

Northeast Regional Climate Center

Mid-Atlantic Climate

CONTENTS



CLIMATE DIVISION MAPS	1
OCTOBER WEATHER HIGHLIGHTS	2
DAILY AVERAGE TEMPERATURES AND THE 30-YEAR NORMAL.....	7
MONTHLY TEMPERATURE MAPS.....	9
MONTHLY PRECIPITATION MAPS	10
MONTHLY SNOWFALL MAPS.....	11
PRELIMINARY MONTHLY SUMMARIZED DATA OCTOBER 2011	12
PRELIMINARY MONTHLY DEGREE DATA OCTOBER 2011	14

OCTOBER 2011

VOLUME 111 NUMBER 10

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

Address: Phone: (607)255.1751

1123 Bradfield Hall Fax: (607)255.2106

Cornell University Email: nrcc@cornell.edu

Ithaca, NY 14853

NRCC Staff:

Dr. Arthur DeGaetano
Director
Mr. William Noon
Computer Analyst

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

Ms. Kathryn Vreeland
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



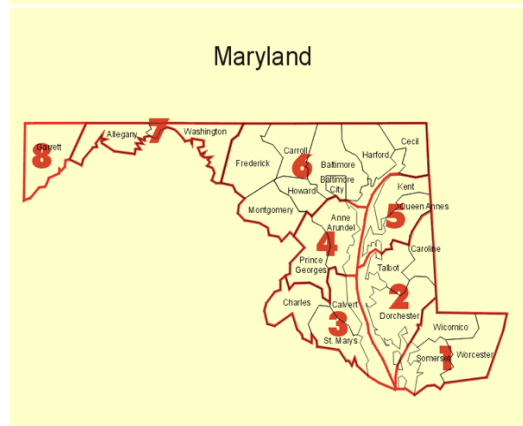
New Jersey Climate Divisions

- 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

OCTOBER WEATHER HIGHLIGHTS

The Mid-Atlantic region averaged warmer than normal for the ninth month in a row. October's temperature average was 56.0 degrees, which was only 0.4 degrees above normal. This was the first month since January 2011 that not all the states in the region had normal or above normal temperature averages. Maryland ended the month with a negative departure, -0.3 degrees. New Jersey (+1.6) and Delaware (+0.2) each continued the warmer than normal trend that began in February. Two New Jersey locations, Newark and New Brunswick, topped out at a record-setting 88 degrees: Newark on the 9th and New Brunswick on the 10th. Smithsburg, MD, in the Northern Central climate division, reported the low for the month, 20 degrees on the 31st.

October was the third consecutive month that the Mid-Atlantic averaged wetter than normal. The regional average of 4.10 inches was 112% of normal. Maryland (117%) and New Jersey (110%) each saw above normal precipitation, but Delaware's total was 89% of normal. Oakland, MD, in the Allegheny Plateau, had the highest precipitation total this month, 6.73 inches.

For the third time in three months, a major weather event impacted one or more of the Mid-Atlantic states. After enduring a hurricane in August and the remnants of a tropical storm in September, residents in parts of region had to deal with up to 9 inches of heavy, wet, snow on October 29th and 30th. Trees still in leaf succumbed to the weight of the snow, causing more tree damage and power outages in New Jersey than Hurricane Irene did in August. About one million customers lost power during the storm. A week later, nearly 8,000 New Jersey residents were still in the dark. The downed trees and power lines also closed roads and disrupted rail service. At least eight deaths in New Jersey were directly attributed to the storm.

Snowfall Records (inches)

Daily

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Wilmington, DE	29	0.3	T in 2002
Washington National, DC	29	T	T in 1925
Washington Dulles, DC	29	0.6	never before
Baltimore, MD	29	T	T in 1952
Atlantic City, NJ	29	T	T in ???
Newark, NJ	29	5.2	T in 2002

Monthly

<u>Station</u>	<u>New</u>	<u>Previous</u>
Newark, NJ	5.2	0.3 in 1952

Precipitation Records (inches)

Daily

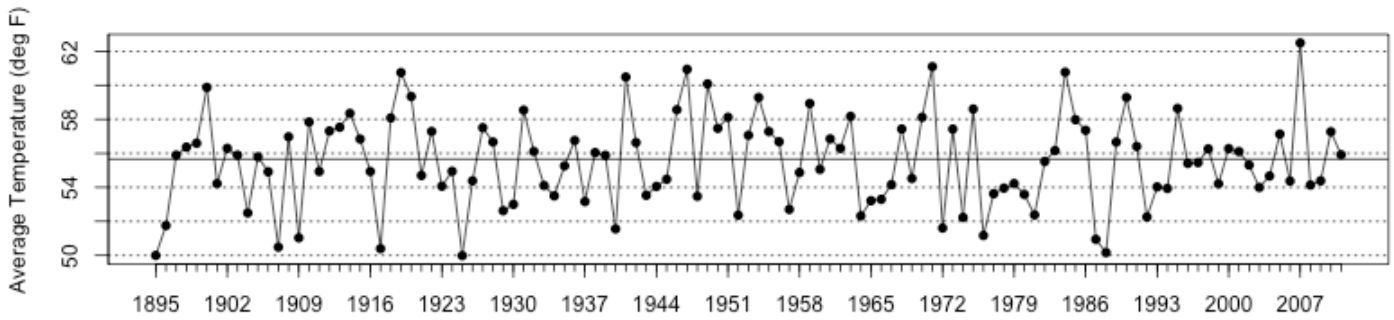
<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Washington Dulles	13	1.92	0.85 in 1983
Washington Dulles	29	1.03	0.84 in 1973

Temperature Records (degrees F)

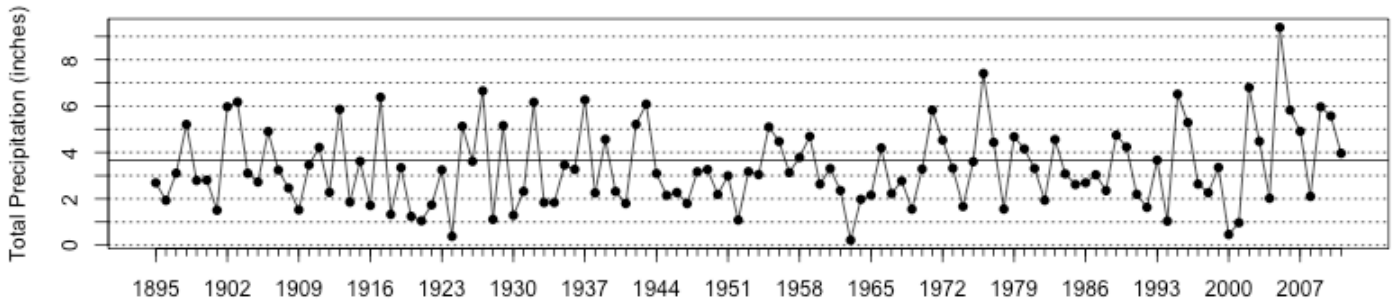
Maximum Temp

<u>Station</u>	<u>Date</u>	<u>New</u>	<u>Previous</u>
Newark, NJ	9	88	87 in 1990
New Brunswick, NJ	10	88	84 in 1990

Mid Atlantic Average October Temperatures



Mid Atlantic October Precipitation Totals



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

Another Record-Shattering Month October 2011 Summary

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

The record-shattering weather year of 2011 continues. Up until the last few days of the month, October looked to be providing NJ with a breather from the wild side of things. However along came the most significant October snowstorm on record on the 29th and quiescent conditions went out the window. The liquid equivalent of the snow and more modest rains earlier in the month brought the Jersey-wide precipitation total for the year to 56.91". Thus we enter the last two months of the year needing only 3.08" of precipitation to eclipse the calendar year record of 59.98" back in 1996. The average combined precipitation for the last two months of the year is 7.54", thus with just over 40% of average precipitation a new record will be established. A record still within the realm of possibility is the wettest of any consecutive twelve month period. Currently that record is the 66.60" falling between April 2009 and March 2010.

October was the 9th consecutive month with above-average temperatures across the Garden State. Seventeen of the past twenty months have been in the positive temperature anomaly column. The 55.9° October average ties 1898 for the 38th warmest since 1895 and is 1.1° above the 1981-2010 statewide average. The warmest episode of the month occurred from the 8th-10th. Haworth (Bergen County) and Hawthorne (Passaic) reached 82° on the 8th. The 9th was the warmest day, with New Brunswick topping out at 88°, 87° reached at five other locations (of the over 50 stations in the [NJ Weather and Climate Network \(NJWxNet\)](#)), and 85° at five others. Only West Cape May (Cape May) at 77° and High Point Monument (Sussex) at 78° failed to reach 80°. The 10th brought a high of 86° to New Brunswick and 85° to Jersey City (Hudson) and Howell (Monmouth).

Despite nighttime temperatures falling to between 33° and 39° on thirteen occasions, it wasn't until High Point Monument and High Point (Sussex, 1385 foot elevation) fell to 31° and 32° late on the evening of the 27th that any location in NJ fell to the freezing point this fall season. This was followed by a widespread freeze in non-urban areas of north Jersey and the Pine Barrens on the morning of the 28th. Walpack (Sussex) and High Point Monument fell to 26°, with other stations between 30°-32°. This first freeze is 2-3 weeks later than average in these areas. Even more of NJ fell below freezing during the snow on the 29th, with all stations between 30°-32° except the two High Point stations at 28°. West Cape May stayed the warmest at 38°.

With snow cover, High Point and Walpack dropped to 25° on the 30th, with widespread upper 20°s. Halloween dawned as the coldest morning of the season thus far, with Berkeley Township (Ocean) and Pequest (Warren) at 21°, and Kingwood (Hunterdon) at 22°. All NJWxNet stations fell below freezing except Atlantic City Marina (Atlantic), Harvey Cedars (Ocean), and Seaside Heights (Ocean), which made it through October without a freezing temperature.

While not an exceptionally wet month, the 4.39" that fell on average across NJ was 0.46" above average and ranked as the 34th wettest of the past 117 Octobers. The Highlands region of north Jersey and coastal north Jersey were the wettest areas of the state in October. As a reminder, this includes rainfall and melted snowfall (known as snow water equivalent). Vernon Township (Sussex) came in with 7.59" and Ocean Township (Monmouth) received 7.04". Other large totals included Randolph Township (Morris) 6.36", West Milford (Passaic) 6.33", and Little Falls (Passaic) and Brick Township (Ocean) both with 6.25". The Cape May County towns of Sea Isle City (2.74"), Stone Harbor (2.87"), and Wildwood Crest (2.91") had the lowest October totals. Hainesport (Burlington) was next with 3.12".

These monthly totals include light rainfall during the afternoon and evening of September 30, rain that picked up in intensity early on the morning of the 1st (this a function of the 7AM observing time for most of the CoCoRaHS stations used in the precipitation summary). This rain continued into the 2nd and brought as much as 1.96" to Brick Township, and 1.65" to both Ocean Township and

Belmar (Monmouth). As seen later in the month, the southern coastal counties had the lowest totals. The northwest corner had about 0.50" on the 4th, with Lafayette Township topping the list at 0.62". A statewide event on the 12th into the early 13th saw less than 0.50" fall except for the coastal north, where Belmar (Monmouth) saw 0.98" and Berkeley Township (Ocean) 0.85".

The northern half of NJ was soaked on the 14th, with overnight and afternoon thunderstorms depositing as much as 1.80" in Randolph Township, 1.71" in River Vale (Bergen), and 1.45" in West Milford (Passaic).

A more widespread storm on the 19th into the early 20th saw most of NJ receive between 0.50"-1.00". The area from Monmouth County into northeast counties generally had 1.00"-1.50" totals, with 1.93" in Eatontown (Monmouth) and 1.89" at Red Bank (Monmouth). The 27th to early on the 28th brought under 0.25" to the southern half of the state and 0.25"-0.75" to the north. High Point received 0.96", River Vale 0.93", North Haledon (Passaic) 0.91", and Newton (Sussex) 0.90". This event also brought the first snow of the season to the Garden State. Higher elevations saw as much as 0.3" in West Milford and 0.1" in the Barry Lakes area of Vernon Township (Sussex).

The precipitation finale of the month was certainly grand. Rain began in south Jersey early on the 29th and spread north after dawn. Some northern areas saw the precipitation begin as snow, while during the morning the rain turned to snow in all of central and northern NJ. Moderate to heavy snow continued into the afternoon, occasionally mixing with sleet in lower elevations. Areas in the south, especially toward the southwest, also saw some snow and sleet mix in with the rain during the morning and afternoon. Thunder was heard in some locations, as the heavy, very wet snow continued. Once the snow tapered off in the early hours of the 30th NJ had experienced its largest October snowstorm at least since the late 18th century. As much as 19.1" was measured in the Barry Lakes area of Vernon Township (1250 foot elevation). 19.0" was also recorded at higher elevations in West Milford (Passaic). For a county by county listing of storm snow totals and a map showing accumulations, visit:

<http://climate.rutgers.edu/stateclim/?section=menu%20target=wint1112snowtotals#10-29/10-30-11>

Little more than an inch fell in the south. Once up to the Rt. 1 corridor of central NJ, 3-5" totals were observed. Northern areas generally saw 5-9" in lower elevations and 9" to over a foot higher up, with foot plus totals confined to elevations over 1000 feet. Rain and melted snow amounted to 1.50"-2.00" of liquid in the central third of NJ, with the southern and northern thirds catching between 1.00"-1.50".

The Barry Lakes total is a record for October, surpassing the previous record of 14.0" at High Point on October 28, 2008. The 2008 event was by far the heaviest October event on record until the 2011 "thumping". Previous October storms have rarely totaled more than several inches, even at the highest locations. Not only is the 19.1" single event at Barry Lakes a record storm for October, but it also surpasses any early season total up to December 11-12, 1960, when 21.0" fell at Flemington! Thus it is not surprising that the 19.3" for the month at West Milford is a monthly record for October.

Once several inches had accumulated, branches and entire trees began to snap and crash onto homes, power lines, and automobiles. Tragically, one person in Summit (Union) was killed while driving. By storm's end, over 600,000 customers had lost power, some remaining in the dark for a week or longer following the event. All told, eight NJ residents lost their lives due to storm-related traffic accidents, a house fire spawned by a fallen line, and carbon monoxide poisoning from efforts to keep warm using a generator. While the number of outages did not equal the million from Hurricane Irene, they were concentrated in a smaller area of the state. Some schools were closed for the week following this Saturday storm due to the lack of power and the dangers of navigating roads and sidewalks due to the tremendous tree damage and fallen lines. The storm also resulted in Halloween activities being canceled, postponed or adjusted in a number of communities.

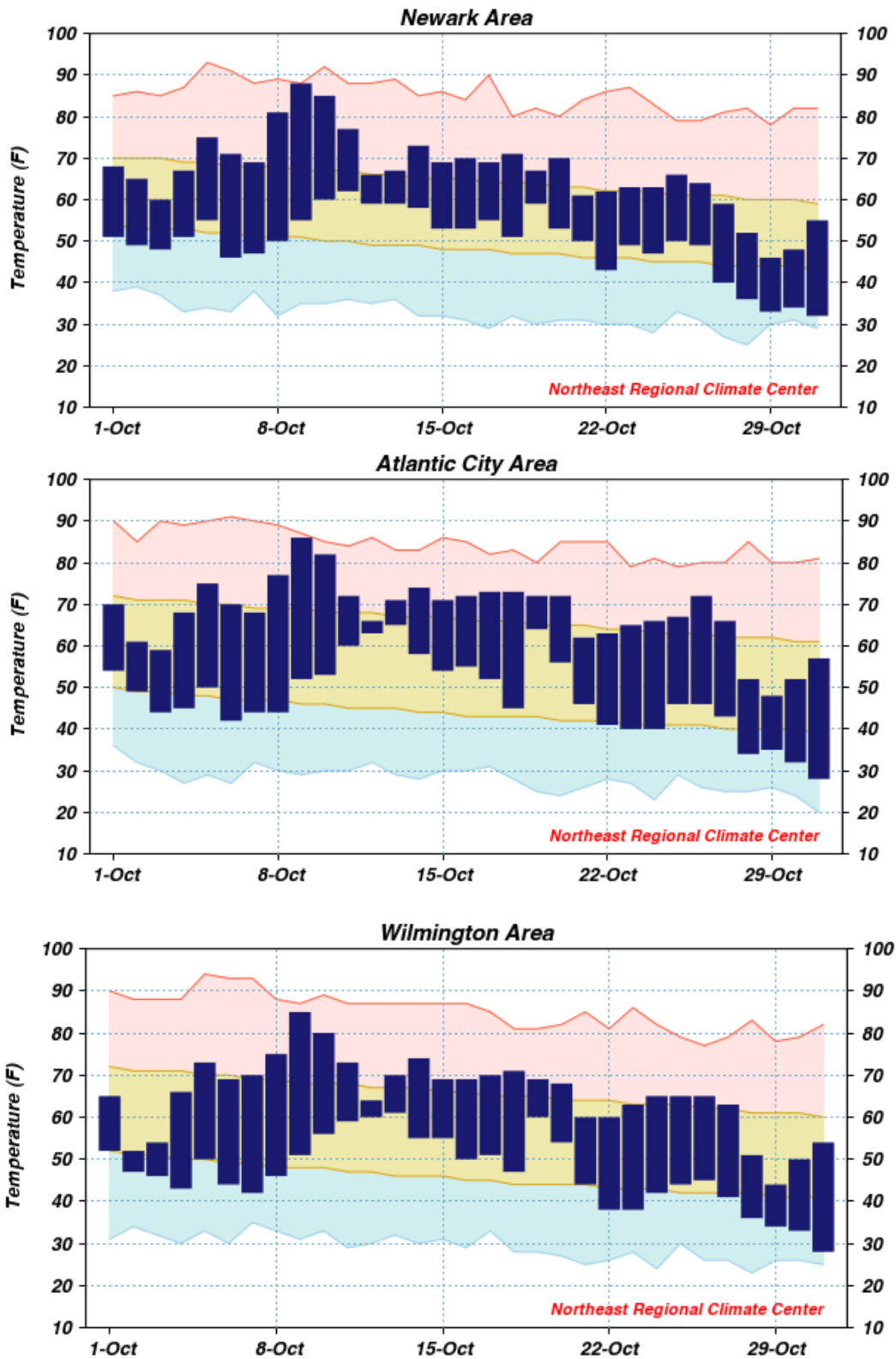
While winds were not excessive in the areas receiving snow, they howled on the 29th along the Jersey shore. Atlantic City Marina saw a gust to 56 mph, Seaside Heights 51 mph, Harvey Cedars 49 mph, Point Pleasant (Ocean) 40 mph, and Bivalve (Cumberland) 40 mph.

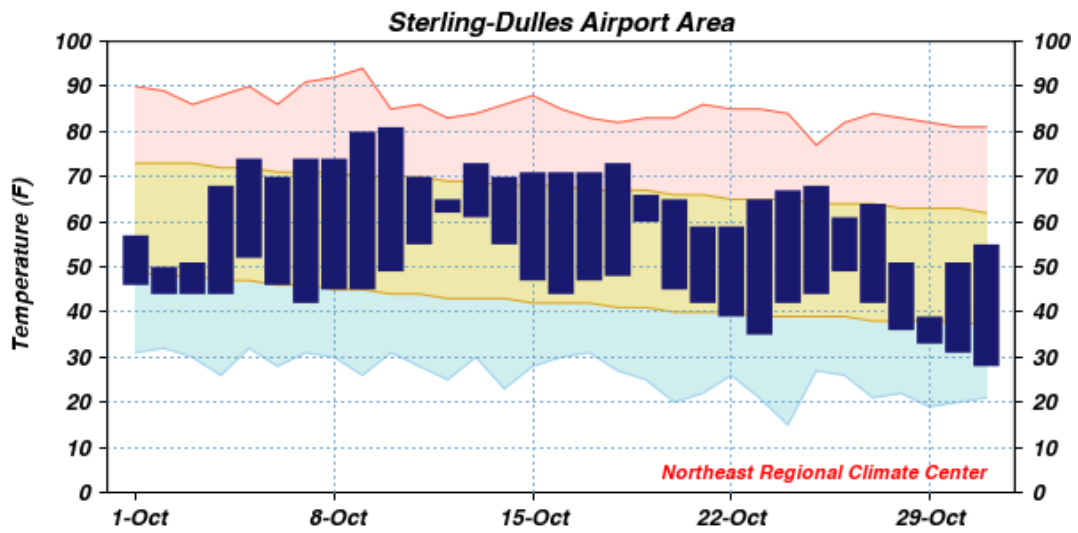
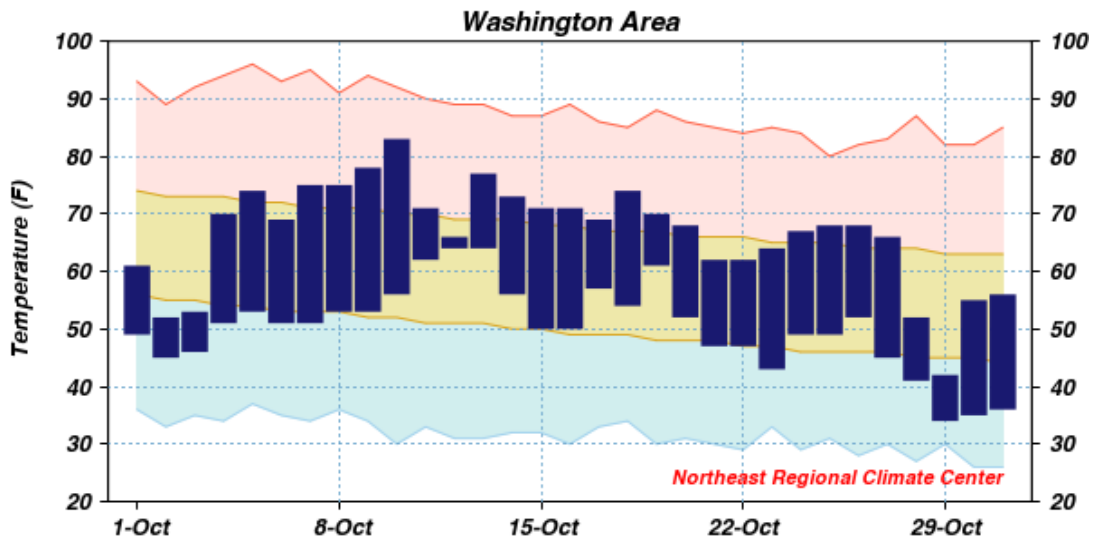
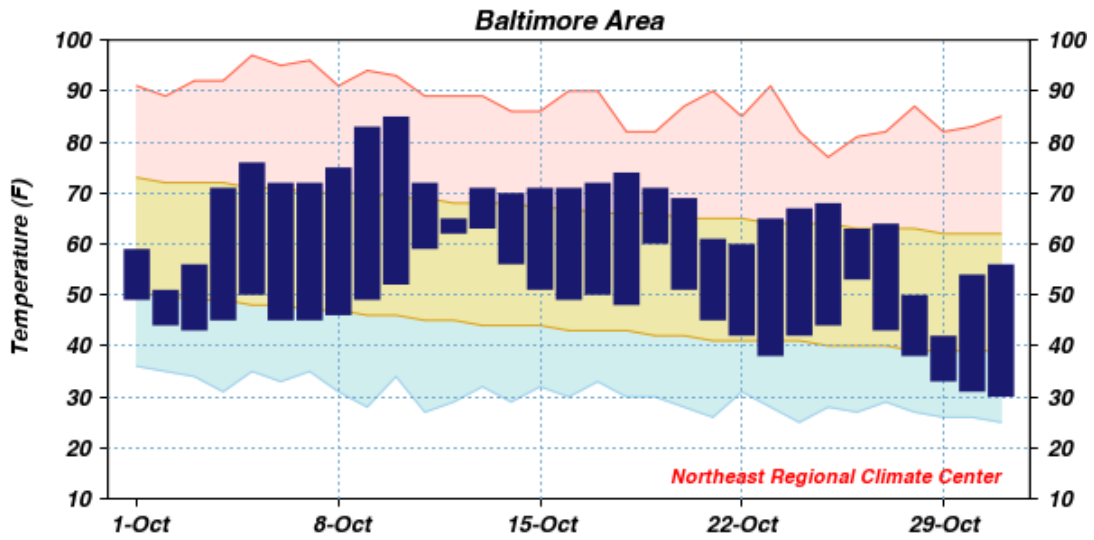
Other occasions with wind gusts equaling or exceeding 40 mph during October included 42 mph at High Point Monument on the 5th, 41 mph in Hillsborough (Somerset) on the 14th, and 43 mph and 40 mph at Atlantic City Marina on the 15th and 16th, respectively. High Point Monument gusted to 45 mph and Seaside Heights to 44 mph on the 19th, Atlantic City Marina to 45 mph and Bivalve to 44 mph on the 20th, and High Point Monument to 48 mph on the 25th.

The highest barometric pressure of the month occurred on the 8th, with many locations ranging between 30.50"-30.55". The 19th and 20th saw lows of 29.30"-29.35". Fog was reported on the 2nd, 4th, 13th, 14th and 27th at various locations around the state.

One certainly has to wonder what weather surprises November and December might bring. More record shattering conditions? An annual rainfall record? Stay tuned...

DAILY AVERAGE TEMPERATURES AND THE 30-YEAR NORMAL



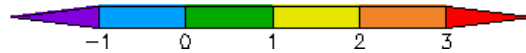
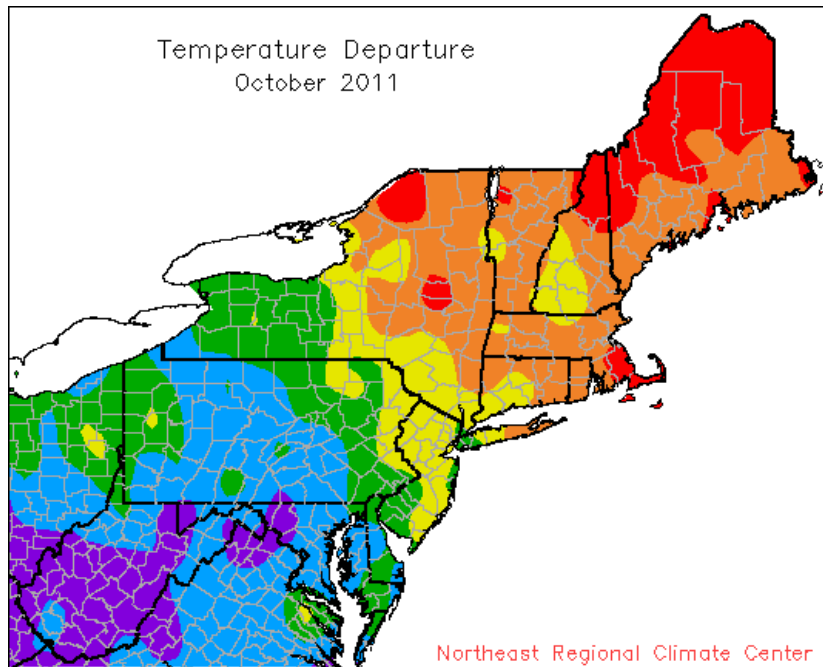
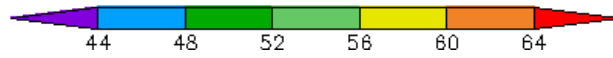
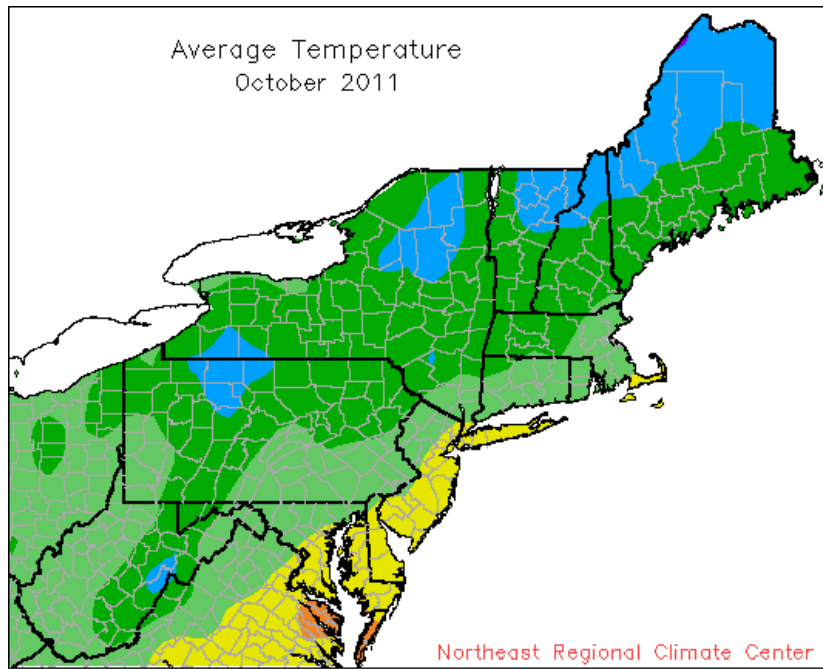


Area between normal max and min temperatures has tan shading.

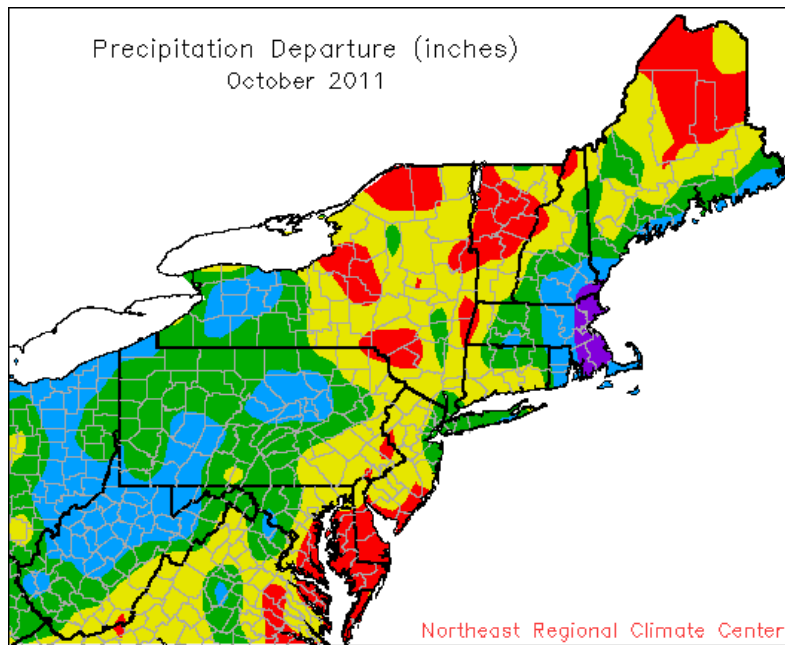
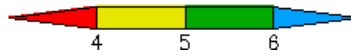
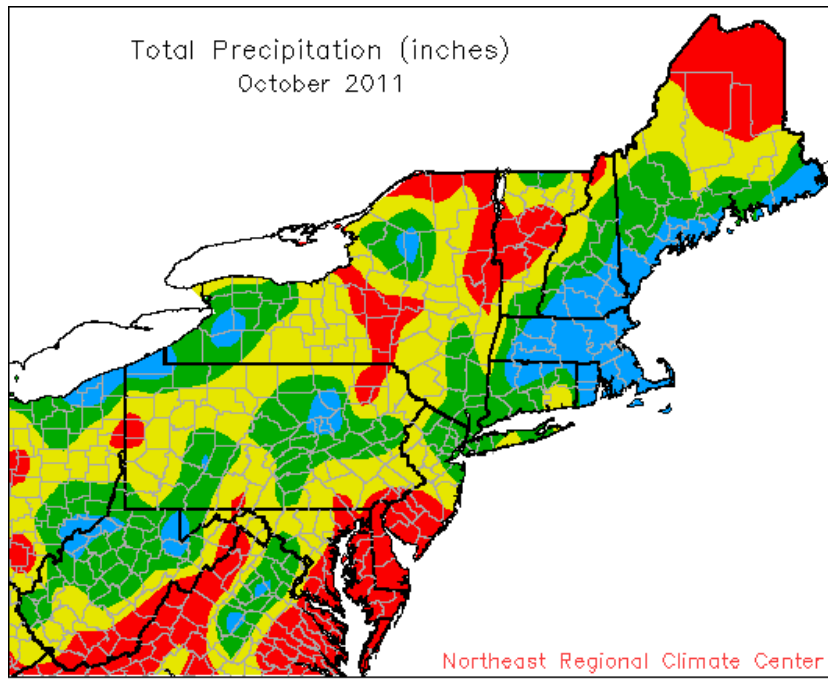
Red line connects record high temperatures.

Light blue line connects record low temperatures.

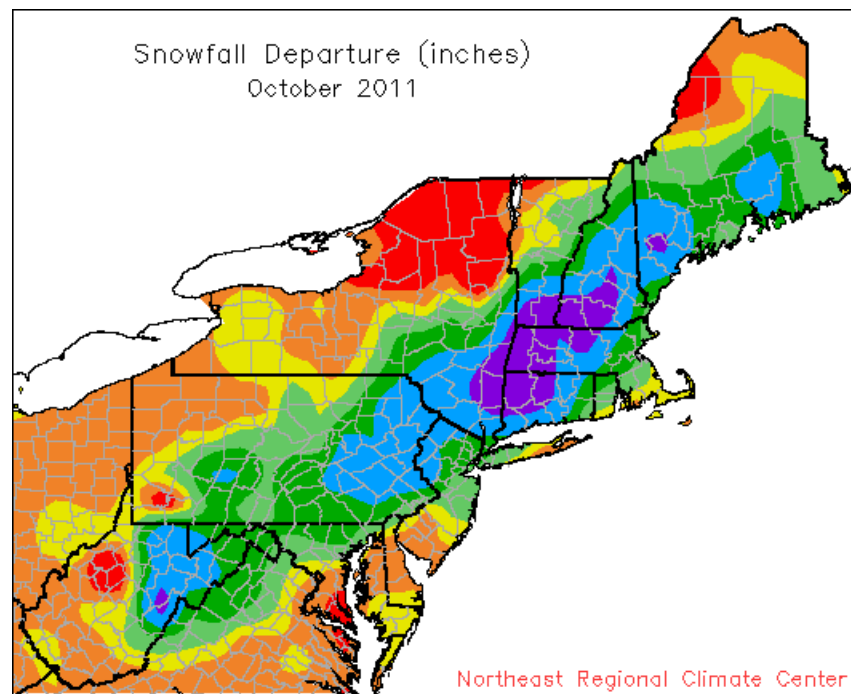
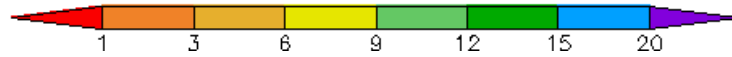
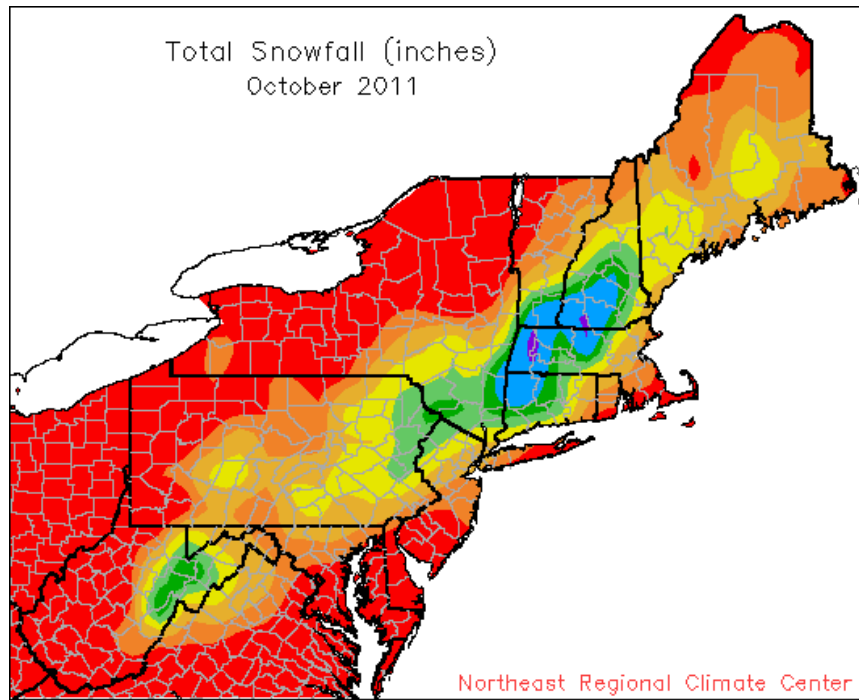
MONTHLY TEMPERATURE MAPS



MONTHLY PRECIPITATION MAPS



MONTHLY SNOWFALL MAPS



PRELIMINARY MONTHLY SUMMARIZED DATA OCTOBER 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 90+	DAY 70-	MON 65+	DAY 50-	MON TOT	DEPRT TOT	DAYS 0.1+	DLY MAX	DAY MAX	MON TOT	DLY MAX			
-DE: NORTHERN-																				
BEAR 2 SW	65.2	45.7	55.5	0.6	83	9	27	31	0	24	0	21	3.51	-0.00	7	1.43	29	0.3	0.3	29
WILMINGTON NEW CAS	65.4	46.8	56.1	-0.1	85	9	28	31	0	24	0	20	3.05	-0.37	6	1.26	29	0.3	0.3	29
WILMINGTON PORTER R	63.3	48.1	55.7	-0.1	79	9	32	31+	0	26	0	21	3.75	-0.06	8	1.39	29	1.3	1.3	29
-DIVISION-			55.8	-0.3									3.44	-0.17					0.6	
-DE: SOUTHERN-																				
DOVER	68.1	48.4	58.2	-0.5	82	9	32	31	0	18	0	18	3.17	-0.25	5	1.57	30	NM		
-DIVISION-			58.2	0.3									3.17	-0.45						
-STATE-			57.7	0.2									3.23	-0.39					0.1	
-MD: SOUTHEASTERN-																				
SALISBURY WICOMICO	69.8	48.0	58.9	1.7	85	10	29	31	0	13	3	22	2.00	-1.49	2	0.92	29			
-DIVISION-			58.9	0.1									2.00	-1.36						
-MD: CENTRAL EAST-																				
ROYAL OAK 2 SSW	68.4	50.0	59.2	-0.4	82	10	31	31	0	16	1	16	2.44	-1.28	6	1.43	29	NM		
-DIVISION-			59.2	0.3									2.44	-1.04						
-MD: LOWER SOUTHE-																				
MECHANICSVILLE 5 N	65.0	45.8	55.4	-0.2	77	11	29	31	0	24	0	24	3.07	-0.63	4	1.18	29			
SOLOMONS	68.1	53.7	60.9	-0.5	81	1	35	30	0	17	3	9								
-DIVISION-			58.2	1.1									3.07	-0.55						
-MD: UPPER SOUTHE-																				
BALTIMORE WASH INT	66.3	47.0	56.6	0.5	85	10	30	31	0	17	0	22	3.31	-0.02	8	1.09	29	T	T	
BELTSVILLE	65.7	47.3	56.5	0.1	82	11+	29	31	0	18	0	20	4.42	0.75	10	0.93	14	0		
DALECARLIA RSVR	64.3	46.6	55.5	-2.3	82	11	31	31	0	22	0	23								
LAUREL 3 W	65.5	48.0	56.7	-1.4	84	10	32	30+	0	20	0	21	4.26	0.28	8	1.10	29	NM		
BALTIMORE DOWNTOWN	68.4	53.5	61.0	0.9	86	10	37	30	0	15	3	10	2.67	-0.38	7	0.90	29	NM		
NATL ARBORETUM DC	70.1	47.5	58.8	0.3	87	11	31	31	0	13	0	22								
OXON HILL	66.3	48.0	57.1	-0.8	81	11	32	31	0	19	0	22	3.81	0.09	11	0.81	30			
UPPER MARLBORO 3 N	67.0	45.6	56.3	-0.1	83	10	28	31	0	20	0	23	3.58	-0.02	9	1.50	30	T	T	
-DIVISION-			57.3	0.4									3.67	0.01				0		
-MD: NORTHEASTERN-																				
STEVENSVILLE	65.8	51.1	58.4	-0.9	79	10	33	30	0	21	1	13	2.35		6	0.72	30	0		
-DIVISION-			58.4	1.2									2.35	-1.19				0		
-MD: NORTHERN CEN-																				
ABERDEEN PHILLIPS	65.4	46.6	56.0	-0.4	83	10	29	31	0	21	0	23								
BRIGHTON DAM													4.28		8	0.98	14			
CATOCTIN MTN PK	60.5	44.6	52.5	-2.2	78	9	27	30	0	27	0	25	6.53	2.81	11	1.11	2			
CONOWINGO DAM													6.01	1.89	10	1.63	12			
CYLBURN	62.6	46.4	54.5	-1.0	76	10	29	31	0	27	0	22							NM	
DAMASCUS	61.5	45.1	53.3	-1.5	77	10+	28	31+	0	28	0	25	6.07	2.35	10	1.25	30			NM
EMMITSBURG 2 SE	62.0	44.1	53.0	-1.0	77	11	27	31	0	26	0	25	5.04	1.66	8	1.15	20	3.0	3.0	30
FREDERICK 2 NNE	64.3	45.1	54.7	-1.1	79	10	29	31	0	21	0	25	4.51	0.98	9	1.05	20			
MILLERS 4 NE	63.2	44.6	53.9	-0.3	81	9	27	31+	0	24	0	24	4.66	0.91	9	1.22	29	6.1	5.9	29
SMITHSBURG *	62.8	42.4	52.6	-1.1	75	11+	20	31												
-DIVISION-			53.8	-1.6									5.36	1.71					4.5	
-MD: APPALACHIAN -																				
CUMBERLAND 2	63.2	44.2	53.7	-2.3	77	10+	29	31+	0	21	0	27	3.84	1.27	11	0.78	2			
FROSTBURG 2	57.4	41.1	49.2	-0.8	77	11+	26	31+	0	28	0	29	6.12	3.08	12	1.62	2			
SHARPSBURG 5 S	63.0	42.1	52.5	-2.1	77	10	24	31+	0	22	0	27								
WILLIAMSPORT	64.0	44.5	54.2	-0.4	78	10	29	31	0	21	0	26	4.98	1.92	10	0.90	2	0		
-DIVISION-			52.4	-0.6									4.98	2.08				0		
-MD: ALLEGHENY PL-																				
OAKLAND 1 SE	57.9	38.6	48.3	-1.1	78	10	27	30+	0	25	0	29	6.73	3.58	15	1.13	27	5.8	5.8	29
SAVAGE RIVER DAM													4.47	1.81	12	0.74	2	NM		
KITZMILLER 1 W	60.0	41.7	50.9		77	10	30	31+	0	25	0	29						NM		
-DIVISION-			49.6	-0.2									6.73	3.81				5.8		
-STATE-			55.7	-0.3									4.07	0.60				1.9		

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	MAX	MIN	90+	70-	65+	50-	MON TOT	DEPRT 0.1+	DAYS	DLY MAX	DAY	MON TOT	DLY MAX
-NJ: NORTHERN-																			
BELVIDERE BRG *	64.1	41.9	53.0	0.2	83	10	24	29					4.25	-0.29	10	0.66	20		
BOONTON 1 SE	65.2	45.1	55.2	2.3	85	10	27	31	0	24	0	22	4.38	-0.12	9	1.24	30		
BOUND BROOK 2 W	64.1	48.6	56.4		78	10	30	31	0	24	0	19	4.96	0.92	11	1.61	30	2.5	2.5
CANOE BROOK	65.2	46.4	55.8	2.6	85	10	28	31	0	24	0	23	4.18	-0.47	9	1.07	20		
CHARLOTTEBURG RSVR	62.6	44.1	53.4	1.4	82	10	26	31	0	26	0	23						NM	
CRANFORD	65.3	49.9	57.6	3.2	87	10	30	31	0	24	0	15	6.14	1.78	10	2.10	30	5.3	5.3
FLEMINGTON 5 NNW *	66.4	46.0	56.2	3.4	83	10	33	28											
HARRISON	65.7	48.7	57.2	0.6	86	10	31	31	0	25	0	19	5.93	2.05	10	1.76	30		
NEWARK INTL AP	66.7	49.6	58.1	1.5	88	9	32	31	0	23	0	16	5.80	2.20	7	1.81	29	5.2	5.2
PHILLIPSBURG EASTO	65.2	45.2	55.2	2.7	86	10	27	31	0	23	0	24	4.63		10	0.83	20		
PLAINFIELD	65.5	47.8	56.7	1.6	83	9	28	31+	0	23	0	20							
POTTERSVILLE 2 NNW	61.2	46.7	53.9		75	10	31	31	0	27	0	24	4.38	-0.24	9	1.28	30	5.0	5.0
SUSSEX 2 NW	62.6	43.1	52.9	2.6	83	10	23	31	0	25	0	26							
WAYNE	65.6	48.0	56.8		82	10	29	31	0	24	0	18	6.03		9	1.65	30	7.0	7.0
WERTSVILLE 4 NE *	64.2	45.1	54.7	1.9	84	10	27	31											
TOCKS ISLAND	63.2	44.3	53.7		82	10	28	31	0	25	0	26						NM	
-DIVISION-			55.4	2.7									5.07	0.71				5	
-NJ: SOUTHERN-																			
ATLANTIC CITY INTL	67.8	47.7	57.8	1.7	86	9	28	31	0	17	1	19	3.00	-0.42	4	1.43	29	T	T
ESTELL MANOR	67.5	45.4	56.4	1.6	83	10	27	31	0	17	1	23	4.37	0.44	8	1.31	30	T	T
FREEHOLD MARLBORO	66.5	45.1	55.8	1.0	84	10	27	31	0	22	0	24	4.74	1.07	8	1.15	30		
HIGHTSTOWN 2 W	66.6	45.4	56.0	1.7	85	10	24	31	0	23	0	22	3.97	0.32	8	1.51	30	2.5	2.5
INDIAN MILLS	66.9	44.8	55.9	0.9	84	9	25	31	0	23	0	22	3.76	-0.04	7	1.48	29	NM	
MILLVILLE MUNI AP*	66.0	45.6	55.8	0.6	84	9	26	31										NM	
MOORESTOWN *	65.9	46.9	56.4	0.1	81	9	29	31											
NEW BRUNSWICK 3 SE	67.7	45.5	56.6	2.2	88	10	26	31	0	22	0	23	5.21	1.41	8	2.12	30	3.0	3.0
SEABROOK FARMS	66.9	48.8	57.8	0.9	83	10	30	31+	0	18	0	19	4.07	0.48	10	1.66	30	0	
SOMERDALE 4 SW	63.1	43.5	53.3		78	10	26	31	0	26	0	26	4.21	0.63	9	1.52	30		
ATSION *	65.9	44.8	56.2		83	10	20	31	0	22			3.44		8	1.10	30	NM	
TRENTON MERCER CO	66.1	47.5	56.8	2.2	86	9	28	31	0	23	0	19	3.03	-1.15	6	1.38	29	NM	
PHILADELPHIA MT HO	66.0	46.5	56.2		85	10	28	31	0	21	0	23	3.55		9	1.52	30	1.1	1.1
-DIVISION-			56.2	0.9									3.94	0.25				1.1	
-NJ: COASTAL-																			
ATLANTIC CITY	65.6	53.4	59.5	0.8	83	10	36	31+	0	26	1	9	2.73	-0.74	6	1.22	30	NM	
BRANT BEACH HVN	66.1	53.9	60.0	1.8	80	10	37	30	0	23	3	7	3.46	-0.19	6	1.37	30	NM	
CAPE MAY 2 NW	67.2	50.7	59.0	0.5	81	10	30	31	0	18	0	14	2.52	-1.18	6	1.15	29	T	T
LONG BRANCH OAKHUR	65.7	47.3	56.5	0.5	84	11+	30	31	0	24	0	20	6.16	1.74	7	1.84	30	NM	
-DIVISION-			58.8	1.2									3.72	0.16				0	
-STATE-			56.1	1.6									4.34	0.41				2.5	

*= 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 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	291	-32	322	-58	1	-9	1288	269	212	26	3885	469
WILMINGTON NEW CAST	276	-16	306	-38	8	-10	1436	291	232	15	4061	447
WILMINGTON PORTER RS	293	-7	331	-26	12	-3			221	13		
-DE: SOUTHERN-												
DOVER	217	-9			13	-19			282	-4		
-MD: SOUTHEASTERN SHORE-												
SALISBURY WICOMICO	209	-56	225	-88	28	3	1716	566	304	57	4487	815
-MD: CENTRAL EASTERN SHORE-												
ROYAL OAK 2 SSW	189	-14			16	-19			312	5		
-MD: LOWER SOUTHERN-												
MECHANICSVILLE 5 NE	294	-14	323	-54	4	-11	1209	195	204	-1	3804	304
SOLOMONS	152	1	159	-4	32	-6			361	5		
-MD: UPPER SOUTHERN-												
BALTIMORE WASH INTL	261	-33	288	-59	9	-9	1558	395	247	30	4260	610
BELTSVILLE	265	-21	287	-50	11	-9	1500	263	246	19	4176	431
DALECARLIA RSVR	298	47	330	40	11	-18	1610	204	220	-47	4325	277
LAUREL 3 W	264	23			15	-13			255	-16		
BALTIMORE DOWNTOWN	160	-31	166	-43	46	7			366	45		
NATL ARBORETUM DC	207	-26			25	-5			307	29		
OXON HILL	246	0	267	-7	10	-14	1596	215	258	1	4327	288
UPPER MARLBORO 3 NN	270	-19	295	-51	7	-14	1521	326	235	9	4192	487
-MD: NORTHEASTERN SHORE-												
STEVENSVILLE	205	4	221	3	9	-13	1611	385	293	1	4367	518
-MD: NORTHERN CENTRAL-												
ABERDEEN PHILLIPS F	277	-11	310	-30	4	-16			229	4		
CATOCTIN MTN PK	378	45			0	-12			157	-34		
CYLBURN	317	11	356	-24	1	-11			193	-6		
DAMASCUS	358	32	417	11	0	-10			174	-13	3735	426
EMMITSBURG 2 SE	362	9	414	-32	0	-11	1034	175	161	-9	3487	321
FREDERICK 2 NNE	312	13			0	-12			198	-11		
MILLERS 4 NE	337	-9	377	-60	0	-10	1133	338	188	12	3694	570
-MD: APPALACHIAN MOUNTAIN-												
CUMBERLAND 2	342	46			0	-17			178	-40		
FROSTBURG 2	481	13	616	-60	0	-3	554	147	96	-10	2711	326
SHARPSBURG 5 S	377	44	432	19	0	-12	1068	196	154	-31	3517	294
WILLIAMSPORT	327	-4			0	-9			185	4		
-MD: ALLEGHENY PLATEAU-												
OAKLAND 1 SE	512	27	681	-39	0	-1	475	149	78	-14	2585	344
KITZMILLER 1 W	432								112			
-NJ: NORTHERN-												
BOONTON 1 SE	306	-77			9	2			210	64		

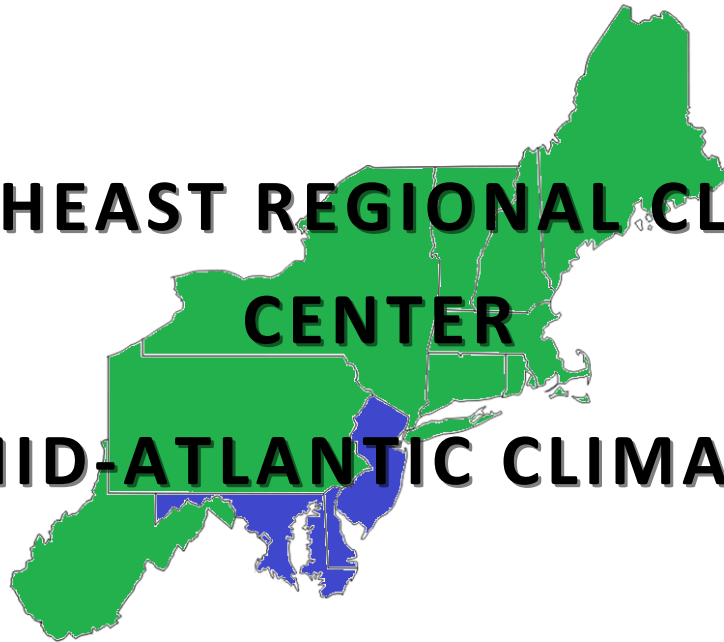
STATION	HEATING DEGREE DAYS (BASE 65)				COOLING DEGREE DAYS (BASE 65)				GROWING DEGREE DAYS (BASE 50)			
	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON	MONTH	MONTH	SEASON	SEASON
BOUND BROOK 2 W	267		290		8		1380		243		3960	
CANOE BROOK	285	-90			9	0			226	70		
CHARLOTTEBURG RSVR	358	-52			4	-2			163	33		
CRANFORD	241	-96			19	9			275	97		
HARRISON	249	-29			17	-1			268	44		
NEWARK INTL AP	227	-49	246	-75	22	5	1585	394	291	62	4259	597
PHILLIPSBURG EASTON	299	-95			2	-5			210	72		
PLAINFIELD	270	-49	303	-81	17	4	1376	326	257	64	3938	489
POTTERSVILLE 2 NNW	337								0	166		
SUSSEX 2 NW	371	-88			3	0			156	50		
WAYNE	258								10	253		
TOCKS ISLAND	342		401		1		826		171		3190	
-NJ: SOUTHERN-												
ATLANTIC CITY INTL	232	-64	260	-98	15	-5	1465	411	278	59	4129	687
ESTELL MANOR	269	-59	296	-103	10	-2	1334	362	236	49	3938	604
FREEHOLD MARLBORO	284	-43	317	-80	7	-4			226	38		
HIGHTSTOWN 2 W	280	-64	318	-113	9	-3			233	53		
INDIAN MILLS	281	-44			6	-9			227	30		
NEW BRUNSWICK 3 SE	264	-75	295	-119	13	1			252	72		
SEABROOK FARMS	232	-39			18	-4			281	43		
SOMERDALE 4 SW	356		400		0		1266		163		3732	
TRENTON MERCER CO A	256	-76	283	-114	12	2	1437	472	254	75	4080	767
PHILADELPHIA MT HOL	273		306		9		1258		233		3817	
-NJ: COASTAL-												
ATLANTIC CITY	185	-30	201	-42	22	1	1221	201	320	38	3822	346
BRANT BEACH HVN	175	-56			26	6			335	69		
CAPE MAY 2 NW	193	-34	207	-53	15	-10	1382	295	309	34	4067	495
LONG BRANCH OAKHURS	271	-20			14	2			237	28		

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