

# Northeast Regional Climate Center

## Mid-Atlantic Climate

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### APRIL 2013

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# CLIMATE DIVISION MAPS



## New Jersey Climate Divisions

- 1 Northern
- 2 Southern
- 3 Coastal



## Delaware Climate Divisions

- 1 Northern
- 2 Southern



## Maryland Climate Divisions

- 1 Southeastern Shore
- 2 Central Eastern Shore
- 3 Lower Southern
- 4 Upper Southern
- 5 Northeastern Shore
- 6 Northern Central
- 7 Appalachian Mountain
- 8 Allegheny Plateau

## APRIL WEATHER HIGHLIGHTS

The Mid-Atlantic was warmer than normal in April. With an average temperature of 53.4 degrees, it was 0.8 degrees warmer than average, but the coolest April since 2007. With a departure of +1.5 degrees, Delaware was the warmest state. It was the 19<sup>th</sup> warmest April since 1895 for the state and its Southern division had its 18<sup>th</sup> warmest April. Maryland ended the month with a departure of +0.8 degrees. Three of the state's eight divisions ranked this April among their top 20 warmest. New Jersey finished April with a departure of +0.7 degrees. The region's highest and lowest temperatures both occurred in Maryland. On the 15<sup>th</sup>, Oakland cooled to 15 degrees and on the 10<sup>th</sup> the Maryland Science Center in Baltimore reported a high of 96 degrees.

For a third consecutive month the Mid-Atlantic received below-normal precipitation. The region's 3.06 inches was 81 percent of normal. New Jersey and its divisions were all drier than normal with the state receiving 67 percent of normal April precipitation. As for Maryland, five of its eight divisions were drier than normal and by the close of the month the state had received 88 percent of normal precipitation. Despite one dry division and one wet one, Delaware wrapped up April with 105 percent of normal precipitation. Salisbury, MD, reported 4.53 inches of monthly precipitation while Millville, NJ, reported 1.66 inches on the 12<sup>th</sup>. Two locations in Maryland, Baltimore Washington International Airport and Frostburg, were the only sites to report snow, a trace, during the month.

Warm air south of a stalled front helped all 6 first-order climate sites in the region to set record highs on the 9<sup>th</sup> or 10<sup>th</sup>. Severe thunderstorms that formed along a potent cold front on the 19<sup>th</sup> spawned a tornado near Largo in Prince Georges County, MD. The 75-yard wide EF-0 tornado with estimated wind speeds of 85 mph touched down for a ½ mile and caused structural damage and uprooted trees.

### Daily Maximum Temperature Records (°F)

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Newark, NJ	9	85	84 in 1991
Atlantic City, NJ	9	85	85 in 1959
Washington Dulles, DC	10	89	78 in 1992
Atlantic City, NJ	10	89	85 in 1922
Wilmington, DE	10	90	84 in 1922
Baltimore, MD	10	91	89 in 1922
Washington National, DC	10	91	89 in 1922

### Daily Minimum Temperature Records (°F)

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Atlantic City, NJ	2	23	23 in 1964
Baltimore, MD	3	27	27 in 1985
Washington Dulles, DC	4	22	22 in 1965
Atlantic City, NJ	4	24	24 in 1967

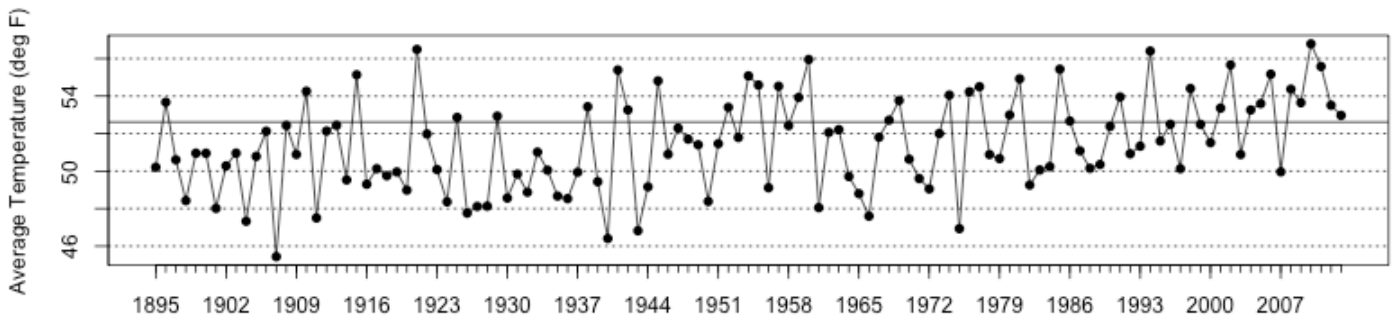
### Daily High Minimum Temperature Records (°F)

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Washington Dulles, DC	10	58	56 in 1969

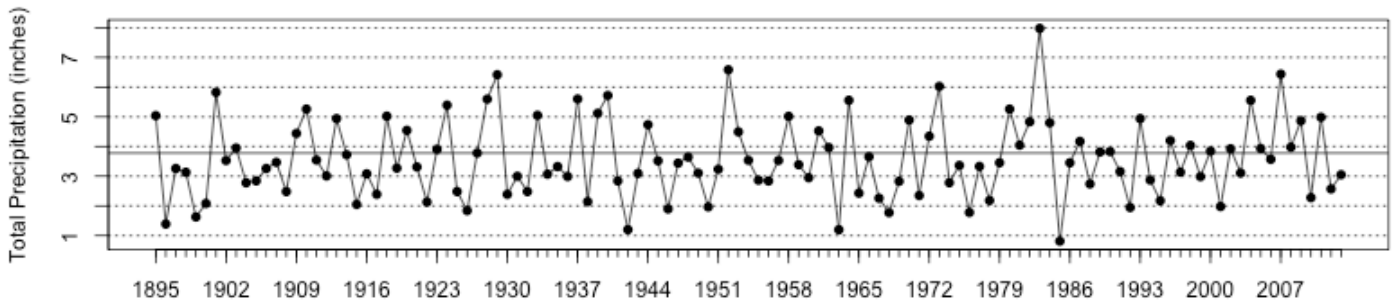
### Daily Precipitation Records (inches)

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Washington Dulles, DC	19	1.20	0.75 in 1998

**Mid Atlantic Average April Temperatures**



**Mid Atlantic April Precipitation Totals**



The 2013 values depicted on these graphs are based on preliminary data.

## **Rather dry and not as chilly as you might think: April 2013 Summary and 2012-2013 Snow Season Recap**

Dr. David A. Robinson, New Jersey State Climatologist  
NJ Agricultural Experiment Station, Rutgers University

While many wondered if spring would ever arrive across the Garden State, the average April temperature was actually close to the long-term mean. At 51.5°, the month was 0.3° above average, ranking as the 35<sup>th</sup> mildest April since statewide records were established in 1895. Using the central NJ city of New Brunswick as an example, 16 days were above average, 12 below, and two spot on average.

Precipitation was below average, coming in at 2.72", which is 1.34" below normal and ranks as the 40<sup>th</sup> driest since 1895. Fortunately, rainfall was distributed across each week, thus despite the dry conditions in a month that is traditionally prone to forest and brush fires, not too many blazes erupted. The year to date has seen an average of 11.94" of rain and melted snow fall over NJ. This is 2.69" below average and ranks as the 28<sup>th</sup> driest start of the past 119 years. The 3-month total of 9.02" was the 30<sup>th</sup> driest and 2.13" below average. The past six months have been the 46<sup>th</sup> driest (19.14") and the past 12 months 69<sup>th</sup> driest (or 50<sup>th</sup> wettest; 46.18"). Thus reservoir levels are near average, while short-term streamflow and groundwater levels are somewhat below average.

Returning to April, west central and far southern areas were wettest, with Franklin Township (Hunterdon County) topping the list at 3.50", Frenchtown (Hunterdon) next at 3.41", Blairstown (Warren) 3.38", Middle Township (Cape May) 3.31", and Wildwood Crest (Cape May) 3.27". It is notable that all of these totals are below the normal statewide April average. Bergen County in the northeast was home to the driest five April totals. Palisades Park received 1.08", Wood Ridge 1.41", Saddle Brook 1.48", North Arlington 1.51", and Glen Rock 1.52".

The first notable rainfall of the month occurred in Cape May County on the morning of the 5<sup>th</sup>, with 1.13" falling in Sea Isle City, 1.11" in Middle Township, and 1.07" at Wildwood Crest. Totals gradually decreased to the northwest, with no rain falling north of Monmouth and Burlington counties. Even with a little of this rain falling in the Pinelands, a 150-acre fire burned in a remote section of Wharton State Forest on the 6<sup>th</sup>-7<sup>th</sup>. That weekend saw approximately 40 other fires in central and northern NJ, though cumulatively, not more than 30 acres burned. Dry and increasingly warm conditions over the next several days led to a brush fire near the Lombardi rest stop at the north end of the NJ Turnpike on the 9<sup>th</sup>. The evening of the 10<sup>th</sup> into the early hours of the 11<sup>th</sup> saw drenching thunderstorms over much of NJ, the first significant outbreak of 2013. All but the extreme south received at least several tenths of an inch, with over 0.50" falling from Mercer, Middlesex, and Monmouth counties northward. Frenchtown (Hunterdon) received 1.33", Kingwood (Hunterdon) 1.15", and four CoCoRaHS stations in Blairstown (Warren) observing 1.19", 1.12", 1.11", and 1.11".

Another bout of rain occurred from the predawn hours of the 12<sup>th</sup> through predawn of the 13<sup>th</sup>. The entire state received at least several tenths, the most falling from Salem and western Cumberland counties northeastward to Monmouth, where generally 1.00"-1.50" was measured. The least rain fell in the far southeast and far northwest. Washington Township (Gloucester) caught 2.00", two Berlin (Camden) stations had 1.88" and 1.72", and 1.63" fell in Medford Township (Burlington).

Scattered showers and thundershowers on the afternoon of the 19<sup>th</sup> into the morning of the 20<sup>th</sup> resulted in a complex pattern of precipitation across the state. The northwest and southern quarter received 0.75"-1.00", while the least (several tenths) fell from the northeast into central areas, down into the Pinelands, and eastward to the northern coast. Two Franklin Township (Hunterdon) stations caught the most with 1.51" and 1.28, followed by Frenchtown (Hunterdon) 1.30" and Alexandria Township (Hunterdon) 1.28". The last notable April rainfall occurred from the early hours of the 29<sup>th</sup> to predawn on the 30<sup>th</sup>. Much as the month started, the heaviest rain was in the southeast, with 1.26" at Wildwood Crest and 1.21" in Middle Township and Stone Harbor, all in Cape May County. Only a few tenths fell over the remainder of southern and central NJ, with under a tenth across the northern quarter of the state.

Accumulating snow was not observed in April, and assuming none will fall in May, the 2012-2013 snow season concluded with a state average of 20.8" falling. This makes the season the 72<sup>nd</sup> snowiest of the past 119 seasons, coming in at 4.1" below average. The northern third of the state average 32.4" (2.2" below average and 63<sup>rd</sup> snowiest), the central area 24.7" (4.1" below average and 68<sup>th</sup> snowiest), and the southern third 12.7" (7.1" below average and 86<sup>th</sup> snowiest). There were 17 snowfall events from early November to late March where

one or more locations in the state received 2.0" or more of the white stuff. The majority of these events were not particularly heavy, although three of them resulted in accumulations exceeding 10.0" in at least several locations. This includes the exceptional event on November 7-8 where locations in Monmouth and Ocean counties caught more than 10", including 13.0" at Freehold (Monmouth), right on the heels of Sandy. The largest storm of the season occurred on February 8-9, with eight counties catching more than 10.0" (Bergen, Essex, Hudson, Monmouth, Morris, Passaic, Sussex and Union), topped by 16.8" in River Vale (Bergen). March 7-8 saw Highland Lakes (Sussex) receive 11.8" and at least 10.0" falling in higher elevations of Bergen, Morris, Passaic, and Sussex counties.

NJ residents had endured a rather chilly March, thus the first 70° day of 2013 was welcomed on the 4<sup>th</sup> by those in the southern half of the state. Those in the north would have to wait another five days for every area to top the 70° mark. There were nine April days when at least one of the 54 [NJ Weather and Climate Network](#) stations equaled or exceeded 75°. Mansfield (Burlington) hit 75° on the 4<sup>th</sup>. Red Lion (Burlington) at 80° on the 8<sup>th</sup> was the first to reach that threshold. Four other stations came in at 79° that day. On the 9<sup>th</sup>, 49 stations topped out between 80°-86°, the warmest location being Egg Harbor (Atlantic) at 86°. High Point Monument (Sussex) at 72° was the coolest of the five stations in the 70°s.

The 10<sup>th</sup> saw an enormous range of afternoon temperatures across NJ. Sicklerville (Camden) reached 91° and Egg Harbor, Red Lion, Oswego Lake (Burlington), and Cherry Hill (Camden) 90°. 29 stations were between 80°-89°, while Seaside Heights (Ocean) and High Point Monument only made it to 67°. Once a significant sea breeze kicked in the thermometer fell to 50° at Seaside Heights at 3PM while it was 90° just 30 miles to the west in Sicklerville! Some warmth lingered following the thunderstorms later on the 10<sup>th</sup> such that Upper Deerfield and Greenwich, both in Cumberland County, made it to 81° on the 11<sup>th</sup>.

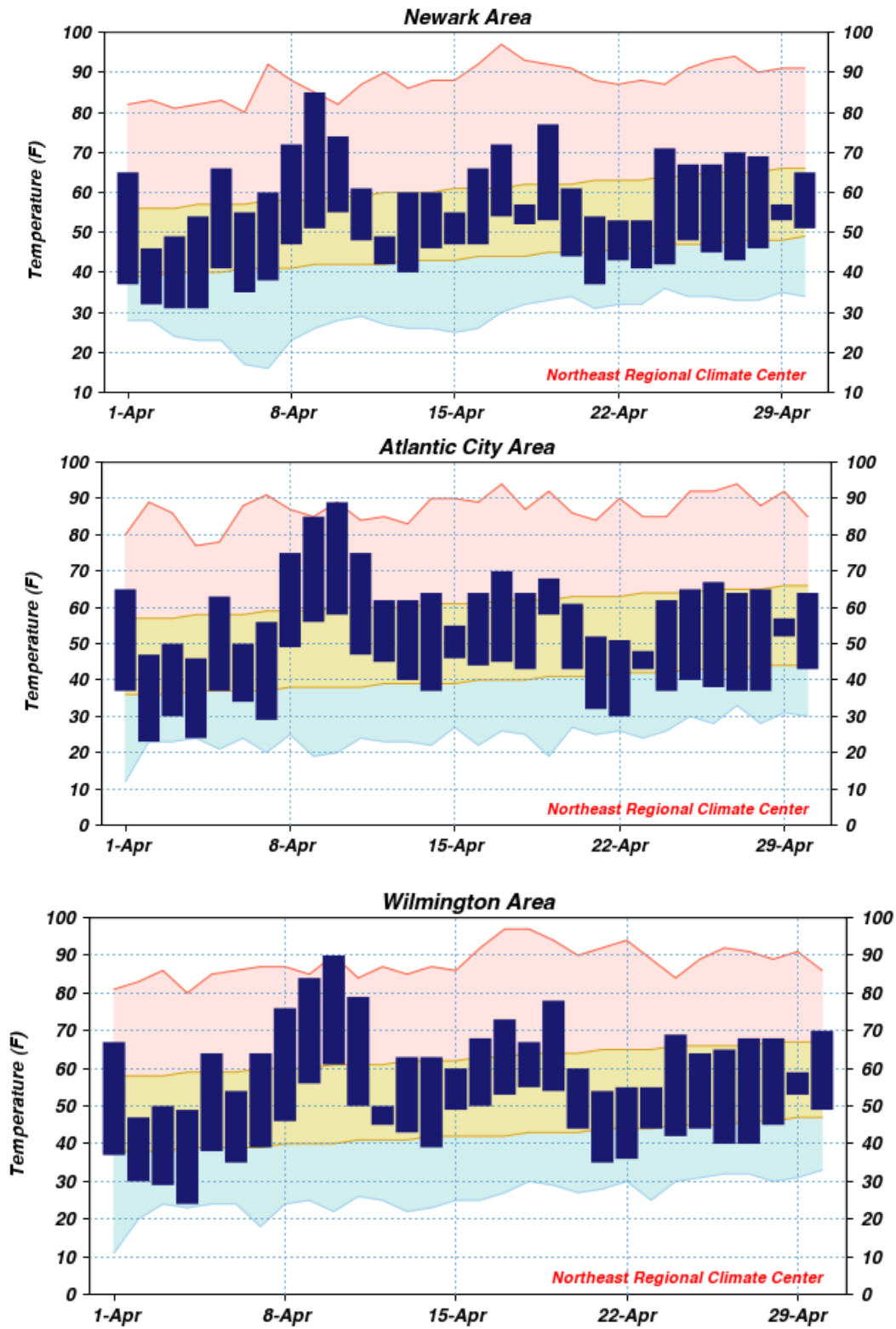
The thermometer rose to 75° in Clayton (Salem) and Red Lion (Burlington) on the 16<sup>th</sup>, followed by this same value in Dennis Township (Cape May) and Hamilton (Mercer) on the 17<sup>th</sup>. Red Lion, Hillsborough (Somerset), and Hamilton reached 80° on the 19<sup>th</sup>. Basking Ridge (Somerset) topped out at 77° on the 24<sup>th</sup>, with four stations at 75°.

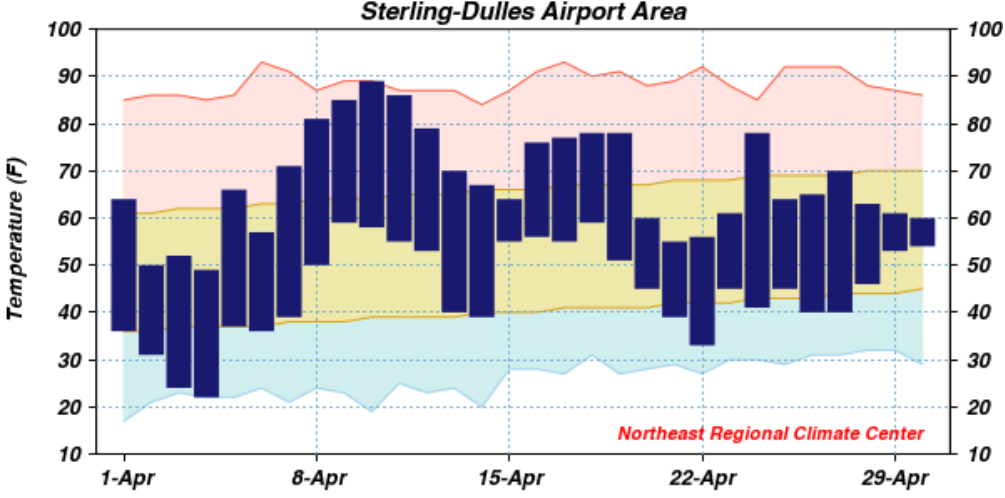
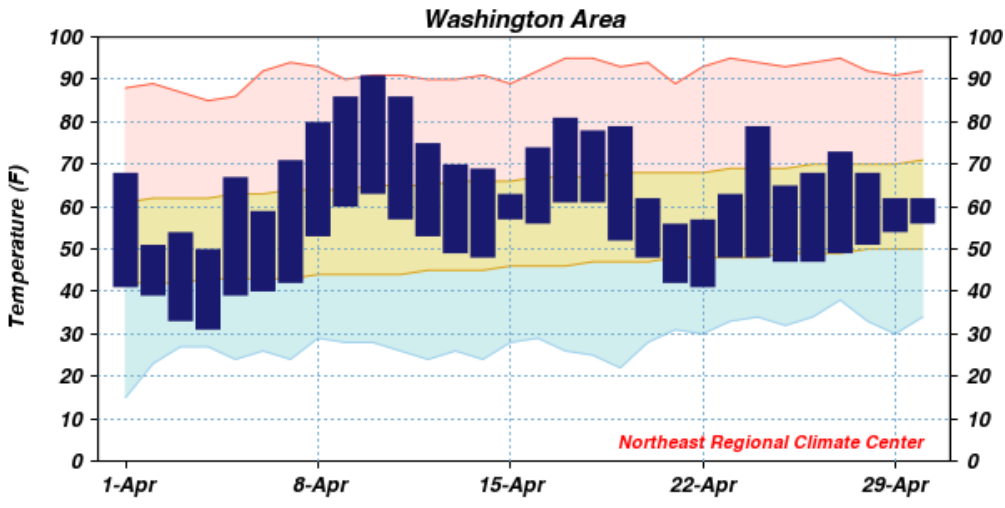
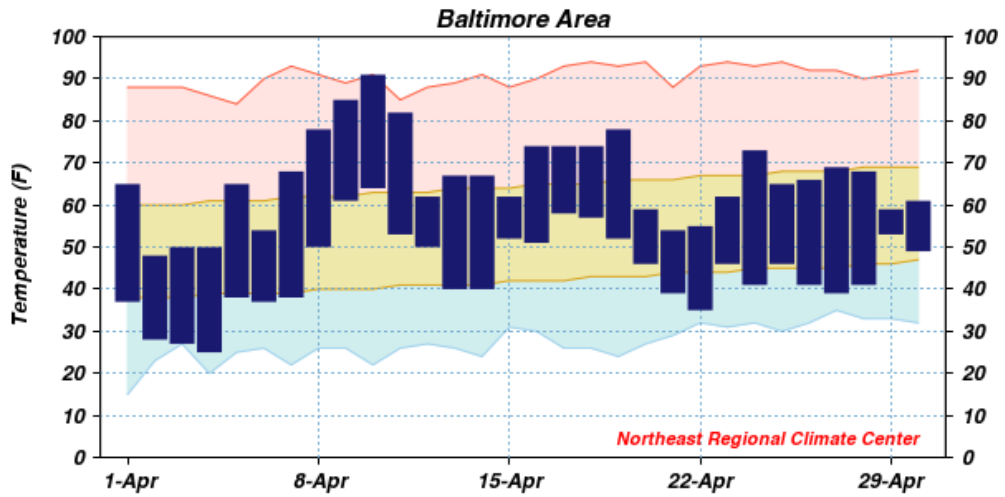
On the chilly side of the ledger, low temperatures were at or below freezing at one or more locations on 16 April days. Six days saw a location fall to 25° or colder. The first of these days was the 2<sup>nd</sup>, when cold air drainage resulted in the valley locations of Walpack (Sussex) dropping to 18° and Pequest (Warren) 20°. On the 3<sup>rd</sup>, Pequest reached 21° and Kingwood (Hunterdon) 22°. The coldest morning of the month was the 4<sup>th</sup>, with 53 of the 54 NJWxNet stations dropping to 32° or colder. Only West Cape May (Cape May) at 34° escaped a freeze, and was the only station remaining above freezing throughout April. Walpack chilled to 18° and Pequest 20° on the 4<sup>th</sup>. High Point Monument was 24° on the 6<sup>th</sup> and Berkeley Township (Somerset) 25° on the 7<sup>th</sup>. The 21<sup>st</sup> saw Walpack fall to 24° and 20 other NJWxNet stations drop below freezing.

March's eleven days with winds gusting to 40 mph or greater at one or more NJ stations was almost equaled by ten such April days. The first four days of April saw maximum gusts at High Point Monument of 43, 41, 48, and 42 mph, respectively. Seaside Heights reached 40 mph on the 1<sup>st</sup> and Sea Girt (Monmouth) 40 mph on the 3<sup>rd</sup>. High Point Monument reached 41 mph on the 6<sup>th</sup>. Wantage hit 44 mph on the 9<sup>th</sup> and High Point Monument 42 mph. Storms on the 10<sup>th</sup> brought gusts of 49 mph to Point Pleasant (Ocean), 47 mph to Wantage, and 40-42 mph gusts at four other locations. Kingwood (Hunterdon) had a 44 mph gust on the 12<sup>th</sup>. The 19<sup>th</sup> was the windiest day of April, with Upper Deerfield (Cumberland) topping out at 58 mph, Stewartsville (Warren) 53 mph, and four stations reaching 40-48 mph. Finally, a 55 mph gust was observed at High Point Monument and 46 mph at Wantage on the 25<sup>th</sup>.

The highest pressure of the month (and thus far 2013) occurred on the 22<sup>nd</sup>, with most barometers close to 30.65". Both the 1<sup>st</sup> and 19<sup>th</sup> saw the month's lowest pressure, each day close to 29.60".

# DAILY AVERAGE TEMPERATURES AND THE 30-YEAR NORMAL

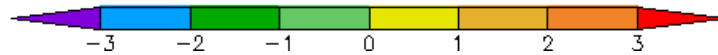
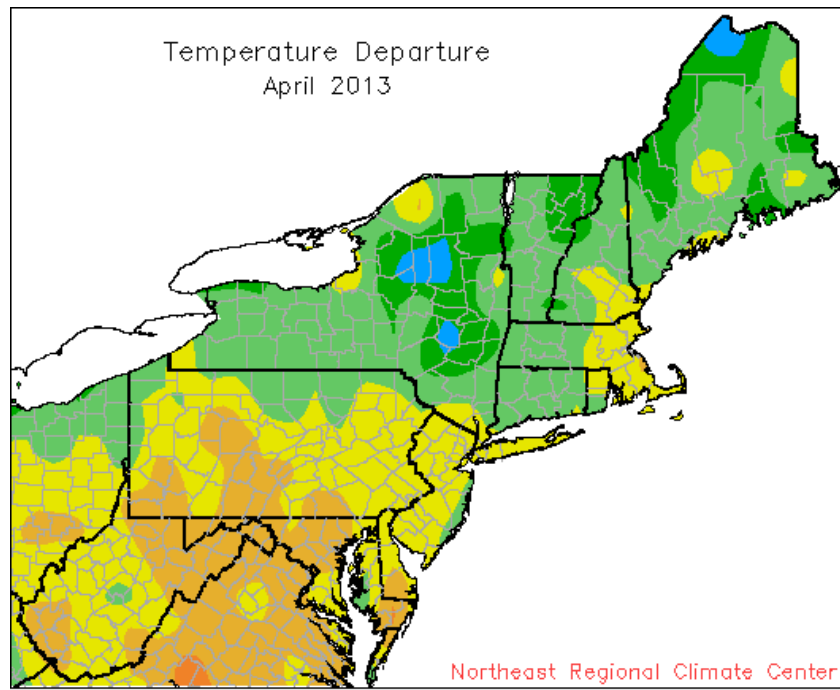
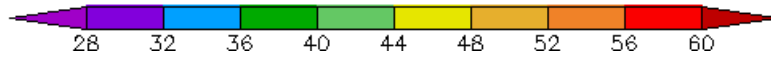
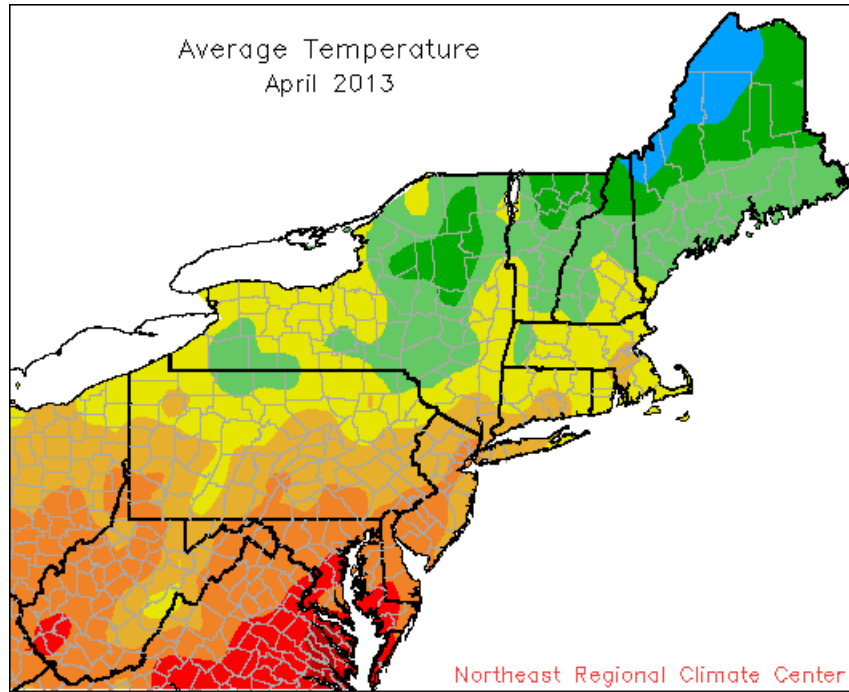




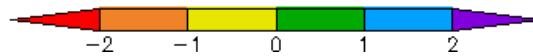
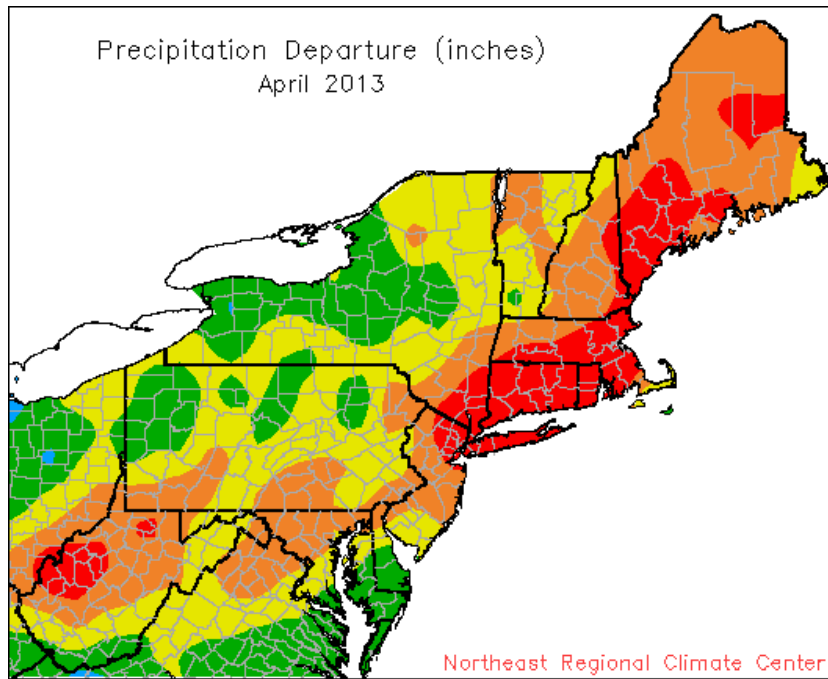
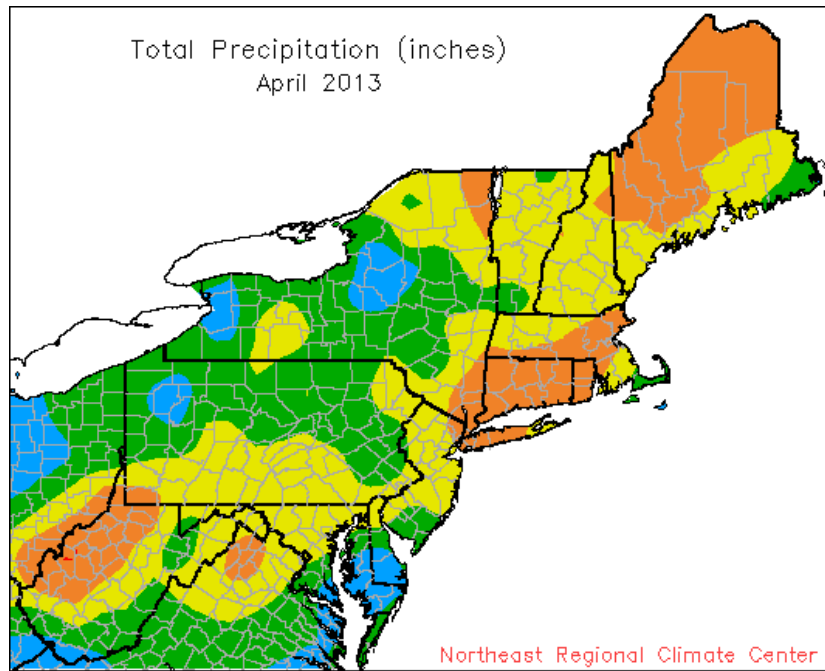
Area between normal max and min temperatures has tan shading.  
 Red line connects record high temperatures.  
 Light blue line connects record low temperatures.



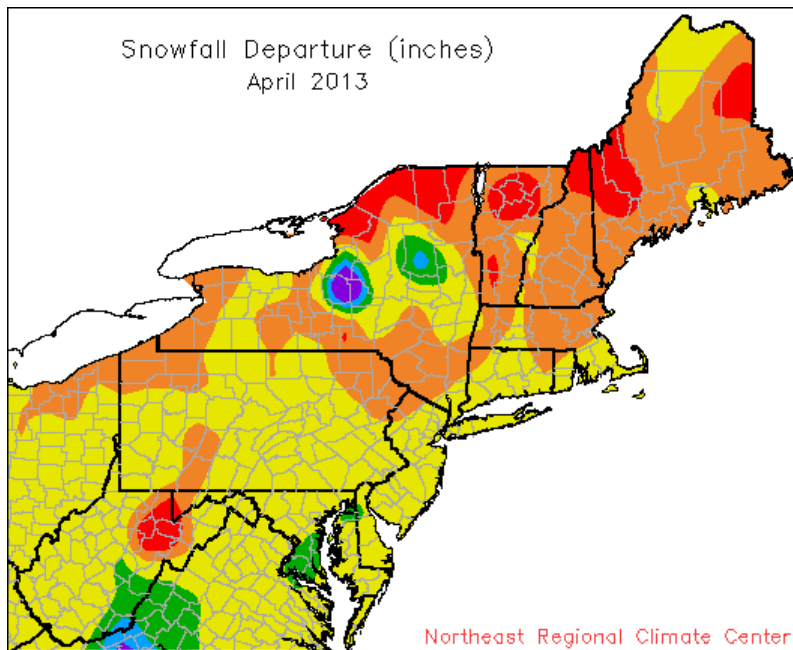
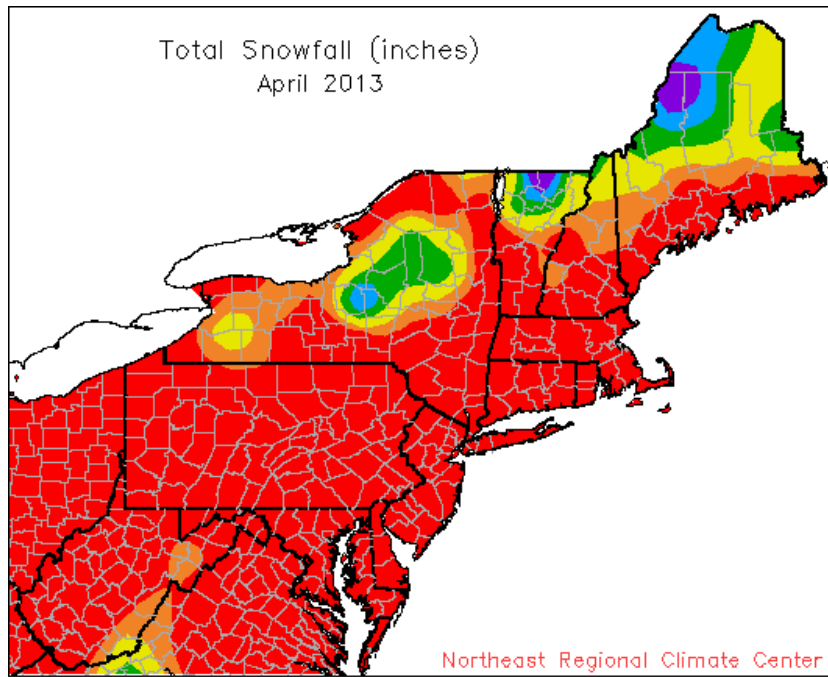
# MONTHLY TEMPERATURE MAPS



# MONTHLY PRECIPITATION MAPS



# MONTHLY SNOWFALL MAPS



# PRELIMINARY MONTHLY SUMMARIZED DATA APRIL 2013

STATION	TEMPERATURE (F)								PRECIPITATION (INCHES)										
	MONTHLY AVERAGES				EXTREMES				NUMBER OF DAYS				MONTHLY TOTALS			EXTREMES		SNOWFALL	
	AVG MAX	AVG MIN	MON AVG	DEPRT AVG	MON MAX	DAY MIN	MON MAX	DAY MIN	MAX 50+	MIN 32-	32- 0-	0-	MON TOT	DEPRT TOT	DAYS 0.1+	DLY MAX	DAY MAX	MON TOT	DLY MAX
-DE: NORTHERN-																			
WILMINGTON NEW CAS	64.4	43.5	54.0	0.7	90	10	24	4	28	0	3	0	2.69	-0.81	6	1.07	12	0	
WILMINGTON PORTER R													1.62	-2.59	5	0.45	29+	0	
-DIVISION-			54.0	1.0									2.69	-1.07				0	
-DE: SOUTHERN-																			
DOVER	66.2	44.7	55.5	0.5	88	10	26	4+	29	0	3	0	4.24	0.36	6	1.35	12	NM	
-DIVISION-			55.5	1.7									4.24	0.53					
-STATE-			55.2	1.5									3.90	0.18				0	
-MD: SOUTHEASTERN-																			
SALISBURY WICOMICO	68.9	45.5	57.2	3.2	90	10	26	3	30	0	3	0	3.78	0.23	7	1.16	29	0	
SNOW HILL 4 N *	68.7	43.9	56.3	0.5	89	10	25	4+										NM	
SALISBURY 2N	68.9	44.5	56.7		87	11+	26	4	30	0	4	0	4.53		6	1.35	29	NM	
-DIVISION-			56.7	2.1									4.16	0.64				0	
-MD: CENTRAL EAST-																			
ROYAL OAK 2 SSW	66.4	45.1	55.8	-0.5	88	10	26	4	29	0	2	0	3.89	0.03	5	1.21	20	0	
-DIVISION-			55.8	0.4									3.89	0.09				0	
-MD: LOWER SOUTHE-																			
MECHANICSVILLE 5 N	67.6	41.3	54.4	-0.2	91	11	24	4+	29	0	5	0							
SOLOMONS	64.5	48.2	56.4	-0.0	89	11	33	4+	29	0	0	0						0	
-DIVISION-			55.4	0.5									4.32	0.90				0	
-MD: UPPER SOUTHE-																			
BALTIMORE WASH INT	66.2	44.5	55.3	1.6	91	10	25	4	29	0	3	0	2.20	-0.99	5	0.79	19	T	T
BELTSVILLE	66.5	43.6	55.1	1.4	89	11	23	4	28	0	3	0	2.00	-1.35	6	0.74	20	0	
DALECARLIA RSVR	68.2	45.0	56.6	0.4	91	11	26	4	28	0	3	0	1.97	-1.69	5	0.72	12	0	
LAUREL 3 W	67.0	45.8	56.4	1.3	90	10	27	4	28	0	2	0	2.77	-1.04	7	0.95	19	NM	
MD SCI CTR BALTIMO	69.6	51.0	60.3	3.7	96	10	34	4	30	0	0	0	2.21	-1.01	4	0.76	19	NM	
NATL ARBORETUM DC*	69.0	46.0	57.5	1.1	93	11	27	4										NM	
OXON HILL	68.4	44.5	56.4	-0.1	91	11	27	4	30	0	3	0	2.84	-0.56	6	1.18	20		
UPPER MARLBORO 3 N	67.2	43.3	55.3	1.0	90	11	23	4	29	0	4	0	2.78	-0.77	6	0.91	20	NM	
-DIVISION-			56.6	1.7									2.40	-1.11				0	
-MD: NORTHEASTERN-																			
STEVENSVILLE	64.7	46.2	55.4	0.7	88	11	33	5	28	0	0	0	3.28		6	0.96	13	0	
-DIVISION-			55.4	1.2									3.28	-0.39				0	
-MD: NORTHERN CEN-																			
ABERDEEN PHILLIPS	64.4	42.7	53.5	-0.6	90	11	25	4	28	0	4	0	2.60	-1.07	5	0.95	13	0	
BRIGHTON DAM	65.7	40.6	53.2		90	11	21	4	28	0	6	0	2.89		6	1.15	20	0	
CONOWINGO DAM	62.9	40.0	51.4	-2.1	89	11	25	5+	27	0	4	0	2.30	-1.63	5	1.00	20	0	
CYLBURN	64.6	44.3	54.4	1.1	91	11	25	4	27	0	4	0						NM	
DAMASCUS 3 SSW	64.5	43.2	53.8	0.7	89	10	22	4	27	0	5	0	2.48	-1.15	3	1.24	19	0	
EMMITSBURG 2 SE	64.1	39.9	52.0	0.9	89	11	19	5+	26	0	7	0	1.76	-2.15	4	0.56	13	0	
MILLERS 4 NE	65.1	42.0	53.5	1.8	87	10	21	4	27	0	5	0	2.51	-1.20	5	1.33	20	0	
-DIVISION-			53.1	0.1									2.42	-1.20				0	
-MD: APPALACHIAN -																			
CUMBERLAND 2	68.1	42.3	55.2	0.7	89	11	22	5+	27	0	6	0	2.61	-0.69	5	1.30	12	NM	
FROSTBURG 2	61.1	36.3	48.7	1.2	82	11	17	4	24	0	13	0	3.28	-0.59	6	1.13	12		
SHARPSBURG 5 S	65.8	39.0	52.4	1.1	90	11	19	4	26	0	8	0	2.15	-1.47	7	0.75	20	NM	
WILLIAMSPORT *	66.1	40.4	53.3	1.2	85	10	22	5											
-DIVISION-			52.4	0.9									2.68	-0.81					
-MD: ALLEGHENY PL-																			
OAKLAND 1 SE	60.2	35.6	47.9	1.3	82	11	15	4	24	0	13	0	3.38	-0.49	7	0.68	17	0	
SAVAGE RIVER DAM *	62.6	38.4	50.5	1.8	81	11	19	4										NM	
SINES DEEP CREEK *	61.2	33.9	47.6		81	11	17	4										NM	
KITZMILLER 1 W	63.1	39.9	51.5		83	11	22	4	27	0	7	0						NM	
-DIVISION-			49.4	1.3									3.38	-0.28				0	
-STATE-			54.3	0.8									3.15	-0.44				0	

STATION	TEMPERATURE (F)								PRECIPITATION (INCHES)										
	MONTHLY AVERAGES				EXTREMES		NUMBER OF DAYS				MONTHLY TOTALS			EXTREMES		SNOWFALL			
	AVG MAX	AVG MIN	MON AVG	DEPRT	MON MAX	DAY MIN	MON MAX	DAY MIN	50+	32-	32-	0-	MON TOT	DEPRT	DAYS 0.1+	DLY MAX	DAY	MON TOT	DLY MAX
-NJ: NORTHERN-																			
BELVIDERE BRG *	60.7	37.2	48.8	-0.5	82	11	20	3					2.62	-1.33	4	1.03	20	0	
BOONTON 1 SE *	62.9	39.2	51.1	0.8	81	10	27	8+											
BOUND BROOK 2 W													2.10	-2.00	5	0.59	20	NM	
CANOE BROOK	61.9	40.5	51.2	1.0	83	10	29	4	28	0	4	0							0
CHARLOTTEBURG RSVR	58.8	37.9	48.4	-0.4	77	10	27	3+	26	0	9	0							
CRANFORD	63.1	44.6	53.9	2.6	85	20	27	4	28	0	4	0	2.09	-2.24	6	0.57	13		0
FLEMINGTON 5 NNW	62.8	39.3	51.0	1.0	86	11	26	4	27	0	7	0	3.43	-0.87	5	1.01	20+		
HARRISON	61.1	43.3	52.2	-0.6	83	10	31	3+	27	0	2	0	1.84	-2.81	5	0.64	11		
LAMBERTVILLE													2.85	-1.26	5	0.79	11	NM	
NEWARK INTL AP	62.3	44.0	53.2	0.4	85	9	31	4+	27	0	3	0	1.47	-2.73	3	0.69	12		0
PHILLIPSBURG EASTO	62.4	40.4	51.4	1.2	87	11	29	4+	27	0	6	0	2.75		4	0.94	20		
POTTERSVILLE 2 NNW	62.6	39.7	51.2		83	11	28	4+	27	0	5	0	2.62	-1.82	5	0.96	20		
RINGWOOD	62.3	39.3	50.8		81	10	28	4+	27	0	6	0						NM	
SUSSEX 2 NW	60.3	36.8	48.6	1.1	79	10	25	4	26	0	10	0	2.06	-2.45	4	0.66	20		0
WAYNE	62.1	42.3	52.2		84	11	30	4+	27	0	3	0	2.33		4	0.80	13		0
WERTSVILLE 4 NE *	61.9	40.4	51.1	1.1	85	11	25	4					2.75	-1.44	5	1.01	11	NM	
RIEGELSVILLE																			0
TOCKS ISLAND	60.5	39.6	50.1		80	10	26	4+	27	0	6	0						NM	
-DIVISION-			51.0	1.1									2.40	-1.91					0
-NJ: SOUTHERN-																			
ATLANTIC CITY INTL	62.2	40.5	51.3	-0.4	89	10	23	2	27	0	6	0	2.74	-0.89	5	0.74	29		0
ESTELL MANOR	64.7	39.6	52.2	0.4	89	11	23	4	29	0	6	0	3.80	-0.22	7	0.83	13		
FREEHOLD MARLBORO	63.5	40.7	52.1	0.2	85	10	24	23	28	0	5	0	2.13	-2.05	4	0.97	13	NM	
HAMMONTON 1 NE	64.1	41.0	52.5	0.3	89	11	26	5	27	0	5	0	3.15	-1.05	7	0.95	13		0
HIGHTSTOWN 2 W	63.5	38.2	50.9	-0.2	87	11	26	4	26	0	7	0	2.32	-1.69	5	1.11	13		0
INDIAN MILLS	65.6	41.4	53.5	1.4	88	10	21	4	28	0	6	0							0
MILLVILLE MUNI AP	64.0	40.0	52.0	0.4	88	10	20	4	28	0	7	0	3.78	0.02	5	1.66	12	NM	
NEW BRUNSWICK 3 SE	62.7	41.1	51.9	1.0	84	10	28	4	27	0	4	0	2.34	-1.89	5	0.92	11		0
SEABROOK FARMS	64.0	43.5	53.8		88	11	27	4	28	0	5	0	3.05		6	1.33	13		0
SOMERDALE 4 SW	63.4	39.7	51.6		88	11	23	4	27	0	5	0	2.91	-0.94	8	1.11	13	NM	
ATSION *	66.2	41.9	54.0		89	11	24	4											NM
TRENTON MERCER CO	62.4	42.2	52.3	1.1	87	10	27	4	26	0	3	0	2.27	-1.27	5	0.93	12	NM	
PHILADELPHIA MT HO	63.4	42.3	52.9		88	11	27	4	26	0	3	0	2.42		7	0.94	13		0
-DIVISION-			52.4	0.5									2.81	-1.14					0
-NJ: COASTAL-																			
CAPE MAY 2 NW	62.1	43.7	52.9	0.6	86	10	29	4	29	0	1	0	3.48	-0.05	6	1.08	5		0
LONG BRANCH OAKHUR	57.2	41.3	49.2	-0.8	84	10	29	4+	23	0	4	0	3.28	-1.11	6	1.31	13	NM	
-DIVISION-			51.1	-0.0									3.38	-0.31					0
-STATE-			51.8	0.7									2.70	-1.36					0

\* = One to four days of missing temperature data + = This value also occurred on one or more previous dates this month.

All means are for the years 1981-2010. NM = Snowfall is not measured.

These data are considered preliminary, published data from the National Climatic Data Center may differ somewhat from the values shown here.

# PRELIMINARY MONTHLY DEGREE DATA APRIL 2013

STATION	HEATING DEGREE DAYS (BASE 65)				COOLING DEGREE DAYS (BASE 65)				GROWING DEGREE DAYS (BASE 50)			
	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON
-DE: NORTHERN- WILMINGTON NEW CAST	340	-23	4495	-174	17	6	17	5	177	26	177	-10
-DE: SOUTHERN- DOVER	307	-11	4203	55	31	13	31	11	216	25	220	-26
-MD: SOUTHEASTERN SHORE- SALISBURY WICOMICO	273	-72	3748	-532	46	31	46	29	262	90	267	39
SALISBURY 2N	280				38		38		247		254	
-MD: CENTRAL EASTERN SHORE- ROYAL OAK 2 SSW	295	16	4020	84	25	6	25	4	218	0	223	-58
-MD: LOWER SOUTHERN- MECHANICSVILLE 5 NE	337	7	4556	71	28	10	28	7	198	11	198	-47
SOLOMONS	269	-10			18	-2	18	-2	232	15	232	-36
-MD: UPPER SOUTHERN- BALTIMORE WASH INTL	309	-45	4350	-265	26	13	26	12	214	51	214	7
BELTSVILLE	314	-40	4413	-171	23	8	23	6	212	44	215	0
DALECARLIA RSVR	278	-14	4297	12	34	8	34	4	256	31	261	-28
LAUREL 3 W	289	-27	4210	-156	36	16	36	13	239	41	239	-16
MD SCI CTR BALTIMOR	186	-92			51	27	51	26	332	106	355	66
OXON HILL	283	1	4162	-6	33	7	33	6	239	13	243	-44
UPPER MARLBORO 3 NN	318	-20	4409	-100	34	15	34	13	218	37	219	-13
-MD: NORTHEASTERN SHORE- STEVENSVILLE	299	-19	4132	-75	20	12	20	11	204	33	204	-3
-MD: NORTHERN CENTRAL- ABERDEEN PHILLIPS F	350	10			14	1	14	0	175	2	176	-33
BRIGHTON DAM	354				6				172			
CONOWINGO DAM	410	54			8	-2			131	-23	131	-51
CYLBURN	339	-24			27	16	27	16	196	40	198	11
DAMASCUS 3 SSW	350	-20			21	6			186	24		
EMMITSBURG 2 SE	400	-23	5066	-130	16	10	16	10	161	42	161	15
MILLERS 4 NE	356	-52	4815	-327	19	10	19	9	179	45	180	13
-MD: APPALACHIAN MOUNTAIN- CUMBERLAND 2	320	-10			36	20	36	18	238	47	240	-1
FROSTBURG 2	487	-41	6110	-43	8	4	8	4	125	34	125	13
SHARPSBURG 5 S	386	-36	5081	-27	15	6	15	6	176	48	177	19
-MD: ALLEGHENY PLATEAU- OAKLAND 1 SE	510	-41			3	2	3	2	100	25	100	9
KITZMILLER 1 W	409		5602		9		9		158		158	
-NJ: NORTHERN- CANOE BROOK	414	-35			4	-3	4	-4	110	6	110	-13
CHARLOTTEBURG RSVR	491	2			0	-5			82	-1		
CRANFORD	341	-77			16	9	16	9	168	49	177	34
FLEMINGTON 5 NNW	422	-33	5206	-259	12	6	12	6	123	21	123	3
HARRISON	382	0			5	-9	5	-9	132	-12	132	-37
NEWARK INTL AP	351	-25	4490	-230	3	-8	3	-9	149	6	150	-22
PHILLIPSBURG EASTON	414	-37			12	5			132	26	132	15

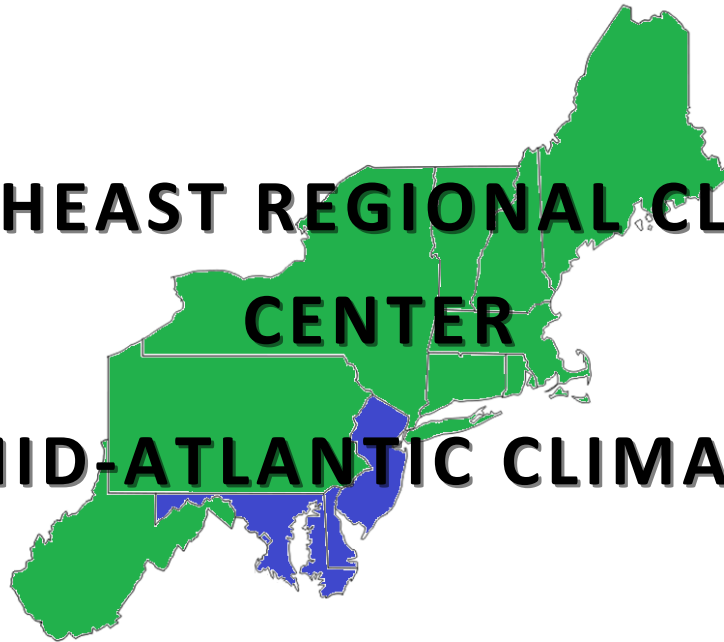
STATION	HEATING DEGREE DAYS (BASE 65)				COOLING DEGREE DAYS (BASE 65)				GROWING DEGREE DAYS (BASE 50)			
	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON
POTTERSVILLE 2 NNW	413				6				115		115	
RINGWOOD	418		5208		1		1		118		118	
SUSSEX 2 NW	482	-47			0	-4	0	-4	87	16	87	6
WAYNE	386				6		6		138		138	
TOCKS ISLAND	445		5427		5		5		105		105	
-NJ: SOUTHERN-												
ATLANTIC CITY INTL	417	10	4639	-65	15	6	15	6	124	-2	124	-35
ESTELL MANOR	388	-18	4678	-174	13	2	13	1	151	12	151	-21
FREEHOLD MARLBORO	390	-16			11	-2			141	7	141	-17
HAMMONTON 1 NE	382	-11	4677	-174	16	7	16	6	148	15	148	-17
HIGHTSTOWN 2 W	427	1			10	1	10	0	122	2	122	-24
INDIAN MILLS	355	-43	4665	-242	19	8	19	7	173	36	176	7
MILLVILLE MUNI AP	400	-12			18	10			143	20		
NEW BRUNSWICK 3 SE	393	-36	4833	-233	8	1	8	1	133	21	133	-2
SEABROOK FARMS	348				17				174		174	
SOMERDALE 4 SW	404		5145		10		10		136		136	
TRENTON MERCER CO A	388	-34	4774	-194	14	6	14	6	141	23	142	-2
PHILADELPHIA MT HOL	374				16				159		159	
-NJ: COASTAL-												
CAPE MAY 2 NW	365	-21	4135	-179	8	3	8	3	141	21	141	-4
LONG BRANCH OAKHURS	472	18			7	3			71	-18	71	-36

The heating season begins July 1 and ends June 30. The cooling season begins January 1 and ends December 31.  
The growing season begins March 1 and ends October 31. All departures are calculated from the 1981 - 2010 mean.  
These data are considered preliminary, published data from the National Climatic Data Center may differ somewhat from the values shown here.

**NORTHEAST REGIONAL CLIMATE**

**CENTER**

**MID-ATLANTIC CLIMATE**



**Northeast  
Regional  
Climate  
Center**



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