



Expert Weather Report
Doppler Radar Wind Analysis

Written for:

Intersection of West Lenox Avenue & South 1st Street
Springfield, Illinois 62704
March 12, 2006

Claim Reference:

1234567

Report Prepared For:

XYZ Insurance Company
Attention: Charles Nelson

Veritas Weather

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Report Profile

Date Report Prepared: January 1, 2008

Report Written For: XYZ Insurance Company
123 Cumulus Street
Sun City, Florida 11111
Attention: Charles Nelson

Claim Reference: 1234567

Date of Incident: March 12, 2006

Time of Incident: 8:20 PM CST

Time Period of Analysis: March 12, 2006

Incident Location: Intersection of West Lenox Avenue & South 1st Street – Springfield, IL 62704

Incident Type: Wind Damage

Abstract

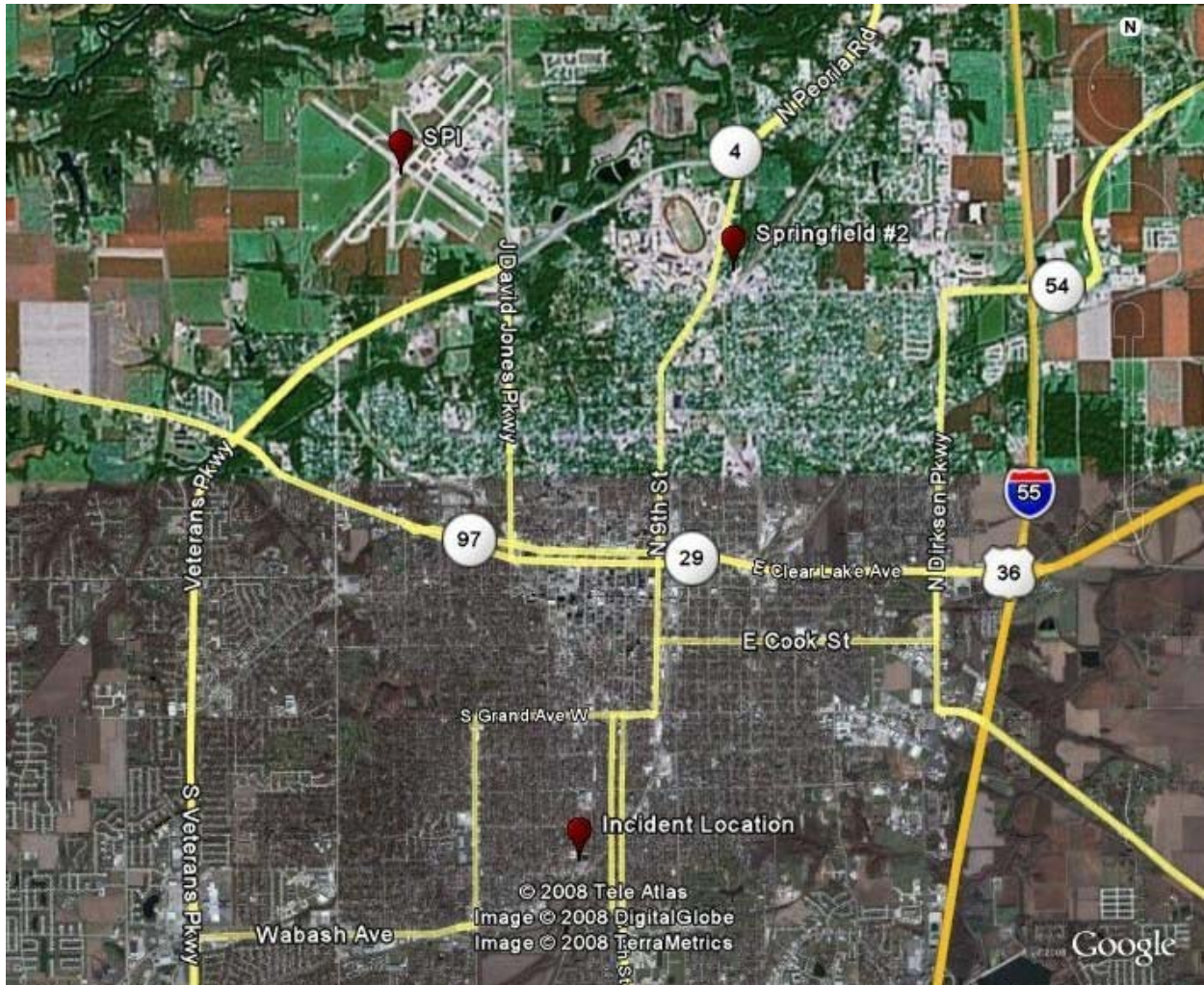
After a thorough investigation of all weather data and information on March 12, 2006 it has been determined that at 8:20 PM CST (date and time of the loss) a tornado was occurring in the vicinity of the intersection of West Lennox Avenue & South 1st Street – Springfield, IL. The tornado was reported as a F2 tornado on the Fugita Scale. A F2 Tornado correlates to winds speeds of 113-157 mph.

Introduction

This analysis is based on weather data gathered in the vicinity of the intersection of West Lenox Avenue & South 1st Street – Springfield, IL on March 12, 2006 (date of the incident). 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, surface maps and WSR-88D Doppler Radar images from the National Weather Service Doppler Radar site in Lincoln, Illinois. The following is a list of all data sites utilized in this report followed by their approximate distance from the incident site.

Springfield Capital Airport – Springfield, IL (SPI) – 5 miles
Springfield #2, IL - 4 miles

Map of Reporting Sites & Incident Location



Synoptic Overview

During the early morning hours of Sunday March 12th a cold front moved from northwest to southeast through the Springfield, IL area. During the same time an area of developing low pressure began to form over the Central Rockies and Central Plains, while an area of cold high pressure settled over the Upper Midwest. By afternoon, the cold front began slowly moving back north as a warm front toward Springfield while the area of developing low pressure became more organized over Central Kansas. The warm front approaching Springfield separated a clash of very cold air to the northwest from warm and humid air to the south. By evening the area of low pressure and associated warm front moved through the Springfield area. The clash of cold air with the warm and moist air, combined with a significant wind shift in the atmosphere, set the stage for severe thunderstorms and tornadoes across Central Illinois during the evening hours on the 12th.

Weather Analysis

On March 12, 2006 (date of the incident), rain showers occurred from around 12:45 AM through around 1:30 AM CST. Areas of fog and light mist occurred from around 4 AM CST through around 1PM CST with the weather related visibility lowering to below 1 mile at times. The sky was partly cloudy through around 7 AM CST, then mostly cloudy through around 5 PM CST. From 5 PM through 7 PM CST the sky was mostly clear, then mostly cloudy after 7 PM CST. Severe thunderstorms moved through the area between approximately 7:45 PM and 9:15 PM CST. Wind speeds outside of these thunderstorms were sustained (steady) around 0-16 mph. During the thunderstorm, between approximately 7:45 PM and 9:15 PM CST, the nearest National Weather Service reporting site reported sustained winds of 7-52 mph and a peak wind gust to near 58 mph.

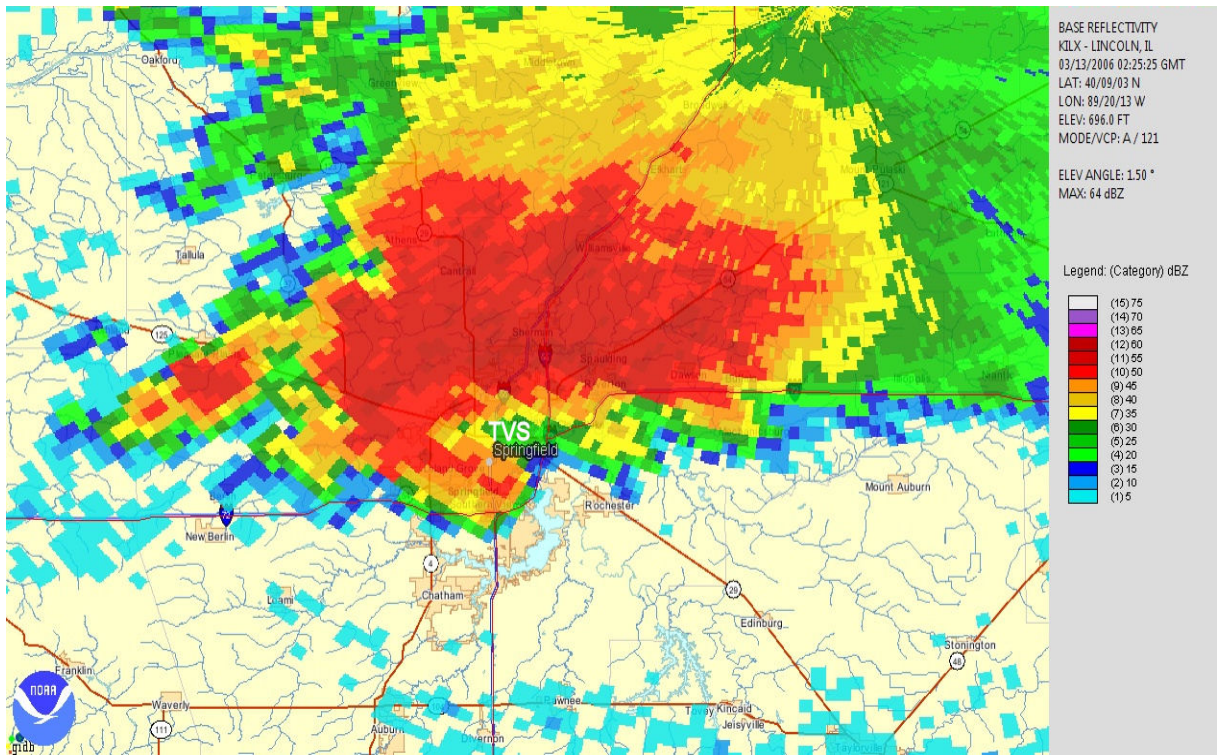
After an analysis of the surrounding official weather data and Doppler Radar on March 12, 2006, it has been determined that a tornado was associated with the severe thunderstorm that passed through the intersection of West Lenox Avenue & South 1st Street – Springfield, MO between 7:45 PM and 9:15 PM CST. There was a National Weather Service storm report of a tornado touching down about 1/4 mile north of the Bunn Park golf course, then tracking to the northeast. The tornado then affected 15th Street, Cornell Avenue, South Grand Avenue, and Pope Avenue. The tornado continued to track northeast across Old Rochester Road, Singer Avenue, and Cook Street from White City Boulevard to a block east of Dirksen Parkway. The tornado crossed Interstate 55 at the Clear Lake Avenue interchange, and overturned a semi truck. The tornado then dissipated near Old Route 36, about 3/4 mile southwest of the Village of Clear Lake. The tornado tore roofs off homes and caused extensive damage to power poles and lines, along with numerous downed trees. The tornado was determined to be a F2

tornado with winds between 113-157 mph. Doppler radar indicates that the tornado likely affected the intersection of West Lenox Avenue & South 1st Street – Springfield, MO between 8:15 PM and 8:30 PM CST.

The National Weather Service in Lincoln, Illinois issued a tornado warning at 7:43 PM CST in effect for the area until 8:30 PM CST.

Graphical Analysis

The following Doppler Radar image is from the Lincoln, Illinois Doppler Radar taken at 8:25 PM CST on March 12, 2006. The image clearly indicates a Tornado Vortex Signature (TVS) located in the vicinity of the intersection of West Lenox Avenue & South 1st Street – Springfield, IL. The area where the Tornado would have been is indicated by “TVS” on the following map.



Conclusion

After a thorough review of all available data it can be concluded that on March 12, 2006 at 8:20 PM CST (date and time of the incident), a severe thunderstorm containing a tornado was in the vicinity of intersection of West Lenox Avenue & South 1st Street – Springfield, IL. The tornado was determined to be a F2 tornado on the Fujita Scale. A F2 tornado correlates to wind speeds of 113-157 mph. In addition the National Weather Service issued a tornado warning in effect for the area from 7:43 PM CST through 8:30 PM CST.



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