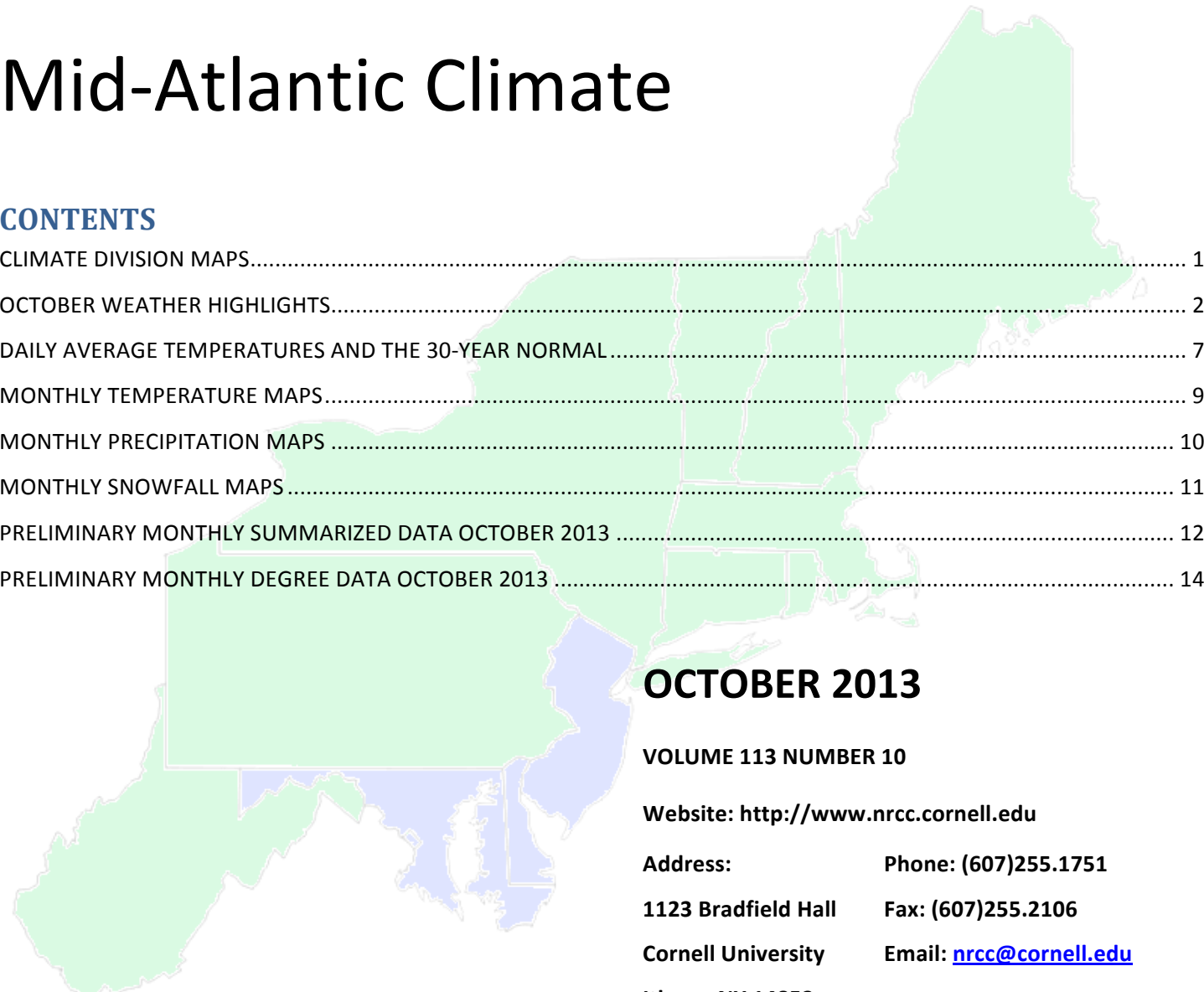


Northeast Regional Climate Center

Mid-Atlantic Climate

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OCTOBER 2013

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CLIMATE DIVISION MAPS

New Jersey Climate Divisions

- 1 Northern
- 2 Southern
- 3 Coastal



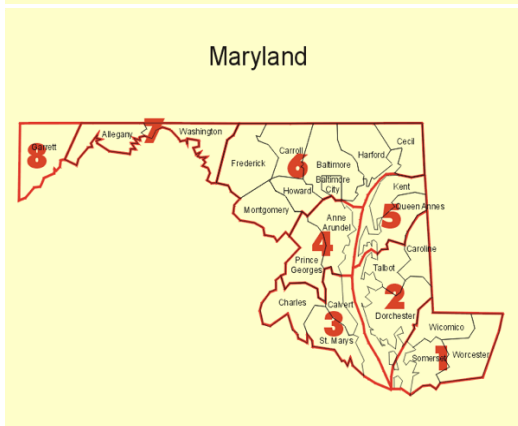
Delaware Climate Divisions

- 1 Northern
- 2 Southern



Maryland Climate Divisions

- 1 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



OCTOBER WEATHER HIGHLIGHTS

The Mid-Atlantic returned to warmer-than-normal temperatures in October. The region's average temperature of 58.0 degrees was 2.3 degrees above normal, making it the warmest October in six years. In terms of departure from normal, New Jersey was the warmest state at +2.6 degrees. It was the 20th warmest October on record for the state, with two of its three divisions ranking this October among their top 20 warmest, as well. Maryland had a departure of +2.1 degrees, with four of its eight divisions ranking the month among their top 20 warmest. Delaware's departure of +1.9 degrees made it the 20th warmest October since 1895. Two Maryland sites reported the region's maximum temperature of 92 degrees: Salisbury Wicomico Airport on the 5th and Cumberland on the 7th. For six straight months, Deep Creek Lake, MD, was one of the cool spots. The site dipped to 25 degrees on the 26th and 27th. Also reporting a low of 25 degrees were Oakland, MD, on the 28th and 29th and Belvidere, NJ, on the 28th and 30th.

The region ended the month slightly wetter than normal with 3.96 inches of precipitation, 108 percent of normal. Maryland and Delaware were wetter than normal while New Jersey was drier than normal. Maryland saw its 18th wettest October on record with 154 percent of normal precipitation. All but one of the state's eight divisions were wetter than normal, with four ranking this month among their top 20 wettest. With one wet division and one dry, Delaware wrapped up October with 110 percent of normal precipitation. New Jersey received 50 percent of normal precipitation, with all three divisions drier than normal and one ranking the month among its top 3 driest. Millers, MD, reported the greatest monthly and daily precipitation. The site received 8.05 inches for the month, 3.91 inches of which were reported on the 11th. On the other hand, Harrison, NJ, reported the least precipitation for the month, 0.50 inches. The first snow of the season was reported in several areas, including Oakland, MD, which reported a monthly total of 1.5 inches (fell on the 25th).

According to the U.S. Drought Monitor issued on October 3, 70 percent of Maryland and a small portion of southwestern Delaware was experiencing abnormally dry conditions. While rain from the remnants of Tropical Storm Karen eased dryness in those areas by mid-month, abnormal dryness was introduced in parts of northern and eastern New Jersey. By month's end, the northern 54 percent of New Jersey was abnormally dry with a small portion experiencing moderate drought conditions.

A powerful cold front moved across the region on October 7. The system packed wind gusts up to 60 mph, which downed trees and power lines. The system also produced an EF-1 tornado in Paramus, NJ, that snapped and uprooted trees. The remnants of Tropical Storm Karen stalled off the Mid-Atlantic coast from the 9th through 13th, bringing up to nine inches of rain to the region. Atlantic City, NJ, set back-to-back daily rainfall records on the 10th and 11th, as did Washington Dulles, DC, while Washington National, DC, and Baltimore, MD, set records on the 11th. The system's heavy rain caused flooding inland while high tide combined with gusty winds and pounding waves caused coastal flooding and beach erosion.

Daily Maximum Temperature Records (°F)

Station	Date	New	Previous
Atlantic City, NJ	2	85	85 in 2002
Newark, NJ	2	86	86 in 2002
Newark, NJ	4	89	87 in 2007
Washington Dulles, DC	4	90	88 in 2007
Washington Dulles, DC	5	90	90 in 1967
Washington Dulles, DC	6	89	86 in 1995

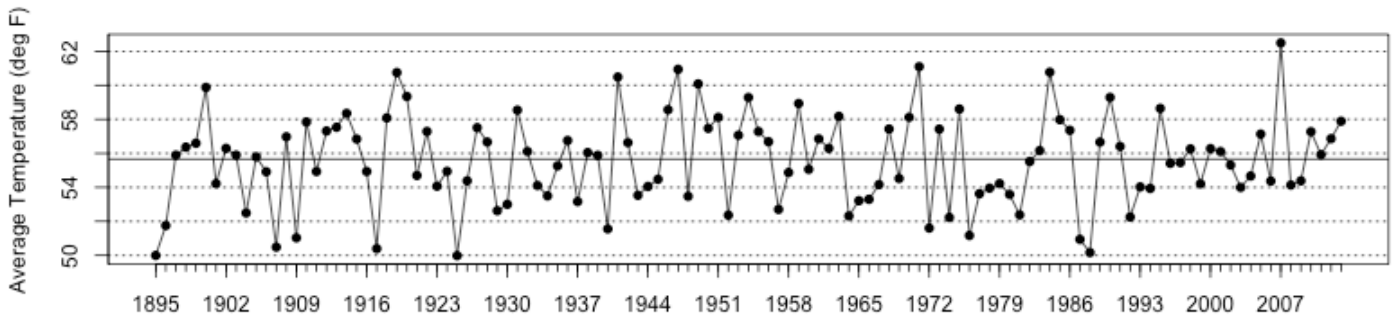
Daily High Average Temperature Records (°F)

Station	Date	New	Previous
Washington Dulles, DC	5	76.0	73.5 in 2007
Washington Dulles, DC	6	76.0	76.0 in 1995

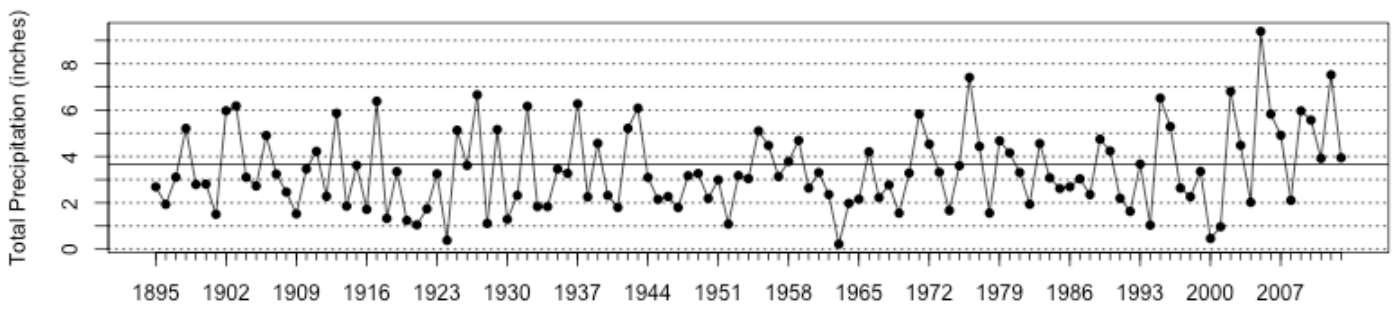
Daily Precipitation Records (inches)

Station	Date	New	Previous
Atlantic City, NJ	10	1.62	1.55 in 1971
Washington Dulles, DC	10	2.22	1.95 in 1971
Atlantic City, NJ	11	1.54	1.34 in 2005
Washington National, DC	11	2.76	1.10 in 1905
Washington Dulles, DC	11	3.38	0.91 in 2002
Baltimore, MD	11	3.66	1.13 in 2002

Mid Atlantic Average October Temperatures



Mid Atlantic October Precipitation Totals



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

A Tranquil October.....Imagine That! October 2013 Summary

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

October Overview

Following the past two October 29^{ths}, it was wonderful to see sunny skies and seasonable maximum temperatures ranging from the mid to upper 40°s in the northwest to the low to mid 60°s in south this 29th. As a matter of fact, aside from a strong frontal passage blowing through the north on the 7th and a stubborn coastal storm impacting the south from the 9th-12th, conditions were quite tranquil throughout most of October 2013. A summer-like first week was the major contributor to the statewide monthly average temperature of 57.1° coming in 2.3° above normal. This ties with 1950 and 1951 as the 20th mildest October since statewide records commenced in 1895. With the exception of the far southeast corner of NJ, drier than average conditions prevailed. The 2.07" statewide value is 1.86" below average. Up north, the climate division encompassing Mercer, Somerset and Union counties northward received 0.98" of rainfall. This is the 5th driest October of the past 119 years, coming in at 3.38" below the divisional normal. The southern division averaged 2.68", which is 1.02" below normal and ranks as 46th driest.

Temperature

The 1st-7th saw at least one station within the 53 station [NJ Weather and Climate Network](#) reach an unseasonably warm 82° or higher daily maximum. Seven stations topped out at 82° on the 1st, with 27 others at either 80° or 81°. The 2nd found New Brunswick (Middlesex County), Jersey City (Hudson), Red Lion (Burlington), and West Creek (Ocean) up to 85°, with High Point (Sussex) the coolest at 75°. Hammonton (Atlantic) reached 84° on the 3rd, with 9 others at 82° or 83°. The 4th was the hottest day of the month, with New Brunswick at 88° and 10 other stations 87°, while Harvey Cedars (Ocean) was coolest at 75°. Greenwich and Upper Deerfield, both in Cumberland County, reached 88° on the 5th, with Upper Deerfield again that warm on the 6th. The last 80° day of the month and likely the season occurred on the 7th when South Harrison (Gloucester) and Greenwich hit 82°.

Three other days later in the month saw stations reaching at least a 75° maximum. This included Hawthorne (Passaic) and Walpack (Sussex) at 76° on the 12th, Hawthorne and Greenwich 75° on the 15th, and Walpack 78° on the 17th.

Aside from a 31° low at Walpack on September 24th, it was not until October 19th that a freezing minimum was experienced again. This began a 12 day string with Walpack and, on all but one occasion, at least one other location dropping to 32° or colder. Walpack was 31° and Pequest (Warren) 32° on the 19th, and Walpack was alone at 32° on the 20th. Walpack reached 27° on the 21st and Pequest 29°, when six other stations fell to 30°-32°. Walpack was 31° and Pequest 32° on the 22nd and 24° and 28°, respectively, on the 23rd. The 24th saw Walpack at 24°, Pequest at 26°, and nine stations between 29°-32°. A more widespread freeze ensued on the 25th with 17 locations between 27°-32°, Walpack at 22°, and Pequest 26°.

The coldest morning of the month occurred on the 26th, when Walpack and Pequest dropped to 21° and 29 stations ranged between 24°-32°. This ended the growing season in all but core urban and immediate coastal areas, where Atlantic City Marina (Atlantic) only managed a 40° low. Walpack fell to 26° and Pequest 27° on the 27th. Another cold morning on the 28th dropped these locations to 22° and 23°, respectively, when 35 other locations were between 25°-32°. The 29th saw both Walpack and Pequest at 28°. A large statewide range in minimums occurred on the morning of the 30th when Walpack dropped to 26° and Atlantic City Marina only 55°.

Despite most locations having an October freeze, the growing season (consecutive days above 32°) continued into November at some locations. This includes Atlantic City Marina where the season began on April 5, thus as of October

31st it had lasted 210 days. At the other end of the spectrum, Walpack did not see the season start until May 28th and saw it end on September 23, just 119 days in length.

Precipitation and storms

With rainfall quite sparse in most areas of NJ in October, above-average totals were still found in the far southeast. In Cape May County, Middle Township received 6.61" over the course of the month, with Dennis catching 5.30" and Woodbine 3.69". In Atlantic County, Egg Harbor Township received 4.60" and Hamilton Township 4.60". Driest conditions prevailed in the northeast, where the Bergen County communities of Tenafly, Saddle Brook, and Glen Rock totaled 0.41", 0.50", and 0.52", respectively. Elsewhere, Harrison (Hudson) and Montclair (Essex) both received 0.51" and Sparta (Sussex) saw 0.52".

Only two systems in October produced more than an inch of rainfall at one or more of the over 250 CoCoRaHS and NJWxNet stations located throughout the state. As the state and divisional monthly totals noted previously suggest, the main action was in the south. Showers from late on the 4th through the 6th were most productive in the far northwest and central coast. The highest totals included 0.73" in Montague, Newton (Sussex) 0.65", High Point (Sussex) 0.41", Wantage (Sussex) 0.32", Berkeley Township (Ocean) 0.27", and Toms River (Ocean) 0.26".

A cold front moved into NJ during the afternoon of the 7th. It produced some severe weather across northern areas that brought trees down onto cars, houses and wires in Somerset, Morris, Union, Passaic, and Bergen counties. The National Weather Service verified that an EF 1 tornado lasting from 3:16-3:18 PM crossed a portion of Paramus (Bergen). Winds were estimated to have been up to 100 mph along the 1.25-mile path of this 100-yard wide storm. No one was injured as the storm mainly passed through George Washington Cemetery and the Paramus and Ridgewood golf clubs. This brought the NJ tornado total for the year to 3. Winds gusted to 50 mph in Chatham (Morris) and 42 mph at both Basking Ridge (Somerset) and Sea Girt (Monmouth). Gusts ranged from 30-39 mph at 25 other NJWxNet stations. Rainfall on the 7th included 1.40" in Denville (Morris), Boonton (Morris) 1.16", and Peapack-Gladstone (Somerset) 1.15". Four other stations received more than an inch, 96 stations between 0.50"-0.99", and 117 from 0.10"-0.49", as all of NJ saw some rainfall.

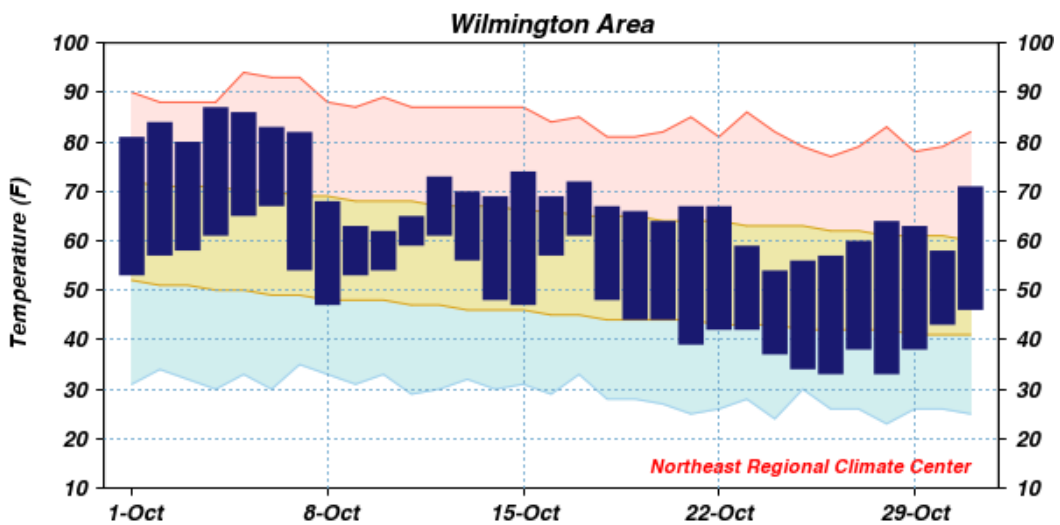
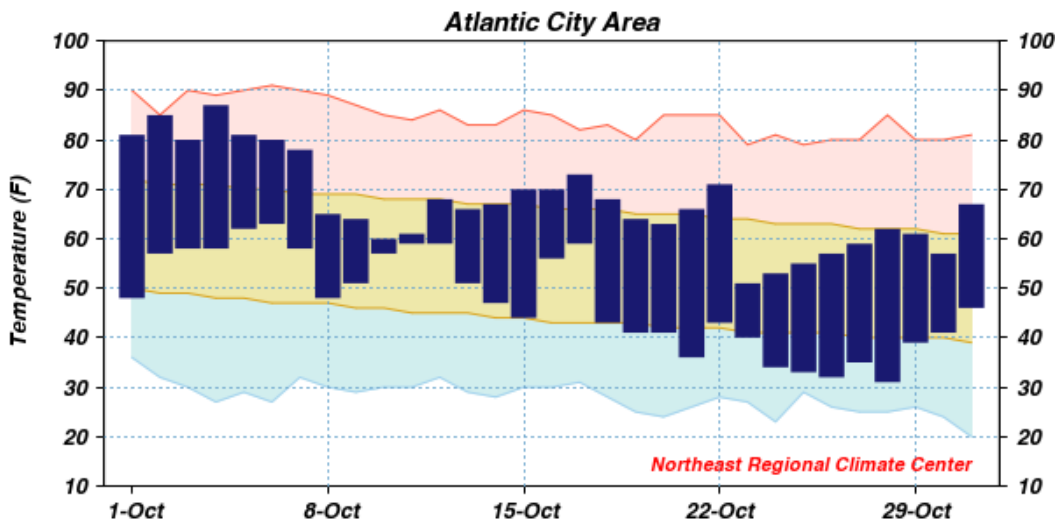
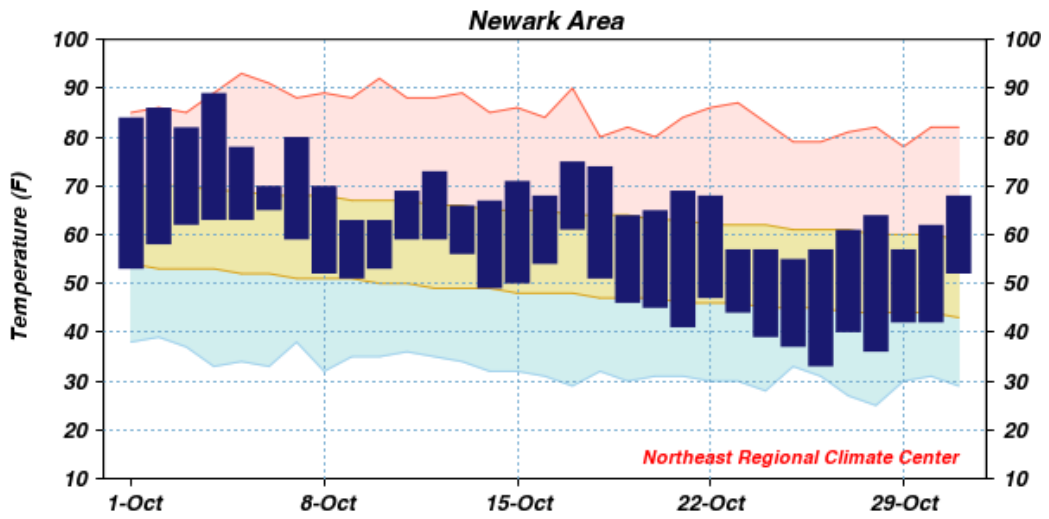
A strong area of low pressure meandered off the Mid-Atlantic coast from the 9th-12th. Some remnant energy from Tropical Storm Karen helped to energize and moisten this storm system. It brought heavy surf and some moderate coastal flooding at times of high tide. So too did heavy rain fall in Cape May County, with 3.74" in Middle Township, Cape May 3.54", Woodbine 3.49", West Cape May 3.47", Dennis Township 3.46", and Cape May Courthouse 3.33". Elsewhere in south Jersey 2.00"-2.99" totals were received at 26 stations, with totals tapering northward to the I-195 corridor as 41 stations caught 1.00"-1.99" and 23 stations 0.50"-0.99". North of there, a few tenths fell at best.

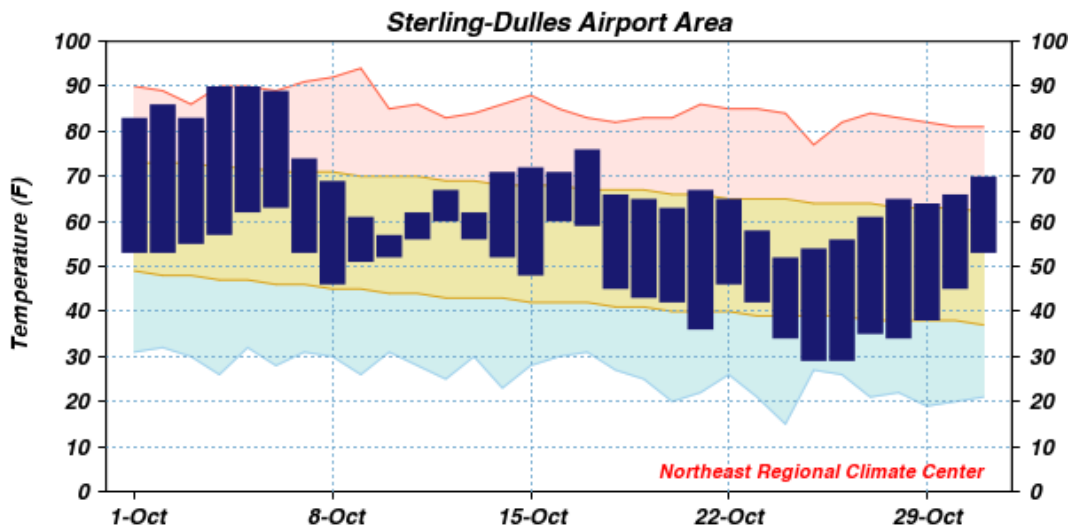
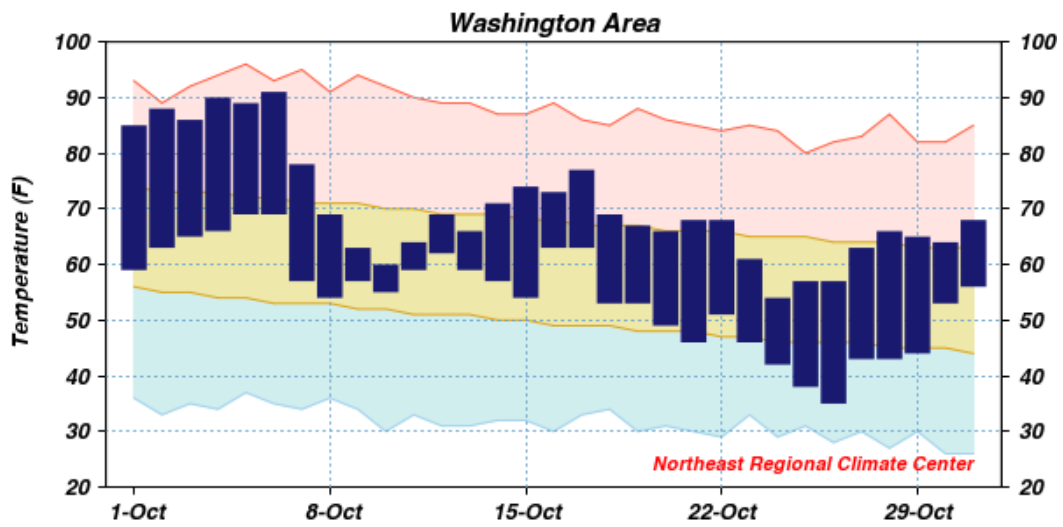
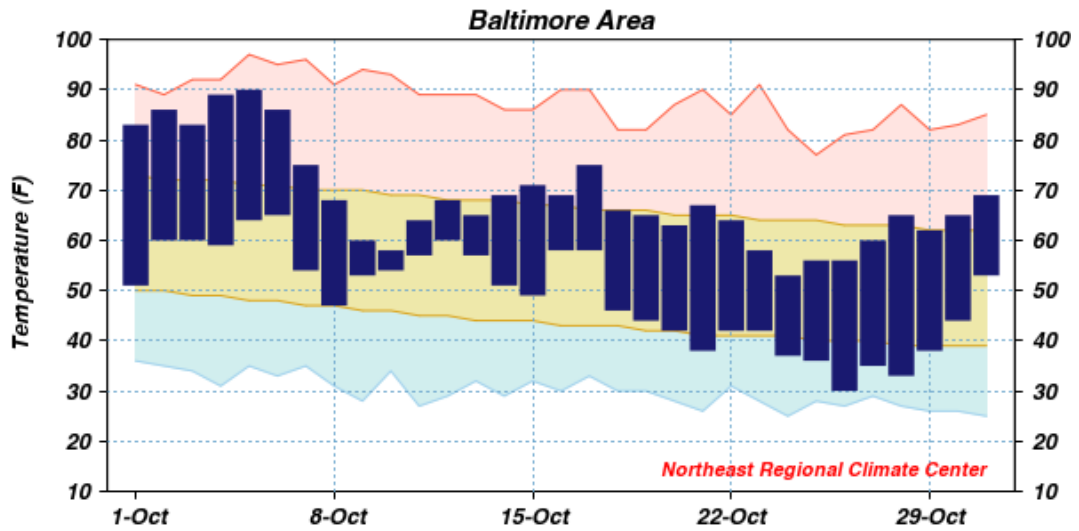
The coastal system produced consistently moderate to strong winds along the coast. Gusts on the 10th reached 41 mph at both Seaside Heights (Ocean) and Atlantic City Marina (Atlantic) and 40 mph in Harvey Cedars (Ocean). Peak gusts on the 11th were 43 mph at Harvey Cedars, 42 mph in Seaside Heights, and 40 mph at Atlantic City Marina. Seaside Heights gusted to 41 mph on the 12th. At Harvey Cedars, gusts of at least 30 mph were recorded for a remarkable 79 consecutive hours, beginning at 3:00 AM on the 9th and ending at 10:00 AM on the 12th. Gusts exceeded 25 mph for 109 consecutive hours.

The south next caught some light rain from late on the 19th to early on the 20th. No more than 0.20" fell in the far south, with none north of I-195. Another offshore low grazed the southeast portion of NJ on the 22nd-23rd, with little to no rain elsewhere. Hamilton (Atlantic) received 0.75", Middle Township (Cape May) 0.68", Egg Harbor Township (Atlantic) 0.60", and 0.52" and 0.56" at two Estell Manor (Atlantic) stations. A minor event on the morning of the 30th brought less than 0.10" to the southern half of NJ and once again nothing in the north.

The lowest barometric pressure of October occurred on the 23rd with most areas in the mid to upper 29.50"s. High pressure in the low to mid 30.40"s was tops for the month on the 29th.

DAILY AVERAGE TEMPERATURES AND THE 30-YEAR NORMAL



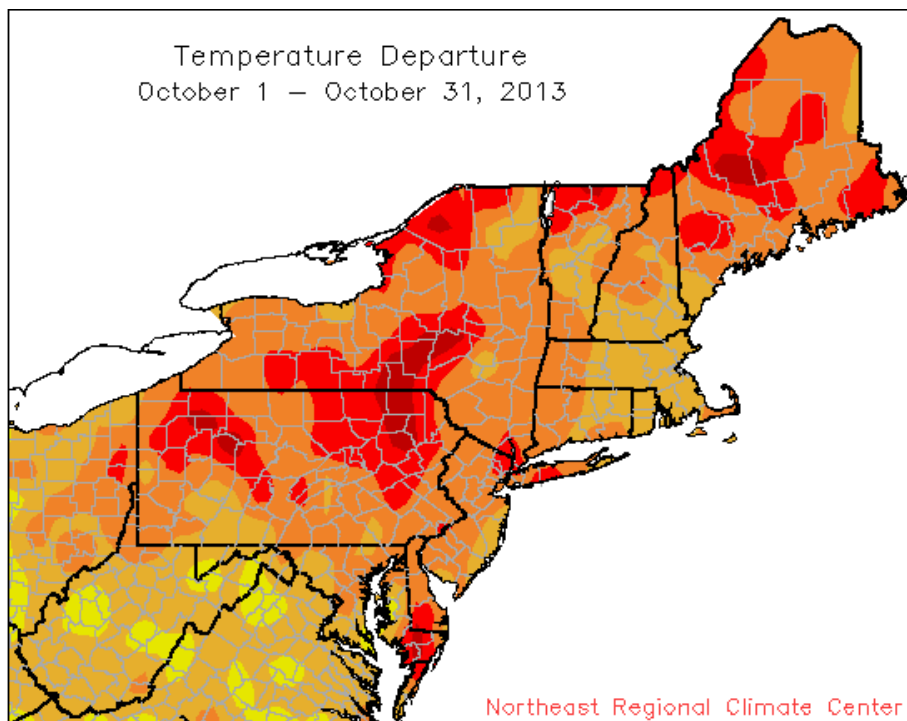
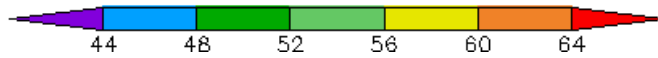
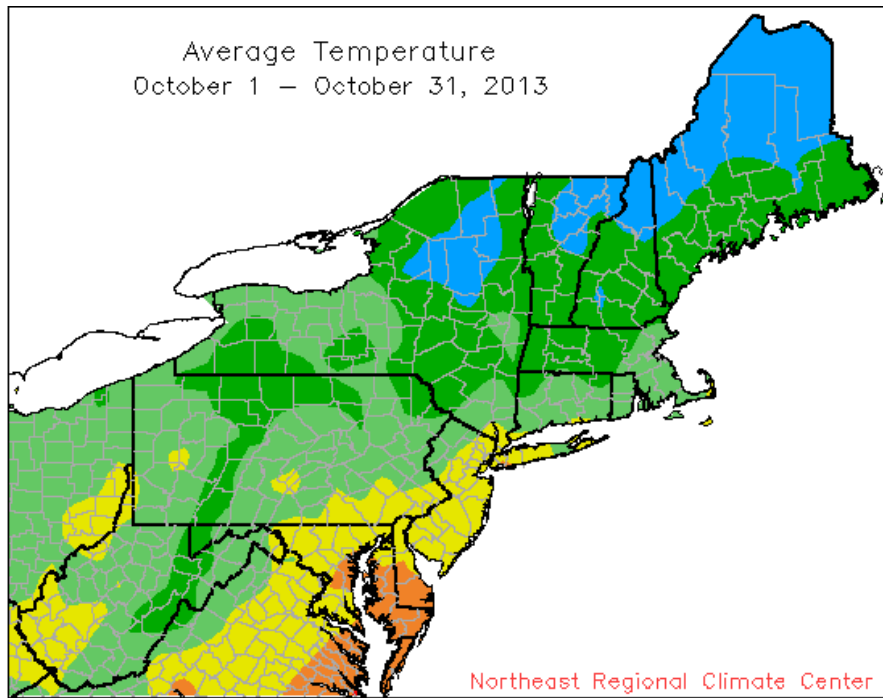


Area between normal max and min temperatures has tan shading.

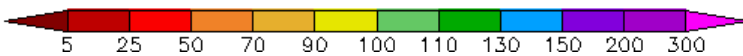
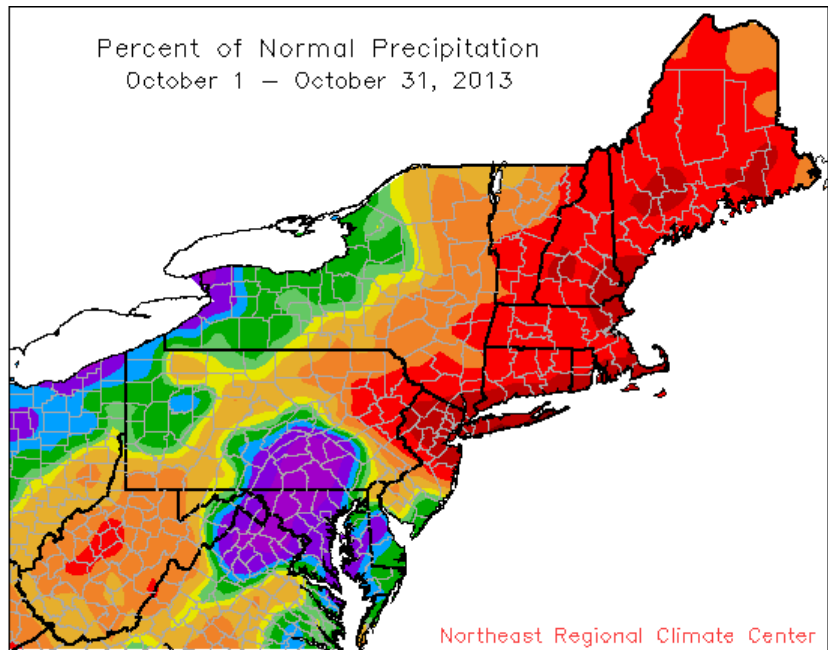
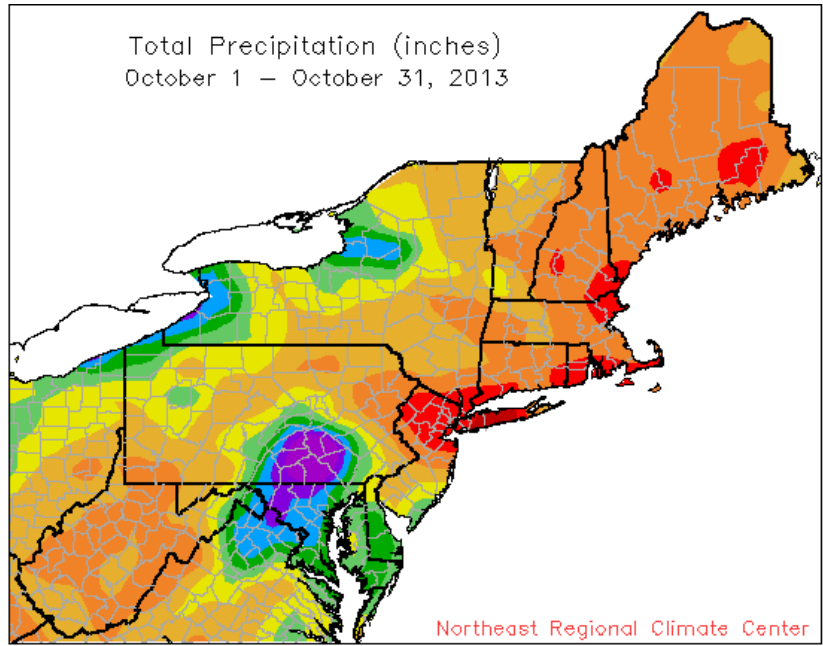
Red line connects record high temperatures.

Light blue line connects record low temperatures.

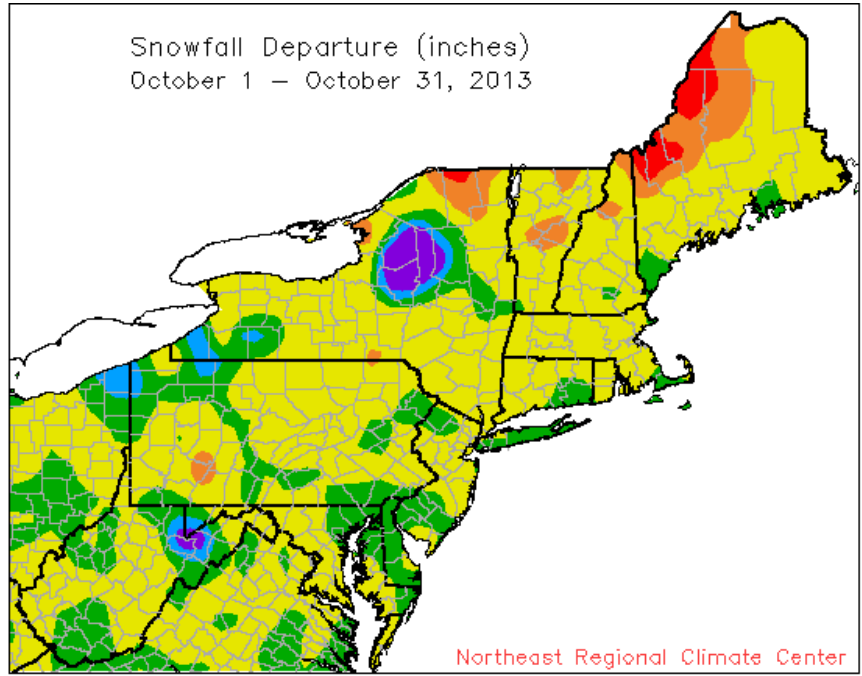
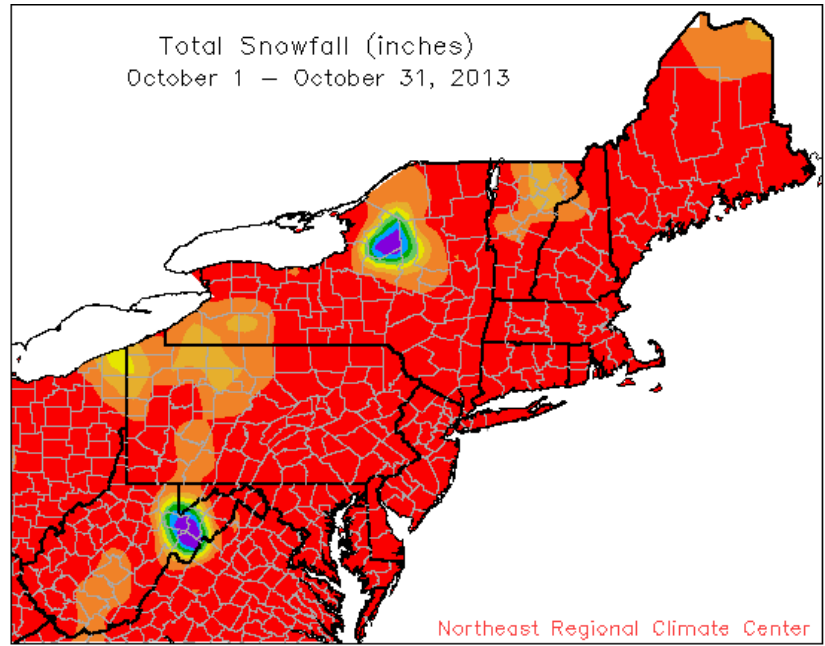
MONTHLY TEMPERATURE MAPS



MONTHLY PRECIPITATION MAPS



MONTHLY SNOWFALL MAPS



PRELIMINARY MONTHLY SUMMARIZED DATA OCTOBER 2013

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	90+	70-	65+	50-	MON	DEPRT	DAYS	DLY	DAY	MON	DLY	DAY	
	MAX	MIN	AVG		MAX	MIN									TOT		0.1+	MAX		TOT	MAX		
-DE: NORTHERN-																							
WILMINGTON NEW CAS	69.1	49.0	59.0	2.8	87	4	33	28+	0	20	2	17	1.97	-1.45	3	0.93	11			0			
WILMINGTON PORTER R	66.5	48.9	57.7	1.9	84	4	32	31+	0	23	2	15	3.45	-0.36	3	2.04	11			0			
-DIVISION-			58.4	2.3									2.71	-0.90						0			
-DE: SOUTHERN-																							
DOVER	69.0	50.5	59.7	1.0	87	4	32	26	0	20	1	15								NM			
-DIVISION-			59.7	1.8																			
-STATE-			59.4	1.9									0.60	-3.02						0			
-MD: SOUTHEASTERN-																							
SALISBURY WICOMICO	72.6	52.2	62.4	5.2	92	5	30	26	2	16	3	13	3.68	0.19	6	1.14	10			0			
SNOW HILL 4 N	72.5	49.9	61.2	2.1	91	5	27	26	2	16	3	15	4.81	1.28	7	1.70	10			NM			
SALISBURY 2N	70.5	51.9	61.2		88	5	30	26	0	19	2	12	6.28		7	1.49	10			NM			
-DIVISION-			61.6	2.8									4.92	1.56						0			
-MD: CENTRAL EAST-																							
-DIVISION-																							
-MD: LOWER SOUTHE-																							
MECHANICSVILLE 5 N	66.8	47.6	57.2	1.6	84	7	29	27+	0	22	1	19	4.74	1.04	7	1.80	10						
SOLOMONS *	68.3	54.3	61.3	-0.1	85	8+	39	31+												NM			
ST INIGOEES WEBSTER	69.6	52.0	60.8	1.5	88	5	31	26	0	21	1	13	6.43		6	2.88	11			NM			
-DIVISION-			59.8	2.7									5.59	1.97									
-MD: UPPER SOUTHE-																							
BALTIMORE WASH INT	68.6	48.9	58.8	2.7	90	5	30	26	1	22	1	15	7.62	4.29	5	3.66	11			0			
DALECARLIA RSVR *	69.1	48.6	58.8	1.0	88	8+	30	27+															
LAUREL 3 W	69.5	51.4	60.4	2.3	89	6+	33	26	0	21	4	14	5.69	1.71	5	1.67	10			NM			
MD SCI CTR BALTIMO	71.2	56.8	64.0	3.9	91	4	40	26+	1	18	5	9	4.69	1.64	3	2.12	10			NM			
NATL ARBORETUM DC	70.8	51.3	61.0	2.5	91	6	32	26	1	17	4	13	6.49	2.70	5	2.37	12						
OXON HILL	68.5	50.6	59.5	1.6	89	6	32	27+	0	20	2	12	6.05	2.33	5	2.75	12						
UPPER MARLBORO 3 N	69.6	47.2	58.4	2.0	90	6	28	26	1	20	0	19	7.33	3.73	6	3.05	12			NM			
-DIVISION-			60.1	3.2									6.31	2.65						0			
-MD: NORTHEASTERN-																							
STEVENSVILLE	66.9	53.2	60.0	0.7	85	7+	39	29	0	22	2	11	5.12		6	1.42	11			0			
-DIVISION-			60.0	2.8									5.12	1.58						0			
-MD: NORTHERN CEN-																							
ABERDEEN PHILLIPS	68.2	48.6	58.4	2.0	87	6	33	29+	0	21	1	18	4.98	1.22	6	2.25	11			0			
BRIGHTON DAM	66.3	46.1	56.2		85	7	27	26	0	23	1	19	6.35		5	2.55	11			0			
CONOWINGO DAM	66.4	47.0	56.7	-0.2	82	6	31	28+	0	24	1	20	5.05	0.93	4	3.40	11						
CYLBURN	66.1	48.6	57.3	1.8	86	6	34	28	0	22	1	17	5.88		5	2.22	11			NM			
DAMASCUS 3 SSW	64.7	48.3	56.5	1.7	84	6+	30	26	0	23	0	18	7.50	3.78	5	2.47	11			0			
EMMITSBURG 2 SE	68.2	44.4	56.3	2.3	88	7	29	28	0	20	0	21	6.51	3.13	4	3.58	11			0			
MILLERS 4 NE	65.9	46.2	56.1	1.9	86	5	29	26	0	22	0	20	8.05	4.30	6	3.91	11			0			
-DIVISION-			56.8	1.4									6.33	2.68						0			
-MD: APPALACHIAN -																							
CUMBERLAND 2	68.0	46.0	57.0	1.0	92	7	26	27+	1	22	0	17	2.36	-0.21	6	0.61	11			NM			
FROSTBURG 2	60.1	43.5	51.8	1.8	84	7	27	27+	0	25	0	22	3.25	0.21	7	0.75	12						
SHARPSBURG 5 S	67.4	43.5	55.4	0.8	89	7	26	26+	0	21	0	20	6.34	2.93	5	3.54	11			NM			
WILLIAMSPORT	67.3	46.7	57.0	2.4	87	7	30	27	0	21	0	17	7.67	4.61	6	3.65	11						
-DIVISION-			55.3	2.3									4.91	2.01									
-MD: ALLEGHENY PL-																							
OAKLAND 1 SE	61.4	39.9	50.7	1.3	84	7	25	29+	0	25	0	23	1.76	-1.39	6	0.37	18			1.5	1.5	25	
SAVAGE RIVER DAM													2.10	-0.56	7	0.37	14			NM			
SINES DEEP CREEK *	59.9	40.3	50.1		82	7	25	27+															
KITZMILLER 1 W	62.6	43.1	52.9		84	7+	26	27+	0	24	0	23								NM			
-DIVISION-			51.2	1.4									1.76	-1.16						1.5			
-STATE-			50.9	-5.2									4.81	1.34						0.1			
-NJ: NORTHERN-																							

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	90+	70-	65+	50-	MON	DEPRT	DAYS	DLY	DAY	MON	DLY	DAY
MAX	MIN	AVG		MAX	MIN									TOT		0.1+	MAX		TOT	MAX		
BELVIDERE BRG *	66.6	41.8	54.2	1.4	84	5	25	30+						0.66	-3.88	2		0.40	8			0
BOONTON 1 SE	66.6	45.1	55.9	3.0	84	5	29	27+	0	21	1	21		0.88	-3.62	1		0.66	8			0
BOUND BROOK 2 W														0.78	-3.26	2		0.54	8	NM		
CRANFORD	67.1	51.0	59.0	4.6	82	5	37	31+	0	18	3	13		0.84	-3.52	2		0.42	8			0
FLEMINGTON 5 NNW	67.4	44.2	55.8	3.0	85	5	29	29+	0	20	0	21		0.91	-3.57	3		0.45	8			
HARRISON	67.8	49.6	58.7	2.1	87	5	34	27+	0	20	3	15		0.50	-3.38	1		0.42	8	NM		
LAMBERTVILLE														2.25	-1.76	4		0.96	8	NM		
NEWARK INTL AP	68.8	50.4	59.6	3.0	89	4	33	26	0	21	1	14		0.51	-3.09	1		0.30	7			0
POTTERSVILLE 2 NNW	67.1	46.3	56.7		85	5	30	26	0	21	1	20		0.84	-3.78	2		0.57	8	NM		
SUSSEX 2 NW	65.5	43.0	54.3	4.0	82	5+	28	26	0	22	0	24										
WAYNE *	65.7	47.3	56.5		84	5	33	26						0.53		1		0.46	8			0
WERTSVILLE 4 NE *	66.6	45.9	56.2	3.4	84	5	34	28														
RIEGELSVILLE														1.55		4		0.56	11			0
TOCKS ISLAND	65.5	44.1	54.8		82	5+	30	29+	0	20	1	24								NM		
-DIVISION-			56.5	3.8										0.71	-3.65							0
-NJ: SOUTHERN-																						
ATLANTIC CITY INTL	67.4	47.4	57.4	1.3	87	4	31	28	0	22	0	18		4.91	1.49	5		1.62	10			0
ESTELL MANOR	68.5	46.7	57.6	2.8	85	5	29	26	0	20	1	21		4.56	0.63	8		1.41	11	NM		
FREEHOLD MARLBORO*	67.7	44.9	56.3	1.5	85	5	28	27												NM		
HAMMONTON 1 NE	68.5	47.1	57.8	2.5	86	7+	31	29+	0	20	1	17		3.54	-0.04	6		1.83	11			0
HIGHTSTOWN 2 W	68.4	45.1	56.8	2.5	87	5	28	26	0	20	0	19		0.74	-2.91	2		0.36	8			0
INDIAN MILLS	67.7	45.8	56.8	1.8	85	4	26	26	0	20	0	20		3.54	-0.26	7		2.02	11			0
MILLVILLE MUNI AP*	67.9	45.4	56.7	1.5	86	5	27	26						2.96	-0.54	5		0.75	7	NM		
NEW BRUNSWICK 3 SE	69.3	45.5	57.4	3.0	88	5	28	26	0	20	0	19		0.60	-3.20	1		0.45	8			0
SEABROOK FARMS	69.2	49.4	59.3		86	6+	34	28+	0	19	1	14		1.92		4		0.54	10			0
SOMERDALE 4 SW	65.7	46.8	56.2		83	5	28	28+	0	23	1	19		2.81	-0.77	6		1.18	11	NM		
ATSION	67.6	46.2	56.9		85	5	28	28+	0	20	2	19		2.74		5		1.52	11	NM		
TRENTON MERCER CO	67.4	47.9	57.6	3.0	86	4	30	28	0	21	2	18		1.65	-2.53	5		0.60	7			
PHILADELPHIA MT HO	67.8	47.3	57.5		85	5	30	26	0	21	2	18		2.13		4		1.02	12			0
-DIVISION-			57.3	2.0										2.68	-1.01							0
-NJ: COASTAL-																						
ATLANTIC CITY	65.4	55.5	60.4	1.7	82	3	40	26+	0	24	5	9		3.07	-0.40	6		1.13	11			0
CAPE MAY 2 NW	68.9	52.3	60.6	2.1	87	5+	35	28	0	23	1	14		4.40	0.70	6		1.57	10			0
LONG BRANCH OAKHUR	66.5	49.1	57.8	1.8	84	5+	33	27+	0	22	2	16		0.95	-3.47	3		0.41	12	NM		
-DIVISION-			59.6	2.0										2.81	-0.75							0
-STATE-			57.2	2.6										1.97	-1.96							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 OCTOBER 2013

STATION	HEATING DEGREE DAYS (BASE 65)				COOLING DEGREE DAYS (BASE 65)				GROWING DEGREE DAYS (BASE 50)			
	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON
-DE: NORTHERN-												
WILMINGTON NEW CAST	227	-65	296	-48	49	31	1241	96	303	86	3758	144
WILMINGTON PORTER RS	265	-35			46	31			282	74		
-DE: SOUTHERN-												
DOVER	207	-19	251	-8	54	22	1312	-1	327	41	3901	-31
-MD: SOUTHEASTERN SHORE-												
SALISBURY WICOMICO	161	-104	188	-125	88	63	1620	470	404	157	4311	639
SNOW HILL 4 N	177	-43	230	-25	67	31			370	74		
SALISBURY 2N	175				64				367			
-MD: CENTRAL EASTERN SHORE-												
-MD: CENTRAL EASTERN SHORE-												
-MD: LOWER SOUTHERN-												
MECHANICSVILLE 5 NE	265	-43	366	-11	30	15	1032	18	260	55	3486	-14
ST INIGOES WEBSTER	181	-27			61	29			355	54		
-MD: UPPER SOUTHERN-												
BALTIMORE WASH INTL	237	-57	289	-58	51	33	1339	176	298	81	3883	233
LAUREL 3 W	201	-40	232	-45	67	39	1456	64	343	72	4070	52
MD SCI CTR BALTIMOR	122	-69	127	-82	98	59	2019	355	442	121	4903	503
NATL ARBORETUM DC	189	-44			76	46			366	88		
OXON HILL	219	-27	259	-15	56	32	1377	-4	321	64	3974	-65
UPPER MARLBORO 3 NN	244	-45			48	27			293	67		
-MD: NORTHEASTERN SHORE-												
STEVENSVILLE	207	6	253	35	60	38	1390	164	327	35	3965	116
-MD: NORTHERN CENTRAL-												
ABERDEEN PHILLIPS F	240	-48	315	-25	44	24			293	68		
BRIGHTON DAM	295				31				240			
CONOWINGO DAM	278	7	380	72	28	8			236	1	3273	-549
CYLBURN	273	-33	365	-15	42	30	1074	194	259	60	3495	201
DAMASCUS 3 SSW	292	-34			34	24			242	55		
EMMITSBURG 2 SE	295	-58			33	22			242	72		
MILLERS 4 NE	305	-41	421	-16	37	27	921	126	238	62	3298	174
-MD: APPALACHIAN MOUNTAIN-												
CUMBERLAND 2	288	-8	368	10	47	30	1175	1	260	42	3654	-50
FROSTBURG 2	423	-45			22	19			153	47		
SHARPSBURG 5 S	324	-9	459	46	36	24			233	48		
WILLIAMSPORT	278	-53			40	31			262	81		
-MD: ALLEGHENY PLATEAU-												
OAKLAND 1 SE	443	-42			8	7			148	56		
KITZMILLER 1 W	387		551		19		657		178		2879	
-NJ: NORTHERN-												
BOONTON 1 SE	295	-88	409	-75	20	13			232	86		
CRANFORD	208	-129	284	-130	31	21			301	123		
FLEMINGTON 5 NNW	298	-87			23	15			229	78		
HARRISON	224	-54	281	-39	35	17	1302	108	293	69	3766	105
NEWARK INTL AP	210	-66	257	-64	47	30	1337	146	313	84	3849	187

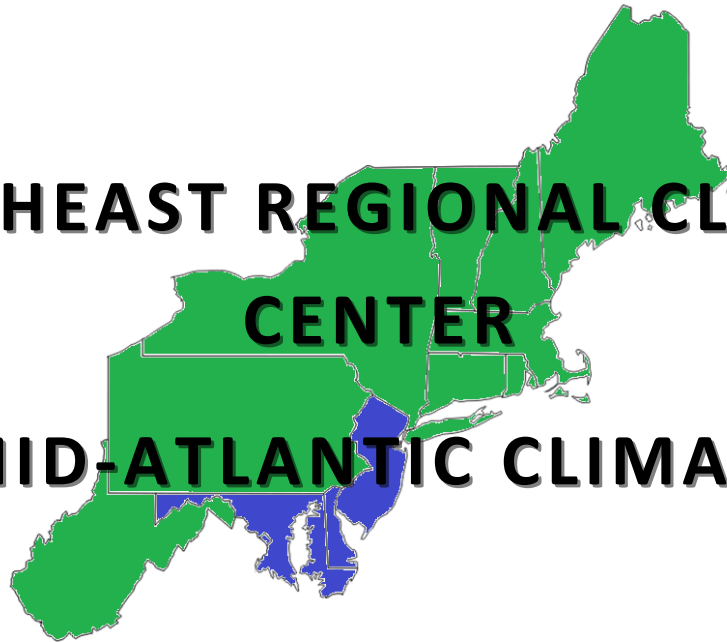
STATION	HEATING DEGREE DAYS (BASE 65)				COOLING DEGREE DAYS (BASE 65)				GROWING DEGREE DAYS (BASE 50)			
	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON
POTTERSVILLE 2 NNW	273		387		24				232		3122	
SUSSEX 2 NW	338	-121			12	9			199	93		
TOCKS ISLAND	327		492		19		740		209		2933	
-NJ: SOUTHERN-												
ATLANTIC CITY INTL	263	-33	365	7	36	16	1088	34	266	47	3426	-16
ESTELL MANOR	257	-71	372	-27	36	24	1032	60	279	92	3421	87
HAMMONTON 1 NE	259	-59	350	-35	44	28			283	81		
HIGHTSTOWN 2 W	283	-61	399	-32	33	21	1013	104	252	72	3306	90
INDIAN MILLS	284	-41	407	2	36	21	1081	135	255	58	3463	145
NEW BRUNSWICK 3 SE	257	-82	342	-72	31	19	1115	162	268	88	3486	217
SEABROOK FARMS	217		306		47				314			
SOMERDALE 4 SW	297		425		35		1001		246		3336	
ATSION	276		398		31				259			
TRENTON MERCER CO A	258	-74	346	-51	36	26	1077	112	267	88	3468	155
PHILADELPHIA MT HOL	261		355		37				272		3559	
-NJ: COASTAL-												
ATLANTIC CITY	175	-40	228	-15	38	17	958	-62	338	56	3417	-59
CAPE MAY 2 NW	179	-48	233	-27	51	26	1106	19	340	65	3616	44
LONG BRANCH OAKHURS	239	-52	333	-19	23	11			272	63	3273	103

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
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