

WINTER STORM SUMMARY FOR

DECEMBER 19, 2009 TO DECEMBER 20, 2009 EVENT

Synopsis

A significant Nor'easter impacted the Mid Atlantic region from Saturday December 19th through the morning of Sunday December 20th. An area of low pressure developed in the Gulf of Mexico on Friday December 18th, and this low then tracked to just east of the Carolina coast by Saturday morning December 19th. This low pressure system intensified Saturday as it continued to track northeastward along the East Coast. With ample cold air in place, snow began falling across much of the area during the pre-dawn hours of Saturday. As the low strengthened, heavier bands of snow developed and tracked through the Delmarva Peninsula and southern New Jersey. By late afternoon and evening, significant snow accumulations were occurring in these areas. Some mixing with rain occurred along the southern New Jersey coast during the afternoon, and sleet was also reported during the afternoon along the eastern shore of Maryland. Farther north, snow began during the late afternoon and persisted into the night across northern New Jersey and the Lehigh Valley in northeast Pennsylvania. Accumulating snow continued across much of the Mid Atlantic region through midnight, and light snow showers lasted across portions of central to northern New Jersey through mid-morning on Sunday December 20th. The low pressure system tracked northeast and away from the region through the remainder of Sunday.

Watches/Warnings/Advisories

A Winter Storm Watch was issued at 330 pm on Thursday December 17th for the following areas: New Castle, Kent, and Sussex in Delaware; Cecil, Kent, Queen Annes, Talbot, and Caroline in Maryland; Salem, Gloucester, Camden, Northwestern Burlington, Ocean, Cumberland, Atlantic, Cape May, and Southeastern Burlington in New Jersey; Delaware and Philadelphia in Pennsylvania. At 1012 pm on Thursday December 17th, a Winter Storm Watch was issued for the following areas: Hunterdon, Somerset, Middlesex, Western Monmouth, Eastern Monmouth, and Mercer in New Jersey; Berks, Chester, Montgomery, and Bucks in Pennsylvania. A Winter Storm Warning was issued at 440 am on Friday December 18th for the following areas: New Castle, Kent, and Sussex in Delaware; Cecil, Kent, Queen Annes, Talbot, and Caroline in Maryland; Salem, Gloucester, Camden, Northwestern Burlington, Ocean, Cumberland, Atlantic, Cape May, and Southeastern Burlington in New Jersey; Delaware and Philadelphia in Pennsylvania. Also on Friday December 18th at 440 am, a Winter Storm Watch was issued for the following areas: Sussex, Warren, and Morris in New Jersey; Carbon, Monroe, Lehigh, and Northampton in Pennsylvania. At 114 pm on Friday December 18th, a Winter Storm Warning was issued for the following areas: Hunterdon, Somerset, Middlesex, Western Monmouth, Eastern Monmouth, Mercer, Sussex, Warren, and Morris in New Jersey; Carbon, Monroe, Lehigh, Northampton, Berks, Chester, Montgomery, and Bucks in Pennsylvania.

Precipitation/Temperatures/Winds

Significant snow accumulations were recorded from this event. In fact, Philadelphia recorded its third highest snowfall ever for any single event, with 23.2 inches at the Philadelphia International Airport. Snowfall totals ranging from 20 to 25 inches extended from central Ocean and Burlington counties in New Jersey southwestward to Kent county in Maryland. Farther south, snowfall amounts of 10 to 20 inches occurred from Atlantic county New Jersey southwestward to Caroline and Talbot counties in Maryland. A band of 5 to 10 inch snowfall accumulations occurred from central Cape May county in New Jersey southward into Sussex county Delaware. North of the Philadelphia area, 10 to 15 inch accumulations were tallied from Monmouth county in New Jersey westward into northern Chester county in Pennsylvania. Meanwhile, 5 to 10 inch accumulations occurred across much of northern New Jersey and westward into Berks and Lehigh

counties in Pennsylvania. Temperatures remained in the 20s for most areas throughout the event, yielding a light, fluffy snow. Winds averaging 15 to 25 mph for most areas resulted in blowing and drifting snow with reduced visibilities.

Significant Impacts/Aspects

This was the first heavy snowfall of the winter season, and as the fluffy snow fell, it quickly accumulated on roadways. Blowing and drifting snow also proved to be a challenge as road crews across the region tried to keep up with the accumulating snow. Snowfall rates of 1 to 2 inches per hour along with thunder and a few lightning strikes were reported across portions of Gloucester and western Atlantic counties. Even though the storm exited the region by Sunday morning, schools across central to southern New Jersey, as well as schools in Philadelphia, were closed on Monday because additional time was needed to clear roads and sidewalks across the area.

Notes

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

ZCZC PHLWRKJJM ALL
TTAA00 KPHL 071538
DEZ001>004-MDZ008-012-015-019-020-NJZ001-007>010-012>027-PAZ054-055-
060>062-067>071-210533-

PUBLIC INFORMATION STATEMENT
SPOTTER REPORTS
NATIONAL WEATHER SERVICE MOUNT HOLLY NJ
1045 AM EST THU JAN 07 2010

THE FOLLOWING ARE UNOFFICIAL OBSERVATIONS TAKEN DURING THE PAST 16 HOURS FOR THE STORM THAT HAS BEEN AFFECTING OUR REGION. APPRECIATION IS EXTENDED TO HIGHWAY DEPARTMENTS...COOPERATIVE OBSERVERS...SKYWARN SPOTTERS AND MEDIA 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...

DOVER	18.0	925 AM	12/20
FELTON	13.0	945 AM	12/20

...NEW CASTLE COUNTY...

BEAR	17.0	715 AM	12/20	
WILMINGTON	17.0	100 AM	12/20	NEW CASTLE COUNTY APT
CLAYMONT	16.3	1213 PM	12/20	
NEWARK	16.1	1001 AM	12/20	
WILMINGTON	15.0	944 AM	12/20	CITY
NEWPORT	13.0	945 AM	12/20	

...SUSSEX COUNTY...

SEAFORD	7.0	946 AM	12/20
FRANKFORD	4.1	1205 AM	12/20

MARYLAND

...CAROLINE COUNTY...

GREENSBORO	17.5	1002 AM	12/20
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...CECIL COUNTY...

COLORA	17.5	1141 AM	12/20
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...KENT COUNTY...

MILLINGTON	22.0	1150 AM	12/20
FAIRLEE	21.5	1150 AM	12/20

...QUEEN ANNE'S COUNTY...

CENTREVILLE	13.0	1155 AM	12/20
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...TALBOT COUNTY...

QUEEN ANN	18.0	800 AM	12/20
CORDOVA	16.0	800 AM	12/20
BOZMAN	15.0	800 AM	12/20
EASTON	15.0	800 AM	12/20
OXFORD	15.0	800 AM	12/20
TRAPPE	14.0	800 AM	12/20
NEWCOMB	13.0	800 AM	12/20
SAINT MICHAELS	10.5	948 AM	12/20

NEW JERSEY

...ATLANTIC COUNTY...

FOLSOM	25.7	800 AM	12/20	
HAMMONTON	22.0	730 AM	12/20	
GALLOWAY	18.0	1045 PM	12/19	
ATLANTIC CITY	12.1	717 AM	12/20	INTERNATIONAL AIRPORT

PLEASANTVILLE	12.1	717 AM	12/20
ESTELL MANOR	12.0	1008 AM	12/20

...BURLINGTON COUNTY...

TABERNACLE	24.8	728 AM	12/20
MEDFORD	24.0	1050 PM	12/19
SOUTHAMPTON	21.4	130 AM	12/20
MEDFORD LAKES	21.0	1031 AM	12/20
WILLINGBORO	19.6	1100 PM	12/19
CINNAMINSON	19.2	807 AM	12/20
MOORESTOWN	19.0	1130 AM	12/20
WESTAMPTON	17.7	814 AM	12/20
BURLINGTON	17.5	1211 PM	12/20
BORDENTOWN	17.0	1132 AM	12/20
PEMBERTON	17.0	912 AM	12/20
MOUNT HOLLY NWS	16.6	720 AM	12/20
WRIGHTSTOWN	16.0	719 AM	12/20
DELTRAN	15.0	1205 AM	12/20

...CAMDEN COUNTY...

ATCO	24.0	1100 PM	12/19
BERLIN PARK	22.5	1010 AM	12/20
ATCO	22.0	1002 AM	12/20
BLACKWOOD	22.0	1210 AM	12/20
MERCHANTVILLE	22.0	1000 AM	12/20
SICKLERVILLE	22.0	1205 AM	12/20
LINDENWOLD	21.5	1027 AM	12/20
MERCHANTVILLE	20.0	1050 PM	12/19
STRATFORD	20.0	1158 AM	12/20
CHERRY HILL	19.5	1158 PM	12/19
SOMERDALE	18.5	1153 AM	12/20
PENNSAUKEN	18.1	807 AM	12/20
ERIAL	17.5	930 PM	12/19
WINSLOW	14.0	1008 AM	12/20

...CAPE MAY COUNTY...

ELDORA	18.3	1202 PM	12/20
SEAVILLE	11.5	919 AM	12/20
DENNISVILLE	10.0	1207 PM	12/20
SOUTH DENNIS	9.5	1206 PM	12/20
GREEN CREEK	9.3	857 AM	12/20
SWAINTON	9.0	1126 AM	12/20
NORTH CAPE MAY	8.3	918 AM	12/20
DIAS CREEK	8.0	1204 PM	12/20
VILLAS	7.8	919 AM	12/20
GOSHEN	7.5	1203 PM	12/20
CLERMONT	7.0	1030 PM	12/19
ERMA	6.0	927 AM	12/20

WEST CAPE MAY	5.0	918 AM	12/20
WHITESBORO	5.0	1204 PM	12/20
CAPE MAY	3.0	920 AM	12/20
SCOTCH BONNET	1.5	918 AM	12/20

...CUMBERLAND COUNTY...

NEWPORT	24.0	200 AM	12/20
VINELAND	23.6	925 AM	12/20
SHILOH	20.0	958 AM	12/20
CEDARVILLE	19.0	1030 PM	12/19
BRIDGETON	16.0	1016 AM	12/20

...GLOUCESTER COUNTY...

SWEDESBORO	25.0	1130 AM	12/20
NATIONAL PARK	23.2	717 AM	12/20
SEWELL	22.5	1014 AM	12/20
FRANKLINVILLE	22.0	1017 AM	12/20
MALAGA	22.0	908 AM	12/20
MONROEVILLE	22.0	809 AM	12/20
TURNERSVILLE	20.5	1045 PM	12/19
CROSS KEYS	19.0	940 PM	12/19
TURNERSVILLE	19.0	940 PM	12/19
FRANKLINVILLE	17.0	930 PM	12/19
GIBBSTOWN	17.0	930 PM	12/19

...HUNTERDON COUNTY...

FLEMINGTON	10.3	1020 AM	12/20
LEBANON	7.5	1021 AM	12/20
HIGH BRIDGE	7.0	1019 AM	12/20

...MERCER COUNTY...

HAMILTON PARK	15.7	1148 AM	12/20
HAMILTON SQUARE	14.0	1045 PM	12/19
HIGHTSTOWN	12.0	1134 AM	12/20
LAWRENCEVILLE	12.0	909 AM	12/20
PRINCETON	12.0	1149 AM	12/20
HOPEWELL	12.0	1124 AM	12/20
ROBBINSVILLE	10.5	852 AM	12/20
EWING	10.0	730 AM	12/20
PENNINGTON	8.5	1022 AM	12/20

...MIDDLESEX COUNTY...

EAST BRUNSWICK	12.5	1157 AM	12/20
CRANBURY	12.0	1032 AM	12/20
METUCHEN	10.0	1001 AM	12/20
NORTH BRUNSWICK	10.0	1024 AM	12/20
METUCHEN	9.3	1140 AM	12/20
MILLTOWN	9.0	1136 AM	12/20

WOODBIDGE	9.0	1137	AM	12/20
SOUTH PLAINFIELD	8.0	1045	AM	12/20
NEWTOWN	8.0	852	PM	12/19
SAYREVILLE	8.0	1137	AM	12/20
EDISON	6.0	1110	PM	12/19

...MONMOUTH COUNTY...

COLTS NECK	22.5	1147	AM	12/20
WAYSIDE	19.0	904	AM	12/20
RED BANK	17.5	1034	AM	12/20
MORGANVILLE	17.0	948	AM	12/20
NEPTUNE CITY	17.0	1201	PM	12/20
CREAM RIDGE	15.8	1153	AM	12/20
FAIR HAVEN	14.0	1035	AM	12/20
HOLMDEL	14.0	1136	AM	12/20
MANALAPAN	14.0	1205	AM	12/20
LONG BRANCH	11.0	729	AM	12/20
WEST LONG BRANCH	8.5	900	PM	12/19
MARLBORO	6.5	1045	PM	12/19

...MORRIS COUNTY...

WHIPPANY	10.0	1138	AM	12/20
MORRIS PLAINS	9.5	1141	AM	12/20
LINCOLN PARK	9.0	1045	PM	12/19
RANDOLPH#MORRIS	7.0	1040	AM	12/20
BUTLER	6.5	1205	AM	12/20
MILTON	6.5	810	AM	12/20
PARSIPPANY	6.5	1040	AM	12/20
BOONTON	6.0	1036	AM	12/20
ROCKAWAY	6.0	1036	AM	12/20
MARCELLA	5.5	920	AM	12/20
FLANDERS	4.0	1045	PM	12/19

...OCEAN COUNTY...

JACKSON#OCEAN	23.5	1045	PM	12/19	
BRICKTOWN	22.0	723	AM	12/20	
SHIP BOTTOM	21.0	1205	PM	12/20	
TOMS RIVER	21.0	1045	PM	12/19	
POINT PLEASANT BEACH	20.5	1042	AM	12/20	
HOLIDAY CITY	20.0	1046	AM	12/20	BERKELEY TWP
SURF CITY	20.0	1205	PM	12/20	
BEACHWOOD	18.5	1205	AM	12/20	
BAYVILLE	17.5	900	PM	12/19	
BROOKVILLE	16.0	1030	PM	12/19	OCEAN TWP
WHITING	16.0	900	PM	12/19	
MANAHAWKIN	14.5	900	PM	12/19	
FORKED RIVER	14.0	900	PM	12/19	
POINT PLEASANT	14.0	900	PM	12/19	

LANOKA HARBOR	13.0	1045	PM	12/19
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...SALEM COUNTY...

PITTSBORO	23.5	959	AM	12/20
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...SOMERSET COUNTY...

BRANCHBURG	12.0	1154	AM	12/20
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BRIDGEWATER	10.0	1155	AM	12/20
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HILLSBOROUGH	9.5	1202	PM	12/20
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SOMERVILLE	8.5	1026	AM	12/20
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ROCKY HILL	8.0	1100	PM	12/19
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...SUSSEX COUNTY...

HARDYSTON	4.5	1049	AM	12/20
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NEWTON	4.0	1132	PM	12/19
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SPARTA	3.9	1145	PM	12/19
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HOPATCONG	3.0	938	PM	12/19
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WANTAGE	3.0	728	AM	12/20
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LAFAYETTE	2.5	734	AM	12/20
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...WARREN COUNTY...

STEWARTSVILLE	7.6	813	AM	12/20
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HACKETTSTOWN	6.5	809	AM	12/20
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BROADWAY	5.0	1210	PM	12/20
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HOPE	4.5	1248	AM	12/20
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WASHINGTON	4.0	1025	PM	12/19
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BLAIRSTOWN	3.5	1155	PM	12/19
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PENNSYLVANIA

...BERKS COUNTY...

MAPLE GROVE	10.0	1140	PM	12/19
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MOHNTON	8.5	1058	AM	12/20
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BOYERTOWN	7.0	920	AM	12/20
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DOUGLASSVILLE	7.0	1200	PM	12/20
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WEST LAWN	6.5	1052	AM	12/20
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...BUCKS COUNTY...

FEASTERVILLE	13.8	954	AM	12/20
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BENSALEM	12.5	1100	PM	12/19
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RICHBORO	11.5	1115	AM	12/20
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NEWTOWN	11.4	101	AM	12/20
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FURLONG	11.2	1015	AM	12/20
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BENSALEM	11.0	900	PM	12/19
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WARRINGTON	11.0	957	AM	12/20
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MORRISVILLE	10.2	856	AM	12/20
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PERKASIE	9.6	205	AM	12/20
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...CHESTER COUNTY...

WEST CALN	19.3	1220	AM	12/20
EXTON	16.3	910	AM	12/20
WEST CHESTER	15.4	100	AM	12/20
EAST NANTMEAL	15.0	737	AM	12/20
DOWNINGTOWN	14.0	1216	PM	12/20
EXTON	11.0	1227	PM	12/20
HONEY BROOK	10.0	732	AM	12/20
FRICKS LOCK	8.5	1149	AM	12/20

...DELAWARE COUNTY...

SHARON HILL	23.0	1003	AM	12/20
FOLCROFT	19.0	1000	PM	12/19
UPPER CHICHESTER	18.0	1000	PM	12/19
CLIFTON HEIGHTS	16.7	230	AM	12/20
DREXEL HILL	16.0	729	AM	12/20
SWARTHMORE	14.8	1144	AM	12/20

...LEHIGH COUNTY...

ALLENTOWN	5.6	100	AM	12/20	LEHIGH VLY INTL AIRPORT
EMMAUS	5.2	115	AM	12/20	
ALLENTOWN	5.1	1105	PM	12/19	
SCHNECKSVILLE	5.0	1045	PM	12/19	

...MONROE COUNTY...

EAST STROUDSBURG	5.1	130	AM	12/20
TOBYHANNA	4.3	1240	AM	12/20

...MONTGOMERY COUNTY...

ROCKLEDGE	16.5	1114	AM	12/20
WYNNEWOOD	16.5	1230	AM	12/20
KING OF PRUSSIA	14.2	1230	AM	12/20
ROYERSFORD	14.2	1158	AM	12/20
WILLOW GROVE	13.3	1100	PM	12/19
ABINGTON	13.2	1100	PM	12/19
TRAPPE	12.6	1200	PM	12/20
ELKINS PARK	11.3	1015	PM	12/19
ELKINS PARK	11.3	1014	PM	12/19
MONTGOMERYVILLE	11.0	1246	AM	12/20
EAGLEVILLE	10.0	930	PM	12/19
KULPSVILLE	10.0	1105	AM	12/20
AMBLER	9.5	1133	PM	12/20
SPRING MOUNT	8.8	958	AM	12/20
ROYERSFORD	8.3	910	PM	12/19
HARLEYSVILLE	8.0	1059	AM	12/20
POTTSTOWN	8.0	729	AM	12/20
UPPER POTTSBURY	8.0	1156	AM	12/20
SOUDERTON	7.0	1106	AM	12/20

NORTH WALES 6.0 1104 AM 12/20

...NORTHAMPTON COUNTY...

MARTINS CREEK 3.5 935 PM 12/19

...PHILADELPHIA COUNTY...

PHILADELPHIA 23.2 717 AM 12/20 INTERNATIONAL AIRPORT

PHILADELPHIA 18.3 1119 AM 12/20

SOMERTON 10.5 1030 PM 12/20

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