



**Expert Weather Report**  
**Flooding**

Written for:

The intersection of Noxon Road & Titusville Road  
Poughkeepsie, New York  
April 14-16, 2007

Case/Claim Reference:  
ABC vs XYZ / 123456789

Report Prepared For:  
XYZ Law Offices  
Attention: Charles Nelson

Veritas Weather  
Phone number: 1-843-564-0058  
Email: [weatherexpert@veritasweather.com](mailto:weatherexpert@veritasweather.com)

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## ***Report Profile***

**Date Report Prepared:** January 1, 2008

**Report Written For:** XYZ Law Offices  
123 Cumulus Street  
Sun City, Florida 11111  
Attention: Charles Nelson

**Case/Claim Reference:** ABC vs XYZ / 123456789

**Date of Incident:** April 16, 2007

**Time of Incident:** 8 AM EDT

**Time Period of Analysis:** April 14-16, 2007

**Incident Location:** Intersection of Titusville Road & Noxon Road –  
Poughkeepsie, New York

**Incident Type:** Automobile Accident / Flooding

## ***Abstract***

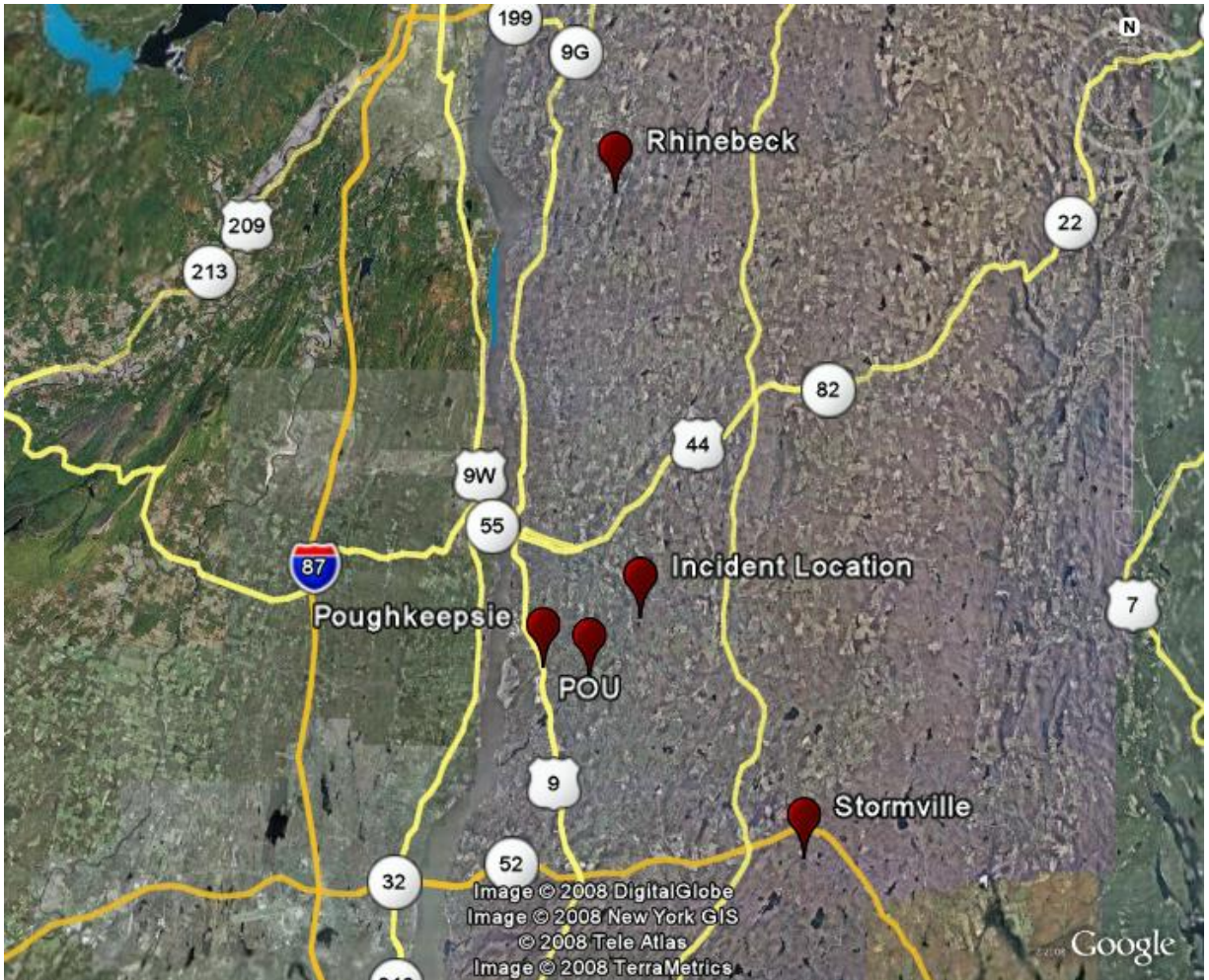
After a thorough investigation of all weather data and information during the period April 14-16, 2007 it has been determined that on April 16, 2007 at 8 AM EDT (date and time of the incident) rain was falling, and the temperature was around 43° F. Widespread flooding and road closures were being reported across Dutchess County (county location of the incident) at this time due to the 4.86 inches of heavy rain that had fallen since 3 AM EDT on April 15, 2007.

## ***Introduction***

This analysis is based on weather data gathered in the vicinity of the intersection of Titusville Road & Noxon Road – Poughkeepsie, New York during the period April 14-16, 2007 (date of the incident and 2 days prior). All data used in this analysis is official and certifiable National Weather Service (NWS) data. This analysis required the use of surface weather observations, special weather statements, advisories, storm data and surface maps. The following is a list of all data sites utilized in this report followed by their approximate distance from the incident site.

Dutchess County Airport – Poughkeepsie, New York (POU) – 3 miles  
Poughkeepsie, New York – 4 miles  
Stormville, New York – 10 miles  
Rhinebeck 4 SE, New York – 15 miles

**Map of Reporting Sites & Incident Location**



## *Synoptic Overview*

On Saturday April 14, 2007 the area was under the influence of weak high pressure while an area of low pressure moved out of the Western Gulf of Mexico and into the lower Ohio Valley. On Sunday the 15<sup>th</sup> the area of low pressure moved east, intensifying rapidly as the system moved through the Carolinas and off of the Mid Atlantic Coastline. The storm strengthened into a very powerful storm, as it tracked northward up the Eastern Seaboard on Sunday night. By Monday morning the 16<sup>th</sup> the storm was nearly stationary over the New York City Metropolitan area. The storm slowly drifted northeast throughout the day on Monday and by the morning hours on Tuesday the 17<sup>th</sup> the storm was out to sea well east of Cape Cod, Massachusetts . The storm was responsible for bringing heavy rains and flooding to a large portion of the Northeast.

## *Weather Analysis*

On April 14, 2007, no precipitation occurred. The sky was variably cloudy through early afternoon then mostly clear thereafter. The temperature ranged from a high of around 52° F, to a low of around 36° F. In addition, no snow or ice was present on the ground.

On April 15, 2007, rain began around 3 AM EDT and continued, heavily at times, through the remainder of the day. Approximately 3.65 inches of rain fell on this day. The temperature ranged from a high of around 42° F, to a low of around 36° F. In addition, no snow or ice was present on the ground. At 2:29 PM EDT the National Weather Service (NWS) issued a flood warning for urban areas and small streams in Dutchess County (county location of incident) in effect until 2:15 AM EDT on April 16, 2007.

On the date of the incident, April 16, 2007, rain continued from the 15<sup>th</sup> and fell heavily at times through around 10 AM EDT on this day. The rain mixed with a few wet snow flakes at times. Occasional light rain fell from around 10 AM EDT through the remainder of the day. Approximately 1.34 inches of rain fell on this day. The temperature ranged from a high of around 42° F, to a low of around 36° F. In addition, no snow or ice was present on the ground. At 2:10 AM EDT the NWS extended the flood warning for urban areas and small streams in Dutchess County until 10 AM EDT on this day. At 9:57 AM EDT the NWS extended the flood warning for urban areas and small streams until 10 PM EDT on this day. At 9:58 PM EDT the NWS extended the flood warning until 10 AM EDT on April 17th.

The heavy rain that fell from around 3 AM EDT on the 15<sup>th</sup> through the 16th led to widespread flooding of small streams and creeks across the county, which began

during the early morning hours of Monday, April 16th, and persisted throughout the day. Widespread flooding led to numerous road closures, which included large stretches of the Taconic State Parkway in both directions throughout the county. In addition, numerous home foundation collapses were reported near Stormville during the morning on the 16th. Widespread flooding occurred across the lower and mid Hudson Valley region from late on the 15<sup>th</sup> through the evening hours on the 16<sup>th</sup>.

On April 16, 2007 at 8 AM EDT (date and time of the incident), rain was falling, and the temperature was around 43° F. Widespread flooding and road closures were being reported across the county at this time due to the 4.86 inches of rain that had fallen since 3 AM EDT on the 15<sup>th</sup>.

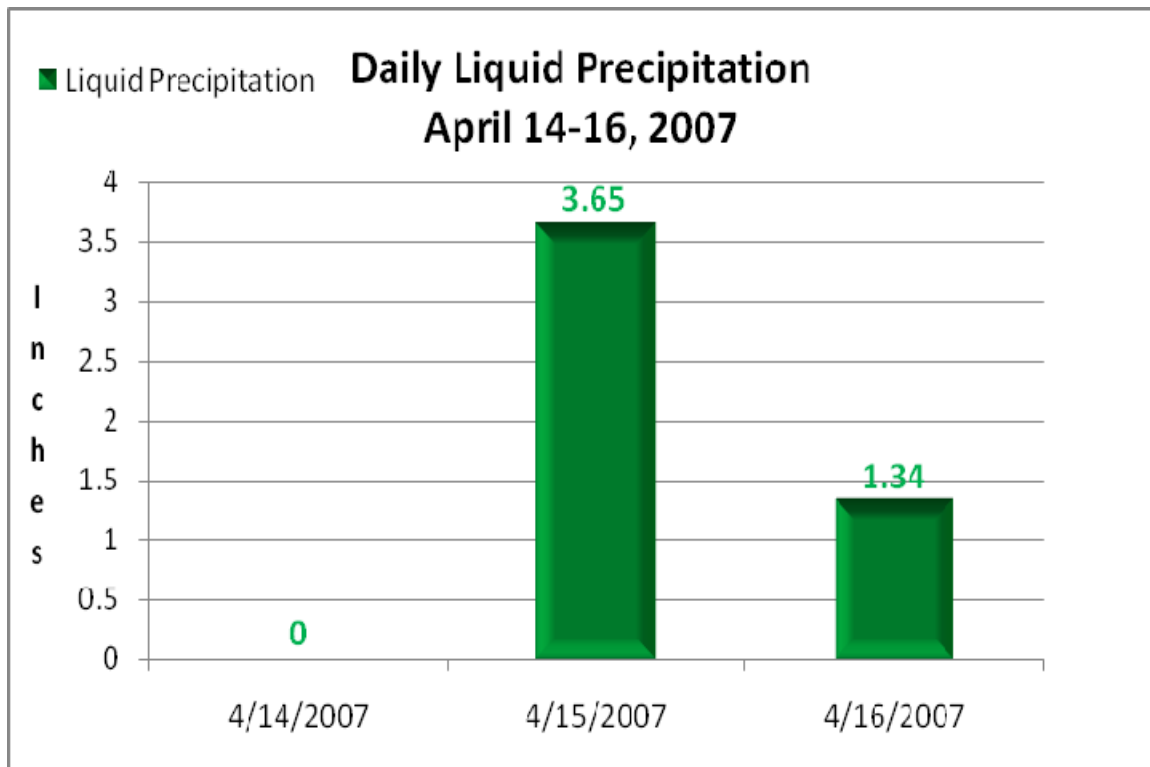
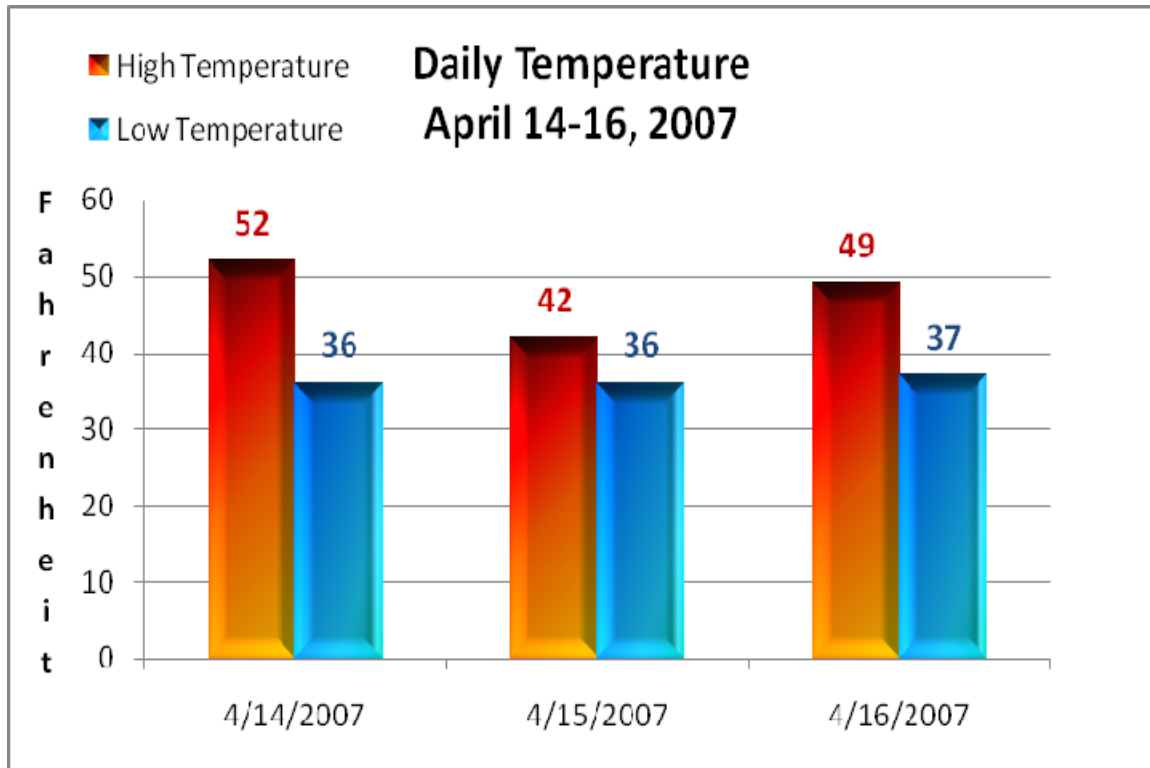
\*Snow and ice depth is defined as snow and ice on undisturbed, untreated, exposed outdoor surfaces.

### ***Tabular Analysis***

The following is a table of daily high/low temperature (° F), liquid equivalent precipitation (inches), snowfall (inches) and snow depth (measured in inches at the end of the day) for the period April 14-16, 2007. Note that a trace is defined as less than 0.01 inch of liquid equivalent precipitation, less than 0.1 inch of snowfall, and less than 0.5 inch of snow depth on the ground.

<b>Date</b>	<b>High</b>	<b>Low</b>	<b>Liquid Precipitation</b>	<b>Snowfall</b>	<b>Snow Depth</b>
4/14	52	36	0.00	0.0	0
4/15	42	36	3.65	0.0	0
4/16	49	37	1.34	Trace	0

## Graphical Analysis



## ***Conclusion***

After a thorough review of all available weather data it can be concluded that on April 16, 2006 at 8 AM EDT (date and time of the incident), rain was falling, and the temperature was around 43° F. Widespread flooding and road closures were being reported across the Dutchess County (county location of the incident) at this time due to the 4.86 inches of heavy rain that had fallen since 3 AM EDT on the 15<sup>th</sup>. In addition, the National Weather Service issued a flood warning for urban areas and small streams that was in effect at the time of the incident.



**Phone: 843-564-0058**

**Email: [weatherexpert@veritasweather.com](mailto:weatherexpert@veritasweather.com)**

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