



CLIMATOLOGICAL DATA ANNUAL SUMMARY MARYLAND AND DELAWARE

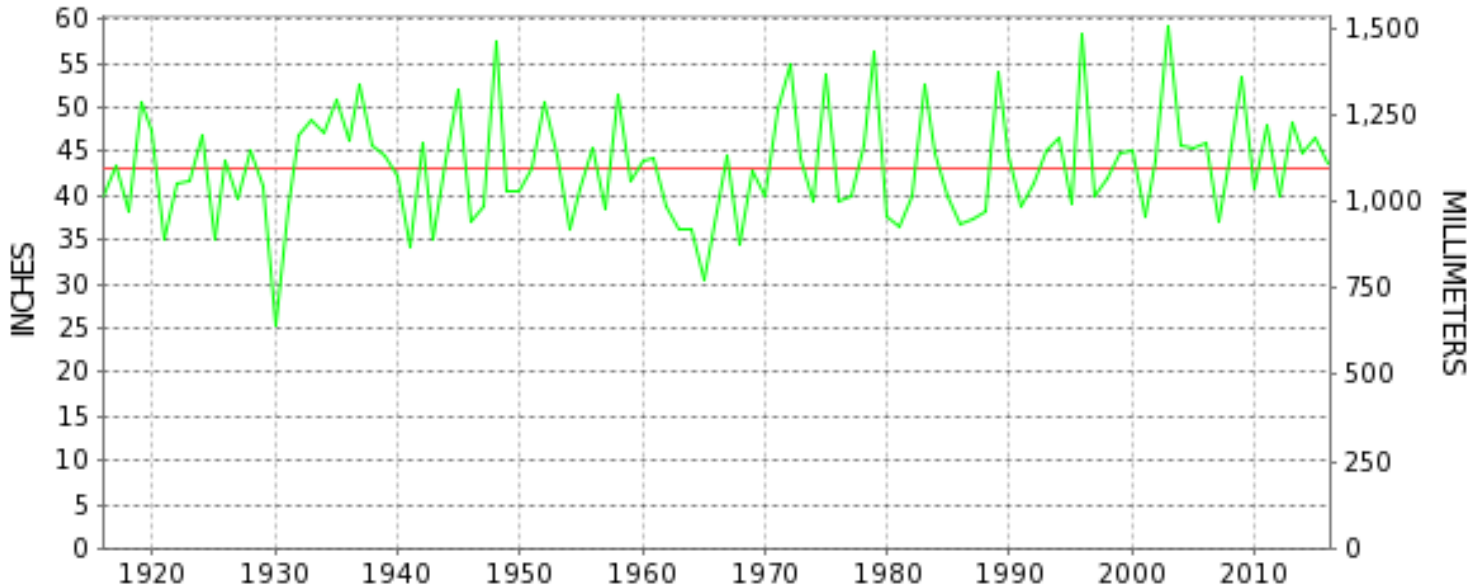
2016

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YEARLY TOTAL PRECIPITATION



— Yearly Precip. — Long Term Average 43.13 in.

MARYLAND AND DELAWARE PRECIPITATION 1916-2016

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TOTAL PRECIPITATION AND DEPARTURE FROM NORMAL (INCHES)

MARYLAND AND DELAWARE
2016

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.
MARYLAND												
SOUTHERN EASTERN SHORE 01												
ASSATEAGUE	M		M		M		M		M		M	
PRINCESS ANNE	M		M		M 1.69	-2.67	M 3.48	-0.02	MA 8.18	4.60	M 8.86	5.33
SALISBURY 2N	3.97		M 4.03		1.68		4.10		5.48		7.26	
SALISBURY FAA AP //	3.21	-0.40	3.64	0.29	1.78	-2.64	3.67	0.12	6.43	2.81	6.33	2.62
SNOW HILL 4 N	3.23	-0.34	5.65	2.51	2.79	-1.73	M 1.91	-1.57	6.84	3.32	6.44	2.97
--DIVISIONAL DATA----->	3.47	-0.53	4.65	1.23	2.08	-2.40	3.89	0.63	6.25	2.63	6.68	3.30
CENTRAL EASTERN SHORE 02												
ROYAL OAK 2 SSW	M 2.86	-0.74	4.83	1.70	2.00	-2.36	2.28	-1.58	7.58	3.39	2.97	-0.89
--DIVISIONAL DATA----->	M	M	4.83	1.52	2.00	-2.29	2.28	-1.11	7.58	3.67	2.97	-0.58
LOWER SOUTHERN 03												
MECHANICVILLE 5 NE	3.73	0.50	3.56	0.48	1.29	-2.92	2.57	-0.93	9.26	5.06	3.94	-0.13
SOLOMONS	2.75		MA 2.68		1.41		MA 2.51		6.80		2.89	
--DIVISIONAL DATA----->	3.24	-0.48	3.56	0.54	1.35	-2.96	2.57	-0.63	8.03	3.89	3.42	-0.36
UPPER SOUTHERN 04												
BALTIMORE-WASHINGTON INTL AP	3.50	0.45	5.70	2.80	2.10	-1.80	1.31	-1.88	5.24	1.25	3.20	-0.26
BALTIMORE WASHINGTON INTL CLIM	M		M		0.38		M		M		0.00	
BELTSVILLE	2.84	-0.02	4.08	1.48	1.58	-2.10	1.86	-1.49	5.15	0.83	4.70	1.00
DALECARLIA RSVR	M 1.12	-1.90	M 5.09	2.06	M 1.42	-2.58	M 2.21	-1.45	M 6.75	2.31	M 3.22	-0.99
MARYLAND SCI CTR	3.28	0.36	5.32	2.72	2.18	-1.68	1.59	-1.63	3.81	0.32	3.48	0.21
NATL ARBORETUM DC	3.39	0.30	M 3.95	1.05	1.39	-2.33	1.99	-1.52	5.89	1.61	3.16	-0.92
OXON HILL	3.06	0.04	4.49	1.56	1.09	-2.69	1.92	-1.48	5.83	1.47	3.69	-0.67
UPPER MARLBORO 3 NNW	3.31	0.43	3.10	0.38	0.78	-2.98	M 1.20	-2.35	M		M	
--DIVISIONAL DATA----->	3.23	-0.32	4.54	1.62	1.36	-2.66	1.73	-1.61	5.18	0.74	3.04	-0.62
NORTHERN EASTERN SHORE 05												
STEVENSVILLE 2SW	1.92		3.46		1.66		1.43		6.28		5.54	
SUDLERSVILLE 1S	3.01		4.36		1.93		1.99		7.65		3.39	
--DIVISIONAL DATA----->	2.47	-1.18	3.91	0.89	1.80	-2.32	1.71	-1.68	6.97	2.82	4.47	0.53
NORTHERN CENTRAL 06												
ABERDEEN PHILLIPS FLD	2.43	-0.73	4.15	1.27	1.94	-1.95	M 0.60	-3.07	4.72	0.77	3.57	-0.25
BRIGHTON DAM	M 3.70		M 4.27		2.39		F 1.46		M 8.64		4.22	
CONOWINGO DAM	4.58	1.14	M 3.86	1.01	1.92	-2.33	1.49	-2.44	F 5.16	1.20	2.10	-2.08
CYLBURN	MA 4.49		MA 3.84		MA 1.93		1.85		MA 4.86		MA 4.55	
DAMASCUS 3 SSW	4.91	1.54	4.30	1.13	1.96	-1.73	2.24	-1.39	5.13	0.96	5.18	1.04
EMMITSBURG 2 SE	4.73	1.55	4.32	1.62	1.85	-2.20	1.69	-2.22	5.61	1.27	5.62	1.70
FREDERICK 2 NNE	M		M		M		M		M		M	
MILLERS 4 NE	4.77	1.56	4.92	1.73	1.75	-1.97	2.71	-1.00	5.41	1.15	3.91	0.52
REISTERSTOWN 2 NW	M		M		M		M		M		M	
SMITHSBURG 2NW	M 1.67	-0.99	M 4.95	2.21	M 1.00	-2.71	2.18	-1.63	M 6.62	2.48	3.82	-0.37
--DIVISIONAL DATA----->	4.28	0.68	4.42	1.50	1.97	-2.06	2.03	-1.50	5.22	0.60	4.06	0.01
APPALACHIAN MOUNTAIN 07												
CUMBERLAND 2	3.02	0.36	2.37	0.00	1.60	-1.77	1.31	-1.99	5.17	1.15	4.07	0.79

TOTAL PRECIPITATION AND DEPARTURE FROM NORMAL (INCHES)

MARYLAND AND DELAWARE
2016

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.
MARYLAND														
SOUTHERN EASTERN SHORE 01														
ASSATEAGUE	M		M		M		M		M		M			
PRINCESS ANNE	M 6.09	1.76	M 1.83	-2.83	M 15.00	11.16	M 4.57	1.27	M 0.87	-2.52	M 2.10	-1.74		
SALISBURY 2N	6.72		3.39		14.46		4.18		0.47		3.13		M 58.87	
SALISBURY FAA AP //	6.54	2.16	2.70	-1.73	12.86	8.88	4.04	0.55	0.54	-2.89	2.93	-0.78	54.67	8.99
SNOW HILL 4 N	2.49	-1.90	2.20	-2.70	20.39	15.99	0.97	-2.56	0.68	-2.84	3.99	0.32	M 57.58	11.47
--DIVISIONAL DATA----->	5.25	0.94	2.76	-1.98	15.90	12.14	3.06	-0.31	0.56	-2.62	3.35	-0.05	57.90	12.98
CENTRAL EASTERN SHORE 02														
ROYAL OAK 2 SSW	5.58	1.21	1.93	-2.34	5.63	1.62	3.31	-0.41	0.56	-3.09	3.33	-0.41	M 42.86	-3.90
--DIVISIONAL DATA----->	5.58	1.39	1.93	-2.33	5.63	1.81	3.31	0.07	0.56	-2.73	3.33	-0.16		-0.74
LOWER SOUTHERN 03														
MECHANICSVILLE 5 NE	3.55	-0.76	3.27	-0.61	12.42	8.14	3.75	0.05	0.47	-3.12	3.10	-0.60	50.91	5.16
SOLOMONS	3.30		2.36		MA 8.45		MA 4.01		MA 0.69		MA 3.83		M 41.68	
--DIVISIONAL DATA----->	3.43	-0.79	2.82	-1.31	12.42	8.25	3.75	0.27	0.47	-2.80	3.10	-0.21	48.16	3.41
UPPER SOUTHERN 04														
BALTIMORE-WASHINGTON INTL AP	6.09	2.02	3.96	0.67	4.36	0.33	0.78	-2.55	1.51	-1.79	2.77	-0.60	40.52	-1.36
BALTIMORE WASHINGTON INTL CLIM	M		M		M		M		M		M			
BELTSVILLE	5.86	1.92	4.22	0.95	2.99	-1.09	0.73	-2.94	0.35	-2.89	3.72	0.59	38.08	-3.76
DALECARLIA RSVR	5.73	1.14	M 2.18	-1.68	M 4.40	0.23	M 0.77	-3.07	M 0.39	-3.23	M 3.84	0.62	M 37.12	-8.54
MARYLAND SCI CTR	6.10	1.48	4.11	0.72	5.26	1.17	0.63	-2.42	1.47	-1.50	2.34	-1.07	39.57	-1.32
NATL ARBORETUM DC	5.78	1.46	2.68	-0.73	M 2.78	-0.98	0.93	-2.86	0.38	-3.09	3.94	0.74	M 36.26	-7.27
OXON HILL	3.73	-0.62	2.83	-0.79	4.47	0.34	1.53	-2.19	0.40	-3.20	3.30	0.03	36.34	-8.20
UPPER MARLBORO 3 NNW	M		M		M		M		M		M			
--DIVISIONAL DATA----->	5.55	1.41	3.56	-0.39	4.27	0.09	0.92	-2.56	0.82	-2.56	3.21	-0.18	37.41	-7.04
NORTHERN EASTERN SHORE 05														
STEVENSVILLE 2SW	8.26		3.91		4.37		2.32		0.44		3.04		42.63	
SUDLERSVILLE 1S	7.43		3.06		6.91		3.06		0.69		2.65		46.13	
--DIVISIONAL DATA----->	7.85	3.80	3.49	-0.37	5.64	1.36	2.69	-0.68	0.57	-2.70	2.85	-0.78	44.42	-0.31
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FLD	4.41	0.00	3.24	-0.52	6.04	1.52	1.00	-2.76	1.12	-2.30	3.86	0.28	M 37.08	-7.74
BRIGHTON DAM	6.84		2.51		M 4.34		0.70		0.94		M 4.12		M 44.13	
CONOWINGO DAM	4.05	-0.24	F 2.09	-1.82	3.75	-1.20	0.97	-3.15	1.45	-2.09	3.09	-0.94	M 34.51	-12.94
CYLBURN	MA 4.07		MA 7.10		5.68		1.25		0.75		M 3.46		M 43.83	
DAMASCUS 3 SSW	8.31	4.19	2.98	-1.31	4.68	0.17	0.58	-3.14	2.47	-1.45	2.53	-1.10	45.27	-1.09
EMMITSBURG 2 SE	4.47	0.82	2.35	-1.05	3.87	-0.37	0.80	-2.58	1.45	-2.16	4.04	0.71	40.80	-2.91
FREDERICK 2 NNE	M		M		M		M		M		M			
MILLERS 4 NE	5.49	1.50	3.89	0.17	6.86	2.39	1.56	-2.19	1.94	-1.65	3.57	-0.07	46.78	2.14
REISTERSTOWN 2 NW	M		M		M		M		M 1.44		M 4.06			
SMITHSBURG 2NW	4.59	0.85	1.01	-2.13	3.43	-0.61	0.88	-2.36	M 0.91	-2.75	3.32	-0.03	M 34.38	-8.04
--DIVISIONAL DATA----->	5.45	1.49	2.66	-1.18	4.90	0.57	0.97	-2.54	1.45	-2.17	3.40	-0.10	40.81	-4.70
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	3.16	-0.40	3.71	0.54	3.75	0.52	2.16	-0.41	0.69	-2.29	3.35	0.50	34.36	-3.00

TOTAL PRECIPITATION AND DEPARTURE FROM NORMAL (INCHES)

MARYLAND AND DELAWARE
2016

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.
FROSTBURG 2	3.19	-0.13	2.43	-0.69	2.61	-1.33	1.87	-2.00	5.67	0.79	6.38	2.38
SHARPSBURG 5 S	M		M		1.88	-1.79	1.60	-2.02	5.58	1.42	5.91	2.03
WILLIAMSPORT	M		M		M		M		M		M	
--DIVISIONAL DATA----->	3.11	0.01	2.40	-0.22	2.03	-1.39	1.59	-1.80	5.47	1.26	5.45	1.93
ALLEGHENY PLATEAU 08												
OAKLAND 1 SE	3.65	0.11	2.53	-0.67	3.31	-0.82	4.46	0.59	7.23	2.09	4.40	-0.02
SAVAGE RIVER DAM	3.94	1.19	1.87	-0.56	M 2.03	-1.37	1.52	-1.81	5.43	0.91	M 3.25	-0.65
SINES DEEP CREEK	MA 3.70		MA 3.20		MA 3.50		MA 3.97		6.53		5.20	
--DIVISIONAL DATA----->	3.80	0.25	2.20	-0.89	3.31	-0.56	2.99	-0.85	6.40	1.86	4.80	0.59
DELAWARE												
NORTHERN 01												
WILMINGTON NEW CASTLE CO AP	2.30	-0.71	4.43	1.75	1.80	-2.12	1.84	-1.66	7.30	3.35	3.69	-0.19
WILMINGTON PORTER RSCH	F 1.00	-2.71	4.80	1.81	F 1.92	-2.60	3.15	-1.06	7.27	2.89	2.94	-1.25
--DIVISIONAL DATA----->	2.30	-1.40	4.62	1.78	1.80	-2.31	2.50	-1.13	7.29	2.87	3.32	-0.58
SOUTHERN 02												
DOVER	F 1.64	-1.77	3.95	0.88	2.59	-1.72	2.04	-1.84	6.13	1.88	4.11	0.11
FRANKFORD	M		M		M		M		M		M	
--DIVISIONAL DATA----->	M	M	3.95	0.77	2.59	-1.81	2.04	-1.43	6.13	2.01	4.11	0.70

TOTAL PRECIPITATION AND DEPARTURE FROM NORMAL (INCHES)

MARYLAND AND DELAWARE
2016

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.
FROSTBURG 2	2.82	-1.18	2.34	-1.26	6.01	2.33	3.19	0.15	1.02	-2.65	4.37	1.08	41.90	-2.51
SHARPSBURG 5 S	5.72	1.62	2.62	-0.61	5.08	1.08	0.88	-2.53	0.71	-2.69	3.05	-0.10		
WILLIAMSPORT	M		M		M		M		M 0.34	-3.08	M 2.09	-1.01		
--DIVISIONAL DATA----->	3.90	0.26	2.89	-0.56	4.95	1.46	2.08	-1.00	0.81	-2.46	3.59	0.72	38.27	-1.79
ALLEGHENY PLATEAU 08														
OAKLAND 1 SE	4.18	-1.28	4.00	0.22	2.66	-0.79	6.46	3.31	1.56	-2.27	6.81	2.96	51.25	3.43
SAVAGE RIVER DAM	M 1.81	-2.51	1.83	-1.50	5.47	2.15	2.52	-0.14	1.06	-1.94	M 4.22	1.42	M 34.95	-4.81
SINES DEEP CREEK	MA 4.27		MA 3.43		MA 2.43		4.34		MA 1.48		MA 5.60		M 47.65	
--DIVISIONAL DATA----->	4.18	-0.69	2.92	-0.99	4.07	0.47	4.44	1.41	1.31	-2.25	6.81	3.23	47.23	1.58
DELAWARE														
NORTHERN 01														
WILMINGTON NEW CASTLE CO AP	6.35	1.78	1.55	-1.70	4.80	0.48	2.22	-1.20	1.91	-1.19	2.59	-0.89	40.78	-2.30
WILMINGTON PORTER RSCH	5.44	0.08	1.48	-2.19	6.29	1.39	2.11	-1.70	2.07	-1.41	3.98	-0.12	42.45	-6.87
--DIVISIONAL DATA----->	5.90	1.40	1.52	-2.20	5.55	1.23	2.17	-1.19	1.99	-1.39	3.29	-0.33	42.25	-3.25
SOUTHERN 02														
DOVER	7.49	3.40	2.84	-1.52	10.33	6.20	2.43	-0.99	0.52	-2.96	2.49	-1.16	46.56	0.51
FRANKFORD	M		M		M		M		M		M			
--DIVISIONAL DATA----->	7.49	3.57	2.84	-2.05	10.33	6.18	2.43	-0.95	0.52	-2.77	2.49	-1.05		3.17

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL(°F)

MARYLAND AND DELAWARE
2016

STATION	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL			
	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.		
MARYLAND																												
SOUTHERN EASTERN SHORE 01																												
ASSATEAGUE	M		M		M		M		M		M		M		M		M		M		M		M		M		M	
PRINCESS ANNE	MM		MM		54.6M	8.9	56.1M	1.2	62.4M	-1.2	72.6M	0.5	MM		78.3M	3.9	MM		MM		50.4M	1.3	40.1M	0.7	M		M	
SALISBURY 2N	37.8M		41.2M		53.0M		55.7M		63.7M		73.0M		79.9		79.3M		73.4		62.6		50.4		40.7		M	59.2		
SALISBURY FAA AP	35.6	0.2	40.1	2.4	50.5	5.8	53.3	-0.7	61.5	-1.1	71.8	-0.2	79.5	2.7	78.7	3.8	72.3	4.1	61.1	3.9	48.7	0.5	39.7	0.7	M	57.7	1.7	
SNOW HILL 4 N	37.8F	0.5	41.5	2.0	52.1	5.7	55.3M	-0.5	61.5	-3.2	72.5	-1.1	79.1	1.7	77.0	1.3	71.0	1.2	61.6	2.5	50.2	0.2	39.3	-1.4	M	58.2	0.6	
--DIVISIONAL DATA----->	37.1	1.1	40.9	3.1	52.6	7.3	55.1	1.0	62.3	-0.9	72.5	0.7	79.5	2.8	78.3	3.0	72.2	2.9	61.8	3.5	49.9	1.1	40.0	-0.3	M	58.5	2.1	
CENTRAL EASTERN SHORE 02																												
ROYAL OAK 2 SSW	36.8	0.5	39.6	0.7	51.8	5.3	55.1	-1.2	61.8	-3.6	74.3	-0.2	81.2	2.6	81.6	4.7	74.4	4.2	62.7	3.1	50.6	0.6	40.3	0.2	59.2	1.3		
--DIVISIONAL DATA----->	36.8	2.0	39.6	2.7	51.8	6.5	55.1	0.6	61.8	-2.5	74.3	1.4	81.2	3.5	81.6	5.7	74.4	5.2	62.7	4.5	50.6	2.5	40.3	1.0	59.2	2.8		
LOWER SOUTHERN 03																												
MECHANICSVILLE 5 NE	32.5	-1.5	37.7	0.8	50.4	5.8	52.8	-1.8	59.7	-2.8	71.4	0.1	76.8	1.3	76.7	3.0	70.1	3.6	58.4	2.8	47.2	0.1	38.0	0.7	56.0	1.0		
SOLOMONS	MM		39.0M	-0.3	51.7M	5.5	MM		64.0M	-1.6	MM		MM		MM		MM		MM		MM		MM		M			
--DIVISIONAL DATA----->	32.5	-1.5	38.4	1.5	51.1	5.9	52.8	-1.4	61.9	-1.5	71.4	-0.3	76.8	0.5	76.7	2.0	70.1	2.0	58.4	1.5	47.2	-0.1	38.0	-0.8	M	56.3	0.7	
UPPER SOUTHERN 04																												
BALTIMORE-WASHINGTON INTL AP	31.9	-1.0	37.4	1.6	50.0	6.4	54.0	0.3	61.5	-1.4	73.0	0.6	79.7	2.7	79.1	4.0	72.3	4.5	59.6	3.5	48.6	2.1	38.3	1.6	57.1	2.0		
BELTSVILLE	31.3	-1.6	36.5	0.8	49.3	5.6	53.3	-0.4	61.2	-2.2	73.0	0.1	79.4	2.1	79.0	3.2	72.9	4.5	59.8	3.4	47.4	0.6	38.9	2.0	56.8	1.4		
DALECARLIA RSVR	32.0	-2.2	35.9M	-1.9	49.7	4.2	54.9M	-1.3	61.8M	-3.3	74.3M	0.2	79.9	1.6	79.6M	2.8	73.3M	3.6	60.1M	2.3	47.9M	0.3	39.0M	1.4	M	57.4	0.6	
MARYLAND SCI CTR	34.7	-1.1	39.4	0.8	52.5	6.2	56.2	-0.4	63.7	-2.4	75.6	-0.5	82.8	2.1	81.9	2.9	75.0	3.0	62.6	2.5	51.8M	1.5	41.4	2.0	M	59.8	1.3	
NATL ARBORETUM DC	33.9	-1.6	39.5	1.1	52.1	5.9	55.5	-0.9	64.2	-1.7	76.4	1.3	81.7	2.1	81.8	3.8	75.3M	5.0	62.4	3.9	49.5	0.7	40.5	1.3	M	59.4	1.7	
OXON HILL	33.0	-2.1	38.7	0.8	51.5	6.1	54.4	-2.1	61.5	-3.5	74.4	0.0	80.0	1.7	80.0	3.1	73.8	4.1	60.5	2.6	49.3	0.9	40.3	1.7	58.1	1.0		
UPPER MARLBORO 3 NNW	32.0	-1.5	37.4M	1.2	49.6	5.4	53.7M	-0.6	M		MM		M		M		M		M		M		M		M			
--DIVISIONAL DATA----->	32.7	-0.6	37.8	1.5	50.7	6.2	54.6	0.5	62.3	-1.3	74.5	2.2	80.6	3.5	80.2	4.8	73.8	5.5	60.8	4.4	49.1	2.4	39.7	2.1	58.1	2.6		
NORTHERN EASTERN SHORE 05																												
STEVENSVILLE 2SW	34.1	-0.2	37.7	0.9	49.9	6.0	53.4	-1.3	61.5	-1.8	74.8	1.1	80.9	4.0	80.4	4.2	73.5	3.9	61.4	2.1	50.1	0.9	39.9	0.7	58.1	1.6		
--DIVISIONAL DATA----->	34.1	1.4	37.7	2.4	49.9	6.1	53.4	0.1	61.5	-1.5	74.8	3.1	80.9	4.3	80.4	5.5	73.5	5.7	61.4	4.9	50.1	3.6	39.9	2.6	58.1	3.1		
NORTHERN CENTRAL 06																												
ABERDEEN PHILLIPS FLD	31.6	-2.0	38.1M	2.5	47.8	4.8	52.6	-1.5	60.5	-2.0	72.1	-0.1	78.4	1.2	77.7	2.4	71.4	3.6	58.3	1.9	46.4	-0.6	38.1	0.8	M	56.1	0.8	
BRIGHTON DAM	31.1M		34.4		48.4M		52.9M		59.9M		71.5M		77.6M		77.7M		70.3M		58.1		46.1M		37.3M		M	55.4		
CONOWINGO DAM	29.7	-2.2	32.7MF	-2.0	45.9	3.1	51.1	-2.4	59.2	-4.6	71.1	-2.6	76.9	-1.3	76.8	0.3	70.5	1.5	57.2	0.3	44.2	-2.0	35.2	-1.4	M	54.2	-1.2	
CYLBURN	32.8	0.2	37.2	1.5	48.7	5.9	53.0	-0.3	63.1	1.0	72.4	2.3	78.2	3.9	79.6	6.7	70.9	5.3	59.5	4.0	47.4	1.7	M		M	58.4	4.5	
DAMASCUS 3 SSW	30.3	-1.1	35.0	0.7	49.4	7.2	52.9	-0.2	60.1	-1.6	70.7	0.3	76.5	2.2	76.1	3.1	68.9	3.2	57.9	3.1	47.5	2.3	35.8	0.5	55.1	1.6		
EMMITSBURG 2 SE	28.6	-1.6	33.4	1.0	47.0	6.1	50.7	-0.4	59.2	-1.5	70.3	0.5	76.1	1.6	76.5	3.8	69.8	4.7	56.9	2.9	44.7	0.8	36.3	2.0	54.1	1.5		
FREDERICK 2 NNE	M		M		M		M		M		M		M		M		M		M		M		M		M			
MILLERS 4 NE	30.3	0.2	34.4	1.2	48.2	7.3	51.9	0.2	59.9	-0.9	70.7	1.3	76.1	2.7	75.9	3.9	69.8	4.9	57.9	3.7	47.2	2.8	35.4	1.2	54.8	2.3		
REISTERSTOWN 2 NW	M		M		M		M		M		M		M		M		M		MMF		47.5M		37.1M		M			
SMITHSBURG 2NW	26.4M	-3.6	31.9M	-0.7	46.3M	6.1	49.8M	-1.7	57.9M	-2.4	70.1	-0.4	75.4	0.9	75.4	2.3	70.0	4.7	55.8	2.1	43.0M	-1.0	34.7	1.2	M	53.1	0.6	
--DIVISIONAL DATA----->	30.1	-1.1	34.6	0.6	47.7	5.0	51.9	-0.4	60.0	-2.3	71.1	0.4	76.9	1.6	77.0	3.5	70.2	3.6	57.7	2.4	46.0	1.1	36.2	0.4	55.0	1.3		
APPALACHIAN MOUNTAIN 07																												
CUMBERLAND 2	28.4	-3.5	34.3	-0.5	48.1	4.4	53.2	-1.3	60.7	-3.1	72.4	-0.2	77.7	0.9	77.7	2.3	70.9	3.5	57.7	1.7	47.6	2.2	36.0	0.4	55.4	0.5		

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL(°F)

MARYLAND AND DELAWARE
2016

STATION	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.	TEMPERATURE	DEPARTURE.
FROSTBURG 2	23.2	-2.8	30.0	1.4	44.0	7.9	47.8	0.3	55.4	-1.2	66.6	1.5	71.4	2.4	72.2	4.4	66.3	5.3	53.0	3.0	43.0	2.5	30.6	0.7	50.3	2.0
SHARPSBURG 5 S	M		M		46.7	5.5	50.7	-0.6	59.5	-1.6	70.4	0.2	75.9	1.8	76.1	3.3	70.2M	4.6	57.8	3.2	45.1	0.6	35.4	1.8	M	
--DIVISIONAL DATA----->	25.8	-3.2	32.2	0.1	46.3	5.6	50.6	-0.1	58.5	-1.8	69.8	1.3	75.0	2.2	75.3	4.1	69.1	5.0	56.2	3.5	45.2	2.5	34.0	0.5	53.2	1.7
ALLEGHENY PLATEAU 08																										
OAKLAND 1 SE	23.3	-1.8	30.4	2.6	44.5	8.3	48.4	1.8	57.5	1.4	68.3	3.9	72.6	4.2	73.0	6.1	66.1	6.1	54.3	4.9	43.2	3.9	33.0	3.2	51.2	3.6
SAVAGE RIVER DAM	24.6	-2.7	30.4	0.5	43.8M	6.0	48.6	-0.1	56.7	-1.0	67.3M	1.1	72.1M	1.9	73.4	4.3	67.1	5.1	53.7	2.9	43.0	1.8	33.4M	2.1	M 51.2	1.7
SINES DEEP CREEK	MM		MM		MMF		46.6M		55.1M		MMF		MM		69.4M		MM		MM		MM		MM		M	
--DIVISIONAL DATA----->	24.0	-1.8	30.4	1.9	44.2	7.2	47.9	0.9	56.4	-0.1	67.8	3.4	72.4	3.8	71.9	4.8	66.6	6.1	54.0	4.8	43.1	3.5	33.2	2.8	51.0	3.1
DELAWARE																										
NORTHERN 01																										
WILMINGTON NEW CASTLE CO AP	32.2	-0.2	36.5	1.4	48.6	5.6	52.6	-0.7	61.8	-1.0	72.2	0.0	79.4	2.6	79.2	4.0	71.9	4.1	59.0	2.8	48.5	1.9	37.9	1.2	56.7	1.8
WILMINGTON PORTER RSCH	31.7	-0.1	32.9M	-1.7	MM		MM		61.9	-0.5	71.7	0.0	78.2M	2.0	77.5	2.9	70.3	3.1	57.1	1.3	46.7	0.5	36.0	-0.2	M	
--DIVISIONAL DATA----->	32.0	0.3	34.7	0.4	48.6	5.9	52.6	0.2	61.9	-0.7	72.0	0.6	78.8	2.6	78.4	3.9	71.1	3.7	58.1	2.3	47.6	1.8	37.0	0.4	56.1	1.8
SOUTHERN 02																										
DOVER	35.2	0.0	39.4	1.4	50.9	5.7	55.3	0.3	61.8	-2.4	73.1	-0.2	79.9	2.2	79.6	3.5	73.5	3.8	61.5	2.8	50.5	1.3	39.5	0.3	58.4	1.5
--DIVISIONAL DATA----->	35.2	0.6	39.4	3.0	50.9	6.5	55.3	2.1	61.8	-1.1	73.1	1.4	79.9	3.4	79.6	4.8	73.5	5.2	61.5	4.2	50.5	2.8	39.5	0.5	58.4	2.8

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

MARYLAND AND DELAWARE
2016

STATION	HIGHEST	DATE	LOWEST	DATE	LAST SPRING MINIMUM OF										FIRST FALL MINIMUM OF										NUMBER OF DAYS BETWEEN DATES					
					16° OR BELOW		20° OR BELOW		24° OR BELOW		28° OR BELOW		32° OR BELOW		32° OR BELOW		28° OR BELOW		24° OR BELOW		20° OR BELOW		16° OR BELOW		16° OR BELOW	20° OR BELOW	24° OR BELOW	28° OR BELOW	32° OR BELOW	
					DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.						
MARYLAND																														
SOUTHERN EASTERN SHORE 01																														
ASSATEAGUE					MSG		MSG		MSG		MSG		MSG		NONE		NONE		NONE		NONE		NONE							
PRINCESS ANNE	96	08/15	12	01/06	01/25	16	01/25	16	03/03	24	04/06	26	04/07	30	11/08	32	11/14	28	12/15	17	12/15	17	12/16	16	326	325	287	222	215	
SALISBURY 2N	96	08/15	10	02/14	02/14	10	02/19	20	02/27	23	04/06	26	04/10	29	11/13	30	11/23	26	12/10	24	12/11	18	12/15	12	305	296	287	231	217	
SALISBURY FAA AP	98	08/14	10	02/14	02/14	10	02/19	20	04/06	24	04/06	24	04/16	32	11/08	32	11/13	27	12/10	23	12/15	17	12/16	16	306	300	248	221	206	
SNOW HILL 4 N	98	08/14	8	12/15	02/14	8	02/27	20	04/06	21	04/11	28	05/16	30	10/25	27	10/25	27	11/13	23	12/10	17	12/15	8	305	287	221	197	162	
CENTRAL EASTERN SHORE 02																														
ROYAL OAK 2 SSW	97	08/14	13	01/25	02/14	14	02/19	19	03/03	24	04/06	27	04/06	27	11/13	32	11/23	26	12/11	24	12/16	17	NONE		301	283	231	221		
LOWER SOUTHERN 03																														
MECHANICSVILLE 5 NE	96	07/26	9	02/14	02/15	10	02/20	18	04/07	24	04/11	27	04/15	31	11/12	32	11/15	24	11/15	24	12/16	13	12/16	13	305	300	222	218	211	
SOLOMONS	100	07/25	13	02/13	02/13	13	02/14	20	02/14	20	02/28	28	04/09	32	12/09	30	12/15	26	12/16	18	12/16	18	NONE		306	306	291	244		
UPPER SOUTHERN 04																														
BALTIMORE-WASHINGTON INTL AP	100	07/25	8	02/14	02/14	8	02/19	18	04/06	24	04/10	26	04/10	26	10/26	32	11/14	28	11/23	23	12/15	14	12/15	14	305	300	231	218	199	
BELTSVILLE	100	07/26	8	01/25	02/15	12	02/19	18	03/03	23	04/10	27	04/14	32	10/26	32	11/13	26	11/23	23	12/16	15	12/16	15	305	301	265	217	195	
DALECARLIA RSVR	100	08/14	10	02/14	02/15	13	02/19	20	02/19	20	04/06	28	04/11	31	11/12	32	11/13	28	12/11	24	12/16	14	12/16	14	305	301	296	221	215	
MARYLAND SCI CTR	101	07/25	12	02/14	02/14	12	02/15	20	02/15	20	02/27	28	04/10	31	12/09	30	12/15	18	12/15	18	12/15	18	NONE		304	304	292	243		
NATL ARBORETUM DC	99	08/15	11	01/25	02/15	16	02/19	20	02/19	20	04/06	28	04/10	31	11/13	31	11/23	27	12/16	16	12/16	16	12/16	16	305	301	301	231	217	
OXON HILL	99	08/14	11	02/14	02/15	13	02/19	20	02/27	24	04/07	28	04/11	32	11/13	31	12/09	28	12/16	16	12/16	16	12/16	16	305	301	293	246	216	
UPPER MARLBORO 3 NNW	92	06/12	8	01/26	02/15	10	02/20	17	04/06	24	04/10	26	04/14	31	NONE		NONE		NONE		NONE		NONE							
NORTHERN EASTERN SHORE 05																														
STEVENSVILLE 2SW	98	08/15	13	02/15	02/15	13	02/16	18	02/20	22	02/20	22	04/11	32	12/09	30	12/16	17	12/16	17	12/16	17	NONE		304	300	300	242		
NORTHERN CENTRAL 06																														
ABERDEEN PHILLIPS FLD	97	07/26	8	01/26	02/12	14	02/20	20	03/04	23	04/06	28	04/11	29	10/26	31	11/13	26	11/23	24	12/16	13	12/16	13	308	300	264	221	198	
BRIGHTON DAM	96	07/26	6	02/14	02/19	16	02/20	20	04/07	23	04/10	26	04/14	32	10/26	31	11/02	26	11/23	21	12/17	12	12/17	12	302	301	230	206	195	
CONOWINGO DAM	95	08/15	7	02/15	02/15	7	02/20	20	03/01	22	04/07	26	04/11	30	11/12	32	11/13	27	12/10	24	12/16	12	12/16	12	305	300	284	220	215	
CYLBURN	97	09/11	8	02/14	02/15	9	02/19	19	03/03	24	04/10	27	04/11	31	11/12	32	11/23	27	NONE		NONE		NONE							
DAMASCUS 3 SSW	97	07/25	4	02/14	02/15	16	03/03	20	04/10	23	04/10	23	04/10	23	11/12	28	11/12	28	12/09	24	12/11	20	12/15	12	304	283	243	216	216	
EMMITSBURG 2 SE	97	07/26	4	01/26	02/20	16	02/20	16	04/07	22	04/11	25	04/15	31	10/26	27	10/26	27	11/13	24	11/23	19	12/16	13	300	277	220	198	194	
FREDERICK 2 NNE					MSG		MSG		MSG		MSG		MSG		NONE		NONE		NONE		NONE		NONE							
MILLERS 4 NE	94	08/13	0	02/14	02/19	16	02/19	16	04/10	23	04/10	23	04/14	30	10/26	29	11/23	25	12/09	24	12/11	20	12/15	13	300	296	243	227	195	
REISTERSTOWN 2 NW	78	11/03	10	12/17	MSG		MSG		MSG		MSG		MSG		11/12	29	11/23	28	12/09	24	12/15	18	12/16	10						
SMITHSBURG 2NW	96	07/26	1	02/15	02/19	16	04/10	19	04/10	19	04/14	28	04/14	28	10/26	28	10/26	28	11/12	23	11/24	20	12/16	10	301	228	216	195	195	
APPALACHIAN MOUNTAIN 07																														
CUMBERLAND 2	100	07/26	7	02/15	02/15	7	02/15	7	04/11	23	04/11	23	04/14	32	11/12	28	11/12	28	11/23	23	12/15	15	12/15	15	304	304	226	215	212	
FROSTBURG 2	91	08/14	-2	02/15	04/10	16	04/11	18	04/11	18	04/14	26	04/15	32	10/14	32	11/12	25	11/21	22	12/09	18	12/11	15	245	242	224	212	182	
SHARPSBURG 5 S	97	07/26	6	12/16	MSG		03/04	18	04/11	21	04/14	27	04/15	29	10/11	32	10/27	28	11/13	24	11/23	20	12/16	6		264	216	196	179	
ALLEGHENY PLATEAU 08																														
OAKLAND 1 SE	93	07/26	-8	02/12	04/11	15	04/11	15	04/11	15	04/14	25	04/14	25	10/26	26	10/26	26	11/12	20	11/12	20	12/11	12	244	215	215	195	195	
SAVAGE RIVER DAM	91	08/14	2	02/12	02/15	4	04/11	19	04/11	19	04/14	28	04/15	31	10/26	31	11/12	26	11/23	24	12/11	20	12/15	14	304	244	226	212	194	

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

MARYLAND AND DELAWARE
2016

STATION	HIGHEST	DATE	LOWEST	DATE	LAST SPRING MINIMUM OF										FIRST FALL MINIMUM OF										NUMBER OF DAYS BETWEEN DATES				
					16° OR BELOW		20° OR BELOW		24° OR BELOW		28° OR BELOW		32° OR BELOW		32° OR BELOW		28° OR BELOW		24° OR BELOW		20° OR BELOW		16° OR BELOW		16° OR BELOW	20° OR BELOW	24° OR BELOW	28° OR BELOW	32° OR BELOW
					DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.					
SINES DEEP CREEK	87	08/15	-5	02/15	04/11	12	04/11	12	06/10	24	06/13	26	06/13	26	10/11	32	10/27	28	11/14	22	11/22	20	12/12	15	245	225	157	136	120
DELAWARE																													
NORTHERN 01																													
WILMINGTON NEW CASTLE CO AP	96	08/14	8	02/14	02/14	8	02/19	18	03/03	24	04/10	25	04/10	25	10/26	30	11/23	26	12/10	23	12/15	16	12/15	16	305	300	282	227	199
WILMINGTON PORTER RSCH	96	08/13	8	02/14	02/15	15	02/15	15	02/20	21	04/10	27	04/10	27	11/12	30	11/23	25	12/11	24	12/15	14	12/15	14	304	304	295	227	216
SOUTHERN 02																													
DOVER	97	07/25	9	02/14	02/14	9	02/19	19	03/06	24	04/06	26	04/10	29	11/14	30	11/23	25	12/11	22	12/15	18	12/16	13	306	300	280	231	218

MONTHLY AND SEASONAL COOLING DEGREE DAYS
BASE = 65 DEGREES FAHENHEIT

MARYLAND AND DELAWARE
 2016

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
MARYLAND														
SOUTHERN EASTERN SHORE 01														
ASSATEAGUE	-	-	-	-	-	-	-	-	-	-	-	0	-	1092
PRINCESS ANNE	0	0	3E	31E	66E	237E	472E	419E	270E	62E	5E	0	1565E	1092
SALISBURY 2N	0	0	11E	19E	87E	253E	468	451E	258	70	6	0	1623E	
SALISBURY FAA AP	0	0	3	21	61	213	456	435	227	59	6	0	1481	1155
SNOW HILL 4 N	0	0	7	24E	69	235	447	379	195	50	2	0	1408E	1194
CENTRAL EASTERN SHORE 02														
ROYAL OAK 2 SSW	0	0	2	21	68	287	507	523	292	66	2	0	1768	1392
LOWER SOUTHERN 03														
MECHANICSVILLE 5 NE	0	0	7	8	49	203	373	367	166	21	0	0	1194	1093
SOLOMONS	0	0	9E	19E	75E	318E	555E	510E	291E	64E	2E	0	1843E	
UPPER SOUTHERN 04														
BALTIMORE-WASHINGTON INTL AP	0	0	4	23	75	250	467	448	243	41	0	0	1551	1147
BELTSVILLE	0	0	1	9	66	251	459	442	247	34	0	0	1509	1109
DALECARLIA RSVR	0	0	9	10E	80E	292E	470	461E	256E	31E	2E	0	1611E	1258
MARYLAND SCI CTR	0	0	6	29	102	324	559	533	310	58	2E	0	1923E	
NATL ARBORETUM DC	0	0	8	15	87	350	527	530	314E	71	2	0	1904E	1243
OXON HILL	0	0	5	12	69	293	470	473	273	35	2	0	1632	
UPPER MARLBORO 3 NNW	0	0	7	14E	-	268E	-	-	-	-	-	-	-	
NORTHERN EASTERN SHORE 05														
STEVENSVILLE 2SW	0	0	0	6	72	301	499	485	264	37	4	0	1668	
NORTHERN CENTRAL 06														
ABERDEEN PHILLIPS FLD	0	0	1	8	63	221	423	403	214	18	0	0	1351	1153
BRIGHTON DAM	0	0	0	2E	47E	209E	394E	402E	170E	22	0	0	1246E	
CONOWINGO DAM	0	0	0	3	56	192	377	372	191	10	0	0	1201	1068
CYLBURN	0	0	4	7	84	235	415	460	196	49	0	0	-	
DAMASCUS 3 SSW	0	0	3	20	67	184	363	349	152	25	0	0	1163	
EMMITSBURG 2 SE	0	0	3	1	54	174	353	364	185	24	0	0	1158	918
FREDERICK 2 NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	
MILLERS 4 NE	0	0	3	8	59	185	352	346	177	26	0	0	1156	790
REISTERSTOWN 2 NW	-	-	-	-	-	-	-	-	-	0	0	0	-	
SMITHSBURG 2NW	0	0	0	0	38E	172	330	330	174	22	0	0	1066E	
APPALACHIAN MOUNTAIN 07														
CUMBERLAND 2	0	0	0	8	64	241	402	403	197	26	0	0	1341	877
FROSTBURG 2	0	0	0	2	26	88	215	232	95	7	0	0	665	344
SHARPSBURG 5 S	-	-	1	4	56	183	345	351	183E	30	0	0	-	
ALLEGHENY PLATEAU 08														
OAKLAND 1 SE	0	0	0	1	34	130	244	258	81	8	0	0	756	316
SAVAGE RIVER DAM	0	0	0	0	27	104E	233E	271	109	4	0	0	748E	414
SINES DEEP CREEK	0	0	0	0	1E	33E	142E	151E	23E	0	0	0	350E	
DELAWARE														
NORTHERN 01														
WILMINGTON NEW CASTLE CO AP	0	0	2	12	78	228	453	448	235	33	0	0	1489	1125
WILMINGTON PORTER RSCH	0	0	0	12E	78	212	417E	397	193	17	0	0	1326E	
SOUTHERN 02														

MARYLAND AND DELAWARE
2016

MONTHLY AND SEASONAL COOLING DEGREE DAYS

BASE = 65 DEGREES FAHENHEIT

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
DOVER	0	0	10	22	74	251	468	459	266	58	5	0	1613	1262

TOTAL PAN EVAPORATION AND WIND MOVEMENT

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MARYLAND														
UPPER SOUTHERN 04														
BELTSVILLE	WIND	-	-	-	1887	1060E	1320	1290	1287	1295	1360	-	-	-
	EVAP	-	-	-	4.63	3.72E	7.21	7.55	7.24	4.90	3.13	-	-	-
	MAX TEMP	-	-	52.0	68.4	75.2	88.9	94.2	93.3	84.5	71.7	65.0	-	-
	MIN TEMP	-	-	52.0	42.4	53.3	61.9	69.1	67.7	62.0	48.5	40.0	-	-
UPPER MARLBORO 3 NNW														
	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-
	EVAP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
ALLEGHENY PLATEAU 08														
SAVAGE RIVER DAM														
	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-
	EVAP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION INDEX

STATION	INDEX NO.	DIVISION NO.	COUNTY	LATITUDE	LONGITUDE	ELEVATION FEET	YEARS OF RECORD			OPENED OR CLOSED DURING YR		SEE REFERENCE NOTES
							TEMP.	PRECIP.	EVAP.	MONTH OPENED	MONTH CLOSED	
MARYLAND												
ABERDEEN PHILLIPS FLD	0015	06	HARFORD	39 28	76 10W	57	90	90	0			CH
ASSATEAGUE	0335	01	WORCESTER	38 4	75 13W	10	45	45	0			H
BALTIMORE WASHINGTON INTL CLIM	0467	04	ANNE ARUNDEL	39 11	76 39W	101	0	5	0			H
BALTIMORE-WASHINGTON INTL AP R	0465	04	ANNE ARUNDEL	39 10	76 41W	156	78	78	0			HJ
BELTSVILLE	0700	04	PRINCE GEORGE'S	39 2	76 56W	145	76	76	75			CH
BRIGHTON DAM	1125	06	MONTGOMERY	39 11	77 0W	330	16	53	0			H
CONOWINGO DAM	2060	06	HARFORD	39 39	76 11W	40	81	81	0			H
CUMBERLAND 2	2282	07	ALLEGANY	39 39	78 45W	730	43	43	0			H
CYLBURN	2308	06	BALTIMORE	39 21	76 39W	235	14	14	0			H
DALECARLIA RSVR	2325	04	DISTRICT OF COLUMBIA	38 56	77 7W	150	69	69	0			H
DAMASCUS 3 SSW	2336	06	MONTGOMERY	39 16	77 14W	700	24	24	0			H
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 17W	403	61	61	0			H
FREDERICK 2 NNE	3353	06	FREDERICK	39 26	77 24W	280	10	10	0		AUG	H
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2170	45	45	0			H
MARYLAND SCI CTR R	5718	04	BALTIMORE (CITY)	39 17	76 37W	20	19	18	0			H
MECHANICSVILLE 5 NE	5865	03	ST. MARY'S	38 28	76 42W	100	43	52	0			H
MILLERS 4 NE	5934	06	CARROLL	39 43	76 48W	860	29	29	0			CH
NATL ARBORETUM DC	6350	04	DISTRICT OF COLUMBIA	38 55	76 58W	50	69	69	0			H
OAKLAND 1 SE	6620	08	GARRETT	39 25	79 24W	2420	118	118	0			H
OXON HILL	6800	04	PRINCE GEORGE'S	38 47	76 60W	120	15	15	0			H
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	121	121	0			H
REISTERSTOWN 2 NW	7580	06	BALTIMORE	39 30	76 50W	737	1	1	0			H
ROYAL OAK 2 SSW	7806	02	TALBOT	38 43	76 11W	10	69	69	0			H
SALISBURY 2N	8004	01	WICOMICO	38 24	75 36W	20	5	5	0			H
SALISBURY FAA AP //	8005	01	WICOMICO	38 20	75 31W	47	69	69	0			H
SAVAGE RIVER DAM	8065	08	GARRETT	39 31	79 8W	1495	66	72	43			CH
SHARPSBURG 5 S	8207	07	WASHINGTON	39 24	77 43W	500	19	19	0			H
SINES DEEP CREEK	8315	08	GARRETT	39 31	79 25W	2040	42	42	0			H
SMITHSBURG 2NW	8371	06	WASHINGTON	39 40	77 35W	670	15	15	0			H
SNOW HILL 4 N	8380	01	WORCESTER	38 14	75 23W	30	101	101	0			H
SOLOMONS	8405	03	CALVERT	38 19	76 27W	12	106	106	0			H
STEVENSVILLE 2SW	8557	05	QUEEN ANNE'S	38 58	76 20W	10	39	39	0			H
SUDLERSVILLE 1S	8657	05	QUEEN ANNE'S	39 10	75 51W	100	0	2	0			H
UPPER MARLBORO 3 NNW	9070	04	PRINCE GEORGE'S	38 51	76 46W	130	60	60	56		AUG	H
WILLIAMSPORT	9570	07	WASHINGTON	39 37	77 51W	360	17	51	0			H
DELAWARE												
DOVER	2730	02	KENT	39 9	75 30W	30	114	114	0			H
FRANKFORD	3500	02	SUSSEX	38 32	75 14W	41	0	1	0		FEB	H
WILMINGTON NEW CASTLE CO AP R R	9595	01	NEW CASTLE	39 40	75 36W	79	69	69	0			HJ
WILMINGTON PORTER RSCH	9605	01	NEW CASTLE	39 46	75 32W	270	85	86	0			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 is 1981 to 2010. The normals for National Weather Service localities have been adjusted so as to be representative for the current observation site.

TEMPERATURE EXTREMES AND FREEZE DATA: Spring minimum dates are obtained from data for January through June; Fall dates are from July through December data. "NONE" indicates temperature threshold not reached. "MSG" indicates available data insufficient to determine date.

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.

SOIL TEMPERATURE EXTREMES: The highest and lowest Max and Min temperature for each month and the year.

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 DATA TABLES

- No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.
- * Equipment gage not read. Precipitation is included in the amount following asterisks. Time distribution not known.
- // Equipment 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 monthly bulletins to determine date of last reading.
- 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 are missing or flagged.
- F Monthly Calculation Flagged Value. F is appended to the average of the monthly station values when 1-9 daily observations were determined to be invalid during the Quality Control process.
- 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 or flagged.
- R Amounts from recording rain gage.
- T Trace. An amount too small to measure.

SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

Thermometers located in rooftop shelter.

C Station is equipped with a 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 "Soil Temperatures" table.

H Observations appear in "Snowfall and Snow on the Ground" table in monthly "Climatological Data" publication.

J Station also published as a "Local Climatological Data" bulletin.

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 "Climatological Data".

Cooling degree days for the calendar year are published in the "Climatological Data Annual Summary".

Additional precipitation data are contained in the "Hourly Precipitation Data" bulletin for each state.

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.

ERRATA

Beginning in January of 2011, CD Publications are produced from the Global Historical Climatology Network data set. (<http://www.ncdc.noaa.gov/oa/climate/ghcn-daily/>) The GHCND data Version is printed on first page of the publication.

New flags were added to indicate:

E Normalized HDD/CDD, Evap, and Wind Movement Calculations in 2011, previously was B.

F Monthly calculation flagged value.

Station metadata is provided by NCEI's Products Branch from the Historical Observing Metadata Repository: <http://www.ncdc.noaa.gov/homr>

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>.

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.

Processing Updates and Errata: The CD Publications are periodically reproduced to include the addition of late reports and reported corrections. The GHCND data version noted on the cover of the publication provides the generation date.

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>.

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

Hourly Precipitation Data

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

Climatological Data

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

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

Storm Data

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

Monthly Climatic Data for the World

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

Local Climatological Data

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

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