

Northeast Regional Climate Center

Mid-Atlantic Climate

CONTENTS

CLIMATE DIVISION MAPS.....	1
FEBRUARY WEATHER HIGHLIGHTS	2
DAILY AVERAGE TEMPERATURES AND THE 30-YEAR NORMAL	9
MONTHLY TEMPERATURE MAPS.....	11
MONTHLY PRECIPITATION MAPS	12
MONTHLY SNOWFALL MAPS	13
PRELIMINARY MONTHLY SUMMARIZED DATA FEBRUARY 2014	14
PRELIMINARY MONTHLY DEGREE DATA FEBRUARY 2014	16

FEBRUARY 2014

VOLUME 114 NUMBER 2

Website: <http://www.nrcc.cornell.edu>

Address: Phone: (607)255.1751

1123 Bradfield Hall Fax: (607)255.2106

Cornell University Email: nrcc@cornell.edu

Ithaca, NY 14853

NRCC Staff:

Dr. Arthur DeGaetano
Director
Mr. William Noon
Computer Analyst

Mr. Keith Eggleston
Regional Climatologist
Mrs. Jessica Spaccio
Assistant Climatologist

Mrs. Samantha Borisoff
Assistant Climatologist
Ms. Tara Fardellone
Publication Design

Mrs. Pamela Vitale
Administrative Assistant

State Climatologists:

Daniel Leathers
210 Pearson Hall
Department of Geography
Newark, DE 19716
302-831-8764

Konstantin Y. Vinnikov
Dept of Atmospheric and Oceanic Sci.
University of Maryland
College Park, MD 20742
301-405-5382

David Robinson
Department of Geography
Rutgers University
Piscataway, NJ 08854
732-445-4741

CLIMATE DIVISION MAPS



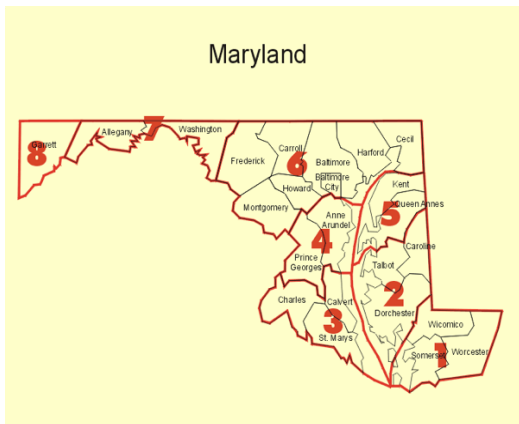
New Jersey Climate Divisions

- 1 Northern
- 2 Southern
- 3 Coastal



Delaware Climate Divisions

- 1 Northern
- 2 Southern



Maryland Climate Divisions

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

FEBRUARY WEATHER HIGHLIGHTS

Below-normal temperatures stuck around through February in the Mid-Atlantic. The region's average temperature of 31.5 degrees was 3.6 degrees colder than normal. New Jersey was the coldest state with a departure of -4.4 degrees. Delaware ended the month at 3.5 degrees below normal, while Maryland's departure was -3.1 degrees. All divisions were cooler than normal, as well. The region's highest and lowest temperatures were found in Maryland. Mechanicsville reached 71 degrees on the 22nd and Deep Creek Lake dropped to -10 degrees on the 28th.

Precipitation was plentiful during the month. The region received 4.57 inches of precipitation, 157 percent of normal, making it the wettest February since 2003 and the 14th wettest February since 1895. At 180 percent of normal, New Jersey had its 10th wettest February on record. The state's three divisions ranked the month among their top 15 wettest. Maryland received 144 percent of normal precipitation, making it the 19th wettest February on record. Three of the region's eight divisions ranked the month among their 20 wettest. Delaware wrapped up February at 142 percent of normal precipitation, with one of its two divisions ranking the month among its 10 wettest. The greatest monthly precipitation total was in Wertsville, NJ, where 6.23 inches fell. Pottersville, NJ, reported the greatest daily amount, 2.17 inches on the 14th. As for snow, Frostburg, MD, accumulated 41.9 inches during the month, while Damascus, MD, had the greatest daily total of 20.2 inches on the 13th.

At the start of February, areas of Garrett and Allegany counties in Maryland were experiencing abnormal dryness, but above-normal precipitation eased dryness by mid-month.

A winter storm moved through the region from February 4-6, dropping up to 12 inches of snow and 0.50 inches of ice. Ice, snow, and gusty winds caused downed trees and power lines. More than 150,000 customers lost power in Maryland, mainly near Baltimore, and about 18,000 customers lost power in New Jersey. Numerous roads, including Interstates 68, 70, and 81 in Maryland, were closed occasionally due to the icy conditions and accidents. Around 42% of flights at Newark Liberty Airport were cancelled on the 6th. Another storm from February 11-13 dumped up to 26 inches of snow on the region. The storm closed Washington, D.C., area airports, while the weight of the snow caused numerous roof and barn collapses. Severe thunderstorms from February 20-21 caused structural and tree damage across Maryland. The storms also spawned an EF-0 tornado there, making it only the second February tornado in the state since 1950.

Daily Low Maximum Temperature Records (°F)

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Washington Dulles, D.C.	28	28	31 in 1980

Daily Minimum Temperature Records (°F)

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Washington Dulles, D.C.	28	10	10 in 1993

Daily Low Average Temperature Records (°F)

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Washington Dulles, D.C.	28	19.0	23.5 in 1993

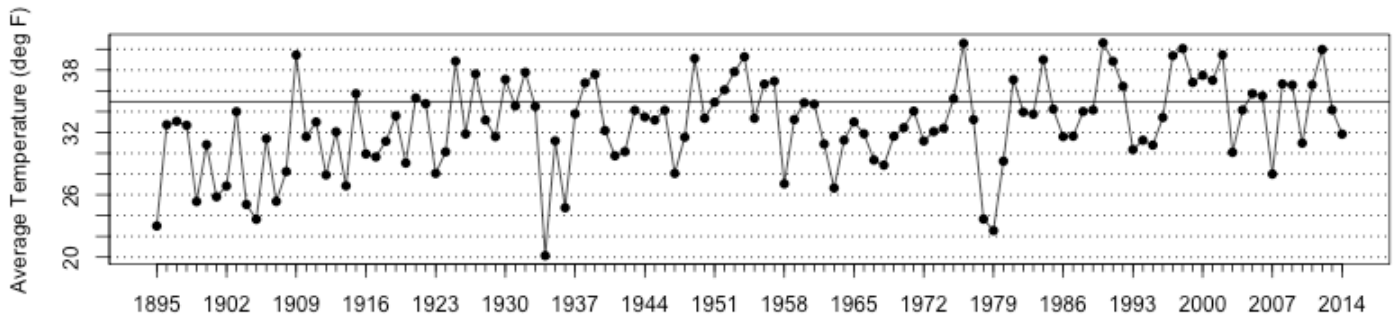
Daily Precipitation Records (inches)

Station	Date	New	Previous
Washington Dulles, DC	3	1.33	1.07 in 1982
Baltimore, MD	3	1.34	1.30 in 1939
Washington National, DC	3	1.48	1.10 in 1939
Newark, NJ	5	1.44	0.84 in 1997
Baltimore, MD	13	1.77	1.65 in 1972

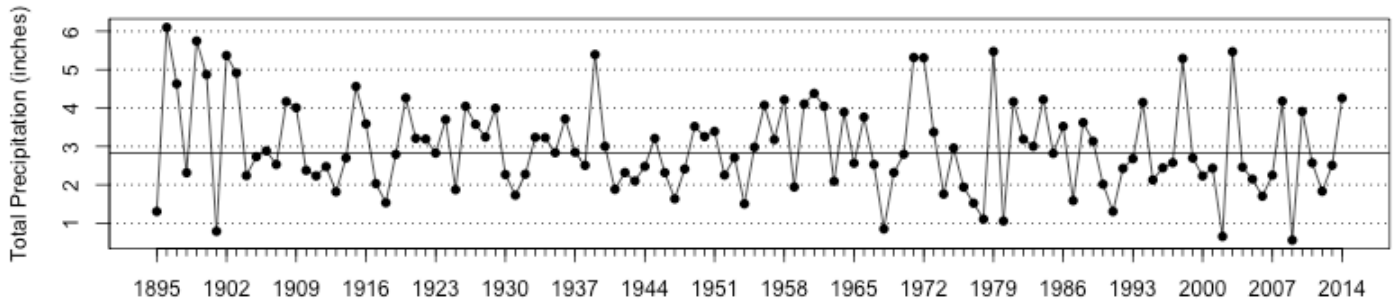
Daily Snowfall Records (inches)

Station	Date	New	Previous
Newark, NJ	3	7.7	7.4 in 1961
Newark, NJ	13	9.4	3.3 in 1950
Wilmington, DE	13	9.5	2.6 in 1978
Washington Dulles, DC	13	11.7	3.0 in 1992

Mid Atlantic Average February Temperatures



Mid Atlantic February Precipitation Totals



The 2014 values depicted on these graphs are based on preliminary data.

**Relentless Winter
February 2014 Summary
and
Winter 2013/14 Summary**

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

February Overview

One of the more disruptive winters in recent decades continued during February, erasing the hopes of many for an early spring. Averaged across New Jersey, the monthly temperature of 29.5° was 4.3° below normal. This made for the 35th coldest February over the past 120 years and the coldest since 2007. Temperatures ranged from a low of -18° at Walpack in snow covered Sussex County valley on the 11th and 12th to a high of 67° at several southern locations on the 21st. The statewide average precipitation of 5.26" made for the 20th wettest February on record. This includes both rainfall and the liquid equivalent of frozen precipitation, and is 2.40" above normal. Snowfall averaged 21.9" across the state, which is 13.9" above normal and ranks as the 7th snowiest of the past 120 Februaries.

Precipitation and storms

Morris and Hunterdon counties received the most precipitation in February. Holland Township (Hunterdon County) totaled 6.81" of rain and melted snow/sleet. Close behind was Mine Hill (Morris) with 6.80", Stockton (Hunterdon) 6.75", and Rockaway (Morris) 6.63". The least precipitation was noted in Wantage (Sussex) at 3.85", New Providence (Union) 4.27", Hawthorne (Passaic) 4.38", and Saddle Brook (Bergen) 4.43".

The aforementioned statewide snowfall average of 21.9" can be subdivided into a 31.2" average (+21.3") in the north (Warren-Morris-Essex counties northward), 28.3" (+19.5") in central NJ (Hunterdon-Mercer-Somerset-Union-Middlesex-Monmouth), and 15.6" (+9.1") in the remaining eight southern counties. The largest monthly total was 38.6" in both Holland Township (Hunterdon) and Jefferson Township (Morris). This was followed by 38.5" in Franklin Township (Hunterdon), Mine Hill (Morris) 38.3", Mendham (Morris) 37.4", and Cedar Grove (Essex) 37.0". Coastal southeast locations received much less snow, only totaling 3.7" at Egg Harbor Township (Atlantic), 4.1" in Little Egg Harbor (Ocean), 4.5" in Lacey Township (Ocean), and 5.7" at Woodbine (Cape May).

The first storm of the month began during the pre-dawn hours of the 3rd, just hours following the end of the Super Bowl game at MetLife Stadium in East Rutherford (Bergen County). Heavy, wet snow fell in the northern half of the state into the early evening, with melted equivalents as high as 1.54" in Stockton (Hunterdon), 1.51" at New Brunswick (Middlesex), and 1.50" in Franklin Township (Somerset). In the south, precipitation totals of about an inch, mainly in the form of rain, were common. Less than an inch of snow fell in south Jersey below I-195 and southeast of the NJ Turnpike. Snow increased rapidly to the north, exceeding 8.0" in most counties. Some of the larger totals in central and northeast counties included 11.0" in Lebanon (Hunterdon), 10.0" in Mine Hill, Glen Rock (Bergen) 9.8", Bedminster (Somerset) 9.5", Cheesequake (Middlesex) 9.5", Princeton (Mercer) 9.3", Cedar Grove (Essex) 9.0", and Freehold (Monmouth) 9.0".

Close on the heels of the first storm was a wetter and more chaotic storm beginning in the pre-dawn hours of the 5th and extending to early evening. Freezing rain accumulated on branches and power lines, some of which were still laden with wet snow from the storm on the 3rd. This resulted in power outages to over 100,000 customers, mainly in portions of west central NJ. Snow and sleet accumulations exceeded 5.0" north of Rt. 80, decreasing to about an inch in the Rt. 1 corridor. Little to no snow or sleet was seen south of there, while under an inch of rain fell further south. Montague (Sussex) took top snow honors with 11.4", followed by 11.0"

in neighboring Wantage. The largest precipitation totals were observed in Bridgewater (Somerset) with 1.80", Stockton (Hunterdon) 1.78", Medford Lakes (Burlington) 1.75", and Lacey Township (Ocean) 1.74".

A small storm whitened the ground across NJ with 1.0"-3.0" of snow during the late afternoon and evening of the 9th. Largest totals included 3.0" at Ringoes (Hunterdon) and Moorestown (Burlington), and 2.8" in Brick (Ocean).

The largest snowstorm of the season, at least through February, occurred from late evening on the 12th to the pre-dawn hours of the 14th. This was mainly a snow event for the northwest, while elsewhere, a mix of snow, sleet, freezing rain, and rain fell over the course of the protracted event. All of the state began with snow, however after less than 2.0" fell a turnover to rain occurred near the coast south of Toms River (Ocean). Amounts increased west and north, with 10" or more accumulating in southwestern and central counties and more than 15" in counties north of I-78. The largest totals in nine northern counties included Montague (Sussex) 22.8", Blairstown (Warren) 19.1", Jefferson and Rockaway (Morris) 17.3", Cedar Grove (Essex) 17.1", Roselle (Union) 16.7", West Milford (Passaic) 16.3", Bedminster (Somerset) 16.0", Oakland (Bergen) 15.5", and Califon (Hunterdon) 15.1". Rain and melted frozen precipitation totaled as much as 3.17" in Holland (Hunterdon) and Bernards (Somerset) townships, 3.16" in Rockaway Township (Morris), and 2.89" in Lawrence Township (Mercer). The evening hours of the 13th brought a line of thunderstorms through the state, which included heavy rain, freezing rain, and/or sleet. Later in the evening, all precipitation returned to snow, depositing a final few inches.

A period of light to moderate snow deposited a few tenths of an inch of snow to over 3.0" across the state from late morning to early evening on the 15th. Some rain fell along the coast, where melted snow and rain totals were greatest. The Monmouth County communities of Red Bank, Ocean Township, Long Branch, and Freehold measured 0.45", 0.37", 0.34", and 0.34", respectively. Meanwhile, 4.9" of snow fell in Highland Lakes (Sussex), with 3.8" in Montague (Sussex) and Cheesequake (Middlesex).

The morning of the 18th saw a 3.0"-5.0" snowfall in southwestern counties, with 1.0"-3.0" elsewhere. Larger totals included Medford (Burlington) 5.0", Pittsgrove (Salem) 4.5", Winslow Township (Camden) 4.2", and South Harrison (Gloucester) 4.0". The highest precipitation totals were at Egg Harbor Township (Atlantic) 0.52", Upper Township and Woodbine (Cape May) 0.51", and Ewing (Mercer) and Wall (Monmouth) 0.49". With milder air in place on the 19th, rain fell in most places, though it began as a dusting to an inch of snow in northwest communities. As much as 0.50" of liquid fell in Rockaway (Morris) and West Milford (Passaic), 0.49" in Wantage (Sussex), and 0.45" in Berlin (Camden).

During the daylight hours of the 21st a warm front struggled to move north through the southern half of the state. Behind it, temperatures soared into the 60's, while further north over snow covered central and northern NJ a dense fog set in and temperatures only made it to the low 40's. Meanwhile a cold front was barreling down from the west. This all resulted in a strange mix of tornado and severe thunderstorm watches, and a dense fog advisory north of the front. Several central NJ counties were under all three while visibility was less than a quarter of a mile in fog and upwards of a foot of snow covered the ground. A squall line, replete with strong thunderstorms, crossed NJ during the late afternoon, dropping 0.67" of rain at Mine Hill (Morris), 0.60" in Rockaway Township (Morris), and 0.59" in Califon (Hunterdon).

A dusting up to 2.0" of snow in Randolph Township (Morris) on the morning of the 26th marked the end of a stormy month.

A rather remarkable swing in barometric pressure occurred from the 12th into the first portion of the 14th. Monthly high readings close to 30.60" were first observed, followed by February minimum values between 29.00" and 29.05" late in the interval.

As a mark of February's tumultuous meteorological behavior, at one or more locations winds gusted to at least 40 mph on 11 days. This began with a 40 mph gust at Wantage (Sussex) on the 6th, but it was not until mid month that the air began to flow rapidly across the state. The storm on the 13th, in the midst of the pressure plunge, brought 53 mph and 50 mph gusts to Harvey Cedars (Ocean) and Sea Girt (Monmouth), respectively. Eight other NJWxNet stations recorded gusts between 40 mph and 49 mph. The

14th brought a gust of 51 mph to Harvey Cedars, with six stations gusting between 41 mph and 44 mph. The high wind action next turned to the northwest hills where on the 15th High Point Monument (Sussex) gusted to 52 mph. The Monument station gusted to 50 mph on the 16th, when Wantage (Sussex) reached 45 mph. A day later, gusts at these two locations reached 46 mph and 44 mph, respectively. A 40 mph gust was observed at Seaside Heights (Ocean) on the 18th, with High Point Monument reaching 40 mph on the 19th and 20th. Cream Ridge (Monmouth) received a 47 mph gust during a thunderstorm on the 21st. The nine-day string of plus 40 mph gusts came to an end, however the Monument got back to a 41 mph gust on the 24th and reached 44 mph on the 27th, when Harvey Cedars, Woodbine (Cape May), and Seaside Heights made it to 42 mph, 40 mph and 40 mph, respectively.

Given the frequent and at times heavy nature of January and then February's snows, the ground remained snow covered across the northern half of NJ throughout the month. This marked only the 5th February in over a century that the National Weather Service Cooperative Station in New Brunswick (Middlesex) had an inch or more snow cover each day, and the first since 1978. At month's end, snow cover ranged from 12"-15" deep in higher elevations of north Jersey to 6" within southern Hunterdon and Somerset and northern Middlesex counties. Within 20 miles to the south of this zone the cover quickly tapered off to just traces remaining on the ground.

As February ended, the liquid equivalent of the pack ranged from approximately 2.00" where a 6.0" snow cover was found to more than 4.00" where the depth exceeded 12.0". Concerns remained for potential flooding should the snow melt rapidly in March, particularly if accompanied by rain. The warm temperatures on the 22nd and 23rd reduced the snow pack in central NJ by over an inch of liquid equivalent and brought the Millstone River at Griggstown (Somerset) to minor flood stage. While not reducing the snow water equivalent as much further north, this melt episode removed enough snow from rooftops to lessen the threat of collapses. Structural failures, or concerns of such, prompted evacuations and temporary closures of scattered schools and commercial establishments, mainly those with flat roofs. Fortunately, most collapses were in abandoned structures and there were no reports of injuries.

Temperature

While below-average temperatures prevailed for much of the month, thermometers took several roller coaster rides. The first actually began on the last day of January as NJ climbed out of a very cold week. By the 1st, the 50° mark was reached at Red Lion (Burlington), Greenwich (Cumberland), and Cherry Hill (Camden). This mild air arrived in time for the Superbowl on the 2nd. On game day, Egg Harbor Township (Atlantic) and Oswego Lake (Burlington) topped out at 60°, 38 (of 54) NJWxNet stations reached 50°-59°, and the 16 remaining stations got to 43°-49°. The 6:30 PM kickoff temperature at the Lyndhurst (Bergen) NJWxNet station, within a few miles of the stadium, was 47°, with a 1 mph wind blowing out of the NNW. By game's end the temperature was 42°. The wind at Lyndhurst never gusted higher than 14 mph during the game.

Following the 2nd, the temperature did not return to the 50° mark until the 18th, when Cape May Courthouse (Cape May) hit 53° and Woodbine (Cape May) 52°. High Point Monument only struggled to 30° on the 18th. The 19th saw West Cape May reach 59° and Cape May Courthouse 57°. Five stations topped out at 56° on the 20th. Before the aforementioned squall line crossed NJ on the 21st, Red Lion, Sewell (Gloucester), and Cherry Hill soared to 67°. Another 17 south Jersey stations made it into the 60°s and 14 into the 50°s. Meanwhile Hope (Warren) and Walpack (Sussex) only got to 40°. Toms River (Ocean) and Greenwich reached 61° on the 22nd. The last day of the mild spell on the 23rd saw Woodbine and Oswego Lake top out at 65°, twelve other stations in the 60°s, thirty-two in the 50°s, and High Point Monument the cool spot at 46°.

On eleven February days the temperature fell below zero at one or more NJ locations. Walpack (Sussex) was one of the stations on ten occasions. The 4th was the first subzero day, with Walpack and Pequest (Warren) both at -1°. Walpack fell to -4° on the 7th, with Pequest next coldest at 6°. This pattern continued the next two days with Walpack at -5° and -4° and Pequest at 3° and 5°, respectively. The 10th brought a -2° minimum to Kingwood (Hunterdon), with Walpack and Pequest at 1°. The coldest temperatures of the month occurred on the 11th and 12th when Walpack twice plummeted to -18°. Pequest and Kingwood reached -8° on the 11th

and Pequest that same reading on the 12th. Four other stations were below zero on the 11th and eight others on the 12th. Meanwhile in the south, West Cape May only dropped to 20° on the 11th and Harvey Cedars to 15° on the 12th.

The 17th next saw Walpack drop below zero, reaching -3°, while Pequest was 4°. The last three days of the month brought a return to subzero conditions, with Walpack -3° and Kingwood 1° on the 26th, Walpack -6° and Kingwood -5° on the 27th, and Walpack -10° and High Point Monument -3° on the 28th. West Cape May at 13° experienced their coldest minimum of February on the 28th, yet it was the highest minimum in NJ.

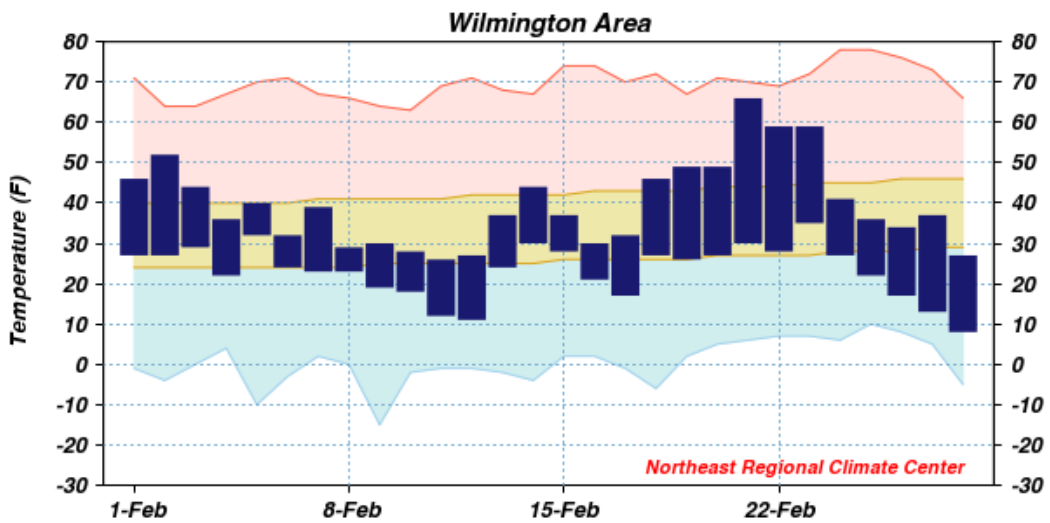
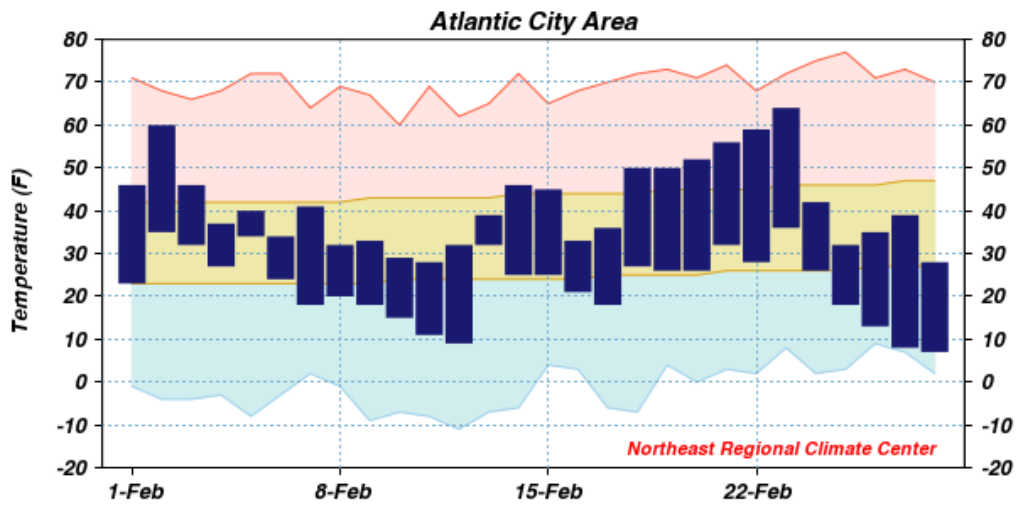
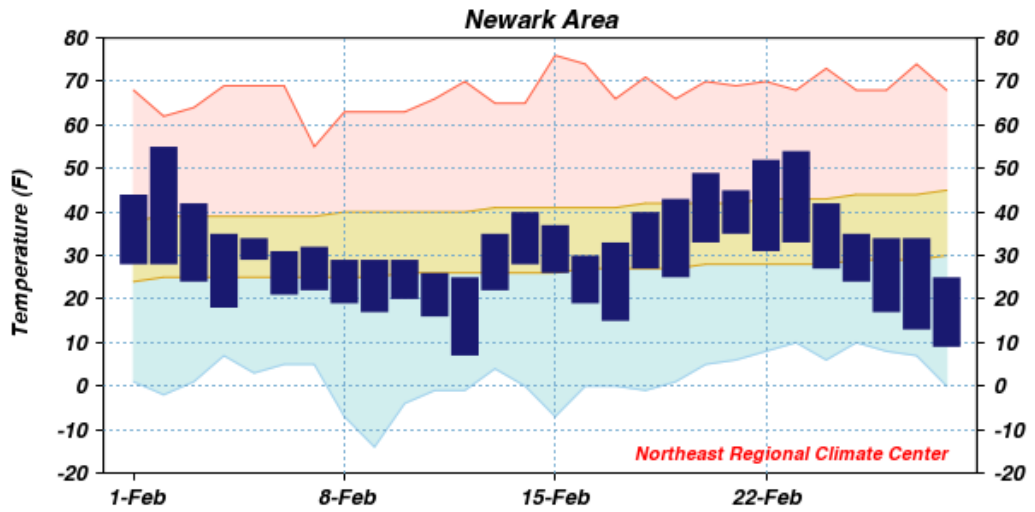
Winter Overview

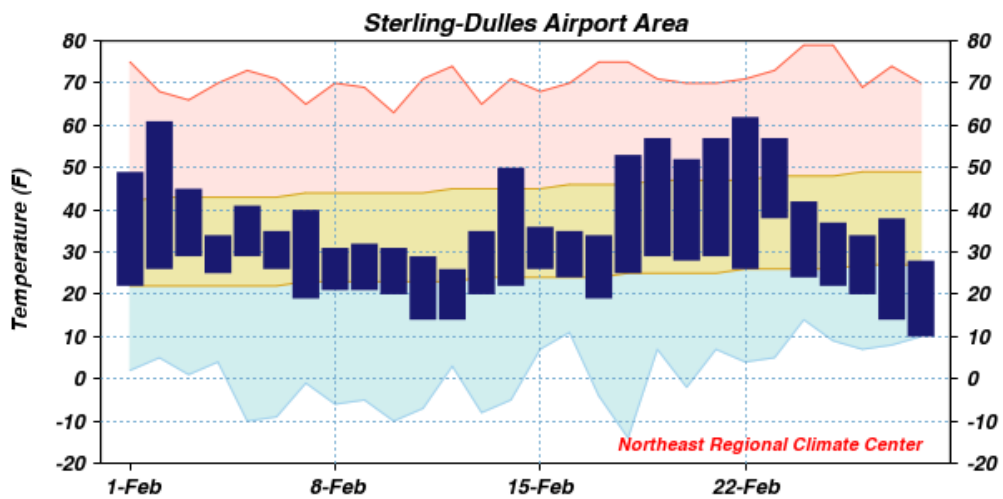
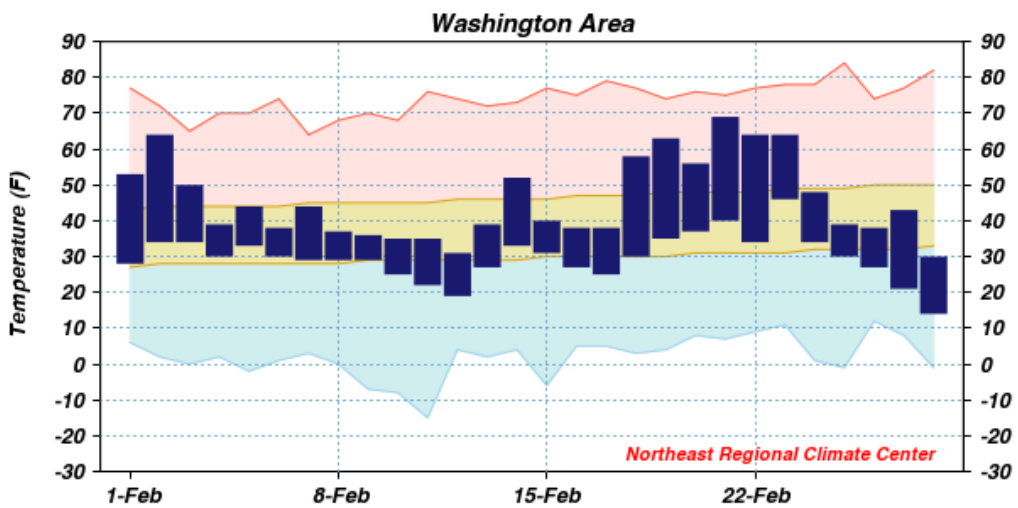
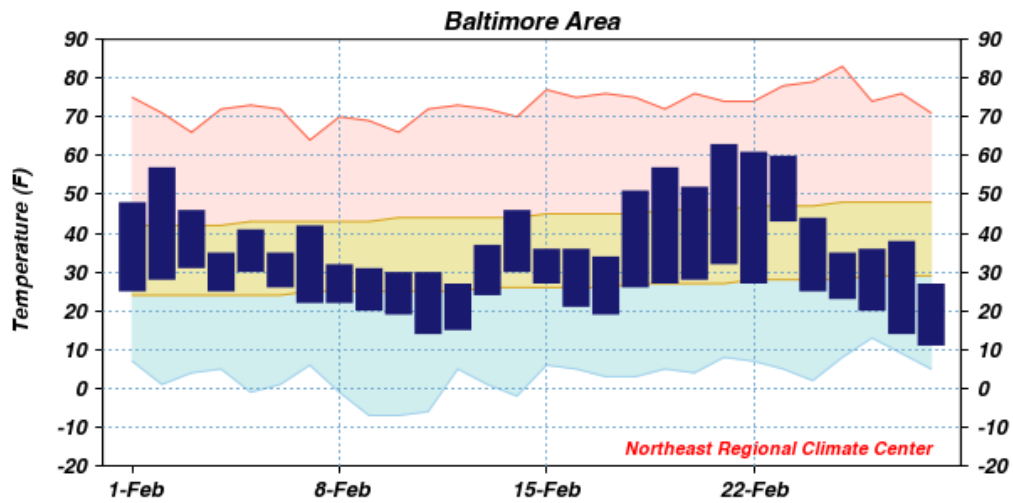
The 2013/14 winter (December through February) will go down as one of the more disruptive in New Jersey over the past several decades. It remains to be seen what the final snow tally for the entire snow season will be, however the 48.4" season-to-date statewide average snowfall through February ranked 6th greatest of the past 120 winters. Should not another flake fly in March (this is already not the case, following the March 3 south Jersey storm) this snow season would rank 9th greatest on record.

With all of the snow also came some rain storms. When all of the rain and melted snow is added up and averaged for the state the December-February total is 13.31". This is 3.06" above the 1981-2010 normal and ranks as the 15th wettest winter on record. The top place is held by 1978/79 with 19.32", with 2009/10, the most recent wetter winter, in third place with 16.56".

The statewide average winter temperature was 30.7°. This is 2.8° below normal and ranks as the 34th coolest of the past 120 winters dating back to 1894/95. This ranking is likely surprising to many, the common belief being that this was one of the coldest winters on record. Clearly this is not the case, however there is some validity to people's assumption. It was New Jersey's third coldest winter since 1982. Only 1993/94 was colder at 29.0° (ranking 13th) and 2002/03 at 29.6° (ranking 21st). For those with longer memories, the following winters in the 1960s, 1970s and early 1980s were also were colder than the most recent one: 1961/62, 1962/63, 1968/69, 1969/70, 1976/77, 1977/78, 1978/79, 1980/81, and 1981/82. None, however, match the coldest NJ winter on record, which was 24.4° in 1917/18.

DAILY AVERAGE TEMPERATURES AND THE 30-YEAR NORMAL





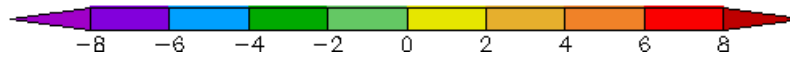
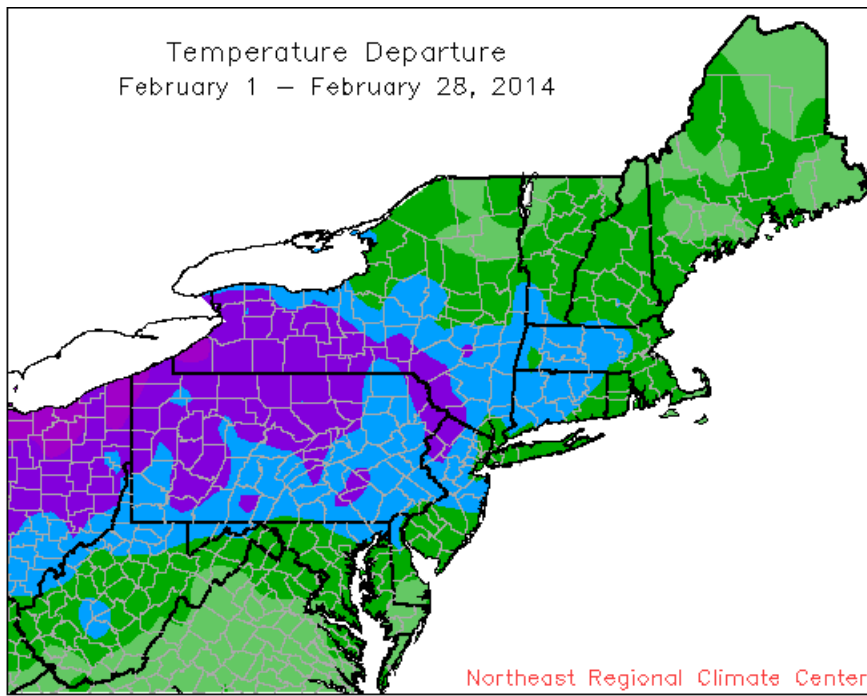
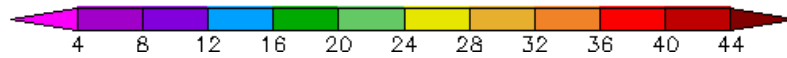
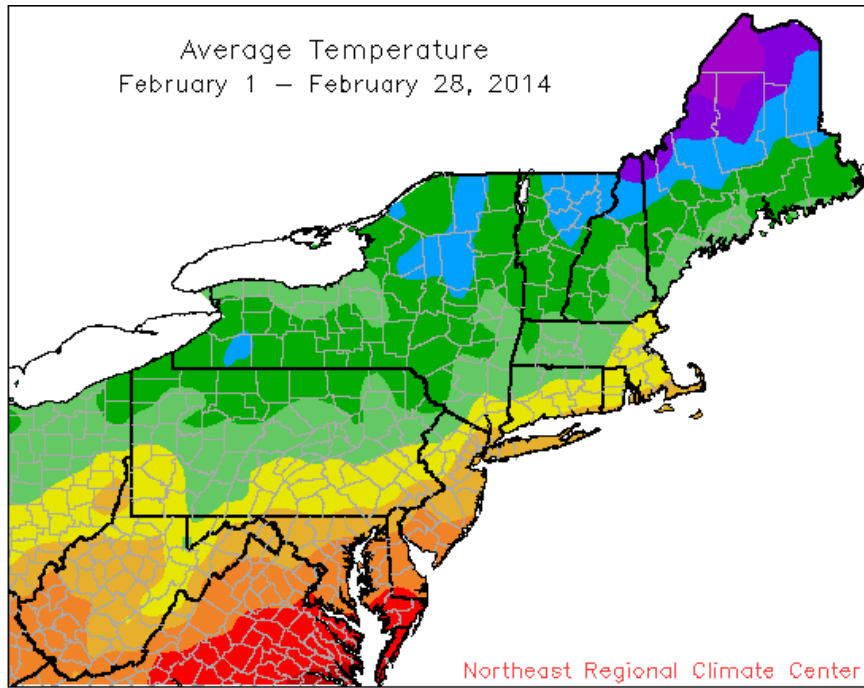
Observed daily maximum and minimum temperatures are connected by dark blue bars.

Area between normal max and min temperatures has tan shading.

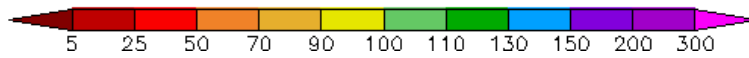
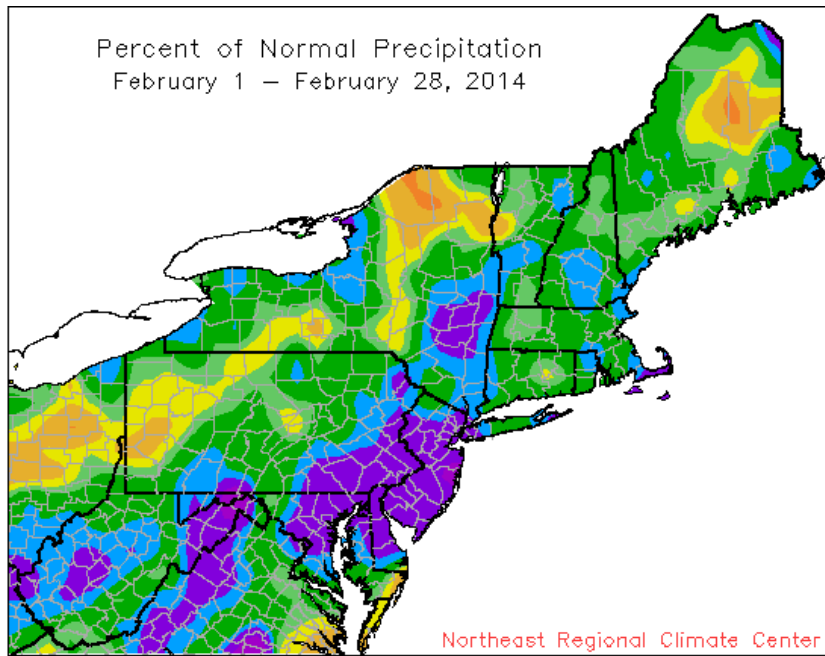
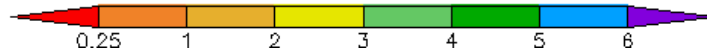
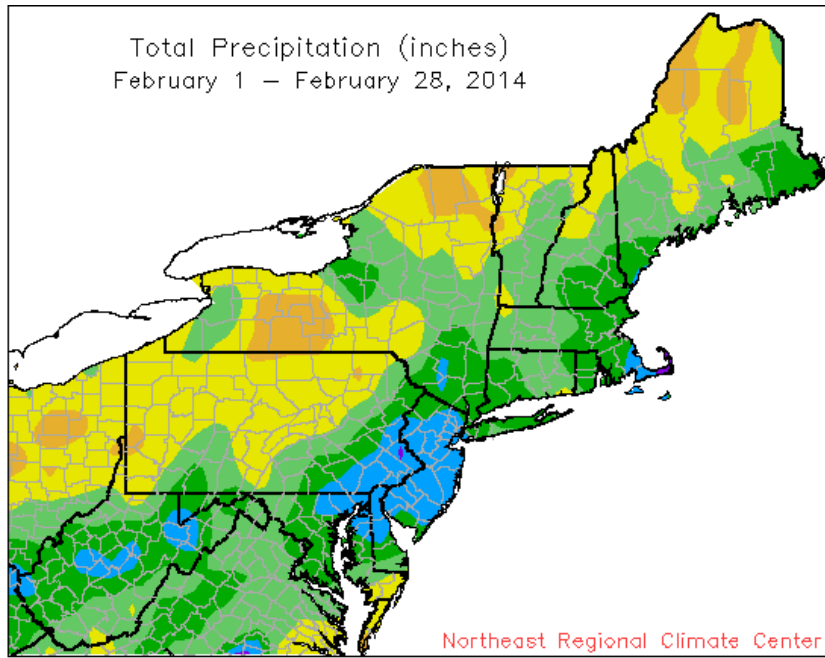
Red line connects record high temperatures.

Light blue line connects record low temperatures.

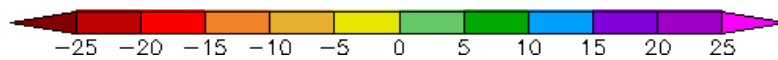
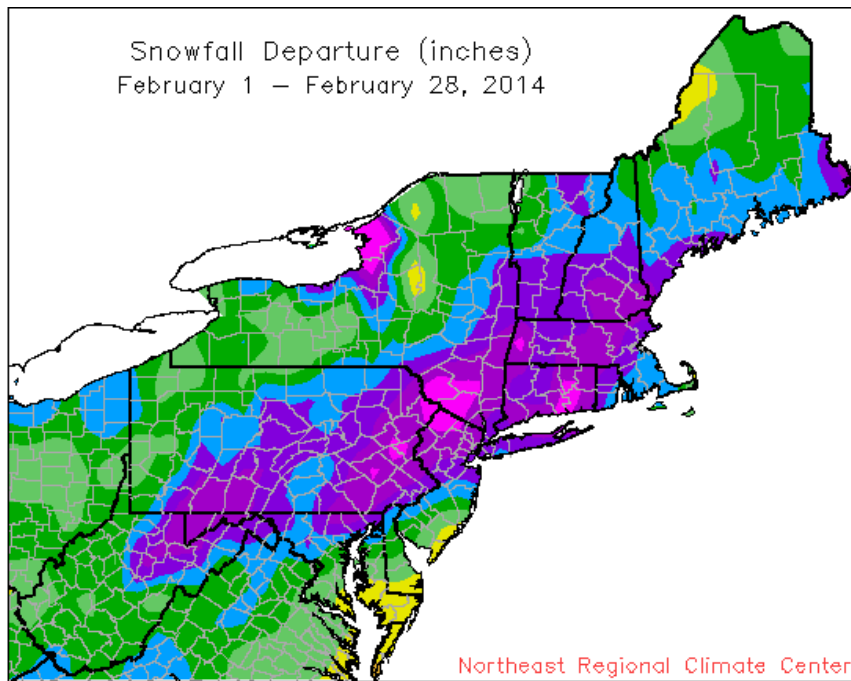
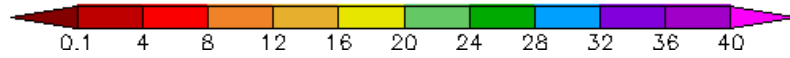
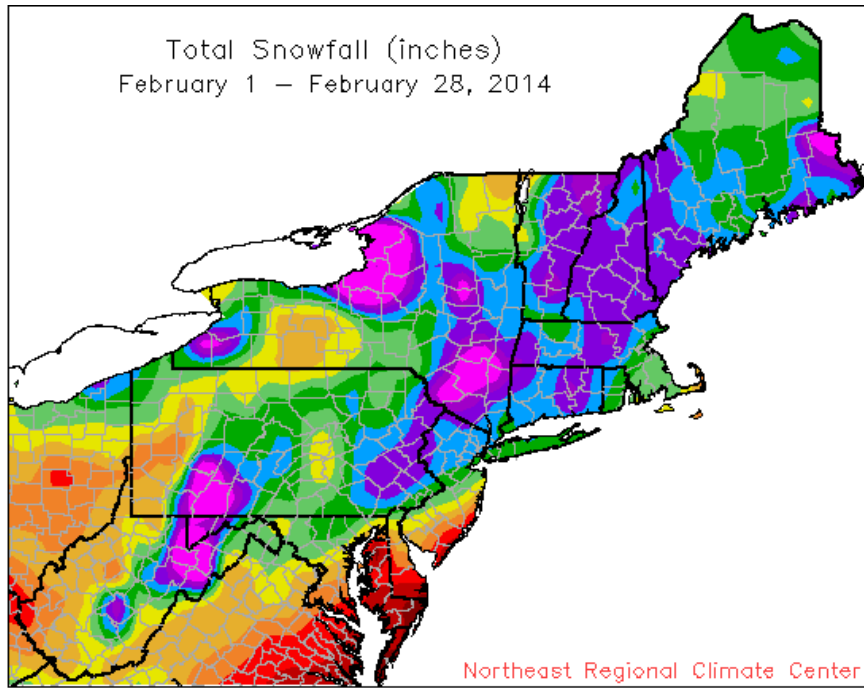
MONTHLY TEMPERATURE MAPS



MONTHLY PRECIPITATION MAPS



MONTHLY SNOWFALL MAPS



PRELIMINARY MONTHLY SUMMARIZED DATA FEBRUARY 2014

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	50+ MAX	32- MIN	32- MIN	0- MIN	MON TOT	DEPRT TOT	DAYS 0.1+	DLY MAX	DAY MAX	MON TOT	DLY MAX	
-DE: NORTHERN-																				
WILMINGTON NEW CAS	39.7	23.1	31.4		66	21	8	28	4	9	27	0	5.35		9	1.50	13	19.0	9.5	13
WILMNGTON PORTER R	38.2	21.9	30.1		60	21	7	28	4	9	26	0	5.21		9	1.38	5	18.0	8.0	13
-DIVISION-			30.8	-4.2									5.28	2.49				18.5		
-DE: SOUTHERN-																				
DOVER	42.7	25.4	34.0		68	21	10	28	7	4	23	0								
-DIVISION-			34.0	-3.2									3.93	0.90						
-STATE-			33.3	-3.5									4.23	1.25				4.1		
-MD: SOUTHEASTERN-																				
SNOW HILL 4 N *	48.6	26.0	37.0		68	19	13	28	12	0			3.28		5	1.60	13			
SALISBURY 2N *	47.8	25.8	36.7		70	21	7	27+					3.89		8	1.27	13			
-DIVISION-			36.9	-1.7									3.59	0.38						
-MD: CENTRAL EAST-																				
ROYAL OAK 2 SSW	44.8	26.2	35.5		65	21	13	28	11	2	24	0	4.27		10	1.20	3	5.9	1.5	13
-DIVISION-			35.5	-2.4									4.27	1.18				5.9		
-MD: LOWER SOUTHE-																				
MECHANICSVILLE 5 N	44.2	24.8	34.5		71	22	13	28	8	3	26	0	4.04		10	1.10	13			
ST INGOES WEBSTER	44.5	29.0	36.7		69	21	17	28	10	3	21	0	3.63		7	1.29	13	NM		
-DIVISION-			35.6	-1.9									3.84	0.87						
-MD: UPPER SOUTHE-																				
BALTIMORE WASH INT	41.7	24.1	32.9		63	21	11	28	7	6	27	0	4.58		5	1.77	13	14.2	9.6	13
BELTSVILLE	42.7	24.3	33.5		68	22	11	28	9	3	27	0	3.87		6	0.88	3	14.2	9.0	13
LAUREL 3 W	42.6	25.8	34.2		67	22+	8	28	8	5	23	0	4.78		5	2.00	13			
MD SCI CTR BALTIMO	42.0	28.5	35.2		62	22	13	28	7	4	20	0								
OXON HILL	44.9	25.6	35.2		68	22	12	28	9	2	24	0	4.52		8	1.20	13	13.2	7.0	13
UPPER MARLBORO 3 N	44.6	23.2	33.9		69	22	10	28	10	2	27	0	4.17		6	1.09	13			
-DIVISION-			34.1	-3.0									4.38	1.55				13.9		
-MD: NORTHEASTERN-																				
STEVENSVILLE	40.1	26.6	33.3		63	22	14	28	7	8	24	0	3.69		10	0.88	4	13.0	6.5	13
-DIVISION-			33.3	-2.9									3.69	0.77				13		
-MD: NORTHERN CEN-																				
ABERDEEN PHILLIPS	40.4	23.9	32.1		59	22	9	28	5	5	27	0								
BRIGHTON DAM *	40.4	22.0	31.2		58	23	8	28+	4	72			4.72		10	1.80	13	19.0	15.0	13
CONOWINGO DAM	37.4	20.9	29.2		56	23	8	13	2	9	28	0	3.77		11	1.02	5			
CYLBURN	40.8	24.4	32.6		59	23	8	28	7	4	23	0								
DAMASCUS 3 SSW	37.9	23.8	30.9		56	2	5	28	6	13	24	0	5.21		7	2.09	13	28.3	20.2	13
EMMITSBURG 2 SE	39.5	20.1	29.8		55	23+	1	13	6	9	27	0	3.48		6	1.25	14			
MILLERS 4 NE	37.5	20.7	29.1		56	2	1	12	6	11	24	0	6.17		7	1.59	5	35.9	16.5	13
-DIVISION-			30.7	-3.8									4.67	1.80				27.7		
-MD: APPALACHIAN -																				
CUMBERLAND 2	40.6	20.7	30.6		59	23	2	12	7	7	27	0	3.53		8	0.95	5			
FROSTBURG 2	33.2	15.5	24.3		50	20	-7	28	1	15	28	3	3.68		7	0.91	5	41.9	12.2	14
WILLIAMSPORT *	39.4	22.7	31.0		57	23	6	28												
-DIVISION-			28.6	-4.2									3.61	0.96				41.9		
-MD: ALLEGHENY PL-																				
SAVAGE RIVER DAM	35.1	16.4	25.7		51	24	-5	13+	3	15	28	3	4.70		9	1.17	5			
SINES DEEP CREEK	33.2	13.0	23.1		50	2	-10	28	1	16	28	4	4.92		14	0.95	5			
KITZMILLER 1 W	37.0	18.4	27.7		54	24+	-1	13+	5	13	28	2								
-DIVISION-			25.5	-4.1									4.81	1.87				NM		
-STATE-			32.5	-3.1									4.23	1.29				16		
-NJ: NORTHERN-																				
BELVIDERE BRG *	33.8	10.2	22.0		50	23	-6	12					4.35		9	1.35	14	27.7	6.0	14+
BOUND BROOK 2 W													4.83		10	1.43	5			

STATION	TEMPERATURE (F)									PRECIPITATION (INCHES)													
	MONTHLY AVERAGES				EXTREMES		NUMBER OF DAYS				MONTHLY TOTALS			EXTREMES		SNOWFALL							
	AVG	AVG	MON	DEPRT	MON	DAY	MON	DAY	MAX	MIN	50+	32-	32-	0-	MON	DEPRT	DAYS	DLY	DAY	MON	DLY	DAY	
MAX	MIN	AVG		MAX	MIN									TOT		0.1+	MAX		TOT	MAX			
CANOE BROOK *	37.2	16.8	27.0		54	22	1	13+															
CRANFORD	38.7	23.6	31.1		55	23+	12	11	4	9	21	0		5.40		10	1.50	5	31.3	10.0	13		
FLEMINGTON 5 NNW	35.4	15.8	25.6		54	23	-3	10	4	13	28	3		5.56		11	1.24	5					
HARRISON	37.5	22.6	30.0		57	24	8	28	4	9	24	0		4.89		10	1.62	14	31.9	13.3	14		
LAMBERTVILLE														5.73		11	1.52	5	NM				
NEWARK INTL AP	37.1	22.6	29.9		55	2	7	12	3	9	25	0		4.94		8	1.44	5	30.3	9.4	13		
POTTERSVILLE 2 NNW	35.4	19.3	27.4		48	24+	6	13+	0	10	28	0		6.02		10	2.17	14	29.9	11.1	14		
SUSSEX 2 NW	32.6	10.9	21.8		49	24+	-7	12	0	17	28	5		3.85		9	1.22	14	35.0	12.5	14		
WAYNE	36.3	18.3	27.3		53	3	4	27+	3	12	28	0		4.54		10	1.49	14	NM				
WERTSVILLE 4 NE	35.3	18.4	26.8		52	24+	2	12	3	14	27	0		6.23		12	1.74	14					
TOCKS ISLAND	34.9	12.6	23.7		53	23	-5	13+	3	12	28	3							NM				
-DIVISION-			26.6	-5.2										5.09	2.20				31				
-NJ: SOUTHERN-																							
ATLANTIC CITY INTL	41.6	22.6	32.1		64	23	7	28	7	6	25	0		5.30		7	1.89	13	6.1	1.5	9		
ESTELL MANOR	42.8	22.2	32.5		66	22	7	28	7	4	25	0		5.90		11	1.26	13					
FREEHOLD MARLBORO	40.6	19.8	30.2		58	24	4	28	5	4	26	0		5.24		10	1.34	14					
HIGHTSTOWN 2 W	38.6	17.7	28.2		57	22	1	12	4	6	28	0		5.09		11	1.22	14	26.1	8.4	4		
INDIAN MILLS	40.7	21.5	31.1		66	21	4	12+	7	8	26	0		5.73		9	1.54	5	19.5	9.0	13		
MILLVILLE MUNI AP	41.1	21.5	31.3		62	23+	8	12	6	6	27	0		4.22		7	1.23	3	NM				
NEW BRUNSWICK 3 SE	39.0	19.0	29.0		58	24	2	12	4	6	27	0		5.19		11	1.15	14	26.7	5.9	13		
SEABROOK FARMS	41.6	24.8	33.2		64	22	10	28	6	6	24	0		4.93		9	1.31	13					
SOMERDALE 4 SW	42.3	23.4	32.8		66	22	9	27	6	3	25	0		5.93		11	1.37	13					
TRENTON MERCER CO	36.8	21.1	28.9		54	22+	3	12	4	13	27	0		4.39		7	1.30	5	NM				
PHILADELPHIA MT HO	39.0	21.6	30.3		64	22	7	12	5	9	27	0		5.58		11	1.49	14	23.7	6.5	14		
-DIVISION-			30.9	-4.0										5.23	2.39				20.4				
-NJ: COASTAL-																							
ATLANTIC CITY	40.4	28.4	34.4		58	24	13	28	4	7	20	0		4.57		8	1.27	14	NM				
CAPE MAY 2 NW	42.3	26.6	34.4		60	23	12	28	7	4	22	0		4.07		7	1.14	13	5.3	1.3	12		
LONG BRANCH OAKHUR	38.3	22.4	30.3		59	22+	8	27	4	7	25	0		6.06		11	1.60	13					
-DIVISION-			33.0	-3.1										4.90	2.01				5.3				
-STATE-			29.5	-4.4										5.15	2.29				23.2				

*= 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.

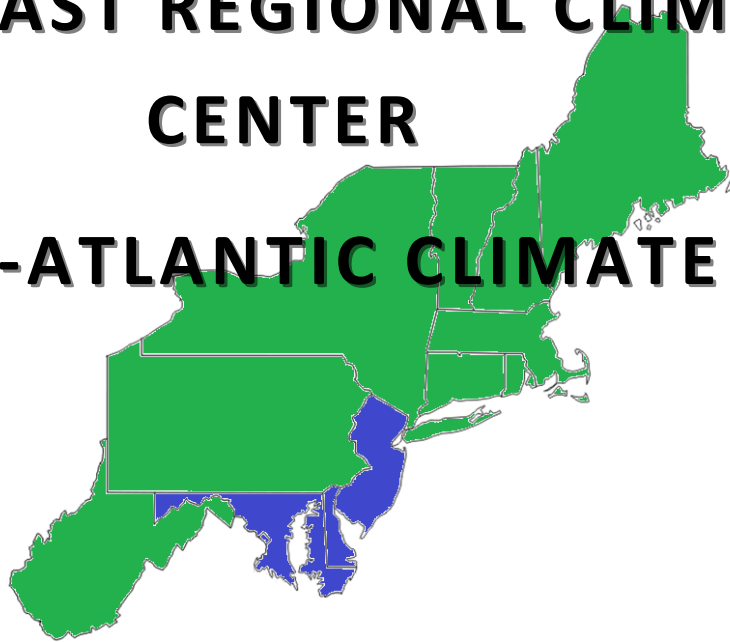
PRELIMINARY MONTHLY DEGREE DATA FEBRUARY 2014

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	934		3855		0		0					
WILMINGTON PORTER RS	970				0							
-DE: SOUTHERN-												
DOVER	860				0							
-MD: SOUTHEASTERN SHORE-												
-MD: SOUTHEASTERN SHORE-												
-MD: CENTRAL EASTERN SHORE-												
ROYAL OAK 2 SSW	819		3425		0		0					
-MD: LOWER SOUTHERN-												
MECHANICSVILLE 5 NE	849		3776		0		0					
ST INIGOES WEBSTER	785				0		0					
-MD: UPPER SOUTHERN-												
BALTIMORE WASH INTL	892		3757		0		0					
BELTSVILLE	878				0		0					
LAUREL 3 W	858		3636		0		0					
MD SCI CTR BALTIMOR	826				0							
OXON HILL	827		3561		0		0					
UPPER MARLBORO 3 NN	866				0		0					
-MD: NORTHEASTERN SHORE-												
STEVENSVILLE	880		3594		0		0					
-MD: NORTHERN CENTRAL-												
ABERDEEN PHILLIPS F	914		3857		0		0					
CONOWINGO DAM	998		4306		0		0					
CYLBURN	901				0							
DAMASCUS 3 SSW	946				0		0					
EMMITSBURG 2 SE	979				0		0					
MILLERS 4 NE	999		4247		0		0					
-MD: APPALACHIAN MOUNTAIN-												
CUMBERLAND 2	956		4160		0		0					
FROSTBURG 2	1132				0		0					
-MD: ALLEGHENY PLATEAU-												
SAVAGE RIVER DAM	1091				0							
SINES DEEP CREEK	1166				0							
KITZMILLER 1 W	1035		4692		0		0					
-NJ: NORTHERN-												
CRANFORD	942		3854		0		0					
FLEMINGTON 5 NNW	1097				0		0					
HARRISON	971		3936		0		0					
NEWARK INTL AP	977		3875		0		0					
POTTERSVILLE 2 NNW	1048		4392		0		0					
SUSSEX 2 NW	1204				0							
WAYNE	1052				0		0					
WERTSVILLE 4 NE	1062				0		0					
TOCKS ISLAND	1149		4772		0		0					
-NJ: SOUTHERN-												
ATLANTIC CITY INTL	915		3860		0		0					
ESTELL MANOR	904		3872		0		0					
FREEHOLD MARLBORO	967				0		0					
HIGHTSTOWN 2 W	1024				0		0					
INDIAN MILLS	944		3994		0		0					
MILLVILLE MUNI AP	939				0		0					
NEW BRUNSWICK 3 SE	1001		4091		0		0					
SEABROOK FARMS	884		3690		0		0					
SOMERDALE 4 SW	894		3917		0		0					
TRENTON MERCER CO A	1001		4086		0		0					
PHILADELPHIA MT HOL	965		3996		0		0					

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
-NJ: COASTAL-												
ATLANTIC CITY	850		3347		0		0					
CAPE MAY 2 NW	849		3433		0		0					
LONG BRANCH OAKHURS	965				0							

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**

1123 Bradfield Hall
Cornell University
Ithaca, NY 14853-1901

