## CLIMATOLOGICAL DATA ANNUAL SUMMARY

## MARYLAND AND DELAWARE 1990

**VOLUME 94 NUMBER 13** 



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Hammell D Wadeen

NATIONAL CLIMATIC DATA CENTER

STATION	JA	N	FE	В	МД	R	AF	°R	MΑ	Υ	JL	1990 JN
	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 SALISBURY FAA ARPT SNOW HILL 4 N	4 . 4 0 2 . 5 2 M 3 . 3 8 3 . 6 0 3 . 3 1	1 4	4 . 5 4 3 . 5 6 1 2 . 7 0 3 . 4 4 3 . 5 9	7 1 . 1 1 0 1	3 . 5 9 3 . 4 1 3 . 0 3 3 . 0 4 3 . 4 1 3 . 7 6		3 . 3 9 2 . 8 8 3 . 3 0 3 . 5 6 3 . 0 6 3 . 1 0	0 2 . 2 5 1 0 2 2	7 . 6 4 5 . 5 1 6 . 8 8 6 . 6 4	4 . 29 2 . 19 3 . 50 3 . 21	2.11	-1.51 -1.27 -2.46 -1.44 -2.40
DIVISIONAL DATA> CENTRAL EASTERN	3.44	. 0 2	3,57	. 26	3.37	78	3.22	.06	6.49	3.18	1.66	- ' . / /
SHORE 02 CAMBRIDGE WATER TRMT P DENTON 2 E ROYAL OAK 2 SSW VIENNADIVISIONAL DATA>	3.86 M 4.10 4.02 3.99	. 50	1 . 8 6 1 1 . 9 9 3 . 1 6 2 . 3 4	-1.30 -1.21 11 78	3.51 3.59 3.79 3.63	4 8 1 3	4 . 3 1 M 5 . 0 0 4 . 1 5 4 . 4 9	. 8 1	9.79 M 10.17 6.71	6.54 3.69	M 2.52 1.02	9 1 - 2 . 5 4
LOWER SOUTHERN 03 LA PLATA 1 W MECHANICSVILLE 5 NE OWINGS FERRY LANDING PATUXENT RIVER TALL TIMBERS	4 . 6 5 M 3 . 6 6 4 . 4 7 M M	1.51	1 . 9 9 2 . 0 4 1 . 5 2 1	-1.20	3.25 3.37 3.27 4		4 . 9 5 4 . 0 8 4 . 1 4 M	. 9 0	6 . 6 9 8 . 8 8 6 . 3 7 M	1	4 . 0 9 5 . 6 0 5 . 4 1 5 . 0 7	1.70
DIVISIONAL DATA>	4.56	1.29	1.85	-1.06	3.30	4 5	4.39	1.26	7.31	3,72	5.04	1.41
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>	3.99 3.71 4.18 4.14 5.06 4.76 4.50 4.27 3.86	. 7 1 1 . 2 7 1 . 1 3 1 . 9 9	1	- 1 . 0 5 - 1 . 4 7 9 0 - 2 . 1 1 5 8 - 1 . 5 4 1 - 1 . 3 9	2 . 5 4 3 . 0 2 2 . 9 5 3 . 1 7 3 . 5 5 3 . 4 8 4 2 . 8 4 2 . 8 2 3 . 0 8	- 1 . 1 8 4 7 7 0 6 6 1 5 1 8 9 0 6 0	M 4 . 2 3 4 . 7 5 5 . 0 9 4 . 9 7 4 . 7 9 7 4 . 1 0 4 . 4 5 4 . 0 7 4 . 6 2	1 . 3 8 1 . 7 2 1 . 3 7 1 . 2 7	6.39 4.92 6.01 5.73 5.88 6.55 5.70 6.52 6.00	1 . 48 2 . 20 1 . 88 2 . 61 1 . 64 2 . 63 2 . 62	1,32	-1.21 -2.57 -2.10 92 -2.23 92 1.28
NORTHERN EASTERN SHORE 05 CHESTERTOWN MILLINGTON 1 SEOIVISIONAL DATA>	4 . 4 2 M 4 . 1 8 4 . 4 2	1.14	1 . 0 7 1 . 1 9 1 . 1 3	-1.68	3 . 0 4 3 . 5 0 3 . 2 7	9 4 2 0, 4 9	4 . 1 4 4 . 6 3 4 . 3 9		7 . 2 2 7 . 3 5 7 . 2 9	3 . 9 3	2 . 6 3 2 . 3 7 2 . 5 0	-1.30
NORTHERN CENTRAL 06 ABERDEEN PHILLIPS FLD BALTIMORE WSO CITY BENSON POLICE BARRACKS BOYDS 2 NW BRIGHTON DAM CATOCTIN MOUNTAIN PARK CLARKSVILLE 3 NNE	4 . 8 4 4 . 1 8 4 . 8 8 3 . 0 0 4 . 9 5 3 . 7 1 4 . 2 1	1 . 1 1 1 . 4 5 1 . 9 9	1 . 3 8 2 . 3 0 1 . 9 8 2 . 1 4 3 . 0 0 1 . 8 6 1 . 9 5	7 7 9 0 . 2 8	1 . 8 3 2 . 5 4 2 . 6 6 2 . 6 6 3 . 8 3 2 . 9 1 2 . 5 9	-1.39 -1.38 .10	M 3.45 4.52 4.33 4.136 3.15 4.36	. 3 3	7 . 6 1 4 . 6 4 8 . 3 8 6 . 0 4 5 . 7 2 6 . 6 1 6 . 0 2	1.79	1 18	-1.06 2.40 -2.35
		SEE RE	EFERENCF	NOTES FO	OLLOWING	STATION	INDEX					

MARYLAND AND DELAWARE 1990

STATION	JL		AL	I G	SE	Р	0.0	Т	NC	) V	DE	С	ANN	UAL
317(110)(	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>	2 . 26 3 . 18 4 . 88 3 . 06 3 . 5 3 3 . 5 9	59 .81 1 .12 -1 .34 46	5, 13 4, 12 3, 29 4, 28 4, 56 3, 07 4, 13	27 - 2 . 04 - 1 . 44 - 1 . 16 - 2 . 36	4 . 0 1 1 . 1 7 1 . 3 5 2 . 1 5 2 . 0 7 2 . 1 5	-2.62 -1.46 -1.79 -1.46	1.97 2.33 3.59 1.87	-1.18 -1.71 -1.30	3.07	85 57 . 01	3.97 3.01 3.82 3.32 3.88 3.44	1 9	43.19 38.83 42.81 39.50 40.39	-6.00 -2.63 -6.72 -3.38
CENTRAL EASTERN SHORE O2 CAMBRIDGE WATER TRMT P DENTON 2 E ROYAL OAK 2 SSW VIENNADIVISIONAL DATA	5.10 4.45 2.99 4.18	.06 95	6 . 4 9 7 . 9 6 3 . 1 5 5 . 8 7	2.87 -2.48		-1.12	4.38 M.71		1.11 M 1.16	- 2 . 6 5 - 2 . 6 2 - 2 . 4 4	4.24 4.71 M 3.15 4.48	. 97	47.32 52.58 46.87	2.12 7.27 2.75
LOWER SOUTHERN 03 LA PLATA 1 W MECHANICSVILLE 5 NE OWINGS FERRY LANDING PATUXENT RIVER TALL TIMBERSDIVISIONAL DATA>	5.17 3.98 4.11 M M	1.14	6,81 8,91 M M	1.36	1.29	-2.30	3.49 3.17 M M	. 4 1 1 0	1.88 1.17 1.46 M	-1.87	4.03 3.95 4.44 M M	1.15	48.09 1 48.56 48.49	5.47 7.08 6.19
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>	M 5.68 4.71 5.25 4.96 6.01 M 3.94 4.01 4.994	1 . 79 . 57 1 . 19 . 92 1 . 70 26 05	M 6.15 6.17 7.01 6.83 7.97	1 . 5 5 2 . 3 0 1 . 8 3 3 . 3 7 1 . 0 0 1 . 6 4 4 . 3 1	M 1 . 0 7 . 8 9 . 9 6 1 . 4 0 9 1 . 6 6 6 1 . 3 1	-2.39 -2.82 -2.58 -2.02 -2.57 -1.78 -1.92 -2.42	M 2 . 5 7 3 . 6 2 3 . 5 1 4 . 3 8 3 . 9 5 7 3 . 1 8 3 . 5 7	5 4 . 3 8 . 4 0 2 . 8 7 1 . 0 8 . 8 2 . 0 1 . 2 8	1 . 7 2 2 . 10 2 . 01 1 . 9 8 2 . 3 8 2 . 0 9 2 . 1 4 1 . 7 4	-1.01 96 -1.12 77 -1.25 49 94	5 . 8 6 5 . 8 6 5 . 3 1 5 . 4 7 5 . 4 0 5 . 4 0	1 . 46 1 . 99 3 1 . 00 1 . 66 1 . 08 2 . 28 2 . 04 . 82	41.88 44.30 43.91 52.22 47.19 45.52 47.24 46.46	.04 2.22 1.18 9.34 3.44 4.46 4.11
NORTHERN EASTERN SHORE 05 CHESTERTOWN MILLINGTON 1 SEDIVISIONAL DATA>	6.02 6.08 6.05	2.21	8 . 7 1 5 . 8 1 7 . 2 6		1.60	-2.19	3.05		1.12	-1.87 -2.35 -2.04		2.12	49.08 4 46.58 47.98	5.14 5.34
NORTHERN CENTRAL 06. ABERDEEN PHILLIPS FLD BALTIMORE WSO CITY R BENSON POLICE BARRACKS BOYDS 2 NW BRIGHTON DAM CATOCTIN MOUNTAIN PARK CLARKSVILLE 3 NNE	4.32 3.88 4.92 4.10 1.81 5.88 3.92	1 5 . 5 7 - 1 . 7 3	7.59 6.55 8.98 6.17 7.70 5.19	1.98 4.07 3.57	2.38	-2.33 -1.80 -1.69	5.77 M	2.79 2.43	2.46 2.81	90 - 1 . 43 . 19	7.05 4.55	1 . 27	48.98 43.22 60.49 48.66 48.90	17 13.49 6.90
			SEI	REFERE	NCE NOTES	FOLLOW 3 '	ING STATI	ON INDEX						

STATION	JA	N	FE	В	MΑ	R	AF	R	MΑ	, Y	JL	1990
317711017	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 HOODSTOCKDIVISIONAL DATA>	6 . 7 2 4 . 1 3 4 . 3 7 2 . 6 3 4 . 2 7 2 . 7 1 3 . 5 6 6 . 0 5 3 . 7 1 4 . 2 7 4 . 2 3	3.39 .95 .61 2.74 .95 .04 1.13	1 . 7 0 2 . 1 7 1 . 9 2 2 . 0 8 1 . 9 1 1 . 5 4 1 . 7 6 2 . 1 4 2 . 1 3 1 . 5 5 1 . 6 1 2 . 0 4	6 4 5 2 - 1 . 0 5 8 6 - 1 . 2 1	2 . 3 4 3 . 0 4 2 . 0 5 2 . 4 5 2 . 0 6 2 . 7 6 2 . 8 9 4 . 8 1 2 . 0 3 1 . 8 7 2 . 6 4	- 1 . 0 7 6 5 - 1 . 3 5 - 2 . 0 5 - 1 . 3 0	4 . 3 3 3 . 6 8 3 . 8 1 1 4 . 1 3 3 . 9 1 4 . 1 3 1 4 . 1 3 1 3 . 6 9 1 M	. 8 9 3 . 3 3 . 2 3	M 5 . 6 8 5 . 7 4 7 . 2 3 2 5 8 . 2 2 2 7 . 3 7 1 5 . 1 4 8 . 1 2 5 7 7 . 0 5 9 6 . 2 2 6 . 5 9	4.36 1.47 4.11 3.38 3.42	3 . 4 4 1 . 2 4 1 . 8 8 1 . 3 2 2 . 3 2 3 . 2 4 3 . 0 3 5 . 3 6 2 . 3 2 1 . 3 2 3 . 8 0 2 . 8 9	- , 9 6 1 . 3 2 - 1 . 7 6 - 2 . 9 6 2 3
EDGEMONT FROSTBURG 2 HAGERSTOWN	M 4.40 4.06 3.38 M 2.87 3.72	1 . 3 3 . 5 8 . 9 7	1 . 5 3 1 . 8 1 2 . 3 8 1 . 6 4 1 . 2 1 1 . 6 9	8 1 6 2 - 1 . 1 5	1 . 1 7 1 . 8 9 1 . 5 0 1 . 3 3 1 . 0 2	-1.82 -2.05 -2.47	1.43 2.36 1.78	9 3 - 1 . 1 4 - 1 . 4 6	6.06 7.68 7.17 5.48 5.19	1.78	. 8 2 2 . 1 3 1 . 4 4 1 . 5 9 1 . 2 1 1 . 2 7	-2.06 -2.33 -2.65
ALLEGHENY PLATEAU 08 MC HENRY 2 NW MERRILL 0AKLAND 1 SE SAVAGE RIVER DAMDIVISIONAL DATA>	5 . 3 1 2 . 7 0 3 . 4 1 3 . 2 9 4 . 0 0	2 1 3 8 . 6 9 . 4 7	3 . 5 4 2 . 3 5 2 . 3 8 1 . 7 1 2 . 5 4	3 7	1 . 5 9 . 9 1 1 . 0 0 M . 8 2 1 . 3 0	- 3 . 0 1 - 3 . 4 2	3 . 1 6 1 . 7 8 3 . 1 3 1 . 3 8 2 . 5 6	-1.89 -1.38 -2.10	6 . 8 0 5 . 9 7 6 . 5 7 5 . 2 2 6 . 2 0	2.10 2.13 1.55	2 . 4 4 . 9 5 3 . 2 5 2 . 2 0 2 . 6 3	-2.65 -1.11 -1.30
DELAWARE  NORTHERN 01  NEWARK UNIVERSITY FARM  WILMINGTON WSO ARPT R  WILMINGTON PORTER RSVR DIVISIONAL DATA>	4 . 8 1 3 . 5 6 4 . 8 5 4 . 4 1	1 . 7 1 . 4 5 1 . 5 6 1 . 2 8	1 . 8 6 1 . 3 5 1 . 8 1 1 . 6 7	-1.64	2 . 3 2 2 . 1 5 2 . 6 7 2 . 3 8	- 1 . 7 2 - 1 . 4 0	3.94 3.42 3.99 3.78	. 0 3	8 . 6 3 7 . 0 3 8 . 1 4 7 . 9 3	3.80 4.57	5 . 3 7 3 . 9 4 3 . 8 1 4 . 3 7	. 43 19
SOUTHERN 02 DOVER GEORGETOWN 5 SW GREENWOOD 2 NE LEWES MILFORD 4 SEDIVISIONAL DATA>	4 . 0 0 3 . 7 3 3 . 1 4 3 . 7 4 2 . 5 7 3 . 4 4	. 7 6 . 3 8 . 2 7 8 2 . 0 1	1 . 3 9 2 . 4 3 1 . 8 7 2 . 3 1 1 . 5 5 1 . 9 1	5 9	3 . 9 3 3 . 3 2 3 . 7 9 3 . 2 7 3 . 7 2 3 . 6 1	. 06 65 94 31	4.16 3.15	1.30	7 . 8 1 8 . 0 0 8 . 9 8 M 5 . 0 3 9 . 3 8 8 . 5 4	5,90	2 . 1 8	-3.08 -2.29 -1.90
		SEE BI	FFFBFNCF	NOTES E	Ollowing	STATION	INDEX					

STATION	JL	JL	AL		SE		0.0	T	N C	) V	DE	C	ANN	1990 U A L
STATION	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DÉPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
CONOWINGO DAM DAMASCUS 2 SW EMMITSBURG 2 SE FREDERICK POLICE BRKS FREDERICK 3 E	4.68 3,11 4.65 6,22		M 9.24 5.07 6.06 4.15		M 2.03 2.25 1.67 1.93		3 . 27 8 . 20 6 . 45 6 . 30		M 2.72 2.05 2.08		5.49 5.05 4.83 M 3.69		47.05 46.84 1 42.06	
MILLERS 4 NE POTOMAC FILTER PLANT ROCKVILLE 1 NE TOWSON UNIONVILLE WESTMINSTER POLICE BRK WOODSTOCK	3.21 M 4.65 7.03 3.07 3.09 3.56	2.90 52 91	9.61 4.48 5.31	1.98 4.82 .72 1.31	2.26 2.05 1.29 2.47 1.75 1.80	-2.17 -1.68 -1.76	5 . 9 9 6 . 4 4 6 . 6 4 6 . 0 9 5 . 9 5 4 . 2 7 5 . 7 5	3.64 2.66 3.02 1.17	2.71 M 3.00 M 2.83 2.63 3.57	06 26 58	8.05 5.02 4.72	2.50 4.23 1.72 1.23	47.79 48.51 43.50 1 40.57 49.48	7.60 3.51 6.76
DIVISIONAL DATA>	4.39	1		J	1.76		5.83		2.53		5.53	1 1	48.73	5.42
APPALACHIAN MOUNTAIN 07 CUMBERLAND 2 EDGEMONT FROSTBURG 2 HAGERSTOWN HANCOCKDIVISIONAL DATA>	5.47 6.24 7.42 4.86 3.81 5.39	2.99 1.52 .25	4 . 4 4 4 . 6 8 3 . 1 0 4 . 7 8	.61 49 1.48	3 . 4 3 1 . 7 4 4 . 4 7 2 . 2 5 2 . 7 2 3 . 2 2	-2.42 -1.05 50	5.64 8.96	5.67 5.83 4.34	. 87 1 . 82 1 . 17 1 . 15 1 . 07	-1.56 -1.83 -1.60	5.35 6.62 5.24 M 5.21	2.33	49.19 47.98 41.38 138.14 42.28	7.19 2.54 3.83
ALLEGHENY PLATEAU OB MC HENRY 2 NW MERRILL OAKLAND 1 SE SAVAGE RIVER DAM DIVISIONAL DATA>	1 1 . 1 6 8 . 2 1 8 . 7 5 1 0 . 4 2	4.54 4.07 6.80	3 . 6 2 3 . 0 2 4 . 6 4 3 . 7 4	6 4 . 0 4 . 1 3	5 . 1 6 4 . 9 0 4 . 8 3 4 . 3 7	2.04 1.72 1.38	4 . 6 7 4 . 7 2 4 . 1 3 4 . 0 1	1.84	2.01	-1.44 -1.31 -1.25	8.10 5.88 7.7	3 2.75 7 3.87 5 2.97	57.56 42.56 51.69	3.06 4.37 6.55
DELAWARE  NORTHERN NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT WILMINGTON PORTER RSVRDIVISIONAL DATA	5.26 4.27 3.19 4.24	. 37	6.15	2,12	2.64 3.19	62	2.85	04	2.19	-1.72	1	1.62	51.16 44.13 49.04 48.09	8.57 2.75 4.14 5.87
SOUTHERN 02 DOVER GEORGETOWN 5 SW GREENWOOD 2 NE LEWES MILFORD 4 SEDIVISIONAL DATA	4 . 0 6 3 . 8 6 7 . 0 9 6 . 1 2 7 . 1 4	1.96	7.11 4.22 7.99 6.33	1.68 2.63 1.55	1.43 1.97 2.16 3.18	-2.08 -1.10 57	2.34 2.05 3.04 M 3.28	-1.14 29	1 . 1 1 2 . 6 3 1 . 1 2	-1.93 86 -2.31	3.3.	2 6 3 2 9 3 4 3	41.67 41.92 43.22 M 44.38 M 47.09	-2.77 -1.79
			SE		NCE NOTE	S FOLLOW	ING STATI	ION INDE)						

	AVE	RA	GE	TEI	MPE	RA	TUF	RES	AN	ID_	DEP	AR	TUR	ES	FR	MO	NC	RM	AL_	( 0	F)			MARY	LAND DELAH	
	J	ΑN	F	EΒ	M	A R	А	PR	М	ΑΥ	Jl	JN	Jl	JL	Αι	JGi	SI	ΞP	0 (	СТ	N	ΟV	DE	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	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE
MARYLAND					-											-										
SOUTHERN EASTERN SHORE OI ASSATEAGUE IS NATL SEA CRISFIELD SOMERS COVE PRINCESS ANNE SALISBURY SALISBURY FAA ARPT SNOW HILL 4 NDIVISIONAL DATA	41.6 43.4 M 44.7 43.4 44.0	8.0 8.3 8.0	44.3 45.7	7.2 7.7 8.2	46.3 49.8 49.5 49.7 48.3 49.2 48.8	3.9 4.5 3.7 4.1 4.2 3.7	55.5 55.9 54.3 55.3	. 8 . 7 . 1 . 1 . 7	62.8 63.6	-1.0 -1.2 -1.2	73.5	1.5 .9 1.3 1.2	74.7 79.9 78.5 79.0 78.2 78.6	2.5 2.0 1.7 2.7	M 77.9 74.3 76.0 75.3 76.0	. 1 7 . 0 . 0	67.1 68.3	-1.5 -1.6 -2.3 8	62.9 61.0 62.4	4.2 4.3 3.8 3.6 4.3	50.5 51.4 49.8 50.8	2.5 1.9 2.1 2.3			M 59.7 M58.3 59.4	2.6 3.2
CENTRAL EASTERN SHORE 02 CAMBRIDGE WATER TRMT P DENTON 2 E ROYAL OAK 2 SSW VIENNA	43.5 M 42.8 42.0	7.8 6.1	45.6 M 45.2 M44.3	8.5 6.8	49.5 M 48.9 48.7 49.0	3.7	57.1 M 56.0 M56.8	. 2 1 . 2	64.5 M 63.4 63.7	-1.8 -1.1	74.8 M 73.8 73.8 74.1	1		. 8 . 9		-1.2 -1.6		-1.8	60.9	5.3 4.0 2.0 4.0	49.4	2.6	43.1	5.9	1	2.4
LOWER SOUTHERN 03 LA PLATA 1 W MECHANIESVILLE 5 NE OWINGS FERRY LANDING PATUXENT RIVER TALL TIMBERS	43.5 43.1 42.8 M		46.1 45.5 45.4 M		50.8 50.0 49.5 M	5.6 4.9	56.5 55.6	1.0	62.0 62.2 62.7 M		71.7 71.8 72.4 73.8 M		76.0 76.6 76.9 M		73.2 73.1 73.9 M M		66.0 65.7 66.7 M		61.2 60.2 61.2 M	3.6 3.5	50.2		43.6		58.5 58.1 58.4 M	İ
DIVISIONAL DATA	-> 43.1	8.2	45.7	8.8	50.1	4.9	55. <b>9</b>	. 2	62.3	-2.3	72.4	. o	76.5	2	73.4	-2.2	66.1	-3.2	60.9	2.9	50.4	2.4	43.7	5.	58.4	2.1
UPPER SOUTHERN. 04 ANNAPOLIS POLICE BRKS BALTIMORE WSO ARPT BELTSVILLE COLLEGE PARK DALECARLIA RESVR DC GLENN DALE BELL STN LAUREL 3 W NATIONAL ARBORETUM DC UPPER MARLBORO 3 NNW	40.4 42.0 40.0 41.5 39.9 41.5 42.7 41.8	9.3 8.7 7.5 6.0 8.3 9.3 7.0	43.4 42.5 44.3 42.7 M43.9 40.9	8 0 7 2 6 2 8 9 7 0 7 1	49.6 47.9 47.6 48.8 48.6 46.6	5.5 5.0 3.0 3.7 4.6 3.0	55.3 54.0 53.6 55.6 54.9	1.0 1 -1.7 6 .4 -1.3	61.3 62.9 61.0 61.6 M 63.0 60.0	-1.1 5 -1.8 -4.0 -1.8	70.2	1.7 1.0 -1.2 .3 .4	78.6 75.0	2 . 1 1 . 7 - 1 . 2 1 . 3	71.5	4 9 - 3 . 5 - 1 . 3	68.7 66.1 67.5 67.3 68.1 64.0	9 5 - 3 .1 5 - 2 .3 - 2 .0	58.0 60.7 61.4 61.5 57.8	3.2	48.8 50.7 47.6 49.3 M51.2 50.4 47.2	3.3 3.8 3.8 3.6 3.7 2.3	41.0 42.2 40.1 43.2 42.2 42.8 39.1	5. 4. 6. 5. 4.	7 56.8 58.7 56.4 57.6 3M 3M58.5	3.2 2.7 .4 2.7
~-DIVISIONAL DATA NORTHERN EASTERN	-> 41.0	/.8	42.6	7.5	48.0	4.3	54.2	2	61.8	-1.9	72.2	. 3	77.3	. 8	73.6	-1./	66.9	-1.8	60.2	3.2	49.1	2.5	41.6	4.	57.4	2.1
SHORE 05 CHESTERTOWN MILLINGTON 1 SEDIVISIONAL DATA	41.1 41.5 -> 41.3	9.3	42.1 43.7 42.9	7.1 9.6 7.8		3.4 4.6 3.6		1.1	62.0 61.9 62.0	8	73.3 71.4 72.4	. 3	77.2 77.0	1.4	74.0 74.0 74.0	5	66.4	-1.6	61.2 M 61.2		49.0 49.6 49.3	3.5		6.0	57.5 M	
NORTHERN CENTRAL OG ABERDEEN PHILLIPS FLD BALTIMORE WSO CITY BENSON POLICE BARRACKS BOYDS 2 NW CATOCTIN MOUNTAIN PARK CLARKSVILLE 3 NNE CONOHINGO DAM DAMASCUS 2 SW EMMITSBURG 2 SE FREDERICK POLICE BRKS MILLERS 4 NE	R 46.0 39.7 42.0 38.0 41.2 37.2 41.5 39.3 39.9	10.5 8.5 7.0	M42.33 46.9 41.33 32.38 42.38 40.35 40.55	8.9 8.3 6.5	M47.7 51.0 47.0 48.4 45.2 47.0 44.1 47.7 45.8 49.4 46.1	5.5 4.9	M54.8 59.2 54.7 55.4 51.5 52.1 54.3 56.0 53.2	2.4. 1.9 .1	M61.6 65.4 65.6 61.5 57.8 61.4 60.3 60.0	9 3 . 2 6	71.6 77.3 M 71.2 68.5 71.2 74.6 71.2 70.1 74.3 69.6	2.0 4.0	M 81.3 77.0 75.3 71.6 76.9 77.3 75.3 74.1 78.2 73.9	1.42.1	M74.6 78.2 73.8 72.6 73.3 74.5 71.4 75.6	2 . 0	M 71.0 67.9 65.5 62.9 66.0 67.2 65.6 64.3 68.7	7 . 4	M61.8 63.9 M M 57.1 59.5 59.1 57.8 61.5 58.5	3.8	M 51.1 M 50.5 46.9 M 49.7 46.9	1.5	M 42.2 42.4 41.5 37.7 41.3 38.4 40.6 39.1 42.0 40.0	2.9 7.3	M 61.1 3 M 53.8 55.2 55.4	3.1
ROCKVILLE 1 NE TOHSON UNIONVILLE	41.6 40.3 39.0		42.1 42.7 39.7		47.3 47.9 45.3		54.4 55.3 51.8		61.8 59.9	   -1.0	71.8 72.6 69.8 S FOLLO	. 5	75.1 76.9 74.8 Tation	1.2	73.0 74.3 71.7		66.2 66.9 64.3		59.3 61.2 57.6		49.4 M 46.2	Į.	41.9 M 39.1	Į	56.9 M 7 54.9	l

	AVE	RA	GE	TE	MPE	RA	TUF	RES	AN	ID_	DEF	PAR	TUF	RES	FF	MOS	NO	IRM.	AL	( 0	F)				LAND Delaw 1	
	J	ΑN	F	ΕВ	M	ΑR	А	PR	М	ΑY	J	UN	J	UL	А	UG	SE	EΡ	0	СТ	N	0 V	D	EC	ANI	NUAL
STATION	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TERPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE	TEMPERATURE	DEPARTURE
WESTMINSTER POLICE BRK WOODSTOCKDIVISIONAL DATA>	40.5 41.6 40.7	10.2	42.4	9.9 8.9 8.2	48.0		54.6 55.0 54.3	2.1		, 1	71.9	1.6	75.5 77.0 76.0	2.1	74.1	. 6	65.2 66.4 66.1			4.8	49.2	4.5	41.2	6.0	57.4	3.9
APPALACHIAN MOUNTAIN 07 CUMBERLAND 2 FROSTBURG 2 HAGERSTOWN HANCOCKDIVISIONAL DATA	M 35.1 39.1 38.1 37.4	8.9	38.3	6.0 7.2	44.7	3.3 4.7		-1.2	54.1 59.9 58.9	-3.2 -1.3		·2	73.7 68.3 M 73.9	1.0	i	-1.4 5	65.0 60.1 M63.9 64.0	-2.9		2.8	44.2 47.9 46.2	3.6 3.4	37.1 34.3 38.2 36.5	4.C	50.1 M	2.5
ALLEGHENY PLATEAU 08 MC HENRY 2 NH OAKLAND 1 SE SAVAGE RIVER DAM DIVISIONAL DATA	33.5 36.4 35.3	10.2	35.9	8.0	39.9 41.7 41.5 41.0	4.7	47.6 47.5 49.0 48.0	. 3		-1.5 -1.5	64.2 64.5 65.7	. 9	68.2 67.6 69.4	. 2	66.6 66.5 67.7 66.9	9	59.9 60.9 62.0	. 0	51.5 52.8 53.2 52.5	3.3	44.4	4.1	35.0	6.E		3.3
DELAWARE			30.4	,,,	'''	3.2	10.0		33.0	'	04.0		00.4		00.7	. '	00.3		32.3		1,3.0		03.0	J.,	30.7	3.2
NORTHERN 01 NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT F WILMINGTON PORTER RSVR	40.3	9.3 9.5	1	7.9 8.5	l .	4.2	53.7 53.7 53.3	1.3	61.9 61.5 61.0	7	72.1 7.72.1 5.71.7	1 . 3	76.6 77.4 76.1	1.4	74.3 74.6 74.8	1.1	66.6 66.7 66.3	-1.2 6	60.0	3.7	48.9	3.	J	5.5	56.8	3.4
SOUTHERN 02 DOVER GEORGETOWN 5 SW GREENWOOD 2 NE LEMES MILFORD 4 SEDIVISIONAL DATA	42.5 42.9 43.1 44.7 43.3	8.1 8.7 10.1 9.0	45.0 42.5 43.5 46.0 44.9	8.6 6.7 9.9	46.9 47.2 49.0 48.2	3.5 3.4 5.7 3.9	53.6 54.8 53.6 55.3 54.8 54.8	.1 6 2.2	61.5 61.0 63.7 62.8	-2.3 -1.6	1	2.3	76.7 79.0 77.9 78.8 78.6 78.1	2.0	73.8 76.1 74.5	1.0 4 1.8 7	66.5 68.8 65.4 65.8 68.9 67.2	8 - 3 . 0	)	5.0 3.8 0, 6.2 7, 5.0	51.0 48.9 49.4 52.8 51.2	2 . 8 9 1 . 7 8 4 . 8 9 3 . 6	43.9 42.9 47.	5.8 6.8 8.6 7.3	57.6 59.9 58.8	2.8 2.2 5 4.8 3.1
								SEE RI	EFERENC	E NOTE	SFOLL	OHING	STATIO	INDEX												

## TEMPERATURE EXTREMES AND FREEZE DATA (°F)

MARYLAND AND DELAWARE 1990 NUMBER OF DAYS BETWEEN DATES

					LA	S	T SI	PR	ING	М	INI	MU	M 01	F	F	ΙF	RST	FF	\LL	ΜI	NIM	1U1	1 OF	ı				DAYS
STATION	EST		5.1		16° OR BELOW		20° O		24°0 BELO		28° 0		32°0 BELOI		32°01 BELOM		28°0 BEL01		24°0 BELOW		20°0 BELOI		16°0 BELO	R a	BELOW	BELOW	1000	BELOW BELOW
	нІбн	DATE	LOWE	DATE	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	16 * 0#	20° 0R		32°0R
MARYLAND						7																						
SOUTHERN EASTERN SHORE 01 ASSATEAGUE IS NATL SEA CRISFIELD SOMERS COVE PRINCESS ANNE SALISBURY SALISBURY FAA ARPT SNOW HILL 4 N	96 96 96 97	7 / 5 7 / 5 7 / 5	15	3 / 8 2 / 2 6 2 / 2 7 3 / 8 3 / 8	NONE 3/8 3/8 3/8	13 14 13 15	3/8 3/8 3/8 3/8 3/8	20 14 13 15	3/8 3/8 3/28 3/28 3/28 3/28	20 22 24 22	3/8 4/19 4/9 4/13	20 28 27 28	3/28 4/19 4/19 4/19	30 28 30 30	12/ 1 10/27 10/27 10/27	29 31 31 32	12/ 7 11/ 9 11/ 9 10/30	28 24 28 28	12/24 12/25/ 11/ 9 12/ 6 12/ 1		NONE 12/25 12/25 12/26	20 19 19	NONE NONE NONE NONE NONE		2	9222 9222 9225 9324	32 32 32	23191 74248 04191 14191 00191
CENTRAL EASTERN SHORE 02 CAMBRIDGE WATER TRMT P DENTON 2 E ROYAL OAK 2 SSW VIENNA	99	7/ 5		2/26 2/26 2/26	MSG 2/26	12 16 14	3/8 MSG 3/8	20	3/ 8 MSG 3/ 8 3/28	20	MSG 3/28	27	MSG 4/13	29		ll	12/ 1 MSG 12/ 6 MSG	27 26	12/25 MSG 12/25 MSG	1 1	NONE MSG NONE 12/25	15	NONE MSG NONE 12/25	152	922	29	ŀ	48194 53200
LOWER SOUTHERN 03 LA PLATA 1 W MECHANICSVILLE 5 NE OWINGS FERRY LANDING PATUXENT RIVER TALL TIMBERS	94 95 95	7/ 5	12	2/26 2/26 2/26	3 / 8	1 4 1 4 1 4	3/8 3/8 3/8 MSG MSG	14		23	4/13	25	4/19	29		28	10/27		12/ 6 11/19 12/ 6 MSG MSG	24	12/25 12/25 12/25 MSG MSG	18	NONE NONE NONE MSG MSG		2	922	36 1	14194 97191 10191
UPPER SOUTHERN 04 ANNAPOLIS POLICE BRKS BALTIMORE HSO ARPT BELTSVILLE COLLEGE PARK DALECARLIA RESVR DC GLENN DALE BELL STN LAUREL 3 W NATIONAL ARBORETUM DC UPPER MARLBORO 3 NNH	R101 101 100 99 97	7/ 6 7/ 6 7/ 6 7/ 6 7/ 6	12 12 5 5 5 5 14	2/26 12/25 2/26 2/25 2/26 2/26 2/26 2/27 2/26	3/8 2/26 3/7 3/8 2/26 2/27	13 15 12 14 10 5 14	MSG 3/8 3/8 3/8 4/8 3/28 3/7 3/9 3/28	15 17 20 20 18 19	MSG 3/8 3/28 3/8 4/13 4/13 3/7 3/9 4/13	23 17 21 22 18 19	4/13 4/13 4/19 4/19 3/28 4/14	26 27 25 26 28 28	4/19 4/19 4/19 4/19 MSG 4/19	29 31 25 26 32	10/20 10/27 10/20 10/20 10/27 10/27	32 31 26 30 28 30	10/27 11/19 10/20 10/30 10/27	26 27 26 26 28 27	MSG 12/6 12/1 12/1 10/27 11/18 12/6 12/25	21 23 22 24 24 19	12/25 12/25 12/ 1 12/ 1 12/25 12/25	19 12 18 19 20 15	NONE 12/25 NONE 12/25 12/26 12/25 NONE	122° 102° 162° 153°	922 932 932 932	9224 9226 3719 482 9323	1819 821 9711 1911 742	20191 97184 20191 84184 94184 13 19191
NORTHERN EASTERN SHORE 05 CHESTERTOWN MILLINGTON 1 SE	98 96	7/ 5		2/26 2/26		16	3/8 3/8		3/ 8 3/28						10/30 MSG	30	11/ 9 MSG	27	12/ 6 MSG	24	12/25 12/15					922	32	10200
NORTHERN CENTRAL OG ABERDEEN PHILLIPS FLD BALTIMORE HSD CITY BENSON POLICE BARRACKS BOYDS 2 NW CATOCTIN MOUNTAIN PARK CLARKSVILLE 3 NNE CONOMINGO DAM DAMASCUS 2 SW EMMITSBURG 2 SE FREDERICK POLICE BRKS MILLERS 4 NE ROCKVILLE 1 NE TOWSON UNIONVILLE WESTMINSTER POLICE BRK MOODSTOCK	R 104 100 99 105 96 102 94 95 95 97	7/ 5 7/10 7/10 7/10 7/10 7/10 7/10 7/10 7/10	6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2/26 2/26 2/26 2/26 2/26 2/26 2/26 2/26	2/26 3/8 3/7 3/8 3/8 3/8 3/7 3/8 3/7 3/8 2/26 2/26 3/7	12 13 14 14 13 11 11 13 12 16 14 12 10 10	3/8 3/7 3/28 3/8 3/8 3/8 3/8 3/8 3/8 3/8 3/8 3/8 3/	19 13 18 11 19 18 17 14 17 20 20 18	3/ 8 3/ 7 4/13 3/ 8 3/27 4/13 3/ 8 4/13 3/ 8 4/13 3/ 8 4/13 3/ 8 4/13 3/ 8	20 23 21 21 23 19 24 27 20 21	4/13 4/18 4/18 4/14 4/13 4/13 4/13 4/13 4/13 4/13	23 8 8 6 8 7 6 6 3 7 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3/27 4/19 4/19 4/18 4/18 4/18 4/19 4/18 4/19 4/19 4/19 4/19 4/19	31 29 32 28 26 30 31 26 31 28 25	11/18 MSG MSG 10/27 10/27 10/27 10/27 10/27 10/27 10/27 10/27 9/18	29 30 30 30 30 30 30 30 30 30 30 30 30 30	10/27 10/30 10/27 10/27 11/19 11/19 MSG 10/27	27 28 25 25 25 26 25 28	11/ 9 12/25 12/12 12/24 MSG 11/ 9	13 23 24 24 16 23 22 22 23	MSG 12/25 12/25 MSG 12/25 11/19 12/25 12/25 12/25 MSG 11/19	13 10 12 19 16 14 16	12/25 MSG MSG 12/25 12/25 12/25 12/25 MSG 12/25	102° 152° 152° 142° 1630 132° 1628	932 922 932 932 932 932 922 922	9225 9225 9225 9225 9226 9226 9226 9226	561° 561° 722; 132; 101° 371°	73236 05192 91184 99192 97192 91184 20191 10192 20191 197 91152 97159 00184
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				ļ	_ L/	A S .	T SF	PR	ΙNG	Μ	INI	1 U	M 01	F	F	ΙF	ST	FΑ	LL	ΜI	NIM	1UM	1 OF			BER (		
STATION	183		ST		16°01 BELOM		20°01 BELQN		24° 0 BELOW		28°01 BELO		32°01 BELOW		32° OF		28° OF BELOW		24° OF BELOW		20°0 BEL0		16°01 BELON	٦	BELOW SF. SH	BELOW	ВЕГОМ	вегон
	H1GHE	DATE	LOME	DATE	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEIR	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TENP.	DATE	TEMP.	OATE		16°0R			32°0R
APPALACHIAN MOUNTAIN 07 CUMBERLAND 2 FROSTBURG 2 HAGERSTOWN HANCOCK	97 87 100	7/ 9 7/10	) - 2 7	2/27 2/26 2/26	2/26 3/8 3/8	6 10	3/8 3/28 3/9 4/13	17 19	4/12 4/14 3/28 4/13	24 22 23	4/13 4/20 4/13 4/20	28 25	4/18 4/20 4/19	29 28 30	10/20 10/20 10/27	30 29 31	10/26 10/27 11/18 10/27	28 27 28	11/18 11/30 12/12	24 23	11/30 12/ 5 12/25	20 20 13	12/24 12/25 12/25	1531 921 132	0121		0196 0190 9219	185 183 191
ALLEGHENY PLATEAU 08 MC HENRY 2 NH OAKLAND 1 SE SAVAGE RIVER DAM	87 87 89	7/10 7/ 5 7/10	회 - 기	2/26 2/26 2/26	3/27 3/28 3/ 8	14	3/28 4/13 3/28	19	4/19 4/19 4/14	22	4/19 4/19 4/20	22	5/12 5/31 4/20	32	9/18	30	10/27 10/20 10/27	24	10/20	24	11/14	20		152	362	4720 1518 4821	4 184	110
DELAWARE													ļ	!														ļ
NORTHERN 01. NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT F WILMINGTON PORTER RSVR	96 98 95	7/ 5	5 10 5 10 5 10	2/26 2/26 2/26	3/8 2/26 2/26	10	3/28 3/ 8 3/ 7	19	3/28 3/28 3/8	24	4/13 4/13 3/28	28	4/19 4/13 4/13	28	10/27	30	10/30 11/ 9 11/19	28		18	12/25	18	NONE		2	7224 9227 9329	2210	197
SOUTHERN 02 DOVER GEORGETOWN 5 SH GREENWOOD 2 NE LEWES MILFORD 4 SE	99 99 98 97 100	7/ 5 7/ 5 7/ 5 7/ 5	12	2/26 3/ 8 2/26 2/26 2/26	2/26 3/8 3/8 2/26 3/8	12 15 16	3/8 3/8 3/8 3/8	12 15 19	3/28 3/28	22 22 19	4/13 3/28	26 26 26	4 / 19 4 / 19 4 / 8	29 29 32	10/27 10/27 11/19	29 30 30	11/ 9/ 10/30 10/30 12/ 6	27 27 27	12/ 1 12/ 6	23 23 21	12/25 12/25 NONE	19	NONE NONE NONE		3	9227 9224 9225 29 29	8200 3200 2253	191 191 225
							SI	EE RB	EFERENC	NOT	ES FOLL	OWIN	G STATI	ON 1	<b>NDEX</b>													

## MONTHLY AND SEASONAL COOLING DEGREE DAYS BASE=65 DEGREES FAHRENHEIT

STATION	JAN	FEB		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 SALISBURY SALISBURY SNOW HILL 4 N	0 0 - 0 0	0 0 - 0 0	8 10 20 30 24 26	8 4 1 3 6 4 2 3 2 3 9	1 2 - 2 9 3 4 3 5 5 0	1 5 7 2 9 5 6 2 5 5 8 2 5 5 0	3 0 8 4 7 1 4 2 7 4 4 1 4 1 7 4 3 0	406 294 346 325 347	B 139 181 132 149 106 152	5 5 4 4 9 3 7 9 9 8	0 0 1 1 0	0 0 0 0 0 8	- - - 1 4 0 4 B 1 2 7 0 1 3 9 2	1 4 2 3 1 0 6 3 1 2 0 0 1 0 7 4 1 0 5 8
CENTRAL EASTERN SHORE CAMBRIDGE WATER TRMT P DENTON 2 E ROYAL OAK 2 SSW VIENNA	0 -0 0	0 - 0 B 0	1 8 - 1 5 1 4	4 6 - 4 1 8 4 8	5 2 - 3 9 3 8	303 - 276 278	4 7 2 - 4 2 7 4 2 0	365 - 329 306	171 - 153	1 0 5 - 1 0 0 6 8	0 - 0 0	0 - 0 0	1532	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 3 3 5 2 7 - -	4 6 4 3 4 1 -	2 9 3 2 3 6 - -	216 220 229 273	3 4 7 3 6 9 3 7 6 - -	260 257 283 - -	1 0 8 1 0 4 1 2 1 -	7 7 6 5 7 4 -	0 0 0 -	0 1 0 -	1 1 1 6 1 1 2 6 1 1 8 7 -	1071
UPPER SOUTHERN 04 ANNAPOLIS POLICE BRKS BALTIMORE WSO ARPT 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 0 0 0 0 0 0 0 0 0 0 0	- 0 0 0 0 0 0	1 9 2 7 4 7 1 4 1 0 3 5 3 4 2 2	3 8 3 3 4 9 3 1 2 4 4 9 3 8 2 3	3 0 2 6 3 1 5 3 2 3 2 6 4 2 1 7	2 2 1 2 6 1 2 3 1 2 8 1 2 1 4 2 1 4 2 5 4 2 4 5 1 8 8	4 2 2 3 8 7 4 3 8 3 4 9 3 7 4 4 2 5 3 1 7	261 303 274 322 237 263 - 316 215	1 3 7 1 1 7 1 6 4 1 0 6 1 4 0 1 3 5 1 5 4 7 6	- 6 8 6 2 9 3 8 6 3 6 7 8 0 4 2	B 5 0 0 0 0	0 0 0 0 0 0	1 2 7 4 1 1 6 2 1 4 4 7 1 0 1 2 1 1 1 4 - B 1 3 3 4 9 0 0	1 1 3 8 9 1 7 1 2 0 3 1 2 0 9 1 0 0 8 1 2 2 0 1 3 1 1
NORTHERN EASTERN SHORE 05 CHESTERTOWN MILLINGTON 1 SE	0 0	0	1 2 1 6	3 4 3 3	3 3 2 2	2 6 4 2 1 0	387 379	2 8 7 2 8 4	129	7 9 -	0	0	1225	1158
NORTHERN CENTRAL 06 ABERDEEN PHILLIPS FLD BALTIMORE WSO CITY BENSON POLICE BARRACKS BOYDS 2 NW CATOCTIN MOUNTAIN PARK CLARKSVILLE 3 NNE CONOWINGO DAM DAMASCUS 2 SW EMMITSBURG 2 SE FREDERICK POLICE BRKS MILLERS 4 NE ROCKVILLE 1 NE TOWSON UNIONVILLE WESTMINSTER POLICE BRK WOODSTOCK		B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B 16 49 12 36 26 10 13 39 31 226 19 33 13	B 377467747899326163389428843	B 294 867 231 107 193 145 217 450 246 246 231	213 376 204 137 211 299 205 175 292 1518 242 171 224	51806 32145 32175 33877 33877 3290 416 2823 3731 3378	B 3069 2882 246 1568 312 2413 3118 22198 22162 289	217 134 99 54 122 131 1188 158 114 134 134 105 126	B 7 4 5 1 5 1 4 6 8 8 7 2 7 5 6 8 1 5 5 7	- - - 0 0 0 0 0 0	- 0 0 0 0 0 0 0 0	1 8 5 0 - 66 0 - 1 0 4 0 8 5 3 1 3 8 3 1 3 8 3 1 4 8 8 5 7 1 0 4 8 8 5 4 1 1 7 5	1 5 4 5 9 4 4 9 2 8 1 0 6 3 7 5 9 8 4 1 8 9 6
APPALACHIAN MOUNTAIN 07 CUMBERLAND 2 FROSTBURG 2 HAGERSTOWN HANCOCK	- 0 0 0	0 0 0	1 9 8 1 7 9	4 5 1 9 3 2 2 5	2 5 3 1 8 1 6	197 65 206 157	278 126 - 286	2 3 1 7 8 2 3 0 2 0 4	95 28 8 87 80	2 0 4 4 2 1 7	0 0 0	0 0 0	3 3 1 - 7 9 4	902 935 692
			SEE REF	ERENCE N	IOTES FO	LLOWING	STATION	INDEX	l					

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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
ALLEGHENY PLATEAU 08 MC HENRY 2 NH OAKLAND 1 SE SAVAGE RIVER DAM	0 0	0 0	8 4 2	2 7 1 . 1 3	5 3 8	7 0 5 9 9 1	1 2 9 1 0 5 1 5 3	8 7 7 5 1 1 1	2 9 3 5 4 4	7 3 6	0 0	0 0	362 285 428	2 7 6 4 1 7
DELAWARE					ļ		ļ ì			ļ				ļ
NORTHERN 01 NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT WILMINGTON PORTER RSVR	0 0 0	0 0	1 1 1 0 1 5	3 6 3 6 3 6	2 4 2 3 1 8	225 · 227 213	367 395 358	296 304 314	130 127 123	67 66 69	0 0	0 0	1 1 5 6 1 1 8 8 1 1 4 6	1003 1015 901
SOUTHERN '02 DOVER GEORGETOWN 5 SW GREENWOOD 2 NE LEWES MILFORD 4 SE	. 0	0 0 0 0	2 1 7 2 0 3 0 2 9	4 8 3 3 3 4 3 5 4 1	2 4 2 3 1 7 4 6 4 1	2 2 6 2 1 4 2 2 1 2 5 2 2 4 3	4 4 0 3 8 0 4 0 5 4 3 2 4 1 1	3 7 2 3 0 1 2 7 8 3 5 4 3 0 2	174 102 103 162 125	1 0 6 7 8 8 0 1 0 9 9 9	0 0 0 5 1	0 0 0	1 4 1 1 1 1 3 8 1 1 5 8 1 4 2 5 1 2 9 2	1179 1050 946 1101
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			SEE REF	ERENCE	NOTES FO	LLOWING	STATION	INDEX						

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		TOTAL	L EV	APOR.	ATIO	N ANI	IIW C	ND M	OVEM	ENT			MARYLA DE	ND AND LAWARE 1990
STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MARYLAND UPPER SOUTHERN 04 BELTSVILLE	WIND EVAP MAX TEMP MIN TEMP		1 1 2 3		B 1674 B 4.88 69.9 46.1	1165 4.81 77.4 53.4	980 7.03 90.8 62.9	1010 B 7.53 92.8 69.5	836 8 5.56 88.0 67.1	1070 4.60 81.7 58.6	1284 B 3.92 72.4 51.0	-	- - - -	- - M - M -
UPPER MARLBORO 3 NNW	WIND EVAP MAX TEMP MIN TEMP	- - -	- - -	- - -	B 183 B 4.34 70.4 40.3	53 4.42 79.1 54.5	- - -	B 6.08 M 86.2 M 68.6	B 4.47 78.2 66.4	3.69 78.4 57.8	B 3.61 70.0 49.1	337 B 2.51 58.1 39.0	- - -	- M - M -
ALLEGHENY PLATEAU 08 SAVAGE RIVER DAM	WIND EVAP MAX TEMP MIN TEMP	-	- - -	- - -	-	-	- - -	- - -	- - -	- - -	- - -		-	- - -
DELAWARE NORTHERN 01 NEWARK UNIVERSITY FARM	WIND EVAP MAX TEMP MIN TEMP	- - -			1365 - - -	1332 B 5.70 -	944 6.65 -	1014 B 6.38	742 B 5.10	595 B 4.06 -	1123 B 2.98 -	1444 B 2.41 -	<u>.</u>	- - - -
SOUTHERN 02 GEORGETOWN 5 SW	WIND EVAP MAX TEMP MIN TEMP	-	)	- - - -	2477 M 68.4 M 47.6	2494 B 7.60 75.3 54.0	2425 B 9.72 88.9 62.3	2025 B 8.24 92.6 69.2	1497 - 89.0 69.5	B 1430 B 5.75 M - M -	- - - -	- - -	- - -	- - M - M -
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$\top$	ION	INDEX	MARYLAND AND DELAWARE

			STATION	INI	DEX						MARY	LAND AND DELAWARE 1990
STATION	NDEX NO	DIVISION NO.	COUNTY	LATITUDE	TUDE	FEET	YEARS OF RECORD			OPENED OR CLOSED DURING YR		
					LONGI		TEMP.	PRECIF	EVAP.	MONTH	MONTH	NOTES
MARYLAND ABERDEEN PHILLIPS FLD ANNAPOLIS POLICE BRKS ASSATEAGUE IS NATL SEA BALTIMORE WSO ARPT BALTIMORE WSO CITY # BELTSVILLE BENSON POLICE BARRACKS BOYDS 2 NW	0 0 1 5 0 1 9 3 0 3 3 5 R 0 4 6 5 R 0 4 7 0 0 7 0 0 0 7 3 2 1 0 3 2	0 6 0 4 0 0 4 0 0 6 0 0 6	HARFORD ANNE ARUNDEL WORCESTER ANNE ARUNDEL BALTIMORE CI PRINCE GEORG HARFORD MONTGOMERY	3 9 2 8 3 8 5 9 3 8 1 4 3 9 1 1 3 9 1 7 3 9 2 3 9 3 0 3 9 1 3	76 10W 76 30W 75 8W 76 40W 76 37W 76 53W 76 23W 77 20W	5 7 3 0 7 1 4 8 1 2 0 3 6 5 5 8 1	4 4	6 6 3 3 2 4 5 7 1 2 1 5 4 4 4 3 9	0 0 0 0 5 1			C H H J C H H H H H
BRIGHTON DAM CAMBRIDGE WATER TRMT P CATOCTIN MOUNTAIN PARK CHESTERTOWN CLARKSVILLE 3 NNE COLLEGE PARK CONOWINGO DAM CRISFIELD SOMERS COVE CUMBERLAND 2	1750	00000000000000000000000000000000000000	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 3 3 9 1 5 3 8 5 9 3 7 5 9 3 9 3 8	77 1 W 76 4 W 77 29 W 76 4 W 76 56 W 76 56 W 76 10 W 75 52 W 78 45 W	3 3 1 1 0 1 6 1 0 3 9 3 6 5 9 0 3 9 8 7 3 0	25 86 25 105 56 29	4 6 9 7 2 5 8 6 2 5 1 0 5 5 6 2 9	000000000000000000000000000000000000000			H C H H C H
DALECARLIA RESVR DC DAMASCUS 2 SW DENTON 2 E EDGEMONT EMMITSBURG 2 SE FREDERICK POLICE BRKS FREDERICK 3 E FROSTBURG 2 GLENN DALE BELL STN	2 5 2 3 2 7 7 0 2 9 0 6 3 3 4 8	0 4 0 6 0 7 0 6 0 6 0 6 0 7	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 2 4 3 9 2 4 3 9 4 0 3 8 5 8	77 7 W 77 1 4 W 7 7 1 4 W 7 7 3 3 W 7 7 1 8 W 7 7 2 2 W 7 8 5 6 W 7 6 4 8 W	151 722 49 905 420 381 385 2172	4 0 0 3 6 1 9 0	4 6 1 9 4 0 5 3 3 6 1 9 4 2 2 0 7 1	000000000000000000000000000000000000000	000000000000000000000000000000000000000	JUNE	H H H H
HAGERSTOWN HANCOCK LA PLATA 1 W LAUREL 3 W MC HENRY 2 NW MECHANICSVILLE 5 NE MERRILL MILLERS 4 NE MILLINGTON 1 SE	5 1 1 1 5 8 3 2 5 8 6 5 5 8 9 4	0 7 0 7 0 3 0 8 0 8 0 8 0 5	WASHINGTON WASHINGTON CHARLES PRINCE GEORG GARRETT ST MARYS GARRETT CARROLL KENT	3 9 3 9 3 9 4 2 3 8 3 2 3 9 3 5 3 9 3 5 3 9 2 7 3 9 3 6 3 9 4 3 3 9 1 6	7 7 4 4 W 7 8 1 1 W 7 7 0 W 7 6 5 4 W 7 9 2 2 W 7 6 4 1 W 7 9 5 W 7 6 4 8 W 7 5 5 2 W	659 428 140 400 2680 1791 860	5 8 7 7 1 0 1 2 1 3 0 5	5 0 5 8 7 7 1 0 1 2 1. 3 0 4 0 5	000000000000000000000000000000000000000			C H H H H C H
NATIONAL ARBORETUM DC OAKLAND 1 SE OWINGS FERRY LANDING PATUXENT RIVER POTOMAC FILTER PLANT PRINCESS ANNE ROCKVILLE 1 NE ROYAL OAK 2 SSW SALISBURY	7272	0 4 0 8 0 3 0 6 0 1 0 6 0 0 1	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 77 6 11W 76 11W 75 35W	4 9 2 4 2 1 1 6 0 3 8 2 6 9 2 0 4 4 0 1 0	1 6 0 4 3 4 4 4 4	4 5 9 4 7 5 1 6 3 0 4 3 4 4 4 4 8 5	000000000000000000000000000000000000000			H 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	9030	0 1 0 8 0 1 0 6 0 6 0 6 0 6	WICOMICO GARRETT 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	7 5 3 1 W 7 9 8 W 7 5 2 3 W 7 6 3 3 W 7 7 1 1 W 7 6 4 7 W 7 5 5 0 W 7 6 5 8 W	4 8 1 4 9 5 3 0 1 2 3 9 0 4 3 0 9 8 1 0 7 6 5	4 1 7 6 5 4 5 2 3 6 4 3	4 4 4 4 7 6 4 7 9 5 0 3 6 4 3 1 3	0 4 1 0 0 0 0 3 6 0			C H
SEE REFERENCE NOTES FOLLOWING STATION INDEX												

	_		STATION	IN	DEX						MARY	LAND AND DELAWARE 1990
STATION	O Z	ON NO		LATITUDE	TUDE	ELEVATION FEET	YEARS OF RECORD			OPENED OR CLOSED DURING YR		SEE
	INDEX	DIVISIO	COUNTY		LONGITU		TEMP.	PRECIP	EVAP.	MONTH	MONTH	REFERENCE
W O O D S,T O C K D E L A W A R E	9750	0 6	BALTIMORE	39 20	76 52W	459	1 2 2	1 2 2	0			н
DOVER  DOVER  GEORGETOWN 5 SW  GREENWOOD 2 NE  LEWES  MILFORD 4 SE  NEWARK UNIVERSITY FARM WILMINGTON WSO ARPT WILMINGTON PORTER RSVR	2 7 3 0 3 5 7 0 3 5 9 5 5 3 2 0 5 9 1 5 6 4 1 0 9 5 9 5 9 6 0 5	0 2 0 2 0 2 0 2 0 2 0 1 0 1	KENT SUSSEX SUSSEX SUSSEX SUSSEX NEW CASTLE NEW CASTLE NEW CASTLE	3 9 9 3 8 3 8 5 0 3 8 4 6 3 8 5 4 0 3 9 4 6 0 3 9 4 6	7 5 3 1 W 7 5 2 7 W 7 5 3 5 W 7 5 8 W 7 5 2 8 W 7 5 4 4 W 7 5 3 6 W 7 5 3 2 W	4 5 1 5 3 0 9 0 7 9	96 79 44	1 0 3 4 6 7 4 8 9 6 7 9 4 4 8 0	3 8 0 0 0 3 5 0			C C H H H H H
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SEE REFERENCE NOTES FOLLOWING STATION INDEX 14												

### 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 (eg. Z14.6 = M-14.6, Z08.2 = M108.2).

#### SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

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

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

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

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

The graphic displays appearing in this publication were first produced for the 1986 annual. The types of graphs and the information they portray may vary from year to year and from state to state in order to highlight climatic features of state, regional, and historical interest. Some graphs present information for "clusters". A cluster is a group of up to four (4) adjacent divisions that comprise an area of similar climate.

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

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

SUBSCRIPTION, PRICE AND ORDERING INFORMATION AVAILABLE FROM:

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

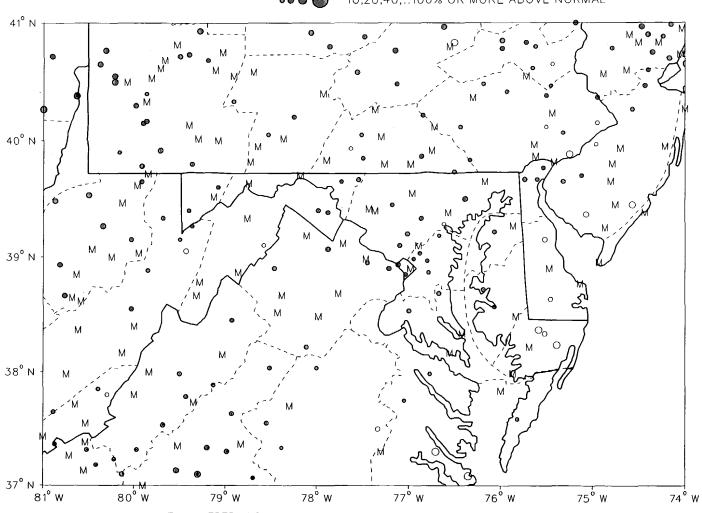
# CUMULATIVE ANNUAL PRECIPITATION DEPARTURE FROM INDIVIDUAL STATION NORMALS (1951–1980) FOR 1990 DELAWARE

M INCOMPLETE DATA FOR THE PERIOD

▼ EXACTLY NORMAL ·

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

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

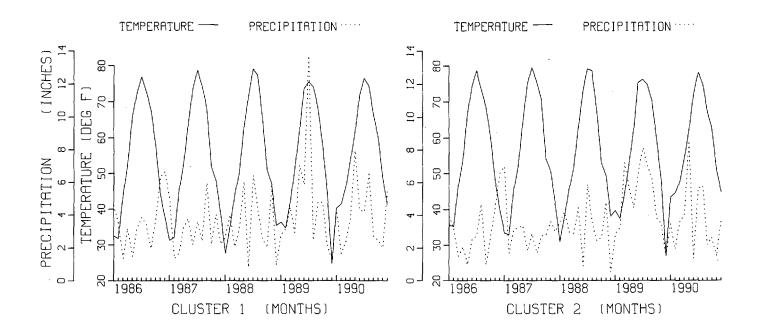


CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

# MONTHLY TEMPERATURE AND PRECIPITATION FOR THE LAST 60 MONTHS ENDING DECEMBER 1990 DELAWARE

CLUSTER 1 -DIVISION(S): NORTHERN 01

CLUSTER 2 -DIVISION(S): SOUTHERN 02

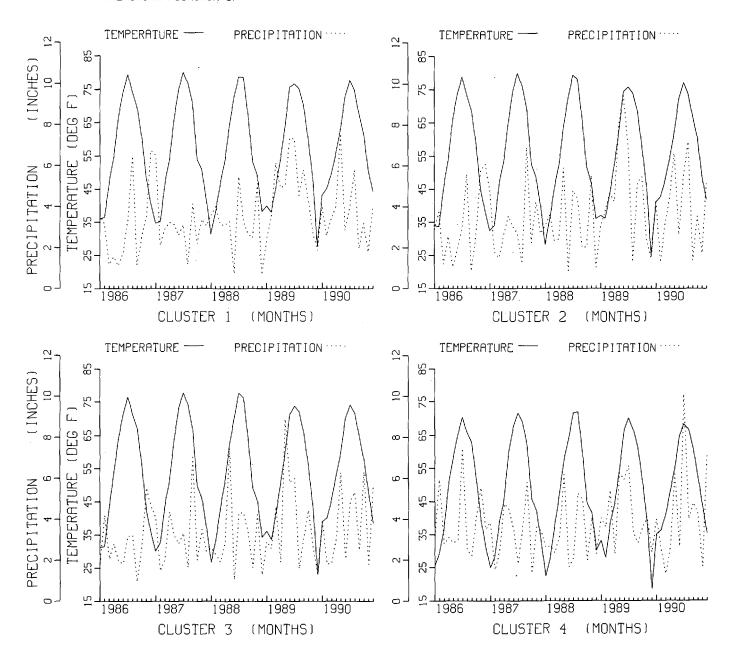


### MONTHLY TEMPERATURE AND PRECIPITATION FOR THE LAST 60 MONTHS ENDING DECEMBER 1990 MARYLAND

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

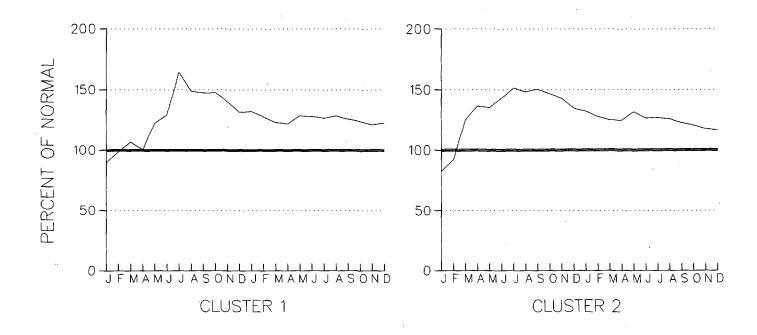
CLUSTER 4 -DIVISION(S): ALLEGHENY PLATEAU 08



# CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951–1980) FOR THE LAST 24 MONTHS ENDING DECEMBER 1990 DELAWARE

CLUSTER 1 - DIVISION(S): NORTHERN 01

CLUSTER 2 -DIVISION(S): SOUTHERN 02

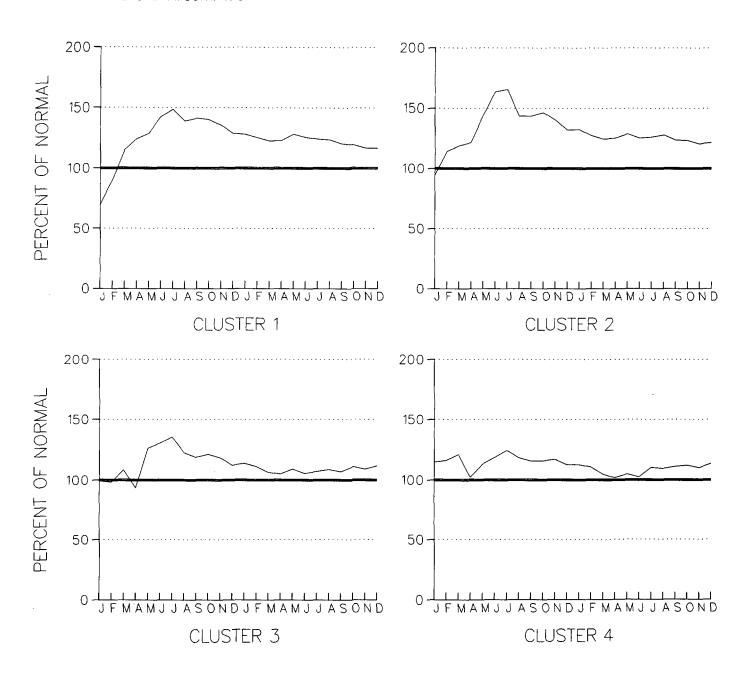


# CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1951–1980) FOR THE LAST 24 MONTHS ENDING DECEMBER 1990 MARYLAND

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

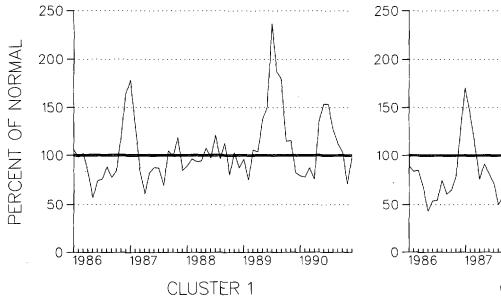
CLUSTER 4 - DIVISION(S): ALLEGHENY PLATEAU 08

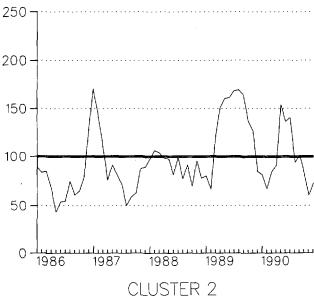


# PRECIPITATION DEPARTURES FROM NORMAL (1951–1980) THREE MONTH RUNNING MEAN FOR THE 60 MONTHS ENDING WITH DECEMBER 1990 DATA DELAWARE

CLUSTER 1 - DIVISION(S): NORTHERN 01

CLUSTER 2 -DIVISION(S): SOUTHERN 02





# TEMPERATURE DEPARTURES FROM NORMAL (1951–1980) THREE MONTH RUNNING MEAN FOR THE 60 MONTHS ENDING WITH DECEMBER 1990 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

1986

1987

1988

CLUSTER 3

1989

1990

1986

1987

1988

CLUSTER 4

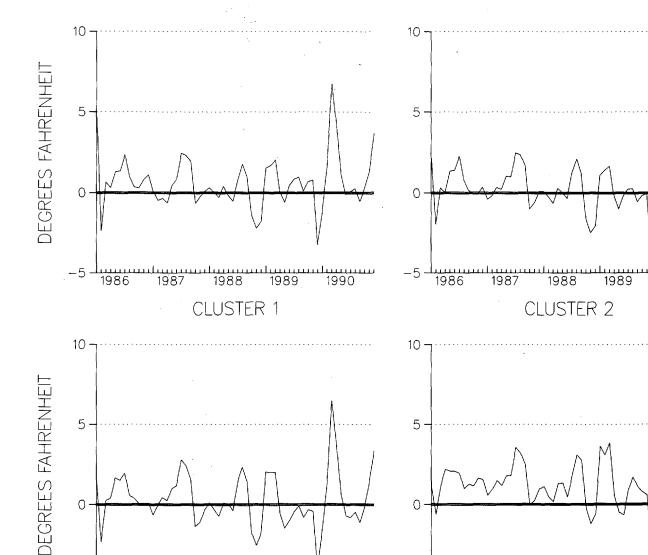
1989

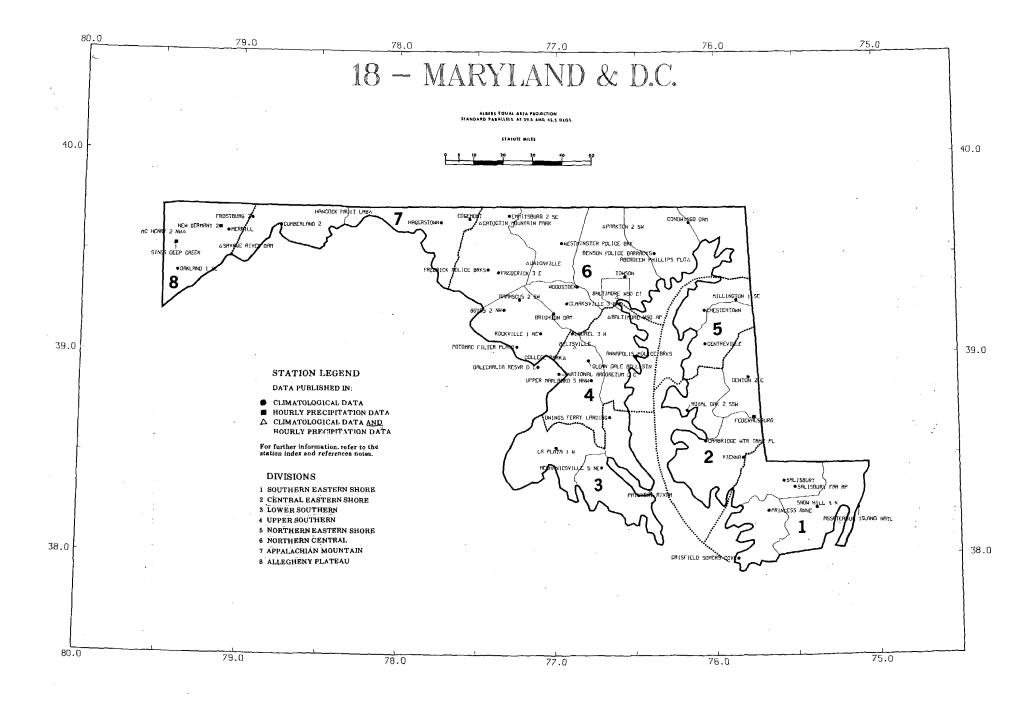
CLUSTER 2 - DIVISION(S): UPPER SOUTHERN 04 NORTHERN EASTERN SHORE 05

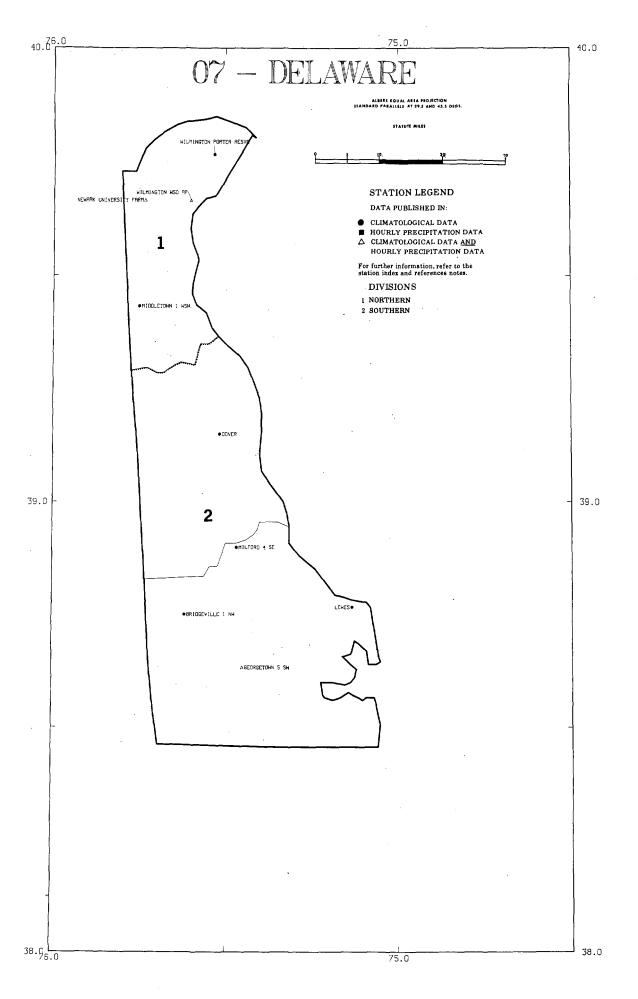
1990

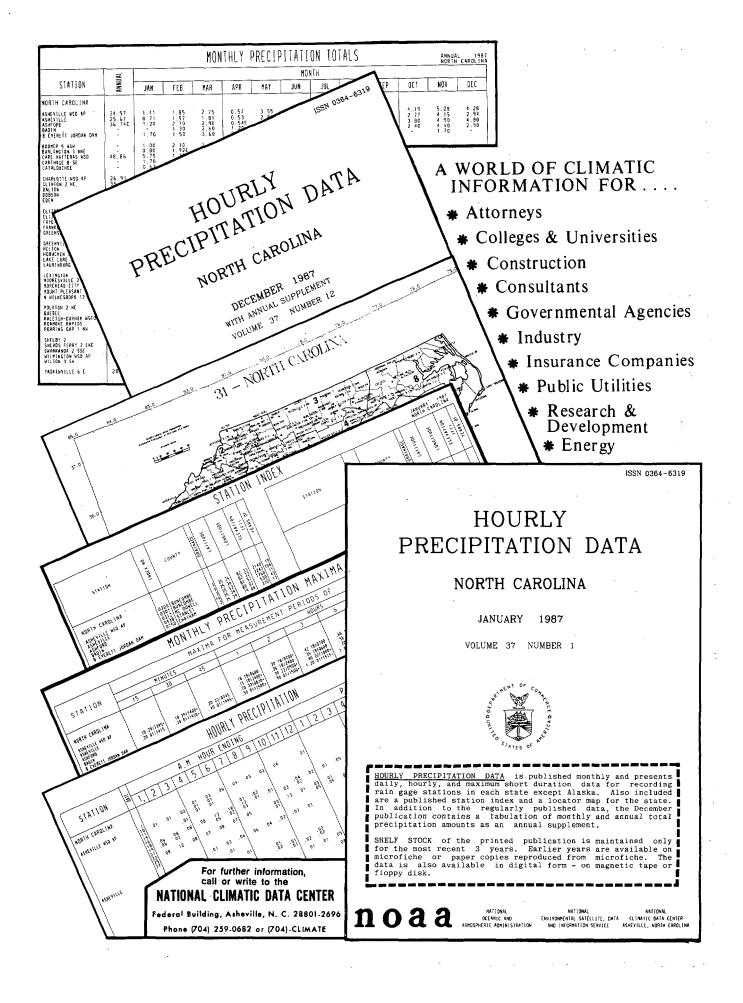
1990

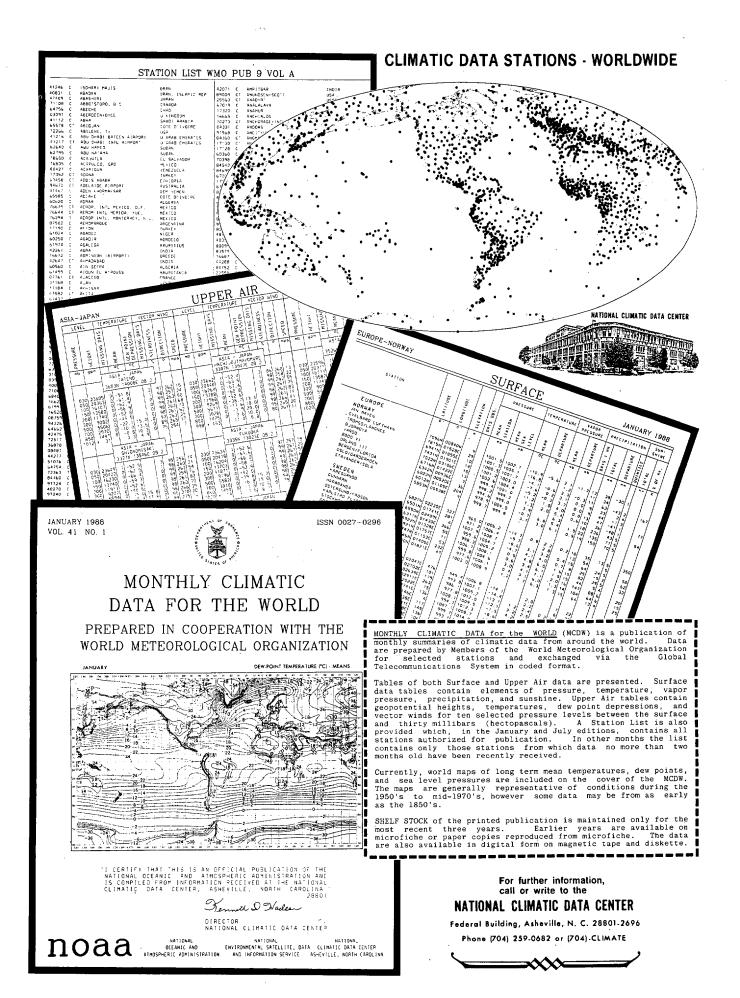
CLUSTER 4 - DIVISION(S): ALLEGHENY PLATEAU 08

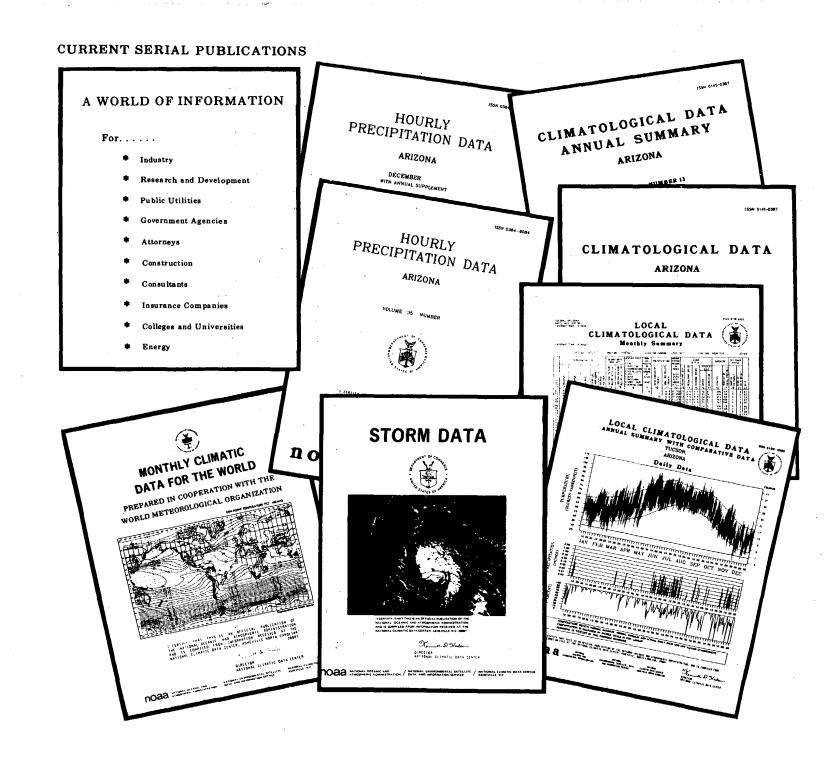












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