

## **WINTER STORM SUMMARY FOR FEBRUARY 09, 2010 TO FEBRUARY 10, 2010 EVENT**

### **Synopsis**

A second powerful Nor'easter impacted the Mid Atlantic region in less than a week from Tuesday February 9th to Wednesday February 10th. Low pressure developed near the Texas Gulf Coast and tracked into the Ohio Valley during Tuesday. As this low tracked eastward, it gradually transferred its energy to another area of low pressure which organized along the Carolina coast late Tuesday evening. During Wednesday February 10th, this low intensified rapidly just east of the New Jersey coast. Heavy snow occurred in two bursts across the region. The first round of snow pushed through Tuesday evening and into the early morning hours of Wednesday. Some mixing with sleet and rain occurred with this initial burst of snow, especially from the Delmarva northward through central New Jersey and southeastern Pennsylvania. As an upper level disturbance and colder air moved across the area, a second round of heavy snow developed and brought significant accumulations. Snow lasted into Wednesday night and gradually ended from west to east as the low pressure system tracked northeast and away from the region.

### **Watches/Warnings/Advisories**

A Winter Storm Watch was issued at 345 am Monday February 8th for the following areas: New Castle, Kent, and Sussex in Delaware; Cecil, Kent, Queen Annes, Talbot, and Caroline in Maryland; Sussex, Warren, Morris, Hunterdon, Somerset, Middlesex, Monmouth, Mercer, Salem, Gloucester, Camden, Burlington, Ocean, Cumberland, Atlantic, and Cape May in New Jersey; Carbon, Monroe, Berks, Lehigh, Northampton, Chester, Montgomery, Bucks, Delaware, and Philadelphia in Pennsylvania. At 351 pm Monday February 8th, the Winter Storm Watch was upgraded to a Winter Storm Warning for the following areas: New Castle and Kent in Delaware; Cecil, Kent, Queen Annes, Talbot, and Caroline in Maryland; Sussex, Warren, Morris, Hunterdon, Somerset, Middlesex, Monmouth, Mercer, Salem, Gloucester, Camden, Burlington, Ocean, Cumberland, and Atlantic in New Jersey; Carbon, Monroe, Berks, Lehigh, Northampton, Chester, Montgomery, Bucks, Delaware, and Philadelphia in Pennsylvania. At 330 am Tuesday February 9th, the Winter Storm Watch was upgraded to a Winter Storm Warning for the following areas: Sussex in Delaware; Cape May and Coastal Atlantic in New Jersey. The Winter Storm Warning was upgraded to a Blizzard Warning at 433 am Wednesday February 10th for the following areas: New Castle, Kent, and Sussex in Delaware; Cecil, Kent, Queen Annes, Talbot, and Caroline in Maryland; Hunterdon, Somerset, Middlesex, Monmouth, Mercer, Salem, Gloucester, Camden, Burlington, Ocean, Cumberland, Atlantic, and Cape May in New Jersey; Chester, Montgomery, Bucks, Delaware, and Philadelphia in Pennsylvania.

### **Precipitation/Temperatures/Winds**

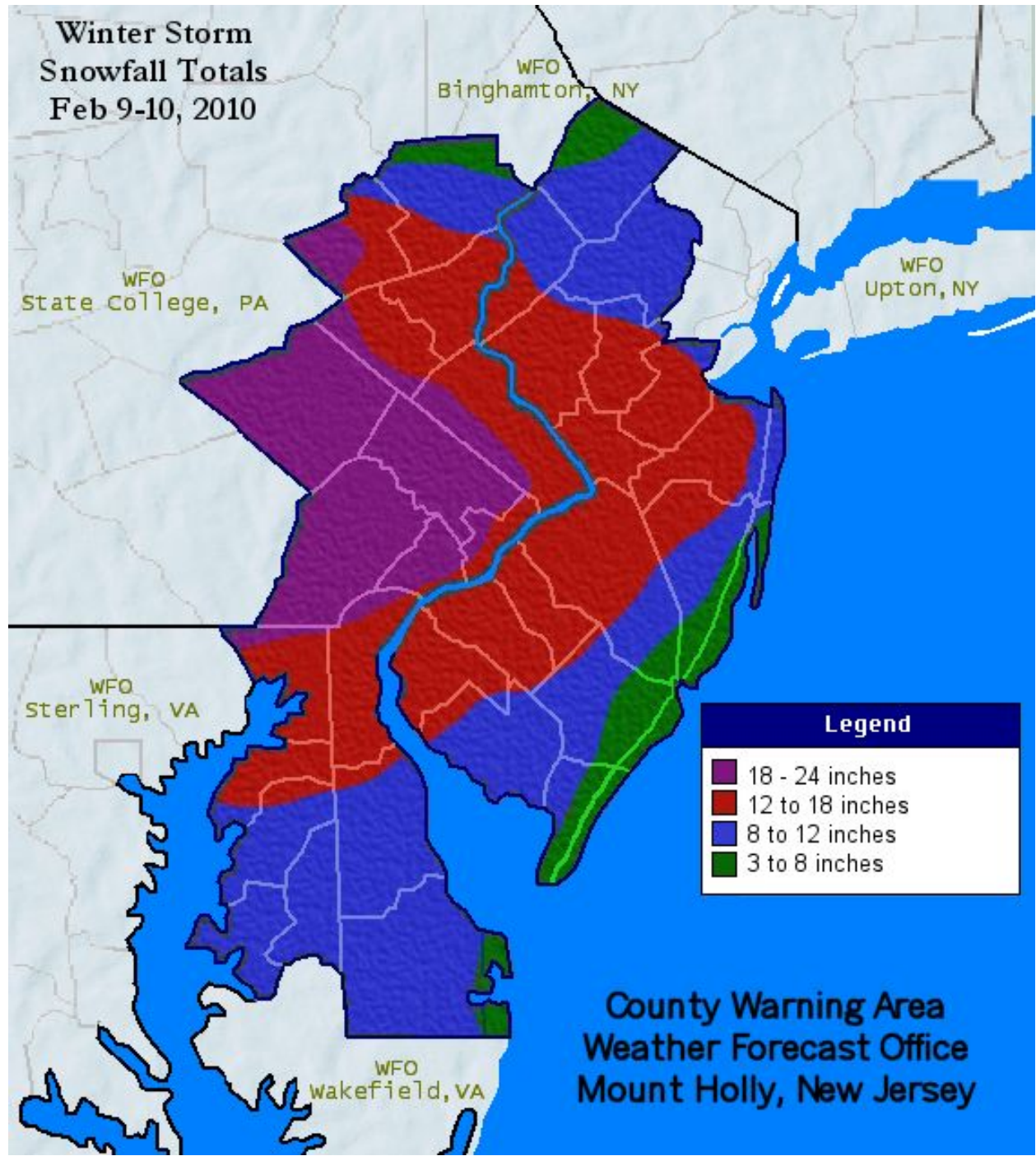
Significant snow accumulations were recorded across the region from this strong winter storm. In fact, this was the third major snowstorm of the 2009-2010 winter season, and seasonal snowfall records were broken at Philadelphia, Wilmington, and Atlantic City. Snowfall totals ranged from 18 to 24 inches across Chester, Montgomery, and Berks counties in Pennsylvania. An area of 12 to 18 inch accumulations were measured across much of western New Jersey and down into the northern Delmarva. Snowfall amounts of 8 to 12 inches were tallied from the southern Delmarva northward through eastern New Jersey. Coastal areas of New Jersey recorded 3 to 8 inches of snow. Total snow

accumulations were not as high for coastal New Jersey and the Delaware beaches due to sleet and rain mixing in for a longer period of time. Sleet and rain also mixed in during the first round of heavy snow from late Tuesday into early Wednesday across central to western New Jersey, southeastern Pennsylvania, and through the Delmarva. In many areas, temperatures rose into the lower and middle 30s, yielding a heavy, wet snow.

Gusty winds were also a factor with this coastal storm. Some of the highest wind gusts recorded include 68 mph measured at Cape May, NJ; 55 mph in Royal Oak, MD; and 51 mph in Lewes, DE. Wind gusts of 40 mph or greater were also measured at Dover, Wilmington, Atlantic City, Allentown, and Mount Pocono. Strong winds along with the falling snow created reduced visibilities and blizzard or near-blizzard conditions at times, especially through the Delmarva Peninsula.

### **Significant Impacts/Aspects**

During the two main snow bursts that developed across the region with this storm system, snowfall rates of 1 to 2 inches per hour occurred from portions of the Delmarva northward into western New Jersey and southeastern Pennsylvania. The heavy, wet snow quickly accumulated on trees and power lines resulting in power outages from southern New Jersey into the Delmarva. At the height of the storm, roads became impassable with numerous traffic accidents and stranded cars. Portions of I-80, I-78, I-295, and the PA/NJ turnpike were closed. In addition, the Philadelphia International Airport was closed as heavy snow and reduced visibilities continued for much of the day. Many schools across the region, including Philadelphia area schools, were closed on Wednesday February 10th and Thursday February 11th.



NOUS41 KPHI 110947

PNSPHI

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PUBLIC INFORMATION STATEMENT

SPOTTER REPORTS

NATIONAL WEATHER SERVICE MOUNT HOLLY NJ  
445 AM EST THU FEB 11 2010

THE FOLLOWING ARE UNOFFICIAL OBSERVATIONS TAKEN DURING THE PAST 9 HOURS FOR THE STORM THAT HAS BEEN AFFECTING OUR REGION. APPRECIATION IS EXTENDED TO COOPERATIVE OBSERVERS AND SKYWARN SPOTTERS FOR THESE REPORTS. THIS SUMMARY IS ALSO AVAILABLE ON OUR HOME PAGE AT WEATHER.GOV/PHI

\*\*\*\*\*STORM TOTAL SNOWFALL\*\*\*\*\*

LOCATION	STORM TOTAL	TIME/DATE	COMMENTS
	SNOWFALL	OF	
	(INCHES)	MEASUREMENT	
DELAWARE			
...KENT COUNTY...			
WOODSIDE	11.0	1010 PM 2/10	
DOVER	9.3	852 PM 2/10	
...NEW CASTLE COUNTY...			
BEAR	12.8	100 AM 2/11	
WILMINGTON	12.8	100 AM 2/11	COUNTY AIRPORT
...SUSSEX COUNTY...			
LEWES	9.2	934 PM 2/10	
MARYLAND			
...TALBOT COUNTY...			
ROYAL OAK	14.5	430 AM 2/11	
NEW JERSEY			
...ATLANTIC COUNTY...			
BUENA	12.3	800 PM 2/10	
ATLANTIC CITY	7.3	100 AM 2/11	INTL AIRPORT
PLEASANTVILLE	7.3	100 AM 2/11	
GALLOWAY	4.0	1000 PM 2/10	
ABSECON	2.5	1025 PM 2/10	
...BURLINGTON COUNTY...			
MOUNT HOLLY NWS	15.9	100 AM 2/11	
TABERNACLE	15.1	1000 PM 2/11	
MOORESTOWN	15.0	1205 AM 2/11	
MOUNT LAUREL	14.5	1140 PM 2/10	

CINNAMINSON	14.0	845 PM	2/10
CROSSWICKS	14.0	800 PM	2/10
WILLINGBORO	13.0	100 AM	2/11
CHESTERFIELD	10.5	1205 AM	2/11
PEMBERTON	10.5	800 PM	2/10
NEW GREटना	8.0	800 PM	2/10

...CAMDEN COUNTY...

BLACKWOOD	17.0	946 PM	2/10
CHERRY HILL	17.0	815 PM	2/10
STRATFORD	17.0	813 PM	2/10
SICKLERVILLE	16.0	1145 PM	2/10
SOMERDALE	12.8	935 PM	2/10
PENNSAUKEN	12.5	845 PM	2/10
WATERFORD WORKS	12.5	815 PM	2/10
SOMERDALE	12.0	815 PM	2/10

...CAPE MAY COUNTY...

CAPE MAY	7.1	1150 PM	2/10
SWAINTON	6.0	1205 AM	2/11
CAPE MAY COURT HOUSE	5.5	1040 PM	2/10
GREEN CREEK	5.5	1040 PM	2/10
NORTH CAPE MAY	3.8	1040 PM	2/10
BESSELYS POINT	3.0	1040 PM	2/10
OCEAN CITY	3.0	1040 PM	2/10

...CUMBERLAND COUNTY...

VINELAND	11.3	800 PM	2/10
UPPER DEERFIELD	10.3	800 PM	2/10
NEWPORT	10.0	300 AM	2/11

...GLOUCESTER COUNTY...

NATIONAL PARK	15.8	100 AM	2/11
SWEDESBORO	14.5	1205 AM	2/11
MALAGA	11.0	1051 PM	2/10
NEW BROOKLYN	8.8	800 PM	2/10

SKYWARN SPOTTER

...HUNTERDON COUNTY...

KINGWOOD	18.0	805 PM	2/10
CLINTON	15.5	945 PM	2/10
WHITEHOUSE STATION	15.5	900 PM	2/10

...MERCER COUNTY...

EWING	18.7	945 PM	2/10
WHITE HORSE	18.3	1000 PM	2/10
HOPEWELL	18.0	1016 PM	2/10
HAMILTON SQUARE	16.0	900 PM	2/10
PRINCETON	14.0	1053 PM	2/10

TRENTON	13.8	900 PM	2/10
HIGHTSTOWN	11.5	1205 AM	2/11

...MIDDLESEX COUNTY...

CHEESEQUAKE	17.0	1155 PM	2/10
NEW BRUNSWICK	16.0	115 AM	2/11
EAST BRUNSWICK	15.6	1051 PM	2/10
METUCHEN	14.4	1000 PM	2/10
EDISON	13.8	1115 PM	2/10
MILLTOWN	13.5	1205 AM	2/11
OLD BRIDGE	13.0	800 PM	2/10
SAYREVILLE	12.0	1205 AM	2/11
WOODBIDGE	11.5	1205 AM	2/11

...MONMOUTH COUNTY...

MORGANVILLE	17.4	1045 PM	2/10
COLTS NECK	16.0	1215 AM	2/11
NEPTUNE CITY	16.0	1135 PM	2/10
CREAM RIDGE	15.8	904 PM	2/10
ENGLISHTOWN	13.0	800 PM	2/10

...MORRIS COUNTY...

MILTON	13.0	1048 PM	2/10
BUTLER	12.0	854 PM	2/10
MORRIS PLAINS	10.5	1054 PM	2/10
ROCKAWAY	10.5	900 PM	2/10
PARSIPPANY	8.0	1205 AM	2/11

...OCEAN COUNTY...

BRICKTOWN	18.0	1045 PM	2/10
JACKSON#OCEAN	17.0	800 PM	2/10
BEACHWOOD	16.0	400 AM	2/11
MANCHESTER FISH AND	13.7	906 PM	2/10
WHITING	12.0	905 PM	2/10
POINT PLEASANT	9.0	905 PM	2/10
BAYVILLE	6.8	904 PM	2/10
HERBERTSVILLE	6.5	1205 AM	2/11
BARNEGAT	6.0	1205 AM	2/11

...SOMERSET COUNTY...

HILLSBOROUGH	17.6	115 AM	2/11
SOMERSET	17.5	200 AM	2/11
BELLE MEAD	16.6	1000 PM	2/10
BRANCHBURG#SOMERSET	14.0	800 PM	2/10
BRIDGEWATER	13.0	1100 PM	2/10
SOMERVILLE	12.6	910 PM	2/10

...SUSSEX COUNTY...

SPARTA	11.7	930 PM	2/10
SUSSEX	9.0	300 AM	2/11

...WARREN COUNTY...

STEWARTSVILLE	15.1	1100 PM	2/10
PHILLIPSBURG	13.0	915 PM	2/10
BLAIRSTOWN	12.0	935 PM	2/10
HACKETTSTOWN	11.5	1045 PM	2/10

PENNSYLVANIA

...BERKS COUNTY...

BOYERTOWN	23.3	900 PM	2/10
MERTZTOWN	19.1	907 PM	2/10

...BUCKS COUNTY...

PERKASIE	21.0	810 PM	2/10
SELLERSVILLE	21.0	1049 PM	2/10
PIPERSVILLE	19.5	1000 PM	2/10
FURLONG	19.3	1145 PM	2/10
BENSALEM	17.8	1205 AM	2/11
SPRINGTOWN	16.3	930 PM	2/10
MORRISVILLE	16.1	830 PM	2/10

...CARBON COUNTY...

JIM THORPE	20.0	915 PM	2/10
BOWMANSTOWN	18.0	809 PM	2/10
EAST WEISSPORT	18.0	808 PM	2/10
LEHIGHTON	18.0	809 PM	2/10
TRESCOW	18.0	810 PM	2/10
ALBRIGHTSVILLE	17.5	809 PM	2/10

...CHESTER COUNTY...

EAST NANTMEAL	26.8	1055 PM	2/10
SOUTH COVENTRY	26.1	910 PM	2/10
WILLISTOWN	24.0	1016 PM	2/10
EAST GOSHEN	20.0	800 PM	2/10
EASTTOWN	20.0	800 PM	2/10
WEST WHITELAND	19.0	1015 PM	2/10
CALN	18.0	1100 PM	2/10
WEST CHESTER	16.5	1055 PM	2/10
WESTTOWN	15.0	800 PM	2/10
EAST BRADFORD	14.5	800 PM	2/10

...DELAWARE COUNTY...

RIDLEY PARK	21.5	1000 PM	2/10
BOOTHWYN	20.0	1100 PM	2/10
CLIFTON HEIGHTS	19.1	315 AM	2/11

FOLCROFT	18.0	1000	PM	2/10
UPPER CHICHESTER	18.0	1000	PM	2/10
DREXEL HILL	17.0	955	PM	2/10
SECANE	17.0	800	PM	2/10
GLEN MILLS	15.5	800	PM	2/10
SWARTHMORE	10.8	800	PM	2/10

...LEHIGH COUNTY...

MACUNGIE	22.0	845	PM	2/10
ALLENTOWN	17.8	100	AM	2/11
ALBURTIS	17.5	830	PM	2/10
SCHNECKSVILLE	15.1	915	PM	2/10

INTL AIRPORT

...MONROE COUNTY...

DELAWARE WATER GAP	15.0	1054	PM	2/10
POCONO PINES	11.0	812	PM	2/10
STORMVILLE	10.5	810	PM	2/10
EAST STROUDSBURG	9.0	812	PM	2/10
TOBYHANNA	9.0	1053	PM	2/10
SCOTRUN	8.5	811	PM	2/10
BARTONSVILLE	8.3	811	PM	2/10

...MONTGOMERY COUNTY...

EAGLEVILLE	23.0	1000	PM	2/10
MONTGOMERYVILLE	22.4	210	AM	2/11
ABINGTON	22.3	1045	PM	2/11
TRAPPE	22.0	1205	AM	2/11
HORSHAM	18.5	1023	PM	2/10
GILBERTSVILLE	18.0	945	PM	2/10
WYNNEWOOD	18.0	1125	PM	2/11
KING OF PRUSSIA	17.7	1045	PM	2/10
AMBLER	12.0	800	PM	2/10

...NORTHAMPTON COUNTY...

BETHLEHEM	17.1	915	PM	2/10
EASTON	15.6	845	PM	2/10
MARTINS CREEK	14.4	830	PM	2/10
UPPER NAZARETH	14.0	815	PM	2/10

...PHILADELPHIA COUNTY...

SOMERTON	20.4	1000	PM	2/10
PHILADELPHIA	17.0	1052	PM	2/10
PHILADELPHIA	15.8	100	AM	2/11

PINE VALLEY

INTL AIRPORT

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