



CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE



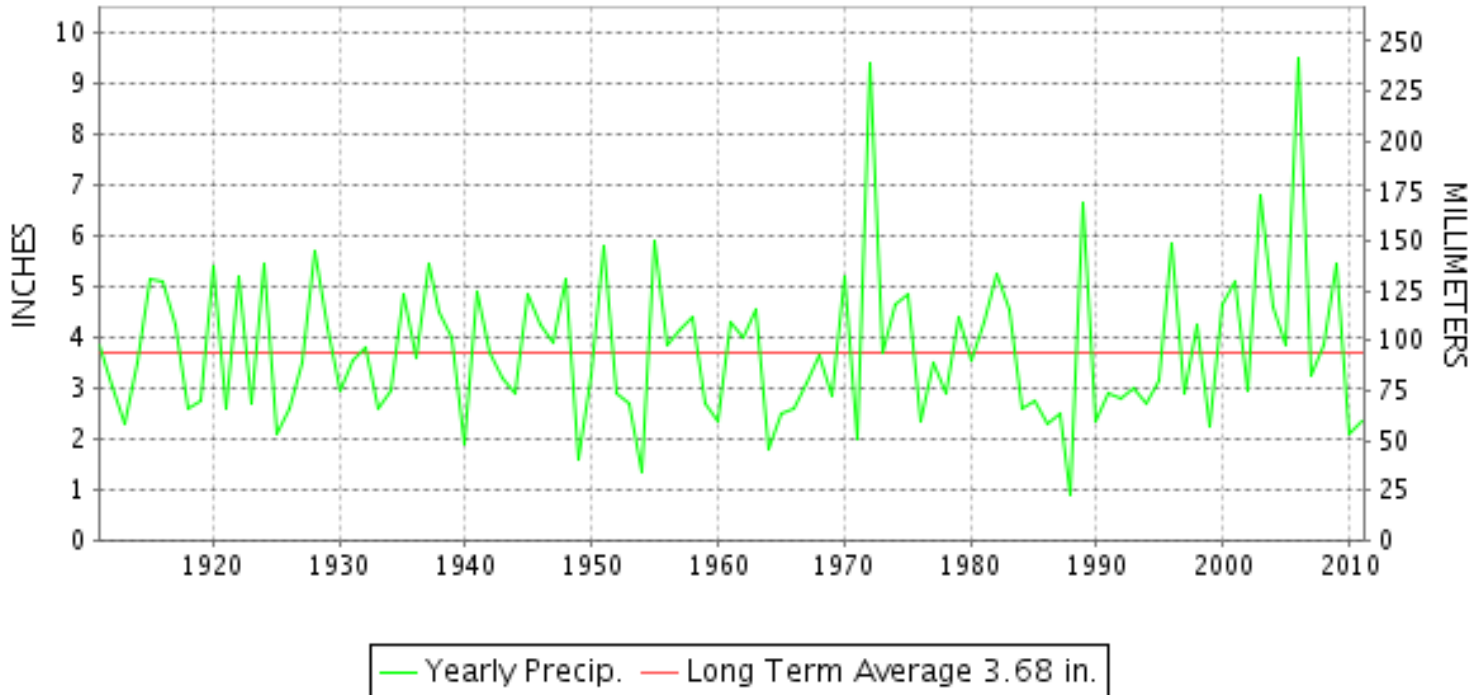
JUNE 2011

VOLUME 115 NUMBER 06

ISSN 0145-0549

GHCND Ver: 2.91-upd-2012021008

JUNE PRECIPITATION BY YEAR



TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND

HIGHEST TEMPERATURE	103	JUNE 09	MD SCI CTR BALTIMORE
LOWEST TEMPERATURE	40	JUNE 03	OAKLAND 1 SE
GREATEST TOTAL PRECIPITATION	8.00		SOLOMONS
LEAST TOTAL PRECIPITATION	1.08		EMMITSBURG 2 SE
GREATEST 1 DAY PRECIPITATION	3.52	JUNE 17	SOLOMONS

"I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA) It is compiled using information from weather observing sites supervised by NOAA/National Weather Service and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801."

Director
National Climatic Data Center

noaa

National
Oceanic and
Atmospheric Administration

National
Environmental Satellite, Data
and Information Service

National
Climatic Data Center
Asheville, North Carolina

DELAWARE

HIGHEST TEMPERATURE	98	JUNE 10+	DOVER
LOWEST TEMPERATURE	47	JUNE 04	BEAR 2 SW
GREATEST TOTAL PRECIPITATION	3.95		BEAR 2 SW
LEAST TOTAL PRECIPITATION	1.83		DOVER
GREATEST 1 DAY PRECIPITATION	1.38	JUNE 28	BEAR 2 SW

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										
EMMITSBURG 2 SE	82.2	61.3	71.8	1.3	93	01	49	04	5	214	4	0	0	0	1.08	-3.27	0.52	17	0.0	0		3	1	0
FREDERICK 2 NNE	M	M	M												M				0.0	0				
MILLERS 4 NE	82.9	61.0	72.0	2.3	94	08	48	04	5	219	3	0	0	0	1.87	-1.75	1.12	12	0.0	0		3	1	1
SMITHSBURG 2NW	82.4M	58.7MF	70.6MF		93	09	45	14	15	184	4	0	0	0	M 1.31		0.76	16	0.0	0		3	1	0
WESTMINSTER	84.8M	62.8M	73.8M		96	10	51	15+	3	213	6	0	0	0	M 1.40		0.81	17	N 0.0	0		5	1	0
--DIVISIONAL DATA----->			72.6	1.9											1.64	-2.41								
APPALACHIAN MOUNTAIN 07																								
CUMBERLAND 2	85.9	59.6	72.8	2.6	98	09	49	16+	2	242	8	0	0	0	2.14	-0.98	0.52	28+	0.0	0		8	2	0
FROSTBURG 2	76.3	55.8	66.1	1.9	87	09+	43	03	49	87	0	0	0	0	2.09	-1.75	0.72	20	0.0	0		6	1	0
SHARPSBURG 5 S	83.6	58.7	71.2		94	10+	47	04+	12	200	6	0	0	0	M				0.0	0				
WILLIAMSPORT	84.4M	61.6M	73.0M		95	10+	49	05	2	240	7	0	0	0	M 2.64		0.59	12	N 0.0	0		8	1	0
--DIVISIONAL DATA----->			70.8	2.3											2.29	-1.23								
ALLEGHENY PLATEAU 08																								
OAKLAND 1 SE	77.1	54.9	66.0	1.7	88	01	40	03	53	87	0	0	0	0	4.58	-0.02	0.71	18	0.0	0		9	6	0
SAVAGE RIVER DAM	78.3	57.1	67.7	2.2	89	01	44	03	26	113	0	0	0	0	4.12	0.45	1.74	20	0.0	0		7	2	1
--DIVISIONAL DATA----->			66.9	2.5											4.35	0.14								
DELAWARE NORTHERN 01																								
BEAR 2 SW	83.7	62.5	73.1		96	09	47	04	2	254	4	0	0	0	3.95		1.38	28	0.0	0		8	3	1
WILMINGTON NEW CASTLE	84.2	63.8	74.0	2.5	97	09	49	04	0	277	3	0	0	0	2.49	-1.10	0.98	28	N 0.0	0		6	1	0
WILMINGTON PORTER RES	82.0	65.2	73.6		96	09	54	15	0	264	3	0	0	0	3.11		0.55	22	0.0	0		9	2	0
--DIVISIONAL DATA----->			73.6	2.2											3.18	-0.72								
SOUTHERN 02																								
DOVER	87.1	65.4	76.3	3.4	98	10+	53	04	0	341	9	0	0	0	1.83	-1.94	0.88	10	0.0	0		4	2	0
LEWES	M	M	M												M 1.75		0.70	15	N 0.0	0		3	1	0
--DIVISIONAL DATA----->			76.3	4.6											1.79	-1.62								

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	1.98					0.05					0.21					0.01	0.22	0.32	0.09	0.52										0.05	0.49	0.02	
PRINCESS ANNE	M			-	-	-					-	-	-	-	-		0.40	-	-	1.78	0.03						-	-	0.15	-	-		
SALISBURY 2N	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SALISBURY FAA AP	1.19				0.02	0.06	0.03				0.16	0.03				0.02	0.02	0.02	0.20	0.37					T	0.11		0.05	0.09	0.01			
SNOW HILL 4 N	1.73					0.02					0.39	0.01					0.06		0.45	0.63								0.04		0.13			
CENTRAL																																	
EASTERN SHORE 02																																	
FEDERALSBURG R	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ROYAL OAK 2 SSW	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LOWER SOUTHERN 03																																	
MECHANICSVILLE 5 NE	1.22					T					T		0.15	T		T	0.37	0.09	T	0.40	0.13					T		T	0.05	0.03			
SOLOMONS	8.00				0.02					0.01		1.28	0.87			0.01	3.52		0.57	0.88	0.20					0.03		0.34	T	0.27			
UPPER SOUTHERN 04																																	
BALTIMORE WASH INTL AP	3.51				T	0.18			0.29	0.16	T	0.39				1.96	T	0.07	T	0.08	0.02	T	T	T		T	0.01	0.35					
BELTSVILLE	2.79				0.07					0.01	0.15						1.05	0.29		0.23	0.04										0.95		
DALECARLIA RSVR	1.19																0.62	0.06		0.40	0.08	0.01						0.02					
LAUREL 3 W	M	-	-	-	-	0.04	-	-	-	-	0.25	-	-	-	-	-	0.21	1.10	0.25	-	0.26	0.05	-	-	-	-	-	-	0.01	0.08	-	-	
MD SCI CTR BALTIMORE R	M 1.04								0.17	0.39	-					0.23	0.02	0.01		0.03	0.09								0.10				
NATL ARBORETUM DC	1.43		0.10			T				0.19						0.01	0.68		T	0.27	0.08	0.05						0.02		0.03			
OXON HILL	2.84		0.04			T				0.09		0.82	0.03		T		1.24	0.34	0.01	0.17	0.07	0.01		T			0.02		T				
UPPER MARLBORO 3 NNW	1.74		0.37		0.12					0.10			0.03				0.84	0.08		0.17	0.03												
NORTHERN																																	
EASTERN SHORE 05																																	
CHESTERTOWN	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NORTHERN CENTRAL 06																																	
ABERDEEN PHILLIPS FLD	FM 3.23					-	0.16 ^L					1.19	1.59				0.43				0.01				T	0.01		T		T			
BRIGHTON DAM	1.20				0.17					0.20		0.02					0.33	0.20		0.18	0.10												
CATOC TIN MTN PARK	F 1.43	0.01 ^L	0.00 ^L					0.02 ^L	0.00 ^L	0.02		0.12				0.07	0.59		0.36	0.18	0.05 ^L	0.00 ^L	0.01	0.05 ^a				0.03					
CONOWINGO DAM	3.19				0.14	0.03					0.23	1.46	0.58				0.51			0.02								0.01		0.21			
CYLBURN	FM 0.09				T					-	0.48 ^L					0.03	0.03	0.03	-	-	-	-	0.15 ^L										
DAMASCUS 3 SSW	1.57				T	T			0.01			0.55		T		0.14	0.64		T	0.17	0.03			T	T		T	0.03					
EMMITSBURG 2 SE	1.08				0.03	0.01				0.09		0.06					0.52			0.04	0.03	0.09	0.10	0.11									
FREDERICK 2 NNE	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MILLERS 4 NE	1.87				0.03	0.08	0.01				T		1.12			0.06	0.39			T	0.01	0.02	0.01	0.14	T	T	T	T					
SMITHSBURG 2NW	M 1.31											0.20				0.76			0.25		0.05	0.05											
WESTMINSTER	M 1.40		0.01		0.14	0.20											0.81			0.01	0.13	0.10	T	-	-	-	-	-	-	-			
APPALACHIAN																																	
MOUNTAIN 07																																	
CUMBERLAND 2	2.14					0.14					0.03	0.03	0.01	0.11						0.14	0.06	0.52	0.27	0.10	0.21	T			T	0.52			

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	2.09		T			0.27			0.01		0.06		0.02	0.16		T		0.21	0.11	0.04	0.72	0.02	0.07	0.01	0.04	0.01								0.34	
SHARPSBURG 5 S	M					0.06					T	0.01	0.12	0.12				-	-	-	-	-	-	-	-	-	0.98 ^L		0.02				0.03		
WILLIAMSPORT	M 2.64		0.12			0.19						0.10	0.59	0.45				-	0.08	0.17		0.08	0.37	0.44	0.01	0.01									
ALLEGHENY PLATEAU 08																																			
OAKLAND 1 SE	4.58					0.55					0.52	0.50					0.03	0.41	0.71	0.65	0.35	0.03	0.22		0.06								0.55		
SAVAGE RIVER DAM R	4.12					0.18					0.10	0.08					T	0.77	0.38	0.47	1.74	0.03	0.04	T									0.33		
DELAWARE																																			
NORTHERN 01																																			
BEAR 2 SW	3.95				T	0.02				0.10		0.84	0.11				0.35	0.61					0.22		0.31	0.01	T		T		1.38				
NEWARK UNIV FARM R	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WILMINGTON NEW CASTLE R	2.49	0.05			T	T				0.36	T	0.21	0.04		0.02		0.22	0.42					0.16	T	0.02	0.01		T		T		0.98			
WILMINGTON PORTER RES	3.11	0.03								0.50	T	0.10	0.33		0.11		0.38	0.42					0.02	0.55	0.24								0.43		
SOUTHERN 02																																			
DOVER	1.83					0.03					0.88		0.06								0.04	0.16	0.03											0.12	
LEWES	M 1.75			-	-	-					0.09	*	*	0.06 _a	0.02	0.70		-	-		*	0.02 _a	0.47	0.39		-	-	-	-						

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		
NORTHERN CENTRAL 06		MIN																																	M
ABERDEEN PHILLIPS FLD	07	MAX	94	92	84	79	80	76	85	87	94	97	90	86	84	75	74	83	81	82	84	84	77	85	90	87	88	82	82	81	85	86	84.5		
		MIN	71	67	53	50	55	59	61	64	68	73	69	67	61	60	56	58	62	65	67	69	69	70	72	66	61	65	69	71	60	64.2			
CATOCTIN MTN PARK	17	MAX	87	83	73	75	78	80	79	91	91	87	83	82	77	67	77	75	78	78	80	73	74	81	80	78	73	88	94	85	93	86	80.9		
		MIN	70	65	49	48	59	57	57	65	74	65	67	62	53	52	46	55	59	61	63	63	65	68	70	65	59	55	57	61	75	52	60.6		
CONOWINGO DAM	07	MAX	97	97	84	80	83	80	87	90	95	99	94	86	84	85	79	85	86	84	89	87	81	85	89	93	89	84	89	84	86	88	87.3		
		MIN	69	68	63	53	55	57	58	62	65	69	68	67	64	64	59	60	57	62	65	64	63	66	68	75	70	55	60	67	60	59	63.1		
CYLBURN	08	MAX	89	90	80	74	76	75	78	84	90																							81.3	
		MIN	66	68	54	51	59	61	61	67	70																							M	
DAMASCUS 3 SSW	22	MAX	91	81	75	77	78	82	84	92	93	89	86	84	74	70	80	76	79	79	79	76	86	87	80	81	78	78	77	88	83	82	81.5		
		MIN	72	66	51	50	64	61	63	65	72	68	70	68	56	55	50	59	60	64	68	65	66	69	73	68	64	58	65	69	56	59	63.1		
EMMITSBURG 2 SE	07	MAX	93	90	79	77	77	78	83	83	92	92	89	85	84	74	74	80	78	79	83	82	76	85	85	82	82	77	78	76	89	85	82.2		
		MIN	70	68	54	49	52	58	57	59	63	69	69	65	58	57	50	51	54	61	65	67	67	70	67	65	58	63	65	65	57	61.3			
FREDERICK 2 NNE	07	MAX																																M	
		MIN																																M	
MILLERS 4 NE	18	MAX	91	87	77	76	80	82	85	94	93	89	87	86	75	74	80	79	80	82	84	77	86	86	84	82	78	79	78	88	86	83	82.9		
		MIN	69	65	51	48	58	57	58	64	70	68	68	65	55	54	50	55	59	62	61	65	64	66	70	65	60	57	63	63	64	57	61.0		
SMITHSBURG 2NW	08	MAX	91	90	79	76	77	81	82	82	93	92	88																					82.4	
		MIN	68	62	46	47	49	56	56	61	63	66	67																					58.7	
WESTMINSTER	07	MAX	94	94	82	77	80	80	83	87	95	96	91	88	88	76	74	82	78	83	83	85	78	87	90								84.8		
		MIN	73	69	53	51	56	59	60	66	68	70	72	67	58	56	51	56	61	62	67	66	66	67	71									62.8	
APPALACHIAN MOUNTAIN 07																																			
CUMBERLAND 2	18	MAX	95	93	90	82	85	88	87	84	98	96	93	88	86	80	75	80	79	85	85	84	77	93	91	89	85	74	80	80	88	87	85.9		
		MIN	66	67	50	49	49	57	57	57	61	66	66	65	56	54	50	49	58	58	63	65	65	68	68	63	63	57	57	64	63	57	59.6		
FROSTBURG 2	07	MAX	87	87	73	72	80	77	80	74	87	86	81	81	77	66	66	72	71	75	77	72	73	82	83	76	69	66	72	80	74	76.3			
		MIN	67	60	43	44	49	54	55	56	67	60	60	61	48	49	45	47	54	56	56	59	59	64	65	59	54	54	60	58	52	55.8			
SHARPSBURG 5 S	07	MAX	94	93	81	77	81	82	84	84	94	94	90	88	86	75	72	80	78	84	81	77	79	89	87	84	82	78	79	79	90	85	83.6		
		MIN	67	57	47	47	48	57	55	57	64	66	66	63	54	50	48	48	60	61	63	66	67	67	69	66	57	55	57	64	60	54	58.7		
WILLIAMSPORT	06	MAX	94	92	93	79	81	82	85	85	95	95	90	86	88	75	74		79	81	81	80	78	87	87	84	82	78	82	79	90	85	84.4		
		MIN	68	60	53	53	49	60	59	59	64	69	69	66	59	56	51		58	61	64	68	66	68	70	68	61	59	59	66	66	58	61.6		
ALLEGHENY PLATEAU 08																																			
OAKLAND 1 SE	07	MAX	88	85	85	75	81	79	81	71	87	86	83	81	80	67	64	70	74	77	74	71	75	82	82	77	67	65	73	76	81	75	77.1		
		MIN	61	60	40	41	50	55	51	56	61	60	59	59	48	43	44	50	54	57	55	62	62	63	66	61	58	51	55	61	56	48	54.9		
SAVAGE RIVER DAM	08	MAX	89	84	76	76	82	81	81	74	88	88	85	82	82	71	68	72	75	78	78	73	75	84	83	78	71	68	74	74	82	77	78.3		
		MIN	63	61	44	46	51	55	55	57	61	62	62	62	55	51	50	50	55	56	61	61	63	64	63	61	62	55	56	63	56	53	57.1		
DELAWARE NORTHERN 01																																			
BEAR 2 SW	24	MAX	93	83	77	80	75	84	87	94	96	89	85	82	75	75	83	79	82	85	85	77	85	91	86	87	83	81	81	83	85	83	83.7		
		MIN	68	60	55	47	62	55	59	64	71	70	68	67	58	53	54	58	66	63	63	64	65	69	72	67	64	60	66	64	65	59	62.5		

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	
WILMINGTON NEW CASTLE	24	MAX	94	83	78	81	75	84	88	96	97	88	84	81	76	76	84	81	82	86	87	77	85	89	86	88	85	82	80	84	85	84	84	
		MIN	72	58	52	49	63	57	64	67	72	70	69	66	60	55	53	62	66	65	65	68	66	70	74	66	65	62	67	66	66	60		
WILMINGTON PORTER RES	24	MAX	92	80	75	78	74	80	87	93	96	87	82	78	73	74	81	79	82	85	84	77	82	88	85	86	81	79	79	81	81	81		
		MIN	71	66	55	55	63	60	63	67	72	70	67	64	63	58	54	64	66	66	69	67	65	67	71	70	71	64	68	67	69	63		
SOUTHERN 02																																		
DOVER	16	MAX	93	90	85	80	80	82	88	95	98	98	88	82	82	77	83	83	87	88	88	82	87	91	90	90	90	86	85	89	89	86		
		MIN	71	69	54	53	63	58	64	71	72	70	69	66	59	57	56	63	67	69	68	66	64	71	74	70	68	66	64	69	69	63		
LEWES	08	MAX	87	94				87	80	89	94	100		87	77	76			88		88	74	86				90	82	91	91				
		MIN	71	73				59	65	68	73	70			68	61	62			68		68	61	66				69	71	73	71			

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																																
DELAWARE NORTHERN 01																																

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)

PAN EVAPORATION AND WIND

STATION		DAY OF MONTH																															TOTAL OR 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	
MARYLAND UPPER SOUTHERN 04 BELTSVILLE	WIND	27	59	82	56	35	18	39	46	39	61	50	-	88	77	75	32	49	35	-	53	25	28	30	42	-	104	30	23	42	54	1299	
	EVAP	0.25	0.34	0.42	0.29	0.17	0.17	0.26	0.24	0.25	0.36	0.17	-	0.56	0.31	0.12	0.26	0.19	0.29	-	0.32	0.13	0.16	0.21	0.17	-	0.52	0.18	0.11	0.28	0.44	7.17	
	MAX	98	98	87	84	85	86	93	90	97	99	92	-	94	84	76	88	78	90	-	92	88	95	95	90	-	91	89	85	99	93	90.3	
	MIN	75	66	55	54	55	64	63	67	65	72	63	-	64	61	63	58	59	66	-	69	68	69	71	70	-	62	66	69	70	62	64.7	
UPPER MARLBORO 3 NNW	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	EVAP	0.24	0.24	0.36	-	-	0.64	0.20	0.23	0.27	0.31	-	-	0.60	0.26	0.15	0.20	0.13	-	-	0.48	0.12	-	0.39	0.15	-	-	0.63	0.12	0.26	0.32	6.30	
	MAX	98	98	90	87	92	89	94	91	102	103	102	95	96	91	80	94	80	92	96	89	88	95	98	89	95	88	90	86	100	95	92.9	
	MIN	73	66	55	55	56	63	63	65	71	72	73	69	63	58	55	56	61	65	69	69	68	69	72	69	68	66	66	70	71	64	65.3	
ALLEGHENY PLATEAU 08 SAVAGE RIVER DAM	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	EVAP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	

Evaporation: Is measured in hundredths of inches.

Wind: Is measured in miles.

Max and Min: The maximum and minimum temperatures (Fahrenheit) of the water in the evaporation pan.

STATION INDEX

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES			
							LOCAL STD TIME			
							TEMP	PRECIP	EVAP	SPECIAL SEE (NOTES)
MARYLAND										
ABERDEEN PHILLIPS FLD R	0015	06	HARFORD	39 28	76 10W	57	07	07		CH
ASSATEAGUE	0335	01	WORCESTER	38 4	75 13W	10	24	24		H
BALTIMORE WASH INTL AP R	0465	04	ANNE ARUNDEL	39 10	76 41W	156	24	24		CHJ
BELTSVILLE R	0700	04	PRINCE GEORGE'S	39 2	76 56W	145	08	08	EV	CH
BRIGHTON DAM	1125	06	MONTGOMERY	39 11	77 0W	330		07		H
CATOCTIN MTN PARK	1530	06	FREDERICK	39 39	77 29W	1610	17	17		H
CHESTERTOWN	1750	05	KENT	39 13	76 3W	40	23	23		H
CONOWINGO DAM	2060	06	HARFORD	39 39	76 11W	40	07	07		H
CUMBERLAND 2	2282	07	ALLEGANY	39 39	78 45W	730	18	18		H
CYLBURN	2308	06	BALTIMORE	39 21	76 39W	235	08	08		H
DALECARLIA RSVR	2325	04	PRINCE GEORGE'S	38 56	77 6W	150	08	08		H
DAMASCUS 3 SSW	2336	06	MONTGOMERY	39 15	77 13W	700	22	22		H
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 17W	403	07	07		H
FREDERICK 2 NNE	3353	06	FREDERICK	39 26	77 24W	280	07	07		H
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2170	07	07		H
LAUREL 3 W	5111	04	PRINCE GEORGE'S	39 5	76 54W	400	24	07		H
MD SCI CTR BALTIMORE R	5718	04	BALTIMORE (CITY)	39 17	76 37W	20	24	24		CH
MECHANICSVILLE 5 NE	5865	03	ST MARY'S	38 28	76 42W	100	07	07		H
MILLERS 4 NE R	5934	06	CARROLL	39 43	76 48W	860	18	18		CH
NATL ARBORETUM DC	6350	04	DISTRICT OF COLUMBIA	38 55	76 58W	50	07	07		H
OAKLAND 1 SE	6620	08	GARRETT	39 25	79 24W	2420	07	07		H
OXON HILL	6800	04	PRINCE GEORGE'S	38 48	76 60W	120	08	08		H
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	17	17		H
ROYAL OAK 2 SSW	7806	02	TALBOT	38 43	76 11W	10	17	17		H
SALISBURY 2N	8004	01	WICOMICO	38 24	75 36W	20	17	17		H
SALISBURY FAA AP	8005	01	WICOMICO	38 20	75 31W	48	24	24		H
SAVAGE RIVER DAM R	8065	08	GARRETT	39 31	79 8W	1495	08	08	EV	CH
SHARPSBURG 5 S	8207	07	WASHINGTON	39 24	77 43W	500	07	07		H
SMITHSBURG 2NW	8371	06	WASHINGTON	39 40	77 35W	670	08	08		H
SNOW HILL 4 N	8380	01	WORCESTER	38 14	75 23W	30	17	17		H
SOLOMONS	8405	03	CALVERT	38 19	76 27W	12	08	08		H
UPPER MARLBORO 3 NNW	9070	04	PRINCE GEORGE'S	38 51	76 46W	130	08	08	EV	H
WESTMINSTER	9440	06	CARROLL	39 34	76 59W	765	07	07		H
WILLIAMSPORT	9570	07	WASHINGTON	39 36	77 50W	360	06	06		H
DELAWARE										
BEAR 2 SW	1200	01	NEW CASTLE	39 36	75 44W	80	24	24		H
DOVER	2730	02	KENT	39 15	75 31W	30	16	16		H
LEWES	5320	02	SUSSEX	38 47	75 8W	15	08	08		CH
WILMINGTON NEW CASTLE R	9595	01	NEW CASTLE	39 40	75 36W	79	24	24		CHJ
WILMINGTON PORTER RES	9605	01	NEW CASTLE	39 46	75 32W	270	24	24		H

REFERENCE NOTES

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 flag precipitation data that are spatially inconsistent, exceed climatological limits, or are inconsistent with prevailing weather patterns.

TEMPERATURE: Original temperature values are given in the "Daily Temperature" table. 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

- 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.
- VAR Observation time varies.
- SR Observation time near sunrise.
- SS Observation time near sunset.

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

- No record. Data not recorded or not received in time for publication.

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

* Rain gage not read. Precipitation is included in the amount following the asterisks. Time distribution may not be known. A * preceding the monthly total indicates precipitation amount is being carried forward to next month's total, and may include amounts from the previous month(s).
a As a subscript, indicates accumulated total.

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)

F Monthly calculation flagged value. F is appended to average and/or total values computed which exclude one or more daily data values that have been flagged by the GHCN-Daily Dataset

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).

N Indicates snow fall or Snowdepth totals are computed with one or more missing days.

R Amounts from recording rain gage.

T Trace. An amount too small to measure.

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 digitally.

Effective with the January 2011 Data-Month, COOP Observer Names are no longer included in the Monthly and Annual Climatological Data Publications. This information is not published to ensure the privacy of personal information pursuant to Section 208 of the E-Government Act of 2002 (44 USC 3601).

The GHCN-Daily Quality Control Flags shown below are displayed as superscripts with the data. For more Information on Global Historical Climatology Network - Daily and flags, see:
<http://www.ncdc.noaa.gov/oa/climate/ghcn-daily/>
and

Comprehensive Automated Quality Assurance of Daily Surface Observations.

Durre, Imke, Matthew J. Menne, Byron E. Gleason, Tamara G. Houston,

Russell S. Vose, 2010: J. Appl. Meteor. Climatol., 49, 16151633.

doi: 10.1175/2010JAMC2375.1

Blank = Passed All checks

D = failed duplicate check

G = failed gap check

I = failed internal consistency check

K = failed streak/frequent-value check

L = failed check on length of multiday period

M = failed megaconsistency check

N = failed naught check

O = failed climatological outlier check

R = failed lagged range check

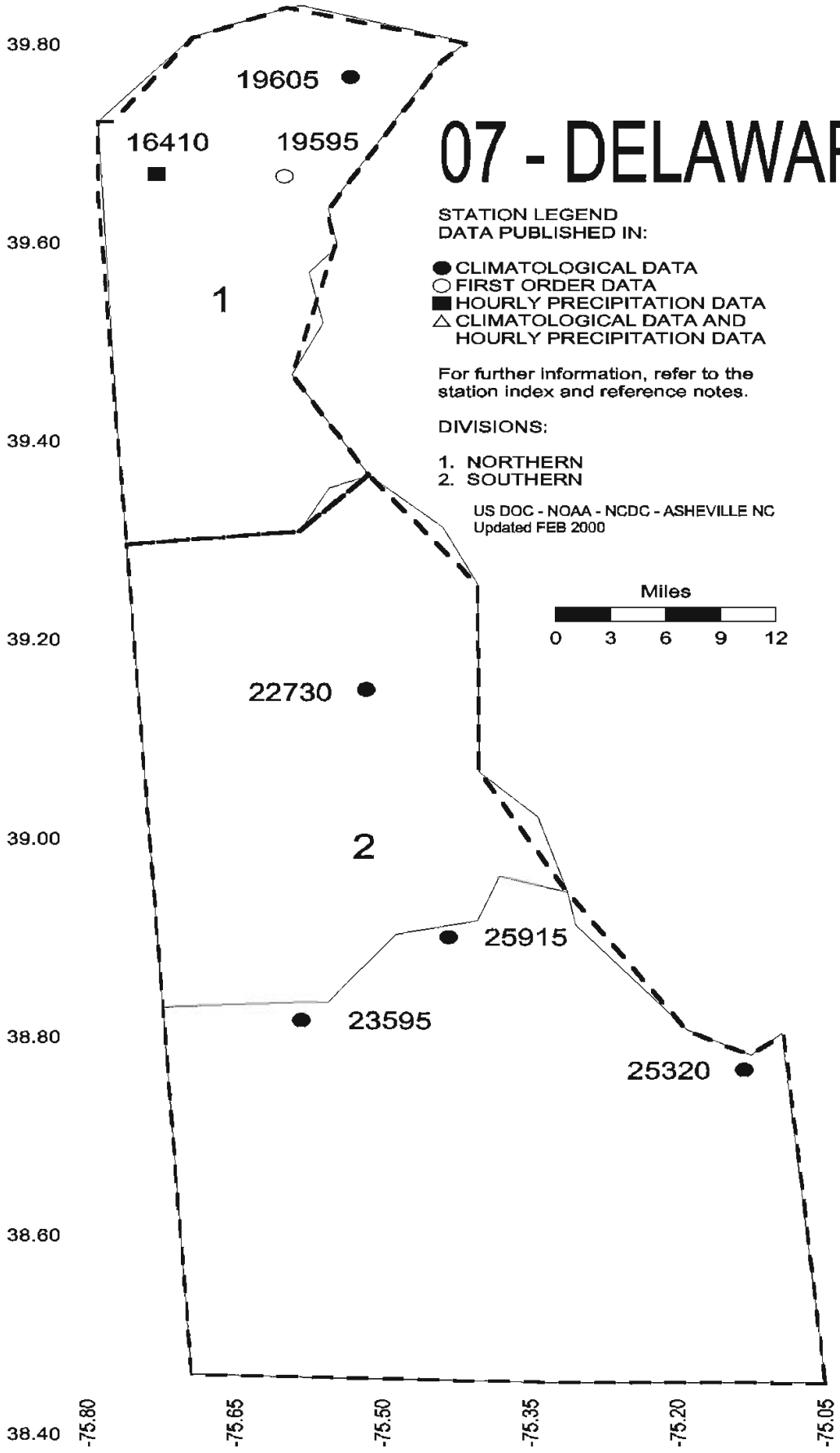
S = failed spatial consistency check

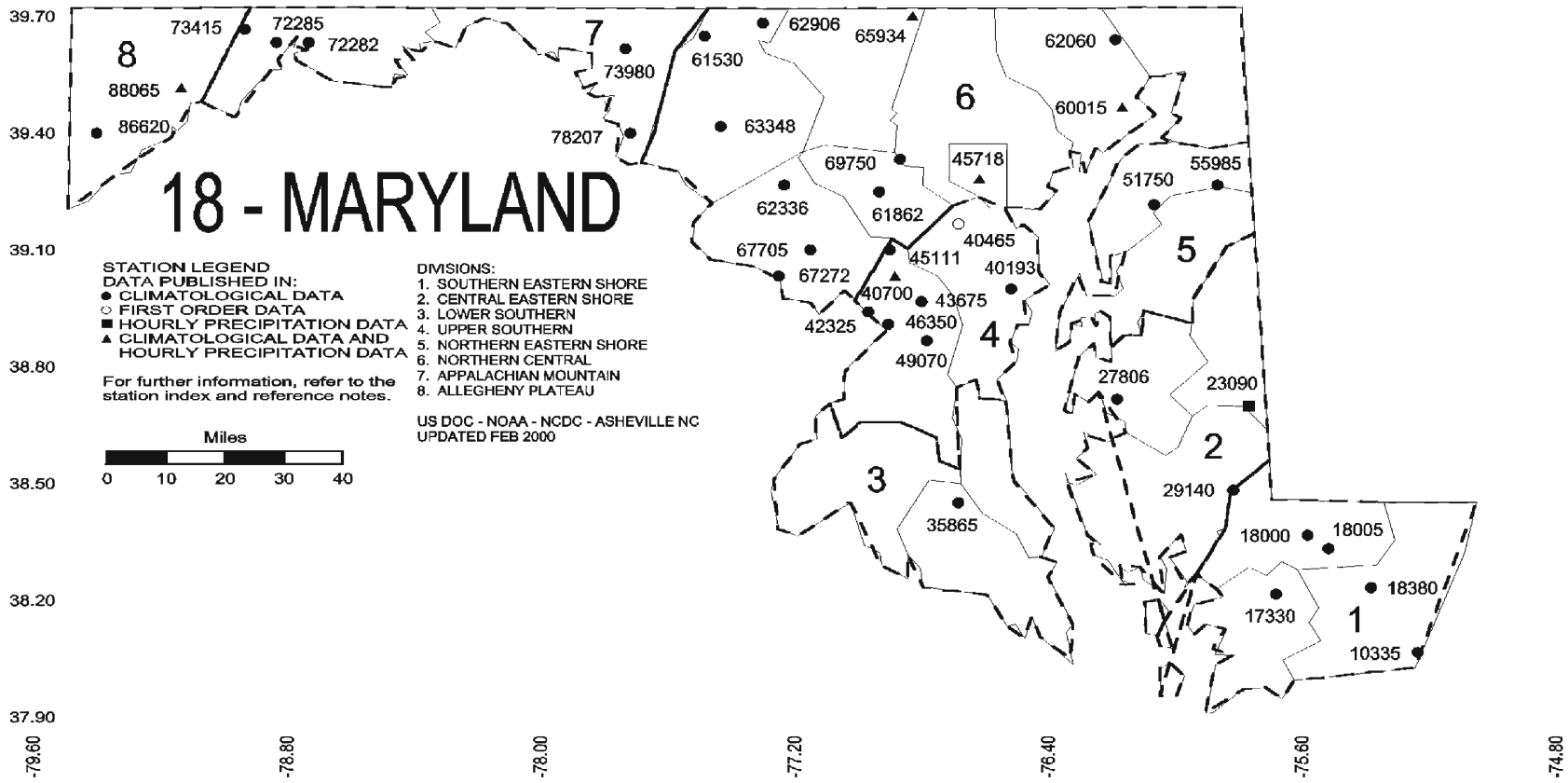
T = failed temporal consistency check

W = temperature too warm for snow

X = failed bounds check

07 - DELAWARE





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

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.

For Information Call:

(828) 271-4800 Option 2

(828) 271-4010 (TDD)

(828) 271-4876 (Fax)

NOAA\National Climatic Data Center
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001

PRSRT STD
POSTAGE & FEES PAID
United States Department of Commerce
NOAA Permit No. G-19

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300
ADDRESS CORRECTION REQUESTED

To change your address, please return a copy of the mailing label along with your new address to:

NOAA\National Climatic Data Center
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001

Customer Services Number: (828) 271-4800, option 2
TDD : (828) 271-4010
Fax number: (828) 271-4876

NCDC now offers an annual online subscription for the *Climatological Data* publication. When you purchase this subscription service, you will have **immediate online access** to all previous Climatological Data publications. Your subscription is valid for one year after purchase.

The total cost is \$42 for online delivery (including back issues).

To order this and other subscriptions online with your credit card, go to:

<http://www.ncdc.noaa.gov/oa/mpp/> and choose subscription.