

# Northeast Regional Climate Center

## Mid-Atlantic Climate

### CONTENTS

CLIMATE DIVISION MAPS.....	1
SEPTEMBER WEATHER HIGHLIGHTS.....	2
DAILY AVERAGE TEMPERATURES AND THE 30-YEAR NORMAL.....	7
MONTHLY TEMPERATURE MAPS.....	9
MONTHLY PRECIPITATION MAPS .....	10
PRELIMINARY MONTHLY SUMMARIZED DATA SEPTEMBER 2012.....	11
PRELIMINARY MONTHLY DEGREE DATA SEPTEMBER 2012.....	13



### SEPTEMBER 2012

VOLUME 112 NUMBER 9

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

Address: Phone: (607)255.1751

1123 Bradfield Hall Fax: (607)255.2106

Cornell University Email: [nrcc@cornell.edu](mailto:nrcc@cornell.edu)

Ithaca, NY 14853

#### NRCC Staff:

**Dr. Arthur DeGaetano**  
Director  
**Mr. William Noon**  
Computer Analyst

**Mr. Keith Eggleston**  
Regional Climatologist  
**Ms. Jessica Rennells**  
Assistant Climatologist

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

**Mrs. Pamela Vitale**  
Administrative Assistant

#### State Climatologists:

**David Legates**  
210 Newark Hall  
Department of Geography  
Newark, DE 19716  
302-831-2294

**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



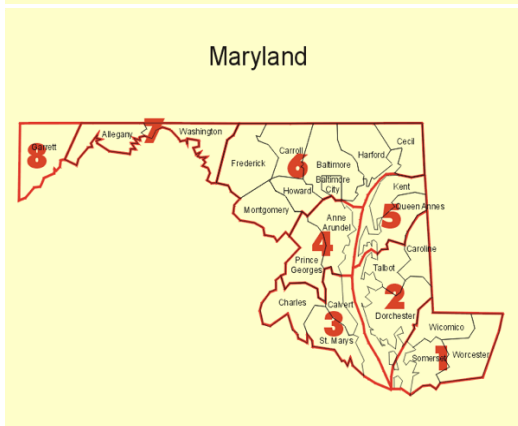
## Delaware Climate Divisions

- 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



## SEPTEMBER WEATHER HIGHLIGHTS

For the third year in a row, temperatures in the Mid-Atlantic region averaged warmer than normal during September. The regional average was 67.4 degrees, which was 0.5 degrees above normal. This was 2 degrees cooler than September 2011. Temperature departures among the states were +0.2 degrees in Maryland, +0.3 degrees in Delaware, and +1.1 degrees in New Jersey. Two spots in Maryland, one in DC, and one in New Jersey hit highs of 96 degrees on the 1<sup>st</sup>. The low for the region was 31 degrees at Deep Creek, MD, on the 25<sup>th</sup> and 26<sup>th</sup>.

With 4.24 inches, the Mid-Atlantic region was 104 percent of normal for precipitation in September. In comparison, September 2010 received 7.47 inches, which was the 6<sup>th</sup> wettest September on record. While Delaware was slightly drier than average at 93 percent of normal, both New Jersey (105 percent) and Maryland (103 percent) were slightly wetter than average. Maryland had both the wettest and driest climate divisions. The Lower Southern division received only 2.73 inches (61 percent of normal) while the Southeastern Shore reported 8.62 inches (211 percent), making it the 6<sup>th</sup> wettest September on record for that division. Salisbury, which is located in the division, was the wettest location as it received 10.66 inches of rain.

An EF0 tornado touched down in Kent County, DE, on the 3<sup>rd</sup> injuring two and causing damage to several homes. A few days later, on the 8<sup>th</sup>, severe thunderstorms downed trees and left 190,000 people without power. Another strong storm system brought heavy rain and high winds on the 18<sup>th</sup>. Washington National Airport, DC, reported a gust of 61 mph and flash flooding closed several roads across the region.

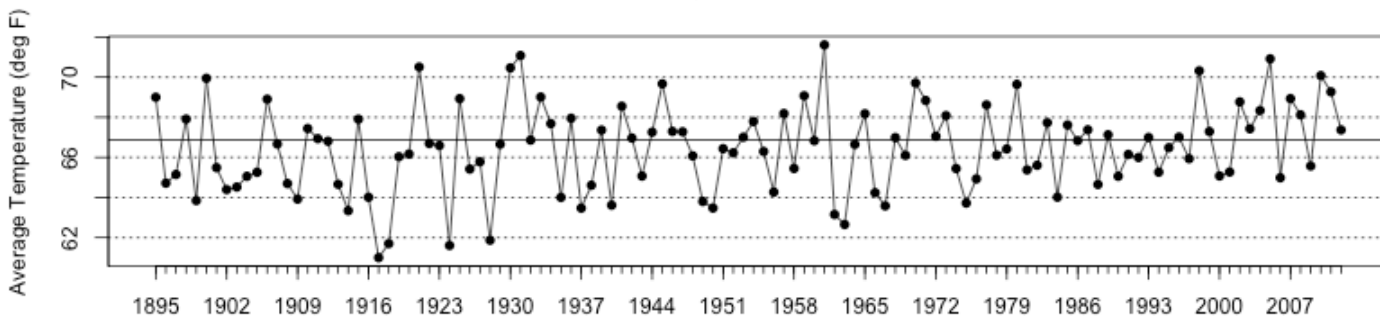
### Daily High Minimum Temperature Records (°F)

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Washington Dulles, DC	4	71	70 in 1979
Washington National, DC	4	76	76 in 1953
Baltimore, MD	4	75	75 in 1953
Washington National, DC	5	78	76 in 1983

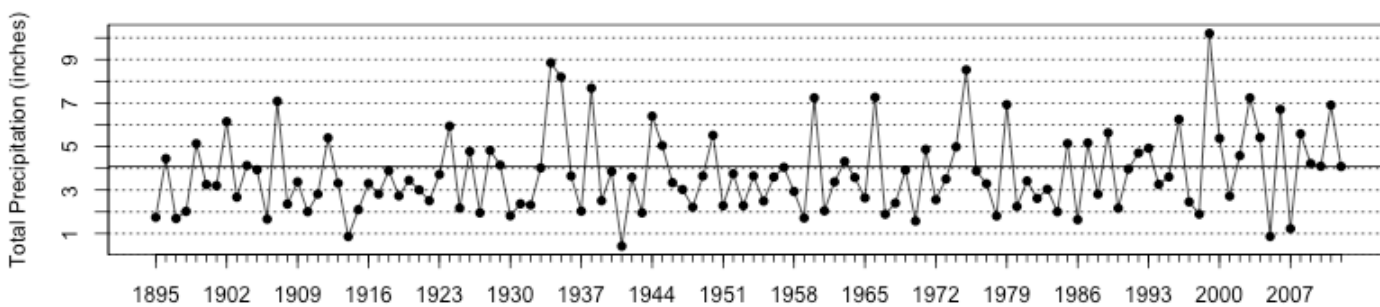
### Daily Precipitation Records (inches)

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Baltimore, MD	26	3.36	1.73 in 1974

### Mid Atlantic Average September Temperatures



### Mid Atlantic September Precipitation Totals



The 2012 values depicted on these graphs are based on preliminary data.

## Widely Varying Precipitation: September 2012 Report

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

As is often the case as we transition from one season to another, September 2012 had a wide variety of weather conditions, both from day to day and from region to region. This is certainly exemplified in the hourly temperature map that accompanies this narrative. At 7AM on September 25<sup>th</sup>, temperatures recorded at [NJ Weather and Climate Network](#) (NJWxNet) locations ranged from 34° in Basking Ridge (Somerset County) and Pequest (Warren) to 63° at the Atlantic City Marina (Atlantic). What is known as "cold air drainage" on this clear, calm morning led to the crisp, borderline frosty morning at low-lying inland locations. Meanwhile, higher elevations were milder, as seen by the 50° in Parsippany (Morris) and 45° at High Point (Sussex). The coastal warmth was due to the proximity of the communities to the still warm waters of the ocean and bays. Higher temperatures were also experienced at urban New York City and Philadelphia stations. Keep a keen eye on NJWxNet maps over the coming months and you will be sure to see this pattern emerge time and again. Meanwhile, when clouds cover the state and the wind is blowing you may not see more than a 5° range in morning temperatures.

Back to September 2012 conditions around New Jersey. The month averaged 67.1°, which is 0.9° above average (1981-2010 averaging period) and ranks as the 24<sup>th</sup> warmest September dating back 118 years to 1895. This keeps alive the string of 20 months without one being below average in the temperature department.

There were nineteen days when the daily maximum temperature reached or exceeded 80° at one or more of the over 50 NJWxNet stations around the state. Six of these saw maximums reach 85°. The hottest day of the month was the 1<sup>st</sup> when Atlantic City Marina and Bethel Mill Park (Gloucester) got to 94°. 32 other stations were between 90°-93°, with High Point Monument (Sussex) the coolest spot at 82°. On the 4<sup>th</sup>, Dennis Township (Cape May) was warmest at 88° and on the 5<sup>th</sup> Greenwich (Salem) reached 89°. The season's last 90° readings were on the 7<sup>th</sup> at Cherry Hill (Camden), Eastampton (Burlington), and New Brunswick (Middlesex). The 8<sup>th</sup> saw seven southern stations reach 88°, while on the 22<sup>nd</sup> five stations got to 85°.

On thirteen mornings the minimum temperature dipped to 45° or cooler at one or more locations. The 43° at Walpack (Sussex) on the 10<sup>th</sup> started the run of such days. The 11<sup>th</sup>, 12<sup>th</sup>, and 13<sup>th</sup> found Basking Ridge and Pequest tied for low honors at 38° (first 30°s of the season), 41° and 44°, on respective mornings. Walpack and Pequest were down to 44° on the 15<sup>th</sup>, with Pequest and Basking Ridge 40° and 39° on the 16<sup>th</sup> and 17<sup>th</sup>, respectively. Pequest stood alone at 41° on the 19<sup>th</sup>, joined by Basking Ridge on the 20<sup>th</sup> at 37° and by Berkeley Township (Ocean) at 42° on the 23<sup>rd</sup>. Three stations fell to 38° on the 24<sup>th</sup>. The 25<sup>th</sup> was the coldest morning of the month, with scattered frost observed at valley locations in the northwest. Pequest and Basking Ridge bottomed out at 34°, seven other stations were in the 30°s, and 30 locations ranged between 40° and 45°. West Cape May (Cape May) and Atlantic City Marina only reached 59°.

The year-to-date average temperature for the state is 59.1°, making this the warmest such interval on record (Table 1). This is 3.2° above the 30-year average.

Rank	Year	Jan-Sep Avg. Temp.
<b>1</b>	<b>2012</b>	<b>59.1°</b>
2	1998	58.5°
2	2010	58.5°
4	2002	58.4°
5	2006	57.5°
5	1991	57.5°
5	1949	57.5°
8	2011	57.4°
9	2008	57.1°
9	1921	57.1°

Table 1. The ten warmest January to September intervals across New Jersey since 1895.

Turning to precipitation, September's statewide average was 3.97". This is just 0.10" below average and ranks as the 48<sup>th</sup> wettest on record. Year-to-date precipitation is 30.10", which is 26<sup>th</sup> driest and 5.36" below the 30-year average.

The near-average September total belies the fact that there was an exceptional range of monthly values across New Jersey. Four locations exceeded 10", including Woodland Township (Burlington) 11.76", and in Ocean County, Berkeley Township 10.65", Toms River 10.58", and Pine Beach 10.23". Wildwood Crest (Cape May) was the driest location with 1.73", followed by the central Jersey communities of North Brunswick (Middlesex) 2.19", Ewing Township (Mercer) 2.23", and Montgomery Township (Somerset) 2.27". It is exciting to report that 263 [Community Collaborative Rain, Hail and Snow](#) (CoCoRaHS) network citizen scientists contributed to this month's evaluation, although not all reported frequently enough to generate a monthly tally.

The precipitation action began on the 2<sup>nd</sup>, with Monmouth County and the northeast corner of the state getting the heaviest rain. Two Holmdel (Monmouth) gauges caught 2.16" and 2.54", with the Bergen County locales of Haworth 1.63" and Tenafly 1.50" posting hefty totals.

A complex pattern of thunderstorms impacted NJ from the 3<sup>rd</sup>-5<sup>th</sup>. In some locations they were accompanied by flooding rain and damaging winds, including NJ's first tornado of 2012. A deluge in southern Burlington and the much of Ocean counties from late on the 3<sup>rd</sup> into the morning of the 4<sup>th</sup> brought unofficial reports of over 10". National Weather Service radar estimates suggest they may have been legitimate observations. Later on the 4<sup>th</sup>, a very unstable atmosphere produced more heavy rain (especially in the northwest corner of NJ), a funnel cloud spotted by an ONJSC staff member near Chatsworth (Burlington), and a confirmed tornado in Mount Ephraim (Camden). The EF0 twister (winds near 70 mph) damaged some roofs, felled trees, and led to power outages. There were no reports of injuries. More rains fell on the 5<sup>th</sup>, particularly in coastal Ocean County. Official rainfall totals for this 3-day period included 9.05" in Woodland Township (Burlington), and in Ocean County 8.92" in Toms River, 8.79" and 7.62" in Berkeley Township, and 8.75" at Pine Beach.

The 6<sup>th</sup> brought West Cape May (Cape May) 1.22" and Middle Township (Cape May) 0.50". Scattered thunderstorms on the 7<sup>th</sup> saw Medford Lake (Burlington) receive 0.80" and Lebanon (Hunterdon) 0.70". A local storm in Demarest (Bergen) sparked a lightning strike that killed a local man. Tragically, this was the third lightning death of the year in New Jersey. Small hail fell from this cell in Harrington Park (Bergen).

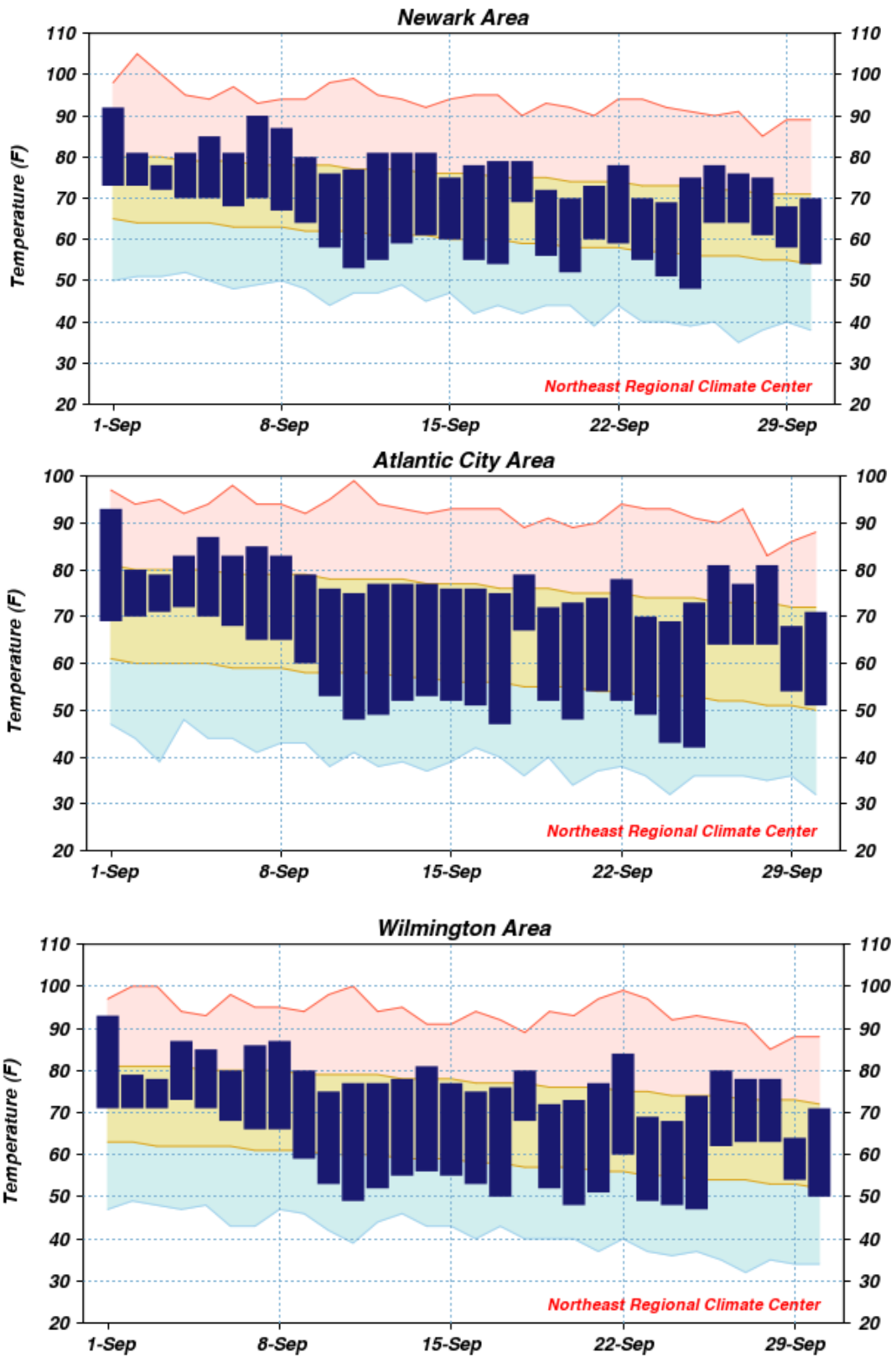
Separated by well over a week of almost completely dry weather (with several "top ten"-quality days), the next two significant rain events were the result of potent squall lines crossing the entire state. The first, during the late afternoon and early evening of the 8<sup>th</sup>, brought hail to River Vale (Bergen), tree-damaging winds to most counties, and 0.40"-0.60" of rain to much of the state. The heaviest rain fell in Haworth (Bergen) 1.42", West Caldwell (Essex) 1.37", Wayne (Passaic) 1.37", Howell (Monmouth) 1.30", and Medford Township (Burlington) 1.97". Winds gusted to 59 mph in Atlantic City (Atlantic), 49 mph at High Point Monument (Sussex), and 48 mph at Bivalve (Cumberland). Five other NJWxNet stations had gusts from 40-49 mph and seven from 30-39 mph.

The squall line on the 18<sup>th</sup> brought widespread wind damage, power outages, and heavy rain across NJ. Atlantic City again received a 59 mph gust, with Bivalve at 51 mph, and Point Pleasant (Ocean) and Woodstown (Salem) at 49 mph. Five other stations had gusts in the 40-49 mph range and seven between 30-39 mph. Rain from this late afternoon and evening onslaught added to totals earlier in the day, resulting in as much as 3.29" at High Point (Sussex), 3.21" in White Township (Warren), and 3.01" at Oxford Township (Warren). 41 CoCoRaHS stations reported 2.00"-2.99" and 142 observed 1.00"-1.99". There was a consistent reduction in rainfall from northwest to south east portions of the state, with the coastal south mostly seeing less than 0.50".

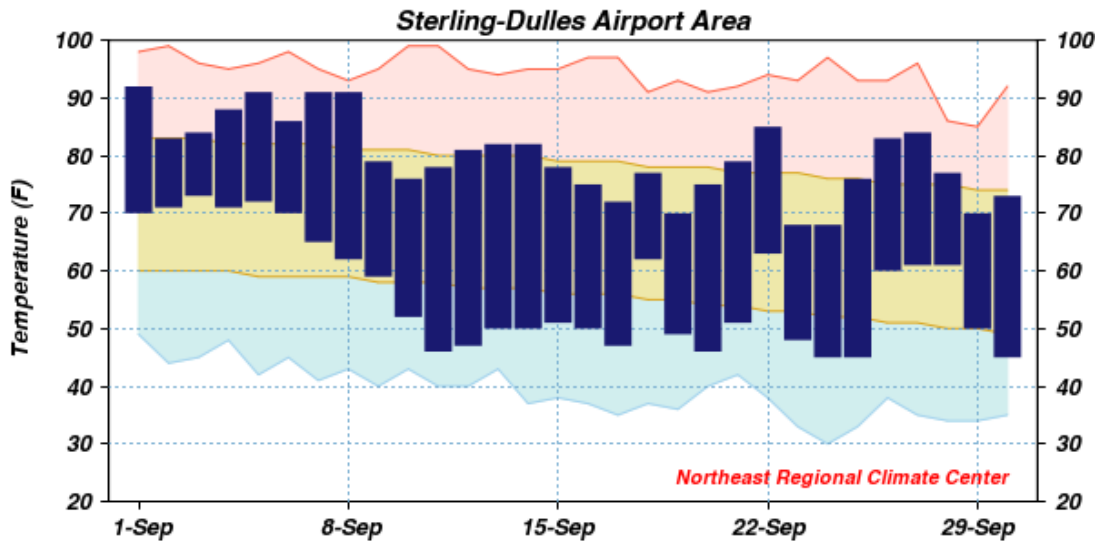
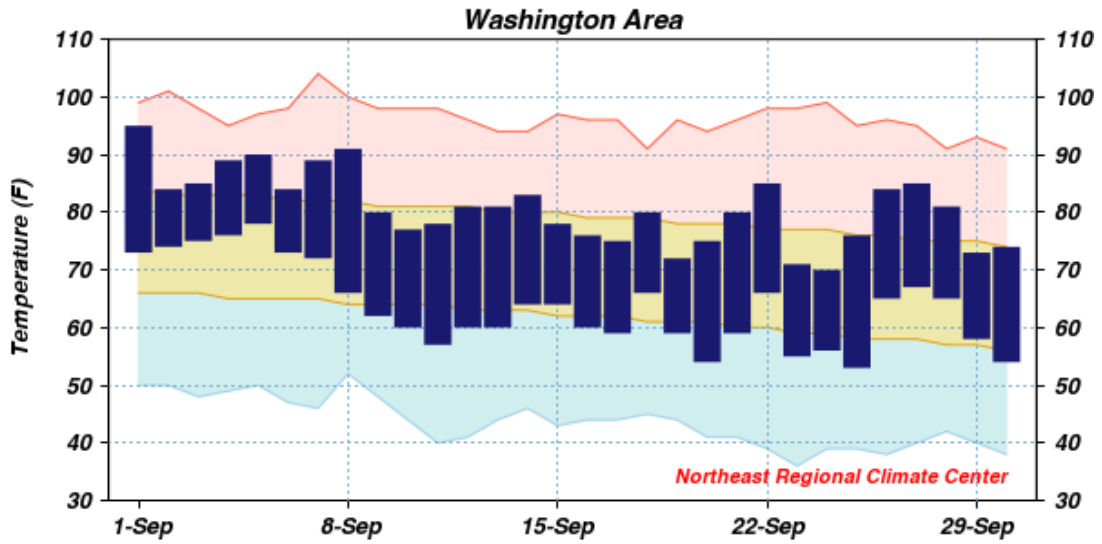
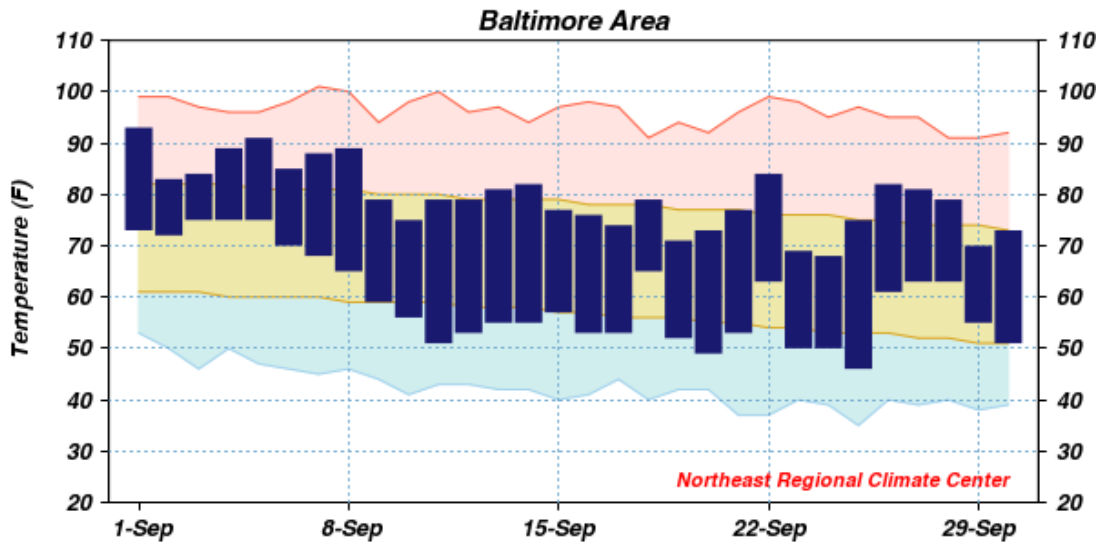
Inland southern locales received the most rain from a system on the 22<sup>nd</sup> into the early hours of the 23<sup>rd</sup>. The Burlington County communities of Mansfield 1.07", Burlington 0.95", and Moorestown 0.88" topped the list. A lengthy event from the morning of the 26<sup>th</sup> into the 27<sup>th</sup> brought scattered moderate totals in thundershowers to portions of central and southwestern NJ. Franklin Township (Somerset) received 0.60" and two South Plainfield (Middlesex) gauges caught 0.59" and 0.55". From late on the 27<sup>th</sup> into the morning of the 28<sup>th</sup> rain fell over the northern half of the state and in Cape May County. Jefferson Township (Morris) received 1.64", West Milford (Passaic) 1.18", and Hardyston Township (Sussex) 1.06". Quite localized showers sprang up on the afternoon of the 30<sup>th</sup>, one thunderstorm cell bringing pea size hail to Raritan (Somerset), Bound Brook (Somerset), and Edison (Middlesex). Some of this hail and 0.33" of rain quickly fell on a community fair in Raritan where several of us from the CoCoRaHS program were promoting our RAIN, HAIL and snow network!

The highest barometric pressure during September was observed on the 12<sup>th</sup> and 13<sup>th</sup>, ranging from the upper 30.30"s to low 30.40"s. Pressures were lowest, in the mid 29.50"s, on the 8<sup>th</sup>.

# DAILY AVERAGE TEMPERATURES AND THE 30-YEAR NORMAL

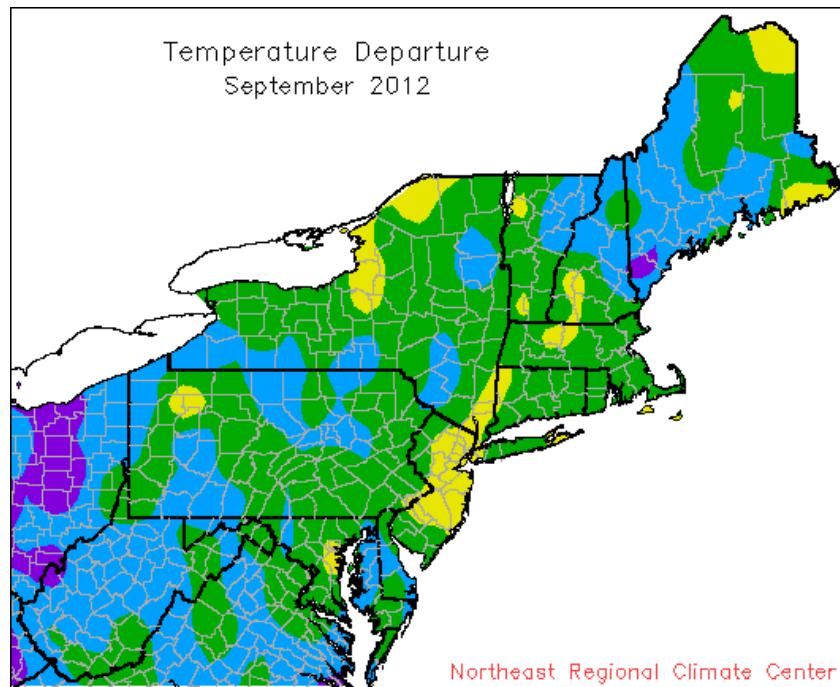
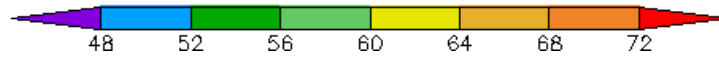
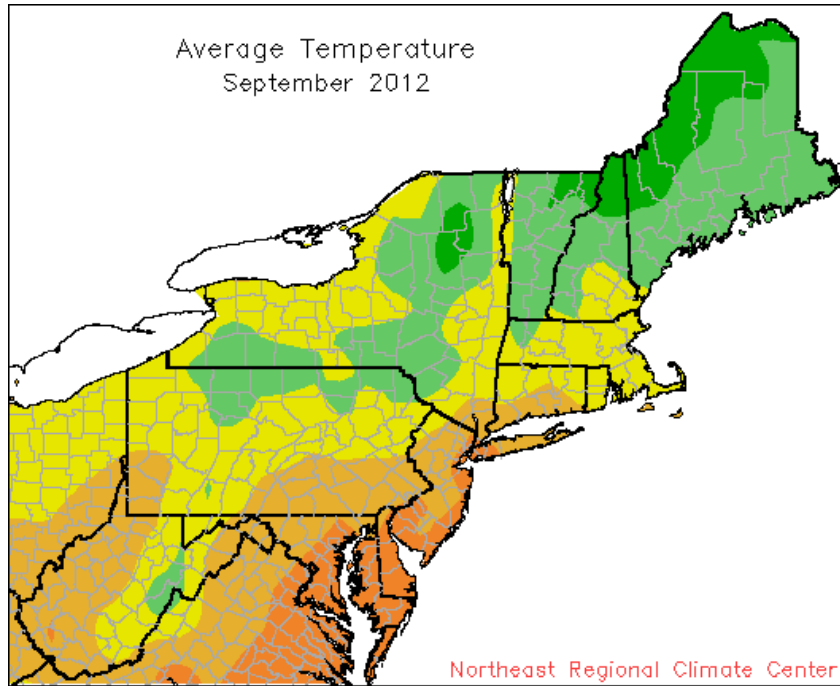




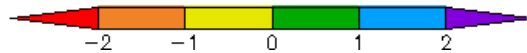
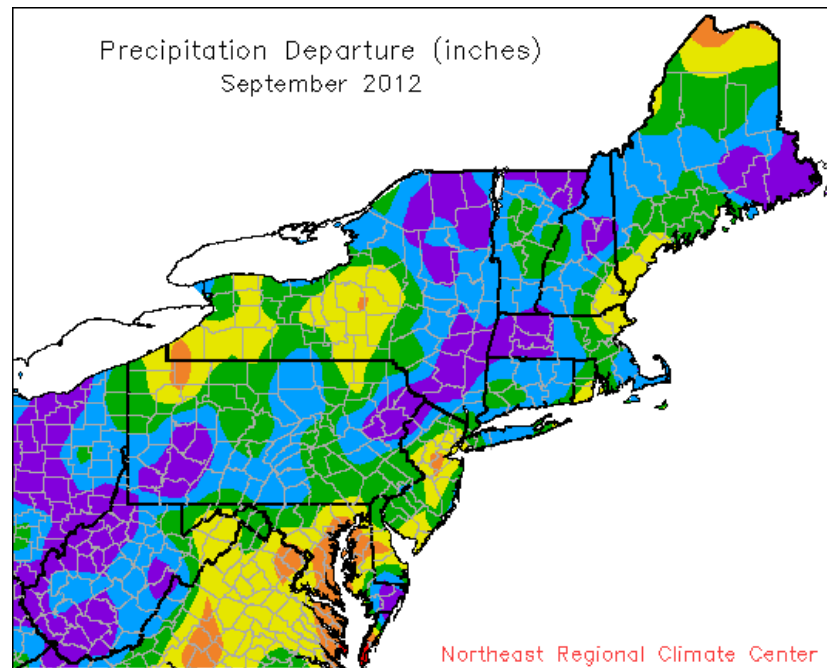
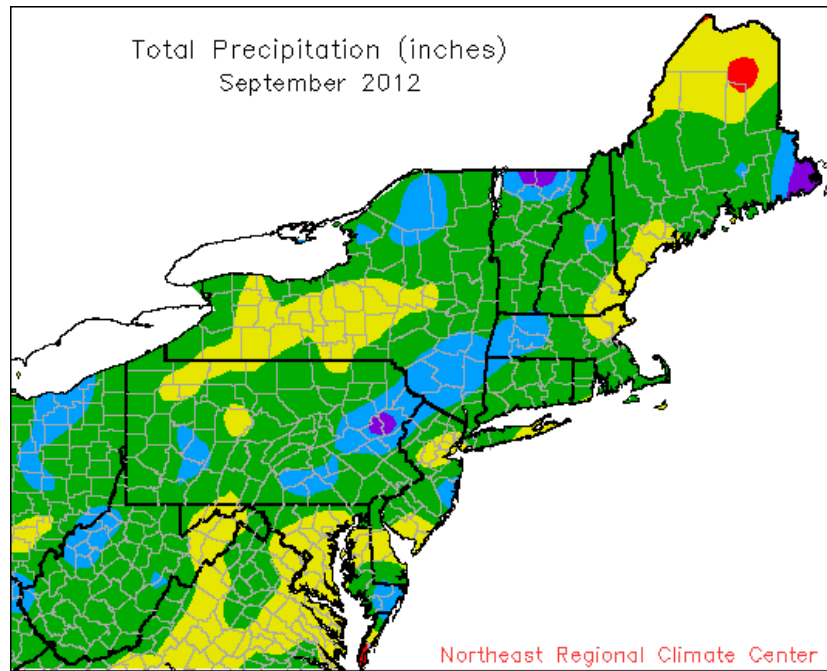


Area between normal max and min temperatures has tan shading.  
 Red line connects record high temperatures.  
 Light blue line connects record low temperatures.

# MONTHLY TEMPERATURE MAPS



# MONTHLY PRECIPITATION MAPS



# PRELIMINARY MONTHLY SUMMARIZED DATA SEPTEMBER 2012

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	90+ 90+	70- 70-	65+ 65+	50- 50-	MON TOT	DEPRT TOT	DAYS 0.1+	DLY MAX	DAY MAX	MON TOT	DLY MAX
-DE: NORTHERN-																			
BEAR 2 SW	77.5	56.8	67.1	0.6	91	1	43	25	1	5	9	11	5.59	0.96	8	2.34	3		0
WILMINGTON NEW CAS	78.0	58.5	68.2	0.4	93	1	47	25	1	3	9	7	5.29	0.97	7	2.26	3		0
WILMINGTON PORTER R	75.2	59.3	67.2	0.0	89	1	49	25	0	5	7	2	6.48	1.58	7	3.09	3		0
-DIVISION-			67.5	-0.1									5.79	1.16					
-DE: SOUTHERN-																			
DOVER	78.9	59.2	69.1	-0.6	90	1	48	24+	1	3	8	7							NM
-DIVISION-			69.1	0.4									3.39						
-STATE-			68.7	0.3									3.92	-0.29					0
-MD: SOUTHEASTERN-																			
SALISBURY WICOMICO	81.0	59.4	70.2	2.0	90	4+	46	25	2	1	8	5	7.74	3.76	9	2.39	6		0
SNOW HILL 4 N	81.1	56.5	68.8	-1.0	89	4+	41	24	0	0	7	10	7.45	3.05	8	3.77	6		NM
SALISBURY 2N	79.8	60.1	69.9		89	1	45	24	0	1	9	5	10.66		7	4.65	2		NM
-DIVISION-			69.6	0.2									8.62	4.54					
-MD: CENTRAL EAST-																			
ROYAL OAK 2 SSW	79.8	59.7	69.8	-0.4	89	4+	44	24	0	1	9	6	2.82	-1.19	6	1.11	2		NM
-DIVISION-			69.8	0.2									2.82	-1.03					
-MD: LOWER SOUTHE-																			
MECHANICSVILLE 5 N	75.8	56.4	66.1	-0.4	86	2	45	25+	0	5	6	11	1.64	-2.64	5	0.51	19		0
SOLOMONS	79.4	65.4	72.4	0.4	92	1	55	24	2	3	15	0	3.81		4	2.18	7		NM
-DIVISION-			69.3	1.1									2.73	-1.71					
-MD: UPPER SOUTHE-																			
BALTIMORE WASH INT	79.5	59.5	69.5	1.7	93	1	46	25	2	3	9	4	2.21	-1.82	5	0.60	18		0
BELTSVILLE	79.8	58.3	69.1	0.7	94	1	43	25	5	4	8	7	2.41	-1.67	6	0.69	9		0
DALECARLIA RSVR	79.0	59.1	69.1	-0.6	95	2+	49	20	2	3	8	5	3.18	-0.99	7	0.86	9		0
LAUREL 3 W	80.1	61.0	70.6	1.2	93	1	50	25	4	2	10	1	2.16	-2.44	6	0.90	18		NM
MD SCI CTR BALTIMO	82.4	66.2	74.3	2.3	95	1	55	25	5	0	16	0	3.00	-1.09	6	1.31	2		NM
NATL ARBORETUM DC	82.6	59.8	71.2	0.9	96	1	48	30+	6	1	8	3	3.75	-0.01	7	1.05	3		NM
OXON HILL	80.2	59.1	69.7	0.0	95	1	49	30+	3	3	8	6	4.68	0.55	8	1.27	2		0
UPPER MARLBORO 3 N	80.9	57.1	69.0	1.2	96	1	45	25	3	2	8	9	3.48	-0.51	8	0.86	19		NM
-DIVISION-			70.3	1.6									3.11	-1.01					
-MD: NORTHEASTERN-																			
STEVENSVILLE	78.2	60.1	69.2	-0.4	90	2+	50	21	2	4	9	1	3.85		7	1.12	19		0
-DIVISION-			69.2	0.8									3.85	-0.54					
-MD: NORTHERN CEN-																			
ABERDEEN PHILLIPS	78.9	57.4	68.1	0.3	92	1	44	25	2	3	9	10	2.14	-2.38	5	0.62	9		0
BRIGHTON DAM	77.0	55.2	66.1		89	1	41	25	0	6	7	13							0
CONOWINGO DAM	76.3	56.2	66.3	-2.7	89	1	44	26+	0	4	8	10	4.14	-0.81	8	1.30	19		NM
CYLBURN	75.4	57.5	66.5	0.9	88	8	45	26+	0	7	9	8							NM
DAMASCUS 3 SSW	75.3	57.0	66.1	0.4	87	7+	45	25+	0	7	8	8	3.02	-1.49	8	1.33	18		NM
EMMITSBURG 2 SE	75.9	53.6	64.8	-0.3	89	1	42	26+	0	5	7	16	6.41	2.17	6	3.55	19		0
MILLERS 4 NE	76.1	55.8	66.0	1.1	89	7	42	20	0	5	9	11	5.26	0.79	6	2.19	3		0
SMITHSBURG	76.6	51.7	64.1	-1.2	90	1	40	26+	1	5	6	18	4.43	0.39	7	1.85	19		0
-DIVISION-			66.0	-0.6									4.23	-0.08					
-MD: APPALACHIAN -																			
CUMBERLAND 2	80.5	53.3	66.9	-0.5	96	1	38	26+	5	5	7	16	3.05	-0.18	5	1.45	18		NM
FROSTBURG 2	72.3	50.7	61.5	0.5	86	8+	38	26+	0	14	5	17	3.75	0.07	7	1.47	18		NM
SHARPSBURG 5 S	78.3	52.6	65.5	-0.1	92	1	41	26+	4	4	7	17							NM
WILLIAMSPORT *	80.0	54.2	67.1	0.5	94	1	39	24											0
-DIVISION-			65.3	1.0									3.40	-0.12					
-MD: ALLEGHENY PL-																			
SAVAGE RIVER DAM	73.7	50.1	61.9	-0.1	88	1	35	26+	0	10	5	18	3.57	0.25	6	1.18	18		NM
SINES DEEP CREEK	70.2	45.8	58.0		84	1	31	26+	0	16	2	22	4.37		8	1.03	18		NM
KITZMILLER 1 W	74.5	50.8	62.6		88	1	36	26+	0	11	5	18							NM
-DIVISION-			60.8	0.1									3.97	0.51					
-STATE-			67.4	0.2									4.21	0.11					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	90+ MAX	70- MIN	65+ MAX	50- MIN	MON TOT	DEPRT 0.1+	DAYS MAX	DLY MAX	DAY MAX	MON TOT	DLY MAX
-NJ: NORTHERN-																			
BELVIDERE BRG *	75.6	52.3	63.9	-0.4	91	2	40	26+					6.18	1.85	8	1.57	19	NM	
BOONTON 1 SE	77.4	54.9	66.2	1.7	91	2	41	26+	2	5	5	11	4.17	-0.33	8	1.14	19		0
BOUND BROOK 2 W													3.59	-0.52	8	0.89	19	NM	
CANISTEAR RESERVOI													6.42	1.80	8	1.75	19		0
CANOE BROOK	77.1	56.5	66.8	1.6	91	2	44	25	2	5	6	9	4.61	-0.28	9	1.52	19		0
CHARLOTTEBURG RSV*	74.2	53.5	63.8	0.6	88	2	42	26											0
CHATHAM 2 W	79.7	54.8	67.3	2.0	96	1	44	26+	3	1	5	11							0
CRANFORD	78.6	57.2	67.9	1.9	93	2	41	25	3	2	7	7	3.07	-1.38	8	0.83	19		0
FLEMINGTON 5 NNW	77.7	53.9	65.8	1.2	91	2	39	25	1	4	5	13	3.89	-0.42	7	1.21	19	NM	
HARRISON	78.0	59.7	68.9	0.7	93	1	48	25	2	3	10	1	3.51	-0.81	10	0.87	19	NM	
LAMBERTVILLE													3.55	-0.83	7	0.98	4	NM	
NEWARK INTL AP	77.9	61.1	69.5	1.3	92	1	48	25	2	5	9	1	3.13	-0.69	6	0.94	4		0
OAK RIDGE													5.47	0.65	8	1.52	19		0
PHILLIPSBURG EASTO	76.9	54.6	65.8	1.0	91	2	41	25	2	3	5	13	5.21		10	1.71	19		0
POTTERSVILLE 2 NNW	72.9	55.9	64.4		83	2+	42	25	0	9	6	9	4.75	0.06	9	1.13	19	NM	
RINGWOOD	78.2	53.0	65.6		94	1	39	25	3	5	5	12						NM	
SUSSEX 2 NW	74.2	51.5	62.9	1.3	89	1	38	25	0	12	3	15	8.88	4.44	8	3.44	5		0
WAYNE *	77.7	58.0	67.9		90	2+	45	25	4	6	7	8	4.67		8	1.51	9		0
WERTSVILLE 4 NE	76.4	54.9	65.7	1.3	88	8+	41	26+	0	4	7	12	2.80	-1.49	8	0.95	19	NM	
RIEGELSVILLE													4.08		6	1.52	19		0
TOCKS ISLAND	73.9	53.8	63.8		88	1	42	26	0	10	4	12						NM	
-DIVISION-			66.0	1.5									4.57	0.08					
-NJ: SOUTHERN-																			
ATLANTIC CITY INTL	77.6	57.3	67.4	0.2	93	1	42	25	1	3	9	7	3.52	0.37	6	1.18	3		0
ESTELL MANOR	78.8	55.6	67.2	0.9	90	2+	41	25	2	3	8	13	2.21	-1.24	8	0.41	19	NM	
FREHOLD MARLBORO	78.4	56.9	67.6	1.2	90	1	44	25	1	4	7	6	2.85	-1.07	7	1.18	19	NM	
HAMMONTON 1 NE	79.1	57.1	68.1	1.4	92	2+	44	26	2	3	8	7	3.77	-0.30	8	1.05	4		0
HIGHTSTOWN 2 W	78.6	54.1	66.4	0.7	90	1	40	25	1	4	6	12	2.98	-1.15	7	1.42	19		0
INDIAN MILLS	78.0	55.7	66.9	0.8	91	1	40	24	1	2	8	10	9.75	5.66	7	5.92	4		0
MAYS LANDING 1 W													3.30		5	1.75	4	NM	
MILLVILLE MUNI AP	77.9	55.7	66.8	0.1	90	1	42	25+	1	3	8	15	2.88	-0.28	5	0.72	3	NM	
MOORESTOWN *	79.6	59.6	69.6	2.2	92	1	45	25										NM	
NEW BRUNSWICK 3 SE	79.3	56.6	68.0	1.8	93	2	42	25	3	2	7	8	2.99	-1.52	9	0.79	19		0
SEABROOK FARMS	79.3	60.0	69.6	1.0	92	1	47	24	2	3	10	4	4.11	-0.15	7	1.63	19		0
SOMERDALE 4 SW	75.7	55.2	65.5		90	2+	42	25	2	6	6	13	4.80	1.26	9	1.62	19	NM	
ATSION *	78.0	54.8	66.6		90	1	38	25					7.15		7	3.80	4	NM	
TRENTON MERCER CO	76.5	57.9	67.2	1.0	90	1	43	25	1	5	9	7	2.46	-1.81	5	0.69	18+	NM	
PHILADELPHIA MT HO	77.9	57.2	67.6		92	1	43	25	2	4	8	9	5.94		9	2.04	5		0
-DIVISION-			67.5	0.8									4.26	0.39					
-NJ: COASTAL-																			
ATLANTIC CITY	74.7	65.7	70.2	1.1	91	1	54	24	1	6	15	0	2.86	-0.22	7	0.99	5		0
BRANT BEACH HVN	76.8	64.3	70.6	1.7	90	1	54	24	1	3	13	0	5.03	2.25	4	2.38	6	NM	
CAPE MAY 2 NW	78.1	60.3	69.2	0.0	89	1	49	25+	0	2	11	2	2.91	-0.36	8	1.07	6		0
LONG BRANCH OAKHUR	76.7	58.8	67.7	0.8	91	1	46	25	2	2	9	6	6.15	2.53	7	1.62	19	NM	
-DIVISION-			69.4	1.0									4.24	0.90					
-STATE-			67.1	1.1									4.37	0.31					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 SEPTEMBER 2012

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	60	4	60	3	128	29	1223	214	518	24	3628	398
WILMINGTON NEW CAST	41	-9	41	-11	143	9	1361	234	552	18	3814	417
WILMINGTON PORTER RS	42	-13	42	-15	117	-5			525	7	3685	382
-DE: SOUTHERN-												
DOVER	33	1	33	0	162	-11	1483	202	579	-12	3998	352
-MD: SOUTHEASTERN SHORE-												
SALISBURY WICOMICO	19	-27	19	-29	184	42	1662	537	615	69	4263	838
SNOW HILL 4 N	33	-1	33	-2	153	-23			570	-23		
SALISBURY 2N	24		24		177				603		4164	
-MD: CENTRAL EASTERN SHORE-												
ROYAL OAK 2 SSW	24	-4	24	-5	175	-9	1617	232	601	-5	4272	453
-MD: LOWER SOUTHERN-												
MECHANICSVILLE 5 NE	70	4	70	1	111	0			491	-5		
SOLOMONS	7	-5	7	-5	236	14	1708	186	679	19	4362	384
-MD: UPPER SOUTHERN-												
BALTIMORE WASH INTL	28	-24	28	-25	170	35	1541	396	592	59	4121	688
BELTSVILLE	42	-7	42	-9	170	20	1409	192	578	27	3929	411
DALECARLIA RSVR	32	-5	32	-7	160	-18	1492	115	578	-13	4094	313
LAUREL 3 W	16	-19	16	-20	192	24	1628	264	626	42	4259	512
MD SCI CTR BALTIMOR	1	-17	1	-17	287	58			736	75		
NATL ARBORETUM DC	17	-17			211	20			644	36		
OXON HILL	29	1	29	1	177	9	1572	215	598	9	4174	392
UPPER MARLBORO 3 NN	37	-17	37	-20	165	25	1487	313	578	42	4030	551
-MD: NORTHEASTERN SHORE-												
STEVENSVILLE	21	4	21	4	153	0	1469	265	582	-4	4016	459
-MD: NORTHERN CENTRAL-												
ABERDEEN PHILLIPS F	47	-4			148	13			551	17		
BRIGHTON DAM	68				109				491			
CONOWINGO DAM	67	31	67	30	111	-46			494	-78	3483	-104
CYLBURN	69	2			120	33			501	31		
DAMASCUS 3 SSW	72	-2	72	-8	114	21			492	21		
EMMITSBURG 2 SE	95	9	95	2	96	8	966	118	451	-2	3321	325
MILLERS 4 NE	72	-12	72	-19	108	27	1059	274	486	38	3533	585
SMITHSBURG	114	40			98	16			434	-24		
-MD: APPALACHIAN MOUNTAIN-												
CUMBERLAND 2	79	19	79	17	140	8	1240	83	511	-12	3719	233
FROSTBURG 2	165	8	176	-32	69	31	550	146	355	16	2689	410
SHARPSBURG 5 S	88	14	88	8	109	17			471	2	3372	334
-MD: ALLEGHENY PLATEAU-												
SAVAGE RIVER DAM	154	17			67	20			365	0		
SINES DEEP CREEK	240				37				262			
KITZMILLER 1 W	145		145		80				386			

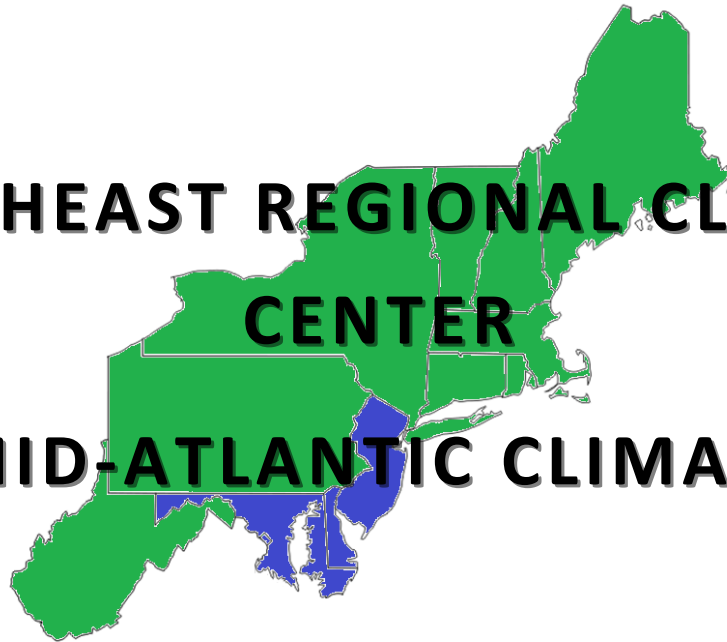
STATION	HEATING DEGREE DAYS (BASE 65)				COOLING DEGREE DAYS (BASE 65)				GROWING DEGREE DAYS (BASE 50)			
	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON
-NJ: NORTHERN-												
BOONTON 1 SE	65	-28	66	-35	107	27			492	54	3390	508
CANOE BROOK	54	-30	55	-37	115	24			511	52		
CHATHAM 2 W	46	-29			120	37			524	65		
CRANFORD	38	-34			134	32			546	65		
FLEMINGTON 5 NNW	67	-26	68	-36	101	20			484	44		
HARRISON	25	-16			147	12			572	27		
NEWARK INTL AP	20	-24	20	-25	160	20	1431	257	590	44	3924	491
PHILLIPSBURG EASTON	67	-14			97	22			480	33		
POTTERSVILLE 2 NNW	70		72		60		752		440		3064	
RINGWOOD	80		82		105				475			
SUSSEX 2 NW	124	-24	131	-47	66	20			392	39		
WERTSVILLE 4 NE	71	-23			98	23			477	44		
TOCKS ISLAND	98		100		70		832		422		3082	
-NJ: SOUTHERN-												
ATLANTIC CITY INTL	48	-11	48	-14	128	3	1187	153	530	14	3575	352
ESTELL MANOR	61	-7	61	-10	136	29	1178	218	525	35	3539	392
FREEHOLD MARLBORO	41	-25	41	-29	128	22			537	46		
HAMMONTON 1 NE	41	-23	41	-26	141	26	1294	240	550	49	3705	447
HIGHTSTOWN 2 W	67	-12			117	16			500	26		
INDIAN MILLS	56	-19	56	-24	120	13			514	30	3585	464
MILLVILLE MUNI AP	66	3			128	15			512	12		
NEW BRUNSWICK 3 SE	41	-30	41	-34	141	34	1196	255	550	63	3582	493
SEABROOK FARMS	25	-20	25	-21	171	20			596	39		
SOMERDALE 4 SW	78		78		102		1234		474		3547	
TRENTON MERCER CO A	46	-16	46	-19	122	23	1219	264	526	38	3713	579
PHILADELPHIA MT HOL	51		51		136		1253		535		3648	
-NJ: COASTAL-												
ATLANTIC CITY	6	-21	6	-22	170	18	1236	237	614	40	3657	463
BRANT BEACH HVN	10	-21	10	-22	185	36			625	57		
CAPE MAY 2 NW	21	-11	21	-12	155	-4	1321	259	584	7	3781	484
LONG BRANCH OAKHURS	36	-21	36	-25	124	12			538	32		

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