

# CLIMATOLOGICAL DATA

## MARYLAND AND DELAWARE

DECEMBER 1983

VOLUME 87      NUMBER 12



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28801

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# TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND AND  
DELAWARE  
DECEMBER 1983

MARYLAND  
HIGHEST TEMPERATURE 68  
LOWEST TEMPERATURE -20  
GREATEST TOTAL PRECIPITATION 8.95  
LEAST TOTAL PRECIPITATION 2.97  
GREATEST 1 DAY PRECIPITATION 3.11  
GREATEST TOTAL SNOWFALL 14.5  
GREATEST DEPTH OF SNOW OR ICE 5

DELAWARE  
HIGHEST TEMPERATURE 67  
LOWEST TEMPERATURE -7  
GREATEST TOTAL PRECIPITATION 9.99  
LEAST TOTAL PRECIPITATION 5.00  
GREATEST 1 DAY PRECIPITATION 3.00

DECEMBER 12  
DECEMBER 26  
  
DECEMBER 13  
DECEMBER 26+

DECEMBER 13+  
DECEMBER 25  
  
DECEMBER 12

2 STATIONS  
MC HENRY 2 NW  
ROYAL OAK 2 SSW  
MERRILL  
SOLOMONS  
FROSTBURG 2  
2 STATIONS

2 STATIONS  
WILMINGTON WSO AP R  
WILMINGTON PORTER RESVR  
LEWES  
NEWARK UNIVERSITY FARM

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND  
DELAWARE  
DECEMBER 1983

STATION	TEMPERATURE (°F)											PRECIPITATION (IN)																
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW SLEET									
											90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
MARYLAND																												
SOUTHERN EASTERN SHORE 01																												
ASSATEAGUE STATE PARK	49.7	32.1	40.9		64	1	14	31	740	0	0	2	1	6	0	4.51		1.07	4	T	T		8	3	1			
PRINCESS ANNE	48.4	30.7	39.0	-1.1	68	12	4	26+	829	0	0	2	1	0	5.62	2.22	2.07	13				8	4	3				
SALISBURY	47.8	30.2	39.0	-1.3	67	12	5	25	798	0	0	4	1	6	4.69	1.07	1.28	13				8	4	3				
SALISBURY FAA AP	49.0	31.1	40.1	-1.3	68	12	5	25	768	0	0	4	1	9	4.61	.90	1.13	22				7	5	3				
SNOW HILL 4 N	48.0	28.8	38.4	-1.1	65	14	3	26	817	0	0	4	1	8	4.65	.94	1.13	22				7	3	3				
--DIVISIONAL DATA-->																												
CENTRAL EASTERN SHORE 02																												
CAMBRIDGE WTR TRMT PL	46.0	29.1	37.6	-1.1	64	12	0	25	843	0	0	4	1	7	1	8.90	5.19	2.80	13				8	5	4			
DENTON 2 E	45.0	28.0	36.5	-1.3	67	12	3	25	878	0	0	7	1	8	5.94	2.42	1.75	13				6	5	2				
ROYAL OAK 2 SSW	44.0	29.4	36.7	-2.2	61	12	4	25	871	0	0	6	1	7	8.95	5.21	2.68	13				7	5	3				
VIENNA	46.9	29.2	38.1	-1.5	66	12	5	25	827	0	0	6	1	7	5.34	1.77	1.77	13				6	4	2				
--DIVISIONAL DATA-->																												
LOWER SOUTHERN 03																												
LA PLATA 1 W	42.5	25.9	34.2	-3.7	62	12	1	26	945	0	0	7	2	4	0	5.31	1.89	1.37	13				6	4	3			
MECHANICVILLE 1 SE	47.3	35.1	41.2		56	15+	1	31	730	0	0	2	8	0	3.59		1.10	12	M			7	3	1				
OWINGS FERRY LANDING																												
PATUXENT RIVER	45.3	31.1	38.2		62	6	6	26+	821	0	0	5	1	6	0	7.12		2.95	12				7	5	2			
SOLOMONS					60	15+	2	22		0	0	1	1	1	0	5.88		3.11	13	M			4	2	1			
--DIVISIONAL DATA-->																												
UPPER SOUTHERN 04																												
ANNAPOLIS POLICE BRKS	42.7	28.4	35.6		60	12	1	25	904	0	0	7	1	9	0	8.19		2.25	13				7	5	4			
BALTIMORE WSO AP	40.5	25.9	33.2	-3.3	60	14	0	25	979	0	0	8	1	1	6.72	3.32	1.44	12				6	6	4				
BELTSVILLE	40.9	25.9	32.4	-2.9	59	15	1	27	1001	0	0	6	2	3	6.49	3.15	1.28	13				9	6	3				
COLLEGE PARK	41.5	26.8	34.2	-3.1	59	15	2	26	946	0	0	6	2	1	6.70	3.32	1.28	13				9	5	4				
DALECARLIA RESVR D C	41.5	24.8	33.2	-4.2	58	14	-1	25	982	0	0	7	2	3	6.64	3.15	1.81	13				8	5	4				
GLENN DALE BELL STN	41.9	23.2	32.6	-4.1	60	14	-3	25	1000	0	0	7	2	4	6.67	3.28	1.70	13				8	5	3				
LAUREL 3 W	41.6	24.0	32.9	-4.0	59	14	0	25	986	0	0	7	2	5	7.56	4.22	2.01	13				7	6	5				
NATIONAL ARBORETUM D C	41.9	25.3	33.6	-4.9	58	15	0	25	963	0	0	5	2	2	6.61	3.25	1.55	4				7	6	3				
UPPER MARLBORO 3 NNW	43.2	24.4	33.8		60	15+	2	25	963	0	0	6	2	3	5.96	2.57	1.49	13				7	6	3				
--DIVISIONAL DATA-->																												
NORTHERN EASTERN SHORE 05																												
CENTREVILLE	41.9	27.1	34.5		62	12	1	21		0	0	2	1	6	0	8.41		2.30	13	M			4	3	3			
CHESTERTOWN					62	12	2	25	938	0	0	7	1	9	0	8.09	4.22	2.67	12				6	6	4			
MILLINGTON 2 NNW																												
--DIVISIONAL DATA-->																												
NORTHERN CENTRAL 06																												
ABERDEEN PHILLIPS FLD					58	13+	1	23	+	0	0	4	1	2	0	8.41							5	3	3			
BALTIMORE WSO CI	40.3	29.7	35.0	-4.3	56	14+	6	25	924	0	0	8	1	6	0	7.14	3.36	1.79	12				6	6	5			
BENSON POLICE BARRACKS	41.1	22.3	31.7	-3.4	58	12	-5	25	1026	0	0	8	2	2	8.76	4.77	2.10	12				8	5	5				
BOYDS 2 NW	38.2	24.9	31.6		54	15	-4	25	1030	0	0	8	2	2	6.50		1.71	14				7	5	2				
CATOCTIN MOUNTAIN PARK	34.3	20.7	27.5		52	14	-1	25	1156	0	0	1	3	2	3	6.80		2.13	13				7	5	3			
CLARKSVILLE 3 NNE	39.9	23.6	31.8		58	14	-4	25	1022	0	0	7	2	4	2	6.53		1.88	13				7	5	3			
CONOWINGO DAM	39.6	25.4	32.5	-1.6	57	12	2	26	1001	0	0	6	2	3	0	7.61	3.74	3.07	12				6	5	4			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

MARYLAND AND  
DELAWARE  
DECEMBER 1983

STATION	TEMPERATURE (°F)											PRECIPITATION (IN)										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW SLEET			NO. OF DAYS			
									MAX		MIN					TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE	
									90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW										
DAMASCUS 2 SW	37.2	23.8	30.5		57 14	-5 25	1066.1	0	0	10 22 3	6.08		1.96 13	T	T		7 5 3					
EMMITSBURG 2 SE	38.9	23.8	31.4		55 14	-4 25	1066.6	0	0	9 24 1	5.96		2.07 13	T	T	3.0	8 4 2					
FREDRICK POLICE BRKS	39.3	23.7	32.5		56 15+	-4 25	1066.0	0	0	9 19 2	5.67		2.01 13	T	T		7 4 2					
PARKTON 2 SW	37.1	21.9	29.5		56 14	-4 25	1093	0	0	10 26 3	7.19		1.64 12	T	T		6 5 4					
TOWSON	40.0	22.3	32.2		56 14+	-4 25	1093	0	0	9 22 2	7.78	3.96	2.01 13	T	T		6 5 4					
UNIONVILLE	38.9	22.7	30.8		55 15+	-5 25	1066.2	0	0	9 24 1	6.13	2.83	2.05 13	T	T		7 4 3					
WESTMINSTER POLICE BRK	38.3	24.4	31.4	M	55 14	-5 25	1066.8	0	0	7 19 2	6.54		1.97 13	T	T		8 5 1					
WOODSTOCK	39.4	24.3	31.9	M	59 14	-3 25	1029.1	0	0	7 24 2	6.64	3.12	1.85 13	T	T		6 6 3					
-- DIVISIONAL DATA -->			31.5	-3.8							6.87					.6						
APPALACHIAN MOUNTAIN 07																						
CUMBERLAND 2	38.7	21.0	29.9	-4.4	57 14	-8 25+	1088.1	0	0	9 25 2	4.20	1.56	.98 4			3.0	3 29+ 8 5 0					
FROSTBURG 2	31.0	17.0	24.0		49 15+	-16 25	1264	0	0	15 27 4	4.99		1.09 7			14.5	5 26+ 10 5 1					
HAGERSTOWN	37.1	23.8	30.5	-3.7	55 14	-6 25	1066.2	0	0	9 22 3	5.92	3.06	1.70 13		T	1.0	7 6 1					
HANCOCK FRUIT LAB	38.0	22.6	30.3	-2.6	55 15+	-5 25	1066.7	0	0	9 24 1	4.68	2.09	.97 12			1.0	1 27 7 5 0					
-- DIVISIONAL DATA -->			28.7	-5.0							4.95					6.2						
ALLEGHENY PLATEAU 08																						
MC HENRY 2 NW	29.4	15.1	22.3		55 15	-20 26+	1319	0	0	16 27 6	4.90		.90 7			14.0	5 25+ 10 4 0					
SAVAGE RIVER DAM	33.2	19.5	26.4	-3.8	50 15+	-12 26+	1190	0	0	13 26 3	4.25	1.57	.69 29			2.0	2 31+ 9 5 0					
-- DIVISIONAL DATA -->			24.4	-5.0							4.58	.93				8.0						
DELAWARE																						
NORTHERN 01																						
MIDDLETOWN 1 WSW	43.8	25.8	34.8		60 14+	-6 25	929	0	0	7 20 2	6.74		1.97 13			.0	6 5 3					
NEWARK UNIVERSITY FARM	41.1	23.5	32.3	-3.3	59 15+	-6 25	1007	0	0	8 22 2	8.89	5.36	3.00 12			.0	8 4 3					
WILMINGTON WSO AP	40.8	23.4	32.1	-3.4	64 12	-7 25	1013	0	0	8 23 3	6.80	3.26	1.85 12		T	.0	7 5 5					
WILMGTN PORTER RESVR	40.7	24.0	32.4	-2.7	62 12	-1 25	1008	0	0	7 22 3	9.99	6.25	2.80 12			.0	7 6 6					
-- DIVISIONAL DATA -->			32.9	-2.8							8.11	4.56				.0						
SOUTHERN 02																						
BRIDGEVILLE 1 NW	45.8	27.3	36.6	-1.5	67 12	3 25	875	0	0	7 20 0	5.61	1.92	1.32 13		T	T	7 4 3					
DOVER	45.3	28.7	37.0	-1.4	61 14	1 25	861	0	0	4 18 0	5.94	2.41	1.39 4			.0	6 5 3					
GEORGETOWN 5 SW	46.1	27.4	36.8	-1.0	67 13	3 25	868	0	0	5 22 0	5.19	1.60	1.48 13			.0	8 4 1					
LEWES	46.6	30.6	38.6	.1	65 14	3 25	809	0	0	5 16 0	5.00	1.18	1.10 22			.0	9 4 3					
MILFORD 2 WSW	46.4	28.4	37.4	-.5	65 12	2 25	846	0	0	5 18 0	5.43	1.62	1.11 13		T	T	8 4 2					
-- DIVISIONAL DATA -->			37.3	-1.0							5.43	1.70				.0						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION (INCHES)

MARYLAND AND  
DELAWARE  
DECEMBER 1983

STATION	TOTAL	DAY OF MONTH														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MARYLAND																
SOUTHERN EASTERN SHORE 01																
ASSATEAGUE STATE PARK	4.51			.08	1.07		.16	.07				.43	.89	.02	.44	
PRINCESS ANNE	5.62	.01		.03	1.11		.21	.12	.01			.22	2.07		.11	
SALISBURY	4.69			.03	1.04		.24	.11				.23	1.28		.14	
SALISBURY FAA AP	4.61	T		.03	1.00		.25				T	.52	1.01	T	.13	
SNOW HILL 4 N	4.65	T		.03	1.08		.21	.08				.24	1.05	T	.31	
CENTRAL EASTERN SHORE 02																
CAMBRIDGE WTR TRMT PL	8.90			.01	1.17		.33	.48				.02	2.05	2.80	.10	.02
DENTON 2 E	5.94			T	1.13		.36					.68	1.75	.02	.05	
ROYAL OAK 2 SSW	8.95			T	1.26		.38	.03				2.48	2.68	.14	.02	
VIENNA	5.34			.04	.88	.03	.25	.28				.58	2.04	.02	.09	
LOWER SOUTHERN 03																
LA PLATA 1 W	5.31			.01	1.09		.30					.45	1.37			
MECHANICSVILLE 1 SE	M 3.59			.25	.30	.25	.52					1.10	.90	.09	.18	
OWINGS FERRY LANDING	M 7.12															
PATUXENT RIVER	M 7.12			.06	1.10	.26						T	2.95	.81	T	.05
SOLOMONS	M 5.88			*	*	1.16	T	.38	T			*	.12	3.11	.11	.02
UPPER SOUTHERN 04																
ANNAPOLIS POLICE BRKS	8.19			T	1.03		.33	.11				.04	2.05	2.25	.06	
BALTIMORE WSO AP	R 6.72		.03	T	1.04		.56					T	1.44	1.38		
BELTSVILLE	6.49			.05	1.10	.02	.17	.55				.06	.21	1.28	.75	
COLLEGE PARK	6.70			.02	1.07	T	.30	.39				.03	.24	1.28	1.20	
DALECARLIA RESVR D C	6.64			.05	1.09	.20	.62		.11			.04	.34	1.81	.02	
GLENN DALE BELL STN	6.67				1.10		.49	.38	T			.08	.65	1.70	.25	
LAUREL 3 W	7.56		.06	.01	1.19		1.01			T			1.13	2.01		
NATIONAL ARBORETUM D C	6.61			.02	1.55	.03	.03	.72					.14	1.33	.69	
UPPER MARLBORO 3 NNW	5.96				1.03		.04	.53				.04	.14	1.49	.55	
NORTHERN EASTERN SHORE 05																
CENTREVILLE	M 8.09				1.20	.40						T	1.90	2.30	.07	
CHESTERTOWN	M 8.09		.01	.04	1.15		.54		T				2.67	1.36	.02	.01
MILLINGTON 2 WNW	M 8.09															
NORTHERN CENTRAL 06																
ABERDEEN PHILLIPS FLD	8.41			*	*	1.25	.35	.26	T			*	2.10	2.05	.02	
BALTIMORE WSO CI	R 7.14		.04	.01	1.08		.67						1.79	1.13		
BENSON POLICE BARRACKS	8.76			.12	1.20	.02	.36	.29	.04			.03	2.10	1.84	.05	
BOYDS 2 NW	5.50				1.18		.55						.35		1.71	
BRIGHTON DAM	7.40		T		1.10		.60						.80	2.60		
CATOCTIN MOUNTAIN PARK	6.80			.03	.81		.41	.22					.88	2.13	.07	
CLARKSVILLE 3 NNE	6.53				1.10		.49	.15	T			.06	.53	1.88	.04	
CONOWINGO DAM	7.61		.12	.03	1.10	.02	.61					.05	3.07	1.58	.03	
DAMASCUS 2 SW	6.08		T	.04	1.04		.58	.06	T			.12	.30	1.96	.03	
EMMITTSBURG 2 SE	5.96			.05	.83		.46	.10	T				.32	2.07	.20	
FREDERICK POLICE BRKS	5.67			.03	.77		.49	.16					.43	2.01	.07	
FREDERICK 3 E	6.52			.04	.91	T	.10	.44					.01	1.65	1.05	T
PARKTON 2 SW	7.19		.06	.03	1.11		.46		.01	.09			1.64	1.56		
POTOMAC FILTER PLANT	6.11		.03		1.20		.82			.05			.52	1.25		
TOWSON	7.78			.06	1.30		.58	.26					1.83	2.01	.04	
UNIONVILLE	6.13			T	1.00		.46						.27	2.05	.03	
WESTMINSTER POLICE BRK	M 6.54			.05	.88		.46	.15					.64	2.57	.26	T
WOODSTOCK	6.64			.02	1.11		.52	.07	T				.80	1.85		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION (CONT)

MARYLAND AND  
DELAWARE  
DECEMBER 1983

STATION	DAY OF MONTH															
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MARYLAND																
SOUTHERN EASTERN SHORE 01																
ASSATEAGUE STATE PARK							.87			T			.38	.10		
PRINCESS ANNE							1.10						.62	.01		
SALISBURY							1.06						.56			
SALISBURY FAA AP						.01	1.13		T				.53			
SNOW HILL 4 N				T			1.13		.04				.48	T		
CENTRAL EASTERN SHORE 02																
CAMBRIDGE WTR TRMT PL							1.10						.82			
DENTON 2 E							.97		T				.98			
ROYAL OAK 2 SSW							.94		T				.97			
VIENNA							1.13									
LOWER SOUTHERN 03																
LA PLATA 1 W						T	1.11						.93			
MECHANICSVILLE 1 SE																
OWINGS FERRY LANDING																
PATUXENT RIVER						.17	.85		T				.01			
SOLOMONS							.95	.03					.86			
UPPER SOUTHERN 04																
ANNAPOLIS POLICE BRKS							1.47						.85			
BALTIMORE WSO AP					T	.06	1.26		T				.91			
BELTSVILLE							1.21	.10					.05	.93	.01	
COLLEGE PARK							1.11	.12					.06	.88		
DALECARLIA RESVR D C							1.36						1.00			
GLENN DALE BELL STN							1.20	.02					.72	.08		
LAUREL 3 W						.11	1.08						.96			
NATIONAL ARBORETUM D C							.95							1.15		
UPPER MARLBORO 3 NNW							1.10	.08						.96		
NORTHERN EASTERN SHORE 05																
CENTREVILLE																
CHESTERTOWN						T	1.33						.96			
MILLINGTON 2 WNW																
NORTHERN CENTRAL 06																
ABERDEEN PHILLIPS FLD							1.36						1.02			
BALTIMORE WSO CI							1.40						1.02			
BENSON POLICE BARRACKS							1.58						1.10	.03		
BOYDS 2 NW							.86						.75	.10		
BRIGHTON DAM						.20	1.20						.90			
CATOCTIN MOUNTAIN PARK							1.13						1.09			
CLARKSVILLE 3 NNE							1.25		.02			.01	.97	.06		
CONOWINGO DAM									T				1.00			
DAMASCUS 2 SW						T	1.25						.70			
EMMITSBURG 2 SE							1.28		T				.65			
FREDRICK POLICE BRKS							1.04						.67			
FREDERICK 3 E							1.04	.33	T				.08	.85		
PARKTON 2 SW							1.44		T				.79	T		
POTOMAC FILTER PLANT						.16	1.13						.95			
TOWSON						.03	1.53						.08			
UNIONVILLE							1.35		T				.85			
WESTMINSTER POLICE BRK							.68						.80	.03		
WOODSTOCK							1.31						.96			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION (INCHES)

MARYLAND AND  
DELAWARE  
DECEMBER 1983

STATION	TOTAL	DAY OF MONTH														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>MARYLAND</b>																
APPALACHIAN MOUNTAIN 07																
CUMBERLAND 2	4.20			.03	.98	.08	.20	.50			.02					
EDGEMONT	6.37			.02	.67	.06	.01	.48					.20	.65	.05	
FROSTBURG 2	4.99	T	.01	.07	.73	.24	T	1.09	.02	.01	.05		.05	2.12	.94	
HAGERSTOWN	5.92		T	T	.85	T	.63						.40	.72	.05	T
HANCOCK FRUIT LAB	4.68			T	.81		.63	.16					.95	1.70	.30	
				T			.63						.97	.49	.04	
<b>ALLEGHENY PLATEAU 08</b>																
MC HENRY 2 NW	4.90	T	T	.26	.66	.06	.25	.90	.05	.02	.14		.08	.27	T	T
MERRILL	2.97		T	.07	.70	.02	.23	.28	.02				.45	.22		
SAVAGE RIVER DAM	4.25	T	T	.08	.59	.31	.33	.59	T	T	.08	T	.51	.36	.01	T
<b>DELAWARE</b>																
<b>NORTHERN 01</b>																
MIDDLETOWN 1 WSW	6.74			.07	1.21		.33	.06								
NEWARK UNIVERSITY FARM	8.89		.19	*	1.05		.33	.13					.82	1.97	.08	
WILMINGTON WSO AP	6.80	R	.13	.05	1.20		.42						3.00	1.72	.13	
WILMGTN PORTER RESVR	9.99		.47		1.47		1.57				.02	T	1.85	1.04	.01	
													2.80	1.07	.01	
<b>SOUTHERN 02</b>																
BRIDGEVILLE 1 NW	5.61			.03	1.04		.35	.34								
DOVER	5.94			.03	1.39		.49	.09					.30	1.32	.07	.06
GEORGETOWN 5 SW	5.19				.92	.02	.40	.40					.69	.93	.02	.09
LEWES	5.00			.01	1.02		.20	.20					.10	1.48	.05	.10
MILFORD 2 WSW	5.43			T	.87		.38	.47					.42	.73	.01	.18
													.46	1.11	.04	.08

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION (CONT)

MARYLAND AND  
DELAWARE  
DECEMBER 1983

STATION	DAY OF MONTH															
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
APPALACHIAN MOUNTAIN CUMBERLAND 2 EDGEMONT FROSTBURG 2 HAGERSTOWN HANCOCK FRUIT LAB 07							.79 .90 .58 .85 .96	.03 .05 .12 T	.13 .03 .15 .02 .04	T T .10 T			T .02 T .61 .53	.54 1.02 .57 T	.02	T
ALLEGHENY PLATEAU 08 MC HENRY 2 NW MERRILL SAVAGE RIVER DAM	.05	.03	T	T	.03 T .01		.74 .51 .59	.15 T	.27 .17 .11	.07 T	T		T .18 T	.81 .04 .69	.06 T	T
DELAWARE																
NORTHERN MIDDLETOWN 1 WSW NEWARK UNIVERSITY FARM WILMINGTON WSO AP WILMGTON PORTER RESVR 01			T				1.20 1.40 1.04 1.50	.05 .02		T			.95 .92 1.04 1.10	T		
SOUTHERN BRIDGEVILLE 1 NW DOVER GEORGETOWN 5 SW LEWES MILFORD 2 WSW 02							1.20 1.07 .97 1.10 1.03	T .40	T				.86 1.11 T 1.00 .89	.04 .03 .75 .13 .10		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
DECEMBER 1983

STATION	DAY OF MONTH																															AVERAGE		
	1	2	3	4	5	6	7	8	9	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 STATE PARK	MAX 64	59	52	59	56	55	54	48	50	51	53	60	58	59	59	58	55	46	45	33	40	56	53	35	31	32	46	54	54	34	33	49.7		
	OBS																																	
	MIN 30	27	39	45	38	39	40	32	29	35	36	47	49	47	50	36	37	30	30	24	26	39	29	22	15	15	20	23	33	18	14	32.1		
	OBS		28																															
PRINCESS ANNE																																		
	MAX 52	45	49	58	52	59	63	46	50	58	55	68	65	61	62	52	49	44	38	33	39	61	48	33	16	22	34	60	58	33	36	48.4		
	MIN 28	22	40	30	32	51	39	22	23	36	23	47	50	44	51	41	31	22	30	21	18	24	28	8	4	4	9	13	33	20	14	27.7		
	OBS																																	
SALISBURY																																		
	MAX 51	45	49	54	53	60	59	55	49	59	53	67	64	62	62	54	45	43	38	32	38	61	47	33	16	20	35	60	54	33	30	47.8		
	MIN 31	26	40	39	35	45	38	28	24	36	34	47	50	45	51	41	36	25	30	21	22	39	29	11	5	6	12	26	33	18	12	30.2		
SALISBURY FAA AP																																		
	MAX 53	50	51	60	55	65	52	47	52	59	55	68	65	64	64	55	47	45	40	33	47	63	45	32	16	23	37	63	48	31	33	49.0		
	MIN 31	25	42	42	36	47	32	27	24	38	36	54	51	48	50	36	28	28	28	23	25	45	31	10	5	9	17	32	31	19	15	31.1		
SNOW HILL 4 N																																		
	MAX 51	46	50	59	54	57	60	45	50	57	57	64	62	65	61	54	47	43	38	33	39	61	51	32	15	22	35	57	58	33	31	48.0		
	MIN 29	21	37	40	32	45	38	23	21	33	29	48	51	43	50	37	33	22	31	21	23	38	29	14	5	3	11	24	33	18	12	28.8		
CENTRAL EASTERN SHORE 02																																		
CAMBRIDGE WTR TRMT PL																																		
	MAX 50	45	49	50	49	56	59	43	47	54	53	64	60	58	57	53	52	42	41	34	34	55	46	32	22	21	35	55	52	33	25	46.0		
	MIN 32	27	38	37	36	43	38	28	24	37	37	44	47	41	49	37	38	25	19	21	20	33	27	22	0	3	12	25	30	18	14	29.1		
DENTON 2 E																																		
	MAX 45	47	46	49	50	61	58	40	47	55	61	67	61	59	58	52	45	41	35	29	34	57	42	28	13	20	32	58	47	30	29	45.0		
	MIN 29	29	39	35	35	43	35	28	24	36	32	45	51	42	50	38	35	24	25	19	17	33	26	10	3	5	10	28	16	16	9	28.0		
ROYAL OAK 2 SSW																																		
	MAX 49	43	49	48	52	55	57	43	47	56	50	61	54	57	56	52	46	41	36	30	33	54	44	29	14	21	33	53	44	31	27	44.0		
	MIN 34	27	40	36	34	43	38	32	25	37	33	45	48	41	51	40	37	25	26	20	18	32	26	10	4	6	16	25	31	17	13	29.4		
VIENNA																																		
	MAX 51	44	47	52	51	57	59	44	48	58	56	66	60	59	60	55	46	42	40	30	38	57	46	32	23	21	32	55	56	39	29	46.9		
	OBS 65																																	
	MIN 32	26	24	38	34	44	35	31	25	40	34	45	49	44	50	39	36	25	24	21	21	38	28	15	5	6	6	28	33	18	11	29.2		
	OBS																																	
LOWER SOUTHERN 03																																		
LA PLATA 1 W																																		
	MAX 47	43	46	44	61	56	56	45	45	56	48	62	48	56	55	52	43	41	35	30	32	51	39	30	14	21	34	34	36	28	29	42.5		
	MIN 30	23	39	36	31	39	31	25	24	34	30	29	45	37	40	31	32	22	24	22	20	31	26	7	3	1	13	29	28	15	6	25.9		
MECHANICSVILLE 1 SE																																		
	MAX 51	44	47	47	50	52	52	45	47	56	54	50	52	56	56	52	48	42	39	37	31													
	MIN 38	29	42	39	40	42	38	30	29	40	35	47	45	42	48	40	35	29	22	30	21													
OWINGS FERRY LANDING																																		
	MAX																																M	
	MIN																																	M
PATUXENT RIVER																																		
	MAX 50	48	49	50	53	62	47	48	50	56	51	61	52	61	55	55	46	42	39	30	41	56	39	34	17	23	38	51	41	27	31	45.3		
	MIN 34	39	40	39	38	47	31	30	27	41	40	46	49	43	45	40	31	30	28	21	24	39	29	6	6	6	21	35	26	18	15	31.1		
SOLOMONS																																		
	MAX 53	50		49	50	60	44	45		55	60	50	60	53		54	38	29	53	54													M	
	MIN 38	28		31	31	35	31	29		24	45	41	44	38		28	21	21	20	26													M	
UPPER SOUTHERN 04																																		
ANNAPOLIS POLICE BRKS																																		
	MAX 50	42	48	47	50	52	52	40	46	56	49	60	51	54	55	52	45	41	36	30	32	51	42	37	10	31	32	36	36	30	31	42.7		
	MIN 32	27	36	36	26	44	37	29	26	37	37	45	47	41	49	35	34	25	27	21	20	32	25	8	1	4	16	28	30	15	10	28.4		
BALTIMORE WSO AP																																		
	MAX 44	40	45	47	49	53	46	41	47	53	47	55	51	60	55	48	42	39	34	28	31	49	35	27	12	21	32	35	36	23	31	40.5		
	MIN 30	23	38	35	33	40	32	27	25	33	35	44	47	41	39	32	27	22	24	20	17	31	24	4	0	2	10	29	20	12	8	25.9		
BELTSVILLE																																		
	MAX 51	45	41	45	47	52	53	40	43	47	53	47	53	49	59	54	48	42	42	33	28	42	42	30	22	10	22	34	36	35	22	40.9		
	MIN 26	21	28	35	32	37	33	27	23	25	31	35	42	38	37	29	29	20	21	18	17	18	23	21	21	31	1	19	33	14	4	23.9		
	OBS																																	
COLLEGE PARK																																		
	MAX 53	46	43	45	47	51	53	41	44	47	55	48	52	49	59	55	50	43	42	35	28	42	43	32	22	14	22	35	36	34	22	41.5		
	MIN 31	23	36	35	33	40	36	30	25	34	32	42	45	38	46	32	31	22	25	20	18	21	24	20	3	2	12	21	32	14	7	26.8		
DALECARLIA RESVR D C																																		
	MAX 48	43	45	45	53	50	52	39	45	55	46	52	49	58	55	53	45	41	39	28	29	52	40	30	12	23	33	34	36	30	27	41.5		
	OBS																																	
	MIN 31	26	24	35	33	32	30	27	26	34	26	42	47	35	45	27	33	21	27	8	18	20	24	7	-1	3	13	26	27	9	13	24.8		
	OBS																																	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
DECEMBER 1983

STATION	DAY OF MONTH																															AVERAGE		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
GLENN DALE BELL STN	MAX MIN	52 23	43 16	42 33	45 31	54 28	52 41	52 34	45 21	48 19	52 28	49 23	42 52	48 43	60 34	54 25	53 25	49 15	39 15	35 19	30 14	28 14	45 26	41 22	28 16	20 -3	15 15	36 15	34 22	35 26	31 9	32 10	41.9 23.2	
LAUREL 3 W	MAX MIN OBS MIN OBS	45 28	47 22	45 34	48 29	52 32	54 41	47 27	45 28	47 26	55 29	46 30	46 40	51 42	59 36	55 39	50 31	43 26	41 20	34 19	29 15	30 13	46 30	39 21	26 10	10 0	21 11	33 12	48 26	44 15	25 11	30 8	41.6 24.2	
NATIONAL ARBORETUM D C	MAX MIN OBS MIN	52 33	45 23	43 26	46 34	49 35	51 36	53 36	40 28	43 24	47 24	56 31	51 32	51 45	51 46	58 46	53 33	53 30	43 22	43 23	36 19	29 17	40 17	43 24	33 22	24 0	12 11	23 5	35 21	37 30	37 14	23 8	41.9 25.3	
UPPER MARLBORO 3 NNW	MAX MIN	53 27	47 21	45 27	45 35	48 34	53 34	57 37	41 24	43 21	48 24	56 27	49 31	60 46	49 37	60 39	55 30	52 30	44 20	42 21	35 19	28 17	49 21	44 25	32 24	28 2	13 3	22 5	35 21	46 33	36 14	24 6	43.2 24.4	
NORTHERN EASTERN SHORE 05																																		
CENTREVILLE	MAX MIN	52 33	50 34	53 33	49 30	59 32	49 30	46 21	42 29	50 30	56 21	55 24	62 26	59 45	60 38	55 37	57 31	54 32	51 19	36 20	30 16	32 13												
CHESTERTOWN	MAX MIN	44 33	43 26	44 36	48 36	49 39	57 40	47 35	42 27	47 25	54 36	47 31	62 44	54 47	59 43	56 45	50 36	41 28	40 23	34 24	28 19	32 15	54 32	38 25	28 4	12 2	19 5	33 12	49 25	36 24	24 14	29 10	41.9 27.1	
MILLINGTON 2 NNW	MAX MIN																																	
NORTHERN CENTRAL 06																																		
ABERDEEN PHILLIPS FLD	MAX MIN	49 34	40 25		48 40	50 36	50 34	38 24	45 24	53 34	58 40	58 47	52 45	52 47	52 47	52 47	52 45			33 29	30 13	27 13	49 18											
BALTIMORE WSO CI	MAX MIN	44 33	41 31	44 38	48 35	50 42	53 46	46 34	41 32	47 33	56 40	46 37	56 45	51 49	56 47	55 47	50 40	43 33	37 28	33 24	26 20	30 18	49 30	35 23	28 9	12 6	20 8	32 15	34 29	36 20	20 14	30 14	40.3 29.7	
BENSON POLICE BARRACKS	MAX MIN OBS MIN	47 27	40 20	44 32	46 30	47 34	50 36	52 31	37 22	45 21	54 31	49 26	58 38	50 42	56 41	55 43	51 28	43 25	43 16	34 21	29 13	26 10	49 22	41 18	27 4	17 -5	19 -1	31 5	35 20	38 25	30 9	31 7	41.1 22.3	
BOYDS 2 NW	MAX MIN	46 32	37 22	42 33	40 32	48 35	49 39	49 31	41 27	44 26	52 35	47 32	45 41	47 41	49 41	54 45	49 35	41 20	37 20	38 24	25 15	25 15	37 24	40 19	25 3	8 -4	20 0	32 11	33 26	36 23	24 10	25 10	38.2 24.9	
CATOCTIN MOUNTAIN PARK	MAX MIN	38 25	32 22	37 22	36 29	44 34	46 37	46 26	36 25	39 26	45 35	39 30	43 35	45 39	52 36	49 42	45 30	32 22	32 19	30 18	19 9	19 12	41 9	40 19	29 0	2 -1	14 -5	24 8	32 21	36 18	19 5	21 6	34.3 20.7	
CLARKSVILLE 3 NNE	MAX MIN	44 27	41 20	41 36	44 33	51 29	50 33	51 31	41 27	46 22	53 32	46 26	53 42	48 38	58 45	55 45	49 28	43 27	39 17	36 22	27 17	26 12	43 25	38 21	26 3	10 -4	22 0	34 7	33 28	35 27	27 12	28 5	39.9 23.6	
CONOWINGO DAM	MAX MIN	48 31	39 24	42 34	46 34	46 40	53 39	47 30	38 26	45 24	50 32	45 28	57 42	50 44	52 44	52 37	46 32	39 28	36 21	32 23	26 18	33 13	48 29	36 22	27 3	12 4	18 2	30 10	35 27	35 22	33 11	33 11	39.6 25.4	
DAMASCUS 2 SW	MAX MIN	41 30	36 23	41 34	39 32	49 35	50 38	49 30	39 28	43 27	50 34	45 32	47 41	47 41	57 38	53 44	45 34	38 28	36 19	32 22	25 14	25 13	39 24	37 17	25 -1	7 -5	17 -1	32 10	31 25	33 19	19 8	25 6	37.2 23.8	
EMMITSBURG 2 SE	MAX MIN OBS MIN	44 32	36 19	42 31	39 32	48 36	47 39	52 32	37 29	44 25	52 33	48 29	45 37	48 42	55 41	54 43	50 32	41 25	37 17	34 23	35 13	25 12	35 23	40 17	25 3	19 -4	19 0	29 9	33 22	38 25	26 16	28 5	38.9 23.8	
FREDRICK POLICE BRKS	MAX MIN	45 36	38 26	43 35	41 32	50 39	49 38	52 36	42 28	44 29	52 35	52 34	48 40	51 43	56 45	56 40	52 37	43 30	39 21	36 25	27 16	25 16	37 23	39 19	26 5	7 -8	18 0	31 2	32 25	38 26	27 13	22 8	39.3 25.7	
PARKTON 2 SW	MAX MIN	42 25	36 19	41 32	42 32	46 39	50 40	42 28	36 26	43 23	51 29	41 28	52 40	47 43	56 42	54 32	46 29	38 22	35 17	31 19	25 9	25 9	46 25	32 17	22 -1	10 -4	18 -1	31 7	33 25	33 16	20 5	27 5	37.1 21.9	
TOWSON	MAX MIN	45 28	40 23	44 36	46 31	50 34	52 38	52 32	40 27	46 25	53 33	46 34	56 42	50 32	56 40	54 46	51 31	42 33	36 21	34 22	26 14	26 11	49 23	42 19	27 0	10 -4	20 10	30 9	34 25	32 20	22 10	29 8	40.0 24.3	
UNIONVILLE	MAX MIN	43 26	37 18	41 34	40 32	49 30	49 36	50 33	40 23	45 21	54 32	49 25	49 40	47 42	58 35	65 46	48 27	40 35	37 16	36 23	25 13	26 13	36 25	38 17	26 3	9 -3	18 11	32 7	32 25	35 20	25 10	27 4	38.9 24.7	
WESTMINSTER POLICE BRK	MAX MIN OBS	44 33	37 24	40 33	41 32	47 36	47 40	49 32	38 28	43 28	48 36	48 33	51 34	47 42	55 40	54 46	50 36	41 27	36 19	36 22	23 12	24 11	44 18	37 18	34 2	15 -5	11 0	29 6	34 25	36 24	24 9	24 9	38.3 24.4	
WOODSTOCK	MAX MIN	44 30	39 20	43 34	44 32	48 32	49 39	50 32	39 26	46 22	54 34	45 28	53 42	48 43	59 39	55 45	48 30	42 28	37 18	34 23	28 16	26 14	44 25	38 20	25 3	10 -3	20 0	33 16	33 25	34 24	24 11	30 6	39.4 24.3	

SEE REFERENCE NOTES FOLLOWING STATION INDEX  
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# DAILY TEMPERATURES (°F)

MARYLAND AND  
DELAWARE  
DECEMBER 1983

STATION	DAY OF MONTH																															AVERAGE			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
APPALACHIAN MOUNTAIN 07																																			
CUMBERLAND 2	MAX	39	39	41	46	51	51	46	40	44	54	44	47	47	57	55	46	39	38	32	29	30	37	33	24	6	22	30	38	38	26	31	38.7		
	MIN	22	22	32	32	33	30	25	26	29	31	34	41	36	36	35	27	19	19	16	16	18	15	10	-8	-8	3	19	26	7	4	21.0			
FROSTBURG 2	MAX	35	30	37	34	41	44	49	26	31	39	44	39	44	42	49	45	31	27	34	19	19	26	41	22	8	-4	15	22	40	22	10	31.0		
	MIN	29	18	16	28	29	35	23	21	19	22	29	28	38	35	35	29	21	18	17	11	9	10	6	7	-16	-15	-8	13	19	1	-1	17.0		
HAGERSTOWN	MAX	43	36	41	38	50	49	48	40	42	52	45	45	47	55	54	49	38	35	33	25	23	33	36	24	7	20	26	32	35	21	27	37.1		
	MIN	32	23	32	32	35	38	32	28	29	38	33	39	40	38	45	34	26	20	20	14	13	20	15	0	-6	-1	10	23	20	8	7	23.8		
HANCOCK FRUIT LAB	MAX	44	41	40	39	51	49	47	39	44	52	46	46	47	55	55	51	39	36	35	26	23	36	36	26	8	18	27	32	34	28	28	38.0		
	MIN	31	19	34	32	38	31	31	22	24	33	28	39	33	38	38	30	27	15	21	15	12	20	13	8	-5	1	12	27	24	6	3	22.6		
ALLEGHENY PLATEAU 08																																			
MC HENRY 2 NW	MAX	32	24	38	35	40	41	53	25	31	40	40	38	41	38	55	42	28	24	30	15	20	33	40	8	0	-6	12	28	42	18	6	29.4		
	MIN	21	16	20	27	32	35	20	20	20	25	28	30	36	33	33	25	18	12	11	9	8	10	5	-1	-20	-20	-6	2	16	-4	-3	15.1		
SAVAGE RIVER DAM	MAX	38	32	38	35	44	49	50	31	35	39	45	42	46	45	50	47	35	30	35	20	20	28	40	25	7	2	19	27	40	24	12	33.2		
	MIN	30	18	19	30	31	34	26	23	24	26	30	33	40	38	36	31	26	15	17	14	14	15	12	5	-1	-1	0	15	23	4	1	19.5		
DELAWARE																																			
NORTHERN 01																																			
MIDDLETOWN 1 WSW	MAX	48	41	44	49	48	53	59	39	46	56	54	58	60	60	57	51	46	45	36	29	30	55	45	28	8	15	33	50	54	31	29	43.8		
	OBS										***							***																	
	MIN	31	24	35	33	36	38	35	30	23	35	30	39	50	45	48	33	31	19	23	17	13	27	23	9	-6	-1	9	22	29	13	6	25.8		
	OBS										***							***																	
NEWARK UNIVERSITY FARM	MAX	45	43	43	47	53	52	55	40	47	55	52	59	58	58	59	48	41	39	38	34	29	52	44	26	12	20	18	33	20	27	28	41.1		
	OBS																																		
	MIN	25	34	33	34	34	32	33	28	23	23	32	39	51	44	46	31	29	20	20	15	12	24	22	0	-6	1	4	10	14	10	11	23.5		
	OBS																																		
WILMINGTON WSO AP	MAX	43	40	43	48	45	57	46	40	45	53	45	64	60	56	54	48	38	35	33	27	31	53	35	26	10	17	31	53	35	23	30	40.8		
	MIN	25	19	35	35	32	40	32	25	23	33	29	42	50	45	40	32	24	19	19	13	8	31	21	-5	-7	-2	8	27	20	8	5	23.4		
WILMINGTON PORTER RESVR	MAX	42	40	43	46	45	54	47	39	44	51	44	62	58	56	53	46	38	38	34	29	33	50	36	24	17	18	30	51	36	25	32	40.7		
	MIN	27	12	32	33	33	40	30	27	26	35	34	33	48	43	40	32	26	22	18	15	10	30	20	0	-1	0	11	25	22	11	9	24.0		
	OBS																																		
SOUTHERN 02																																			
BRIDGEVILLE 1 NW	MAX	48	42	45	52	50	59	58	49	48	56	51	67	65	60	56	52	48	41	36	30	35	59	47	29	11	20	30	59	56	32	30	45.8		
	MIN	25	20	35	32	30	39	36	25	23	35	32	45	51	43	50	37	33	22	26	19	19	34	27	9	3	5	10	24	32	16	10	27.3		
DOVER	MAX	50	42	40	49	49	55	55	40	47	56	55	58	59	61	60	52	50	41	41	33	33	58	48	30	20	19	33	46	59	34	30	45.3		
	MIN	31	25	38	36	38	40	35	30	24	36	34	44	51	44	50	37	34	23	25	20	17	31	26	18	11	4	13	25	32	16	12	28.7		
GEORGETOWN 5 SW	MAX	50	49	48	54	53	51	62	42	42	48	56	58	67	62	62	52	53	42	41	36	29	53	61	33	26	13	24	36	60	38	27	46.1		
	MIN	28	22	27	35	32	37	39	25	21	26	31	39	55	44	50	38	34	22	28	20	21	25	28	26	3	4	9	23	30	16	10	27.4		
LEWES	MAX	48	48	48	56	51	57	61	42	50	56	52	60	60	65	54	54	48	43	39	33	37	60	52	32	14	20	32	56	56	34	28	46.6		
	MIN	31	31	40	40	40	43	38	27	25	35	35	43	53	45	51	40	37	26	29	22	23	36	28	12	3	4	12	32	33	19	16	30.6		
MILFORD 2 WSW	MAX	50	44	46	52	50	58	61	40	48	57	52	65	64	62	60	52	47	40	37	30	35	60	47	30	14	20	33	59	60	36	30	46.4		
	MIN	29	23	39	37	34	42	36	29	23	35	35	46	54	43	50	37	32	25	25	19	20	34	27	9	2	4	10	24	32	16	10	28.4		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND  
DELAWARE  
DECEMBER 1983

STATION	DAY OF MONTH																																
	1	2	3	4	5	6	7	8	9	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 STATE PARK																									T								
SALISBURY FAA AP																									T	T							
SNOW HILL 4 N																									T	T							
CENTRAL EASTERN SHORE 02																																	
DENTON 2 E																										T							
ROYAL OAK 2 SSW																									T								
UPPER SOUTHERN 04																																	
BALTIMORE WSO AP																																	
COLLEGE PARK																																	
GLENN DALE BELL STN																																	
NORTHERN EASTERN SHORE 05																																	
CHESTERTOWN																																	
NORTHERN CENTRAL 06																																	
ABERDEEN PHILLIPS FLD																																	
CATOCTIN MOUNTAIN PARK																																	
DAMASCUS 2 SW																																	
EMMITSBURG 2 SE																																	
FREDRICK POLICE BRKS																																	
PARKTON 2 SW //																																	
UNIONVILLE																																	
HOODSTOCK																																	
APPALACHIAN MOUNTAIN 07																																	

SNOWFALL: INCLUDES SNOW AND ICE  
 SNOW ON GROUND: INCLUDES SNOW, SLEET, ICE AND HAIL  
 WATER EQUIVALENT: GIVEN FOR NWS STATIONS ONLY, WHEN SNOW DEPTH IS 2 INCHES OR MORE.  
 SEE REFERENCE NOTES FOLLOWING STATION INDEX

# SNOWFALL AND SNOW ON GROUND (INCHES)

MARYLAND AND  
DELAWARE  
DECEMBER 1983

STATION		DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
CUMBERLAND 2	SNOWFALL																						1.0		2.0								
	SN ON GND																						1	1	3	3	3	3	3	3	2	2	
FROSTBURG 2	SNOWFALL	T	.5	.1	.5	.5	3.0	.1	.2	1.0							.4	.2	T	T	T		1.0	.3	4.0	1.0	.4	T	T				
	SN ON GND	T	T		1		2	2	1	1	T	T				T	T	T	T	T	T		1	1	5	5	5	4	4	.5	.5	T	
HANCOCK FRUIT LAB	SNOWFALL																																
	SN ON GND																						T						1.0				
ALLEGHENY PLATEAU 08																																	
MC HENRY 2 NW	SNOWFALL	T	T				4.0	.5	T	T							.5	.5	T	T	.5		2.0	T	4.0	1.0							
	SN ON GND	T	T				3	3	3	1	T					1	1	1	1	1	1		2	2	5	5	4	4	4	4	T	1.0	T
SAVAGE RIVER DAM	SNOWFALL	T	T				7	7	7																								
	SN ON GND	T	T				T	T	T														T	T	2	T	T	T	T	T	T	2	2
DELAWARE																																	
NORTHERN 01																																	
WILMINGTON WSO AP	SNOWFALL		T		T																												
	SN ON GND																																
	WTR EQUIV																																
SOUTHERN 02																																	
BRIDGEVILLE 1 NW	SNOWFALL																																
	SN ON GND																																
MILFORD 2 WSW	SNOWFALL																																
	SN ON GND																																

SNOWFALL: INCLUDES SNOW AND ICE.  
 SNOW ON GROUND: INCLUDES SNOW, SLEET, ICE AND HAIL.  
 WATER EQUIVALENT: GIVEN FOR WSO STATIONS ONLY, WHEN SNOW DEPTH IS 2 INCHES OR MORE.  
 SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

MARYLAND AND  
DELAWARE  
DECEMBER 1983

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	16	16		C	H	ROSS AVIATION INC
ANNAPOLIS POLICE BRKS	0193	04	ANNE ARUNDEL	38 59	76 30W	25	17	17			H	ANNAPOLIS POLICE BRKS
ASSATEAGUE STATE PARK	0335	01	MORCESTER	38 14	75 8W	7	17	17			H	ASSATEAGUE STATE PARK
BALTIMORE WSO AP	0465	04	ANNE ARUNDEL	39 11	76 40W	196	MID	MID		C	H J	NATL WEATHER SERVICE
BALTIMORE WSO CI	0470	06	BALTO CITY	39 17	76 37W	91	MID	MID		C	H	OCHI COMMANDING OFFICER
BELTSVILLE	0700	04	PRN GEORGES	39 2	76 53W	120	8	8		B	C H	U S DEPT OF AGRICULTURE
BENSON POLICE BARRACKS	0732	06	HARFORD	39 30	76 23W	365	17	17				MARYLAND STATE POLICE
BOYDS 2 NW	1032	06	MONTGOMERY	39 13	77 20W	580	18	18				HUNTER F STALEY
BRIGHTON DAM	1125	06	MONTGOMERY	39 12	77 1W	330		MID				WASH SUB SANY COMM
CAMBRIDGE WTR TRMT PL	1385	02	DORCHESTER	38 34	76 4W	5	16	16			H	WASTEWATER TRMT PLANT
CATOCTIN MOUNTAIN PARK	1530	06	FREDERICK	39 39	77 29W	1610	17	17		C	H	CATOCTIN MOUNTAIN PARK
CENTREVILLE	1627	05	QUEEN ANNES	39 3	76 4W	60	17	17			H	MICHAEL B CATE
CHESTERTOWN	1750	05	KENT	39 13	76 4W	40	23	23			H	THOMAS W ELIASON JR
CLARKSVILLE 3 NNE	1862	06	HOWARD	39 15	76 56W	365	17	17				UNIVERSITY OF MARYLAND
COLLEGE PARK	1995	04	PRN GEORGES	38 59	76 57W	90	9	9		C	H	UNIVERSITY OF MARYLAND
CONOWINGO DAM	2060	06	HARFORD	39 39	76 10W	40	MID	MID			H	SUSQUEHANNA ELECTRIC CO
CRISFIELD SOMERS COVE	2215	01	SOMERSET	37 59	75 52W	8	17	17				INACTIVE 03/31/83
CUMBERLAND 2	2282	07	ALLEGANY	39 38	78 45W	730	18	7			H	TIMOTHY B THOMAS
DALECARLIA RESVR D C	2325	04		38 56	77 7W	146	17	17				U S CORPS OF ENGINEERS
DAMASCUS 2 SW	2335	06	MONTGOMERY	39 16	77 14W	720	19	19			H	RICHARD W SCHWERDT
DENTON 2 E	2523	02	CAROLINE	38 53	75 48W	50	17	17			H	ARTHUR REINHOLD
EDGEMONT	2770	07	WASHINGTON	39 40	77 33W	905		7				JOHN W HARNE
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 18W	416	17	17			H	MRS LUCILLE K BEALE
FREDRICK POLICE BRKS	3348	06	FREDERICK	39 25	77 26W	380	17	17			H	MARYLAND STATE POLICE
FREDERICK 3 E	3355	06	FREDERICK	39 24	77 22W	385		7				MISS I MARY STALEY
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2170	7	7			H	LEE K CLOSE
GLENN DALE BELL STN	3675	04	PRN GEORGES	38 58	76 48W	150	16	16			H	USDA PLT INTRODUCT STN
HAGERSTOWN	3975	07	WASHINGTON	39 39	77 44W	660	18	18				HAGERSTOWN RESERVOIR
HANCOCK FRUIT LAB	4030	07	WASHINGTON	39 42	78 11W	428	16	16		C	H	SHARPSBURG RESEARCH C
LA PLATA 1 W	5080	03	CHARLES	38 32	77 0W	140	18	18			H	C RUSSELL LEVERING
LAUREL 3 W	5111	04	PRN GEORGES	39 6	76 54W	400	MID	MID				WASH SUB SANY COMM
MC HENRY 2 NW	5832	08	GARRETT	39 35	79 22W	2680	8	8		C	H	JOSEPH F JOHENNING
MECHANICSVILLE 1 SE	5865	03	ST MARYS	38 26	76 43W	160	17	17				MRS EDITH R BENNETT
MERRILL	5894	08	GARRETT	39 36	79 5W	1790		9				DELWOOD E MERRILL
MILLINGTON 2 WNW	5985	05	KENT	39 16	75 52W	30	17	17			H	MRS GERALDINE CONNOLLEY
NATIONAL ARBORETUM D C	6350	04		38 54	76 59W	50	8	8			H	U S NATL ARBORETUM
OAKLAND 1 SE	6620	08	GARRETT	39 24	79 24W	2420	17	17			H	INACTIVE 09/21/83
OWINGS FERRY LANDING	6770	03	CALVERT	38 41	76 40W	160	17	17			H	JAMES E BOURNE JR
PARKTON 2 SW	6844	06	BALTIMORE	39 38	76 42W	600	23	23		C	H	JOHN R FOX
PATUXENT RIVER	6915	03	ST MARY'S	38 20	76 25W	38	MID	MID				NAVAL WEATHER SERVICE
POTOMAC FILTER PLANT	7272	06	MONTGOMERY	39 2	77 15W	270		8				POTOMAC WATER FILT PLT
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	17	17			H	UNIVERSITY MARYLAND EAST
ROCKVILLE 3 NE	7705	06	MONTGOMERY	39 7	77 6W	400	16	16			H	INACTIVE 03/31/83
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				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	8	8		B	C H	U S CORPS OF ENGINEERS
SNOW HILL 4 N	8380	01	MORCESTER	38 14	75 23W	28	18	18			H	CURTIS E SHOCKLEY
SOLOMONS	8405	03	CALVERT	38 19	76 27W	12	8	8				CHESAPEAKE BIOL LAB
TOWSON	8877	06	BALTIMORE	39 23	76 34W	390	18	18				BENDIX FRIEZ
UNIONVILLE	9030	06	FREDERICK	39 27	77 11W	430	18	18		C	H	GEORGE P VON EIFF JR
UPPER HARLBORO 3 NNW	9070	04	PRN GEORGES	38 52	76 47W	98	8	8		B	H	TOBACCO EXP FARM
VIENNA	9140	02	DORCHESTER	38 29	75 50W	12	18	18			H	DELMARVA POWER & LIGHT

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

MARYLAND AND  
DELAWARE  
DECEMBER 1983

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES				OBSERVER	
							LOCAL STD TIME					
							TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)		
WESTMINSTER POLICE BRK	9440	06	CARROLL	39 33	76 58W	765	17	17			MARYLAND STATE POLICE JOHN A HILTZ	
WOODSTOCK	9750	06	BALTIMORE	39 20	76 52W	460	18	18		H		
DELAWARE												
BRIDGEVILLE 1 NW	1330	02	SUSSEX	38 45	75 37W	50	17	17			WILLIAM M RAY STATE DIV OF HIGHWAYS	
DOVER	2730	02	KENT	39 9	75 31W	30	17	17		H		
GEORGETOWN 5 SW	3570	02	SUSSEX	38 38	75 27W	45	8		8	C	UNIV OF DEL SUBSTATION BOARD OF PUBLIC WORKS	
LEWES	5330	02	SUSSEX	38 46	75 8W	15	17	17		H		
MIDDLETOWN 1 HSW	5892	01	NEW CASTLE	39 26	75 45W	60	16	16		H	PIONEER HIBRED CORN CO MRS BERNARD FRANKEL	
MILFORD 2 HSW	5915	02	SUSSEX	38 54	75 28W	30	17	17		H		
NEWARK UNIVERSITY FARM	6410	01	NEW CASTLE	39 40	75 44W	90	17	17		17	C	UNIV OF DELAWARE
WILMINGTON WSO AP	R 9595	01	NEW CASTLE	39 40	75 36W	79	MID	MID			C	NATL WEATHER SERVICE WATER DEPARTMENT
WILMGTON PORTER RESVR	9605	01	NEW CASTLE	39 46	75 32W	274	MID	MID			H	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# REFERENCE NOTES

MARYLAND AND  
DELAWARE  
DECEMBER 1983

## DEFINITIONS

**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.

**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 indicate 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.

**PRECIPITATION:** Values shown in inches to hundredths 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 inches to tenths are unmelted amounts. The max. depth on ground values of snow and sleet shown in whole inches are cumulative unmelted amounts. The no. of days with .10, .50, 1.00 or more refers to water equivalents.

**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.

**NORMALS:** The average value of the meteorological element over a time period. Effective 1 January 1983, the averaging period is 1951 to 1980. The normals for National Weather Service localities have been adjusted so as to be representative for the current observation site.

**DIVISIONS:** Areas within a state of similar climatological characteristics.

**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.

## LETTERS AND SYMBOLS USED IN THE STATION INDEX TABLE

R Amounts from recording gage.  
// 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 gage unless indicated by an R.  
G Observations appear in "Soil Temperatures" table.  
J Station also published as a Local Climatological Data publication.  
H Observations appear in "Snowfall and Snow on Ground" table.  
MID Observation time is midnight.  
SR Observation time near sunrise.  
SS Observation time near sunset.  
VAR Observation time varies.  
MO Gage read once monthly, usually the last day.  
OC Gage readings vary from a few weeks to several months.  
WI Gage read weekly or irregularly.  
WM Gage read weekly and last day of month.  
# Thermometers located in a rooftop shelter.

## LETTERS AND SYMBOLS USED IN THE DATA TABLES

BLANK entries in the "Monthly Summarized Data" table indicate no record.  
BLANK entries in the "Daily Precipitation" and "Snowfall and Snow on 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 checks, 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.  
\* Gage not read. Precipitation is included in the amount following the asterisks. Time distribution not known. An \* preceding the monthly total indicates precipitation amount is being carried forward to next months total, and may include amounts from the previous month(s).  
V Includes total for previous month(s). (See \* above)  
// 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 gage.

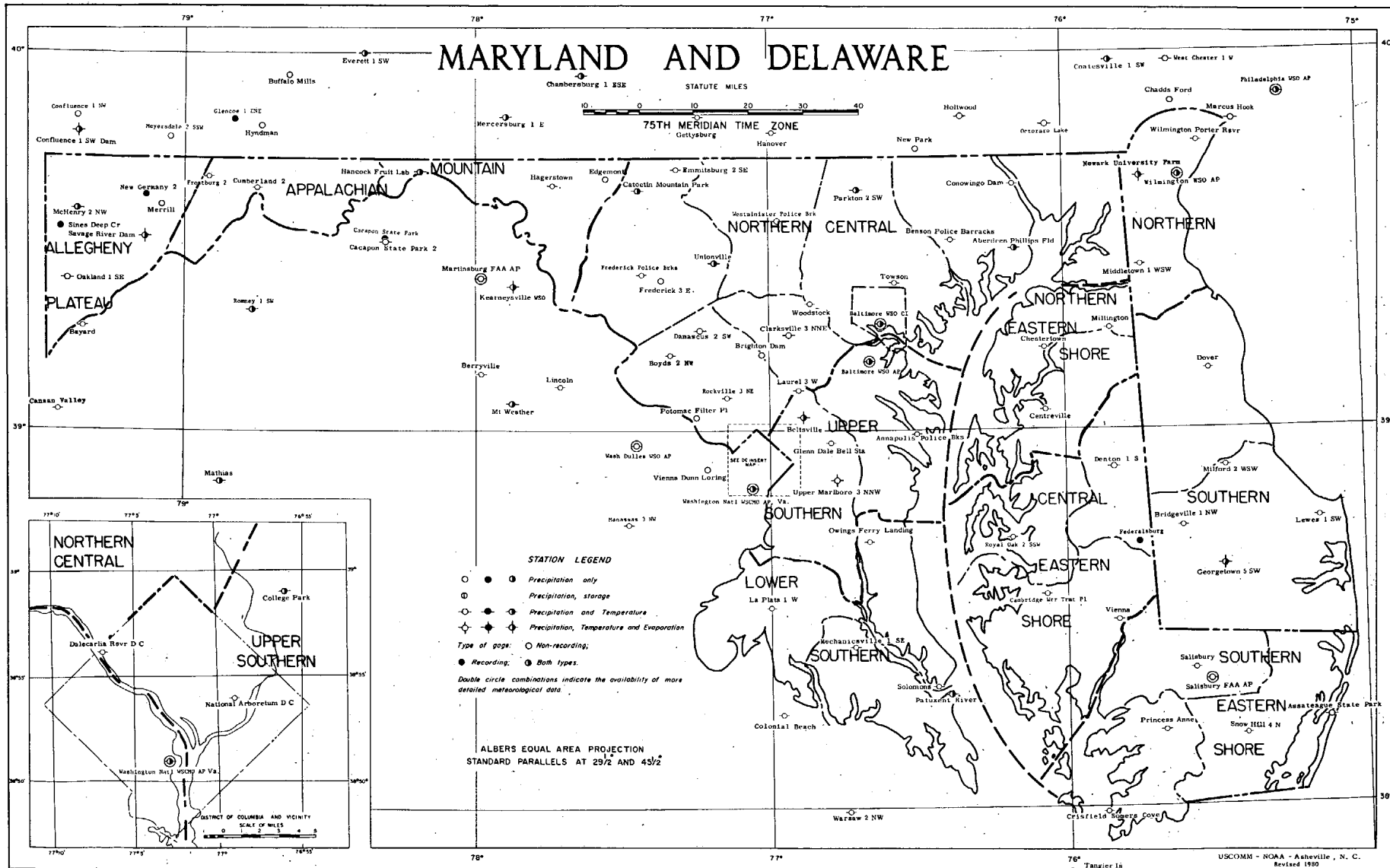
Additional Information regarding the climate of this state may be obtained by writing to the National Climatic Data Center, Federal Building, Asheville, N. C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "Hourly Precipitation Data" bulletin for each state, except Alaska.

Seasonal Tables: Monthly and seasonal snowfall and heating degree days for the 12 months ending with the June data will be carried in the July issue of this bulletin. Cooling degree days for the calendar year will be published in the "Climatological Data Annual Summary".

Information concerning the history of changes in locations, exposure, etc. of substations through 1955 is available in the "Substation History" publication. Subsequent historical information is kept on file at the National Climatic Data Center. Similar information for regular National Weather Service Offices may be obtained from the "Local Climatological Data" annual publication.

SUBSCRIPTION, PRICE AND ORDERING INFORMATION AVAILABLE FROM:  
THE NATIONAL CLIMATIC DATA CENTER, FEDERAL BUILDING,  
ASHEVILLE, N.C. 28801 (ATTN: PUBLICATIONS)

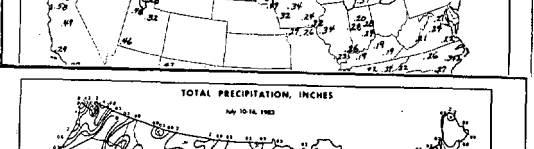
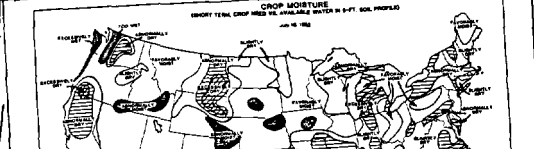
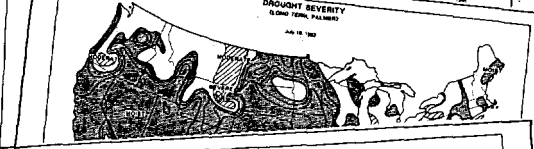
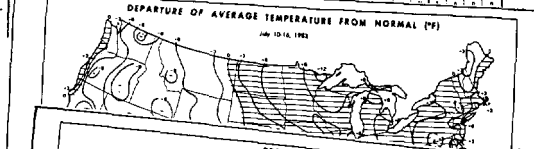
USCOMH-NOAA-ASHEVILLE, N.C. DECEMBER 1983-0895



# SUBSCRIBE TO THE

**Weather Data for the Week Ending July 16, 1983**

STATE AND STATION	TEMPERATURE °F		PRECIPITATION		RELATIVE HUMIDITY		NUMBER OF DAYS	
	MAX	MIN	TOTAL	TYPE	PERCENT	WINDY	WET	PRECIPITATION
ALABAMA	88	68	0.00		75		0	
ALASKA	65	45	0.00		65		0	
ARIZONA	105	75	0.00		35		0	
ARKANSAS	92	68	0.00		65		0	
CALIFORNIA	85	65	0.00		65		0	
COLORADO	85	55	0.00		45		0	
CONNECTICUT	85	65	0.00		65		0	
DELAWARE	85	65	0.00		65		0	
FLORIDA	92	72	0.00		65		0	
GEORGIA	92	72	0.00		65		0	
ILLINOIS	85	65	0.00		65		0	
INDIANA	85	65	0.00		65		0	
IOWA	85	65	0.00		65		0	
KANSAS	85	65	0.00		65		0	
KENTUCKY	85	65	0.00		65		0	
LOUISIANA	92	72	0.00		65		0	
MAINE	85	65	0.00		65		0	
MARYLAND	85	65	0.00		65		0	
MASSACHUSETTS	85	65	0.00		65		0	
MICHIGAN	85	65	0.00		65		0	
MINNESOTA	85	65	0.00		65		0	
MISSISSIPPI	92	72	0.00		65		0	
MISSOURI	85	65	0.00		65		0	
MONTANA	85	65	0.00		65		0	
NEBRASKA	85	65	0.00		65		0	
NEVADA	105	75	0.00		35		0	
NEW HAMPSHIRE	85	65	0.00		65		0	
NEW JERSEY	85	65	0.00		65		0	
NEW MEXICO	105	75	0.00		35		0	
NEW YORK	85	65	0.00		65		0	
NORTH CAROLINA	92	72	0.00		65		0	
NORTH DAKOTA	85	65	0.00		65		0	
OHIO	85	65	0.00		65		0	
OKLAHOMA	85	65	0.00		65		0	
OREGON	85	65	0.00		65		0	
PENNSYLVANIA	85	65	0.00		65		0	
RHODE ISLAND	85	65	0.00		65		0	
SOUTH CAROLINA	92	72	0.00		65		0	
SOUTH DAKOTA	85	65	0.00		65		0	
TENNESSEE	85	65	0.00		65		0	
TEXAS	92	72	0.00		65		0	
UTAH	105	75	0.00		35		0	
VIRGINIA	85	65	0.00		65		0	
WASHINGTON	85	65	0.00		65		0	
WEST VIRGINIA	85	65	0.00		65		0	
WISCONSIN	85	65	0.00		65		0	
WYOMING	85	65	0.00		65		0	



## WEEKLY WEATHER AND CROP BULLETIN

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National Weather Service

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### National Weather Summary

**WEATHER HIGHLIGHTS**  
July 10-16, 1983

**UNITED STATES**... Early in the week a cold front moved across the Northwest and dropped 1 to 2 inches of rain in northern Idaho and Montana. The rain was especially beneficial in the very dry northeastern section of Montana. Later, another system moved through the area producing light rain, and as the week ended, triggered moderate to heavy rain along a line from western Minnesota to northeastern New Mexico. A tropical system in the western Gulf of Mexico triggered heavy downpours in southeastern Texas, and light to moderate showers elsewhere in the Midwest. A few light, isolated moderate showers fell in the upper Ohio Valley too, in general, little rain fell in the Corn Belt. Average temperatures over the Corn Belt were near 80° which was 4 to 6° above-normal.

**SOUTH**... A disturbance moving through Montana and southern Canada triggered severe weather through most of the State, including heavy rain in the northeast, which has been extremely dry. The southeast had very little rain. Both the northeastern and northwestern parts of the Nation were unusually cool, but afternoon high temperatures in the central portion reached into the eight nineties.

**ADDITIONAL**... Unusually cool weather continued in the northwest and over the Plateau and the Rockies. The cool weather began moving over the northern U.S. last week, but weather pushed northward through the central Mississippi Valley and into Michigan. Cool weather was in central California and reached

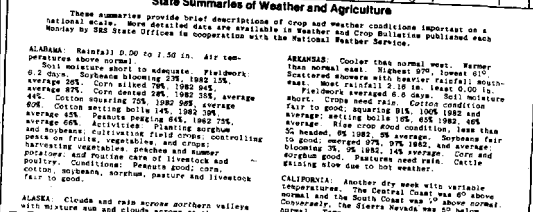
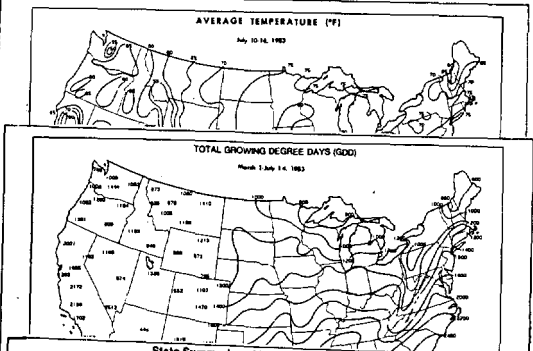
northward into Washington. A few light showers fell from southwestern New Mexico to central Nebraska, in southern New England, and along the Washington coast.

**EUROPE**... After early morning cool weather over the northern British Isles and France, and over much of the Northwest, hot weather dominated much of the northern West Indies, the Southeast, and much of the East. There were a few very light showers from Canada to the Appalachians, and in the Northwest. A disturbance in northeastern Mexico triggered showers and thunderstorms in southeastern Texas.

**MEXICO**... It was another cool morning in much of the Pacific, the Northwest, and in the Great Lakes area. However, unusually hot weather dominated the southern Plains and most of the Southwest. Showers and thunderstorms produced heavy rain over the southern Texas coast and lesser storms reached into Louisiana, Arkansas, and Oklahoma. Light showers also fell in New Mexico, the Texas Panhandle, Florida, and Georgia. Some moderate showers and thunderstorms began in the Northwest.

**TURKEY**... Heavy rain continued in southeastern Texas, while lighter showers and thunderstorms fell through all but southeastern Texas and northward into Missouri. Light showers and thunderstorms were triggered through the Southeast to Ohio Valley. Showers and thunderstorms were generally light in the Northwest, and ranged through Montana. High temperatures were 100° or greater in parts of the central Rockies and northern Plains, but cool weather pushed into the Northwest. (Continued on p. 10)

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**State Summaries of Weather and Agriculture**

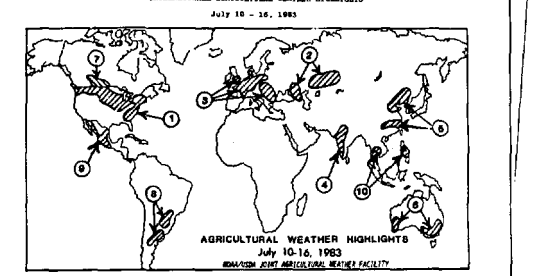
These summaries provide brief descriptions of crop and weather conditions important on a monthly basis. More detailed data are available in the Weather and Crop Bulletin published each month by the State Offices in cooperation with the National Weather Service.

**ALABAMA** Rainfall 0.00 to 1.50 in. Air temperature above normal. Soil moisture about to adequate. Planting: 62% Soybeans blooming 23%, 1982 15%, average 26%. Corn silking 78%, 1982 84%, average 82%. Cotton picking 75%, 1982 56%, average 65%. Cotton picking 84%, 1982 75%, average 62%. Peanuts picking 14%, 1982 39%, average 68%. Activities: Planting sorghum, beans on fruit, vegetable, and crop; harvesting vegetables, garden and summer poultry, and poultry care of livestock and cotton, soybeans, sorghum, pasture and livestock fair to good.

**ARKANSAS** Cooler than normal west. Former Statewide showers with heavier rainfall; southeast rainfall 2.16 to 4.68 in. West 0.00 to short. Crops need rain. Cotton condition fair to good; harvesting 91%, 1982 and average; setting bolls 105, 605, 1982, 605, 34 headed, 95, 1982, 95 average. Soybeans fair to good, average 97%, 1982, and average. Harvesting 75, 112, 145 average. Corn and soybeans need rain. Cattle and existing stock due to hot weather.

**CALIFORNIA** Another dry week with variable temperatures. The Central Coast was 6° above normal and the South Coast was 7° above normal. Temperatures were warm early in the week, cooling greatly late in the week. Excellent warm weather benefited all crops.

**ALASKA** Clouds and rain across northern valleys with mixture sun and clouds across southern. Precipitation



- UNITED STATES**... Hot, dry weather in the Corn Belt and southern states is causing some soil moisture shortages and localized crop stress, as the critical reproductive stage begins. Rains over the Northwest are finally relieving drought in western Montana. Abundant sunshine favors wheat harvest in the central and northern Plains.
- USSR**... In European USSR, showers are benefiting crops in many areas, but more rain is needed in the southwest for corn in the reproductive stage. In the New Lands, scattered precipitation and unseasonably warm temperatures are stressing spring grains in the heading stage.
- EUROPE**... crop

**Keep current.** If you would like to keep up to date on weather and crop progress all year, subscribe to the **Weekly Weather and Crop Bulletin**. Send a \$25 check payable to the Department of Commerce-NOAA to: Agricultural Weather Facility, USDA, South Building, Room 5844, Washington, DC 20250.

- MEXICO**... southern Plateau corn is... weight, temporary relief to upper Rio Grande orchards, crops, and livestock as the rest of the north remains mostly dry.
- SOUTHEAST ASIA**... Moderate rain benefited the south-central rice area of Thailand. Two tropical storms, bringing needed moisture to the Philippines, also caused some crop damage.

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