

## **WINTER STORM SUMMARY FOR FEBRUARY 13, 2014 TO FEBRUARY 14, 2014 EVENT**

### **Synopsis**

An area of low pressure was located near the coast of North Carolina during the early morning hours of February 13th, then tracked northeastward near the Mid Atlantic coast during the 13th into the 14th. The storm combined with plenty of cold air in place and produced a significant snowfall across much of our region. As the low pressure system intensified to our east, gusty northerly winds occurred especially closer to the Atlantic coast. The storm then moved away and allowed the snow to end in the early morning hours of the 14th.

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

At 3:38 PM Monday, February 10th, a Winter Storm Watch was issued for the following areas: New Castle, Kent and Inland Sussex counties in Delaware; Cecil, Kent, Queen Annes, Talbot and Caroline counties in Maryland; Salem, Gloucester, Camden, Northwestern Burlington, Southeastern Burlington, Ocean, Coastal Ocean, Atlantic, Coastal Atlantic, Cape May, Atlantic Coastal Cape May and Cumberland counties in New Jersey; Delaware, Philadelphia, Western Chester, Eastern Chester, Western Montgomery, Eastern Montgomery, Upper Bucks and Lower Bucks counties in Pennsylvania. At 3:43 PM February 11th, the watch area was upgraded to a Winter Storm Warning, except the following areas were placed under a Winter Weather Advisory: Cape May, Atlantic Coastal Cape May, Coastal Atlantic and Coastal Ocean counties in New Jersey; Delaware Beaches county in Delaware. At this same time, a Winter Storm Watch was issued for the following areas: Sussex, Warren, Morris, Hunterdon, Somerset, Middlesex, Western Monmouth, Eastern Monmouth and Mercer counties in New Jersey; Carbon, Monroe, Berks, Lehigh and Northampton counties in Pennsylvania. At 3:34 AM February 12th, the remaining Winter Storm Watch was upgraded to a Winter Storm Warning, and the other warnings and advisories remain unchanged.

At 6:17 AM February 13th, the Winter Storm Warning was cancelled for the following areas: Inland Sussex and Delaware Beaches counties in Delaware; Cape May, Atlantic Coastal Cape May, Coastal Atlantic and Coastal Ocean counties in New Jersey. At 9:31 AM February 13th, a Winter Weather Advisory was issued for Inland Sussex and Delaware Beaches counties in Delaware; Cape May, Atlantic Coastal Cape May, Coastal Atlantic and Coastal Ocean counties in New Jersey. At 1:55 AM February 14th, the Winter Storm Warning was cancelled for the following areas: Kent, Inland Sussex and Delaware Beaches in Delaware; Cecil, Kent, Queen Annes, Talbot and Caroline counties in Maryland; Berks, Western Chester and Eastern Chester counties in Pennsylvania. At 3:42 AM February 14th, the Winter Storm Warning was cancelled for the following areas: New Castle county in Delaware; Salem, Gloucester, Camden, Northwestern Burlington, Southeastern Burlington, Cumberland and Atlantic counties in New Jersey; Carbon, Monroe, Lehigh, Northampton, Delaware, Philadelphia, Western Montgomery, Eastern Montgomery, Upper Bucks and Lower Bucks counties in Pennsylvania. At this same time, the Winter Weather Advisory was cancelled for Cape May, Atlantic Coastal Cape May and Coastal Atlantic counties in New Jersey. At 5:01 AM February 14th, the Winter Storm Warning was cancelled for the following areas: Sussex, Warren, Morris, Hunterdon, Somerset,

Middlesex, Western Monmouth, Eastern Monmouth, Mercer and Ocean counties in New Jersey. At this same time, the Winter Weather Advisory was cancelled for Coastal Ocean county in New Jersey.

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

Yet another winter storm brought significant snowfall to much of the area along with significant impacts. The snow fell heavy at times during the morning hours of the 13th, when snowfall rates were reported to be 1 to 3 inches per hour across portions of eastern Pennsylvania and northern New Jersey.

The snowfall amounts generally ranged from 8 to 20 inches across eastern Pennsylvania, with the higher amounts from Berks County and the Lehigh Valley northeastward. In New Jersey, the snow amounts generally ranged from 5 to 14 inches, with the highest amounts closer to the Delaware River and into the northern portion of the state. In Delaware, snowfall amounts ranged from 1 to 14 inches, with the highest amounts in New Castle County. For the Eastern Maryland Shore, snowfall amounts generally ranged from 4 to 9 inches.

The winds during this storm were mainly from the north and northwest at 10 to 20 mph with some gusts to 30 mph.

### **Significant Impacts/Aspects**

Snowfall rates of 1 to 3 inches per hour during the morning of the 13th greatly impacted the snow removal process, as the plows could not keep up. In addition, significant impacts were felt at the regions airports with many cancellations and delays. This storm resulted in another snow day for many school districts across the region. The bridges over the Delaware River as well as many Interstates in the region had greatly reduced speed limits posted.

### **Notes**

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

PNS

PUBLIC INFORMATION STATEMENT

SPOTTER REPORTS: [http://www.erh.noaa.gov/phi/display\\_snow\\_from\\_pns.php](http://www.erh.noaa.gov/phi/display_snow_from_pns.php)

NATIONAL WEATHER SERVICE MOUNT HOLLY NJ

1129 AM EST FRI FEB 14 2014

THE FOLLOWING ARE UNOFFICIAL OBSERVATIONS TAKEN FOR THE STORM THAT HAS BEEN AFFECTING OUR REGION. ONLY SNOW TOTALS FROM BOTH 2/13 AND 2/14 WERE INCLUDED. REPORTS ARE STILL SUBJECT TO MORE QUALITY CONTROL CHECKS. SNOW DEPTH INCLUDES SNOW FROM PAST STORMS. APPRECIATION IS EXTENDED TO HIGHWAY DEPARTMENTS...COOPERATIVE OBSERVERS...SKYWARN SPOTTERS AND SOCIAL MEDIA 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	COMMENTS
		OF MEASUREMENT	
DELAWARE			
...NEW CASTLE COUNTY...			
NEWARK	13.4	901 AM 2/14	COCORAHS
PIKE CREEK	12.9	540 AM 2/14	TRAINED SPOTTER
WILMINGTON AIRPORT	12.5	700 AM 2/14	ASOS
MARYLAND			
...KENT COUNTY...			
GALENA	8.5	814 AM 2/14	TRAINED SPOTTER
NEW JERSEY			
...ATLANTIC COUNTY...			
PLEASANTVILLE	3.0	700 AM 2/14	TRAINED SPOTTER
ATLANTIC CITY AIRPOR	3.0	700 AM 2/14	ASOS
...BURLINGTON COUNTY...			
FLORENCE	12.7	1058 AM 2/14	TRAINED SPOTTER
RIVERTON	12.5	906 AM 2/14	TRAINED SPOTTER
MOUNT HOLLY WFO	12.2	700 AM 2/14	NWS OFFICE
LUMBERTON	12.2	1103 AM 2/14	NWS EMPLOYEE
MOUNT LAUREL	11.7	906 AM 2/14	NWS EMPLOYEE
MOORESTOWN	10.0	646 AM 2/14	TRAINED SPOTTER
TABERNACLE	8.3	931 AM 2/14	TRAINED SPOTTER
...CAMDEN COUNTY...			
LINDENWOLD	9.4	828 AM 2/14	TRAINED SPOTTER
...GLOUCESTER COUNTY...			
WASHINGTON TWP	11.6	330 AM 2/14	TRAINED SPOTTER
NATIONAL PARK	11.5	700 AM 2/14	TRAINED SPOTTER
...HUNTERDON COUNTY...			
KINGWOOD TWP	14.0	854 AM 2/14	TRAINED SPOTTER
FRENCHTOWN	13.5	918 AM 2/14	PUBLIC
WHITEHOUSE STATION	11.8	813 AM 2/14	BROADCAST MEDIA
READINGTON TWP	11.6	641 AM 2/14	TRAINED SPOTTER
THREE BRIDGES	9.3	916 AM 2/14	PUBLIC

...MERCER COUNTY...

HOPEWELL TWP	13.0	1028 AM	2/14	TRAINED SPOTTER
HIGHTSTOWN	10.5	737 AM	2/14	CO-OP OBSERVER
EWING	10.0	907 AM	2/14	TRAINED SPOTTER

...MIDDLESEX COUNTY...

METUCHEN	13.1	930 AM	2/14	TRAINED SPOTTER
SOUTH PLAINFIELD	11.2	641 AM	2/14	TRAINED SPOTTER
SPOTSWOOD	8.3	857 AM	2/14	TRAINED SPOTTER

...MONMOUTH COUNTY...

FREEHOLD	12.2	958 AM	2/14	TRAINED SPOTTER
CREAM RIDGE	11.6	1002 AM	2/14	TRAINED SPOTTER
MORGANVILLE	11.0	919 AM	2/14	PUBLIC
COLTS NECK	9.5	738 AM	2/14	TRAINED SPOTTER
MANALAPAN	9.5	1006 AM	2/14	TRAINED SPOTTER

...MORRIS COUNTY...

ROCKAWAY	17.3	1005 AM	2/14	TRAINED SPOTTER
BUTLER	16.0	447 AM	2/14	TRAINED SPOTTER
GREEN POND	15.8	1006 AM	2/14	TRAINED SPOTTER
BOONTON	15.1	905 AM	2/14	SOCIAL MEDIA
JEFFERSON TWP	15.0	738 AM	2/14	TRAINED SPOTTER
MARCELLA	14.5	804 AM	2/14	TRAINED SPOTTER
RANDOLPH TWP	10.5	853 AM	2/14	SOCIAL MEDIA

...OCEAN COUNTY...

BRICK TWP	3.6	1122 AM	2/14	TRAINED SPOTTER
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...SOMERSET COUNTY...

BOUND BROOK	13.8	958 AM	2/14	TRAINED SPOTTER
SOMERVILLE	13.5	1028 AM	2/14	TRAINED SPOTTER
1 NW BRIDGEWATER TWP	11.0	932 AM	2/14	TRAINED SPOTTER
BRIDGEWATER TWP	11.0	932 AM	2/14	TRAINED SPOTTER
HILLSBOROUGH TWP	10.6	1003 AM	2/14	TRAINED SPOTTER

...SUSSEX COUNTY...

HIGHLAND LAKES	19.2	920 AM	2/14	PUBLIC
WANTAGE	17.2	513 AM	2/14	TRAINED SPOTTER
SPARTA	16.1	857 AM	2/14	SOCIAL MEDIA
3 SW WANTAGE	14.1	628 AM	2/14	NWS EMPLOYEE

...WARREN COUNTY...

BLAIRSTOWN	19.1	736 AM	2/14	TRAINED SPOTTER
HOPE	16.0	1031 AM	2/14	TRAINED SPOTTER
STEWARTSVILLE	15.4	959 AM	2/14	TRAINED SPOTTER
HACKETTSTOWN	14.0	622 AM	2/14	TRAINED SPOTTER
ALLAMUCHY	13.0	555 AM	2/14	TRAINED SPOTTER

PENNSYLVANIA

...BERKS COUNTY...

HUFFS CHURCH	18.5	803 AM	2/14	TRAINED SPOTTER
KUTZTOWN	16.5	917 AM	2/14	PUBLIC
SINKING SPRING	15.5	917 AM	2/14	PUBLIC
NEW BERLINVILLE	13.0	905 AM	2/14	TRAINED SPOTTER
WERNERSVILLE	12.0	637 AM	2/14	TRAINED SPOTTER

...BUCKS COUNTY...

PERKASIE	17.0	524 AM	2/14	TRAINED SPOTTER
WEST ROCKHILL TWP	14.7	922 AM	2/14	PUBLIC
WARMINSTER	12.5	912 AM	2/14	PUBLIC
FURLONG	11.6	1027 AM	2/14	TRAINED SPOTTER
LOWER MAKEFIELD TWP	11.0	918 AM	2/14	PUBLIC
WARRINGTON	10.0	915 AM	2/14	PUBLIC

...CARBON COUNTY...

ALBRIGHTSVILLE	19.0	1128 AM	2/14	TRAINED SPOTTER
KIDDER TWP	14.0	609 AM	2/14	TRAINED SPOTTER

...CHESTER COUNTY...

HONEY BROOK	20.2	916 AM	2/14	PUBLIC
WEST CALN TWP	20.2	959 AM	2/14	TRAINED SPOTTER
EAST NANTMEAL	20.0	917 AM	2/14	PUBLIC
DOWNINGTOWN	18.0	854 AM	2/14	SOCIAL MEDIA
NEW LONDON	17.6	914 AM	2/14	PUBLIC
PUGHTOWN	17.0	915 AM	2/14	PUBLIC
COATESVILLE	15.8	908 AM	2/14	PUBLIC
EAST COVENTRY TWP	14.0	737 AM	2/14	TRAINED SPOTTER

...DELAWARE COUNTY...

CHADDS FORD	16.5	900 AM	2/14	SOCIAL MEDIA
CHESTER	15.0	1028 AM	2/14	TRAINED SPOTTER
CONCORD TWP	15.0	920 AM	2/14	PUBLIC
LANSDOWNE	12.5	909 AM	2/14	TRAINED SPOTTER
WAYNE	12.2	804 AM	2/14	TRAINED SPOTTER
DREXEL HILL	12.0	805 AM	2/14	TRAINED SPOTTER

...LEHIGH COUNTY...

ALLENTOWN AIRPORT	19.2	700 AM	2/14	ASOS
HEIDELBERG TWP	15.5	859 AM	2/14	TRAINED SPOTTER
SLATINGTON	15.2	630 AM	2/14	TRAINED SPOTTER
SCHNECKSVILLE	15.2	858 AM	2/14	TRAINED SPOTTER
WERLEYS CORNER	13.8	600 AM	2/14	TRAINED SPOTTER

...MONROE COUNTY...

3 W SAYLORSBURG	17.4	546 AM	2/14	TRAINED SPOTTER
BLAKESLEE	16.0	1004 AM	2/14	TRAINED SPOTTER

...MONTGOMERY COUNTY...

GILBERTSVILLE	14.5	804 AM	2/14	TRAINED SPOTTER
GRATERFORD	14.3	923 AM	2/14	TRAINED SPOTTER
WILLOW GROVE	13.5	909 AM	2/14	PUBLIC
MONTGOMERYVILLE	13.1	342 AM	2/14	TRAINED SPOTTER
NORRISTOWN	13.0	827 AM	2/14	CO-OP OBSERVER
KING OF PRUSSIA	12.6	803 AM	2/14	TRAINED SPOTTER
ROYERSFORD	12.5	907 AM	2/14	TRAINED SPOTTER
WYNNEWOOD	12.3	337 AM	2/14	TRAINED SPOTTER
AMBLER	11.0	821 AM	2/14	TRAINED SPOTTER

...NORTHAMPTON COUNTY...

BETHLEHEM	19.0	853 AM	2/14	SOCIAL MEDIA
DELPS	18.5	1029 AM	2/14	PUBLIC
FORKS TWP	17.0	1057 AM	2/14	TRAINED SPOTTER
BUSHKILL TWP	16.8	922 AM	2/14	TRAINED SPOTTER
HELLERTOWN	14.0	432 AM	2/14	TRAINED SPOTTER
MARTINS CREEK	12.8	646 AM	2/14	TRAINED SPOTTER

...PHILADELPHIA COUNTY...

PHILADELPHIA INTL AI	11.5	700 AM	2/14	ASOS
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\*\*\*\*\*SNOW ON GROUND\*\*\*\*\*

LOCATION	SNOW	TIME/DATE	COMMENTS
	ON GROUND	OF	
	/INCHES/	MEASUREMENT	

DELAWARE

...NEW CASTLE COUNTY...

2 S NEWARK	14.5	710 AM	2/14	COCORAHNS
4 SSW NEWARK	11.0	700 AM	2/14	COCORAHNS

...SUSSEX COUNTY...

1 SW SEAFORD	0.3	700 AM	2/14	COCORAHNS
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MARYLAND

...CAROLINE COUNTY...

1 ENE GREENSBORO	1.5	700 AM	2/14	COCORAHNS
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...CECIL COUNTY...

5 NW ELKTON	14.0	700 AM	2/14	COCORAHNS
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...TALBOT COUNTY...

1 SE ST. MICHAELS	0.8	800 AM	2/14	COCORAHS
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NEW JERSEY

...ATLANTIC COUNTY...

4 WNW ESTELL MANOR	3.0	900 AM	2/14	COCORAHS
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5 NE ESTELL MANOR	0.6	700 AM	2/14	COCORAHS
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1 NW EGG HARBOR TWP	0.3	700 AM	2/14	COCORAHS
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...BURLINGTON COUNTY...

1 SE MOORESTOWN TWP	14.5	828 AM	2/14	COCORAHS
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3 ENE MOUNT LAUREL T	14.0	700 AM	2/14	COCORAHS
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5 WNW TABERNACLE TWP	10.0	800 AM	2/14	COCORAHS
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...CAMDEN COUNTY...

1 NE COLLINGSWOOD	8.5	600 AM	2/14	COCORAHS
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4 W WINSLOW TWP	6.0	700 AM	2/14	COCORAHS
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...CAPE MAY COUNTY...

WSW WILDWOOD CREST	T	715 AM	2/14	COCORAHS
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...GLOUCESTER COUNTY...

W PITMAN	5.5	700 AM	2/14	COCORAHS
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...HUNTERDON COUNTY...

3 NNE HOLLAND TWP	24.0	700 AM	2/14	COCORAHS
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4 NW STOCKTON	23.5	700 AM	2/14	COCORAHS
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1 NW CALIFON	19.5	800 AM	2/14	COCORAHS
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1 S BETHLEHEM TWP	19.5	800 AM	2/14	COCORAHS
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4 N CLINTON TWP	19.5	800 AM	2/14	COCORAHS
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3 N LEBANON	18.0	730 AM	2/14	COCORAHS
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E FLEMINGTON	17.5	630 AM	2/14	COCORAHS
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2 E FLEMINGTON	17.0	800 AM	2/14	COCORAHS
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3 SW LEBANON	14.5	700 AM	2/14	COCORAHS
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...MERCER COUNTY...

1 NNW LAWRENCE TWP	14.5	530 AM	2/14	COCORAHS
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1 ENE PENNINGTON	14.0	850 AM	2/14	COCORAHS
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2 NW HOPEWELL TWP	12.0	700 AM	2/14	COCORAHS
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2 SSW LAWRENCE TWP	10.0	800 AM	2/14	COCORAHS
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...MIDDLESEX COUNTY...

3 NW SOUTH BRUNSWICK	18.0	900 AM	2/14	COCORAHS
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2 W NORTH BRUNSWICK	16.0	700 AM	2/14	COCORAHS
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...MONMOUTH COUNTY...

4 SSW HOWELL TWP	9.5	725 AM	2/14	COCORAHS
1 NW RED BANK	7.5	700 AM	2/14	COCORAHS
1 W LONG BRANCH	5.5	615 AM	2/14	COCORAHS

...MORRIS COUNTY...

NNW ROCKAWAY	24.0	800 AM	2/14	COCORAHS
1 NE ROCKAWAY TWP	23.0	800 AM	2/14	COCORAHS
WNW FLORHAM PARK	23.0	800 AM	2/14	COCORAHS
1 W RANDOLPH TWP	23.0	630 AM	2/14	COCORAHS
1 SSW MORRIS PLAINS	22.5	800 AM	2/14	COCORAHS
4 W WASHINGTON TWP	22.0	700 AM	2/14	COCORAHS
2 E RANDOLPH TWP	18.0	800 AM	2/14	COCORAHS

...OCEAN COUNTY...

2 S JACKSON TWP	9.8	700 AM	2/14	COCORAHS
3 SSE BERKELEY TWP	1.5	700 AM	2/14	COCORAHS
1 SW POINT PLEASANT	1.5	700 AM	2/14	COCORAHS
6 E LACEY TWP	0.5	530 AM	2/14	COCORAHS
5 N LITTLE EGG HARBO	T	500 AM	2/14	COCORAHS

...SALEM COUNTY...

2 NNW PENNSVILLE TWP	8.5	707 AM	2/14	COCORAHS
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...SOMERSET COUNTY...

1 NNW BERNARDS TWP	19.5	730 AM	2/14	COCORAHS
2 ENE FRANKLIN TWP	19.0	700 AM	2/14	COCORAHS
3 NW BRIDGEWATER TWP	18.0	700 AM	2/14	COCORAHS
4 ENE FRANKLIN TWP	18.0	830 AM	2/14	COCORAHS
5 ESE HILLSBOROUGH T	16.0	700 AM	2/14	COCORAHS

...SUSSEX COUNTY...

3 SE HARDYSTON TWP	21.5	800 AM	2/14	COCORAHS
2 N VERNON TWP	21.0	700 AM	2/14	COCORAHS
2 W ANDOVER TWP	20.5	700 AM	2/14	COCORAHS

...WARREN COUNTY...

1 ENE WASHINGTON	24.0	800 AM	2/14	COCORAHS
2 S GREENWICH TWP	24.0	700 AM	2/14	COCORAHS
1 W HACKETTSTOWN	22.0	700 AM	2/14	COCORAHS
2 WSW LIBERTY TWP	21.0	500 AM	2/14	COCORAHS

PENNSYLVANIA

...BERKS COUNTY...

3 SSW MOHNTON	22.5	800 AM	2/14	COCORAHS
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...BUCKS COUNTY...

3 NE LANGHORNE	14.0	700 AM	2/14	COCORAHS
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1 WSW PENNDEL	13.0	700 AM	2/14	COCORAHS
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...CHESTER COUNTY...

1 SSW EAST NANTMEAL	27.0	700 AM	2/14	COCORAHS
2 SSE WEST CHESTER	15.5	730 AM	2/14	COCORAHS
3 W WEST GROVE	15.0	700 AM	2/14	COCORAHS

...MONTGOMERY COUNTY...

2 NNE POTTSTOWN	19.5	700 AM	2/14	COCORAHS
2 SW HARLEYSVILLE	19.0	700 AM	2/14	COCORAHS
2 NW BLUE BELL	13.5	800 AM	2/14	COCORAHS
1 S GILBERTSVILLE	13.0	700 AM	2/14	COCORAHS

...NORTHAMPTON COUNTY...

4 S GLENDON	21.0	700 AM	2/14	COCORAHS
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...PHILADELPHIA COUNTY...

1 SE ROCKLEDGE	15.0	600 AM	2/14	COCORAHS
5 NE PHILADELPHIA	11.0	700 AM	2/14	COCORAHS

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