

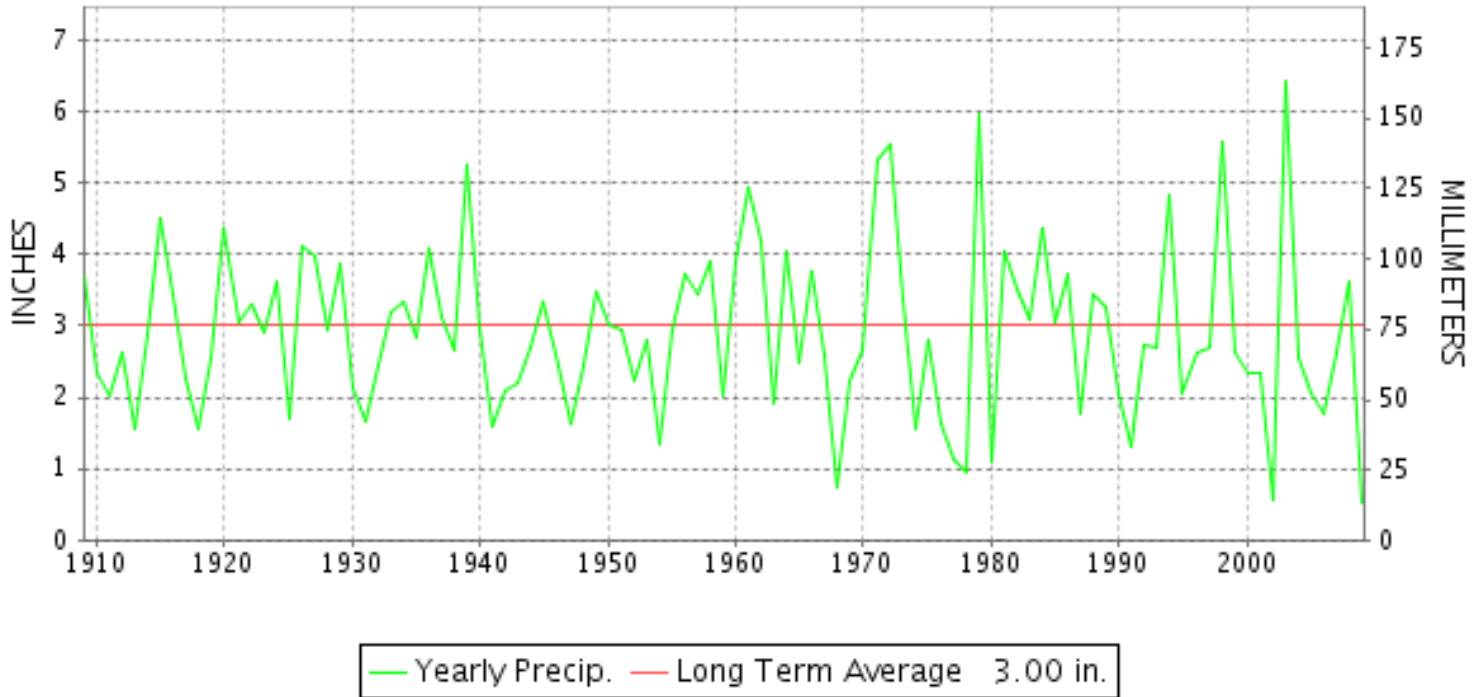


# CLIMATOLOGICAL DATA MARYLAND AND DELAWARE



**FEBRUARY 2009**  
VOLUME 113 NUMBER 02  
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## FEBRUARY PRECIPITATION BY YEAR



### TEMPERATURE AND PRECIPITATION EXTREMES

#### MARYLAND

HIGHEST TEMPERATURE	73	FEBRUARY 12	MECHANICSVILLE 5 NE
LOWEST TEMPERATURE	-2	FEBRUARY 5	OAKLAND 1 SE
GREATEST TOTAL PRECIPITATION	1.34		FROSTBURG 2
LEAST TOTAL PRECIPITATION	.17		DALECARLIA RESERVOIR
GREATEST 1 DAY PRECIPITATION	.49	FEBRUARY 19	FROSTBURG 2
GREATEST TOTAL SNOWFALL	5.1		FROSTBURG 2
GREATEST DEPTH OF SNOW OR ICE	3	FEBRUARY 6+	2 STATIONS

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**DELAWARE**

HIGHEST TEMPERATURE	71	FEBRUARY 11	LEWES
LOWEST TEMPERATURE	11	FEBRUARY 6+	2 STATIONS
GREATEST TOTAL PRECIPITATION	.94		WILMINGTON PORTER RSVR
LEAST TOTAL PRECIPITATION	.30		2 STATIONS
GREATEST 1 DAY PRECIPITATION	.71	FEBRUARY 18	LEWES
GREATEST TOTAL SNOWFALL	1.5		2 STATIONS
GREATEST DEPTH OF SNOW OR ICE	1	FEBRUARY 28+	3 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	46.4	25.5	36.0		68	12	12	6+	807	0	0	2	25	0	.45		.17	19	.0	0		2	0	0
MILLERS 4 NE	44.5	26.1	35.3	1.9	64	11	8	5	824	0	0	4	21	0	.75	-2.15	.17	18	4.6	1	5	2	0	0
SMITHSBURG 2NW	43.0	21.6	32.3		65	12	9	6+	910	0	0	5	25	0	.52		.14	18	.0	0		3	0	0
--DIVISIONAL DATA-----> APPALACHIAN MOUNTAIN 07			34.8	.8											.47	-2.45			1.0					
CUMBERLAND 2	47.8	24.4	36.1	2.2	72	12	10	6+	803	0	0	3	24	0	.94	-1.49	.43	19	.2	1	1	2	0	0
FROSTBURG 2	38.5	18.8	28.7	1.4	64	12	1	6+	1013	0	0	11	24	0	1.34	-1.76	.49	19	5.1	3	6	3	0	0
SHARPSBURG 5 S	46.3	22.6	34.5		69	12	10	6	848	0	0	2	24	0	M .54		.20	12	M .3	T		2	0	0
WILLIAMSPORT	45.7	23.5	34.6		68	12	12	6+	845	0	0	4	26	0	M .41		.17	19	.0	0		1	0	0
--DIVISIONAL DATA-----> ALLEGHENY PLATEAU 08			33.5	1.4											1.14	-1.48			1.8					
OAKLAND 1 SE	39.1	16.5	27.8	-1.5	66	12	-2	5	1037	0	0	11	26	1	M .00		.00	27	.0	0		0	0	0
SAVAGE RIVER DAM	39.9	20.6	30.3	1.7	64	12	5	6+	965	0	0	8	26	0	.87	-1.60	.44	11	M .0	2	7	2	0	0
--DIVISIONAL DATA----->  DELAWARE NORTHERN 01			29.1	.6											.87	-2.22			.0					
BEAR 2 SW	46.7	25.7	36.2		68	11	11	5	800	0	0	2	24	0	.39		.18	18	1.5	1	4	1	0	0
WILMINGTON NEW CASTLE R	46.1	26.9	36.5	2.3	69	11	13	5	789	0	0	2	22	0	.30	-2.51	.17	18	1.5	1	4	1	0	0
WILMINGTON PORTER RSVR	45.8	27.6	36.7	4.0	68	11	12	5	787	0	0	2	22	0	M .94				1.0	1	28	1	0	0
--DIVISIONAL DATA-----> SOUTHERN 02			36.5	2.2											.35	-2.49			1.3					
DOVER	M	M	M																M	M				
GREENWOOD 2NE	47.9	27.0	37.5	3.2	68	12	11	6	764	0	0	1	22	0	.30	-2.88	.15	19	T	T		2	0	0
LEWES	50.3	32.4	41.4	3.1	71	11	15	6	655	0	0	1	14	0	.91	-2.31	.71	18	.0	0		1	1	0
--DIVISIONAL DATA----->			39.5	3.1											.61	-2.57			.0					

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	
<b>MARYLAND SOUTHERN EASTERN SHORE 01</b>																																	
ASSATEAGUE	.52			.05															.20				.04					.03	.20				
PRINCESS ANNE	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SALISBURY	.37			.04															.20				.09									.04	
SALISBURY FAA AP	.24			.01	T						T								.11	T		.04					.01	.07					
SNOW HILL 4 N	.37			.05	.01														.17	.03		.11											
<b>CENTRAL EASTERN SHORE 02</b>																																	
ROYAL OAK 2 SSW	.33			.03	T														.16				.13					T	.01				
VIENNA	.66			.31															.16	.05		.14											
<b>LOWER SOUTHERN 03</b>																																	
MECHANICSVILLE 5 NE	.35			.09	.02	T				T		.01			T				.21	T		T	.02						T				
SOLOMONS	.40			.06	T	T										T			.28		T	T	.06										
<b>UPPER SOUTHERN 04</b>																																	
BALTIMORE WASH INTL AP R	.26		T	.04	T				T		.08			T					.12	T		T				T	.01	.01	.01				
BELTSVILLE	.26			.03	.01							.05								.14	.01			.01								.01	
DALECARLIA RESERVOIR	.17			.04	.02							.02											.04									.05	
LAUREL 3 W	.38			.02							.11								.20				.05										
MD SCI CTR BALTIMORE R	.34			.01	.01						.10								.11				.01						.09	.01			
NATL ARBORETUM DC	.25			.03	T	T						.02								.18	T							T	.02				
OXON HILL	.45			.06	.01	.01				T		.07			T				.18	.01			.03									.08	
UPPER MARLBORO 3 NNW	.28			.07	.02	.01													.14				.04										
<b>NORTHERN EASTERN SHORE 05</b>																																	
CHESTERTOWN	.43			T	.16														.24	.01			.02										
<b>NORTHERN CENTRAL 06</b>																																	
ABERDEEN PHILLIPS FLD	.27			.04	.05	T														.18	T		T										
CATOCTIN MTN PARK	.45		.07		.04						.18	.07				.04					.01		.01						.02	.01			
CONOWINGO DAM	M .38	-			-		.07								.01								.05									.06	
CYLBURN	.30			.05	.03							.09									.13												
EMMITSBURG 2 SE	.54			.01							.16									.27												.10	
FREDERICK 2 NNE	.45			.08							.02				.11					.17												.07	
MILLERS 4 NE	.75		T	.08	.11						.05	.01	.05		T	.05			.17	.02		.05				T	.08	.08					
POTOMAC FLTR PLT	.73		.05		.03							.20		.10					.13	.02									.20				
SMITHSBURG 2NW	.52			.10	.02						.10				.08				.14													.08	
<b>APPALACHIAN MOUNTAIN 07</b>																																	
CUMBERLAND 2	.94			.05		T					.31	.07			.03				.01	.43	.02			T	T						.02		

MARYLAND AND DELAWARE  
FEBRUARY 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	1.34			.02	T	T						.46	.15			.04		T	T	.49	.06	T	T	.04	T		T	T	.08				
SHARPSBURG 5 S	M .54			.11	-	-	-		T	T		.04	.20			.07		T		.09	T			T	T				.03				
WILLIAMSPORT	M .41			-								.06	.09			.03				.17	-			.01					.05				
<b>ALLEGHENY PLATEAU 08</b>																																	
OAKLAND 1 SE	M .00			-								-	-			-			-	-				-					-				
SAVAGE RIVER DAM	.87								.05			.44				T		T		.06	.24			T	T			T			.08		
<b>DELAWARE</b>																																	
<b>NORTHERN 01</b>																																	
BEAR 2 SW	.39		T	.09	.02	T						.04	T		T				.18	.01				.04			T	T	T	.01			
WILMINGTON NEW CASTLE R	.30		T	.05	.02	T						T	T		T				.17	T				.04			T	T	.02	T			
WILMINGTON PORTER RSVR	M .94	T	T	*	.69	-						T							.17	T			.06					T	T	.02			
<b>SOUTHERN 02</b>																																	
DOVER	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GREENWOOD 2NE	.30			.01	.04	T																		.10								T	
LEWES	.91			T	.03				T			.02								.71	.06			.09									







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			
WILLIAMSPORT	06	MIN	16	21	27	22	11	10	14	29	23	23	38	40	41	23	22	25	16	16	30	21	15	15	26	14	15	15	37	29					22.6	
		MAX	30	60	46	39	32	25	44	65	62	51	45	68	54	47	41	43	39	43	40	44	34	45	39	32	40	50	59	62					45.7	
		OBS	***		***																															
ALLEGHENY PLATEAU 08 OAKLAND 1 SE	07	MIN	12	18	25	25	12	12	17	27	24	24	32	38	41	26	28	27	21	20	30	22	17	17	27	17	18	17	32	31					23.5	
		MAX	38	48	32	26	17	18	45	56	53	57	49	66	43	39	34	30	28	41	48	30	22	39	23	20	31	49	54	58					39.1	
		OBS	6	28	20	7	-2	1	10	31	23	31	38	29	21	22	18	3	5	30	9	5	6	14	5	5	11	38	24					16.5		
SAVAGE RIVER DAM	08	MAX	41	49	36	36	22	16	40	56	52	49	44	64	46	46	34	33	31	36	46	29	29	40	28	24	31	45	54	60					39.9	
		MIN	11	29	22	16	5	5	12	27	26	26	31	39	34	24	25	24	14	14	28	15	13	15	19	14	14	16	31	29					20.6	
		OBS																																		
DELAWARE NORTHERN 01 BEAR 2 SW M	MID	MAX	55	55	36	31	24	38	57	64	50	53	68	60	45	44	42	39	42	46	49	35	41	43	36	38	46	50	66	54					46.7	
		MIN	21	28	30	24	11	12	17	36	23	31	41	43	30	24	26	28	20	19	26	24	25	31	26	20	15	21	30	38					25.7	
		OBS													39																					
WILMINGTON NEW CASTLE M	MID	MAX	53	55	37	31	24	34	52	64	48	53	69	61	44	44	43	41	42	46	49	35	41	42	37	37	43	49	66	52					46.1	
		MIN	23	28	30	22	13	15	19	35	29	34	41	42	36	28	28	26	22	25	26	23	23	29	25	20	18	24	32	36					26.9	
		OBS			53																															
WILMINGTON PORTER RSVRM	MID	MAX	53	53	36	31	24	36	54	64	50	55	68	62	46	47	42	39	41	45	47	33	40	42	34	36	41	48	63	51					45.8	
		MIN	29	19	28	15	12	14	25	35	32	37	48	45	40	33	30	30	25	27	26	23	23	29	25	19	19	29	29	28					27.6	
		OBS			19																															
SOUTHERN 02 DOVER	16	MAX																																	M	
		MIN																																		M
		OBS																																		
GREENWOOD 2NE	07	MAX	35	58	58	35	33	24	41	59	66	52	62	68	59	49	48	43	40	41	49	49	37	42	48	36	37	48	58	65					47.9	
		MIN	20	35	33	24	16	11	17	30	25	25	38	54	41	26	29	27	23	23	29	23	22	31	27	21	15	19	32	39					27.0	
		OBS																																		
LEWES	17	MAX	59	60	44	34	31	41	61	63	62	65	71	66	55	45	40	39	38	44	51	43	42	49	38	36	42	60	67	61					50.3	
		MIN	23	40	33	26	16	15	27	49	35	35	55	55	42	30	33	31	29	27	42	24	25	34	28	21	20	33	43	37					32.4	
		OBS																																		

## 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
<b>MARYLAND</b>																																
<b>SOUTHERN EASTERN</b>																																
<b>SHORE 01</b>																																
SALISBURY FAA AP	SNOWFALL SN ON GND			T	T																		T									
SNOW HILL 4 N	SNOWFALL SN ON GND			T	T																											
<b>CENTRAL EASTERN</b>																																
<b>SHORE 02</b>																																
ROYAL OAK 2 SSW	SNOWFALL SN ON GND			T	.5 T																		T									
<b>LOWER SOUTHERN 03</b>																																
MECHANICSVILLE 5 NE	SNOWFALL SN ON GND			T	T	T											T		T		T											
SOLOMONS	SNOWFALL SN ON GND			T	T	T											T		T		T											
<b>UPPER SOUTHERN 04</b>																																
BALTIMORE WASH INTL AP R	SNOWFALL SN ON GND		T	T	.4 T														.2				T							T		
	WTR EQUIV																															
BELTSVILLE	SNOWFALL SN ON GND			T	T																											
DALECARLIA RESERVOIR	SNOWFALL SN ON GND			T	T																											
NATL ARBORETUM DC	SNOWFALL SN ON GND			T	.1 T	T																T										

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
OXON HILL	SNOWFALL SN ON GND			.1 T	T T	.2											T		.3				T									
UPPER MARLBORO 3 NNW	SNOWFALL SN ON GND			.3 T	.2 T	T														.1												
<b>NORTHERN EASTERN SHORE 05</b>																																
CHESTERTOWN	SNOWFALL SN ON GND			T	2.0 T	T												T T														
<b>NORTHERN CENTRAL 06</b>																																
ABERDEEN PHILLIPS FLD	SNOWFALL SN ON GND			.1 T	.2 1	T T														T T	T T											
CATOCTIN MTN PARK	SNOWFALL SN ON GND		- T	- 1	- 3	- 1																	T									
CONOWINGO DAM	SNOWFALL SN ON GND	.5 -			1.0 -	-																										
CYLBURN	SNOWFALL SN ON GND			.4 -	.3																											
EMMITSBURG 2 SE	SNOWFALL SN ON GND			.3																												
FREDERICK 2 NNE	SNOWFALL SN ON GND	T	T	T																												
MILLERS 4 NE	SNOWFALL SN ON GND		T T	1.0 T	2.0 1	1	T	T						T T	.8 T			.6 T	T				.2									
<b>APPALACHIAN MOUNTAIN 07</b>																																
CUMBERLAND 2	SNOWFALL SN ON GND			T		T									T			T		.2				T	T							
FROSTBURG 2	SNOWFALL SN ON GND	1		.8 3	.2 3	.1 3	3	3	2	T					.6 1	T	T	T	.2	1.0	T	T	1.8	1.8	.4							
SHARPSBURG 5 S	SNOWFALL	3	2	-	-	-	-								.3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	

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## 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	
<b>ALLEGHENY PLATEAU 08</b>	SN ON GND	T	T	-	-	-	-									T																	
	SAVAGE RIVER DAM															T				-					T	T							
<b>DELAWARE</b>	SNOWFALL																																
	SN ON GND	2	2	2	2	2	2	2												-				-	-	-							
<b>NORTHERN 01</b>	BEAR 2 SW				1.0	.4	.1																										
	WILMINGTON NEW CASTLE R				1	1													T														
<b>SOUTHERN 02</b>	SNOWFALL				1.0	.4	.1												T					T									
	SN ON GND				T	1	T																										
<b>GREENWOOD 2NE</b>	WTR EQUIV																																
	WILMINGTON PORTER RSVR				.5	T																											.5
<b>GREENWOOD 2NE</b>	SNOWFALL				1	T																											1
	SN ON GND				T	T																											

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).

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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)		
<b>MARYLAND</b>												
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	07	07			H	TIMOTHY B THOMAS
CYLBURN	2308	06	BALTIMORE	39 22	76 38W	400	08	08			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
<b>DELAWARE</b>												
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."

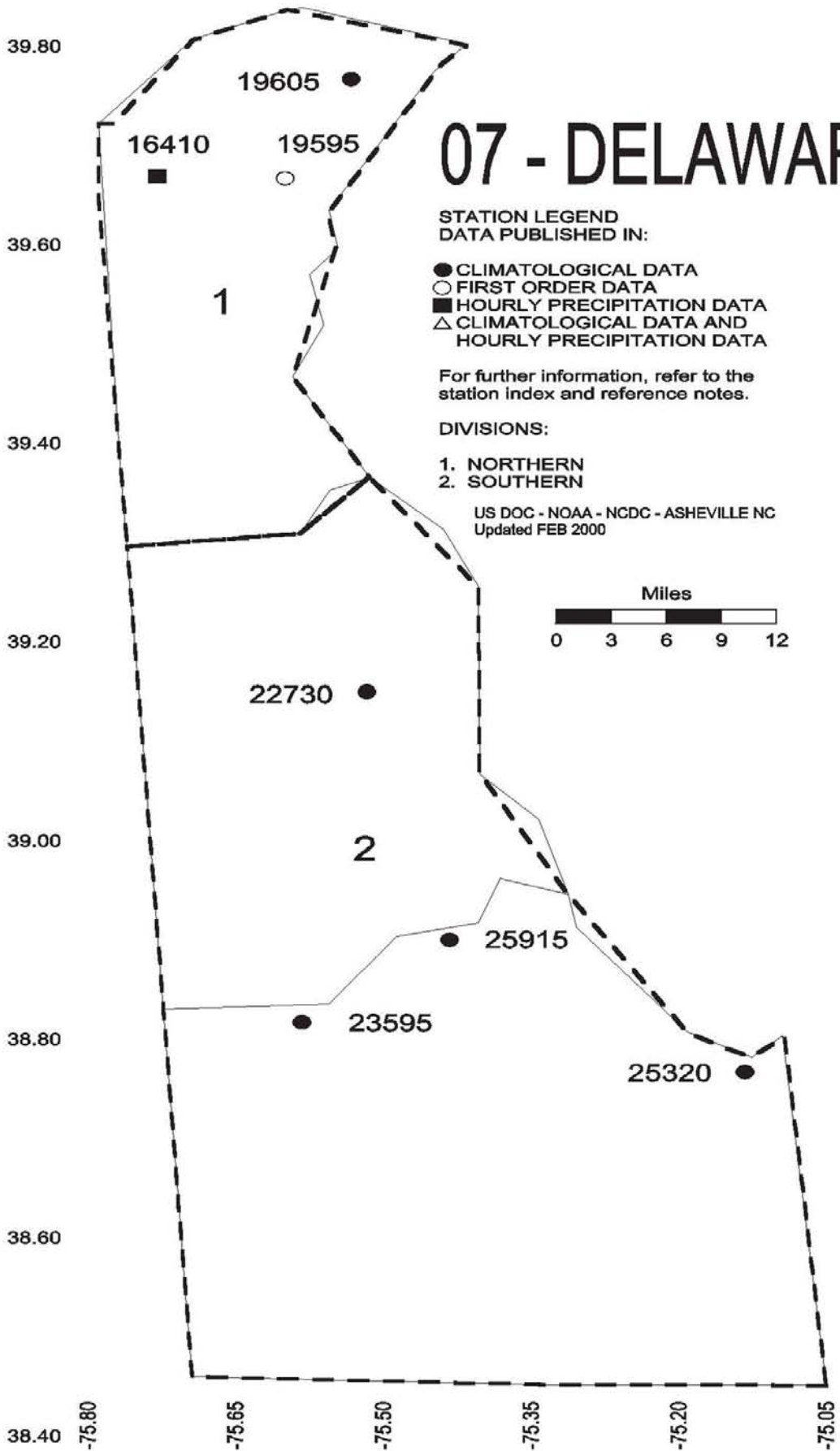
Information concerning the history of changes in locations, exposure, etc. of substations is kept on file at the National Climatic Data Center. Historical information of regular National Weather Service Offices may be obtained from the "Local Climatological Data" annual publication. The contents of this publication may be reprinted or otherwise used freely, with proper credit to the National Climatic Data Center. The data are also available in digital form on magnetic tape and diskette.

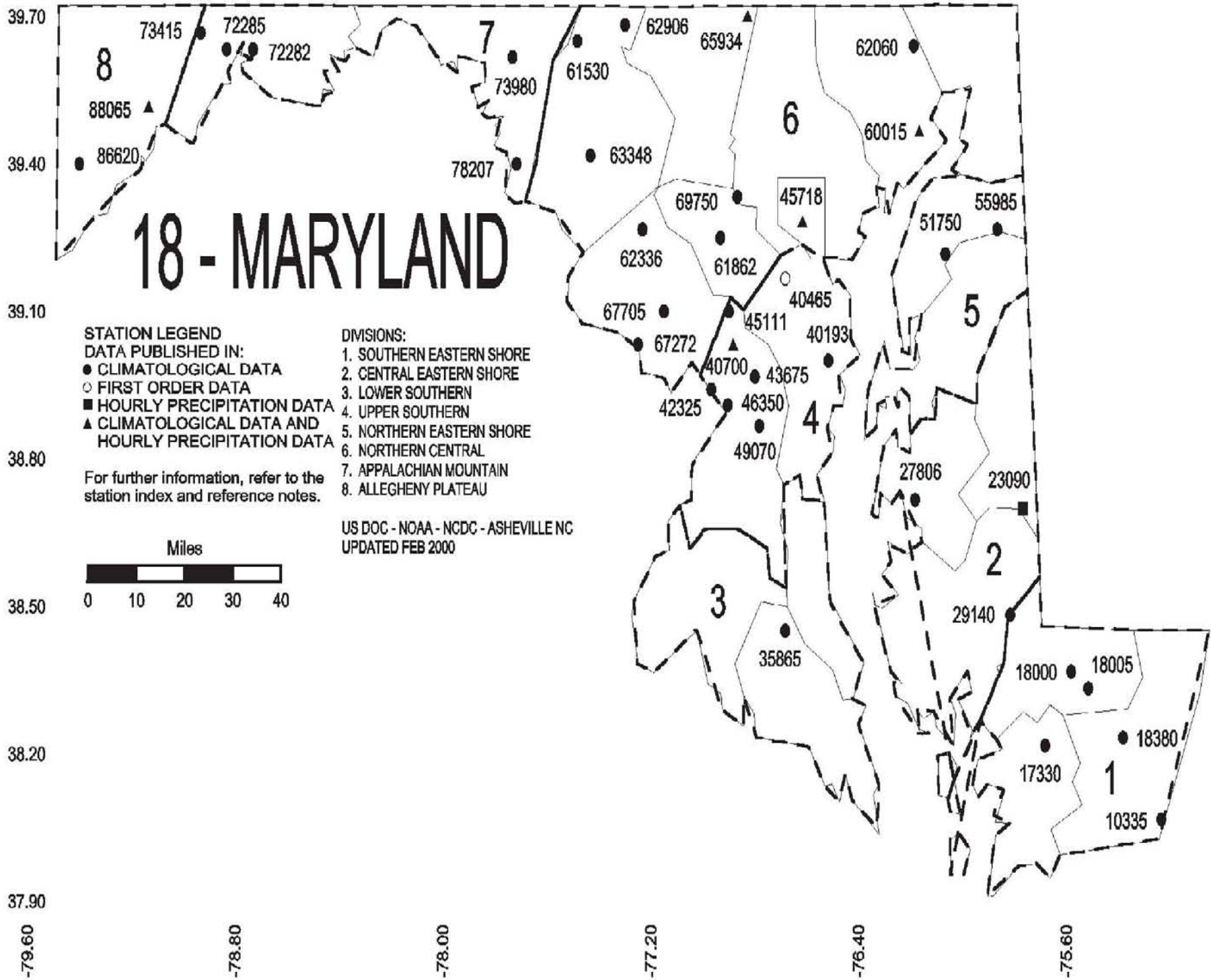
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## **These and other publications are available from the National Climatic Data Center**

### **Hourly Precipitation Data**

This publication contains hourly precipitation amounts obtained from recording rain gages located at National Weather Service, Federal Aviation Administration, and cooperative observer stations. Published data are displayed in inches and tenths or inches and 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**

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