	1071
UPPER SOUTHERN 04 ANNAPOLIS POLICE BRKS BALTIMORE WSO ARPT R BELTSVILLE COLLEGE PARK DALECARLIA RESVR DC GLENN DALE BELL STN LAUREL 3 W NATIONAL ARBORETUM DC UPPER MARLBORO 3 NNW	0 0 0 0 0 0 0 0 0	B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 1 4 1 0 B 1 6 B 1 1 B 1 3 	3 5 8 2 4 3 3 2 3	7 0 5 8 5 2 8 7 5 7 5 8 6 5 4 4	306 273 273 206 269 269 267	3 6 7 3 5 1 3 4 8 3 9 9 3 3 0 3 3 3 3 3 1 3 3 7 3 1 3	298 298 288 333 270 B 283 	173 178 169 201 170 153 193 139	2 2 2 5 1 7 2 2 2 8 2 7 3 7 9 1 0	0 1 4 2 0 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 5 1 1 2 0 6 B 1 1 6 3 B 1 3 7 8 B 1 1 4 5 B 1 1 3 1	1138 917 1203 1209 1008 1220
NORTHERN EASTERN SHORE 05 CHESTERTOWN MILLINGTON 1 SE	0	0	1 3 1 6	4 5	7 3 5 7	319 290	3 6 8 3 2 2	327 B 275	180 177	2 2 2 3	3	0	1309 B1167	1158
NORTHERN CENTRAL 06 ABERDEEN PHILLIPS FLD BALTIMORE WSO CITY R BENSON POLICE BARRACKS BOYDS 2 NW CATOCTIN MOUNTAIN PARK CLARKSVILLE 3 NNE CONOWINGO DAM DAMASCUS 2 SH EMMITSBURG 2 SE FREDERICK POLICE BRKS MILLERS 4 NE ROCKVILLE 1 NE TOWSON UNIONVILLE WESTMINSTER POLICE BRK	- 0000000000000000000000000000000000000	B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B 9 2 2 2 1 2 1 6 B 8 1 5 B 0 1 3 1 1 1 1 2 5 7 1 1 1 1 4	B 6 25 1 3 2 2 0 0 4 0 7 7 0 5 0 0 0 1	64866244823205678845534455	7771 7771 2983465 222200 1222200 22396 222396	4716 4716 3716 1729 3704 2704 2717 3717 3717 3717 3718	299 4301 2757 12874 225481 2290 2290 2290 2295	24 1 1 5 1 4 6 1 4 4 4 1 4 5 1 3 9 1 1 5 2 9 1 1 2 6 1 0 7 1 5 1	- 81 3 0 1 1 9 9 7 1 8 3 7 2 2 3 2 2 1 1 8 2	700000000000000000000000000000000000000		1 7 9 7 1 1 7 9 0 B 1 0 7 2 B 6 4 3 1 0 9 8 5 1 0 8 7 1 3 8 7 3 1 1 1 0 7 9 7 4 B 8 7 7 1 1 4 7	1545 944 928 1063 759 841 896
APPALACHIAN MOUNTAIN 07 CUMBERLAND 2 FROSTBURG 2 HAGERSTOWN HANCOCK	B 0 0 0	B 0 0 0	1 6 4 1 5 7	2 0 3 0	6 3 1 4 6 2 3 3	1 9 1 8 3 2 2 7 1 7 4	3 0 4 1 3 9 - 2 8 1	2 4 2 9 0 2 6 5 2 1 3	1 0 4 3 9 1 2 1 1 0 3	1 1 2 2 2 8	0 0 0		B 933 B 371	902 935 692
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MONTHLY AND SEASONAL COOLING DEGREE DAYS BASE=65 DEGREES FAHRENHEIT

				RAZE =	מת כס	LUKEE	2 LAL	TRENH	_ 1 1					
STATION	JAN	FEB	MAR	APR	МАҮ	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
ALLEGHENY PLATEAU 08 MC HENRY 2 NW OAKLAND 1 SE SAVAGE RIVER DAM	0 0 0	0 0	6 B 4 O	0 0	1 5 9 1 2	8 3 8 7 1 1 4	171 155 209	8 7 9 6 1 3 1	4 3 4 4 6 6	1 2 2	0 0	0 0	406 B 397 534	276 417
DELAWARE														
NORTHERN 01 NEWARK UNIVERSITY FARM HILMINGTON WSO ARPT R HILMINGTON PORTER RSVR	0 0 0	0 0 0	5 6 6	0 0 0	6 0 6 1 5 4	260 287 257	3 3 9 3 4 5 3 2 2	3 0 5 2 9 9 2 7 7	171 162 152	2 1 1 7 1 8	0 0 0	0 0	1 1 6 1 1 1 7 7 1 0 8 6	1003
SOUTHERN 02 DOVER GEORGETOWN 5 SW GREENWOOD 2 NE LEWES MILFORD 4 SE.	0 0 0 0	. 0 0 0 0	B 20 6 16 18 15	4 3 3 7 7	6 1 5 1 6 3 B 6 0 B 5 4	3 1 0 3 1 3 3 0 1 3 4 4 3 1 9	3 8 4 3 3 9 3 3 2 3 8 5 3 4 2	3 4 5 2 8 9 2 8 2 3 5 0 2 9 9	2 1 1 1 8 4 1 7 3 2 4 0 1 9 3	4 3 2 9 2 7 4 5 3 8	0 7 0 4 3	0	B 1 3 7 8 1 2 2 1 1 1 9 7 B 1 4 5 3 B 1 2 7 0	1179 1050 946 1101
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STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	0·C T	NOV	DEC	ANNUAL
MARYLAND UPPER SOUTHERN 04		1	,											
BELTSVILLE	WIND EVAP MAX TEMP MIN TEMP	- - -	- - -	- - -	B 1159 B 4.53 M 70.0 M 44.4	750 B 4.69 M 77.8 M 55.5	521 5.70 89.9 68.0	618 B 6.61 92.4 70.0	883 5.06 M 87.7 M 67.3	915 B 4.33 82.4 60.3	1098 B 2.88 M 68.4 M 47.8	- - -	- - -	- - -
UPPER MARLBORO 3 NNW	WIND EVAP MAX TEMP MIN TEMP	. - - -	- - - -	-	B 217 B 4.92 64.5 45.1	B 5.13 70.7 55.6	B 6.08 77.2 67.6	- 6.23 79.3 67.4	4.58 78.7 65.6	B 4.20 76.1 59.6	B 3.77 64.2 47.0	-	- - -	- - M - M -
ALLEGHENY PLATEAU OB SAVAGE RIVER DAM	WIND EVAP MAX TEMP MIN TEMP	- - - -	1 1 1		B 1513 B 4.77	1248 B 4.44	774 - - -	747 B 4.35	870 B 4.08	841 B 2.99	1040	-	- - -	- - -
DELAWARE NORTHERN 01 NEWARK UNIVERSITY FARM	WIND EVAP MAX TEMP	· -	- - -	- - -	1304	1218 B 4.88	905 B 5.92	797 B 6.47	811 B 4.79	1055 B 3.89	1117 B 2.79	- - -		
SOUTHERN 02 GEORGETOWN 5 SW	MIN TEMP WIND EVAP MAX TEMP MIN TEMP	- - 	- - - -	. - - -	2492 7.60 M 69.0 M 45.3	2222 8 5.81 77.1 55.3	1921 B 7.51 89.9 69.0	1534 B 8.33 92.1 69.4	1 4 2 9 - 8 7 . 0 6 8 . 4	1536 8 4.45 83.9 62.6	1729 B 4.07 71.2 50.0	- - - -	- - - -	- - M - M -
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STATION	INDEX NO.	DIVISION NO.	COUNTY	LATITUDE	LONGITUDE	ELEVATION FEET		PRECIP. CAP.	ONTH ON	MONTH D'AC	SEE REFERENCE NOTES
MARYLAND ABERDEEN PHILLIPS FLD ANNAPOLIS POLICE BRKS ASSATEAGUE IS NATL SEA BALTIMORE WSO ARPT R BALTIMORE WSO CITY # R BELTSVILLE BENSON POLICE BARRACKS BOYDS 2 NW	0 1 9 3 0 3 3 5 0 4 6 5 0 4 7 0 0 7 0 0 0 7 3 2	0 4 0 1 0 4 0 6 0 4 0 6	ANNE ARUNDEL BALTIMORE CI PRINCE GEORG HARFORD	3 9 2 8 3 8 5 9 3 8 1 4 3 9 1 1 7 3 9 2 3 9 3 0 3 9 1 3	76 10 W 76 30 W 75 8 W 76 40 W 76 37 W 76 53 W 76 23 W 77 20 W	5 7 3 0 7 1 4 1 2 0 3 6 5 - 5 8 1	2 2 5 5 1 1 9 5 2 4 2	3 1 2 2 5 5 1 1 9 5 2 4 4 2	000000000000000000000000000000000000000		C H H J C H
BRIGHTON DAM CAMBRIDGE WATER TRMT P CATOCTIN MOUNTAIN PARK CHESTERTOWN CLARKSVILLE 3 NNE COLLEGE PARK CONOWINGO DAM CRISFIELD SOMERS COVE CUMBERLAND 2	1 3 8 5 1 5 3 0 1 7 5 0 1 8 6 2 1 9 9 5 2 0 6 0 2 2 1 5	0 6 0 5 0 6 0 4	MONTGOMERY DORCHESTER FREDERICK KENT HOWARD PRINCE GEORG HARFORD SOMERSET ALLEGANY	3 9 1 2 3 8 3 4 3 9 3 9 3 9 1 5 3 8 5 9 3 7 5 9 3 9 3 9 3 9 3 9	77 1 W 76 4 W 77 2 9 W 76 4 W 76 5 7 W 76 5 7 W 76 1 0 W 75 5 2 W 78 4 5 W	3 3 1 1 0 1 6 1 0 3 9 3 6 5 9 0 3 9 8 7 3 0	2 3 1 0 3 5 4 2 7	9 5 2 3 8 4 2 3 1 0 3 5 4 2 7	000000000		H C H H C H
DAMASCUS 2 SW DENTON 2 E EDGEMONT EMMITSBURG 2 SE FREDERICK POLICE BRKS FREDERICK 3 E FROSTBURG 2	2 3 3 5 2 5 2 3 2 7 7 0 2 9 0 6 3 3 4 8 3 3 5 5 3 4 1 5	0.6	DIS COLUMBIA MONTGOMERY CAROLINE WASHINGTON FREDERICK FREDERICK FREDERICK ALLEGANY PRINCE GEORG	3 8 5 6 3 9 1 6 3 8 5 3 3 9 4 0 3 9 4 1 3 9 2 2 3 9 4 0 3 9 5 8	77 7 W 77 1 4 W 75 4 8 W 77 3 3 W 77 1 8 W 77 2 2 W 77 2 2 W 78 5 6 W 76 4 8 W	151 722 49 905 420 381 385 2172	0 3 4 1 7 0 1 8		000000000		H H H H
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PATUXENT RIVER POTOMAC FILTER PLANT PRINCESS ANNE ROCKVILLE 1 NE	6 6 2 0 6 7 7 0 6 9 1 5 7 2 7 2 7 3 3 0 7 7 0 5 7 8 0 6	0 4 0 8 0 3 0 3 0 6 0 1 0 6 0 2	DIS COLUMBIA GARRETT CALVERT ST MARYS MONTGOMERY SOMERSET MONTGOMERY TALBOT WICOMICO	3 8 5 4 3 9 2 4 3 8 4 1 3 8 2 0 3 9 2 3 8 1 3 3 9 6 3 8 4 3 3 8 2 2	76 59W 79 24W 76 40W 76 25W 77 15W 75 45W 77 6W 76 11W 75 35W	10	9 2 7 3 1 4 0 4 1 4 2 4 2	4 3 9 2 7 3 1 4 2 8 4 1 4 2 4 2 8 3	00000000000		H H C H
SALISBURY FAA ARPT # SAVAGE RIVER DAM SNOW HILL 4 N TALL TIMBERS TOWSON UNIONVILLE UPPER MARLBORO 3 NNW VIENNA WESTMINSTER POLICE BRK	8 0 6 5 8 3 8 0 8 7 5 7 8 8 7 7 9 0 3 0 9 0 7 0 9 1 4 0	0 1 0 8 0 1 0 6 0 6 0 6 0 6	WICOMICO GARRETI WORCESTER ST MARYS BALTIMORE FREDERICK PRINCE GEORG DORCHESTER CARROLL	38 20 39 31 38 14 38 10 39 23 39 27 38 52 38 29 39 33	75 31 W 79 8 W 75 23 W 76 33 W 77 11 W 77 11 W 75 50 W 76 58 W	1 4 9 5 3 0 1 2 3 9 0 4 3 0 9 8 1 0	3 9 7 4 2 5 2 5 0 3 4	7 4 2 7 7 4 8	0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		C H H
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MARYLAND AND DELAWARE 1989	_
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STAT	ION	INDEX

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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 (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.
- I 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 leq. 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

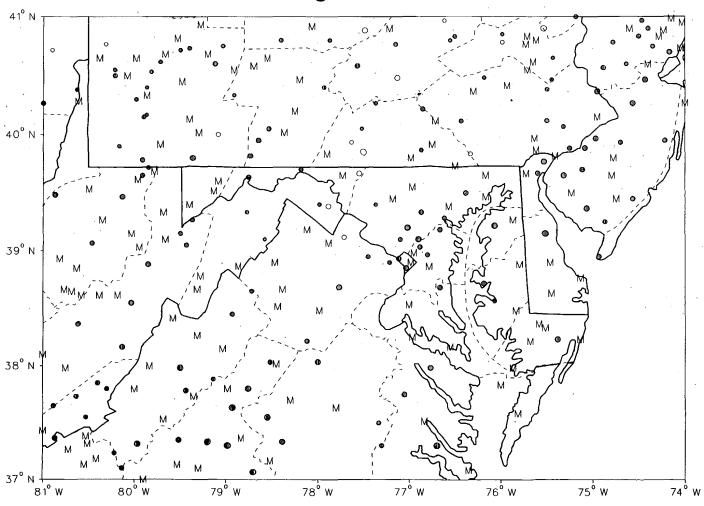
CUMULATIVE ANNUAL PRECIPITATION DEPARTURE FROM INDIVIDUAL STATION NORMALS (1951–1980) FOR 1989 DELAWARE

M INCOMPLETE DATA FOR THE PERIOD

▼ EXACTLY NORMAL

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

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

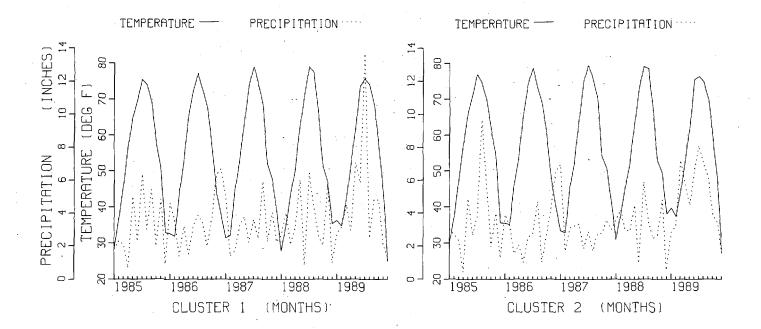


CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

MONTHLY TEMPERATURE AND PRECIPITATION FOR THE LAST 60 MONTHS ENDING DECEMBER 1989 DELAWARE

CLUSTER 1 -DIVISION(S): NORTHERN 01

CLUSTER 2 -DIVISION(S): SOUTHERN 02



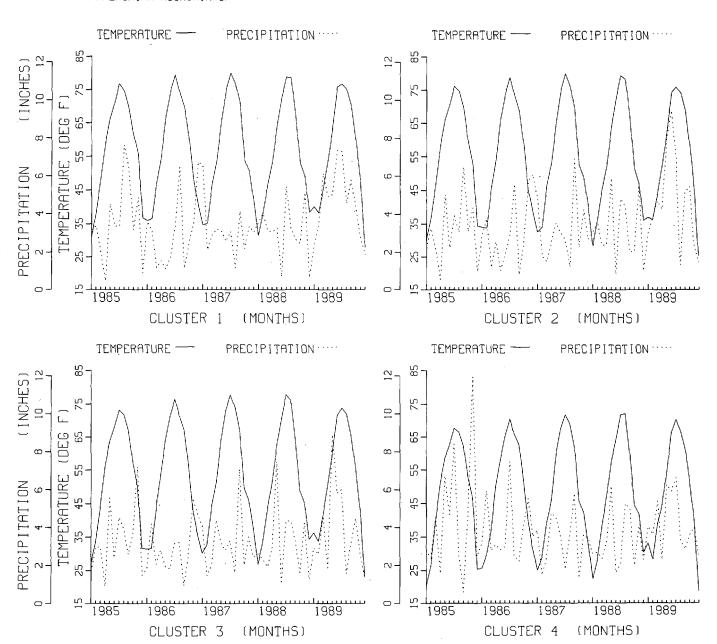
MONTHLY TEMPERATURE AND PRECIPITATION FOR THE LAST 60 MONTHS ENDING DECEMBER 1989 MARYLAND

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

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

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

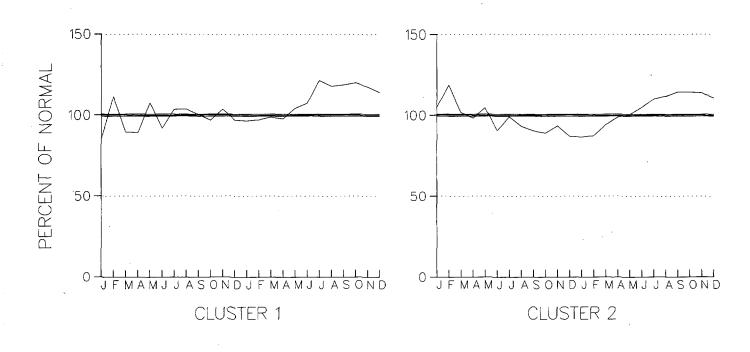
CLUSTER 4 -DIVISION(S): ALLEGHENY PLATEAU 08



CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951–1980) FOR THE LAST 24 MONTHS ENDING DECEMBER 1989 DELAWARE

CLUSTER 1 - DIVISION(S): NORTHERN 01

CLUSTER 2 - DIVISION(S): SOUTHERN 02

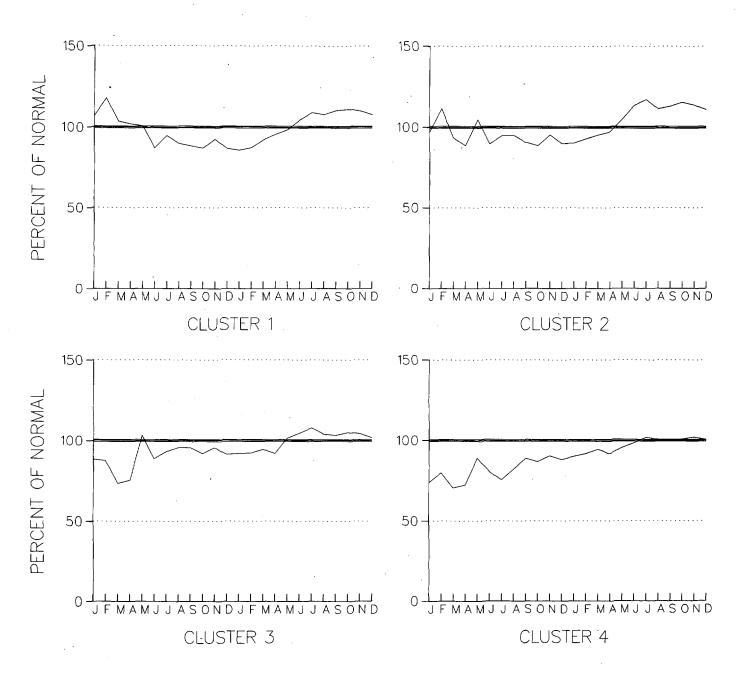


CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951–1980) FOR THE LAST 24 MONTHS ENDING DECEMBER 1989 MARYLAND

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

CLUSTER 3 - DIVISION(S): NORTHERN CENTRAL 06 APPALACHIAN MOUNTAIN 07 CLUSTER 2 - DIVISION(S): UPPER SOUTHERN 04 NORTHERN EASTERN SHORE 05

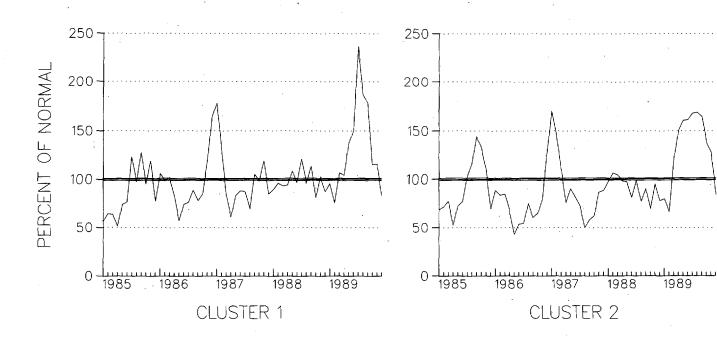
CLUSTER 4 - DIVISION(S): ALLEGHENY PLATEAU 08



PRECIPITATION DEPARTURES FROM NORMAL (1951–1980) THREE MONTH RUNNING MEAN FOR THE 60 MONTHS ENDING WITH DECEMBER 1989 DATA DELAWARE

CLUSTER 1 -DIVISION(S): NORTHERN 0.1

CLUSTER 2 - DIVISION(S): SOUTHERN 02

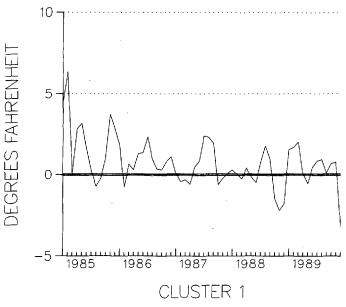


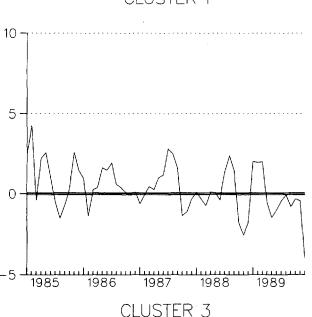
TEMPERATURE DEPARTURES FROM NORMAL (1951–1980) THREE MONTH RUNNING MEAN FOR THE 60 MONTHS ENDING WITH DECEMBER 1989 DATA MARYLAND

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

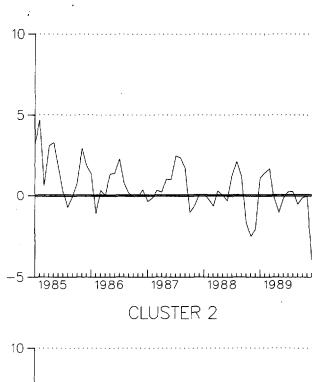
CLUSTER 3 - DIVISION(S): NORTHERN CENTRAL 06 APPALACHIAN MOUNTAIN 07 CLUSTER 2 -DIVISION(S): UPPER SOUTHERN 04 NORTHERN EASTERN SHORE 05

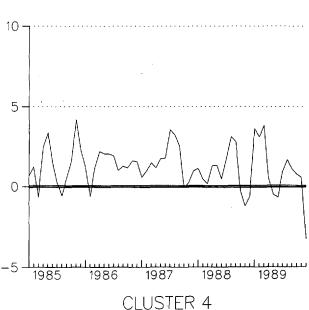
CLUSTER 4 - DIVISION(S): ALLEGHENY PLATEAU 08

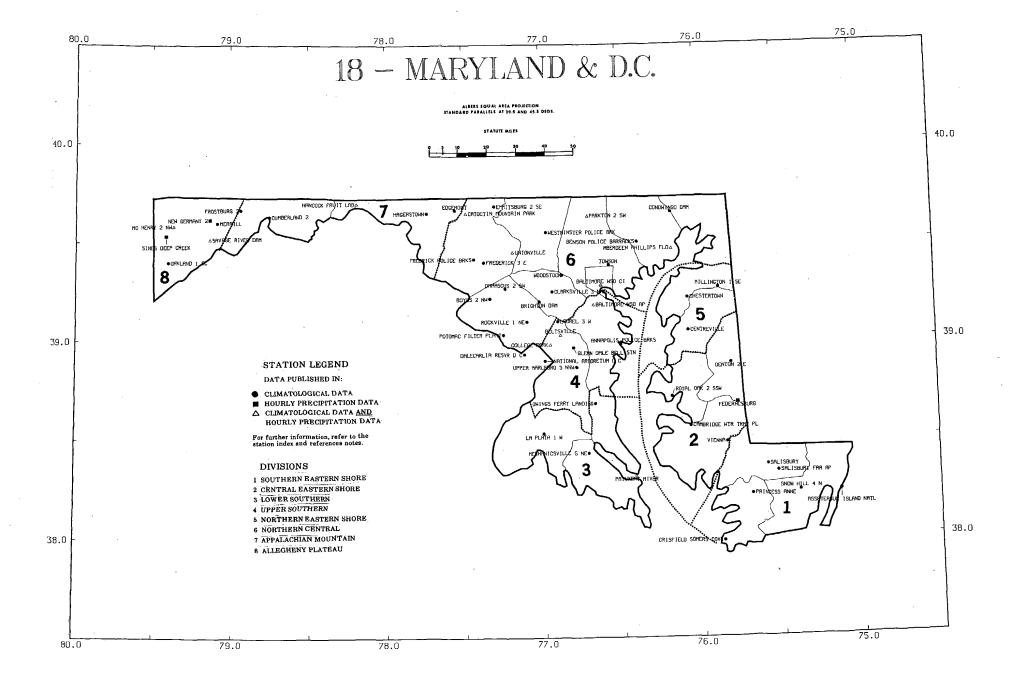


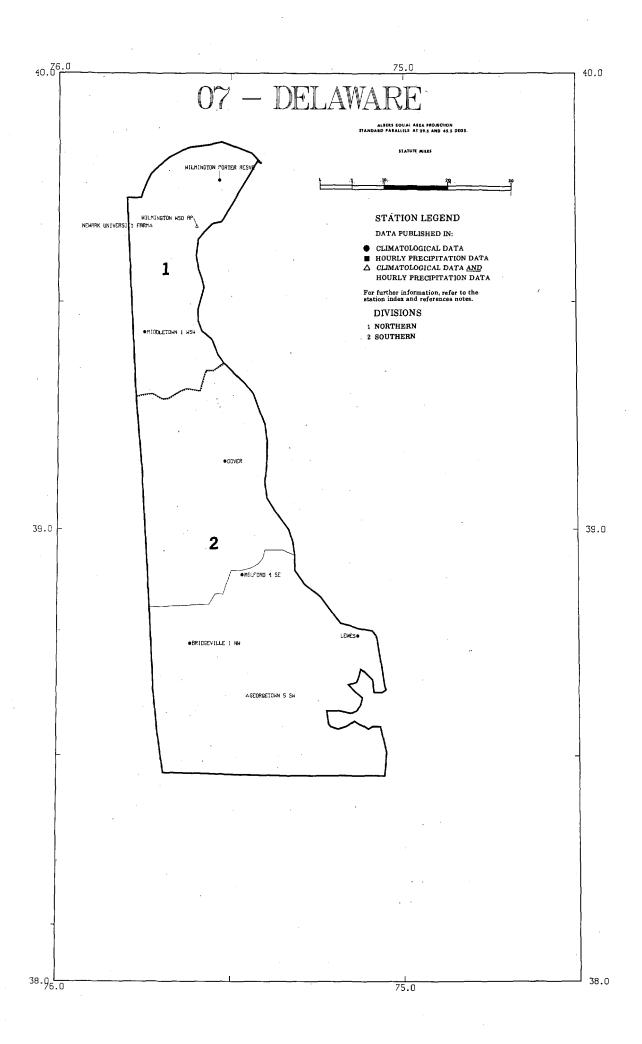


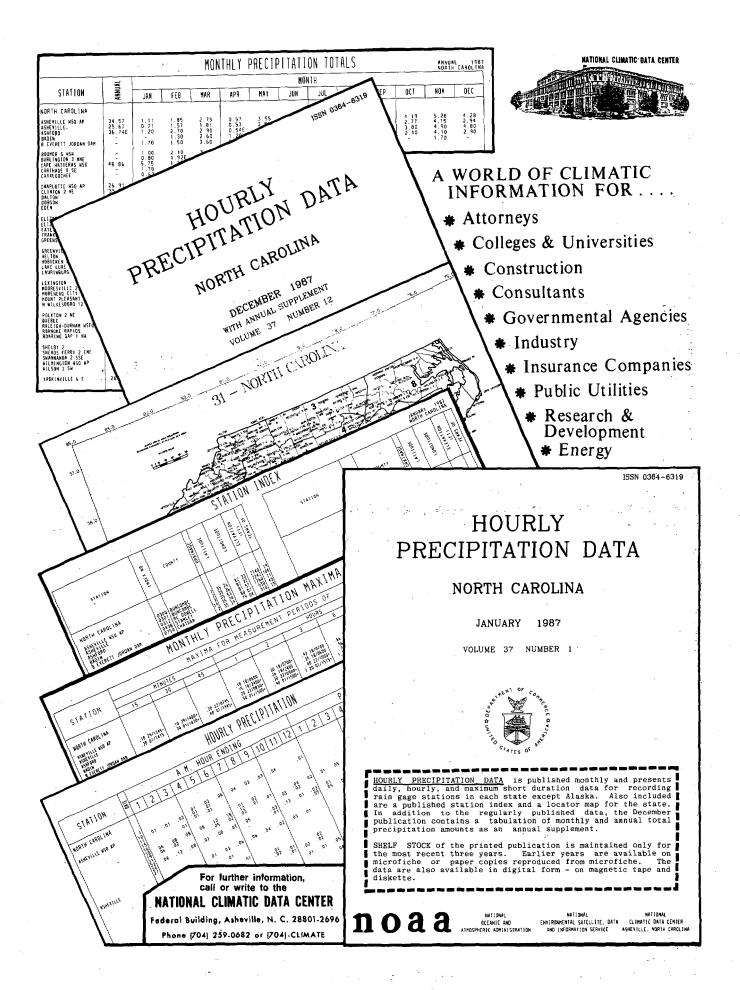
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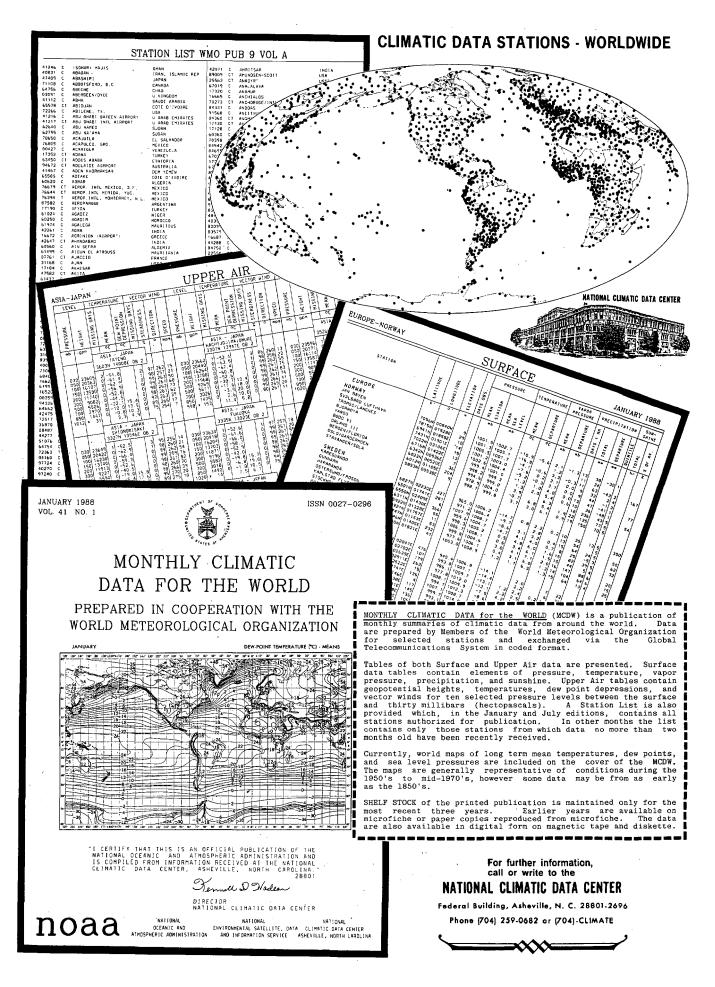


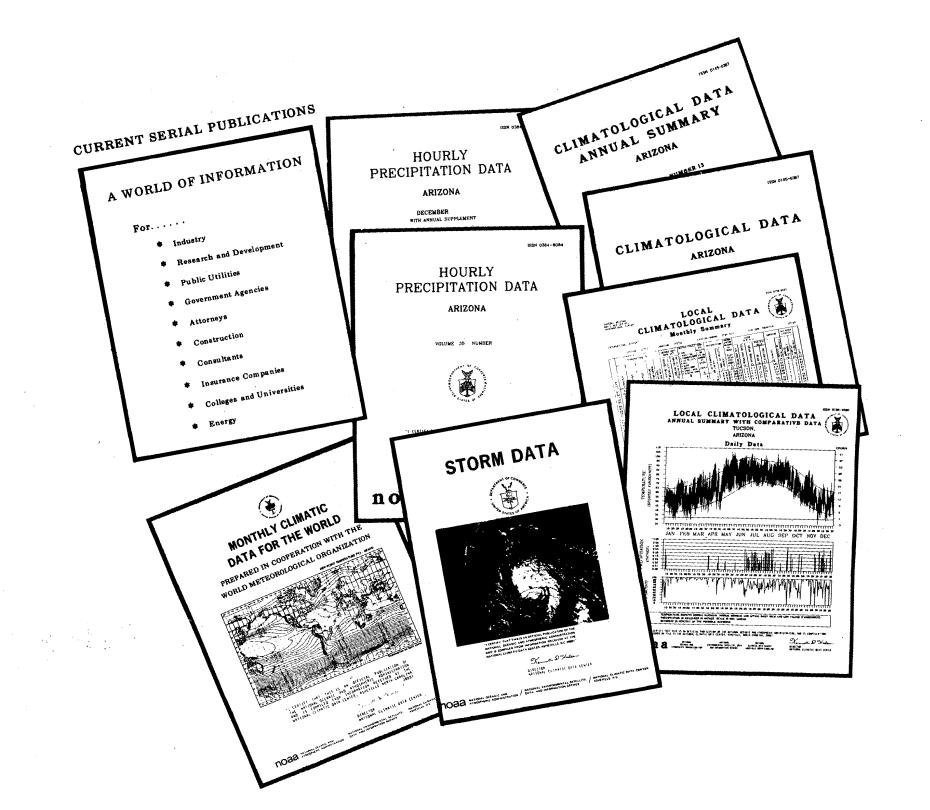












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