



CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

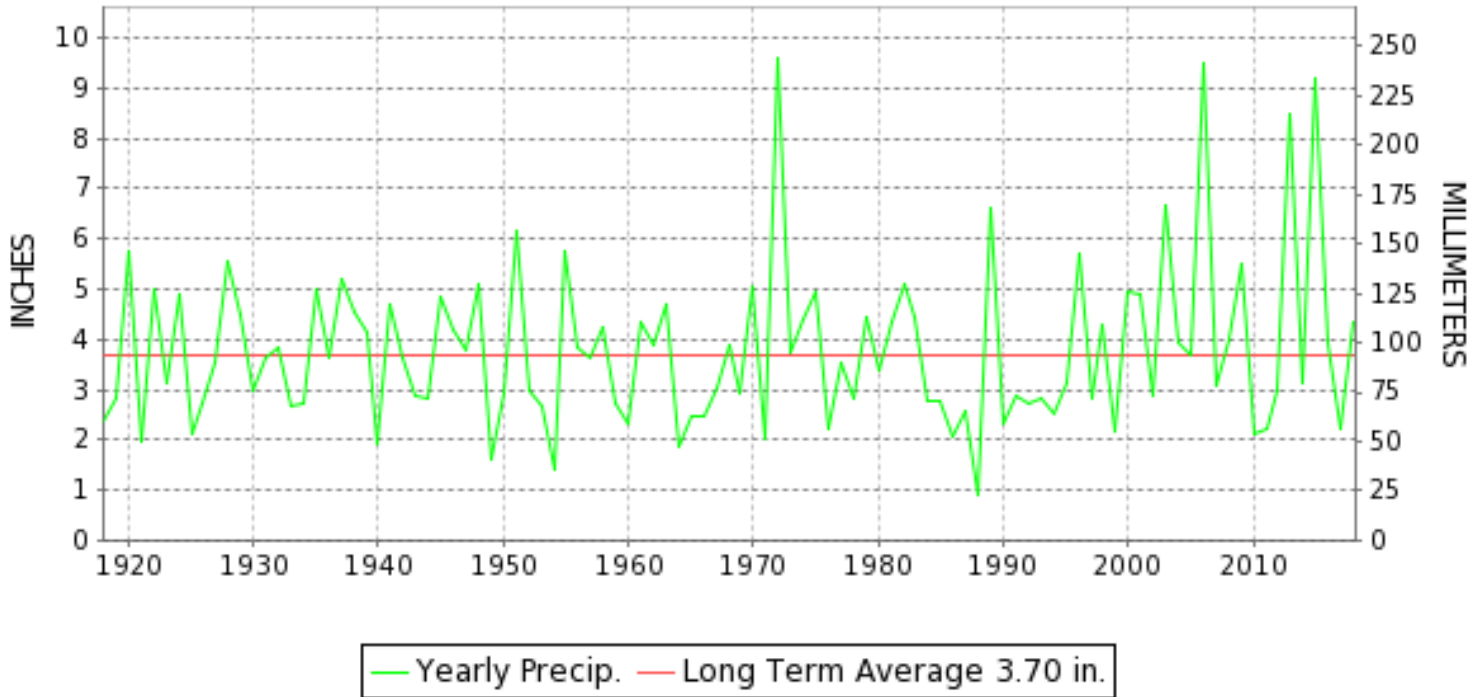
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JUNE PRECIPITATION BY YEAR



TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND

HIGHEST TEMPERATURE	98	JUNE 18	MARYLAND SCI CTR
LOWEST TEMPERATURE	38	JUNE 08+	SINES DEEP CREEK
GREATEST TOTAL PRECIPITATION	8.29		CUMBERLAND 2
LEAST TOTAL PRECIPITATION	2.79		ROYAL OAK 2 SSW
GREATEST 1 DAY PRECIPITATION	3.59	JUNE 04	BELTSVILLE

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DELAWARE

HIGHEST TEMPERATURE	97	JUNE 30	WILMINGTON NEW CASTLE CO AP
LOWEST TEMPERATURE	49	JUNE 12	WILMINGTON NEW CASTLE CO AP
GREATEST TOTAL PRECIPITATION	2.03		WILMINGTON NEW CASTLE CO AP
LEAST TOTAL PRECIPITATION	2.03		WILMINGTON NEW CASTLE CO AP
GREATEST 1 DAY PRECIPITATION	0.79	JUNE 11	WILMINGTON NEW CASTLE CO AP

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												
--DIVISIONAL DATA-----> APPALACHIAN MOUNTAIN 07			70.1	-0.6B										5.27	1.22B											
HAGERSTOWN 1 E	81.3	62.3	71.8		94	18	49	07	10	222	3	0	0	0	4.94		0.85	22	0.0	0		17	10	0		
CUMBERLAND 2	80.7	60.8	70.8	-1.8	95	19	47	08+	19	198	2	0	0	0	8.29	5.01	1.90	11	0.0	0		16	13	2		
FROSTBURG 2	73.9	56.8	65.4	0.3	86	19	42	07	63	81	0	0	0	0	7.16	3.16	1.35	21	0.0	0		16	11	2		
SHARPSBURG 5 S	80.4	58.9	69.6	-0.6	92	19	48	07	20	166	1	0	0	0	A 5.37	1.49	1.11	23	0.0	0		13	10	1		
WILLIAMSPORT														8.13	4.35	1.55	02	M				16	12	4		
--DIVISIONAL DATA-----> ALLEGHENY PLATEAU 08			69.4	0.9B										6.78	3.26B											
OAKLAND 1 SE	76.0	58.5	67.3	2.9	87	19	39	08+	42	118	0	0	0	0	6.81	2.39	2.30	28	0.0	0		17	10	1		
SAVAGE RIVER DAM	74.4	54.5	64.5	-1.7	89	19	41	08	70	62	0	0	0	0	8.08	4.18	1.32	21	0.0	0		17	15	4		
SINES DEEP CREEK	M	M	M		88	18	38	08+	96E	52E	0	0	0	0	A* 6.35		1.00	20	M	0		7	6	1		
--DIVISIONAL DATA----->			65.9	1.5B										7.08	2.87B											
DELAWARE NORTHERN 01																										
WILMINGTON NEW CASTLE CO AP	81.9	62.6	72.3	0.1	97	30	49	12	8	233	4	0	0	0	2.03	-1.85	0.79	11	0.0	0		11	5	0		
--DIVISIONAL DATA----->			72.3	0.9B										2.03	-1.87B											

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																																
PRINCESS ANNE	M	-	*	*	4.25 _a	-	0.09	-	-	0.08	*	1.95 _a	0.04	0.04	-	-	-	-	-	0.05	0.07	-	*	*	0.63 _a	-	-	-	-	-	-	
SALISBURY 2N	5.25	0.10	1.10	1.34	0.43		0.01			1.16	0.03	0.44	0.01		0.03									0.01	0.03							
SALISBURY-WICOMICO RGNL AP	4.17	0.01	0.18	1.63	T	T				1.26	0.39	0.08		0.03					0.14	0.27	0.09	0.05	0.02	0.02								
SNOW HILL 4 N	4.60			0.75	0.95		0.06			1.10		1.10		0.11							0.35		0.08						0.10			
CENTRAL																																
EASTERN SHORE 02																																
ROYAL OAK 2 SSW	2.79	0.97	0.01	0.63	T					T	T	0.55								0.04	T	0.05	0.45	0.05	0.04	T		T	T			
LOWER SOUTHERN 03																																
MECHANICSVILLE 5 NE	7.06	1.83	0.25	0.26	1.45					0.47	0.24	0.36	0.01								0.52	0.16	0.05	0.78	0.31	0.11			0.26			
SOLOMONS	M	0.82	*	*	0.83 _a	T	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
UPPER SOUTHERN 04																																
BALTIMORE-WASHINGTON INTL AP	4.77	0.71	0.28	1.74	T	0.04				T	0.82	0.80							T	0.01	0.08	T	0.11	0.06	0.08			0.04				
BELTSVILLE	6.09	1.11		0.40	3.59						0.02	0.31	0.01								0.08	0.25	0.02	0.24		0.06						
DALECARLIA RSVR	M 6.22	2.00	0.10	0.50	1.65						0.12	0.32	0.05								0.75	0.53	0.05	-	-		0.05		0.10			
MARYLAND SCI CTR	3.20		0.03	1.14		0.21				0.17	0.21	1.03								0.04	0.19		0.04	0.02	0.10		0.02					
NATL ARBORETUM DC	6.86	1.51	0.10	0.14	2.51						0.54	0.42	0.03								0.66	0.17	0.08	0.34	0.11	0.07			0.18			
OXON HILL	6.04	0.87	0.04	0.38	1.73						0.33	0.38	T	T	T						1.43	0.13	0.03	0.39	0.01	0.32			T			
NORTHERN																																
EASTERN SHORE 05																																
STEVENSVILLE 2SW	2.97	0.07		0.27	0.72							0.73	0.32		0.05						0.05	0.04	0.08		0.52	0.12						
SUDLERSVILLE 1S	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD	A 4.41	0.27		*	1.25 _a		0.12				*	2.21 _a	0.11								T		0.10	*	*	0.23 _a			0.12			
CONOWINGO DAM	4.38	0.12	1.80	0.47	0.82		0.04					0.77	0.10							0.06		0.07		0.05	0.08							
CYLBURN	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAMASCUS 3 SSW	4.61	0.02	0.63	0.98		0.07				0.11	T	1.08		T					T	0.19	0.33	0.04	0.26	0.49	0.41			T				
EMMITSBURG 2 SE	7.88	0.39	1.82	0.67	0.48		0.46					1.92	0.09	0.02	T	0.03					0.09	0.28	0.05	0.49	0.17	0.75			0.17			
MILLERS 4 NE	5.40	0.21	1.97	0.87	0.08	T	0.07				0.54	0.99		T							0.08	T	0.15	0.04	0.31	0.01	0.07		T	0.01		
REISTERSTOWN 2 NW	M 4.95	-	0.05	1.90	1.19		0.26				0.30	0.77	0.06								0.22		0.20	-	-	-	-	-	-	-		
SMITHSBURG 2NW	4.94	0.33	0.80	0.39	0.28		0.20					1.28	0.13	0.04	0.02						0.05	0.03	0.37	0.07	0.37	0.30	0.12		0.16			
APPALACHIAN																																
MOUNTAIN 07																																
HAGERSTOWN 1 E	4.94	0.36	0.21	0.63	0.02	0.08					0.42	0.64		0.10					0.04	0.02	0.84	0.05	0.85	0.44	0.05			0.18	0.01			
CUMBERLAND 2	8.29	0.58		0.80	0.58		0.01				0.54	1.90	0.13	0.15	0.10							0.25	1.42	0.38	0.90	0.08	0.01		0.46			
FROSTBURG 2	7.16	0.40	T	0.87	0.62		0.06					1.34	0.17	0.14	0.03							0.09	1.35	0.48	0.48	0.56		0.01	0.53	0.03		
SHARPSBURG 5 S	A 5.37	0.11	0.17	0.65	0.25		0.15				0.06	0.79	0.12	0.01	0.04				*	*	*	*	1.54 _a	1.11	0.24	T			0.13			
WILLIAMSPORT	8.13	0.42	1.55	1.18	0.06		0.13					1.22	0.21	0.06	0.13						0.03	1.32	0.09	0.73	0.61	0.16			0.23			
ALLEGHENY PLATEAU 08																																
OAKLAND 1 SE	6.81	0.28	0.15	0.65	0.63		0.08					0.47	0.05		0.05				0.09		0.08	0.35	0.67	0.68	0.07	0.20			2.30	0.01		

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
SAVAGE RIVER DAM	8.08	1.02	0.05	1.25	0.41		0.10				0.68	0.25	0.22	0.65			0.05				0.15	1.32	1.01	0.16	T	0.14			0.52	0.10		
SINES DEEP CREEK	A* 6.35	0.35	*	*	1.65 _a		0.35			*	*	*	1.00 _a	0.20	0.20		*	*	0.00 _a		1.00	*	0.45 _a	*	*	0.25 _a			0.85	0.05	-	
DELAWARE NORTHERN 01 WILMINGTON NEW CASTLE CO AP	2.03	0.01	0.15	0.58	0.04	0.09			T	0.15	0.79		T							T	T	T	0.18	0.01	T			0.01	0.02			

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		
MARYLAND SOUTHERN EASTERN SHORE 01 PRINCESS ANNE	17	MAX MIN																																	M M
SALISBURY 2N	17	MAX MIN	87 70	87 71	80 61	74 56	80 56	80 61	79 57	82 59	86 59	82 67	80 60	76 54	82 63	84 72	83 61	84 57	90 63	90 69	91 76	89 69	85 72	85 68	90 72	87 68	82 64	82 62	88 74	92 70	92 68	84.5 64.9			
SALISBURY-WICOMICO RGNL AP	24	MAX MIN	86 70	85 71	72 60	75 56	80 55	74 59	76 57	83 56	88 67	81 66	71 55	74 66	82 65	84 60	84 55	90 61	92 70	93 75	87 71	86 69	72 68	85 69	91 71	85 66	80 61	82 62	89 72	92 69	93 66	83.1 64.0			
SNOW HILL 4 N	17	MAX MIN	91 72	90 73	79 65	80 60	84 61	84 64	76 60	87 61	84 60	82 69	75 62	75 57	85 67	88 67	88 66	88 60	91 59	97 72	87 76	89 75	80 74	90 71	95 72	90 73	85 71	87 64	93 75	93 72	96 70	86.6 67.1			
CENTRAL EASTERN SHORE 02 ROYAL OAK 2 SSW	17	MAX MIN	88 69	85 72	77 55	77 55	81 65	77 64	79 60	84 61	85 66	84 67	73 62	79 52	83 67	85 64	82 62	86 58	91 63	92 68	93 76	88 67	85 70	74 65	86 67	90 70	84 71	83 60	83 66	89 75	91 72	93 69	84.2 65.3		
LOWER SOUTHERN 03 MECHANICSVILLE 5 NE	07	MAX MIN	81 67	84 68	78 69	69 59	74 54	78 58	72 58	75 57	81 58	83 67	79 60	64 53	73 60	82 65	82 61	81 56	85 56	87 67	88 73	92 67	86 70	82 65	69 66	80 67	86 67	81 60	77 62	79 66	85 67	85 68	79.9 63.0		
SOLOMONS	08	MAX MIN				59 56	67 57	70 65																										M M	
UPPER SOUTHERN 04 BALTIMORE-WASHINGTON INTL AP	24	MAX MIN	86 69	85 69	73 55	77 52	79 53	73 57	77 58	82 60	86 65	77 55	65 50	76 66	83 62	84 62	82 57	86 56	90 66	94 69	90 70	84 66	82 69	74 65	80 66	89 66	83 62	83 58	79 66	88 71	93 69	96 68	82.5 62.6		
BELTSVILLE	08	MAX MIN	83 68	88 70	83 66	66 54	77 54	79 60	73 58	79 59	85 66	83 66	78 58	64 51	76 63	84 71	84 57	81 56	87 67	90 74	95 67	91 69	84 70	81 65	87 66	81 68	82 58	82 68	86 73	90 68	66 66	81.7 64.1			
DALECARLIA RSVR	08	MAX MIN	85 67		82 60	83 55	82 55	82 55	80 60	85 60	85 60	78 58	65 52	78 59	84 69	84 58	81 57	87 58	90 69	91 69	91 69	84 69	81 69	70 69	81 69	87 69	81 69	87 69	81 65	82 71	86 68	68 68	M 61.6		
MARYLAND SCI CTR	24	MAX MIN	88 72	88 73	75 57	80 57	83 62	75 62	79 65	83 66	86 72	77 64	68 60	79 59	87 69	87 75	84 69	89 68	91 74	98 76	92 78	85 73	84 73	77 66	81 66	92 72	85 72	86 67	80 72	91 66	95 76	97 78	84.7 69.0		
NATL ARBORETUM DC	08	MAX MIN	87 69	90 72	86 71	71 60	80 56	82 62	76 59	81 61	86 63	85 65	77 60	67 55	78 58	85 69	86 64	85 59	88 71	91 72	93 77	93 70	87 72	85 69	73 68	82 72	89 69	85 62	85 66	82 72	89 70	93 70	83.9 66.1		
OXON HILL	07	MAX MIN	86 68	89 70	83 70	73 54	79 55	81 59	75 58	80 60	84 66	85 67	81 58	65 55	78 57	84 66	86 64	83 59	87 61	88 70	93 71	92 70	85 69	85 68	71 65	82 68	88 70	83 61	81 64	83 68	91 71	82.9 64.3			
NORTHERN EASTERN SHORE 05 STEVENSVILLE 2SW	07	MAX MIN	86 70	87 70	79 65	66 ¹ 56	79 58	83 62	73 62	80 63	84 64	81 69	77 59	65 53	79 53	84 68	86 67	87 63	88 69	91 72	95 73	92 72	87 72	81 72	72 66	80 69	93 72	81 67	84 68	81 69	92 76	93 70	83.4 66.3		
NORTHERN CENTRAL 06 ABERDEEN PHILLIPS FLD	07	MAX MIN	78 65	82 69	83 65	65 52	73 53	79 56	71 57	76 58	80 63	82 67	73 58	65 51	76 54	80 67	85 63	79 56	84 61	88 67	91 71	87 66	84 70	82 70	72 64	76 65	89 67	82 57	81 62	77 68	86 72	92 65	79.9 62.6		
CONOWINGO DAM	07	MAX MIN	76 65	83 65	82 65	68 57	70 53	78 57	71 57	76 57	82 59	85 66	83 58	60 53	74 57	78 66	86 60	79 54	81 54	86 63	86 63	86 65	87 64	89 69	70 65	72 65	87 68	78 53	78 53	80 70	80 70	79.0 60.9			

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		
CYLBURN	08	MAX MIN																																	M M
DAMASCUS 3 SSW	22	MAX MIN	83 68	80 68	69 54	73 52	75 52	66 53	75 54	79 59	81 65	72 61	62 55	76 51	80 64	81 64	79 57	82 57	86 67	90 68	85 70	77 64	69 67	78 62	82 61	77 66	80 63	77 57	82 65	86 70	89 65	78.2 61.5			
EMMITSBURG 2 SE	07	MAX MIN	76 66	87 68	82 68	69 54	75 52	76 52	68 52	76 52	82 56	82 63	72 57	66 49	76 50	81 63	84 60	79 54	86 61	87 66	93 70	85 65	78 68	71 66	77 62	85 64	79 57	81 58	76 66	85 66	92 65	79.5 60.4			
MILLERS 4 NE	18	MAX MIN	83 67	83 67	70 55	74 50	74 50	69 55	75 51	80 57	82 64	80 62	66 55	75 47	80 63	81 64	80 60	83 64	86 65	90 73	86 62	79 66	80 64	76 61	84 63	80 63	80 54	79 63	83 70	88 64	91 67	80.0 60.6			
REISTERSTOWN 2 NW	08	MAX MIN	77 68	86 66	83 66	66 51	76 52	78 52	69 56	77 58	82 63	82 66	82 55	66 51	75 56	83 65	83 62	78 59	84 66	88 69	92 72	87 66	80 68	70 69									79.3 M		
SMITHSBURG 2NW	08	MAX MIN	80 65	86 67	80 66	68 54	75 49	71 52	66 47	77 47	80 57	82 64	73 55	73 50	82 60	79 54	83 53	86 53	91 53	83 67	79 64	80 66	69 64	79 61	84 63	78 57	82 60	78 66	82 61	89 61	79.1 58.2				
APPALACHIAN MOUNTAIN 07																																			
HAGERSTOWN 1 E	24	MAX MIN	87 69	84 69	70 57	77 56	77 53	68 53	77 49	82 58	84 64	72 60	66 58	78 51	84 65	84 65	82 56	85 55	88 69	94 67	89 73	78 66	80 69	71 64	80 63	89 67	81 66	83 58	79 68	85 70	91 64	93 66	81.3 62.3		
CUMBERLAND 2	07	MAX MIN	80 67	88 67	77 65	67 58	74 52	74 52	64 47	80 47	85 57	84 66	73 58	66 58	76 60	85 61	83 56	86 53	88 68	95 68	88 72	81 69	80 64	67 63	82 63	88 62	84 57	83 57	80 67	86 67	93 71	80.7 60.8			
FROSTBURG 2	07	MAX MIN	75 62	83 65	72 62	64 52	69 48	68 46	54 42	75 43	76 53	78 60	78 54	58 53	70 55	77 54	74 55	75 52	82 57	82 65	86 67	81 66	75 65	70 58	61 58	76 60	78 60	74 53	73 57	74 62	83 59	73.9 56.8			
SHARPSBURG 5 S	07	MAX MIN	81 64	87 67	83 66	69 55	76 49	76 50	69 48	78 52	83 59	84 62	74 58	65 51	77 54	84 59	83 52	81 52	84 53	87 63	92 66	88 64	81 66	79 67	71 62	81 63	85 63	80 54	82 55	80 67	88 63	80.4 58.9			
ALLEGHENY PLATEAU 08																																			
OAKLAND 1 SE	07	MAX MIN	78 64	80 66	73 64	71 56	70 52	68 47	58 39	75 39	76 57	83 60	82 57	64 57	70 61	78 57	78 51	82 60	84 64	87 65	82 68	82 66	78 63	66 61	75 65	79 64	77 60	68 61	77 64	78 58	84 58	76.0 58.5			
SAVAGE RIVER DAM	08	MAX MIN	77 63	81 58	73 64	65 56	70 48	69 48	57 44	67 41	73 44	74 55	67 48	59 54	69 57	73 54	80 51	81 50	81 47	89 49	84 56	83 56	77 61	62 60	76 61	79 61	79 56	71 63	77 59	85 59	74.4 54.5				
SINES DEEP CREEK	07	MAX MIN	81 60			77 49	75 47	67 44	54 38	73 38																								M M	
DELAWARE NORTHERN 01																																			
WILMINGTON NEW CASTLE CO AP	24	MAX MIN	83 71	85 70	73 54	75 53	80 53	74 58	74 61	80 59	87 65	77 58	70 56	73 49	80 66	84 64	82 58	85 56	88 63	92 69	89 70	84 64	85 71	73 62	75 64	89 70	85 63	80 57	75 63	90 73	93 69	97 69	81.9 62.6		

MARYLAND AND DELAWARE
201806

DAILY SOIL TEMPERATURES

STATION	DEPTH	TIME	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		
MARYLAND UPPER SOUTHERN 04 BELTSVILLE (in)																																			

MARYLAND AND DELAWARE
201806

SOILS REFERENCE NOTES

STATION	SOIL TYPE	SOIL COVER	SLOPE	UNITS
BELTSVILLE	UNKNOWN	GRASS	0	F

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 PRINCESS ANNE SALISBURY 2N SALISBURY-WICOMICO RGNL AP SNOW HILL 4 N	SNOWFALL																																
	SNOWFALL																																
	SNOWFALL																																
	SN ON GND																																
	SNOWFALL																																
DELAWARE NORTHERN 01 WILMINGTON NEW CASTLE CO AP	SNOWFALL																																
	SN ON GND																																

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	26	40	48	45	41	89	33	29	19	27	55	27	67	75	50	41	27	20	58	42	19	33	55	26	50	49	55	87	48	25	1306	
	EVAP	0.17	0.19	0.17	-	0.15	0.29	0.15	0.17	0.16	0.14	0.13	0.03	0.23	0.19	0.33	0.25	0.28	0.22	0.27	0.16	0.13	0.14	0.02	0.10	0.20	0.28	0.24	0.04	0.26	0.28	5.56E	
	MAX	94	94	89	69	80	82	79	84	87	90	80	67	86	86	88	89	93	96	98	90	86	88	73	82	89	87	86	81	89	90	85.4	
	MIN	68	64	65	54	54	62	59	60	65	68	59	55	56	66	59	59	60	70	73	68	70	71	64	67	69	62	62	65	69	68	63.7	
ALLEGHENY PLATEAU 08 SAVAGE RIVER DAM	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	EVAP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	

Evaporation: Is measured in hundreths 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	0015	06	HARFORD	39 28	76 10W	57	07	07		CH
BALTIMORE-WASHINGTON INTL AP R	0465	04	ANNE ARUNDEL	39 10	76 41W	156	24	24		HJ
BELTSVILLE	0700	04	PRINCE GEORGE'S	39 2	76 56W	145	08	08	08	GCH
CONOWINGO DAM	2060	06	HARFORD	39 39	76 11W	40	07	07		H
CUMBERLAND 2	2282	07	ALLEGANY	39 39	78 45W	730	07	07		H
CYLBURN	2308	06	BALTIMORE	39 21	76 39W	235	08	08		H
DALECARLIA RSVR	2325	04	DISTRICT OF COLUMBIA	38 56	77 7W	150	08	08		H
DAMASCUS 3 SSW	2336	06	MONTGOMERY	39 16	77 14W	700	22	22		H
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 17W	403	07	07		H
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2170	07	07		H
HAGERSTOWN 1 E	1790	07	WASHINGTON	39 38	77 42W	532	24	24		H
MARYLAND SCI CTR R	5718	04	BALTIMORE (CITY)	39 17	76 37W	20	24	24		H
MECHANICSVILLE 5 NE	5865	03	ST. MARY'S	38 30	76 44W	100	07	07		H
MILLERS 4 NE	5934	06	CARROLL	39 43	76 48W	860	18	18		CH
NATL ARBORETUM DC	6350	04	DISTRICT OF COLUMBIA	38 55	76 58W	50	08	08		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	186	07	07		H
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	17	17		H
REISTERSTOWN 2 NW	7580	06	BALTIMORE	39 30	76 50W	737	08	08		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 //R	8005	01	WICOMICO	38 20	75 31W	47	24	24		H
SAVAGE RIVER DAM	8065	08	GARRETT	39 31	79 8W	1495	08	08	08	CH
SHARPSBURG 5 S	8207	07	WASHINGTON	39 24	77 43W	500	07	07		H
SINES DEEP CREEK	8315	08	GARRETT	39 31	79 25W	2040	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
STEVENSVILLE 2SW	8557	05	QUEEN ANNE'S	38 58	76 20W	10	07	07		H
SUDLERSVILLE 1S	8657	05	QUEEN ANNE'S	39 10	75 51W	100		20		H
WILLIAMSPORT	9570	07	WASHINGTON	39 37	77 51W	360		06		CH
DELAWARE										
WILMINGTON NEW CASTLE CO AP R	9595	01	NEW CASTLE	39 40	75 36W	79	24	24		HJ

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 temperature and/or precipitation. Station Precipitation totals flagged with an 'F' or 'M' are excluded from the Divisional Average calculations of precipitation. Stations with monthly Temperature averages flagged with an 'F' or 'M' are included in the Divisional Average if there are no more than 9 flagged or missing daily values in the month, else they are excluded from the divisional average for temperature.

NORMALS: The average value of the meteorological element over a time period. Effective 1 January 2012, the averaging period for station departures is 1981 to 2010. The normals for National Weather Service localities have been adjusted so as to be representative for the current observation site.

The January 2011 through December 2015 publications incorrectly state the computation of divisional departures. Climate Division departures have been, and continue to be, computed from 1971-2000 Normals, not 1981-2010 as stated. Station departures are accurately described as departures from 1981-2010.

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 NCEI 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 / SS Observation time near sunrise / Observation time near sunset, respectively.

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)

B Divisional Departure from normals are computed using 1971-2000 normals.

E Normalized HDD/CDD Calculation. E is appended to the HDD/CDD Calculation when 1-9 individual daily TMAX and/or TMIN values are missing and a Normalized HDD/CDD Calculation is provided. M appears alone if 10 or more daily values are missing.

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 Centers for Environmental Information. 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 Centers For Environmental Information. 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).

As of the 2011 Data-Year, Station and Climate Division Maps are no longer being included in the CD Publications. NCEI's Products Branch provides updated Station Maps for various data networks via the Historical Observing Metadata Repository: <http://www.ncdc.noaa.gov/homr>.

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

Z = flagged as a result of an official Datzilla investigation

Beginning with the January 2013 CD Publication, monthly mean temperature calculations have changed to the National Data Stewardship Team standard. Monthly maximum and minimum temperatures are not rounded until after the monthly mean temperature is calculated. This is the most accurate outcome, but may be slightly different from the mean derived from rounded monthly maximum and minimum.

The climate division temperature and precipitation values in this publication are based on simple averages from the current set of NWS-Designated Open and Published COOP and First Order Sites within each division. These values differ from those found in NCEI's nClimDiv product. Beginning in February 2014, the nClimDiv product is used by NCEI's Monitoring Branch and in its monthly climate reports. For more details on nClimDiv, please go to <http://www.ncdc.noaa.gov/monitoring-references/maps/us-climate-divisions.php>.

Effective January 2016, Alaska's Climate Divisions are updated to reflect the 13 climate divisional boundaries established by University of Alaska-Fairbanks, NWS, NCEI, Oregon State University, and University of Nebraska-Lincoln. For more details regarding the updated Alaska Climate Divisions, see: <http://journals.ametsoc.org/doi/pdf/10.1175/JAMC-D-11-0168.1> (Bienek et al., 2012).

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