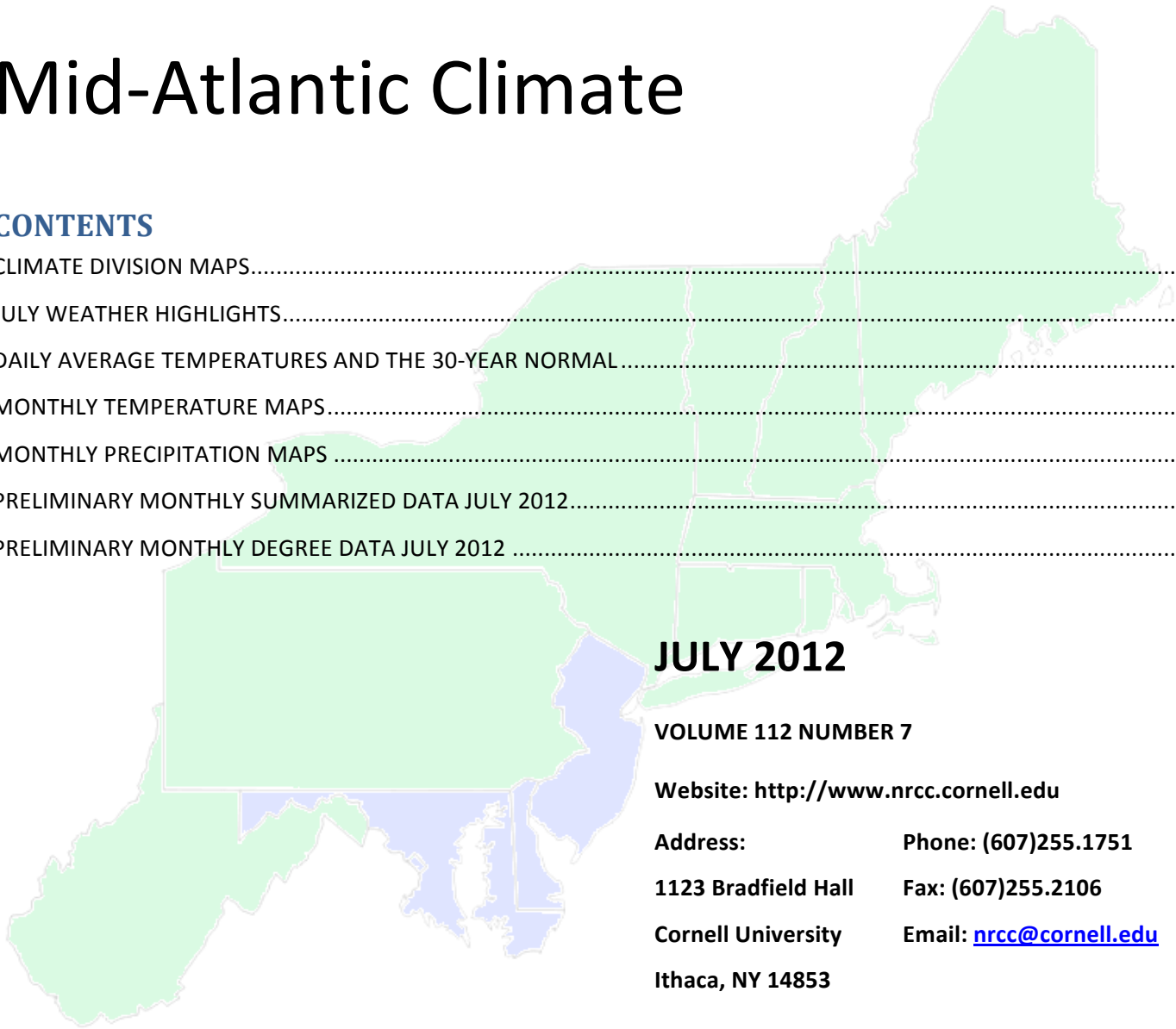


Northeast Regional Climate Center

Mid-Atlantic Climate

CONTENTS

CLIMATE DIVISION MAPS.....	1
JULY WEATHER HIGHLIGHTS.....	2
DAILY AVERAGE TEMPERATURES AND THE 30-YEAR NORMAL.....	8
MONTHLY TEMPERATURE MAPS.....	10
MONTHLY PRECIPITATION MAPS	11
PRELIMINARY MONTHLY SUMMARIZED DATA JULY 2012.....	12
PRELIMINARY MONTHLY DEGREE DATA JULY 2012	14



JULY 2012

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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

JULY WEATHER HIGHLIGHTS

After a cooler-than-normal June, temperatures were back in the warmer-than-normal range in July. The regional average of 79.0 degrees F was 3.4 degrees above normal. This month's average tied July 2010 as the third warmest July since 1895. It was the warmest July in 118 years in Maryland, the 2nd warmest July in Delaware, and the 5th warmest in New Jersey. State temperature departures were +3.2 degrees in New Jersey, +3.3 degrees in Maryland and +3.9 degrees in Delaware. The mercury soared into the triple digits at many locations during the month. Upper Marlboro, MD topped the list, with a high of 105 degrees on the 8th. Once again, Sines Deep Creek, MD (Allegheny Plateau) was the cool spot, with a low of 51 degrees on the 10th and 11th.

This was the seventh consecutive month with below normal precipitation. The regional total of 3.71 inches was 86% of normal. This month's total was 0.26 inches more than July 2011 and 0.38 inches less than July 2010. Rainfall totals in each of the three states averaged below normal – Maryland was closest to normal with 96%, New Jersey averaged 78% and Delaware had 71% of the normal July precipitation amount. The only climate divisions to average wetter-than-normal were Maryland's Northern Eastern Shore (130%) and Northern Central (129%) divisions. The Northern Central division was home to the wettest location this month, Frederick, MD, with a monthly total of 8.29 inches.

Drought conditions worsened during July. According to the July 31, 2012 U.S. Drought Monitor, the southern half of Delaware and southeastern Maryland were experiencing severe (D2) drought conditions. New Jersey saw an expansion of D0 (abnormally dry) conditions in western and central parts of the state.

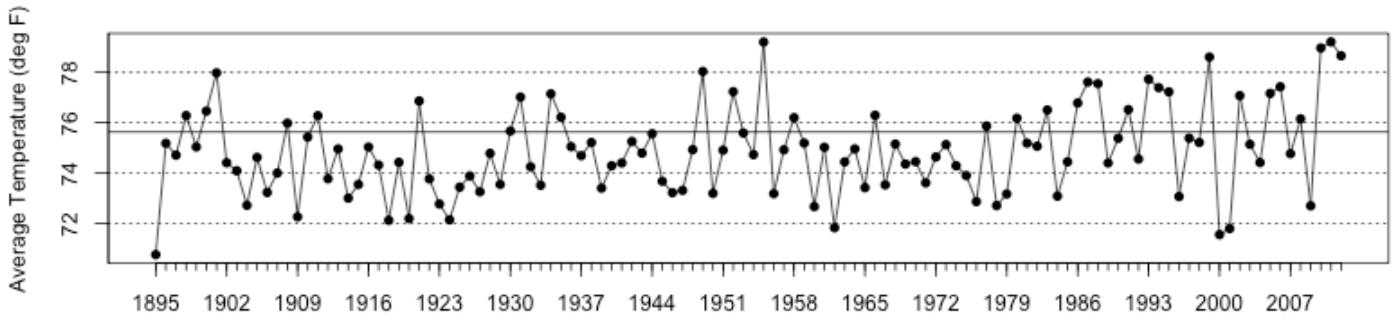
Daily Maximum Temperature Records (°F)

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Washington Dulles, DC	1	96	94 in 1968
Washington Dulles, DC	7	101	101 in 2010
Washington National, DC	7	105	102 in 2010
Baltimore, MD	7	103	101 in 2010
Atlantic City, NJ	7	100	98 in 2010
Washington Dulles, DC	8	101	100 in 1993
Washington National, DC	8	102	100 in 1993
Baltimore, MD	8	100	100 in 1993
Atlantic City, NJ	17	99	97 in 2006
Newark, NJ	17	100	100 in 1997
Wilmington, DE	18	101	100 in 1953
Washington Dulles, DC	18	101	100 in 1986
Baltimore, MD	18	104	102 in 1887
Atlantic City, NJ	18	101	99 in 2006
Newark, NJ	18	104	100 in 1982
Washington Dulles, DC	26	98	98 in 1966

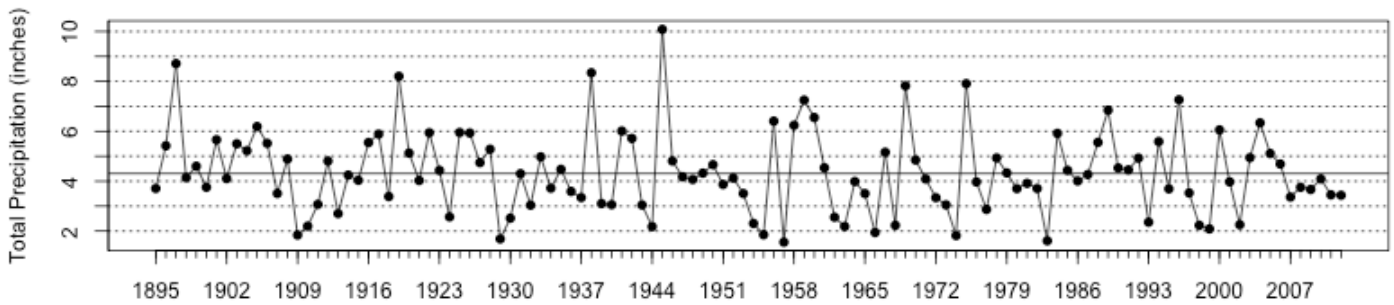
Daily Precipitation Records (inches)

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Atlantic City, NJ	28	2.05	1.79 in 1914

Mid Atlantic Average July Temperatures



Mid Atlantic July Precipitation Totals



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

Another Hot July: 2012 Summary

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

July 2012 was a hot one in New Jersey. With an average temperature of 78.0° (+3.0°) it was the 5th warmest since statewide observations commenced in 1895. Remarkably, it was the "coolest" of the past three Julys, as 2011 ranked 2nd and 2010 came in 3rd (table 1). Seven of the 10 warmest Julys of the past 118 years have occurred since 1993. Continuing warmth throughout the year has made the first seven months of 2012 the warmest such period on record (table 2). Eight of the 10 warmest first seven months of the year have been since 1990. With all but one or two reports in for June, it looks as if that month will average exactly the same as the 1981-2010 average temperature. This ends the streak of 16 consecutive above average months, however it can still be said that NJ has gone 18 consecutive months (and 26 of the past 29) without a below average monthly reading.

Rank	Year	July Avg Temp
1	1955	79.0°
2	2011	78.8°
3	2010	78.7°
4	1999	78.4°
5	2012	78.0°
6	1949	77.8°
7	2006	77.3°
8	1994	77.1°
9	1901	77.0°
10	1993	76.9°

Table 1. The ten warmest Julys across New Jersey since 1895.

Rank	Year	Jan-Jul Avg Temp
1	2012	55.7°
2	1998	54.7°
3	2010	54.5°
4	2002	54.4°
5	1949	54.2°
6	1991	54.0°
7	2006	54.0°
8	1921	53.7°
9	1990	53.4°
10	2008	53.4°

Table 2. The ten warmest January-July intervals across New Jersey since 1895.

The heat was on for most of the month. On 22 days, at least one of the 54 NJ stations in the NJ Mesonet or NJ SafetyNet reached 90° for a maximum temperature. Half of these days saw one or more stations top out at 95° or higher, with the century mark being reached on two days. The 1st saw Mansfield (Burlington County), Red Lion (Burlington) and Hillsborough (Somerset) reach 97°. Four stations got to 95° on Independence Day. 24 stations were at least 95° on the 5th, with Mansfield at 98°. Mansfield and Cherry Hill (Camden) again got to 98° on the 6th. The 7th was the second hottest day of July with Mansfield up to 102° and four stations at 101° and five at 100°. Cooler conditions prevailed at High Point Monument (Sussex), which only got to 82°. The heat wave that began on June 28th ended on the 8th, when Hawthorne (Passaic) reached 95°. The 11 consecutive days of 90° plus heat at New Brunswick ties

with three other episodes as the second longest such run since records commenced in 1893. Only a 12-day run from July 23rd to August 3rd, 1999 was longer.

The 17th and 18th were two very hot days. Jersey City (Hudson), Hillsborough and Egg Harbor (Atlantic) reached 99° on the 17th, with only Bivalve's (Cumberland) 86° and Harvey Cedars' (Ocean) 88° below 90°. The 18th was the hottest day since July 22, 2011. Newark Airport (Essex) led the way with 104°, followed closely by 103° at Jersey City, Hawthorne and Haworth (Bergen). 26 of the 54 Mesonet and SafetyNet stations reached the century mark, with 11 National Weather Service Cooperative stations also making it to 100° or higher. Only 6 stations were under 95°, with Atlantic City Marina's (Atlantic) 88° and Bivalve's 89° the "coolest". Walpack (Sussex) was the coolest station on the morning of the 18th at 67° but got up to 100° that afternoon.

Rounding out the 95° or hotter days, the 24th brought a 97° maximum to Red Lion and Egg Harbor, with Sicklerville (Camden), Red Lion, and Greenwich (Cumberland) up to 95° on the 26th.

On seven July mornings one or more locations across NJ fell to 55° or cooler. On the first four occasions it was the northwest valley pair of Walpack and Pequest (Warren) that were the coolest with 51° and 54°, respectively on the 2nd, 51° and 53° on the 3rd, 49° and 51° on the 6th and 49° and 52° on the 10th. Walpack sat alone at 54° on the 12th. Statewide, the 22nd was the coolest morning of July with 20 stations in the 50°'s. Berkeley Township (Ocean) at 54° and Howell (Monmouth) with 55° were coolest. Of the one remaining 55° or cooler morning, Walpack fell to 51° on the 25th.

There were several very warm nights during the month. West Cape May (Cape May) and Dennis Township (Cape May) both got no lower than 80° on the 4th and 5th. The 18th brought an 81° minimum to Dennis Township, 80° to Egg Harbor, with only Walpack's 67° and Pequest's 68° below 70°. Only on the 21st and 22nd did every network station in the state fall below 70°.

As often seen in summer months, precipitation across New Jersey varied widely in July 2012. On average, 3.71" fell, which is 0.81" below the 1981-2010 average. This ranks as the 38th driest since 1895. Rainfall totaled 8.14" at a Community Collaborative Rain, Hail and Snow network station in Brick Township (Ocean) to take top honors in NJ. However another station in Brick totaled only 4.03" for the month. Other hefty totals included 7.32" at Andover (Sussex), 6.35" in Blairstown (Warren) and 6.06" at Allamuchy (Warren). On the dry end, only 0.97" fell in Winslow Township (Camden), followed by 1.18" in Estell Manor (Atlantic), 1.66" at Stratford (Camden) and 1.71" in Elk Township (Gloucester). Clearly, it was the southwest portion of NJ that was driest during July, with this negatively impacting unirrigated corn and soybean fields in this sandy soil region.

Given the dry start to 2012 and the absence of a very wet month thus far, the year through July ranks as the 13th driest on record. This is 5.63" or 21% below average, and is the driest such interval since 1995.

Rank	Year	Jan-Jul Tot Prcp
1	1955	17.55"
2	1957	17.72"
3	1954	17.84"
4	1963	18.12"
5	1965	18.12"
6	1966	19.13"
7	1995	19.97"
8	1985	20.55"
9	1930	20.84"
10	1977	20.90'
11	1927	21.28"
12	1926	21.44"
13	2012	21.54"
14	1992	21.71'
15	1905	22.18"
16	2002	22.22'

17	1904	22.34"
18	1976	22.34"
19	1923	22.48"
20	1970	22.83"

Table 3. The 20 driest January-July intervals across New Jersey since 1895.

There were numerous days throughout July with thunderstorms scattered throughout NJ. Despite this, it wasn't until the 15th that a widespread rainfall was observed. The 1st saw thunderstorms in some northern and coastal locations. Rainfall totaled 0.57" in Stafford Township (Ocean) and 0.37" at Charlotteburg (Passaic). Hail up to an inch in diameter was observed in Blairstown, Oakland (Bergen) and Ocean City (Cape May). Late on the 4th into the 5th thunderstorms brought 0.92" to Washington Township (Mercer) and 0.94" to Cream Ridge (Monmouth). Strong winds brought down trees in portions of Ocean and Monmouth counties. The first week of the month saw residences and businesses across the southern third of the state continue to have power restored following the massive derecho wind storm of late June 29th and early on the 30th. Dry conditions in Burlington County resulted in a 220 acre brush fire in Waterford Township on the 5th.

Evening storms in Monmouth and Ocean counties on the 7th brought 0.54" to Toms River (Ocean) and 0.65" to Lavallette (Ocean). Trees blew down, with gusts reported up to 78 mph at Brick, 60 mph at Beachwood and 47 mph at Point Pleasant Beach, all in Ocean County. Tragically, a woman was struck by lightning while standing on the sea wall in Monmouth Beach (Monmouth) and later died. Storms that day also toppled trees in portions of Hunterdon and Somerset counties, and a 46 mph gust was observed at High Point Monument (Sussex).

The morning of the 9th saw Cape May County receive as much as 0.74" in Woodbine and 0.70" at Cape May Court House. Portions of Warren County and the counties bordering New York State received up to 0.74" at White Township (Warren) and 0.66" in Ringwood (Passaic) overnight from the 11th into the 12th. Afternoon storms brought 0.49" to Sicklerville (Camden) and 0.32" to both Merchantville (Camden) and Ewing Township (Mercer) on the 14th. The first widespread rain of July gave central and far northwest areas about an inch and most other locations 0.25"-0.50" (with little in the extreme south) on the evening of the 15th. 1.63" fell at High Point Monument (Sussex), with 1.39" at both Lake Como (Monmouth) and Jackson Township (Ocean). A 61 mph gust toppled trees in Brick (Ocean), with reports of damage also in Middlesex and Burlington counties.

The heat of the 18th was broken in the late afternoon into the evening with strong storms across many areas. Isolated pockets of heavy rain were found in northern Warren and southern Sussex counties with 2.47" at Pequest and 2.16" and 2.18" at stations in Liberty Township, all in Warren County. Mansfield (Burlington) received 1.71". Scattered 0.50"-1.00" totals were seen in central and northern areas with considerably less in the south. These storms brought a 60 mph gust to Perth Amboy (Middlesex) and 46 mph gust at Sea Girt (Monmouth), with trees down and power out in sections of seven counties. Hail from 0.25" to almost an inch in diameter fell in parts of Burlington, Middlesex and Monmouth counties.

An isolated late afternoon storm skimmed Bivalve (Cumberland) along Delaware Bay on the 19th, depositing 0.75". Morning storms brought heavy rain to Cape May County on the 20th with 3.00" in Upper Township and 2.98" at Woodbine. Further up the coast, 3.74" swamped West Creek (Ocean) and Egg Harbor Township (Atlantic) received 2.88".

Northern Warren and southern Sussex counties were again deluged on the 23rd. Walpack (Sussex) received 3.54" and a 45 mph gust, Blairstown (Warren) 1.95" and Andover (Sussex) 1.92". Up to 1.00"-1.50" fell in parts of Morris and Somerset counties, with half inch hail falling in a few locations. Trees were down and power out in some areas. The 24th saw storms visit the dry southwest. Franklin and Elk townships in Gloucester County, welcomed 1.64" and 0.91", respectively and a gust to 48 mph was observed at Bivalve (Cumberland). Late on the 26th into the 27th strong storms downed trees in eight northern and central counties. One tree fell onto a home in Rockaway (Morris), injuring several individuals. High Point Monument had a gust of 53 mph. Rain was widespread, with around an inch in the southwest over to southern Ocean County. Elsewhere, 0.25"-0.50" totals were common, although none fell in Cape May County. 1.30" was measured at Pitman and 1.24" in Pittsgrove, each in Gloucester County.

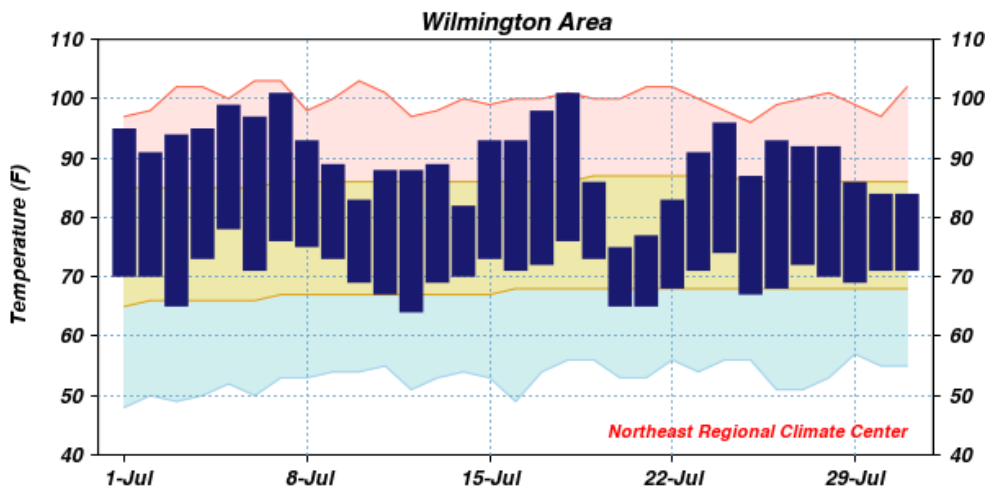
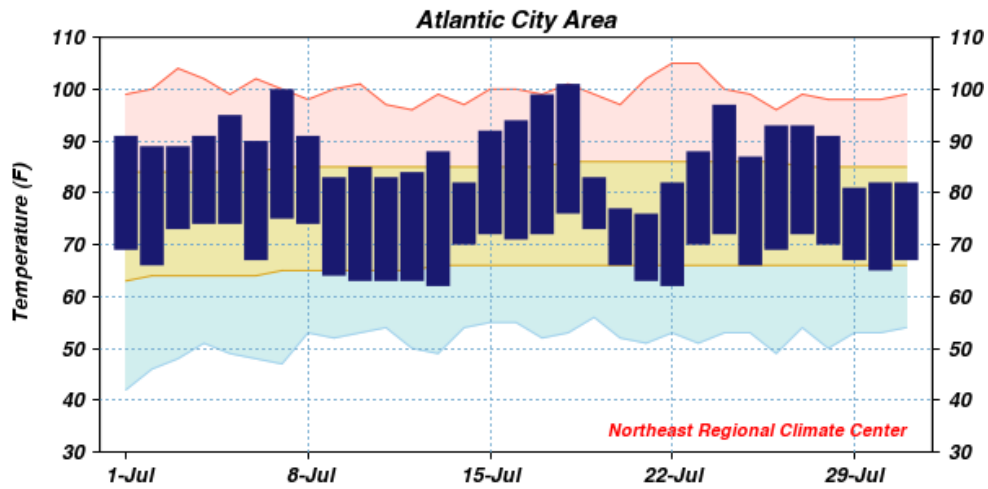
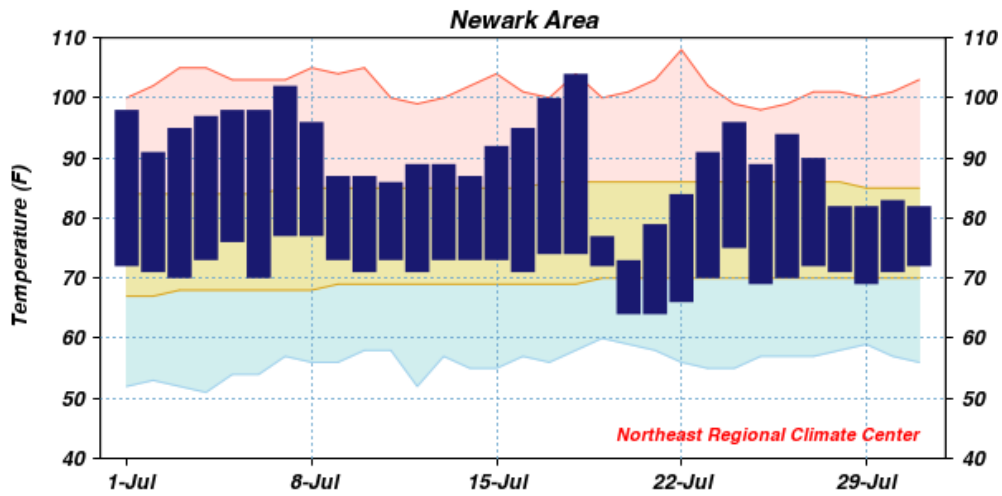
The afternoon and evening hours of the 28th saw scattered storms quickly produce copious road flooding rain in parts of northern and central NJ. A supercell storm brought severe damage to Freehold (Monmouth). The cell headed east out of Mercer County during the evening, depositing 3.33" and 2.88" at Lawrence Township stations and damaging crops. Tree and structural damage was widespread in Freehold, with resulting power outages to go along with road flooding. Rain totaled 3.27" in Millstone (Monmouth), hail up to an inch in diameter was reported in Mercer and Monmouth counties, and a gust of 63 mph was observed at Trenton-

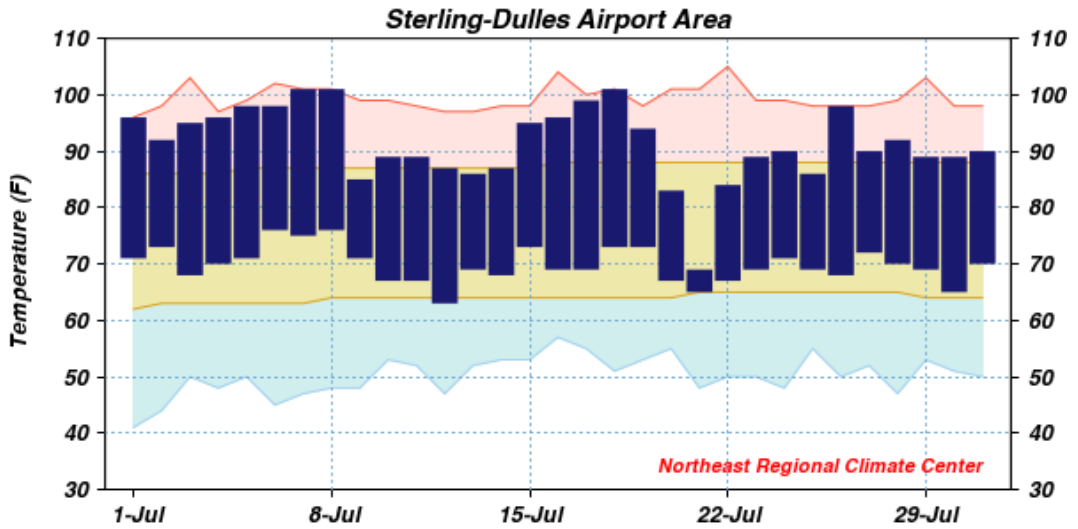
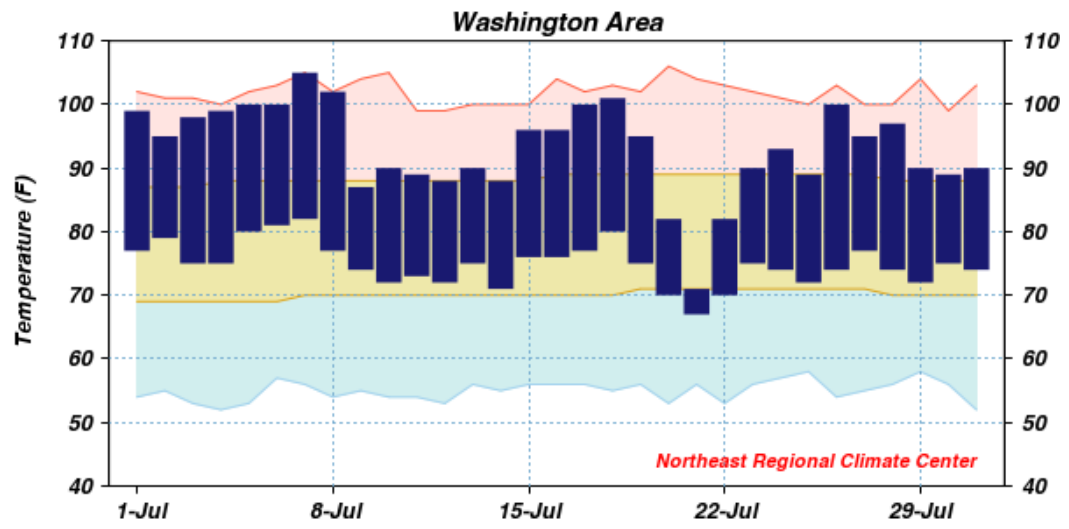
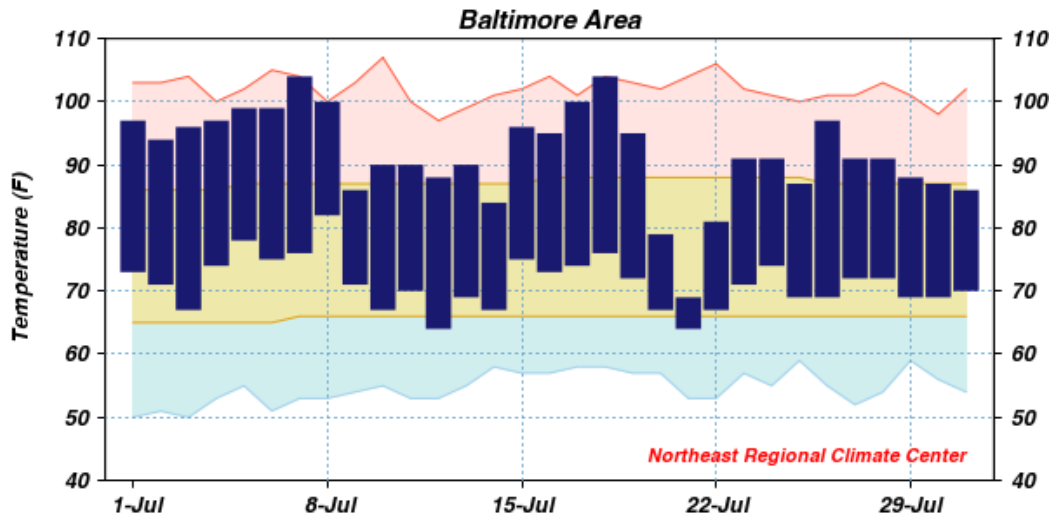
Mercer County Airport. Other storms during the PM hours brought a 68 mph gust to Atlantic City Airport in Pomona (Atlantic), with tree damage in the area. An afternoon storm up north moved east along the general Interstate 80 corridor, bringing more than an inch to some locations, including 2.30" at Haworth (Bergen). An isolated early afternoon storm brought 5.33" to a small section of Brick Township, while two other stations in that township no more than a few miles away caught only 1.34" and 0.79".

The last storms of July brought 2.48" to Woodbine and 1.37" at Sea Isle City, both in Cape May County. A few tenths of an inch to as much as 0.50" fell in the northern half of the state.

The highest barometric pressures of the month were observed on the 13th and 14th and ranged from 30.20"-30.25". Pressures were as low as 29.55"-29.60" on the 24th.

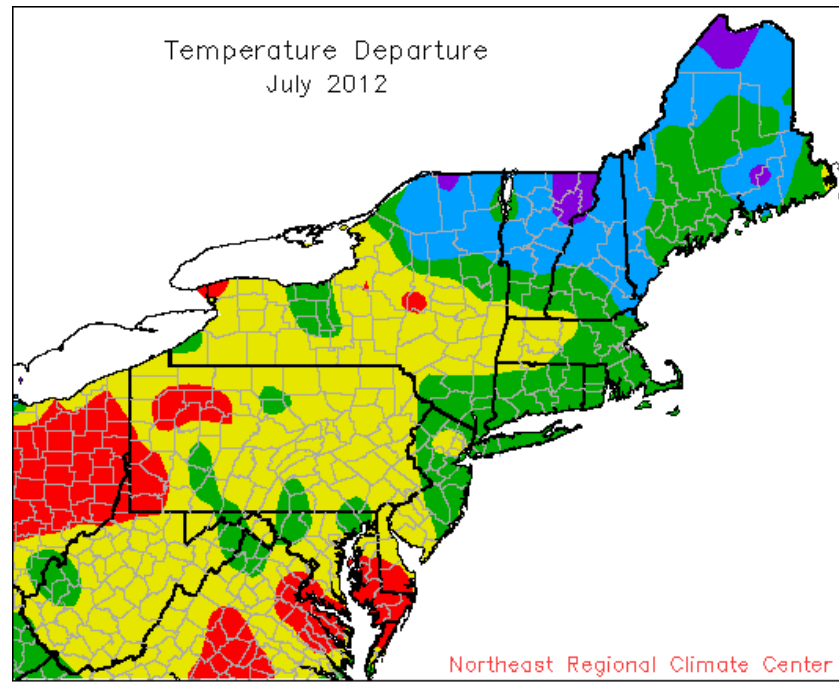
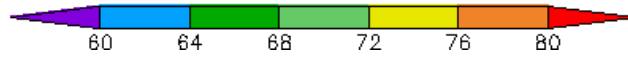
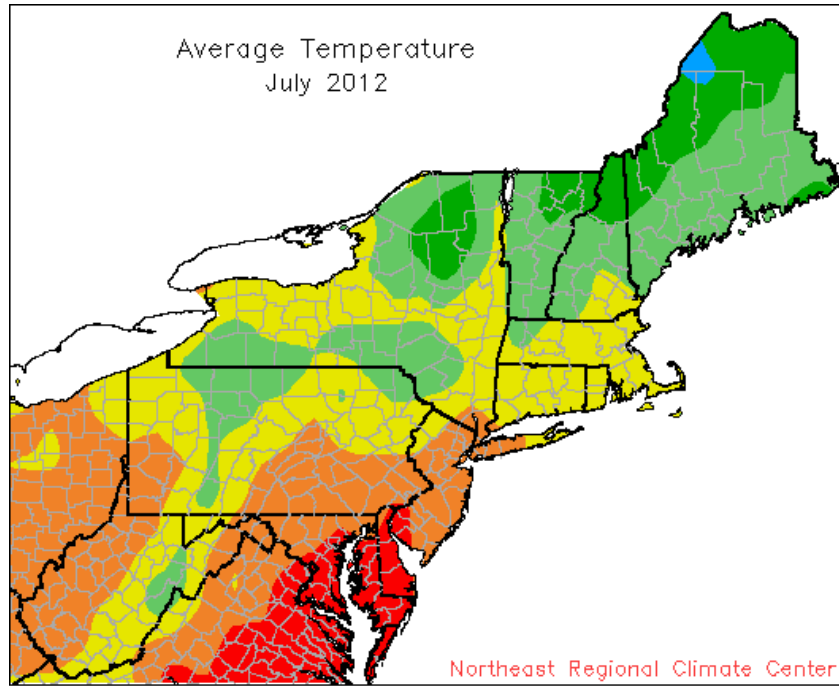
DAILY AVERAGE TEMPERATURES AND THE 30-YEAR NORMAL



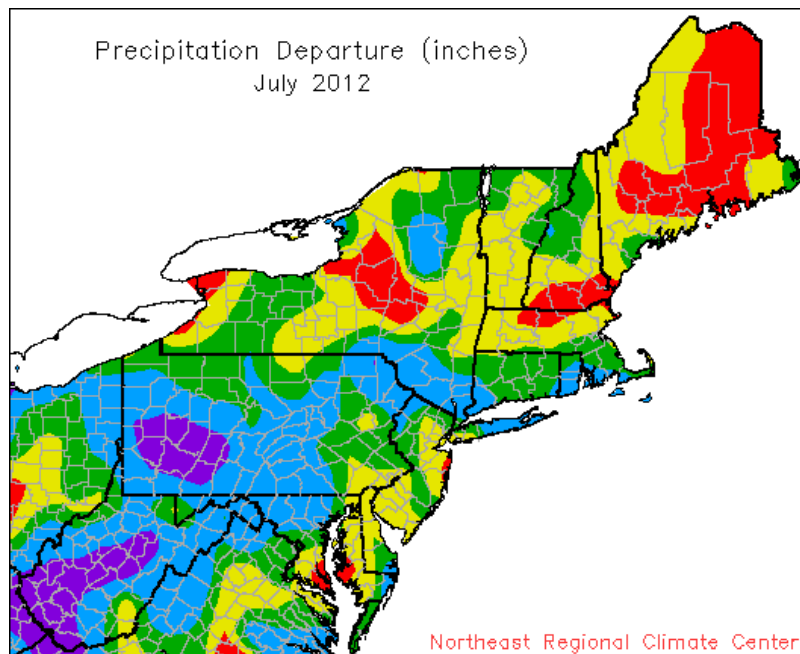
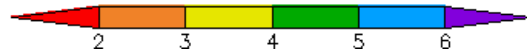
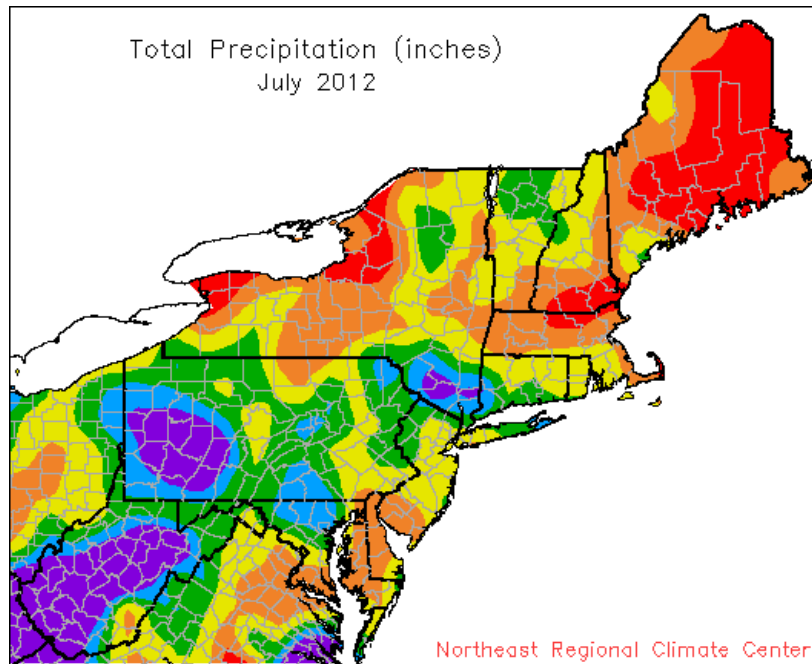


Area between normal max and min temperatures has tan shading.
 Red line connects record high temperatures.
 Light blue line connects record low temperatures.

MONTHLY TEMPERATURE MAPS



MONTHLY PRECIPITATION MAPS



PRELIMINARY MONTHLY SUMMARIZED DATA JULY 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+	70-	65+	50-	MON TOT	DEPRT TOT	DAYS 0.1+	DLY MAX	DAY MAX	MON TOT	DLY MAX
-DE: NORTHERN-																			
BEAR 2 SW	88.9	69.2	79.0	3.0	100	18	63	12+	14	0	27	0	3.36	-1.19	4	1.40	19		0
WILMINGTON NEW CAS	90.2	70.5	80.3	3.5	101	18+	64	12	17	0	30	0	3.05	-1.52	6	1.11	26		0
WILMINGTON PORTER R	90.1	71.2	80.6	4.4	101	18	63	21+	17	0	29	0	1.90	-3.46	4	0.96	26		0
-DIVISION-			80.0	3.5									2.77	-2.10					
-DE: SOUTHERN-																			
DOVER	90.3	72.0	81.1	3.4	101	7	66	22+	17	0	31	0	3.17	-0.92	5	1.74	20	NM	
-DIVISION-			81.1	4.0									3.17	-1.01					
-STATE-			80.9	3.9									3.08	-1.25					0
-MD: SOUTHEASTERN-																			
SALISBURY WICOMICO	92.8	72.8	82.8	6.0	102	7+	65	13	19	0	31	0	2.34	-2.04	5	0.88	9		0
SNOW HILL 4 N	92.8	70.5	81.7	4.3	102	7+	61	14+	22	0	26	0	3.58	-0.81	6	1.43	31	NM	
SALISBURY 2N	91.6	71.2	81.4		101	8	64	13	19	0	30	0							NM
-DIVISION-			82.0	4.8									2.96	-1.36					
-MD: CENTRAL EAST-																			
ROYAL OAK 2 SSW	92.3	72.4	82.4	3.8	102	7	65	13	20	0	31	0	2.70	-1.67	6	0.74	20	NM	
-DIVISION-			82.4	4.0									2.70	-1.73					
-MD: LOWER SOUTHE-																			
MECHANICSVILLE 5 N	88.2	69.6	78.9	3.4	98	8	65	13	14	0	31	0							0
SOLOMONS	90.8	75.1	82.9	3.3	102	8	69	2	19	0	31	0							NM
-DIVISION-			80.9	4.2									-1.49						
-MD: UPPER SOUTHE-																			
BALTIMORE WASH INT	91.7	71.2	81.4	4.4	104	18+	64	21+	21	1	29	0	3.27	-0.80	6	1.24	21		0
BELTSVILLE	90.1	69.5	79.8	2.5	101	8	63	25+	16	1	27	0	2.98	-0.96	6	0.88	20		0
DALECARLIA RSVR	91.0	70.9	81.0	2.7	102	19+	65	22+	16	0	31	0	3.37	-1.22	7	1.37	20		0
LAUREL 3 W	91.1	71.9	81.5	2.9	102	18+	63	21	17	1	29	0	3.60	-0.45	6	1.10	18	NM	
NATL ARBORETUM DC*	92.5	72.3	82.4	2.8	104	9+	65	21											NM
OXON HILL	91.5	71.9	81.7	3.4	103	8	65	21	18	1	31	0	2.96	-1.39	6	1.23	20		0
UPPER MARLBORO 3 N	92.0	70.1	81.0	4.0	105	8	63	12	18	1	30	0	3.57	-0.45	5	1.60	20	NM	
-DIVISION-			81.3	3.5									3.29	-0.92					
-MD: NORTHEASTERN-																			
STEVENSVILLE	89.0	72.9	80.9	4.0	101	8	62	21	17	1	29	0	5.46		8	2.03	20		0
-DIVISION-			80.9	3.6									5.46	1.27					
-MD: NORTHERN CEN-																			
ABERDEEN PHILLIPS*	89.3	70.5	79.9	2.7	100	19+	64	22+											0
CONOWINGO DAM	87.8	67.8	77.8	-0.4	98	18	63	3	11	0	27	0	2.33	-1.96	5	0.86	27	NM	
CYLBURN *	85.7	69.3	77.5	3.2	96	19	62	21											NM
DAMASCUS 3 SSW	85.2	66.6	75.9	1.6	95	8	62	26+	9	1	23	0	5.87	1.75	8	2.31	9	NM	
EMMITSBURG 2 SE	86.6	65.9	76.3	1.8	97	8	52	3	10	1	20	0	3.82	0.17	7	1.81	20		0
FREDERICK 2 NNE	89.7	69.1	79.4	3.0	99	8	63	22+	15	1	29	0	8.29	4.06	9	2.97	9	NM	
MILLERS 4 NE	87.5	66.6	77.0	3.6	97	7	60	21+	13	1	22	0	5.27	1.28	11	2.17	27		0
WESTMINSTER	88.3	68.1	78.2	2.7	99	19+	61	22	14	1	26	0	5.27	0.95	7	3.27	20		0
-DIVISION-			77.8	2.2									5.14	1.16					
-MD: APPALACHIAN -																			
CUMBERLAND 2	91.5	66.4	78.9	2.1	104	8	60	30	20	0	20	0	2.52	-1.04	8	0.50	26	NM	
FROSTBURG 2	82.0	62.7	72.4	3.4	91	8+	56	25	2	1	14	0	4.61	0.61	9	0.86	15	NM	
SHARPSBURG 5 S	88.3	65.5	76.9	2.8	98	8	59	26+	15	1	20	0							NM
-DIVISION-			76.1	3.0									3.57	-0.14					
-MD: ALLEGHENY PL-																			
OAKLAND 1 SE	83.5	61.8	72.7	4.3	94	8	53	25+	3	1	8	0	3.45	-2.01	11	0.63	27		0
SAVAGE RIVER DAM *	84.7	63.4	74.0	3.8	94	8	56	11+					5.54	1.22	10	2.22	27	NM	
SINES DEEP CREEK *	80.9	59.3	70.1		90	8	51	11+											NM
KITZMILLER 1 W	85.4	64.9	75.1		96	8	59	30+	8	0	17	0							NM
-DIVISION-			73.0	3.9									4.50	-0.45					
-STATE-			79.2	3.3									3.99	-0.18					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 DAY	MAX 90+	MIN 70-	65+	50-	MON TOT	DEPRT 0.1+	DAYS	DLY MAX	DAY	MON TOT	DLY MAX	
-NJ: NORTHERN-																			
BOONTON 1 SE	89.1	66.2	77.6	3.7	102	8	61	22+	15	1	22	0	3.13	-1.92	7	0.58	29	0	
BOUND BROOK 2 W													4.63	-0.28	6	1.10	29	NM	
CANOE BROOK	88.2	67.2	77.7	3.3	101	19	61	22	14	1	25	0	3.35	-1.38	8	0.70	28	0	
CHARLOTTEBURG RSV*	84.2	63.9	74.1	2.0	95	19	56	10										NM	
CRANFORD	90.6	66.5	78.5	3.6	103	19	60	22	19	0	23	0	2.64	-2.53	6	1.04	30	0	
FLEMINGTON 5 NNW	89.1	64.9	77.0	3.2	100	19	59	22+	17	1	16	0	3.96	-1.20	8	0.86	20	NM	
HARRISON	90.2	71.2	80.7	3.5	103	19	63	21	18	0	30	0	5.97	1.43	7	3.12	29	NM	
LAMBERTVILLE													4.87	-0.40	7	1.35	29	NM	
NEWARK INTL AP	90.1	71.5	80.8	3.4	104	18	64	21+	16	0	29	0	2.27	-2.49	4	0.73	26	0	
PHILLIPSBURG EAST*	89.0	66.1	77.6	3.3	99	19	61	21										0	
POTTERSVILLE 2 NNW	84.9	65.4	75.2		93	25+	60	25+	4	1	18	0	3.54	-2.05	8	0.97	29	NM	
RINGWOOD	89.5	63.7	76.6		101	19	56	10	19	1	13	0						NM	
SUSSEX 2 NW	85.9	62.4	74.2	3.1	97	19	54	10	8	1	9	0						0	
WAYNE	89.7	70.1	79.9		103	19	62	14	17	0	30	0	4.59		8	2.25	29	0	
WERTSVILLE 4 NE	87.1	65.5	76.3	2.1	97	19	59	25	12	1	18	0	4.79	-0.65	8	1.71	20	NM	
TOCKS ISLAND	85.7	64.8	75.3		96	19	58	25+	9	1	18	0						NM	
-DIVISION-			77.3	3.6									3.80	-0.98					
-NJ: SOUTHERN-																			
ATLANTIC CITY INTL	88.4	68.7	78.5	2.3	101	18	62	22+	14	0	24	0	3.38	-0.34	4	2.05	28	0	
ESTELL MANOR	88.7	67.7	78.2	3.0	99	19	61	22+	17	0	22	0						NM	
FREEHOLD MARLBORO	88.7	67.2	77.9	2.3	100	19	58	22	17	1	24	0	3.21	-1.82	5	1.28	29	NM	
HAMMONTON 1 NE	89.9	68.8	79.3	2.9	102	19	63	23	19	0	26	0	3.03	-1.23	5	1.67	20	0	
HIGHTSTOWN 2 W	89.5	64.7	77.1	2.4	101	19	56	22	17	1	16	0	5.06	0.09	9	2.12	29	0	
INDIAN MILLS	89.5	66.0	77.8	2.9	100	7	59	3	17	0	19	0	3.52	-0.87	6	0.99	20	0	
MILLVILLE MUNI AP*	89.0	68.6	78.8	3.2	99	18+	62	3										NM	
MOORESTOWN	90.7				101	19+			20	0			3.75	-1.25	7	1.60	29	NM	
NEW BRUNSWICK 3 SE	89.4	67.4	78.4	3.2	101	19	59	22	18	1	22	0	2.76	-2.32	8	0.50	20	0	
SEABROOK FARMS	90.0	70.9	80.4	3.3	101	19	64	1	18	0	30	0	3.86	-0.21	4	1.49	1	0	
SOMERDALE 4 SW	90.7	67.9	79.3		102	19+	62	21+	24	0	26	0	2.12	-1.93	5	1.03	27	NM	
ATSION	88.1	66.4	77.2		99	19	53	3	14	1	20	0	3.07		7	1.00	20	NM	
TRENTON MERCER CO	88.9	68.2	78.5	2.8	100	18+	63	22+	15	0	26	0	4.44	-0.51	6	2.35	28	NM	
PHILADELPHIA MT HO	89.3	68.3	78.8		101	19+	62	22	16	0	27	0	3.23		9	0.77	5	0	
-DIVISION-			78.5	2.9									3.43	-0.96					
-NJ: COASTAL-																			
ATLANTIC CITY	83.0	73.9	78.5	2.9	96	8	68	22+	5	0	31	0	1.86	-1.45	4	0.50	29+	NM	
BRANT BEACH HVN	85.7	73.9	79.8	3.6	96	8	67	21	6	0	31	0	3.59	-0.33	4	1.45	21	NM	
CAPE MAY 2 NW	88.4	71.1	79.8	3.7	99	7	63	13	15	0	30	0	2.24	-1.46	3	1.03	20	0	
LONG BRANCH OAKHUR	86.6	68.9	77.8	3.4	99	19+	59	22	12	0	29	0	2.21	-2.56	6	0.60	29	NM	
CAPE MAY COURT HOU													4.51		6	1.66	20	NM	
-DIVISION-			79.0	3.7									2.47	-1.44					
-STATE-			78.1	3.2									3.50	-1.00				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 JULY 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	0	0	0	0	443	104	762	146	908	104	2312	334
WILMINGTON NEW CAST	0	0	0	0	482	115	857	180	947	115	2436	353
WILMINGTON PORTER RS	0	0	0	0	494	148			959	148	2343	319
-DE: SOUTHERN-												
DOVER	0	0	0	0	509	115	926	163	974	115	2559	313
-MD: SOUTHEASTERN SHORE-												
SALISBURY WICOMICO	0	-1	0	-1	558	194	1042	367	1023	194	2747	640
SNOW HILL 4 N	0	0	0	0	524	140			989	140		
SALISBURY 2N	0		0		513				978		2700	
-MD: CENTRAL EASTERN SHORE-												
ROYAL OAK 2 SSW	0	0	0	0	547	124	1025	194	1012	124	2789	410
-MD: LOWER SOUTHERN-												
MECHANICSVILLE 5 NE	0	0	0	0	439	113			904	114		
SOLOMONS	0	0	0	0	561	107	1037	154	1026	107	2783	347
-MD: UPPER SOUTHERN-												
BALTIMORE WASH INTL	0	0	0	0	517	145	980	286	982	145	2673	553
BELTSVILLE	0	0	0	0	466	85	868	137	931	85	2515	348
DALECARLIA RSVR	0	0	0	0	504	92	939	108	969	92	2658	299
LAUREL 3 W	0	0	0	0	521	98	1019	199	986	98	2751	428
OXON HILL	0	0	0	0	528	116	981	161	993	116	2697	338
UPPER MARLBORO 3 NN	0	0	0	0	507	137	936	216	972	137	2601	434
-MD: NORTHEASTERN SHORE-												
STEVENSVILLE	0	0	0	0	504	137	898	194	969	137	2551	392
-MD: NORTHERN CENTRAL-												
CONOWINGO DAM	0	0	0	0	404	-4			869	-3	2224	30
DAMASCUS 3 SSW	0	-1	0	-1	346	55			811	56		
EMMITSBURG 2 SE	0	-1	0	-1	357	62	623	109	822	63	2158	320
FREDERICK 2 NNE	0	0	0	0	454	102			919	102		
MILLERS 4 NE	0	-1	0	-1	381	118	688	207	846	119	2319	501
WESTMINSTER	1	0	1	0	417	92			881	92	2303	286
-MD: APPALACHIAN MOUNTAIN-												
CUMBERLAND 2	0	0	0	0	440	76	802	101	905	76	2445	269
FROSTBURG 2	4	-15	4	-15	242	99	370	123	703	114	1765	377
SHARPSBURG 5 S	0	-1	0	-1	374	90			839	91	2164	300
-MD: ALLEGHENY PLATEAU-												
OAKLAND 1 SE	1	-22	1	-22	247	119			711	141		
KITZMILLER 1 W	0		0		322				787			
-NJ: NORTHERN-												
BOONTON 1 SE	1	-1	1	-1	399	123			863	124	2138	385
CANOE BROOK	1	-1	1	-1	403	111			867	112		
CRANFORD	0	-1	0	-1	428	120			893	121	2276	420
FLEMINGTON 5 NNW	1	-2	1	-2	379	105			843	107		
HARRISON	0	0	0	0	492	115			957	116		

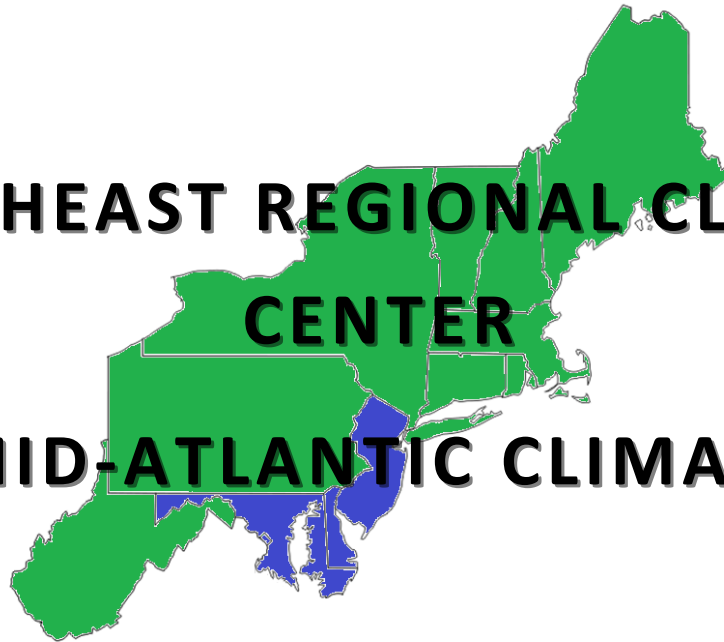
STATION	HEATING DEGREE DAYS (BASE 65)				COOLING DEGREE DAYS (BASE 65)				GROWING DEGREE DAYS (BASE 50)			
	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON
NEWARK INTL AP	0	0	0	0	496	113	871	173	961	113	2469	382
POTTERSVILLE 2 NNW	1		1		324		491		788		1959	
RINGWOOD	2		2		370				833			
SUSSEX 2 NW	1	-9	1	-9	293	93			757	102		
WAYNE	0		0		469		806		934		2351	
WERTSVILLE 4 NE	1	-1	1	-1	359	71			823	72		
TOCKS ISLAND	1		1		326		538		790		1972	
-NJ: SOUTHERN-												
ATLANTIC CITY INTL	0	0	0	0	429	82	726	112	894	82	2247	298
ESTELL MANOR	0	-1	0	-1	419	103	725	148	884	105	2232	314
FREEHOLD MARLBORO	0	-1	0	-1	408	78			873	80		
HAMMONTON 1 NE	0	-1	0	-1	453	99	793	150	918	100	2330	332
HIGHTSTOWN 2 W	2	0	2	0	384	81	666	122	847	81	2149	298
INDIAN MILLS	0	-1	0	-1	405	96			870	97	2296	380
NEW BRUNSWICK 3 SE	0	-1	0	-1	424	105	720	159	889	106	2232	365
SEABROOK FARMS	0	0	0	0	490	113			955	113		
SOMERDALE 4 SW	0		0		451		800		916		2276	
ATSION	0		0		389				854			
TRENTON MERCER CO A	0	0	0	0	428	98	783	206	893	98	2408	503
PHILADELPHIA MT HOL	0		0		434		785		899		2316	
-NJ: COASTAL-												
ATLANTIC CITY	0	0	0	0	423	93	688	150	888	93	2200	353
BRANT BEACH HVN	0	0	0	0	464	117			929	117		
CAPE MAY 2 NW	0	0	0	0	465	121	797	208	930	121	2363	421
LONG BRANCH OAKHURS	0	-1	0	-1	404	112			869	113		

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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