



# CLIMATOLOGICAL DATA ANNUAL SUMMARY MARYLAND AND DELAWARE

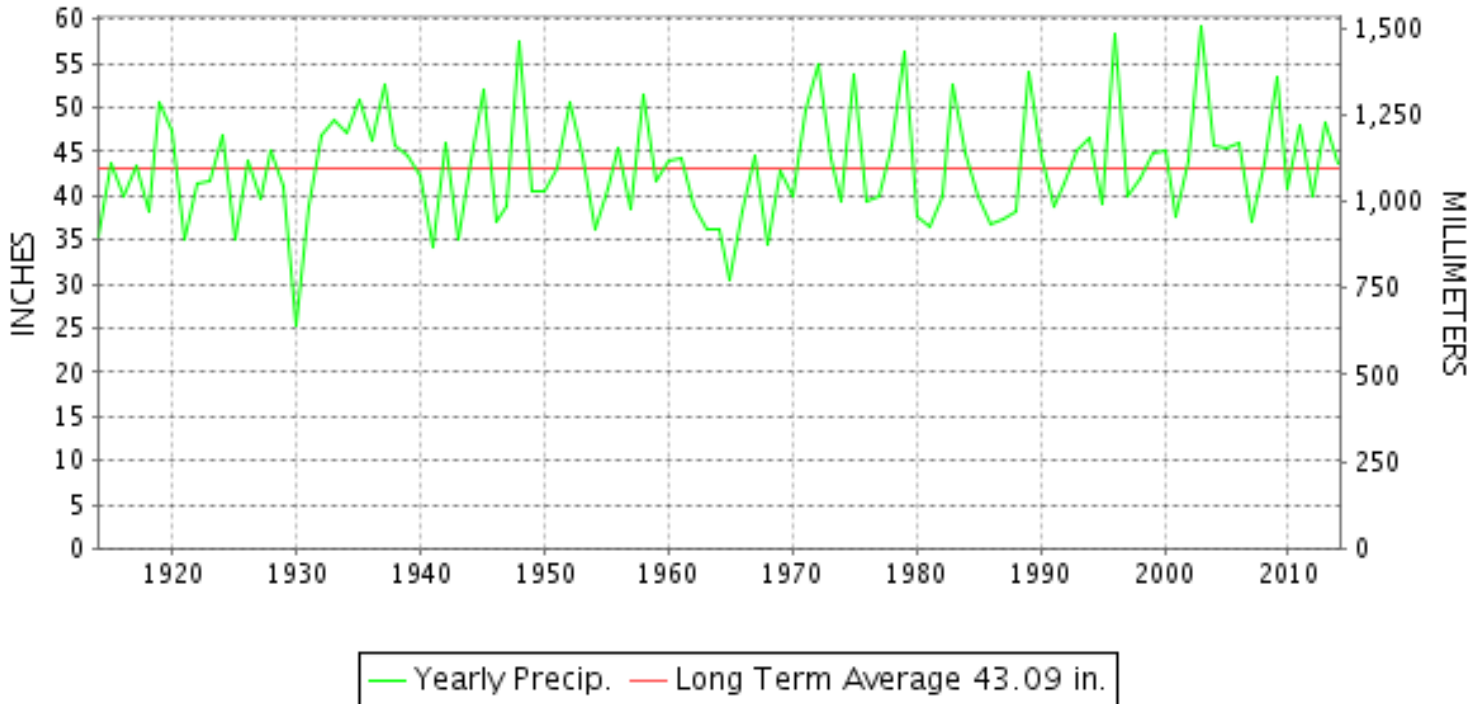
2014

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## YEARLY TOTAL PRECIPITATION



MARYLAND AND DELAWARE PRECIPITATION 1914-2014

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# TOTAL PRECIPITATION AND DEPARTURE FROM NORMAL (INCHES)

MARYLAND AND DELAWARE  
2014

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.
<b>MARYLAND</b>												
<b>SOUTHERN EASTERN SHORE 01</b>												
ASSATEAGUE	M		M		M		M		M		M	
PRINCESS ANNE	M 2.61	-0.97	M 1.73	-1.18	M		MA 4.41	0.91	M 5.47	1.89	M	
SALISBURY 2N	3.33		3.89		4.60		4.38		3.51		1.07	
SALISBURY FAA AP	2.13	-1.48	1.85	-1.50	2.57	-1.85	3.06	-0.49	2.21	-1.41	0.84	-2.87
SNOW HILL 4 N	M 2.15	-1.42	3.28	0.14	3.97	-0.55	4.32	0.84	3.19	-0.33	1.55	-1.92
--DIVISIONAL DATA----->	2.73	-1.27	3.01	-0.41	3.71	-0.77	3.92	0.66	2.97	-0.65	1.15	-2.23
<b>CENTRAL EASTERN SHORE 02</b>												
ROYAL OAK 2 SSW	3.38		4.27		4.11		4.69		5.05		2.79	
--DIVISIONAL DATA----->	3.38	-0.60	4.27	0.96	4.11	-0.18	4.69	1.30	5.05	1.14	2.79	-0.76
<b>LOWER SOUTHERN 03</b>												
MECHANICSVILLE 5 NE	3.33		4.04		4.86		4.29		M 5.32		2.56	
SOLOMONS	2.93		MA 3.73		M		MA 3.26		MA 4.68		MA 3.67	
--DIVISIONAL DATA----->	3.13	-0.59	4.04	1.02	4.86	0.55	4.29	1.09	M	M	2.56	-1.22
<b>UPPER SOUTHERN 04</b>												
BALTIMORE WASH INTL AP	2.71		4.58		4.38		8.60		3.35		3.95	
BELTSVILLE	2.41	-0.45	3.86	1.26	4.01	0.33	5.20	1.85	8.88	4.56	2.86	-0.84
DALECARLIA RSVR	2.91	-0.11	6.82	3.79	5.27	1.27	3.23	-0.43	MA 8.32	3.88	2.95	-1.26
LAUREL 3 W	4.67	1.51	4.77	1.74	4.88	0.78	8.88	5.07	5.82	1.26	4.45	0.22
MARYLAND SCIENCE CENTER	2.53	-0.39	4.12	1.52	4.20	0.34	9.30	6.08	3.22	-0.27	6.77	3.50
NATL ARBORETUM DC	1.97	-1.12	MA 4.20	1.30	3.89	0.17	M 4.55	1.04	M 6.71	2.43	4.88	0.80
OXON HILL	2.50	-0.52	4.51	1.58	4.35	0.57	4.17	0.77	7.29	2.93	3.01	-1.35
UPPER MARLBORO 3 NNW	2.21	-0.67	4.17	1.45	3.87	0.11	4.63	1.08	5.70	1.38	3.29	-0.78
--DIVISIONAL DATA----->	2.74	-0.81	4.69	1.77	4.36	0.34	6.29	2.95	5.71	1.27	4.02	0.36
<b>NORTHERN CENTRAL 06</b>												
ABERDEEN PHILLIPS FLD	2.47		4.66		3.68		3.85		8.39		4.01	
BRIGHTON DAM	3.47		4.72		4.73		4.87		9.78		3.02	
CONOWINGO DAM	3.79	0.35	3.77	0.92	3.33	-0.92	9.26	5.33	5.48	1.52	4.91	0.73
CYLBURN	MA 2.39		MA 5.41		MA 1.74		6.13		M 8.09		6.22	
DAMASCUS 3 SSW	3.38	0.01	5.21	2.04	5.17	1.48	6.59	2.96	6.74	2.57	3.33	-0.81
EMMITSBURG 2 SE	3.13	-0.05	3.48	0.78	3.08	-0.97	4.54	0.63	7.50	3.16	4.98	1.06
FREDERICK 2 NNE	M		M		M		M		M		M	
MILLERS 4 NE	3.40	0.19	6.17	2.98	5.40	1.68	6.13	2.42	4.67	0.41	3.89	0.50
SMITHSBURG 2NW	M		M		M		M		M		M	
--DIVISIONAL DATA----->	3.27	-0.33	4.67	1.75	4.23	0.20	5.91	2.38	7.09	2.47	4.34	0.29
<b>APPALACHIAN MOUNTAIN 07</b>												
CUMBERLAND 2	0.81		3.53		1.59		2.97		4.75		M 5.57	
FROSTBURG 2	1.25	-2.07	3.68	0.56	2.20	-1.74	3.26	-0.61	5.67	0.79	4.44	0.44
SHARPSBURG 5 S	M		M		M 3.34	-0.33	M 3.76	0.14	7.56	3.40	M	
WILLIAMSPORT	M 1.56	-1.44	MA 4.00	2.03	3.58	-0.65	M 3.29	0.09	4.81	0.66	M 5.05	1.27
--DIVISIONAL DATA----->	1.03	-2.07	3.61	0.99	2.46	-0.96	3.12	-0.27	5.70	1.49	4.44	0.92
<b>ALLEGHENY PLATEAU 08</b>												

# TOTAL PRECIPITATION AND DEPARTURE FROM NORMAL (INCHES)

MARYLAND AND DELAWARE  
2014

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.
<b>MARYLAND</b>														
<b>SOUTHERN EASTERN SHORE 01</b>														
ASSATEAGUE	M		M		M		M		M		M			
PRINCESS ANNE	M 2.24	-2.09	M 7.49	2.83	M 1.67	-2.17	M 2.18	-1.12	M		M			
SALISBURY 2N	3.56		4.60		5.19		3.43		3.85		4.05		45.46	
SALISBURY FAA AP	3.28	-1.10	4.34	-0.09	4.38	0.40	1.72	-1.77	1.83	-1.60	2.22	-1.49	30.43	-16.61
SNOW HILL 4 N	3.79	-0.60	4.99	0.09	5.84	1.44	2.02	-1.51	2.24	-1.28	4.19	0.52	M 41.53	-4.65
--DIVISIONAL DATA----->	3.54	-0.77	4.64	-0.10	5.14	1.38	2.39	-0.98	2.64	-0.54	3.49	0.09	39.33	-5.59
<b>CENTRAL EASTERN SHORE 02</b>														
ROYAL OAK 2 SSW	3.36		1.55		2.86		3.08		3.47		4.99		43.60	-2.27
--DIVISIONAL DATA----->	3.36	-0.83	1.55	-2.71	2.86	-0.96	3.08	-0.16	3.47	0.18	4.99	1.50	43.60	-1.12
<b>LOWER SOUTHERN 03</b>														
MECHANICSVILLE 5 NE	1.70		1.22		2.27		4.08		2.91		3.67		M 40.25	-7.27
SOLOMONS	M 3.24		2.51		MA 3.04		2.67		MA 3.19		3.35			
--DIVISIONAL DATA----->	1.70	-2.52	1.87	-2.26	2.27	-1.90	3.38	-0.10	2.91	-0.36	3.51	0.20		-6.09
<b>UPPER SOUTHERN 04</b>														
BALTIMORE WASH INTL AP	2.80		7.90		3.21		4.16		3.36		3.58		52.58	10.64
BELTSVILLE	3.09	-0.85	3.94	0.67	3.19	-0.89	4.06	0.39	3.14	-0.10	3.39	0.26	48.03	4.27
DALECARLIA RSVR	2.77	-1.82	M 5.64	1.78	M 3.32	-0.85	M 4.25	0.41	M 3.39	-0.23	M 4.22	1.00	M 53.09	7.98
LAUREL 3 W	3.16	-0.89	4.97	1.54	3.24	-1.36	4.03	0.05	2.61	-1.60	3.87	0.10	55.35	8.95
MARYLAND SCIENCE CENTER	3.44	-1.18	6.35	2.96	2.80	-1.29	3.71	0.66	3.40	0.43	3.33	-0.08	53.17	
NATL ARBORETUM DC	3.75	-0.57	2.73	-0.68	2.54	-1.22	3.96	0.17	M 2.97	-0.50	3.44	0.24	M 45.59	1.89
OXON HILL	3.67	-0.68	5.52	1.90	1.75	-2.38	3.45	-0.27	2.86	-0.74	3.99	0.72	47.07	
UPPER MARLBORO 3 NNW	4.31	0.29	4.44	0.72	2.57	-1.42	3.34	-0.26	3.01	-0.46	4.15	1.01	45.69	2.00
--DIVISIONAL DATA----->	3.37	-0.77	5.12	1.17	2.76	-1.42	3.82	0.34	3.06	-0.32	3.68	0.29	49.62	5.17
<b>NORTHERN CENTRAL 06</b>														
ABERDEEN PHILLIPS FLD	4.24		5.01		3.93		3.24		3.71		2.60		49.79	5.57
BRIGHTON DAM	2.99		4.96		2.05		4.21		3.32		3.78		51.90	7.22
CONOWINGO DAM	2.79	-1.50	3.61	-0.30	2.38	-2.57	3.18	-0.94	3.63	0.09	2.77	-1.26	48.90	0.81
CYLBURN	2.75		4.78		2.43		M 4.88		M 1.50		4.72		M 51.04	
DAMASCUS 3 SSW	M 4.54	0.42	3.44	-0.85	2.43	-2.08	2.99	-0.73	3.39	-0.53	3.74	0.11	M 50.95	
EMMITSBURG 2 SE	3.95	0.30	5.16	1.76	1.80	-2.44	4.60	1.22	3.18	-0.43	3.14	-0.19	48.54	3.20
FREDERICK 2 NNE	M		M		M		M		M		M			
MILLERS 4 NE	4.34	0.35	3.64	-0.08	1.50	-2.97	4.09	0.34	3.46	-0.13	3.46	-0.18	50.15	6.48
SMITHSBURG 2NW	M		M		M		M		M		M			
--DIVISIONAL DATA----->	3.51	-0.45	4.37	0.53	2.36	-1.97	3.72	0.21	3.45	-0.17	3.46	-0.04	50.38	4.87
<b>APPALACHIAN MOUNTAIN 07</b>														
CUMBERLAND 2	5.50		2.28		0.83		3.75		1.82		1.92		M 35.32	-1.89
FROSTBURG 2	3.87	-0.13	3.15	-0.45	1.16	-2.52	4.40	1.36	1.99	-1.68	2.42	-0.87	37.49	-7.07
SHARPSBURG 5 S	6.42	2.32	MA 2.88	-0.35	2.27	-1.73	3.93	0.52	M 1.37	-2.03	M			
WILLIAMSPORT	3.75	-0.15	M 4.76	1.84	M 1.45	-2.41	M		M		M 2.41	-0.69		
--DIVISIONAL DATA----->	4.89	1.25	2.72	-0.73	1.42	-2.07	4.03	0.95	1.91	-1.36	2.17	-0.70	37.50	-2.56
<b>ALLEGHENY PLATEAU 08</b>														

# TOTAL PRECIPITATION AND DEPARTURE FROM NORMAL (INCHES)

MARYLAND AND DELAWARE  
2014

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.
OAKLAND 1 SE	M 2.89		4.88		3.56		3.24		7.52		3.55	
SAVAGE RIVER DAM	M 0.92	-1.83	4.70	2.27	M 1.14	-2.26	M 2.34	-0.99	M 3.77	-0.75	M 4.59	0.69
SINES DEEP CREEK	M 2.86		4.92		2.92		M 2.90		M 5.60		MA 5.98	
--DIVISIONAL DATA----->	M	M	4.83	1.74	3.24	-0.63	3.24	-0.60	7.52	2.98	3.55	-0.66
<b>DELAWARE</b>												
<b>NORTHERN 01</b>												
WILMINGTON NEW CASTLE CO AP	3.23	0.22	5.35	2.67	3.82	-0.10	6.84	3.34	3.09	-0.86	5.03	1.15
WILMINGTON PORTER RES	M 2.45	-1.26	5.26	2.27	4.19	-0.33	8.10	3.89	2.47	-1.91	3.15	-1.04
--DIVISIONAL DATA----->	3.23	-0.47	5.31	2.47	4.01	-0.10	7.47	3.84	2.78	-1.64	4.09	0.19
<b>SOUTHERN 02</b>												
DOVER	MA 2.36		4.92		3.64		4.07		2.28		3.78	
MILTON	M		M		M		M		M		M	
--DIVISIONAL DATA----->	M	M	4.92	1.74	3.64	-0.76	4.07	0.60	2.28	-1.84	3.78	0.37

# TOTAL PRECIPITATION AND DEPARTURE FROM NORMAL (INCHES)

MARYLAND AND DELAWARE  
2014

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.	PRECIP.	DEPART.
OAKLAND 1 SE	7.35		4.99		2.37		5.62		3.34		3.91		M 53.22	5.66
SAVAGE RIVER DAM	M 2.76	-1.56	M 1.92	-1.41	M 0.92	-2.40	M 4.18	1.52	1.71	-1.29	2.25	-0.55	M 31.20	-8.32
SINES DEEP CREEK	MA 5.87		MA 5.77		MA 1.55		MA 4.93		MA 2.40		MA 4.77		M 50.47	
--DIVISIONAL DATA----->	7.35	2.48	4.99	1.08	2.37	-1.23	5.62	2.59	2.53	-1.03	3.08	-0.50		6.22
<b>DELAWARE</b>														
<b>NORTHERN 01</b>														
WILMINGTON NEW CASTLE CO AP	5.94	1.37	4.77	1.52	2.84	-1.48	2.79	-0.63	4.20	1.10	3.01	-0.47	50.91	8.10
WILMINGTON PORTER RES	3.43	-1.93	3.88	0.21	3.22	-1.68	2.24	-1.57	4.37	0.89	3.07	-1.03	M 45.83	
--DIVISIONAL DATA----->	4.69	0.19	4.33	0.61	3.03	-1.29	2.52	-0.84	4.29	0.91	3.04	-0.58	48.79	3.29
<b>SOUTHERN 02</b>														
DOVER	3.51		3.23		3.13		2.81		4.43		4.34		M 42.50	-3.78
MILTON	M		M		M		M		M		M			
--DIVISIONAL DATA----->	3.51	-0.41	3.23	-1.66	3.13	-1.02	2.81	-0.57	4.43	1.14	4.34	0.80		-1.61

# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL(°F)

MARYLAND AND DELAWARE  
2014

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.		
<b>MARYLAND</b>																												
<b>SOUTHERN EASTERN SHORE 01</b>																												
ASSATEAGUE	M		M		M		M		M		M		M		M		M		M		M		M		M		M	
PRINCESS ANNE	34.1M	-2.2	38.5M	0.0	MM		55.5M	1.1	69.3M	5.8	M		78.9M	2.3	MM		72.0M	3.4	64.2M	6.7	MM		MM		MM		M	
SALISBURY 2N	33.3		36.8MF		42.0M		55.2MF		66.8		73.3M		76.3		71.8		70.6		60.9M		47.3		43.7F		M	56.5		
SALISBURY FAA AP	32.2	-3.5	37.8	-0.1	42.5	-3.0	55.5	1.2	67.1	3.7	74.4	2.2	77.4	0.1	74.6	-0.9	71.9	2.8	61.8	4.2	46.9	-1.7	44.0	4.0	57.2	0.8		
SNOW HILL 4 N	33.5	-3.5	37.3F	-1.7	42.9	-3.6	54.1	-1.4	66.7	1.9	74.4	1.5	76.6	-0.4	72.7	-2.6	70.6	1.0	61.4	3.0	46.9	-2.5	43.7	2.7	56.7	-0.5		
--DIVISIONAL DATA----->	33.3	-2.7	37.6	-0.2	42.5	-2.8	55.1	1.0	67.5	4.3	74.0	2.2	77.3	0.6	73.0	-2.3	71.3	2.0	62.1	3.8	47.0	-1.8	43.8	3.5	57.0	7.6		
<b>CENTRAL EASTERN SHORE 02</b>																												
ROYAL OAK 2 SSW	31.3		35.5		40.6		55.2		66.2		74.0		77.2		73.5		69.9		60.3		45.7		41.1		55.9	-2.0		
--DIVISIONAL DATA----->	31.3	-3.5	35.5	-1.4	40.6	-4.7	55.2	0.7	66.2	1.9	74.0	1.1	77.2	-0.5	73.5	-2.4	69.9	0.7	60.3	2.1	45.7	-2.4	41.1	1.8	55.9	-6.6		
<b>LOWER SOUTHERN 03</b>																												
MECHANICSVILLE 5 NE	28.2		34.5		38.4		52.8		64.2M		71.3		74.0		71.0		67.5		57.6		42.4		40.2		M	53.5	-2.7	
SOLOMONS	33.2M		34.5M		MM		56.5M		67.1M		76.0M		77.9M		75.7M		72.8M		64.5M		MM		43.0M		M			
--DIVISIONAL DATA----->	30.7	-3.3	34.5	-2.4	38.4	-6.8	54.7	0.5	65.7	2.3	73.7	2.0	76.0	-0.3	73.4	-1.3	70.2	2.1	61.1	4.2	42.4	-4.9	41.6	2.8	55.2	-5.1		
<b>UPPER SOUTHERN 04</b>																												
BALTIMORE WASH INTL AP	27.4		32.9		38.5		53.0		64.9		73.2		75.6		72.5		68.7		58.2		43.4		39.9		54.0	-0.6		
BELTSVILLE	27.4	-5.2	33.5	-1.9	37.3	-6.5	53.3	0.0	64.4	1.4	73.0	0.9	75.4	-1.5	72.2	-3.1	69.0	0.6	58.8	2.7	43.0	-3.7	39.7	2.4	53.9	-1.2		
DALECARLIA RSVR	28.3	-5.7	34.1	-3.3	38.0	-7.7	54.5	-1.1	65.0M	0.1	74.5	1.3	76.0M	-1.6	73.6M	-2.6	69.2M	-0.1	59.2M	1.9	43.4M	-3.8	40.4M	2.2	M	54.7	-1.7	
LAUREL 3 W	27.9	-5.2	34.2	-2.1	40.7F	-4.2	53.9	-1.0	66.0	1.4	74.3	1.5	76.8	-1.0	74.5	-2.0	70.7	1.6	59.9	2.3	44.3	-3.2	40.0	2.2	55.3	-0.8		
MARYLAND SCIENCE CENTER	30.0		35.2		41.1		55.7		67.2		75.7		78.5		75.7		71.8		60.8		45.3		41.2		56.5			
NATL ARBORETUM DC	29.7M	-3.8	34.6M	-1.6	39.8	-4.6	56.4M	2.3	68.6M	4.5	76.9	3.8	78.3	0.4	75.8	-0.3	71.4	2.7	61.1	4.5	45.8M	-1.1	42.1	4.1	M	56.7	0.9	
OXON HILL	29.1		35.2		39.3		55.2		65.7		73.6		76.2		73.4		70.3		59.4		44.0		40.8		55.2			
UPPER MARLBORO 3 NNW	27.9	-4.6	33.9	-1.5	37.5	-6.3	53.4	0.0	64.9	2.2	73.2	1.9	75.9	0.0	72.7	-1.4	69.0	1.8	58.6	3.3	43.0	-3.3	39.9	2.9	54.2	-0.4		
--DIVISIONAL DATA----->	28.5	-4.8	34.2	-2.1	39.0	-5.5	54.4	0.3	65.8	2.2	74.3	2.0	76.6	-0.5	73.8	-1.6	70.0	1.7	59.5	3.1	44.0	-2.7	40.5	2.9	55.1	-5.0		
<b>NORTHERN CENTRAL 06</b>																												
ABERDEEN PHILLIPS FLD	26.9		32.1		36.3		52.1		64.0		72.4		75.3		71.5		68.4		57.7		42.3		40.1		53.3	-2.6		
BRIGHTON DAM	25.4M		31.2M		35.5M		51.3M		63.1		71.2		73.2		70.2		66.5		56.9		41.6M		37.6M		M	52.0		
CONOWINGO DAM	24.1	-6.8	29.2	-4.5	34.2	-8.2	49.7	-2.7	61.8	-0.8	70.2	-1.3	73.2	-3.0	70.2	-4.6	66.1	-1.6	55.8	0.2	40.1	-4.8	36.4	0.6	50.9	-3.1		
CYLBURN	27.2M		32.6		35.6M		52.5M		63.1		72.1		74.8		69.7		66.7		57.5		42.1		39.5		M	52.8		
DAMASCUS 3 SSW	26.3		30.9		36.7		51.9		62.9		70.9		72.7M		70.2		66.3		56.4		41.5		37.4		M	52.0		
EMMITSBURG 2 SE	23.8	-7.2	29.8	-4.3	34.5	-8.5	51.3	-1.5	62.1	-0.1	70.6	0.1	73.0	-2.0	69.0	-4.3	65.4	-1.0	56.0	1.1	40.3	-4.5	37.9	2.0	51.1	-2.6		
FREDERICK 2 NNE	M		M		M		M		M		M		M		M		M		M		M		M		M			
MILLERS 4 NE	25.4	-5.0	29.1	-4.3	36.6	-5.1	51.1	-0.7	62.7	1.4	70.1	0.4	72.5	-1.4	69.7	-2.8	66.2	0.6	56.5	1.5	41.4	-3.4	38.2	2.8	51.6	-1.4		
SMITHSBURG 2NW	M		M		M		M		M		M		M		M		M		M		M		M		M			
--DIVISIONAL DATA----->	25.6	-5.6	30.7	-3.3	35.6	-7.1	51.4	-0.9	62.8	0.5	71.1	0.4	73.5	-1.8	70.1	-3.4	66.5	-0.1	56.7	1.4	41.3	-3.6	38.2	2.4	52.0	-21.1		
<b>APPALACHIAN MOUNTAIN 07</b>																												
CUMBERLAND 2	23.8		30.6		36.6		53.0		63.4		72.2M		74.5		71.9		66.8		56.7		40.6		38.3		M	52.4	-0.7	
FROSTBURG 2	18.6	-5.9	24.3	-3.0	29.8	-5.5	47.5	1.6	57.4	1.2	66.5M	2.3	67.1	-1.4	65.6	-1.6	61.7	1.4	51.6	2.3	35.0	-4.1	32.6	3.1	M	46.5	-0.8	
SHARPSBURG 5 S	M		M		37.5M		50.2		60.9		70.8		72.2		69.4		64.9		55.6		38.7M		36.9		M			
WILLIAMSPORT	24.6M		31.0M		36.5		52.9M		63.2		71.3M		74.5M		MM		MM		M		MM		MM		M			
--DIVISIONAL DATA----->	22.3	-6.7	28.6	-3.5	35.1	-5.6	50.9	0.2	61.2	0.9	70.2	1.7	72.1	-0.7	69.0	-2.2	64.5	0.4	54.6	1.9	38.1	-4.6	35.9	2.4	50.2	-15.8		

# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL(°F)

MARYLAND AND DELAWARE  
2014

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.	
<b>ALLEGHENY PLATEAU 08</b>																											
OAKLAND 1 SE	21.2M		25.4		29.9		47.0		57.2		67.2		66.9		65.0		61.0		50.2		34.6		33.7		M 46.6		-1.7
SAVAGE RIVER DAM	21.3M	-4.9	25.7	-2.9	31.8M	-5.3	48.3M	0.9	58.0M	0.7	67.4M	1.9	68.5M	-1.2	66.7M	-1.6	62.1M	0.6	52.6M	2.6	36.9	-3.5	34.6	3.6	M 47.8		-0.8
SINES DEEP CREEK	18.7M		23.1		30.3		46.1M		55.6M		MM		MM		MM		59.5M		50.7M		MM		MM		M		
--DIVISIONAL DATA----->	20.4	-5.4	24.7	-3.8	30.7	-6.3	47.1	0.1	56.9	0.4	67.3	2.9	67.7	-0.9	65.9	-1.2	60.9	0.4	51.2	2.0	35.8	-3.8	34.2	3.8	46.9		-11.8
<b>DELAWARE</b>																											
<b>NORTHERN 01</b>																											
WILMINGTON NEW CASTLE CO AP	27.4	-4.1	31.4	-2.8	38.3	-4.4	52.6	0.2	64.2	1.7	72.7	1.2	76.0	-0.6	72.7	-2.3	68.5	0.8	58.3	2.5	43.7	-2.2	40.1	3.7	53.8		-0.6
WILMINGTON PORTER RES	26.5M		30.1		36.4M		52.1		63.7		72.8M		76.5		72.7		68.2		57.3		41.9		38.9		M 53.1		
--DIVISIONAL DATA----->	27.0	-4.7	30.8	-3.5	37.4	-5.3	52.4	0.0	64.0	1.4	72.8	1.4	76.3	0.1	72.7	-1.8	68.4	1.0	57.8	2.0	42.8	-3.0	39.5	2.9	53.5		-9.5
<b>SOUTHERN 02</b>																											
DOVER	31.5M		34.0		39.9		54.0		65.2		73.4		76.6		73.4		70.1		60.3		46.0		41.7		M 55.5		-1.3
--DIVISIONAL DATA----->	31.5	-3.1	34.0	-2.4	39.9	-4.5	54.0	0.8	65.2	2.3	73.4	1.7	76.6	0.1	73.4	-1.4	70.1	1.8	60.3	3.0	46.0	-1.7	41.7	2.7	55.5		-0.7

# TEMPERATURE EXTREMES AND FREEZE DATA (°F)

MARYLAND AND DELAWARE  
2014

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.															
<b>MARYLAND</b>																																							
<b>SOUTHERN EASTERN SHORE 01</b>																																							
ASSATEAGUE					MSG		MSG		MSG		MSG		MSG		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE				
PRINCESS ANNE	83	10/28	2	01/23	01/29	8	01/29	8	01/29	8	03/25	25	03/25	25	12/04	30	12/19	28	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE				
SALISBURY 2N	95	07/02	-1	01/30	03/26	12	03/27	20	03/27	20	03/27	20	04/06	31	11/08	28	11/08	28	11/19	20	11/19	20	11/19	20	11/19	20	11/19	20	11/19	20	11/19	20	11/19	20	11/19	20			
SALISBURY FAA AP	99	07/02	-6	01/30	03/04	10	03/27	20	03/27	20	03/27	20	04/06	32	11/08	30	11/15	27	11/19	20	11/19	20	11/19	20	11/19	20	11/19	20	11/19	20	11/19	20	11/19	20	11/19	20			
SNOW HILL 4 N	99	06/18	0	01/23	03/27	13	03/27	13	03/27	13	03/27	13	04/17	29	10/20	31	11/08	26	11/15	23	11/19	15	11/19	15	11/19	15	11/19	15	11/19	15	11/19	15	11/19	15	11/19	15			
<b>CENTRAL EASTERN SHORE 02</b>																																							
ROYAL OAK 2 SSW	95	09/02	0	01/30	03/27	15	03/27	15	03/27	15	03/27	15	04/17	30	11/15	25	11/15	25	11/16	24	11/22	19	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		
<b>LOWER SOUTHERN 03</b>																																							
MECHANICSVILLE 5 NE	92	07/09	1	01/24	03/05	8	03/28	20	03/28	20	04/17	28	04/18	30	11/08	29	11/15	24	11/15	24	11/19	16	11/19	16	11/19	16	11/19	16	11/19	16	11/19	16	11/19	16	11/19	16	11/19	16	
SOLOMONS	95	07/09	7	01/07	01/31	16	01/31	16	03/13	23	03/27	27	04/16	32	11/17	31	11/18	28	11/19	24	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE
<b>UPPER SOUTHERN 04</b>																																							
BALTIMORE WASH INTL AP	96	06/18	3	01/23	03/05	15	03/27	20	03/27	20	03/27	20	04/17	30	11/08	30	11/15	25	11/18	23	11/19	19	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE
BELTSVILLE	95	07/03	2	01/23	03/05	13	03/27	20	03/27	20	03/27	20	04/17	31	11/08	29	11/16	26	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	
DALECARLIA RSVR	97	07/03	3	01/07	03/05	7	03/14	20	03/28	22	03/28	22	04/17	32	11/08	30	11/15	28	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	
LAUREL 3 W	96	07/02	1	01/07	03/04	9	03/06	20	03/27	22	03/27	22	04/17	32	11/08	32	11/15	28	11/18	22	11/19	18	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE
MARYLAND SCIENCE CENTER	96	07/23	4	01/07	03/04	16	03/04	16	03/24	24	03/27	27	03/27	27	11/15	32	11/18	23	11/18	23	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE
NATL ARBORETUM DC	98	09/07	5	01/08	03/04	7	03/05	17	03/27	23	03/28	28	04/06	32	11/08	32	11/18	26	11/19	22	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE
OXON HILL	96	07/03	4	01/08	03/05	12	03/14	20	03/27	22	03/28	28	04/17	32	11/08	31	11/18	25	11/19	21	11/20	20	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE
UPPER MARLBORO 3 NNW	96	07/03	1	01/31	03/06	15	03/27	19	03/28	22	03/28	22	04/17	29	11/08	28	11/08	28	11/18	24	11/19	17	11/22	16	11/22	16	11/22	16	11/22	16	11/22	16	11/22	16	11/22	16	11/22	16	
<b>NORTHERN CENTRAL 06</b>																																							
ABERDEEN PHILLIPS FLD	95	06/19	3	01/31	03/06	15	03/06	15	03/28	22	03/28	22	04/17	32	11/08	29	11/16	26	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	11/19	19	
BRIGHTON DAM	94	07/03	1	03/04	03/05	13	03/27	17	03/28	21	04/17	28	04/22	31	11/08	28	11/08	28	11/18	22	11/19	17	11/22	16	11/22	16	11/22	16	11/22	16	11/22	16	11/22	16	11/22	16	11/22	16	
CONOWINGO DAM	92	06/18	1	01/08	03/06	13	03/25	20	03/28	22	03/28	22	04/17	31	11/07	30	11/14	27	11/17	23	11/18	16	11/18	16	11/18	16	11/18	16	11/18	16	11/18	16	11/18	16	11/18	16	11/18	16	
CYLBURN	90	09/07	0	01/08	03/05	13	03/24	20	03/27	21	03/27	21	04/17	30	11/08	31	11/15	28	11/18	23	11/19	18	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE
DAMASCUS 3 SSW	92	07/02	-1	01/07	03/24	16	03/27	18	03/27	18	04/16	27	04/18	31	11/08	28	11/08	28	11/18	19	11/18	19	11/19	16	11/19	16	11/19	16	11/19	16	11/19	16	11/19	16	11/19	16	11/19	16	
EMMITSBURG 2 SE	93	07/03	-2	03/05	03/06	8	03/29	17	03/29	17	03/29	17	04/18	30	11/08	30	11/15	28	11/18	23	11/19	19	11/22	14	11/22	14	11/22	14	11/22	14	11/22	14	11/22	14	11/22	14	11/22	14	
FREDERICK 2 NNE					MSG		MSG		MSG		MSG		MSG		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		
MILLERS 4 NE	91	07/02	-3	01/07	03/27	16	03/27	16	03/27	16	04/16	26	04/21	31	11/08	29	11/14	28	11/15	23	11/18	20	11/19	15	11/19	15	11/19	15	11/19	15	11/19	15	11/19	15	11/19	15	11/19	15	
SMITHSBURG 2NW					MSG		MSG		MSG		MSG		MSG		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		
<b>APPALACHIAN MOUNTAIN 07</b>																																							
CUMBERLAND 2	96	07/02	-3	01/08	03/14	12	03/27	19	03/28	22	04/17	28	04/18	30	11/08	27	11/08	27	11/16	24	11/18	19	11/22	13	11/22	13	11/22	13	11/22	13	11/22	13	11/22	13	11/22	13	11/22	13	
FROSTBURG 2	85	09/07	-12	01/08	03/27	14	04/17	20	04/17	20	04/18	28	04/25	29	11/02	29	11/08	24	11/08	24	11/15	17	11/18	10	11/18	10	11/18	10	11/18	10	11/18	10	11/18	10	11/18	10	11/18	10	
SHARPSBURG 5 S	93	07/03	12	11/20	03/28	16	03/28	16	03/28	16	04/17	28	04/25	29	11/03	28	11/03	28	11/14	24	11/15	17	11/19	12	11/19	12	11/19	12	11/19	12	11/19	12	11/19	12	11/19	12	11/19	12	
WILLIAMSPORT	93	07/02	0	01/08	03/06	13	03/28	18	03/28	18	04/18	28	04/18	28	11/17	30	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE
<b>ALLEGHENY PLATEAU 08</b>																																							
OAKLAND 1 SE	91	06/20	-13	01/08	03/28	16	04/17	20	04/17	20	04/25	28	05/20	32	10/20	32	11/02	28	11/08	24	11/14	20	11/16	16	11/16	16	11/16	16	11/16	16	11/16	16	11/16	16	11/16	16	11/16	16	
SAVAGE RIVER DAM	87	07/24	-6	01/30	03/28	16	03/28	16	03/28	16	04/17	26	04/25	31	11/08	26	11/08	26	11/15	20	11/15	20	11/18	15	11/18	15	11/18	15	11/18	15	11/18	15	11/18	15	11/18	15	11/18	15	
SINES DEEP CREEK	84	07/02	-12	01/30	03/28	13	03/28	13	03/28	13	04/17	22	04/25	30	10/20	31	11/03	24	11/03	24	11/17	14	11/17	14	11/17	14	11/17	14	11/17	14	11/17	14	11/17	14	11/17	14	11/17	14	
<b>DELAWARE</b>																																							





# MONTHLY AND SEASONAL COOLING DEGREE DAYS

## BASE = 65 DEGREES FAHENHEIT

MARYLAND AND DELAWARE  
2014

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
<b>MARYLAND</b>														
<b>SOUTHERN EASTERN SHORE 01</b>														
ASSATEAGUE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PRINCESS ANNE	0	0	0	14E	175E	-	437E	304E	222E	61E	7E	0	-	-
SALISBURY 2N	0	0	0	11E	111	261E	358	215	190	31E	0	0	1177E	-
SALISBURY FAA AP	0	0	0	14	121	293	390	304	220	33	4	0	1379	1155
SNOW HILL 4 N	0	0	0	6	113	302	368	243	193	39	0	0	1264	1194
<b>CENTRAL EASTERN SHORE 02</b>														
ROYAL OAK 2 SSW	0	0	0	7	98	278	385	268	175	26	0	0	1237	1392
<b>LOWER SOUTHERN 03</b>														
MECHANICSVILLE 5 NE	0	0	0	11	65E	201	292	192	136	8	0	0	905E	1093
SOLOMONS	0	0	0	14E	128E	334E	407E	342E	240E	62E	0	0	1527E	-
<b>UPPER SOUTHERN 04</b>														
BALTIMORE WASH INTL AP	0	0	0	7	78	256	335	241	155	12	0	0	1084	1147
BELTSVILLE	0	0	0	10	78	252	331	231	158	17	0	0	1077	1109
DALECARLIA RSVR	0	0	0	11	84E	294	350E	273E	164E	25E	0	0	1201E	1258
LAUREL 3 W	0	0	0	11	97	288	374	302	193	22	0	0	1287	1271
MARYLAND SCIENCE CENTER	0	0	0	14	116	328	422	338	217	21	0	0	1456	-
NATL ARBORETUM DC	0	0	0	14E	147E	362	419	342	206	36	0	0	1526E	1243
OXON HILL	0	0	0	14	92	264	356	270	180	23	0	0	1199	-
UPPER MARLBORO 3 NNW	0	0	0	12	83	256	345	246	165	21	0	0	1128	1002
<b>NORTHERN CENTRAL 06</b>														
ABERDEEN PHILLIPS FLD	0	0	0	6	60	236	326	207	154	14	0	0	1003	1153
BRIGHTON DAM	0	0	0	5E	54	201	267	169	112	9	0	0	817E	-
CONOWINGO DAM	0	0	0	3	33	173	260	169	103	1	0	0	742	1068
CYLBURN	0	0	0	10E	56	222	313	156	112	10	0	0	879E	-
DAMASCUS 3 SSW	0	0	0	8	61	185	249E	172	108	6	0	0	789E	-
EMMITSBURG 2 SE	0	0	0	8	50	177	262	133	102	6	0	0	738	918
FREDERICK 2 NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MILLERS 4 NE	0	0	0	3	49	167	245	159	104	4	0	0	731	790
SMITHSBURG 2NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>APPALACHIAN MOUNTAIN 07</b>														
CUMBERLAND 2	0	0	0	9	80	227E	304	222	123	13	0	0	978E	877
FROSTBURG 2	0	0	0	4	24	86E	119	66	56	0	0	0	355E	344
SHARPSBURG 5 S	-	-	0	8	45	191	235	150	102	11	0	0	-	-
WILLIAMSPORT	0	0	0	9E	62	197E	303E	202E	420E	-	0	0	-	-
<b>ALLEGHENY PLATEAU 08</b>														
OAKLAND 1 SE	0	0	0	0	21	111	131	59	53	0	0	0	375	316
SAVAGE RIVER DAM	0	0	0	0	29E	108E	144E	86E	59E	0	0	0	426E	414
SINES DEEP CREEK	0	0	0	0	9E	57E	71E	27E	29E	0	0	0	193E	-
<b>DELAWARE</b>														
<b>NORTHERN 01</b>														
WILMINGTON NEW CASTLE CO AP	0	0	0	7	60	240	352	247	149	18	0	0	1073	1125
WILMINGTON PORTER RES	0	0	0	4	54	250E	362	247	136	11	0	0	1064E	-
<b>SOUTHERN 02</b>														
DOVER	0	0	0	10	76	260	366	271	177	21	0	0	1181	1262

TOTAL PAN EVAPORATION AND WIND MOVEMENT

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
<b>MARYLAND</b>														
<b>UPPER SOUTHERN 04</b>														
BELTSVILLE	WIND	-	-	-	1947E	1405	1240E	1503	1049	1137	1606	-	-	-
	EVAP	-	-	-	4.74E	6.00E	6.46E	7.31	5.49	4.59	3.46	-	-	-
	MAX TEMP	-	-	-	59.8	76.3	84.5	83.4	84.5	81.7	69.7	58.0	-	-
	MIN TEMP	-	-	-	41.8	52.8	61.8	63.7	63.5	61.9	52.8	48.0	-	-
UPPER MARLBORO 3 NNW														
	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-
	EVAP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>ALLEGHENY PLATEAU 08</b>														
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	
<b>MARYLAND</b>												
ABERDEEN PHILLIPS FLD	0015	06	HARFORD	39 28	76 10W	57	88	88	0			CH
ASSATEAGUE	0335	01	WORCESTER	38 4	75 13W	10	45	45	0			H
BALTIMORE WASH INTL AP R	0465	04	ANNE ARUNDEL	39 10	76 41W	156	76	76	0			HJ
BELTSVILLE	0700	04	PRINCE GEORGE'S	39 2	76 56W	145	74	74	73			CH
BRIGHTON DAM	1125	06	MONTGOMERY	39 11	77 0W	330	14	51	0			H
CONOWINGO DAM	2060	06	HARFORD	39 39	76 11W	40	79	79	0			H
CUMBERLAND 2	2282	07	ALLEGANY	39 39	78 45W	730	41	41	0			H
CYLBURN	2308	06	BALTIMORE	39 21	76 39W	235	12	12	0			H
DALECARLIA RSVR	2325	04	DISTRICT OF COLUMBIA	38 56	77 7W	150	67	67	0			H
DAMASCUS 3 SSW	2336	06	MONTGOMERY	39 16	77 14W	700	22	22	0			H
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 17W	403	59	59	0			H
FREDERICK 2 NNE	3353	06	FREDERICK	39 26	77 24W	280	10	10	0			H
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2170	43	43	0			H
LAUREL 3 W	5111	04	PRINCE GEORGE'S	39 5	76 54W	400	114	117	0			H
MARYLAND SCIENCE CENTER R	5718	04	BALTIMORE (CITY)	39 17	76 37W	20	17	16	0			H
MECHANICSVILLE 5 NE	5865	03	ST. MARY'S	38 28	76 42W	100	41	50	0			H
MILLERS 4 NE	5934	06	CARROLL	39 43	76 48W	860	27	27	0			CH
NATL ARBORETUM DC	6350	04	DISTRICT OF COLUMBIA	38 55	76 58W	50	67	67	0			H
OAKLAND 1 SE	6620	08	GARRETT	39 25	79 24W	2420	116	116	0			H
OXON HILL	6800	04	PRINCE GEORGE'S	38 47	76 60W	120	13	13	0			H
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	119	119	0			H
ROYAL OAK 2 SSW	7806	02	TALBOT	38 43	76 11W	10	67	67	0			H
SALISBURY 2N	8004	01	WICOMICO	38 24	75 36W	20	3	3	0			H
SALISBURY FAA AP	8005	01	WICOMICO	38 20	75 31W	48	67	67	0			H
SAVAGE RIVER DAM	8065	08	GARRETT	39 31	79 8W	1495	64	70	43			CH
SHARPSBURG 5 S	8207	07	WASHINGTON	39 24	77 43W	500	17	17	0			H
SINES DEEP CREEK	8315	08	GARRETT	39 31	79 25W	2040	40	40	0			H
SMITHSBURG 2NW	8371	06	WASHINGTON	39 40	77 35W	670	13	13	0			H
SNOW HILL 4 N	8380	01	WORCESTER	38 14	75 23W	30	99	99	0			H
SOLOMONS	8405	03	CALVERT	38 19	76 27W	12	104	104	0			H
UPPER MARLBORO 3 NNW	9070	04	PRINCE GEORGE'S	38 51	76 46W	130	58	58	56			H
WILLIAMSPORT	9570	07	WASHINGTON	39 37	77 51W	360	17	49	0			H
<b>DELAWARE</b>												
DOVER	2730	02	KENT	39 9	75 30W	30	112	112	0			H
MILTON #	6102	02	SUSSEX	38 49	75 12W	4	1	1	0	MAY		H
MILTON 1SE	6104	02	SUSSEX	38 46	75 17W	33	0	0	0	AUG		H
WILMINGTON NEW CASTLE CO AP R	9595	01	NEW CASTLE	39 40	75 36W	79	67	67	0			HJ
WILMINGTON PORTER RES	9605	01	NEW CASTLE	39 46	75 32W	270	83	84	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 Climatic Data Center. Historical information of regular National Weather Service Offices may be obtained from the "Local Climatological Data" annual publication. The contents of this publication may be reprinted or otherwise used freely, with proper credit to the National Climatic Data Center. The data are also available digitally.

## 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 NCDC's Product Development 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. NCDC's Product Development 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 NCDC's nClimDiv product. Beginning in February 2014, the nClimDiv product is used by NCDC's Climate 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>.

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NCDC now offers free online access to the *Climatological Data* publication.  
Go to : [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov) and choose Most Popular.