



CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

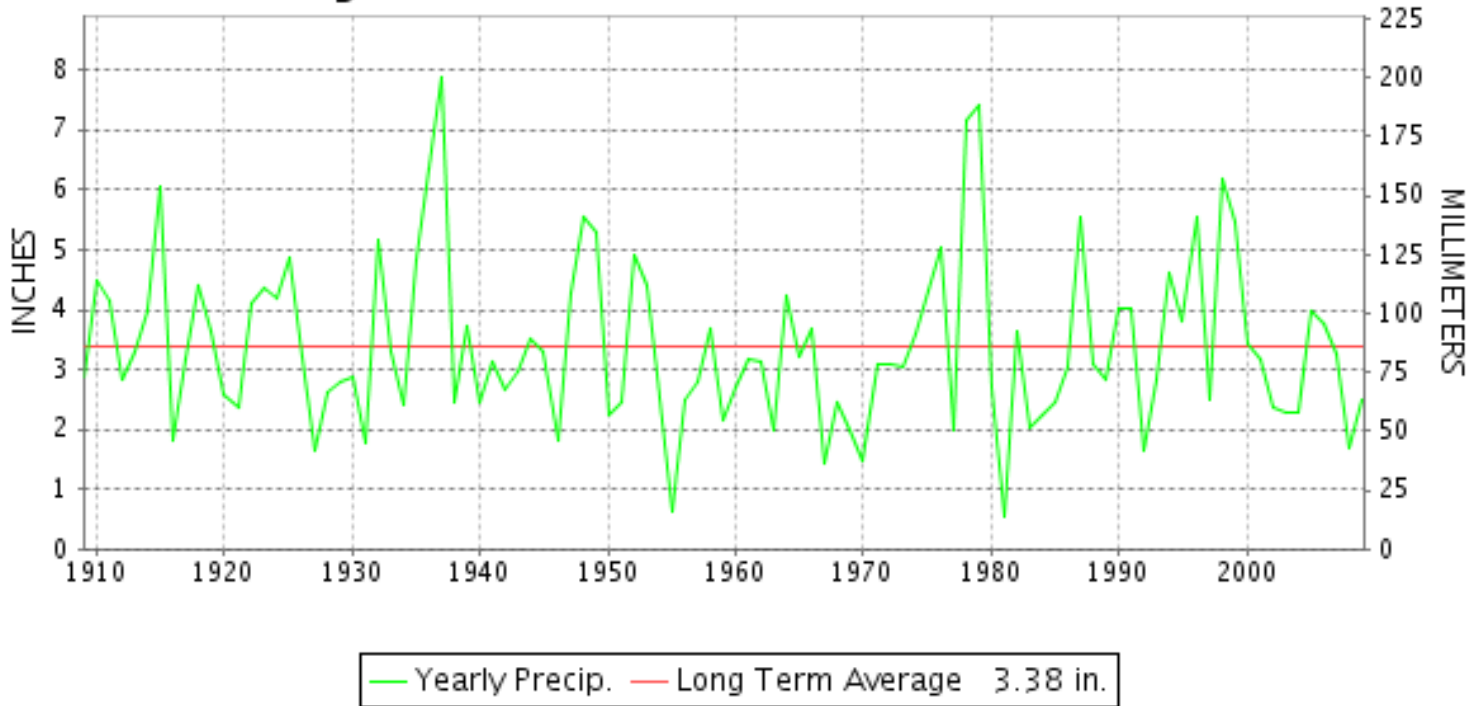


JANUARY 2009

VOLUME 113 NUMBER 01

ISSN 0145-054

JANUARY PRECIPITATION BY YEAR



TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND

HIGHEST TEMPERATURE	63	JANUARY 28	SALISBURY
LOWEST TEMPERATURE	-10	JANUARY 18	SAVAGE RIVER DAM
GREATEST TOTAL PRECIPITATION	3.38		SAVAGE RIVER DAM
LEAST TOTAL PRECIPITATION	1.17		SALISBURY FAA AP
GREATEST 1 DAY PRECIPITATION	1.80	JANUARY 28	EMMITSBURG 2 SE
GREATEST TOTAL SNOWFALL	17.2		FROSTBURG 2
GREATEST DEPTH OF SNOW OR ICE	7	JANUARY 21	FROSTBURG 2

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Asheville, North Carolina

DELAWARE

HIGHEST TEMPERATURE	59	JANUARY 28	LEWES
LOWEST TEMPERATURE	2	JANUARY 17	BEAR 2 SW
GREATEST TOTAL PRECIPITATION	2.90		WILMINGTON NEW CASTLE R
LEAST TOTAL PRECIPITATION	2.09		WILMINGTON PORTER RSVR
GREATEST 1 DAY PRECIPITATION	1.74	JANUARY 7	BEAR 2 SW
GREATEST TOTAL SNOWFALL	2.9		2 STATIONS
GREATEST DEPTH OF SNOW OR ICE	2	JANUARY 28+	2 STATIONS

MONTHLY STATION AND DIVISION SUMMARY

STATION	TEMPERATURE (°F)											PRECIPITATION (IN)												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEG. DAYS	COOLING DEG. DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST 24 HOURS	DATE	ICE PELLETS, SNOW			NO. OF DAYS		
											MAX		MIN						TOTAL	MAX DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
											>=90	<=32	<=32	<=0										
FREDERICK 2 NNE	35.7	19.9	27.8		54	24	4	18+	1147	0	0	11	30	0	M 2.21		.94	6	M 2.0	2	28	4	2	0
MILLERS 4 NE	32.7	18.7	25.7	-4.7	53	23	-2	17	1211	0	0	14	30	1	2.36	-1.28	1.29	7	4.2	2	29	3	2	1
SMITHSBURG 2NW	33.1	16.5	24.8		52	24	-2	18+	1238	0	0	14	31	2	M 2.20		.65	28	M 2.0	0		5	3	0
--DIVISIONAL DATA-----> APPALACHIAN MOUNTAIN 07			26.8	-4.4											2.73	-0.87			4.7					
CUMBERLAND 2	36.9	22.0	29.5	-0.8	61	23	-3	17	1096	0	0	8	30	1	2.68	-0.21	.96	7	M 8.1	2	31	7	2	0
FROSTBURG 2	28.7	13.5	21.1	-3.4	50	24+	-9	17	1352	0	0	19	31	3	3.32	-0.25	.88	7	17.2	7	21	9	2	0
SHARPSBURG 5 S	35.6	17.2	26.4		57	24	-2	18	1190	0	0	11	31	2	2.08		.90	7	4.4	2	28	4	2	0
WILLIAMSPORT	M	M	M		50	3	1	18+			0	4	20	0	2.15		.74	7	M 5.3	2	28	4	2	0
--DIVISIONAL DATA-----> ALLEGHENY PLATEAU 08			25.7	-3.3											2.56	-0.54			10.8					
OAKLAND 1 SE	M	M	M																M	M				
SAVAGE RIVER DAM	29.9	16.0	23.0	-3.2	51	24	-10	18	1296	0	0	22	31	3	3.38	.49	.87	28	M	M		8	3	0
--DIVISIONAL DATA-----> DELAWARE NORTHERN 01			23.0	-2.8											3.38	-0.17								
BEAR 2 SW	35.7	20.4	28.1		54	23	2	17	1138	0	0	11	29	0	2.85		1.74	7	2.9	2	27	4	2	1
WILMINGTON NEW CASTLE R	35.4	21.5	28.5	-3.0	48	23+	5	17	1126	0	0	11	29	0	2.90	-0.53	1.63	7	2.9	2	28	4	2	1
WILMINGTON PORTER RSVR	35.2	20.2	27.7	-2.4	51	24+	4	17	1148	0	0	11	30	0	2.09	-1.38	1.55	7	M .8	T		3	1	1
--DIVISIONAL DATA-----> SOUTHERN 02			28.1	-3.6											2.61	-1.09			2.9					
DOVER	39.2	23.7	31.5	-3.8	57	5	8	17	1033	0	0	6	28	0	2.88	-1.06	1.32	7	1.5	1	28	6	1	1
GREENWOOD 2NE	38.6	21.1	29.9	-3.2	57	29	3	18+	1082	0	0	8	28	0	2.24	-1.68	.65	8	1.0	1	28	5	2	0
LEWES	40.5	26.0	33.3	-3.1	59	28	8	17	977	0	0	5	25	0	2.22	-1.79	.66	7	.0	0		5	2	0
--DIVISIONAL DATA----->			31.6	-3.0											2.45	-1.54			.8					

MARYLAND AND DELAWARE
JANUARY 2009

DAILY PRECIPITATION (INCHES)

STATION	TOTAL	DAY OF MONTH																																
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MARYLAND																																		
SOUTHERN EASTERN SHORE 01																																		
ASSATEAGUE	2.10		.09			.25	.24			.03	.25		.30					.09	.04									.27	.54					
PRINCESS ANNE	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SALISBURY	1.91		.06			.06	.12	.36	.19	.02	.01	.30	.02	.01						.07		.01						.10	.32	.26				
SALISBURY FAA AP	1.17		.03		T	.12	.29	T		.05	.10		T					.01	.02							T	.12	.43						
SNOW HILL 4 N	1.78		.06			.02	.08	.20	.31			.28			.09			T	.08									.09	.35	.22				
CENTRAL EASTERN SHORE 02																																		
ROYAL OAK 2 SSW	2.53		.02				.33	1.07	.29		T	.20														T	.30	.32						
VIENNA	1.76		.04			.02	.28	.73	.16			.15								.03							.10	.25						
LOWER SOUTHERN 03																																		
MECHANICSVILLE 5 NE	2.39	T		T			.06	.65	.79	T		.13															T	.54	.22					
SOLOMONS	M 2.08	*	.04		-		.06	.89	.18			.17															T	.44	.30					
UPPER SOUTHERN 04																																		
BALTIMORE WASH INTL AP R	2.73		T		T	T	.48	1.37			.11	.08			T					.01				T		T	.30	.38						
BELTSVILLE	3.02					.01	.06	1.35	.65			.23								T						T	T	.61	.11					
DALECARLIA RESERVOIR	3.25						.16	1.50	.63			.23																.55	.18					
LAUREL 3 W	3.34						.46	1.70			.43	.23																.20	.32					
MD SCI CTR BALTIMORE R	2.65						.38	1.36			.08	.08								.03								.27	.45					
NATL ARBORETUM DC	3.08	T					.10	1.48	.59	T		.20								T								.02	.53	.16				
OXON HILL	3.06	T					.07	1.05	.94	T		.27																T	.54	.19				
UPPER MARLBORO 3 NNW	3.03					T	.12	1.40	.58			.24																T	.56	.13				
NORTHERN EASTERN SHORE 05																																		
CHESTERTOWN	2.05		T		T		.30	.77			.08	.13			T				T									.13	.64			T		
NORTHERN CENTRAL 06																																		
ABERDEEN PHILLIPS FLD	2.57					T		1.01	.68			.14			T													T	.53	.19				
CATOCTIN MTN PARK	2.80					.02	.74	.34	1.23			.10			.01					.09						T	.25	.02	T					
CONOWINGO DAM	M 2.32							.75	.63			.10									.08							-	.57	.19	-	-		
CYLBURN	2.64						T	1.12	.50			.15			T					.09							T	.03	.59	.16				
EMMITSBURG 2 SE	3.29							.10	1.09			.05																T	1.80	.25				
FREDERICK 2 NNE	M 2.21					.01	.94	.42				.11				.01											-	.05	.63	.03				
MILLERS 4 NE	2.36				T	T	.02	1.29	T		.05	.09				.01			T	.06	T				.01		T	.15	.68			T		
POTOMAC FLTR PLT	2.44							1.42			.03									.04								.52	.43					
SMITHSBURG 2NW	M 2.20							.10	.40			.50				-												.05	.65					
APPALACHIAN MOUNTAIN 07																																		
CUMBERLAND 2	2.68	.02		T		.09	T	.96	.18			.27			T	.10			T	.03	.03						T	.12	.74	.14	T	T		

MARYLAND AND DELAWARE
JANUARY 2009

DAILY PRECIPITATION (INCHES)

STATION	TOTAL	DAY OF MONTH																															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
FROSTBURG 2	3.32	.09		T		.12	T	.88	.36	.02		.40	T		.03	.12	T		.01	.10	.02					T	T	.14	.77	.25	T	.01	
SHARPSBURG 5 S	2.08	T				.01	.90	.34	T		.10					T		T	T	.08	T					T	T	.05	.60				
WILLIAMSPORT	2.15					.02	.74	.45			.06																*	.10	.58				
ALLEGHENY PLATEAU 08																																	
OAKLAND 1 SE	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAVAGE RIVER DAM	3.38	.05			T	.06	.04	.84	.25	T		.63	T		T	.10			T	.17	T	T					T	.14	.87	.23	T	T	
DELAWARE																																	
NORTHERN 01																																	
BEAR 2 SW	2.85		T			T	.26	1.74	T	T	.05	.08			T		T	.01	.01									.18	.52				
WILMINGTON NEW CASTLE R	2.90		T		T	T	.24	1.63			.05	.08			T		T	.01	.01								.18	.70		T			
WILMINGTON PORTER RSVR	2.09						.16	1.55			.01						T	T	.05							.05	.06	.21					
SOUTHERN 02																																	
DOVER	2.88		T			.02	.13	1.32	.18			.30								T								.09	.40	.44			
GREENWOOD 2NE	2.24			.02		T	.02	.47	.65			.22								.01	.02						T	.54	.29				
LEWES	2.22		.04			.02	.35	.66	.25											.27							.08	.55					

DAILY TEMPERATURES (°F)

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE		
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
NATL ARBORETUM DC	07	MAX OBS	47	34	44	46	46	51	36	43	42	39	40	41	40	40	31	28	19	36	38	35	30	33	44	55	43	34	31	32	44	42	42	38.9		
		MIN	24	23	27	25	26	35	33	34	29	30	33	27	26	23	23	12	7	8	22	20	20	17	21	24	17	24	26	28	29	23	24	23.9		
OXON HILL	08	MAX	48	34	44	47	46	50	35	42	42	39	42	41	40	39	29	27	19	30	38	37	30	34	43	56	45	33	31	30	42	40	42	38.5		
		MIN	23	23	31	26	26	34	32	34	27	26	31	25	29	22	22	10	7	7	22	19	18	16	17	23	15	15	24	27	27	22	23	22.7		
UPPER MARLBORO 3 NNW	08	MAX	47	36	46	47	49	50	34	40	42	39	40	40	40	30	27	19	31	36	35	30	34	45	56	42	35	32	30	42	43	42	38.7			
		MIN	22	20	29	22	22	33	31	33	26	26	31	22	24	22	18	10	1	0	17	18	17	11	11	18	14	13	24	27	25	18	17	20.1		
NORTHERN EASTERN SHORE 05																																				
CHESTERTOWN	23	MAX	31	40	41	43	47	40	41	41	39	40	35	37	39	36	26	18	21	36	31	28	28	39	52	46	35	29	29	37	34	38	30	35.7		
		MIN	22	23	27	23	35	31	32	31	29	29	28	24	25	20	17	11	5	22	19	17	17	15	20	24	15	20	28	28	27	17	19	22.6		
NORTHERN CENTRAL 06																																				
ABERDEEN PHILLIPS FLD	07	MAX	47	35	38	42	41	50	39	40	42	36	35	36	40	42	29	25	20	28	36	30	31	30	42	51	40	30	31	30	43	39	41	36.7		
		MIN	21	21	31	22	23	37	33	35	25	26	29	25	25	21	21	11	3	3	23	17	17	16	17	20	15	15	24	28	23	19	19	21.5		
CATOCTIN MTN PARK	17	MAX	30	40	41	36	42	33	34	35	29	28	35	30	35	34	22	11	15	29	29	25	25	40	50	44	28	26	25	36	38	34	26	31.8		
		OBS								46						34																				
		MIN	15	18	24	24	30	28	29	25	18	22	25	18	22	9	10	0	-1	13	20	10	8	17	29	14	11	16	21	20	18	23	9	17.6		
CONOWINGO DAM	07	MAX	47	35	35	42	42	47	39	42	42	37	36	34	36	34	32	26	21	29	32	32	32	30	45	50	40	31	31	32	42	40	42	36.6		
		OBS															40																			
		MIN	20	16	28	18	21	32	25	26	24	26	28	22	22	18	18	7	0	2	18	12	12	14	12	21	14	14	24	27	19	19	14	18.5		
		OBS					35																			38			22							
CYLBURN	20	MAX	31	39	39	42	48	35	38	38	33	35	35	36	38	25	24	24	24	34	29	26	28	41	50	50	32	29	29	39	35	38	30	34.6		
		OBS	44	31	39	39	42		34	38	38	33	35	35	36	38	25	24	24	24	34	29	26	28	41	50	50	32	29	29	39	35	38			
		MIN	20	26	28	23	35	33	29	27	24	25	25	24	25	17	18	9	3	24	21	15	14	15	22	20	15	21	21	25	22	20	18	21.4		
EMMITSBURG 2 SE	07	MAX	40	32	41	40	39	46	35	38	38	33	36	34	35	38	24	23	16	27	35	29	28	30	43	54	36	32	28	30	40	36	37	34.6		
		MIN	21	22	26	19	21	33	31	32	24	24	28	24	20	18	16	8	1	2	23	12	9	13	19	19	15	15	21	23	24	21	16	19.4		
FREDERICK 2 NNE	07	MAX	44	33	45	41	47	45	41	37	35	41	38	37	36	40	25	23	15	28	36	30	28	30	44	54	31	29	29	30	39	36	39	35.7		
		OBS						34																												***
		MIN	22	20	27	22	34	31	32	24	23	23	28	25	20	17	17	9	4	4	22	10	11	17	19	21	15	13	21	24	25	20	18	19.9		
		OBS									32																									
MILLERS 4 NE	18	MAX	30	39	38	39	44	37	33	35	31	30	33	33	36	34	21	14	17	30	28	26	27	40	53	46	29	26	25	39	39	35	27	32.7		
		MIN	17	19	24	20	35	27	28	29	22	22	27	20	22	14	14	5	-2	13	18	10	11	14	22	23	10	17	21	23	21	19	14	18.7		
SMITHSBURG 2NW	08	MAX	38	32	42	37	38	42	43	36	32	34	34	32	32	37	24	18	11	26	33	28	25	36	42	52	32	29	27	30	37	33	33	33.1		
		OBS						31																												
		MIN	20	18	24	18	19	27	29	31	21	24	26	19	23	14	13	2	-2	-2	20	2	3	10	19	20	8	11	20	21	21	20	14	16.5		
		OBS						43																												
APPALACHIAN MOUNTAIN 07																																				
CUMBERLAND 2	18	MAX	33	49	49	40	43	38	43	39	36	33	37	35	38	34	23	15	21	33	33	29	31	50	61	57	32	31	30	39	41	35	35	36.9		
		MIN	19	23	28	25	35	31	32	29	24	29	30	25	22	16	14	3	-3	20	25	11	16	23	26	25	14	22	23	25	26	28	15	22.0		
FROSTBURG 2	07	MAX	33	35	38	37	50	34	30	35	24	25	36	25	26	35	22	11	3	17	32	24	18	21	37	50	25	24	24	27	37	29	26	28.7		

MARYLAND AND DELAWARE
JANUARY 2009

DAILY TEMPERATURES (°F)

STATION	OB. TIME	MAX/MIN	DAY OF MONTH																															AVERAGE		
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
SHARPSBURG 5 S	07	MIN	12	11	24	22	27	26	24	22	16	16	23	18	17	7	7	-8	-9	-8	15	8	7	7	21	25	7	6	15	18	18	18	6	13.5		
		MAX	43	33	48	42	41	47	32	39	38	36	35	35	36	40	26	22	16	28	36	29	27	30	44	57	36	32	29	30	41	38	38	35.6		
WILLIAMSPORT	06	MIN	21	18	22	20	22	32	31	29	18	18	29	20	22	17	15	7	-1	-2	22	5	5	7	10	19	11	10	22	25	23	18	17	17.2		
		MAX	43		50	44	38	45	34	41	37	36	33	36	36	40	25	22	24	34										27	35	40	38		M	
ALLEGHENY PLATEAU 08					29	21	21	33	31	32	25	25	28	23	20	19	17	8	1	1																M
OAKLAND 1 SE	07	MAX																																	M	
SAVAGE RIVER DAM	08	MIN																																	M	
		MAX	27	35	42	40	38	38	32	32	29	28	36	28	30	37	26	14	7	18	32	26	21	25	39	51	28	28	28	30	23	30	28	29.9		
		OBS									21																									
		MIN	16	15	28	24	28	28	27	21	21	21	26	22	17	12	11	-1	-9	-10	18	2	4	12	24	24	10	10	19	21	23	22	11	16.0		
DELAWARE NORTHERN 01																																				
BEAR 2 SW M	MID	MAX	30	38	40	44	47	40	41	42	35	37	35	36	40	36	26	18	22	38	31	28	29	41	54	44	30	31	29	41	34	40	29	35.7		
		MIN	14	20	23	18	36	32	33	29	23	28	22	21	18	20	15	7	2	22	19	17	16	18	19	23	12	22	26	25	18	16	19	20.4		
WILMINGTON NEW CASTLE M	MID	MAX	30	38	40	43	48	39	41	41	36	36	35	36	40	35	27	19	24	36	31	30	29	42	48	44	30	29	30	42	33	38	28	35.4		
		MIN	19	25	26	22	36	32	33	29	25	29	23	22	23	19	15	7	5	24	19	15	16	20	20	20	14	21	26	25	21	18	19	21.5		
WILMINGTON PORTER RSVRM	MID	MAX	27	36	36	42	41	45	45	45	33	33	33	38	37	34	24	16	22	37	31	31	31	42	51	51	31	31	30	37	34	38	29	35.2		
		OBS																																		
		MIN	16	22	22	22	34	22	22	22	25	27	23	22	22	18	14	8	4	22	22	15	15	21	26	22	16	22	23	23	21	16	18	20.2		
		OBS																																		
SOUTHERN 02																																				
DOVER	16	MAX	36	39	42	45	57	46	45	44	40	42	48	38	40	40	29	24	24	39	36	32	30	43	53	53	37	33	30	36	37	39	38	39.2		
		OBS	46				57																													
		MIN	22	22	29	26	37	33	37	32	22	31	28	25	23	21	21	11	8	24	22	19	18	17	20	25	17	23	26	25	24	23	23	23.7		
GREENWOOD 2NE	07	MAX	47	31	38	50	45	47	39	49	45	36	52	41	37	40	28	28	19	30	38	33	29	28	42	52	44	33	30	33	57	35	40	38.6		
		MIN	23	19	28	22	22	35	34	33	26	25	31	24	23	23	22	10	3	3	24	18	18	12	12	21	14	14	24	26	26	20	20	21.1		
LEWES	17	MAX	35	39	42	44	48	44	51	46	38	51	51	37	42	39	34	24	24	39	38	33	29	44	53	50	35	30	30	59	46	44	35	40.5		
		OBS																																		
		MIN	23	20	31	28	39	35	38	37	27	28	36	27	25	23	24	14	8	19	24	24	20	17	26	35	21	26	27	28	28	24	23	26.0		

SNOWFALL AND SNOW ON GROUND (INCHES)

STATION		DAY OF MONTH																														
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MARYLAND																																
SOUTHERN EASTERN																																
SHORE 01																																
ASSATEAGUE	SNOWFALL SN ON GND																														1.0	
SALISBURY FAA AP	SNOWFALL SN ON GND																															
SNOW HILL 4 N	SNOWFALL SN ON GND																															
CENTRAL EASTERN																																
SHORE 02																																
ROYAL OAK 2 SSW	SNOWFALL SN ON GND																															
LOWER SOUTHERN 03																																
MECHANICSVILLE 5 NE	SNOWFALL SN ON GND																															
SOLOMONS	SNOWFALL SN ON GND																															
UPPER SOUTHERN 04																																
BALTIMORE WASH INTL AP R	SNOWFALL SN ON GND WTR EQUIV																															
BELTSVILLE	SNOWFALL SN ON GND																															
DALECARLIA RESERVOIR	SNOWFALL SN ON GND																															
LAUREL 3 W	SNOWFALL SN ON GND																															
NATL ARBORETUM DC	SNOWFALL																															

Snowfall: Includes snow and ice. Values for NWS stations (J index note) are Mid-Mid (LST).

Snow on ground: Includes snow, sleet, ice, and hail. Values for NWS stations (J index note) are observed at 12 UTC (GMT).

Water Equivalent: Given for NWS stations (J index note) only, when snow depth is 2 inches or more, and is measured at 18 UTC (GMT)

SNOWFALL AND SNOW ON GROUND (INCHES)

STATION		DAY OF MONTH																																							
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31									
BEAR 2 SW	SNOWFALL		T				T		T	T	.1					T		T	.1	.2														1.9	.6						
	SN ON GND																		T	T																					
WILMINGTON NEW CASTLE R	SNOWFALL		T								.1					T		T	.1	.2																					
	SN ON GND																																								
	WTR EQUIV																				T	T																			
WILMINGTON PORTER RSVR	SNOWFALL										T								-	-																					
	SN ON GND										T																														
SOUTHERN 02																																									
DOVER	SNOWFALL																																								
	SN ON GND																																								
GREENWOOD 2NE	SNOWFALL				T																																				
	SN ON GND				T																																				

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STATION INDEX

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER	
							LOCAL STD TIME					
							TEMP	PRECIP	EVAP	SPECIAL SEE (NOTES)		
MARYLAND												
ABERDEEN PHILLIPS FLD	0015	06	HARFORD	39 28	76 10W	57	07	07			C H	US ARMY ABERDEEN TST CTR
ASSATEAGUE	0335	01	WORCESTER	38 4	75 13W	10	MID	MID			H	ASSATEAGUE IS NATL SEA
BALTIMORE WASH INTL AP R	0465	04	ANNE ARUNDEL	39 10	76 41W	156	MID	MID			C HJ	ASOS - FAA
BELTSVILLE	0700	04	PRINCE GEORG	39 2	76 56W	145	08	08	08		C H	USDA AGRICULT RES SVC
CATOCTIN MTN PARK	1530	06	FREDERICK	39 39	77 29W	1610	17	17			H	CATOCTIN MOUNTAIN PK
CHESTERTOWN	1750	05	KENT	39 13	76 3W	40	23	23			H	THOMAS W ELIASON JR
CONOWINGO DAM	2060	06	HARFORD	39 39	76 11W	40	07	07			H	SUSQUEHANNA ELECTRIC CO
CUMBERLAND 2	2282	07	ALLEGANY	39 39	78 45W	730	18	18			H	TIMOTHY B THOMAS
CYLBURN	2308	06	BALTIMORE	39 22	76 38W	400	20	20			H	CYLBURN ARBORETUM
DALECARLIA RESERVOIR	2325	04	PRINCE GEORG	38 56	77 7W	150	08	08			H	USA CORPS OF ENGINEERS
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 17W	403	07	07			H	ERIC E GLASS
FREDERICK 2 NNE	3353	06	FREDERICK	39 26	77 24W	280	07	07			H	DIR PUBLIC WORK WTP
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2170	07	07			H	GREGORY P LATTA
LAUREL 3 W	5111	04	PRINCE GEORG	39 5	76 54W	400	MID	MID			H	WA SUBURBAN SANITARY COM
MD SCI CTR BALTIMORE R	5718	04	BALTIMORE (C	39 17	76 37W	20	MID	MID			C H	ASOS - NWS
MECHANICSVILLE 5 NE	5865	03	ST. MARY'S	38 28	76 42W	100	07	07			H	SANDRA J HASTINGS
MILLERS 4 NE	5934	06	CARROLL	39 43	76 48W	860	18	18			C H	ROBERT MILLER
NATL ARBORETUM DC	6350	04	PRINCE GEORG	38 55	76 58W	50	07	07			H	US NATIONAL ARBORETUM
OAKLAND 1 SE	6620	08	GARRETT	39 25	79 24W	2420	07	07			H	GARRETT CO MEM HOSPITAL
OXON HILL	6800	04	PRINCE GEORG	38 48	77 0W	120	08	08			H	BRIAN SMITH
POTOMAC FLTR PLT	7272	06	MONTGOMERY	39 2	77 15W	270		08			H	POTOMAC WATER FILT PLANT
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	17	17			H	UNIV OF MD EAST SHORE
ROYAL OAK 2 SSW	7806	02	TALBOT	38 43	76 11W	10	18	18			H	JOHN L SWAINE JR
SALISBURY	8000	01	WICOMICO	38 22	75 35W	10	17	17			H	CITY OF SALISBURY
SALISBURY FAA AP	8005	01	WICOMICO	38 20	75 31W	48	MID	MID			H	FAA
SAVAGE RIVER DAM	8065	08	GARRETT	39 31	79 8W	1495	08	08	08		C H	USA CORPS OF ENGINEERS
SHARPSBURG 5 S	8207	07	WASHINGTON	39 24	77 43W	500	07	07			H	DAVID DOWNIN
SMITHSBURG 2NW	8371	06	WASHINGTON	39 40	77 35W	670	08	08			H	SMITHSBURG WWTP
SNOW HILL 4 N	8380	01	WORCESTER	38 14	75 23W	30	17	17			H	CURTIS E SHOCKLEY
SOLOMONS	8405	03	CALVERT	38 19	76 27W	12	08	08			H	CHESAPEAKE BIOLOGIC LAB
UPPER MARLBORO 3 NNW	9070	04	PRINCE GEORG	38 52	76 47W	100	08	08	08		H	UNIVERSITY OF MARYLAND
VIENNA	9140	02	DORCHESTER	38 29	75 49W	10	18	18			H	DELMARVA POWER AND LIGHT
WILLIAMSPORT	9570	07	WASHINGTON	39 36	77 50W	360	06	06			H	R C WILSON TREATMENT PLT
DELAWARE												
BEAR 2 SW	1200	01	NEW CASTLE	39 36	75 44W	80	MID	MID			H	R GARY GALLAHER
DOVER	2730	02	KENT	39 16	75 31W	30	16	16			H	DEPT OF TRANSPORTATION
GREENWOOD 2NE	3595	02	SUSSEX	38 49	75 35W	45	07	07			H	DANIEL M SWARTZENTRUBER
LEWES	5320	02	SUSSEX	38 47	75 8W	15	17	17			H	BOARD OF PUBLIC WORKS
WILMINGTON NEW CASTLE R	9595	01	NEW CASTLE	39 40	75 36W	79	MID	MID			C HJ	ASOS - FAA
WILMINGTON PORTER RSVR	9605	01	NEW CASTLE	39 46	75 32W	270	MID	MID			H	WILMINGTON WATER DEPT

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 2002, the averaging period is 1971 to 2000. The normals for National Weather Service localities have been adjusted so as to be representative for the current observation site.

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.

PRECIPITATION: Values shown in hundredths of inches are water equivalent totals, i.e., total of liquid and melted frozen precipitation. In the "Monthly Summarized Data" table the total snow and sleet values shown in tenths of inches are unmelted amounts. The max depth on ground values of snow and sleet shown in whole inches are cumulative unmelted amounts. The number of days with .10, .50, 1.00 or more refers to water equivalents.

PRECIPITATION QUALITY CONTROL: The NCDC quality control process may delete precipitation data that are spatially inconsistent; exceed climatological limits, or are inconsistent with prevailing weather patterns.

TEMPERATURE: Original and edited temperature values are given in the "Daily Temperature" table. Edited values are produced when an original value is missing or when surrounding stations indicated a suspect original value. When a line labeled OBS is present and contains either a daily temperature (suspect) or *** (missing), the temperature appearing directly above, on the line labeled MAX or MIN, is an edited value. Summary temperature information (averages, departures, extremes, monthly degree day totals) is based on the values labeled MAX/MIN.

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 STATION INDEX TABLE

Thermometers located in a rooftop shelter.
// Rain gage equipped with a windshield
AR Observation made "after rain" has occurred.
C Station is equipped with 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 the "Soil Temperatures" table.
H Observations appear in the "Snowfall and Snow on the Ground" table.
J Station also published as a Local Climatological Data publication.
MID Observation time is midnight.
MO Rain gage read once monthly, usually the last day.
OC Rain gage readings vary from a few weeks to several months.
R Amounts from recording rain gage.
SR Observation time near sunrise.

SS Observation time near sunset.
VAR Observation time varies.
WI Rain gage read weekly or irregularly.
WM Rain gage read weekly and last day of the month.

SYMBOLS AND LETTERS USED IN THE DATA TABLES

(DAILY DATA ARE FOR THE 24 HOURS IMMEDIATELY PRECEDING OBSERVATION TIME.)

BLANK Entries in the "Monthly Summarized Data" table indicate no record.

BLANK Entries in the "Daily Precipitation" and "Snowfall and Snow on the Ground" tables indicate zero.

BLANK Entries in the "Daily Temperature" table indicate a missing record where an edited value could not be determined. (See *** below)

- No record. Data not recorded, determined unreliable by quality control check, or not received in time for publication.

+ Precipitation or temperature extremes occurred on one or more previous dates during the month.

*** Missing original temperature which has been estimated during edit.

* Rain gage not read. Precipitation is included in the amount following the asterisks. Time distribution not known. A * preceding the monthly total indicates precipitation amount is being carried forward to next months total, and may include amounts from the previous month(s).
// 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 earlier bulletin to determine date of last reading. (Hawaii stations)

B Adjusted monthly value (estimated), (1-7 missing values for wind and evaporation).

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, (8 or more for wind and evaporation).

R Amounts from recording rain gage.

T Trace. An amount too small to measure.

V Includes total for previous month(s). (See * above)

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

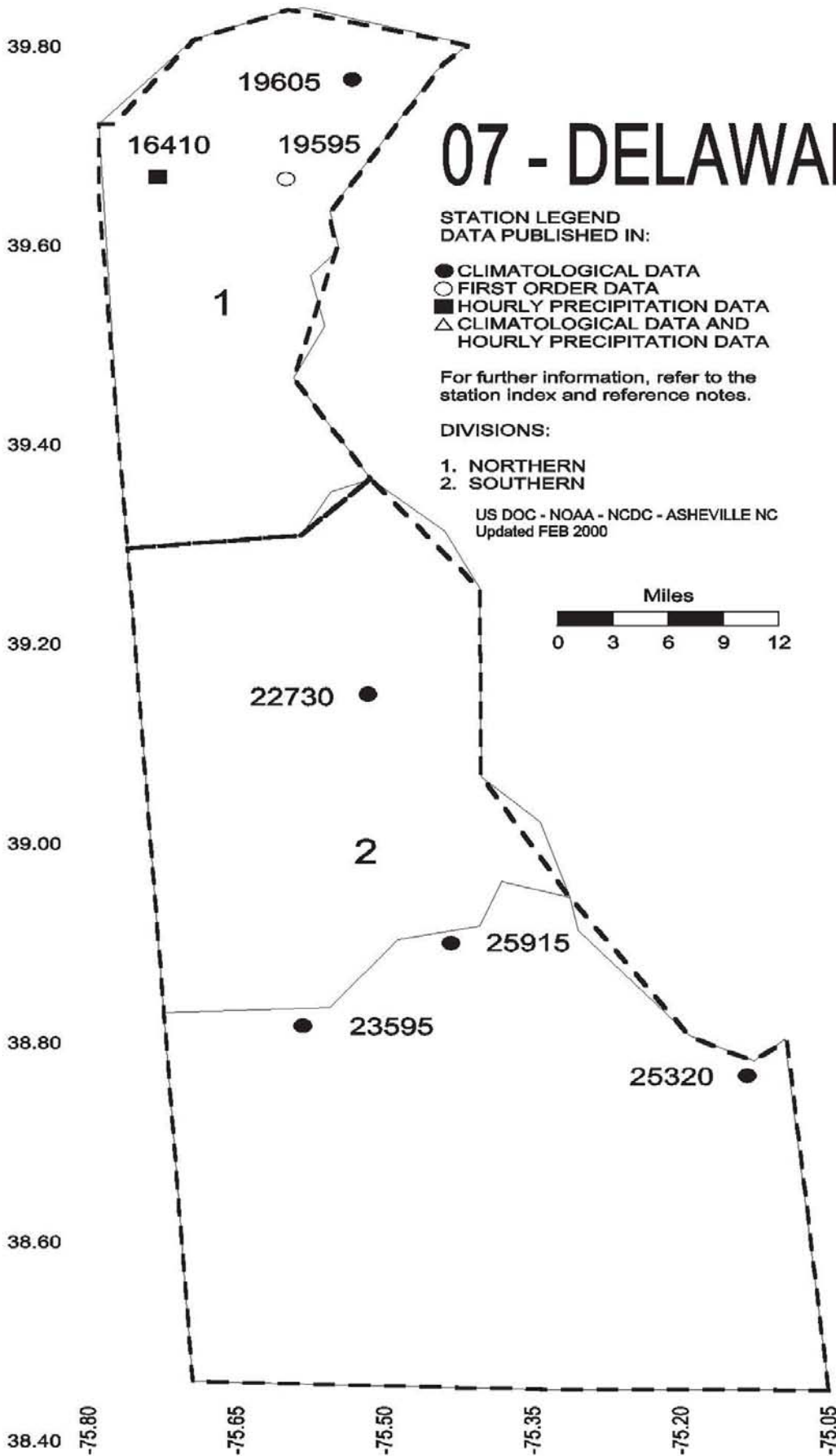
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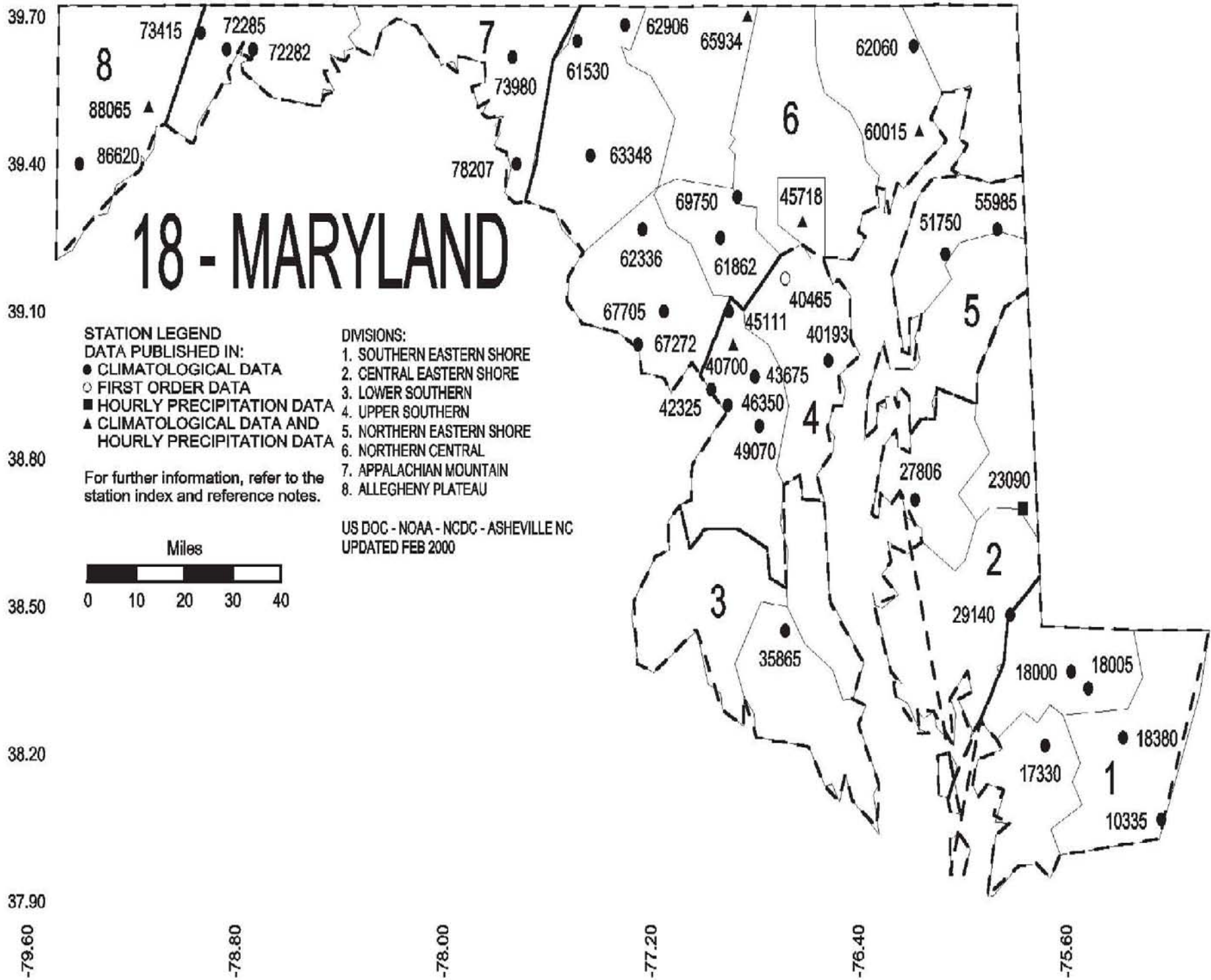
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Hourly Precipitation Data

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 hundredths 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 publications summarize 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 3 hourly weather observations for that month and a hourly summary of precipitation. Annual LCD publications contain a summary of the past calendar year as well as historical averages and extremes.

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