



CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

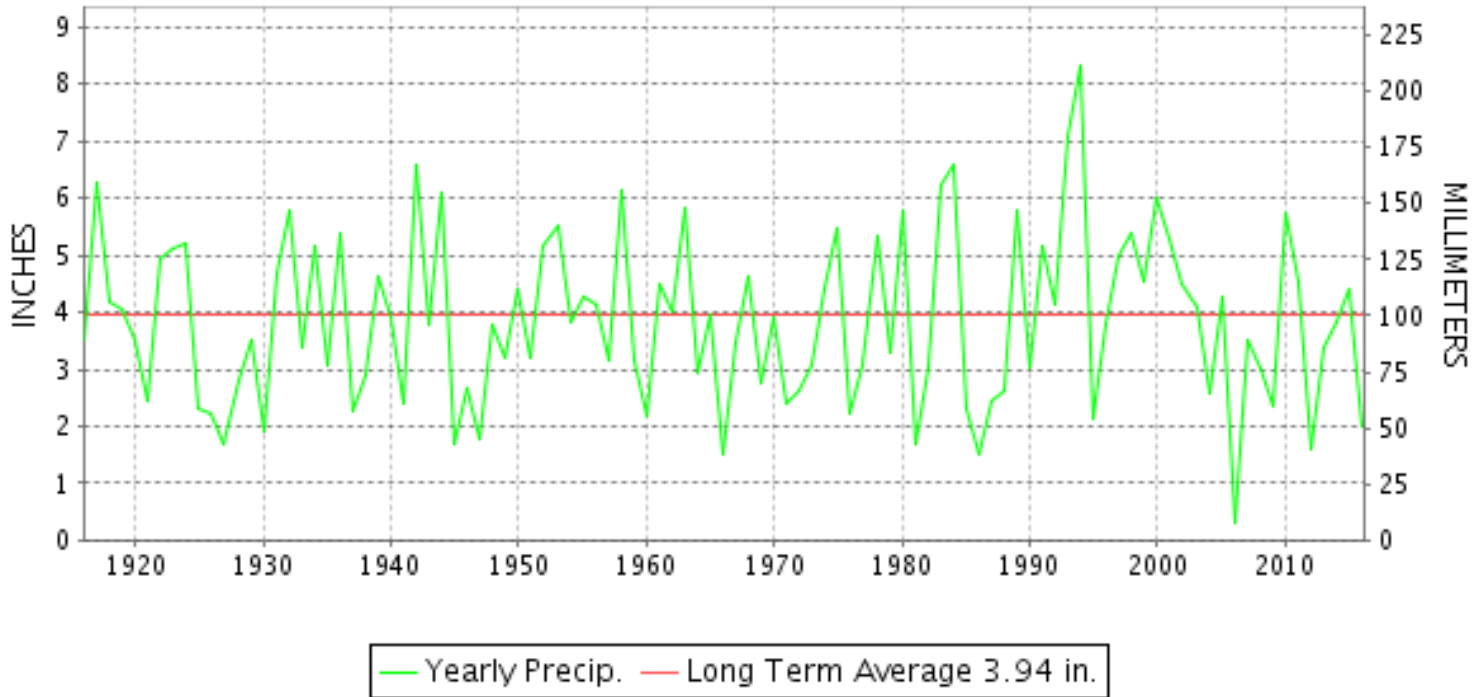
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MARCH PRECIPITATION BY YEAR



TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND

HIGHEST TEMPERATURE	83	MARCH 10+	2 STATIONS
LOWEST TEMPERATURE	14	MARCH 03+	2 STATIONS
GREATEST TOTAL PRECIPITATION	3.50		SINES DEEP CREEK
LEAST TOTAL PRECIPITATION	0.78		UPPER MARLBORO 3 NNW
GREATEST 1 DAY PRECIPITATION	1.16	MARCH 14	FROSTBURG 2
GREATEST TOTAL SNOWFALL	7.4		SINES DEEP CREEK
GREATEST DEPTH OF SNOW OR ICE	4		3 STATIONS

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DELAWARE

HIGHEST TEMPERATURE	81	MARCH 09	WILMINGTON NEW CASTLE CO AP
LOWEST TEMPERATURE	24	MARCH 03+	2 STATIONS
GREATEST TOTAL PRECIPITATION	2.59		DOVER
LEAST TOTAL PRECIPITATION	1.80		WILMINGTON NEW CASTLE CO AP
GREATEST 1 DAY PRECIPITATION	0.90	MARCH 14	WILMINGTON PORTER RSCH
GREATEST TOTAL SNOWFALL	2.7		WILMINGTON NEW CASTLE CO AP
GREATEST DEPTH OF SNOW OR ICE	3		DOVER

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																								
MARYLAND SOUTHERN EASTERN SHORE 01 ASSATEAGUE	M	M	M								0	0	0	0	M				M																			
PRINCESS ANNE	66.4M	42.7M	54.6M	8.9	79	23	24	03	319E	3E	0	0	5	0	M 1.69	-2.67	0.98	21	M									3	1	0								
SALISBURY 2N	64.3M	41.7	53.0M		77	25+	25	03	373E	11E	0	0	8	0	1.68		0.45	04	M								6	0	0									
SALISBURY FAA AP	61.3	39.8	50.5	5.8	77	25+	24	03	444	3	0	0	9	0	1.78	-2.64	0.53	20	M 5.8	0							4	1	0									
SNOW HILL 4 N	64.5	39.6	52.1	5.7	79	08	21	03	402	7	0	0	9	0	2.79	-1.73	0.74	20	M							7	3	0										
--DIVISIONAL DATA----->			52.6	7.3B											2.08	-2.40B																						
CENTRAL EASTERN SHORE 02 ROYAL OAK 2 SSW	61.5	42.0	51.8	5.3	77	09	24	03	407	2	0	0	6	0	2.00	-2.36	0.75	28	4.0	T	04					5	2	0										
--DIVISIONAL DATA----->			51.8	6.5B											2.00	-2.29B																						
LOWER SOUTHERN 03 MECHANICSVILLE 5 NE	62.6	38.1	50.4	5.8	81	10	22	03	452	7	0	0	11	0	1.29	-2.92	0.41	14	4.0	4	04					3	0	0										
SOLOMONS	60.6M	42.9M	51.7M	5.5	77	12	30	03	411E	9E	0	0	4	0	A 1.41		0.40	06	M	1	06					3	0	0										
--DIVISIONAL DATA----->			51.1	5.9B											1.35	-2.96B																						
UPPER SOUTHERN 04 BALTIMORE WASH INTL AP	61.2	38.8	50.0	6.4	82	09	22	03	460	4	0	0	9	0	2.10	-1.80	0.56	14	2.5	2	04					5	2	0										
BELTSVILLE	59.5	39.0	49.3	5.6	80	10	23	03	482	1	0	0	7	0	1.58	-2.10	0.70	14	1.4	1	04					5	1	0										
DALECARLIA RSVR	59.9	39.5	49.7	4.2	82	10	26	03	474	9	0	0	6	0	M 1.42	-2.58	0.59	14	M 0.0	1	04					4	1	0										
MARYLAND SCIENCE CENTER	61.5	43.5	52.5	6.2	82	10	29	03	386	6	0	0	3	0	2.18	-1.68	0.70	14	M							5	2	0										
NATL ARBORETUM DC	62.6	41.5	52.1	5.9	83	10	26	03	401	8	0	0	4	0	1.39	-2.33	0.48	14	M	1	04					4	0	0										
OXON HILL	62.0	40.9	51.5	6.1	82	10	27	04+	417	5	0	0	5	0	1.09	-2.69	0.32	14	1.0	1	04					3	0	0										
UPPER MARLBORO 3 NNW	61.4	37.7	49.6	5.4	82	10	22	03	477	7	0	0	11	0	0.78	-2.98	0.25	14	M	1	04					3	0	0										
--DIVISIONAL DATA----->			50.7	6.2B											1.52	-2.50B																						
NORTHERN EASTERN SHORE 05 STEVENSVILLE 2SW	59.0	40.7	49.9	6.0	77	11	30	05+	462	0	0	0	5	0	1.66		0.77	14	3.6	3	04					3	1	0										
SUDBERSVILLE 1S															1.93		1.00	14	M 3.5	3	04					5	1	1										
--DIVISIONAL DATA----->			49.9	6.1B											1.80	-2.32B																						
NORTHERN CENTRAL 06 ABERDEEN PHILLIPS FLD	58.8	36.8	47.8	4.8	80	11	23	04+	523	1	0	0	11	0	1.94	-1.95	1.10	14	1.5	1	04					5	1	1										
BRIGHTON DAM	60.4	36.5M	48.4M		80	11	22	03	508E	0	0	0	9	0	2.39		0.60	14	0.4	0						7	2	0										
CONOWINGO DAM	56.5	35.3	45.9	3.1	78	11	22	01	583	0	0	0	10	0	1.92	-2.33	1.09	14	2.5	3	04					4	1	1										
CYLBURN	58.8	38.6	48.7	5.9	81	11+	24	03	500	4	0	0	8	0	MA 1.93		0.22	04	M	2	04					3	0	0										
DAMASCUS 3 SSW	59.0	39.7	49.4	7.2	78	09	20	03	479	3	0	0	11	0	1.96	-1.73	0.54	14	3.6	1	19					5	1	0										
EMMITSBURG 2 SE	59.6	34.5	47.0	6.1	80	11	21	03	551	3	0	0	14	0	1.85	-2.20	0.64	14	2.0	1	04					7	1	0										

MONTHLY STATION AND DIVISION SUMMARY

STATION	TEMPERATURE (°F)											PRECIPITATION (IN)																										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEG. DAYS	COOLING DEG. DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST 24 HOURS	DATE	ICE PELLETS, SNOW			NO. OF DAYS																
											MAX		MIN						TOTAL	MAX DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE														
											>=90	<=32	<=32	<=0																								
FREDERICK 2 NNE	M	M	M							0	0	0	0	M				M																				
MILLERS 4 NE	58.7	37.7	48.2	7.3	78	10	21	03	515	3	0	0	11	0	1.75	-1.97	0.59	14	2.2	T	19	6	1	0														
SMITHSBURG 2NW	59.3M	33.4M	46.3M	6.1	79	10	18	03	571E	0	0	0	16	0	M 1.00	-2.71	0.52	28	M			3	1	0														
--DIVISIONAL DATA-----> APPALACHIAN MOUNTAIN 07			47.7	5.0B										1.97	-2.06B																							
CUMBERLAND 2	60.7	35.5	48.1	4.4	83	10	21	04+	517	0	0	0	11	0	1.60	-1.77	0.95	14	M			3	1	0														
FROSTBURG 2	54.5	33.5	44.0	7.9	75	10	15	03	642	0	0	2	17	0	2.61	-1.33	1.16	14	M	M 3	20	7	1	1														
SHARPSBURG 5 S	60.2	33.2	46.7	5.5	82	10	18	04+	561	1	0	0	17	0	1.88	-1.79	0.67	28	0.6	0		3	2	0														
WILLIAMSPORT															M				M																			
--DIVISIONAL DATA-----> ALLEGHENY PLATEAU 08			46.3	5.6B										2.03	-1.39B																							
OAKLAND 1 SE	56.0	33.1	44.5	8.3	74	25+	14	03	627	0	0	1	13	0	3.31	-0.82	0.88	14	4.1	4	20	11	1	0														
SAVAGE RIVER DAM	54.0M	33.5M	43.8M	6.0	74	10	17	03	646E	0	0	1	11	0	M 2.03	-1.37	1.13	14	M 1.0	1	04	5	1	1														
SINES DEEP CREEK	54.0M	MMF	MMF		74	25	14	03	734E	0	0	1	15	0	MA 3.50		1.00	14	M 7.4	4	21	7	1	1														
--DIVISIONAL DATA-----> DELAWARE NORTHERN 01															3.31	-0.56B																						
WILMINGTON NEW CASTLE CO AP	59.4	37.9	48.6	5.6	81	09	24	03	502	2	0	0	9	0	1.80	-2.12	0.72	14	2.7	2	04	6	1	0														
WILMINGTON PORTER RSCH	M	M	M		77	10+	30	22	329E	0	0	0	1	0	2.32	-2.20	0.90	14	1.2	1	04	5	1	0														
--DIVISIONAL DATA-----> SOUTHERN 02			48.6	5.9B										2.06	-2.05B																							
DOVER	60.9	40.9	50.9	5.7	80	09	24	06+	437	10	0	0	7	0	A 2.59	-1.72	0.28	28	2.5	3	04	4	0	0														
--DIVISIONAL DATA----->			50.9	6.5B										2.59	-1.81B																							

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	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PRINCESS ANNE	M 1.69		0.07		0.47	-	-						0.06	0.01						-	-												
SALISBURY 2N	1.68		0.10		0.45								0.06	0.05	T						0.39	0.28				0.10	0.01			0.10			
SALISBURY FAA AP	1.78		0.06	0.06	0.33								0.04	0.02	0.01	0.02				0.35	0.53	0.05				0.17	T	0.02	0.08		0.04		
SNOW HILL 4 N	2.79		0.05		0.50	0.60								0.14	T		0.05				0.74		0.43			0.10	T	T	0.18				
CENTRAL																																	
EASTERN SHORE 02																																	
ROYAL OAK 2 SSW	2.00		0.08		0.25		T								0.53	0.05		0.01			0.03	0.10	0.20				T			0.75			
LOWER SOUTHERN 03																																	
MECHANICSVILLE 5 NE	1.29		0.01		0.31		T							T	0.41	0.02	T					0.07	0.09					T		0.38	T		
SOLOMONS	A 1.41		0.12				0.40							0.12	0.01				*	*	0.21 _a					*	*	0.54 _a				0.01	
UPPER SOUTHERN 04																																	
BALTIMORE WASH INTL AP	2.10	T	0.28	0.09	0.07						T		0.55	0.56	0.01						0.22	T				0.01			0.03	0.28			
BELTSVILLE	1.58		0.11		0.13		0.01							0.70		0.01																0.37	
DALECARLIA RSVR	M 1.42		0.15		-	0.02	0.01							0.59	0.02																	0.34	
MARYLAND SCIENCE CENTER	2.18		0.21	0.07	0.08								0.51	0.70							0.24								0.01	0.36			
NATL ARBORETUM DC	1.39		0.08		0.10					T				0.48	0.03	0.02	T	T				0.21	T				0.02		0.41	0.04			
OXON HILL	1.09		0.15		0.06		T				T	T	T	0.32	0.02	0.02	0.01	T				0.09	0.03				0.05		0.31	0.03			
UPPER MARLBORO 3 NNW	0.78		0.02		0.08								0.02	0.25	0.04	0.01											0.02	0.12	0.05				
NORTHERN																																	
EASTERN SHORE 05																																	
STEVENSVILLE 2SW	1.66		0.04		0.28	0.01									0.77	0.01		T				0.08	0.07						0.36	0.04			
SUDLERSVILLE 1S	1.93		0.15	T	0.18								0.20	1.00							T								0.40				
NORTHERN CENTRAL 06																																	
ABERDEEN PHILLIPS FLD	1.94	T	0.12		0.10	T								T	1.10	0.02	T					T	0.20				0.02		0.38	T			
BRIGHTON DAM	2.39				0.40									0.60	0.20	0.05						0.40					0.14		0.50	0.10			
CONOWINGO DAM	1.92		0.25		0.12									1.09													0.07		0.39				
CYLBURN	MA 1.93		0.13		0.22								*	*	0.91 _a												-	0.11	*	0.56 _a			
DAMASCUS 3 SSW	1.96		0.04	0.04	0.12		T				T	T	0.28	0.54	0.07	T				0.41	T	T			0.08		0.01	0.37					
EMMITSBURG 2 SE	1.85		0.02		0.20		0.10				T		T	0.64	T	0.01						0.25					0.11		0.34	0.18			
FREDERICK 2 NNE	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MILLERS 4 NE	1.75		0.07		0.15		T				T		0.16	0.59	0.01			0.02			0.18	0.02	T			0.16		0.39					
SMITHSBURG 2NW	M 1.00				-						0.17			-	0.04											0.02		0.52					
APPALACHIAN																																	
MOUNTAIN 07																																	
CUMBERLAND 2	1.60	0.04	0.02		0.04		0.03								0.95	0.03	T									0.07			0.19				
FROSTBURG 2	2.61	0.05	0.11		0.08		0.05				0.04	T	0.13	1.16	0.11	0.02						0.23			0.21	0.01		0.30	0.05				
SHARPSBURG 5 S	1.88				0.09		0.09				0.01		0.02	0.55	0.02	T						0.38						0.67	0.05				
WILLIAMSPORT	M	-	-		0.10		0.02				-	-	-	-	0.10	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	
ALLEGHENY PLATEAU 08																																	
OAKLAND 1 SE	3.31	0.07	0.35	0.02	0.01	0.01	0.16						0.15		0.19	0.88	0.06	0.13									0.17	0.20		0.35	0.04		0.01
SAVAGE RIVER DAM	M 2.03	0.04	-		0.15		0.10						0.07		1.13	0.04	0.08									0.12			-	0.06			
SINES DEEP CREEK	MA 3.50		0.40	0.10	0.06	*	*	0.15 _a				-	0.20		0.07	1.00	0.05	0.25			*	*	0.40 _a	0.05			0.18	*	*	0.40 _a	0.15		0.04
DELAWARE																																	
NORTHERN 01																																	
WILMINGTON NEW CASTLE CO AP	1.80		0.13	0.05	0.15								T		0.16	0.72	T	T									T		0.01	0.42		T	
WILMINGTON PORTER RSCH	2.32		0.16	T	0.06								T		0.17	0.90	0.05		0.05							T			0.40		0.40		
SOUTHERN 02																																	
DOVER	A 2.59		0.18		0.23										*	1.15 _a	0.03					*	*	0.52 _a			0.20			0.28			

MARYLAND AND DELAWARE
201603

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 ASSATEAGUE	VA	MAX MIN																																			M M
PRINCESS ANNE	17	MAX MIN	63 33	63 34	60 24	40 32				60 28	75 49	76 50	71 51			59 48	59 47	69 42	69 48	65 38			60 47	58 31	79 48	75 52	76 58						72 50	68 40	62 29	73 53	66.4 42.7
SALISBURY 2N	17	MAX MIN	65 33	63 41	42 25	31 31	42 28	46 30	60 30	76 47	77 76	74 61		42	59 53	50 50	46 42	42 40	42 40	71 65	71 45	71 42	60 38	50 34	60 30	72 29	76 53	77 63	43 46	46 47	57 45	70 61	70 30	49 49	61 75	41.7 64.3	
SALISBURY FAA AP	24	MAX MIN	63 30	63 32	42 24	36 31	41 28	46 27	59 27	75 47	76 77	73 73	59 59	61 51	58 47	60 42	70 39	70 43	65 35	49 38	45 35	50 33	58 28	72 49	75 53	77 53	59 44	58 47	70 50	60 35	58 28	52 52	74 74	61.3 39.8			
SNOW HILL 4 N	17	MAX MIN	66 29	64 42	44 21	37 31	43 23	49 23	60 22	79 45	77 43	78 54	74 59	69 39	62 50	61 51	62 46	67 38	72 44	71 32	66 39	48 41	51 33	60 27	72 47	76 44	78 60	77 44	61 45	72 48	71 41	59 26	74 42	64.5 39.6			
CENTRAL EASTERN SHORE 02 ROYAL OAK 2 SSW	17	MAX MIN	67 33	59 35	40 24	40 32	43 32	46 33	60 30	76 43	77 41	73 51	72 53	58 42	59 51	55 51	58 45	72 42	68 43	65 39	60 35	44 36	52 36	60 32	73 50	75 47	73 61	66 52	57 50	69 47	59 52	59 32	73 51	61.5 42.0			
LOWER SOUTHERN 03 MECHANICSVILLE 5 NE	07	MAX MIN	68 31	63 33	63 22	42 24	42 31	42 31	49 28	64 30	78 48	81 50	79 62	73 43	61 45	58 47	53 45	64 41	68 41	72 38	68 38	46 37	42 33	52 28	63 30	76 45	78 52	75 40	60 40	56 43	72 44	72 30	62 32	62.6 38.1			
SOLOMONS	08	MAX MIN	65 36	61 40	42 30	38 32	38 32	38 32	40 33	45 33	63 40	72 46	76 55	77 59	68 47	52 45	58 45	61 46	72 43				67 34	51 35	62 47	76 57	76 55						75 44	71 47	59 41	75 46	60.6 42.9
UPPER SOUTHERN 04 BALTIMORE WASH INTL AP	24	MAX MIN	63 33	63 27	43 22	40 31	42 27	47 29	65 28	77 47	82 40	73 57	73 50	54 42	56 47	51 45	61 44	69 42	68 39	64 42	51 35	42 35	52 31	61 28	75 45	77 43	72 47	56 38	55 46	68 46	58 38	58 30	75 50	61.2 38.8			
BELTSVILLE	08	MAX MIN	62 31	65 38	39 23	41 29	40 31	43 33	50 28	65 35	77 39	80 48	70 60	71 43	56 49	58 47	51 45	61 42	70 39	67 39	64 35	43 34	42 27	51 37	60 70	73 75	70 56	61 37	55 41	67 47	57 45	67 45	57 29	62 44	59.5 39.0		
DALECARLIA RSVR	08	MAX MIN	61 33	65 32	40 26	41 30	41 31	43 34	49 34	67 39	77 41	82 53	80 59	71 45	61 51	58 47	52 45	69 38	67 48	66 40	42 35	40 35	51 35	62 30	77 43	77 54	69 38	61 39	61 47	56 46	66 46	66 46	60 33	64 33	59.9 39.5		
MARYLAND SCIENCE CENTER	24	MAX MIN	64 41	62 32	42 29	40 32	41 33	48 38	65 35	77 52	77 46	82 60	72 56	56 49	59 48	52 46	62 46	68 48	70 49	65 48	54 36	43 36	51 36	61 37	76 47	76 48	71 50	56 40	56 47	69 47	59 45	59 41	75 51	61.5 43.5			
NATL ARBORETUM DC	07	MAX MIN	64 43	67 40	44 26	43 32	42 34	45 34	52 40	67 43	79 83	80 80	74 61	60 48	51 50	60 46	65 45	75 43	69 43	68 37	46 35	43 31	63 51	63 40	76 78	78 74	74 63	51 40	41 41	49 47	47 33	62 41	65 41	62.6 41.5			
OXON HILL	08	MAX MIN	64 38	67 38	45 27	42 27	41 31	44 34	52 33	65 35	79 46	82 61	79 49	73 51	62 47	60 44	53 45	64 45	75 44	69 44	66 36	44 35	42 31	53 32	63 52	76 52	78 39	72 39	62 47	56 46	69 46	69 46	61 35	64 37	62.0 40.9		
UPPER MARLBORO 3 NNW	08	MAX MIN	62 31	65 31	42 22	43 23	40 30	45 32	51 29	67 34	78 43	82 61	81 41	73 46	57 47	59 44	62 41	72 40	69 41	66 35	44 33	42 26	52 28	63 44	76 53	78 38	72 39	62 47	56 46	70 46	60 29	63 32	61.4 37.7				
NORTHERN EASTERN SHORE 05 STEVENSVILLE 2SW	07	MAX MIN	62 36	64 36	47 30	38 30	39 30	40 31	46 32	61 35	73 44	76 46	77 53	72 44	57 47	56 47	51 44	56 43	69 43	68 43	64 42	44 36	42 34	51 36	60 34	74 50	74 50	71 58	59 40	57 43	66 47	57 42	58 37	59.0 40.7			
NORTHERN CENTRAL 06																																					

MARYLAND AND DELAWARE
201603

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	
		MIN	36	41	24	30	27	24	30	45	53	60	58	39	48	48	44	41	42	41	37	35	30	27	47	50	62	39	46	46	44	34	41	40.9

SNOWFALL AND SNOW ON GROUND (INCHES)

STATION	DAY OF MONTH																																
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MARYLAND SOUTHERN EASTERN SHORE 01																																	
ASSATEAGUE																																	
PRINCESS ANNE																																	
SALISBURY 2N				1.8																													
SALISBURY FAA AP			1.0	4.8																													
SNOW HILL 4 N																																	
CENTRAL EASTERN SHORE 02																																	
ROYAL OAK 2 SSW				4.0																													
LOWER SOUTHERN 03																																	
MECHANICSVILLE 5 NE				4.0																													
SOLOMONS				4	T																												
UPPER SOUTHERN 04																																	
BALTIMORE WASH INTL AP			1.6	0.9																													
BELTSVILLE				2																													
DALECARLIA RSVR				1.4																													
MARYLAND SCIENCE CENTER				1																													
NATL ARBORETUM DC																																	
OXON HILL				0.1																													
UPPER MARLBORO 3 NNW																																	
NORTHERN EASTERN SHORE 05																																	
STEVENSVILLE 2SW				1.0																													
SUDLERSVILLE 1S				1																													
NORTHERN CENTRAL 06																																	
ABERDEEN PHILLIPS FLD				1.5	T																												

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

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

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

SNOWFALL AND SNOW ON GROUND (INCHES)

STATION		DAY OF MONTH																														
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
BRIGHTON DAM	SN ON GND				1																											
	SNOWFALL				0.4																											
CONOWINGO DAM	SN ON GND																															
	WTR EQUIV	-	-					-	-	-	-																					
CYLBURN	SNOWFALL				2.5																											
	SN ON GND				3																											
DAMASCUS 3 SSW	SNOWFALL	-	-	-	2.0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	SN ON GND	-	-	-	2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
EMMITSBURG 2 SE	SNOWFALL			0.5	2.0		T													1.1	T	T										
	SN ON GND			1																1												
FREDERICK 2 NNE	SNOWFALL				1.0		1.0																									
	SN ON GND				1																											
MILLERS 4 NE	SNOWFALL				1.6		T													0.6	T	T										
	SN ON GND																			T												
SMITHSBURG 2NW	SNOWFALL																															
	WTR EQUIV				-																											
CUMBERLAND 2	SNOWFALL	-	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	-	-	-	-	-	-	-	-	-		
	SN ON GND	-	T	-	1.0		1.0														2.9	T										
SHARPSBURG 5 S	SNOWFALL	-	T	-	1	1	1														3	T										
	SN ON GND				0.6																											
WILLIAMSPORT	SNOWFALL																															
	SN ON GND																															
OAKLAND 1 SE	SNOWFALL																				4.0	0.1										
	SN ON GND																				4											
SAVAGE RIVER DAM	SNOWFALL	-			1.0		T		-												T		-									
	SN ON GND	-			1		T		-												T		-									
SINES DEEP CREEK	SNOWFALL				0.4	-	-	2.0													-	-	4.0	1.0								
	SN ON GND				1	-	-														-	-	4									
WILMINGTON NEW CASTLE CO AP	SNOWFALL			0.4	2.3		T													T	T	T										
	SN ON GND				2																											
WILMINGTON PORTER RSCH	SNOWFALL			T	1.2																											
	SN ON GND			T	1																											

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

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

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

SNOWFALL AND SNOW ON GROUND (INCHES)

STATION		DAY OF MONTH																															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
SOUTHERN 02 DOVER	SNOWFALL SN ON GND				2.5 3																T	T											

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

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

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

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
	EVAP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	52.0	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	52.0	
UPPER MARLBORO 3 NNW	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	EVAP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
ALLEGHENY PLATEAU 08 SAVAGE RIVER DAM	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	EVAP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	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
ASSATEAGUE	0335	01	WORCESTER	38 4	75 13W	10	VAR	VAR		H
BALTIMORE WASH 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	CH
BRIGHTON DAM	1125	06	MONTGOMERY	39 11	77 0W	330	08	08		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	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
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
MARYLAND SCIENCE CENTER R	5718	04	BALTIMORE (CITY)	39 17	76 37W	20	24	24		H
MECHANICSVILLE 5 NE	5865	03	ST. MARY'S	38 28	76 42W	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	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 47	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	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
UPPER MARLBORO 3 NNW	9070	04	PRINCE GEORGE'S	38 51	76 46W	130	08	08	08	H
WILLIAMSPORT	9570	07	WASHINGTON	39 37	77 51W	360		06		H
DELAWARE										
DOVER	2730	02	KENT	39 9	75 30W	30	16	16		H
WILMINGTON NEW CASTLE CO AP R	9595	01	NEW CASTLE	39 40	75 36W	79	24	24		HJ
WILMINGTON PORTER RSCH	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 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).

These and other publications are available from the National Centers for Environmental Information

Hourly Precipitation Data

This publication contains hourly precipitation amounts obtained from recording rain gages located at National Weather Service, Federal Aviation Administration, and cooperative observer stations. Published data are displayed in inches and tenths or inches and hundredths at local standard time. HPD includes maximum precipitation for nine (9) time periods from 15 minutes to 24 hours, for selected stations.

Climatological Data

Monthly editions contain station daily maximum and minimum temperatures and precipitation. Some Stations provide daily snowfall, snow depth, evaporation, and soil temperature data. Each edition also contains monthly summaries for heating and cooling degree days (65 degree F base). The July issue contains a recap of monthly heating degree days and snow data for the preceding July through June.

The Annual issue contains monthly and annual averages of temperature, precipitation, temperature extremes, freeze data, soil temperatures, evaporation, and a recap of monthly cooling degree days.

Storm Data

Monthly issues contain a chronological listing, by states, of occurrences of storms and unusual weather phenomena. Reports contain information on storm paths, deaths, injuries, and property damage. An "Outstanding storms of the month" section highlights severe weather events with photographs, illustrations, and narratives. The December issue includes annual tornado, lightning, flash flood, and tropical cyclone summaries.

Monthly Climatic Data for the World

This publication contains monthly means for temperature, pressure, precipitation, vapor pressure, and sunshine for approximately 2,000 surface data collection stations worldwide and monthly mean upper air temperatures, dew point depressions, and wind velocities for approximately 500 observing sites.

Local Climatological Data

LCD publications summarize temperature, relative humidity, precipitation, cloudiness, wind speed and direction observations for several hundred cities in the U.S. and its territories. Each monthly publication also contains 3 hourly weather observations for that month and a hourly summary of precipitation. Annual LCD publications contain a summary of the past calendar year as well as historical averages and extremes.

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