



WEATHERWORKS

THE WEATHER TRACKER

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Who has seen snowfall this Nov?

| | |
|------------------|------|
| Allentown, PA | 3.5" |
| Hackensack, NJ | 0.5" |
| Harrisburg, PA | 1.0" |
| Morristown, NJ | 3.5" |
| Newark, NJ | 0.2" |
| New Brunswick NJ | 0.1" |
| Lancaster, PA | 0.3" |
| Scranton, PA | 2.5" |
| Quakertown, PA | 0.4" |

A Typical November Weather-Wise...With One Exception



Snowfall in N. Somerset County, NJ on the morning of 11-19-07

Across the Mid-Atlantic, the month ended up being very typical of what November usually represents...cool, wet and occasionally very changeable. Thru NJ and PA, temps averaged slightly cooler than normal, however there were several long stretches where nearly 2/3rds of the month featured slightly below normal average temps. Meanwhile, across Maryland

temps were right around average levels.

Precip-wise, totals were below normal again across Maryland with no major weather systems providing a heavy or soaking rainfall. Generally, precipitation across the rest of the Mid-Atlantic was at or below normal, however the big story was the event that took place in the middle of November.

An unusual set-up took place through the Northern Mid-Atlantic as a very slow moving low pressure system crawled across the region. Some rain did affect Maryland, but the bulk of the moisture was across E. PA and NJ. Cold air was in place and although most

Top Snow totals: Nov 17-19

| | |
|----------------------|------|
| Mount Pocono, PA | 10.8 |
| East Stroudsburg, PA | 6.5 |
| Montague, NJ | 6.5 |
| Morristown, NJ | 3.5 |
| Reading, PA | 2.0 |

areas saw rain, Northern locales had snow. In fact, the anomalous nature of the system, resulted in locations seeing nearly 30 straight hours of snow!!! However, the light intensity and marginal temps did not result in accumulation for the most part. It was not until night-time and when stronger bands of snow developed that accumulations started. The chart above shows a few selected totals.

The end of November and beginning of December looks increasingly stormier as a pattern shift takes place. This shift will also usher in the first real cold air mass of the season.

Tackling Winter's Challenges: Freezing Rain

Just the words freezing rain are enough to make anyone concerned. Freezing rain can often have greater impacts than even a snowstorm since it is harder to clear. This is especially problematic when temperatures are well below freezing as chemical deicers are not as effective.

Freezing rain falls when temperatures at the surface are at or below freezing, and air above the surface is above freezing. Often this setup is brought about when a storm brings in warm air as it passes by. But the more dangerous situation is when a storm system looks weak and warm

and moves in during the overnight hours.

In this instance, sometimes skies will be clear for a time early in the night (5-8PM) and temperatures fall quickly. Despite the storm being warm, or even bringing in more warm air, the surface can take a while to warm. The end result is rain falling from clouds freezes on contact with ground surfaces. It is important to note that only a couple drops of rain are enough to cause serious problems on not only on pavements but also, buildings, trees and power

lines. Also worth noting is that given ideal cooling conditions (clear skies and calm winds) it only takes an hour or two for temperatures to drop significantly from daytime highs. This could be enough to cool temperatures below freezing, even if daytime temperatures had been as high as 50.



1998 Ice Storm in Quebec

Website of the Month



<http://www.youtube.com/watch?v=EHTXh3R66hE>

Don't make a meteorologist mad!!! This website of the month shows the lighter side of the media aspect of weather. A couple additional videos are on the side

Welcome New Clients!

Welcome to all that are new with Weather Works this season! The Weather Tracker is the monthly newsletter from the company. You will find useful weather related articles as well as any important company information that needs to be shared.

Also, all of the past Weather Tracker's are archived on the website.



UPCOMING EVENTS

- Dec. 1 Unofficial start of Winter
- Dec. 4 Hanukkah begins
- Dec. 25 Christmas Day

DECEMBER AVERAGES (30 year averages: 1971-2000)

| | Sussex, NJ | | Philadelphia, PA | | Baltimore, MD (BWI) | |
|----------------------|------------|---------|------------------|---------|---------------------|---------|
| | Dec 1 | Dec 31 | Dec 1 | Dec 31 | Dec 1 | Dec 31 |
| High Temp | 45 | 36 | 49 | 40 | 51 | 42 |
| Low Temp | 25 | 17 | 35 | 27 | 31 | 24 |
| Precip (Mo. Total) | 3.63" | | 3.31" | | 3.35" | |
| Snowfall (Mo. Total) | 7.3" | | 2.1" | | 1.7" | |
| Sunrise | 7:04 AM | 7:24 AM | 7:03 AM | 7:22 AM | 7:07 AM | 7:26 AM |
| Sunset | 4:30 PM | 4:39 PM | 4:36 PM | 4:45 PM | 4:44 PM | 4:53 PM |

December Temperature Outlook

Look for temps near to a few degrees below normal for the month. There are indications cold pockets of air will pivot through the region from time to time likely keeping temps slightly below normal.

December 2007 Precipitation Outlook

Expect a changeable month, with at least a few snow/ice threats. Given the snow event in November, and a favorable setup, there is little doubt all areas have the potential for a Dec. snow event.

Meet the staff at Weather Works

With the Winter season well underway, [WeatherWorks](#) would like to introduce some of the meteorologists that you will be talking with during the season!

First, [WeatherWorks](#) is happy to



announce that Ken Elliott is now part of our full-time staff. Ken has been working for the past year and many of you likely have talked to him as we set up the Contacts for snow and ice alerts this season.

There is a combined 40+ years of forecasting experience on the staff, including meteorologist [Frank Lombardo](#), founder and president of Weather Works. Some of the other meteorologists that you will be talking with include [Tommy](#)

[Else](#), [Kevin Hopler](#) and [Sean Rowland](#).

Thru the season, different meteorologists will have different areas of responsibility. Most times, Kevin and Sean usually focus on the Mid-Atlantic, Frank with N. NJ and NE PA, while Tommy and Ken focus on NY and NE. This will often switch during weekends and other shift changes. We look forward to talking to you and good luck with snow and ice removal this Winter!

What is Meteorological Winter?

When referring to the four seasons; Winter, Spring, Summer and Fall, most people have a general understanding of when those seasons are. However, occasionally you may hear a meteorologist talking about "Meteorological Winter", which actually has a different time period. The table to the right helps to define the meteorological seasons and they are all broken into three month segments (ie. Summer is June, July and August).

The reason some meteorologists use these definitions is that it helps with climatological records

when breaking down the season into three complete monthly periods. It also is the main perception of what the general public feels is truly "Winter" or "Spring". So, if you ever here somebody refer

to the beginning of Meteorological winter or that Spring starts on March 1st, keep in mind that they are referring to a different definition of the season!

| Defining Weather Seasons | | |
|--------------------------|-------------------------|-------------------|
| Season | Astronomical (Official) | Meteorological |
| Winter | Dec 21/22 - Mar 20/21 | Dec 1 - Feb 28/29 |
| Spring | Mar 20/21 - Jun 20/21 | Mar 1 - May 31 |
| Summer | Jun 20/21 - Sep 22/23 | June 1 - Aug 31 |
| Autumn | Sep 22/23 - Dec 21/22 | Sep 1 - Nov 30 |