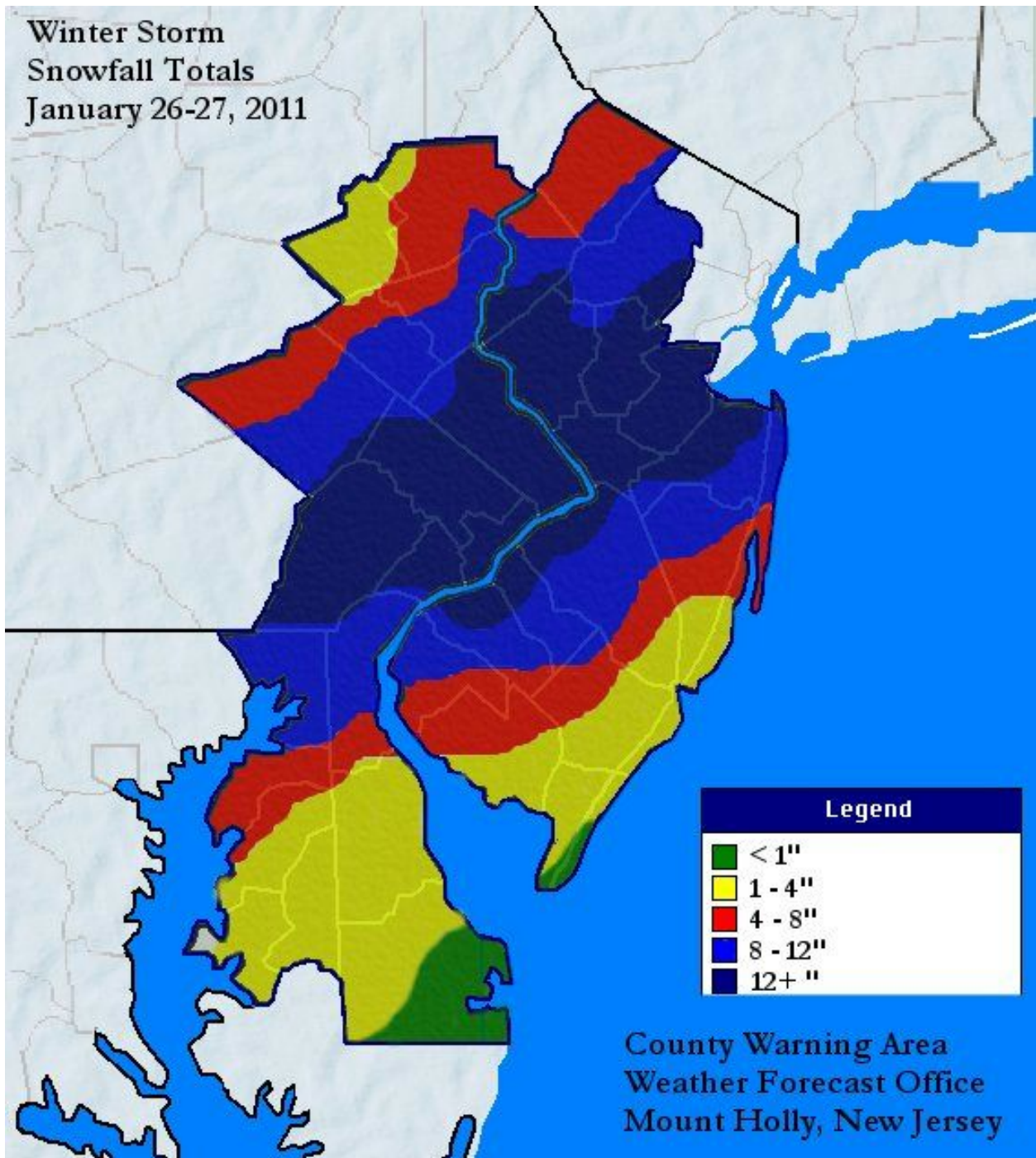


Winter Storm  
Snowfall Totals  
January 26-27, 2011



NOUS41 KPHI 272132

PNSPHI

DEZ001>004-MDZ008-012-015-019-020-NJZ001-007>010-012>027-PAZ054-055-  
060>062-067>071-280500-

PUBLIC INFORMATION STATEMENT

SPOTTER REPORTS  
 NATIONAL WEATHER SERVICE MOUNT HOLLY NJ  
 435 PM EST THU JAN 27 2011

THE FOLLOWING ARE UNOFFICIAL OBSERVATIONS TAKEN DURING THE PAST 24 HOURS  
 FOR THE STORM THAT HAS BEEN AFFECTING OUR REGION. APPRECIATION IS  
 EXTENDED  
 TO HIGHWAY DEPARTMENTS...COOPERATIVE OBSERVERS...SKYWARN SPOTTERS...  
 MEDIA AND DEOS FOR THESE REPORTS. THIS SUMMARY IS ALSO AVAILABLE ON OUR  
 HOME PAGE AT WEATHER.GOV/PHI

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

LOCATION	STORM TOTAL SNOWFALL /INCHES/	TIME/DATE OF MEASUREMENT	COMMENTS
DELAWARE			
...KENT COUNTY...			
SMYRNA	3.7	131 AM 1/27	
DOVER	3.4	211 AM 1/27	
HARRINGTON	2.5	213 AM 1/27	
DOVER SPEEDWAY	2.5	239 AM 1/27	
VIOLA	1.5	213 AM 1/27	
...NEW CASTLE COUNTY...			
HOCKESSIN	12.1	209 AM 1/27	
PRICES CORNER	11.6	209 AM 1/27	
NEWARK	11.5	841 AM 1/27	
GREENVILLE	11.4	206 AM 1/27	
TALLEY BROOK	10.9	207 AM 1/27	
2 NW NEWARK	10.8	207 AM 1/27	
WILMINGTON ASOS	10.4	110 AM 1/27	AIRPORT
BEAR	10.4	111 AM 1/27	
BLACKBIRD	8.9	210 AM 1/27	
GLASGOW	8.5	210 AM 1/27	
CLAYMONT	8.4	207 AM 1/27	
CHRISTIANA	4.7	431 AM 1/27	SINCE 6 PM
...SUSSEX COUNTY...			
ELLENDALE	3.7	214 AM 1/27	
LAUREL	2.8	215 AM 1/27	
BRIDGEVILLE	1.5	215 AM 1/27	
LEWES	0.7	305 AM 1/27	
STOCKLEY	0.4	214 AM 1/27	

MARYLAND

...CECIL COUNTY...				
CONOWINGO	10.0	1133 AM	1/27	
ELKTON	8.5	121 AM	1/27	
...KENT COUNTY...				
GALENA	8.0	449 AM	1/27	
MILLINGTON	5.6	545 AM	1/27	
...QUEEN ANNE`S COUNTY...				
STEVENSVILLE	5.3	1256 AM	1/27	
KENT ISLAND ESTATES	4.0	1147 PM	1/26	
...TALBOT COUNTY...				
SAINT MICHAELS	4.5	503 AM	1/27	
EASTON	3.8	1024 AM	1/27	
TRAPPE	1.5	502 AM	1/27	

NEW JERSEY

...ATLANTIC COUNTY...				
ESTELL MANOR	3.6	707 AM	1/27	
GALLOWAY TWP	3.5	700 AM	1/27	
ATLANTIC CITY ASOS	3.4	700 AM	1/27	
PLEASANTVILLE	2.9	111 AM	1/27	
ABSECON	2.0	700 AM	1/27	
...BURLINGTON COUNTY...				
MAPLE SHADE	14.0	637 AM	1/27	
FLORENCE	13.7	1019 AM	1/27	
MOUNT LAUREL	13.1	706 AM	1/27	
MOUNT HOLLY ASOS	12.6	700 AM	1/27	
MOUNT HOLLY	11.8	112 AM	1/27	NWS OFFICE
MOORESTOWN	11.5	618 AM	1/27	
TABERNACLE	9.9	830 AM	1/27	
1 ESE FRIENDSHIP	9.5	750 AM	1/27	
CHESTERFIELD	9.0	725 AM	1/27	
MEDFORD LAKES	8.0	1245 PM	1/27	
SOUTHAMPTON TWP	4.0	1040 PM	1/26	
...CAMDEN COUNTY...				
SOMERDALE	12.8	830 AM	1/27	
SICKLERVILLE	12.0	101 AM	1/27	
LINDENWOLD	11.0	616 AM	1/27	
RUNNEMEDE	10.5	1213 AM	1/27	

...CAPE MAY COUNTY...

BEESLEYS POINT	2.0	844 AM	1/27
WOODBINE	2.0	842 AM	1/27
ERMA	2.0	700 AM	1/27
RIO GRANDE	2.0	845 AM	1/27
SEAVILLE	1.8	700 AM	1/27
DENNISVILLE	1.8	223 PM	1/27
ELDORA	1.7	224 PM	1/27
GREEN CREEK	1.5	850 AM	1/27
NORTH CAPE MAY	1.0	800 AM	1/27
WEST CAPE MAY	1.0	842 AM	1/27
CAPE MAY	0.9	1112 PM	1/26
WILDWOOD CREST	0.8	846 AM	1/27
SCOTCH BONNET	0.8	841 AM	1/27
1 SW STONE HARBOR	0.8	700 AM	1/27
AVALON	0.3	954 AM	1/27

...CUMBERLAND COUNTY...

VINELAND	7.2	739 AM	1/27
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...GLOUCESTER COUNTY...

VERGA	19.0	926 AM	1/27
GIBBSTOWN	17.2	1234 AM	1/27
NATIONAL PARK	15.1	744 AM	1/27
SWEDESBORO	14.0	429 AM	1/27
SEWELL	13.1	122 PM	1/27
MALAGA	8.0	418 PM	1/27

...HUNTERDON COUNTY...

FRENCHTOWN	17.9	224 AM	1/27
CLINTON	16.2	919 AM	1/27
WHITEHOUSE	16.0	1039 AM	1/27
WHITE HOUSE STATION	15.7	735 AM	1/27
FLEMINGTON JUNCTION	15.0	700 AM	1/27
LAMBERTVILLE	15.0	1008 AM	1/27

...MERCER COUNTY...

HAMILTON TWP	18.0	921 AM	1/27
PRINCETON	17.1	724 AM	1/27
HOPEWELL	17.1	741 AM	1/27
EWING	15.2	434 AM	1/27
ROBBINSVILLE	13.4	736 AM	1/27
HIGHTSTOWN	12.5	431 AM	1/27
WASHINGTON CROSSING	11.5	819 AM	1/27

...MIDDLESEX COUNTY...

SOUTH BRUNSWICK	17.7	849 AM	1/27
EDISON	17.5	848 AM	1/27

NORTH BRUNSWICK TWP	17.3	849 AM	1/27
HOPELAWN	16.7	411 PM	1/27
CHEESEQUAKE	16.7	700 AM	1/27
JEFFERSON PARK	16.6	804 AM	1/27
METUCHEN	15.7	617 AM	1/27
SAYREVILLE	15.5	145 PM	1/27
OLD BRIDGE TWP	14.8	143 PM	1/27
DAYTON	14.5	1023 AM	1/27
MILLTOWN	14.0	432 AM	1/27
KENDALL PARK	12.5	145 PM	1/27
WOODBIDGE	12.0	428 AM	1/27
...MONMOUTH COUNTY...			
N HOLMDEL	17.5	415 PM	1/27
FREEHOLD	16.5	413 PM	1/27
RED BANK	16.2	418 PM	1/27
ENGLISHTOWN	13.0	143 PM	1/27
MORGANVILLE	13.0	800 AM	1/27
HAMILTON	13.0	430 AM	1/27
CREAM RIDGE	12.1	700 AM	1/27
AVON	9.5	750 AM	1/27
WEST LONG BRANCH	7.7	730 AM	1/27
NEPTUNE TWP	6.5	420 PM	1/27
...MORRIS COUNTY...			
HANOVER	14.1	1029 AM	1/27
MORRISTOWN	14.0	429 AM	1/27
BOONTON	10.0	953 AM	1/27
GREEN POND	10.0	1023 AM	1/27
BUTLER	9.0	134 AM	1/27
MARCELLA	9.0	755 AM	1/27
ROCKAWAY	9.0	830 AM	1/27
1 NNE PETERSBURG	8.5	813 AM	1/27
...OCEAN COUNTY...			
BRICK TWP	10.6	345 AM	1/27
WHITING	9.0	942 AM	1/27
BEACHWOOD	8.0	900 AM	1/27
BAYVILLE	7.5	640 AM	1/27
POINT PLEASANT	7.2	700 AM	1/27
HERBERTSVILLE	6.5	427 AM	1/27
LAKWOOD	4.5	1030 AM	1/27
BARNEGAT	4.0	427 AM	1/27
SHIP BOTTOM	3.0	1030 AM	1/27
...SALEM COUNTY...			
CARNEYS POINT	6.5	1044 PM	1/26
QUINTON	4.0	1012 PM	1/26

...SOMERSET COUNTY...

BRANCBURG PARK	18.3	800 AM	1/27
HILLSBOROUGH	17.7	700 AM	1/27
ROCKY HILL	16.0	816 AM	1/27
SOMERSET	15.6	800 AM	1/27
1 NW SOMERSET	15.0	438 AM	1/27
BRIDGEWATER TWP	13.2	308 AM	1/27
SOMERVILLE	13.0	700 AM	1/27
RARITAN	12.6	830 AM	1/27
BEDMINSTER	11.5	830 AM	1/27
FRANKLIN TWP	11.0	1016 PM	1/26
N SOMERSET	5.4	309 AM	1/27

...SUSSEX COUNTY...

SPARTA	8.9	700 AM	1/27
NEWTON	6.9	650 AM	1/27
WANTAGE	4.0	437 AM	1/27

...WARREN COUNTY...

HACKETTSTOWN	18.0	830 AM	1/27
STEWARTSVILLE	15.5	1219 AM	1/27
PHILLIPSBURG	14.0	830 AM	1/27
BLAIRSTOWN	7.5	304 AM	1/27

PENNSYLVANIA

...BERKS COUNTY...

HUFFS CHURCH	11.1	1220 AM	1/27
MERTZTOWN	10.8	124 PM	1/27
SHILLINGTON	10.8	800 AM	1/27

...BUCKS COUNTY...

BENSALEM	16.9	119 AM	1/27
LOWER MAKEFIELD TWP	16.0	827 AM	1/27
FURLONG	15.7	936 AM	1/27
MORRISVILLE	15.1	636 AM	1/27
FERNDALE	15.0	130 AM	1/27
PERKASIE	14.8	157 AM	1/27
SOUTHAMPTON	12.5	307 AM	1/27
PIPERSVILLE	12.5	156 AM	1/27
RIEGELSVILLE	10.5	802 AM	1/27

SECOND BATCH ONLY.

...CHESTER COUNTY...

DOWNINGTOWN	16.1	211 AM	1/27
SPRING CITY	16.0	811 AM	1/27
LADENBERG	15.8	1239 PM	1/27
KENNETT SQUARE	15.3	1238 PM	1/27

COATESVILLE	15.0	536 AM	1/27	
WESTTOWN	15.0	1233 PM	1/27	
WEST CALN TWP	14.8	1221 AM	1/27	
EXTON	14.0	915 AM	1/27	
HONEY BROOK	13.0	812 AM	1/27	
DEVON-BERWYN	12.8	1242 PM	1/27	
...DELAWARE COUNTY...				
DREXEL HILL	15.3	242 AM	1/27	
UPPER PROVIDENCE	15.0	1243 PM	1/27	
MEDIA	14.0	1152 PM	1/26	
CHESTER	13.7	340 AM	1/27	
SHARON HILL	13.0	905 AM	1/27	
GARNET VALLEY	13.0	900 AM	1/27	
CLIFTON HEIGHTS	12.9	808 AM	1/27	
FOLCROFT	12.5	900 AM	1/27	
...LEHIGH COUNTY...				
ALLENTOWN	11.6	700 AM	1/27	
ALLENTOWN ASOS	11.6	109 AM	1/27	AIRPORT
CATASAUQUA	10.0	1000 AM	1/27	
SCHNECKSVILLE	9.2	616 AM	1/27	
EAST TEXAS	8.8	1040 PM	1/26	
SLATINGTON	6.0	830 AM	1/27	
NEW TRIPOLI	5.8	800 AM	1/27	
...MONROE COUNTY...				
DELAWARE WATER GAP	8.5	420 PM	1/27	
EAST STROUDSBURG	8.2	840 AM	1/27	
TOBYHANNA	4.4	120 AM	1/27	
...MONTGOMERY COUNTY...				
COLLEGEVILLE	16.5	1020 AM	1/27	
ROYERSFORD	16.4	800 AM	1/27	
WYNNEWOOD	16.3	117 AM	1/27	
WILLOW GROVE ASOS	16.2	119 AM	1/27	
TRAPPE	16.2	316 AM	1/27	
HORSHAM	16.0	448 AM	1/27	
POTTSTOWN	15.0	1025 AM	1/27	
ABINGTON	14.8	1110 PM	1/26	
MONTGOMERYVILLE	14.2	337 AM	1/27	
EAGLEVILLE	13.9	700 AM	1/27	
KING OF PRUSSIA	13.6	1223 AM	1/27	
AMBLER	12.3	1210 AM	1/27	
AMBLER HOUSE	11.3	1112 PM	1/26	
NORRISTOWN	11.0	930 AM	1/27	
BRYN MAWR	8.8	700 AM	1/27	
1 NW COLLEGEVILLE	8.5	836 PM	1/26	

...NORTHAMPTON COUNTY...

WILLIAMS TWP	13.0	135 PM	1/27
BETHLEHEM	11.0	613 AM	1/27
EASTON	9.0	412 PM	1/27
MARTINS CREEK	8.5	1013 AM	1/27
NAZARETH	7.0	1018 AM	1/27

...PHILADELPHIA COUNTY...

SOMERTON	17.3	225 AM	1/27
NORTHEAST PHILADELPHIA	16.5	200 AM	1/27
PHILADELPHIA INTL AI	15.1	700 AM	1/27

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## WINTER STORM SUMMARY FOR

### JANUARY 26, 2011 TO JANUARY 27, 2011 EVENT

#### Synopsis

An area of low pressure started to take shape off the Texas coast in the Gulf of Mexico on Monday January 24th. This area of low pressure slowly began to strengthen and eventually moved inland as it trekked up through the Southeastern United States on Tuesday January 25th. As the low deepened, energy was being transferred to a weak surface wave off the coast of North Carolina early Wednesday January 26th. This coastal wave started to produce precipitation over the Southern Delmarva shortly after 2AM on Wednesday the 26th and quickly spread to the north during the early morning hours. By noon, areas south of Philadelphia were experiencing a brief respite in the precipitation action, but another dose of winter weather was quickly approaching from the southwest.

The second wave of action came in fast and heavy starting around 4pm across the Delmarva, brought on by the parent low pressure system sitting over Southern Virginia. As the low moved towards the coast more energy was transferred to the slow moving coastal low and heavier precipitation started to spread further north and east. The coastal low finally started to wind down early on Thursday January 27th from west to east, eventually pulling far enough to the northeast to no longer have an affect on the region by mid-morning.

#### Watches/Warnings/Advisories

At 406AM on Tuesday January 25th, the first Winter Storm Watch was issued for the following areas: Sussex, Warren, Morris, Hunterdon, and Somerset in New Jersey; Carbon, Monroe, Berks, Lehigh, Northampton, Bucks, and Montgomery county in Pennsylvania. At 1120AM on the 25th, the Winter Storm Watch was expanded to include the following areas: New Castle and Kent in Delaware; Cecil, Kent, Queen Annes, Talbot, and Caroline in Maryland; Middlesex, Monmouth, Mercer, Salem, Gloucester, Camden, Burlington, Ocean, Cumberland, and Atlantic in New Jersey; Chester, Delaware, and Philadelphia in Pennsylvania. At 407AM on the 26th the Winter Storm Watch was upgraded to a Winter Storm Warning for the following areas: New Castle, and Kent in Delaware; Cecil, Kent, and Queen Annes in Maryland; Berks, Bucks, Montgomery, Chester, Delaware, and Philadelphia in Pennsylvania; Morris, Somerset, Hunterdon,



Middlesex, Mercer, Monmouth, Burlington, Ocean, Atlantic, Camden, Salem, Gloucester, and Cumberland in New Jersey. Also at 407AM on the 26th the Winter Storm Watch was replaced with a Winter Weather Advisory for the following areas: Carbon, Monroe, Lehigh, and Northampton in Pennsylvania; Sussex and Warren in New Jersey. A brand new Winter Weather Advisory was issued at 407AM for the following areas: Sussex in Delaware; Cape May, and Coastal Atlantic(including Atlantic City) in New Jersey. At 1021AM the Winter Weather Advisory was upgraded to a Winter Storm Warning for the following areas: Cape May, and Coastal Atlantic in New Jersey; Talbot and Caroline in Maryland; Warren in New Jersey; Lehigh and Northampton in Pennsylvania. At 240AM on January 27th the Winter Storm Warning was canceled for the following areas: New Castle and Kent in Delaware; Cecil, Kent, Queen Annes, Talbot, and Caroline in Maryland; Warren, Salem, Gloucester, Camden, Cumberland, Atlantic, and Cape May in New Jersey; Berks, Lehigh, Northampton, Chester, Montgomery, Bucks, Delaware, and Philadelphia in Pennsylvania. The Winter Weather Advisory was canceled for the following areas at 240AM on the 27th: Sussex in New Jersey; Carbon and Monroe in Pennsylvania; Sussex in Delaware. At the conclusion of the event the Winter Storm Warning was canceled for the following areas at 340AM on the 27th: Morris, Hunterdon, Somerset, Middlesex, Monmouth, Mercer, Burlington, and Ocean in New Jersey.

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

As was stated above in the synopsis, light precipitation entered our region from the south shortly after 2AM on Wednesday January 26th and quickly spread towards the north. Heavier bands of rain were experienced across the southern Delmarva while further north and west a light snow began to fall. By 5AM, with the coastal low just offshore of the the outer banks of North Carolina, the heaviest precipitation, due to warm-air advection, was falling over central Delaware and southeastern New Jersey. At this time a moderate intensity rain was falling over central and southern Delaware with all other areas north and west seeing a light snowfall. With a stronger northeast wind blowing in off the Atlantic Ocean coastal areas in southeastern New Jersey along with most of the Delmarva had a change over from snow to moderate to light rain for a few hours during the late morning and early afternoon hours. This helped to keep the snowfall accumulation suppressed in these areas. All in all the first batch of moisture to be rung out over the region produced up to 6 inches across locales in southeastern Pennsylvania, with the highest amounts in Chester and Montgomery counties. Areas north of Philadelphia in New Jersey received an average of 2 to 4 inches with the highest amounts in Mercer, Hunterdon, and Somerset counties. This was just a taste of what was to come in the evening and overnight hours.

By 4PM on the 26th heavy precipitation was just to the west of the region. Frequent lightning was noted in southern Maryland and northern Virginia, due to atmospheric instability aloft. These strong areas of convection continued to move towards our region and by 5PM heavy rain and thunderstorms were seen over central Delaware. An inundation of sleet started to fall across southeastern New Jersey by 6PM and most areas recorded nearly an inch of sleet before changing over to snow. Numerous locations recorded thunder-sleet between 5PM and 7PM across central New Jersey, and even pea size hail was reported along coastal sections of Ocean and Monmouth counties! Meanwhile over in Pennsylvania the heavy sleet turned to all snow by 7PM in areas west of Philadelphia, while a mixing of snow and sleet still fell in the metro area. The entire region turned over to all snow by 9PM on the 26th. Thunder-snow was reported in Chester, Montgomery, and Bucks counties during the height of the storm. Snow-fall rates exceeded 4 inches an hour in some spots where very narrow mesoscale bands had set up and become nearly stationary for a couple of hours. These narrow bands produced copious amounts of snow that fell very fast and very hard across portions of the Philadelphia metro area and northern New Jersey.

Over a foot of snow fell across portions of the region with the second batch of snow alone...quite a feat in only 9 hour time period. Occasional wind gusts of 25 mph were experienced across the region which, coupled with heavy snowfall, caused near whiteout conditions in some areas. The hardest hit areas of 16 inches or more were strewn across the region from Chester county in Pennsylvania northeast through Delaware, Philadelphia, Bucks, and Montgomery counties and then extended into Mercer, Hunterdon, Warren, Somerset, Middlesex, and Monmouth counties in New Jersey. There was one location in Gloucester county that reported over a foot and half, 19 inches, after the storm pulled out. Due to the mesoscale banding and mixed precipitation occurring over southeastern New Jersey and the Delmarva, snowfall accumulations in those areas were much less.

### **Significant Impacts/Aspects**

This double whammy storm system caused numerous traffic delays during the morning work commutes on January 26th and 27th. Most schools across the region had an abbreviated school schedule on the 26th and were either closed or opened late on the 27th. Due to the ferocity of the snowfall generating near whiteout conditions, multiple interstates across the region had restricted speed limits and snow removal crews had a very tough time keeping the roads clear enough to safely pass. To make matters worse, the underlying layer of snow from the first batch of precipitation, combined with sleet at the start of the second batch, compacted into a layer of ice that was very difficult to remove from sidewalks and roadways after the storm was over. Public transit entities were still running on delayed schedules a full 24 hours after the event had concluded.

### **Notes**

Information contained in this summary is preliminary. More complete and/or detailed information may be contained in subsequent monthly NOAA storm data publications.