

# Northeast Regional Climate Center

## Mid-Atlantic Climate

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## NOVEMBER 2011

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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 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

## NOVEMBER WEATHER HIGHLIGHTS

November's temperatures averaged 49.6 degrees, which was 3.4 degrees above normal and 3.8 degrees warmer than November 2010. It was the Mid-Atlantic's 10<sup>th</sup> consecutive warmer-than-normal month and the 10<sup>th</sup> warmest November since 1895. Each of the states in the region was warmer than normal. Departures were +3.3 degrees in Delaware and +3.4 degrees in Maryland and New Jersey. It was the 7<sup>th</sup> warmest November in 117 years in New Jersey and the 8<sup>th</sup> warmest in Delaware and Maryland. The warmest reading this month, 79 degrees, occurred on the 15<sup>th</sup> at Cumberland, MD. Oakland, MD reported the coolest temperature in the region, 21 degrees, on the 18<sup>th</sup>.

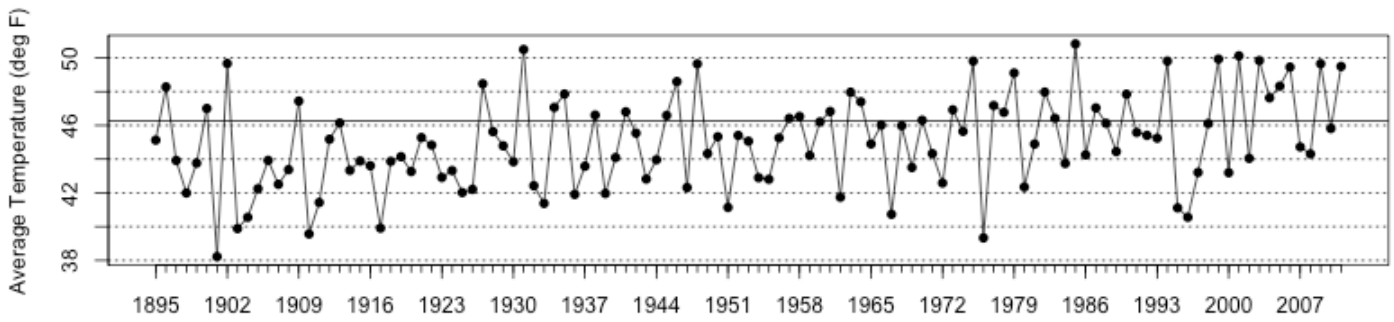
Precipitation in the Mid-Atlantic region averaged 3.67 inches. This was 103% of normal, 1.38 inches more than what fell in November 2010, and it was the wettest November since 2008. State departures were all above normal, with 101% of normal in Delaware, 102% in Maryland, and 106% in New Jersey. Millers, MD (Northern Central division) was the wettest location, with a monthly total of 5.23 inches.

### Temperature Records (degrees F)

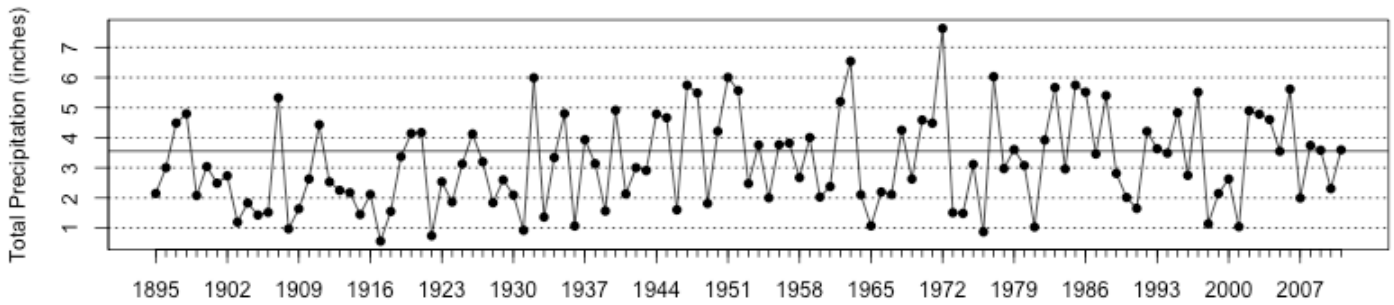
#### Maximum Temp

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Atlantic City, NJ	8	72	72 in 2009
Atlantic City, NJ	26	71	70 in 1987
Newark, NJ	26	68	68 in 1979
Dulles AP	27	70	68 in 1976
Atlantic City, NJ	28	69	69 in 2001
Newark, NJ	28	72	72 in 1973

**Mid Atlantic Average November Temperatures**



**Mid Atlantic November Precipitation Totals**



The 2011 values depicted on these graphs are based on preliminary data.

## A Tranquil Respite: November 2011 and Fall 2011 Summary

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November 2011 was one of the more tranquil months of this past dramatic weather year across New Jersey. In fact, it was rather quiet for most any November in terms of temperature and precipitation. Temperatures were on the mild side, with the statewide average of 48.9° ranking as the 10<sup>th</sup> warmest of the past 117 years (Table 1). This is 3.3° above the 1981-2010 average. NJ's mean temperature has been above average for eighteen of the past 21 months. A remarkable twelve of the eighteen rank in the top ten going back to 1895.

Rank	Year	Nov. Temp.
1	2006	49.9°
2	1975	49.6°
2	2009	49.6°
4	1931	49.5°
5	1948	49.3°
6	1994	49.2°
6	2001	49.2°
8	1985	49.0°
8	1999	49.0°
<b>10</b>	<b>2011</b>	<b>48.9°</b>
11	1902	48.7°
11	2003	48.7°
13	1979	48.6°
14	1963	48.1°
15	1946	47.9°

Table 1. The fifteen warmest Novembers across New Jersey since 1895.

More so than daily low temperatures, it was the maximums that were unusually mild. For instance, New Brunswick's (Middlesex County) mean maximum for the month was 7.3° above average while the minimum departure was only +1.4°. The afternoon warmth was reflected in at least one location in the state reaching 70° or higher on eight days and highs in the 60°s on twelve others. The 8<sup>th</sup> was the warmest day, with Basking Ridge (Somerset) and New Brunswick both reaching 75° and 33 of the 47 NJ Weather and Climate Network stations reaching 70° or higher. The coolest location was Bivalve (Cumberland) at 60°.

New Brunswick hit 70° on the 9<sup>th</sup> and 71° was achieved at Hawthorne (Passaic), Haworth (Bergen), and New Brunswick on the 10<sup>th</sup>. Warmth returned on the 14<sup>th</sup> with 75° in Howell (Monmouth), 74° at Sicklerville (Camden), and Point Pleasant (Ocean) topping off at 71° on the 15<sup>th</sup>. The last week of November saw Sicklerville reach 71° on the 26<sup>th</sup>, Hillsborough (Somerset) and New Brunswick at 74° on the 28<sup>th</sup>, and 70° achieved at Upper Deerfield (Cumberland), Woodstown (Salem), and New Brunswick on the 29<sup>th</sup>.

While one or more locations fell below freezing on 24 days, November ended without Seaside Heights (Ocean), Harvey Cedars (Ocean), or Atlantic City (Atlantic) having yet fallen to the freezing mark this season. As usual, the valley station at Walpack (Sussex) was quite often the cold spot in the state, but even for this location, achieving this rank on 22 days this past month was unusual. This was the only station that dipped into the teens in November, reaching 19° on the 5<sup>th</sup> and 13° on the 6<sup>th</sup>. Pequest (Warren), another valley location in the northwest, was second coldest on both mornings, some 3 degrees milder on the 5<sup>th</sup>, but a notable 8 degrees higher on the 6<sup>th</sup>. There were eleven other mornings when Walpack had a low from 20°-25° (November 1-2, 7, 12-13, 18-19, and 24-27). Other stations shared this range on four of these days, including Pequest at 25° on the 2<sup>nd</sup> and 7<sup>th</sup> and 23° on the 18<sup>th</sup>, and Berkeley Township (Ocean), a traditionally cold Pinelands station, at 23° on the 18<sup>th</sup> and 20° on the 19<sup>th</sup>. Statewide, the 19<sup>th</sup> was the coldest morning of the month, with twelve stations bottoming out between 20°-25° and only six remaining above freezing.

Precipitation wise, November was close to average. At 3.86", rainfall was 0.22" above average and ranks as the 42<sup>nd</sup> wettest November since 1895. This was enough rainfall to raise the statewide calendar year total to date to 60.50". This surpasses the calendar year record of 58.98" in 1996. North Jersey has been wetter than average compared to south Jersey this year, but all areas have been well above average. The past twelve-month total (December 2010-November 2011) of 63.80" ranks as the 3<sup>rd</sup> wettest consecutive twelve-month record. This only sits behind the 66.60" total established from April 2009-March 2010 and 64.36" from May 2009-April 2010. A quite impressive feat when realizing that there have been 1393 twelve-month intervals since the first statewide averages were generated in 1895.

As has often been the case in 2011, the northwest portion of New Jersey was wettest in November. The largest totals included White Township (Warren) with 5.74", Holland Township (Hunterdon) at 5.55", and 5.35" in Oxford Township (Warren). On the low end were locations in the southwest and coastal north. This included 2.18" in Woolwich Township (Gloucester), 2.84" at Wall Township (Monmouth), and 2.87" in Berlin Township (Camden).

The first two weeks of November saw little or no rain across the entire state. Late on the 15<sup>th</sup> until the early hours of the 17<sup>th</sup>, most of NJ received at least 0.50". This included 1.00" to almost 2.00" in the southeast, with top totals in the Cape May County towns of Wildwood Crest (1.92"), Dennis Township (1.68"), Upper Township (1.64"), and Woodbine (1.64" and 1.63" reports). A secondary maximum of 0.75"-1.00" occurred in the northern third of the state. A moderate event on the 20<sup>th</sup>-21<sup>st</sup> again brought the southern quarter the most rain. Woodbine was dampened with 0.58", and both Upper Township and Hamilton (Atlantic) with 0.49". Totals fell off to under 0.10" in northern NJ.

The most notable event of November was a rainstorm from late on the 21<sup>st</sup> to the morning of the 23<sup>rd</sup> that deposited 1.00-3.00" of rain over most of the state. Taking top honors was Bethlehem (Hunterdon) with 3.37", followed by Lacey Township (Ocean) at 3.16" and White Township (Warren) with 3.15". On the low end, Wildwood Crest and Stone Harbor in Cape May County came in with 0.82". Of 189 Community Collaborative Rain, Hail and Snow Network reports for this event, ten exceeded 3.00" and 122 ranged from 2.00"-2.99". Warren, Hunterdon, and coastal Ocean county locations had 2.50" to over 3.00", the southern quarter of NJ received 1.00"-1.50", and the remainder saw 1.50"-2.50". Some streams and rivers briefly reached bank full or low flood stage, closing some commonly flooded roads.

The final rain event of the month occurred from midday on the 29<sup>th</sup> to early on the 30<sup>th</sup>. Approximately 1.00" fell in the northwest, with the remainder of the state receiving about 0.50". White Township (Warren) received 1.27", Blairstown (Warren) had 1.21", and Mt. Olive (Morris) and Hackettstown (Warren) each caught 1.20".

This was a snow-free month for New Jersey, with the exception of the melting snow cover that remained from the late October storm. The month began with a covering in north and central counties that exceeded 5" at higher elevations. Most of this was gone by the 4<sup>th</sup>, although patches of snow were observed in shady locations through at least the 8<sup>th</sup>. Accompanying the melt was the restoration of power to remaining customers, who immediately following the storm numbered close to one million. Approximately 375,000 were without power on the 1<sup>st</sup>, with that number declining to 9,000 by the 5<sup>th</sup>.

Fog plagued portions of NJ on the 7<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, and 17<sup>th</sup>, particularly on the middle two dates. The maximum pressure for the month was in the 30.55"-30.60" range on the 6<sup>th</sup> and lowest from 29.55"-29.60" on the 23<sup>rd</sup>. Wind gusts were 40 mph or greater at three locations over eight days. On the 4<sup>th</sup>, Atlantic City Marina (Atlantic) gusted to 40 mph. Wantage (Sussex) reached 44 mph on the 10<sup>th</sup>, High Point Monument (Sussex) 42 mph on the 11<sup>th</sup>, and Wantage 44 mph and High Point Monument 40 mph on the 14<sup>th</sup>. High Point Monument had gusts to 46 mph on the 18<sup>th</sup>, 43 mph on the 19<sup>th</sup> (when Atlantic City Marina reached 40 mph), 41 mph on the 29<sup>th</sup>, and 40 mph on the 30<sup>th</sup>.

**Fall Overview**

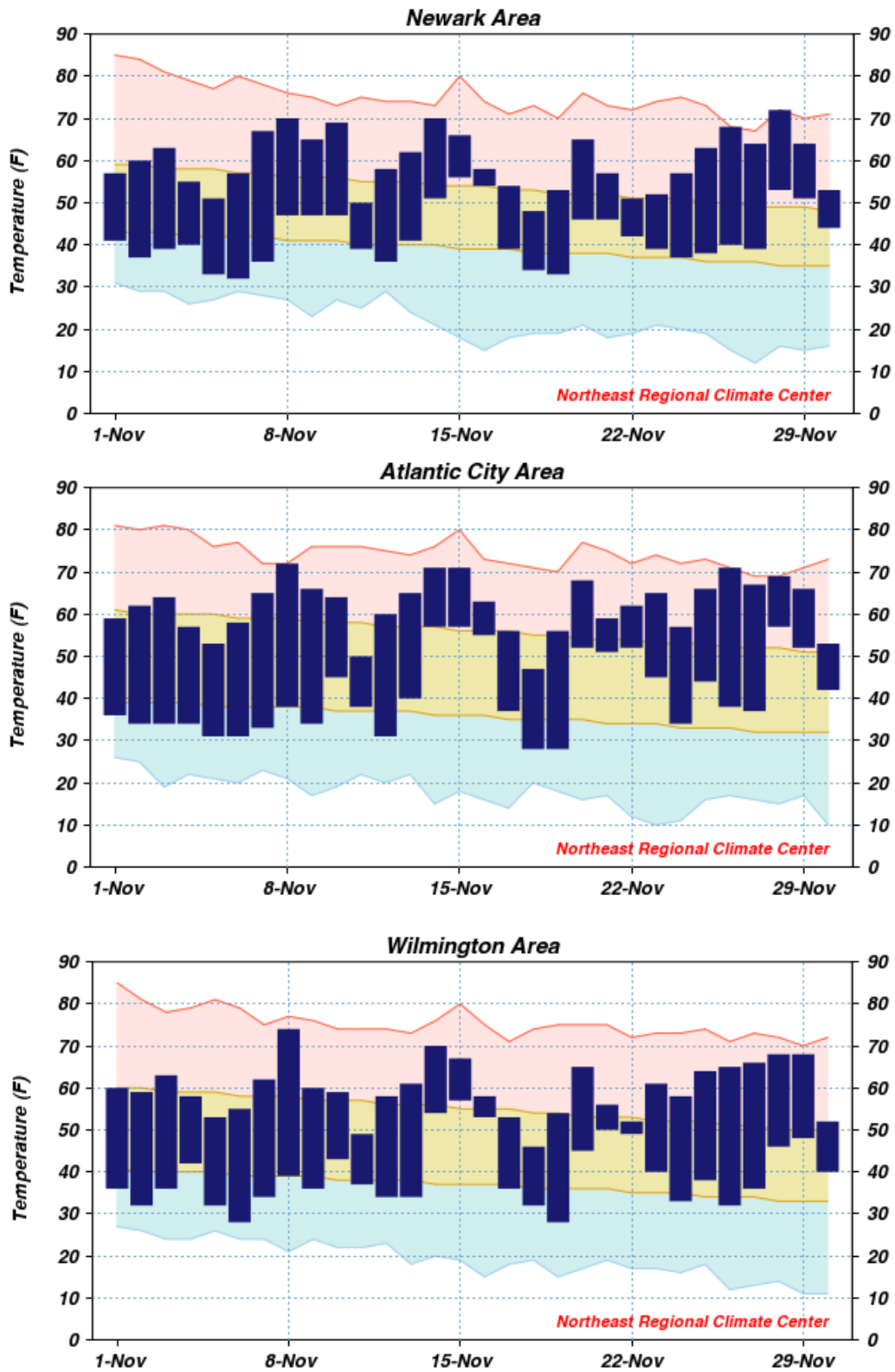
Fall 2011 was warm and damp throughout New Jersey and, for several days, quite white in the northern half of the state. The average temperature for September-November was 58.1°, which is 2.7° above average and makes this the 4<sup>th</sup> warmest fall on record (Table 2). Temperatures each month were above average, with September (5<sup>th</sup>) and November (10<sup>th</sup>) in the top ten going back 117 years.

Rank	Year	Fall Temp.
1	1931	59.1°
2	2005	58.5°
3	2007	58.2°
<b>4</b>	<b>2011</b>	<b>58.1°</b>
5	1961	58.0°
6	1900	57.9°
6	1946	57.9°
8	1985	57.7°
9	1941	57.4°
10	1971	57.3°
11	1959	57.1°
12	1970	57.0°
13	2010	56.9°
14	2001	56.8°
15	1999	56.7°

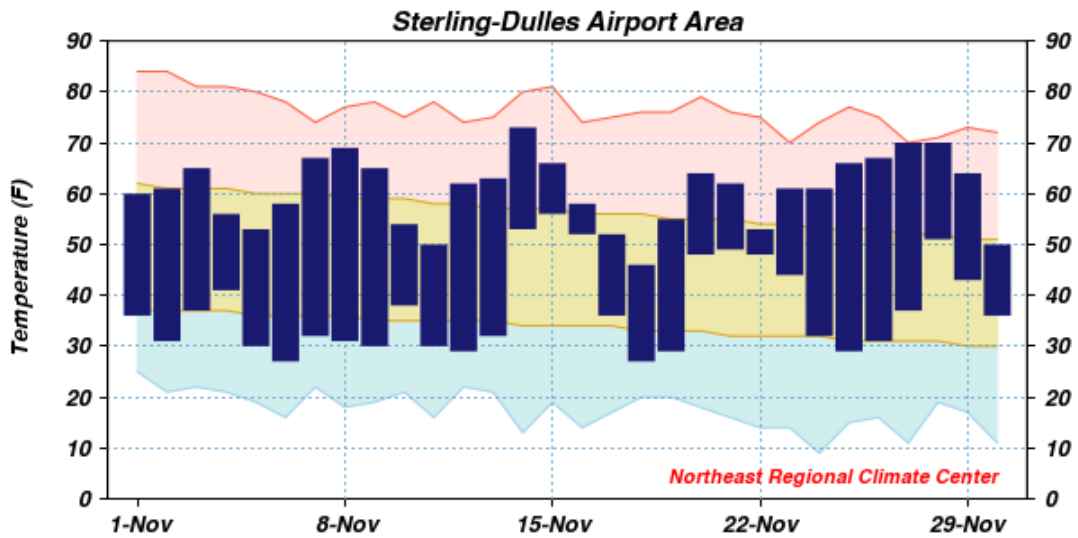
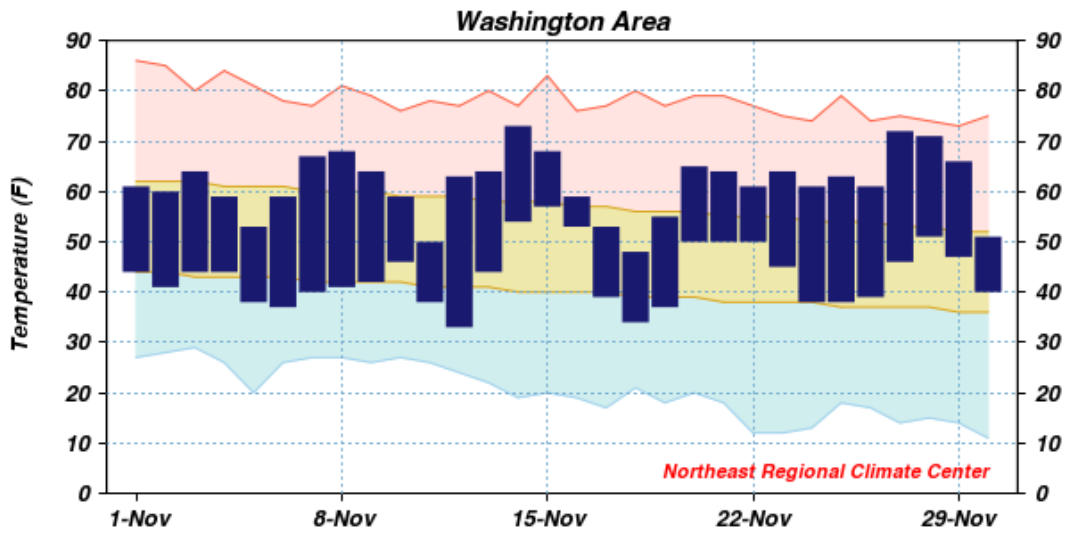
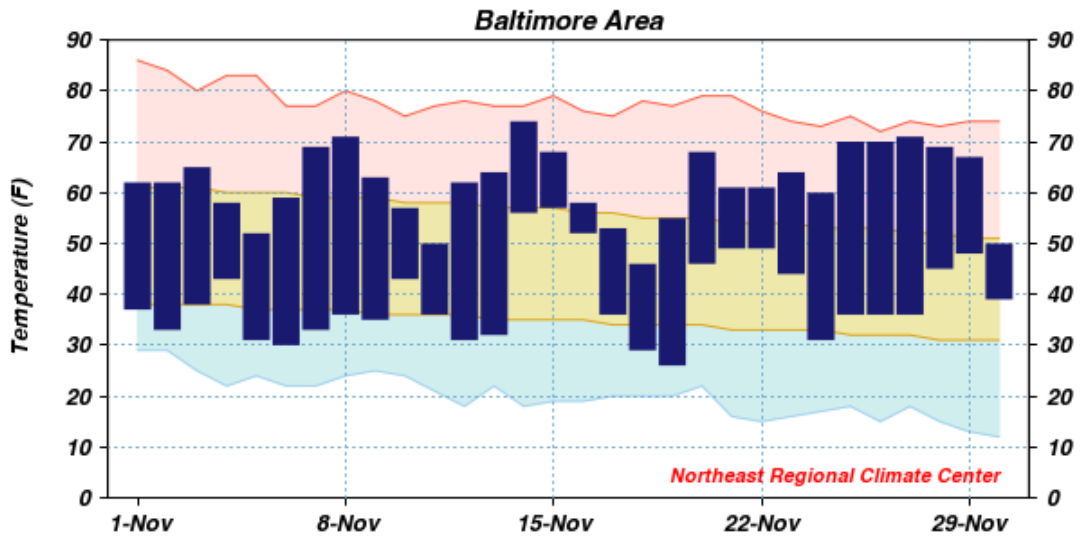
Table 2. The fifteen warmest falls (September-November) across New Jersey since 1895.

Fall precipitation totaled 14.72", which is 3.08" above average and ranks as 18<sup>th</sup> wettest. The remnants of Tropical Storm Lee in early September boosted the monthly total to a 10<sup>th</sup> place ranking. This was followed by slightly above average totals in October and November. By far the largest October snowstorm on record clobbered central and northern areas of the state at the end of the month; an event that like several others in 2011 will long be remembered in New Jersey weather and climate annals.

# DAILY AVERAGE TEMPERATURES AND THE 30-YEAR NORMAL

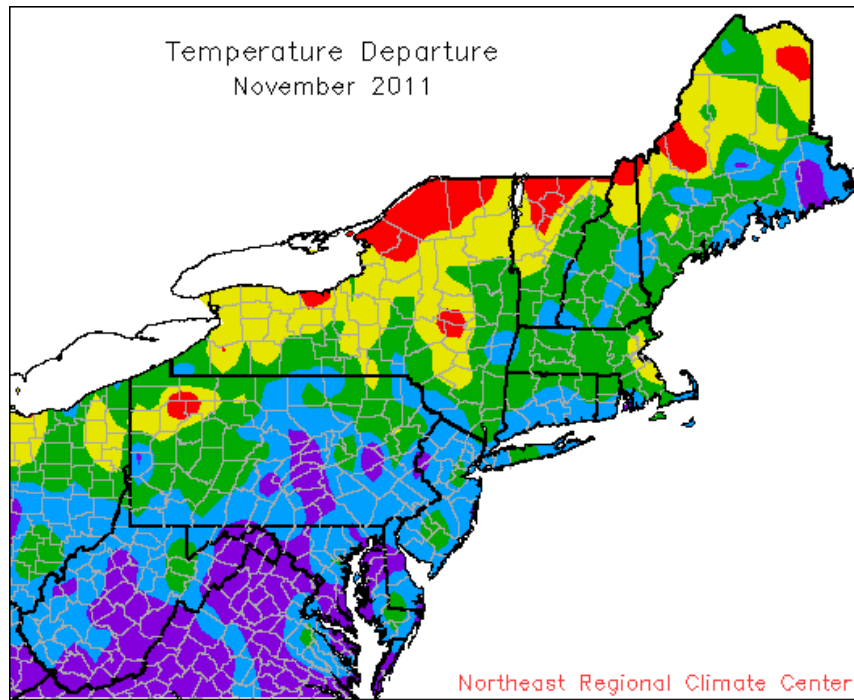
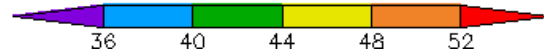
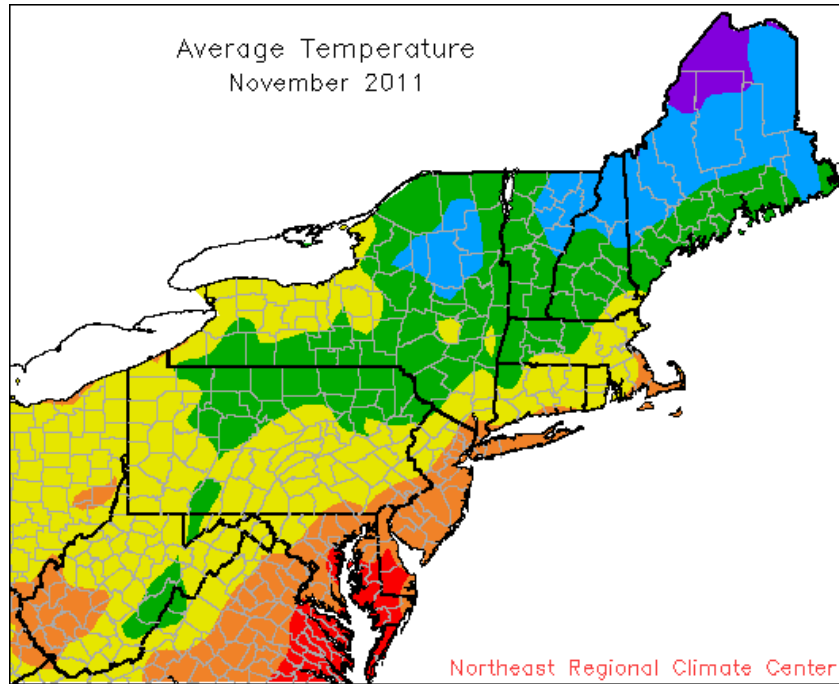




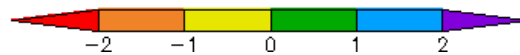
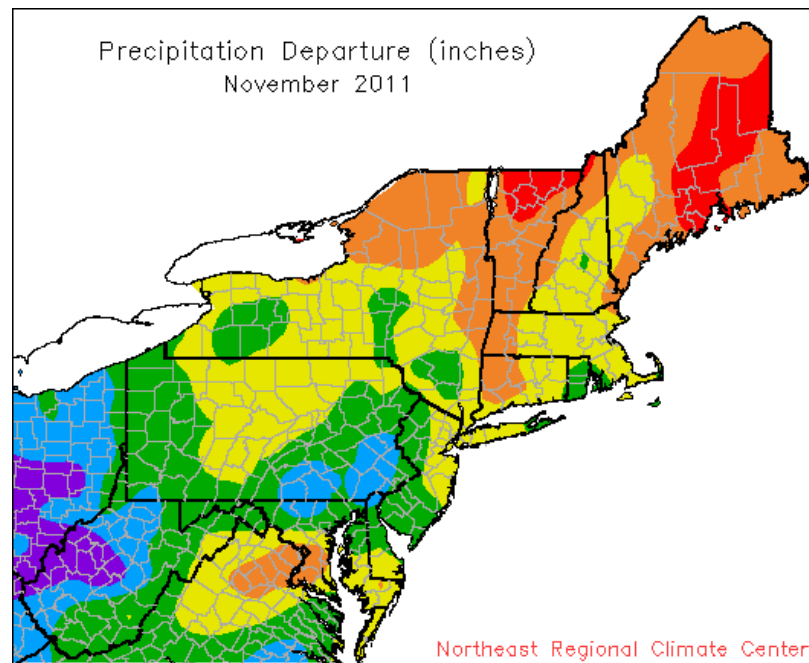
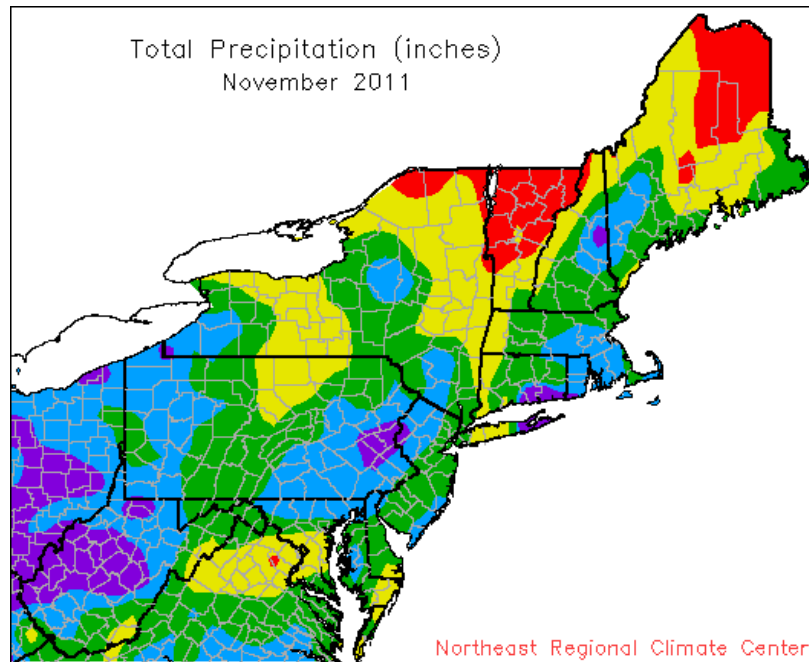


Area between normal max and min temperatures has tan shading.  
 Red line connects record high temperatures.  
 Light blue line connects record low temperatures.

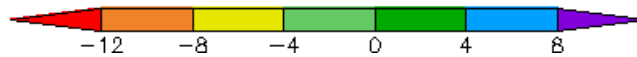
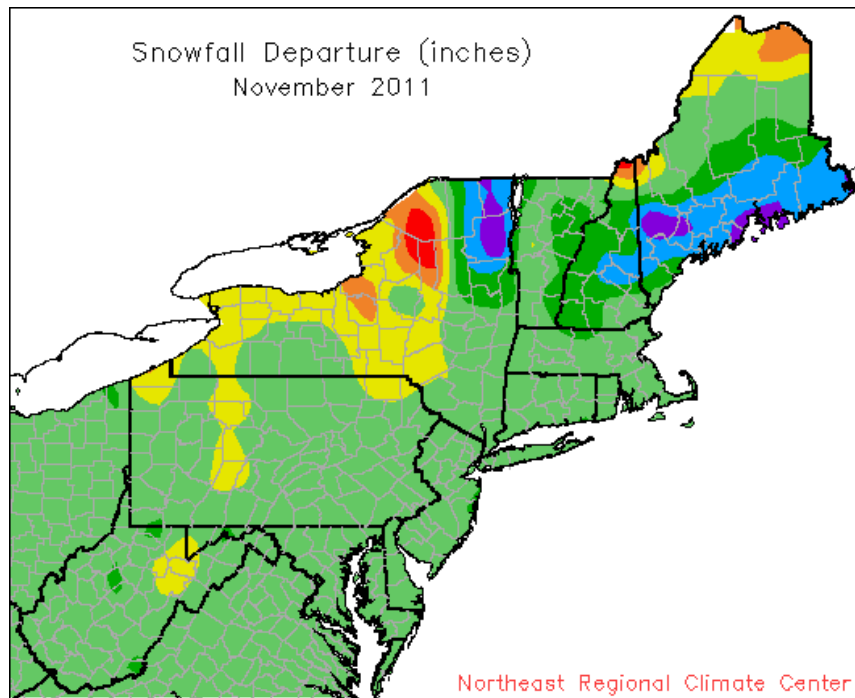
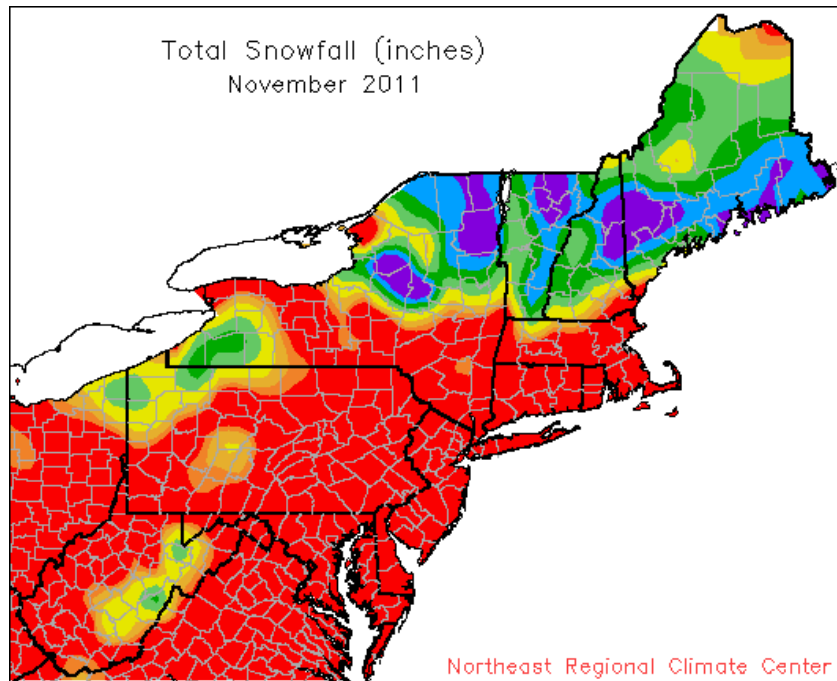
# MONTHLY TEMPERATURE MAPS



## MONTHLY PRECIPITATION MAPS



# MONTHLY SNOWFALL MAPS



# PRELIMINARY MONTHLY SUMMARIZED DATA NOVEMBER 2011

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-																			
BEAR 2 SW	59.6	38.5	49.1	3.8	71	14	25	19	28	0	7	0	4.01	0.54	5	1.54	22	0	
WILMINGTON NEW CAS	59.8	39.3	49.6	3.0	74	8	28	19+	28	0	6	0	4.13	1.03	6	1.64	22	0	
WILMINGTON PORTER R	57.5	41.6	49.6	3.4	67	29+	32	19	26	0	1	0	4.48	1.00	6	1.45	22	0	
-DIVISION-			49.4	3.1									4.21	0.88				0	
-DE: SOUTHERN-																			
DOVER	62.4	41.4	51.9	2.7	72	14	29	19	29	0	4	0						NM	
-DIVISION-			51.9	3.4															
-STATE-			51.3	3.3									0.93	-2.62				0	
-MD: SOUTHEASTERN-																			
SALISBURY WICOMICO	64.4	41.4	52.9	4.7	74	29+	28	19+	29	0	4	0	2.31	-1.12	5	0.64	23		
-DIVISION-			52.9	3.6									2.31	-1.08					
-MD: CENTRAL EAST-																			
-DIVISION-																			
-MD: LOWER SOUTHE-																			
MECHANICSVILLE 5 N	61.4	37.8	49.6	2.5	74	15	28	20+	26	0	10	0							
SOLOMONS	59.8	46.2	53.0	1.3	74	15	35	18	27	0	0	0	3.25		8	1.13	17	NM	
-DIVISION-			51.3	3.2									3.25	-0.31					
-MD: UPPER SOUTHE-																			
BALTIMORE WASH INT	62.0	39.1	50.5	4.0	74	14	26	19	29	0	7	0	2.45	-0.85	5	1.17	22	0	
BELTSVILLE	61.5	38.6	50.1	3.3	73	15	27	19	27	0	7	0	1.95	-1.29	7	0.78	23	0	
DALECARLIA RSVR	60.8	39.1	49.9	2.3	73	16+	29	19	27	0	6	0	2.05	-1.57	5	0.73	23	0	
BALTIMORE DOWNTOWN	63.1	46.4	54.8	4.5	77	14	36	18	29	0	0	0	3.09	0.12	5	1.73	22	NM	
NATL ARBORETUM DC*	63.6	40.1	51.8	3.0	75	15	28	19											
OXON HILL	61.5	40.2	50.8	2.4	73	15	31	12	27	0	2	0	2.38	-1.22	5	0.69	23	0	
-DIVISION-			51.3	3.8									2.38	-1.20				0	
-MD: NORTHEASTERN-																			
STEVENSVILLE	60.5	44.2	52.4	3.2	73	15	35	6+	28	0	0	0	2.80		4	1.00	23	0	
-DIVISION-			52.4	5.1									2.80	-0.51				0	
-MD: NORTHERN CEN-																			
ABERDEEN PHILLIPS	60.3	37.8	49.1	2.1	72	15	27	19	28	0	9	0	3.93	0.51	9	1.90	23	0	
CATOCTIN MTN PK	56.4	40.6	48.5	4.1	69	8	26	18	25	0	5	0						NM	
CONOWINGO DAM													4.94	1.40	7	2.60	23	0	
CYLBURN	59.6	40.7	50.1	4.4	71	15	29	6	28	0	5	0						NM	
DAMASCUS	56.9	39.6	48.3	3.1	69	15	28	19+	26	0	6	0	4.26	0.34	7	1.74	23		
EMMITSBURG 2 SE	57.5	35.2	46.4	2.5	68	9	24	19	27	0	15	0	4.90	1.29	7	2.79	23	0	
MILLERS 4 NE	58.3	39.2	48.8	4.4	71	8	26	18	27	0	6	0	5.23	1.64	7	1.88	23	0	
SMITHSBURG	57.0	35.5	46.3	2.3	67	15+	26	19+	26	0	15	0	4.82	1.16	7	2.50	23	0	
WESTMINSTER POL BR	58.9	37.6	48.3	3.0	72	9	28	7	27	0	9	0	5.00	1.73	7	2.79	23	0	
-DIVISION-			48.2	2.8									4.69	1.11				0	
-MD: APPALACHIAN -																			
CUMBERLAND 2	60.3	34.9	47.6	2.2	79	15	25	19	27	0	12	0	3.09	0.11	7	1.01	23	NM	
FROSTBURG 2	54.0	35.0	44.5	4.0	72	15	22	19+	22	0	13	0	3.28	-0.39	6	1.10	23		
SHARPSBURG 5 S	59.5	33.9	46.7	2.2	72	15	23	19+	27	0	19	0	3.82	0.42	6	1.65	23		
WILLIAMSPORT *	58.8	34.9	46.9	2.2	70	9	25	20+											
-DIVISION-			46.4	3.0									3.40	0.10					
-MD: ALLEGHENY PL-																			
OAKLAND 1 SE	55.5	31.4	43.4	4.1	71	15+	21	18	22	0	23	0	3.99	0.16	8	1.38	23	0.7	0.5 11
KITZMILLER 1 W	56.7	34.0	45.3		73	15	24	20+	24	0	16	0						NM	
-DIVISION-			44.3	3.8									3.99	0.48				0.7	
-STATE-			43.5	-2.9									3.19	-0.31				0	
-NJ: NORTHERN-																			
BELVIDERE BRG *	56.7	30.3	43.5	0.6	72	9	21	27					5.07	1.50	5	2.51	23	0	
BOONTON 1 SE *	57.3	35.7	46.5	3.3	68	11	26	7+											
BOUND BROOK 2 W	56.6	39.6	48.1		68	30	30	6	26	0	2	0	3.16	-0.51	4	1.91	23	0	

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	MIN	50+ 32-	32- 0-	0-	MON TOT	DEPRT 0.1+	DAYS 0.1+	DLY MAX	DAY MAX	MON TOT	DLY MAX
CANOE BROOK *	58.1	37.2	47.6	3.9	71	9	27	5						4.85	0.79	6	2.10	23		0
CHARLOTTEBURG RSV*	56.0	35.2	45.6	2.9	69	9	24	7+											NM	
CHATHAM 2 W *	58.3	35.5	47.1	3.7	71	11+	26	19+					3.60	-0.60	6	1.64	23		0	
CRANFORD	58.4	44.3	51.4	6.1	71	29	32	18	29	0	1	0	3.78	-0.30	6	1.86	23		0	
FLEMINGTON 5 NNW *	57.6	34.4	46.0	2.7	70	15+	25	6											NM	
HARRISON	58.9	40.3	49.6	2.9	72	9	31	6	26	0	2	0	3.52	-0.47	5	1.90	23		NM	
LAMBERTVILLE									4.08	0.24	7		1.93	23				NM		
NEWARK INTL AP	60.0	41.9	50.9	4.1	72	28	32	6	29	0	1	0	3.53	-0.12	5	1.69	22			
PHILLIPSBURG EAST*	58.2	34.1	46.2	2.7	72	9	27	7+												
PLAINFIELD	61.1	40.8	51.0	5.5	73	28+	29	18+	28	0	4	0	3.69	-0.16	4	1.54	23		0	
POTTERSVILLE 2 NNW	55.0	36.4	45.7		66	9	29	19	23	0	8	0	4.63	0.36	5	2.62	23		0	
SUSSEX 2 NW *	55.5	33.3	44.4	3.5	69	9	23	6+												
WAYNE *	58.8	39.0	49.0		69	15+	30	1	4.02				5	1.87	23				0	
WERTSVILLE 4 NE *	58.1	37.3	47.7	3.6	71	9	26	1	3.76	0.08	5		1.77	23				NM		
TOCKS ISLAND	57.0	34.6	45.8		72	9	26	6	24	0	15	0							NM	
-DIVISION-			47.4	3.5					3.96	0.05									0	
-NJ: SOUTHERN-																				
ATLANTIC CITY INTL	62.1	40.8	51.5	4.7	72	8	28	19+	29	0	5	0	4.52	1.25	6	1.57	16		0	
ESTELL MANOR	62.3	37.8	50.1	4.0	73	29+	24	19	28	0	11	0	4.42	0.79	5	1.58	23		0	
FREEHOLD MARLBORO*	61.2	38.5	49.9	3.6	73	29+	27	6											NM	
HAMMONTON 1 NE									4.13	0.74	7		1.77	23				0		
HIGHTSTOWN 2 W	60.9	36.1	48.5	3.2	74	29+	25	6	27	0	13	0	3.35	-0.21	6	1.92	23		NM	
INDIAN MILLS	61.7	38.6	50.1	4.5	73	8	24	19	29	0	9	0	3.26	-0.40	6	1.57	23		0	
MILLVILLE MUNI AP*	60.2	37.5	48.8	3.0	70	8	26	19+											NM	
MOORESTOWN *	61.5	39.3	50.4	3.9	72	14+	29	6											NM	
NEW BRUNSWICK 3 SE	61.5	36.5	49.0	3.6	75	9	27	6+	27	0	10	0	3.63	-0.20	6	2.08	23		0	
SEABROOK FARMS	61.1	41.9	51.5	3.8	72	16+	31	6	27	0	1	0	3.94	0.68	8	1.40	23		0	
SOMERDALE 4 SW	57.4	37.2	47.3		69	15	26	12+	26	0	11	0	3.74	0.38	7	1.76	23		NM	
TRENTON MERCER CO	60.5	40.4	50.4	4.7	73	28+	31	6	28	0	2	0	3.97	0.66	5	1.73	22		NM	
PHILADELPHIA MT H*	60.6	37.7	49.1		73	15+	28	19+												
-DIVISION-			49.7	3.4					3.85	0.35									0	
-NJ: COASTAL-																				
ATLANTIC CITY	58.2	46.8	52.5	3.1	66	16	36	19	28	0	0	0	3.54	0.19	6	1.52	17		NM	
BRANT BEACH HVN	57.1	45.7	51.4	3.1	66	16	36	18	26	0	0	0	2.49	-0.42	6	0.70	23		NM	
CAPE MAY 2 NW	60.7	43.3	52.0	3.0	71	14	33	18	29	0	0	0	3.99	0.70	6	1.62	16		0	
LONG BRANCH OAKHUR	60.2	40.3	50.3	3.1	72	15	30	6+	28	0	3	0	3.30	-0.31	7	1.68	23		NM	
-DIVISION-			51.6	3.2					3.33	0.00									0	
-STATE-			49.0	3.4					3.85	0.22									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 NOVEMBER 2011

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-												
BEAR 2 SW	471	-122	793	-180	0	0	1311	292				
WILMINGTON NEW CAST	457	-97	763	-135	0	0	1436	291				
WILMINGTON PORTER RS	455	-108	786	-134	0	0						
-DE: SOUTHERN-												
DOVER	383	-96			0	-3						
-MD: SOUTHEASTERN SHORE-												
SALISBURY WICOMICO	359	-146	584	-234	3	0	1719	566				
-MD: CENTRAL EASTERN SHORE-												
-MD: CENTRAL EASTERN SHORE-												
-MD: LOWER SOUTHERN-												
MECHANICSVILLE 5 NE	452	-87	775	-141	0	-2	1241	225				
SOLOMONS	356	-47	515	-51	4	0						
-MD: UPPER SOUTHERN-												
BALTIMORE WASH INTL	426	-131	714	-190	0	-1	1558	394				
BELTSVILLE	439	-108	726	-158	0	-1	1535	297				
DALECARLIA RSVR	444	-80	774	-40	0	-2	1636	228				
BALTIMORE DOWNTOWN	303	-139	469	-182	3	2						
OXON HILL	419	-80	686	-87	0	-2	1634	251				
-MD: NORTHEASTERN SHORE-												
STEVENSVILLE	374	-102	595	-99	0	0	1646	420				
-MD: NORTHERN CENTRAL-												
ABERDEEN PHILLIPS F	473	-66	783	-96	0	-1						
CATOCTIN MTN PK	489	-128			0	-1						
CYLBURN	438	-143	793	-168	0	0						
DAMASCUS	495	-100	909	-92	0	-1						
EMMITSBURG 2 SE	551	-82	965	-114	0	0	1066	207				
MILLERS 4 NE	481	-139	858	-199	0	0	1161	366				
SMITHSBURG	553	-77			0	0						
WESTMINSTER POL BRK	492	-100			0	-1						
-MD: APPALACHIAN MOUNTAIN-												
CUMBERLAND 2	513	-76			0	-1						
FROSTBURG 2	606	-129	1221	-190	0	0	585	178				
SHARPSBURG 5 S	540	-76	971	-58	0	-1	1095	222				
-MD: ALLEGHENY PLATEAU-												
OAKLAND 1 SE	639	-132	1315	-176	0	0	505	179				
KITZMILLER 1 W	581				0							
-NJ: NORTHERN-												
BOUND BROOK 2 W	497		787		0		1420					
CRANFORD	403	-187			0	0						
HARRISON	454	-97			0	-1						
NEWARK INTL AP	413	-134	659	-209	0	-1	1585	393				
PLAINFIELD	412	-173			0	0						
POTTERSVILLE 2 NNW	571				0							
TOCKS ISLAND	568		969		0		826					
-NJ: SOUTHERN-												
ATLANTIC CITY INTL	401	-148	661	-246	0	-1	1465	410				
ESTELL MANOR	441	-126	737	-229	0	-2	1365	391				
HIGHTSTOWN 2 W	485	-107	803	-220	0	-1						
INDIAN MILLS	439	-145			0	-1						
NEW BRUNSWICK 3 SE	474	-113	769	-232	0	0						
SEABROOK FARMS	395	-125			0	-1						
SOMERDALE 4 SW	523		922		0		1299					
TRENTON MERCER CO A	430	-149	713	-263	0	0	1437	472				
-NJ: COASTAL-												
ATLANTIC CITY	369	-101	570	-143	0	0	1221	201				
BRANT BEACH HVN	400	-101			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
CAPE MAY 2 NW	384	-98	591	-151	0	-1	1413	325				
LONG BRANCH OAKHURS	435	-100			0	0						

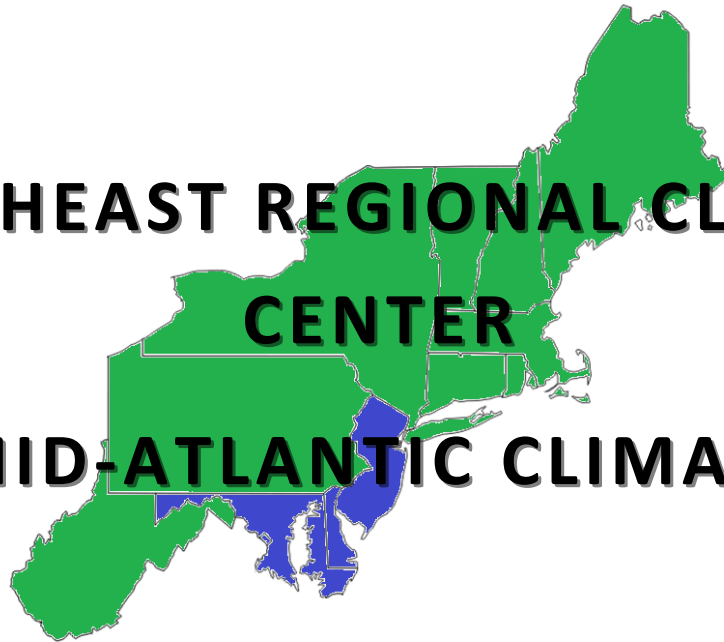
The heating season begins July 1 and ends June 30. The cooling season begins January 1 and ends December 31.  
The growing season begins March 1 and ends October 31. All departures are calculated from the 1981 - 2010 mean.  
These data are considered preliminary, published data from the National Climatic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



**NORTHEAST REGIONAL CLIMATE**

**CENTER**

**MID-ATLANTIC CLIMATE**



**Northeast  
Regional  
Climate  
Center**



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