

Bow Echo Event April 26th , 2016

Overview

A bow echo developed across central Missouri and moved east across the St. Louis Metropolitan area during the early afternoon of April 26th 2016 causing severe wind damage. The greatest and most widespread wind damage occurred from northwest of Marthasville to northeast of Defiance in Warren and St. Charles Counties in Missouri where thousands of trees were toppled by 80 mph winds. Two weak tornadoes were also surveyed from this storm system in Warren and St. Charles Counties.



0.5° Reflectivity (left) and 0.5° Base Velocity (right) at 1:30 PM CDT. Blue colors on the velocity image indicate wind speeds of 60 to 100 mph at 400 to 800 feet above ground level. A 20 mile long and 3 mile wide area stretching from northwest of Marthasville to just north of Defiance experienced severe thunderstorm wind gusts up to 80 mph. This led to significant and widespread tree damage, minor structural damage to houses and widespread power outages.

Damage Surveys



Damage Survey Map.

Widespread Wind Damage Warren and St. Charles Counties

Maximum Wind Speed: 80 MPH Path Length: 20.5 miles Path Width: 3 miles Fatalities: None Injuries: None









0.5° Reflectivity (upper left), 0.5° Storm Relative Velocity (upper right), 0.5° Correlation Coefficient (bottom left), and 0.5° Base Velocity (bottom right) at 1:00 PM CDT. The yellow circle highlights the location of the tornadic circulation near the apex of the bowing line segment.

Pinckney EF1 Tornado

Maximum Wind Speed: 100 MPH Path Length: 5.6 miles Path Width: 100 yards Fatalities: None Injuries: None

4/26/2016 12:52 PM CDT – 1:02 PM CDT

A EF1 tornado caused significant tree damage across portions of southwestern Warren County. A damage survey revealed a 5.6 mile long path that was up to 100 yards wide. The most significant damage occurred along Bernheimer Road where up to 100 trees were snapped and twisted to the southeast.



Tree damage along Bernheimer Road.



New Melle EF0 Tornado

Maximum Wind Speed: 70 MPH Path Length: 0.3 miles Path Width: 50 yards Fatalities: None Injuries: None

4/26/2016 1:24 PM CDT - 1:25 PM CDT

A weak EFO tornado was surveyed north of the main core od damaging winds near the intersection of Missouri Highway D and T, roughly 4 miles west-southwest of New Melle. Trees were topped and metal from an outbuilding was deposited up to 200 yards to the north of the touchdown.



Metal roofing thrown up to 200 yards into the farm field.

Please note that while the severe weather data presented in this event synopsis has been quality controlled, it is still considered unofficial. Official reports & statistics for severe weather events can be found in the *Storm Data* publication (<u>http://www.ncdc.noaa.gov/IPS/sd/sd.html</u>) or *Storm Events Database* <u>http://www.ncdc.noaa.gov/stormevents/</u>), available from the National Centers for Environmental Information (NCEI) web page [formerly the National Climate Data Center (NCDC)].

More detailed tornado track information can be accessed using the National Weather Service Damage Assessment Toolkit for all tornadoes beginning in 2012. <u>https://apps.dat.noaa.gov/StormDamage/DamageViewer/</u>

Any questions regarding this event review should be address to w-lsx.webmaster@noaa.gov