

PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE GRAND FORKS ND
930 AM CDT MON OCT 06 2025

...Enderlin Tornado #1 Upgraded to EF-5...

The National Weather Service in Grand Forks conducted additional surveys and worked extensively with wind damage experts to further investigate the 20 June 2025 Enderlin, ND tornado #1. The estimated maximum wind speed of the Enderlin, ND tornado #1 is greater than 210 mph and occurred during the time of the train derailment south of Enderlin, ND. The analysis involved forensic damage wind speed estimates for tipping several fully-loaded grain hopper cars and lofting of tanker cars, including one empty tanker car that was tossed about 475.7 ft (145 m). The maximum wind speed also correlates to the maximum strength on WSR-88D Storm-Relative Velocity data from KMXV.

Additional high-end damage indicators that have been reanalyzed and adjusted to include damage to the trees near the Maple River east of Enderlin and damage to the farmstead #2 on Hwy 46. Further analysis of the trees surrounding the Maple River show extensive tree damage throughout the entire river valley with only stubs of large branches or large trunks remaining and debarking with a "sandpapering" effect prevalent. Trees with attached root ball displacements were noted, including one where the original location could not be determined. Wind damage expert analyses helped determine the damage at farmstead #2 to be complete destruction with the foundation considered to be swept clean and debris swept downwind and scattered. However, issues surrounding the lack of proper anchoring will limit the overall rating in this area. Trees around the farmstead were also debarked, and saw root ball displacements.

The National Weather Service in Grand Forks would like to thank Tim Marshall, Jim LaDue, Dr. Connell Miller, Dr. Greg Kopp, Dr. David Sills, and the entire Northern Tornadoes Project at Western University's Canadian Severe Storms Laboratory team for their assistance.

ENDERLIN TORNADO #1...

Rating: EF5

Estimated Peak Wind: Greater than 210 mph

Path Length /statute/: 12.10 miles

Path Width /maximum/: 1850 yards/1.05 miles

Fatalities: 3

Injuries: 0

Start Date: 06/20/2025

Start Time: 11:02 PM CDT

Start Location: 3 S Enderlin / Ransom County / ND

Start Lat/Lon: 46.5728 / -97.6031

End Date: 06/20/2025

End Time: 11:21 PM CDT

End Location: 5 SSW Alice / Cass County / ND

End Lat/Lon: 46.687 / -97.5803

This information can also be found on our website at weather.gov/fgf.

For reference, the Enhanced Fujita Scale classifies tornadoes into the following categories:

EF0...WIND SPEEDS 65 TO 85 MPH.

EF1...WIND SPEEDS 86 TO 110 MPH.

EF2...WIND SPEEDS 111 TO 135 MPH.

EF3...WIND SPEEDS 136 TO 165 MPH.

EF4...WIND SPEEDS 166 TO 200 MPH.

EF5...WIND SPEEDS GREATER THAN 200 MPH.

For media inquiries: Contact nws.grandforks@noaa.gov



NATIONAL WEATHER SERVICE
OCEANIC AND ATMOSPHERIC ADMINISTRATION

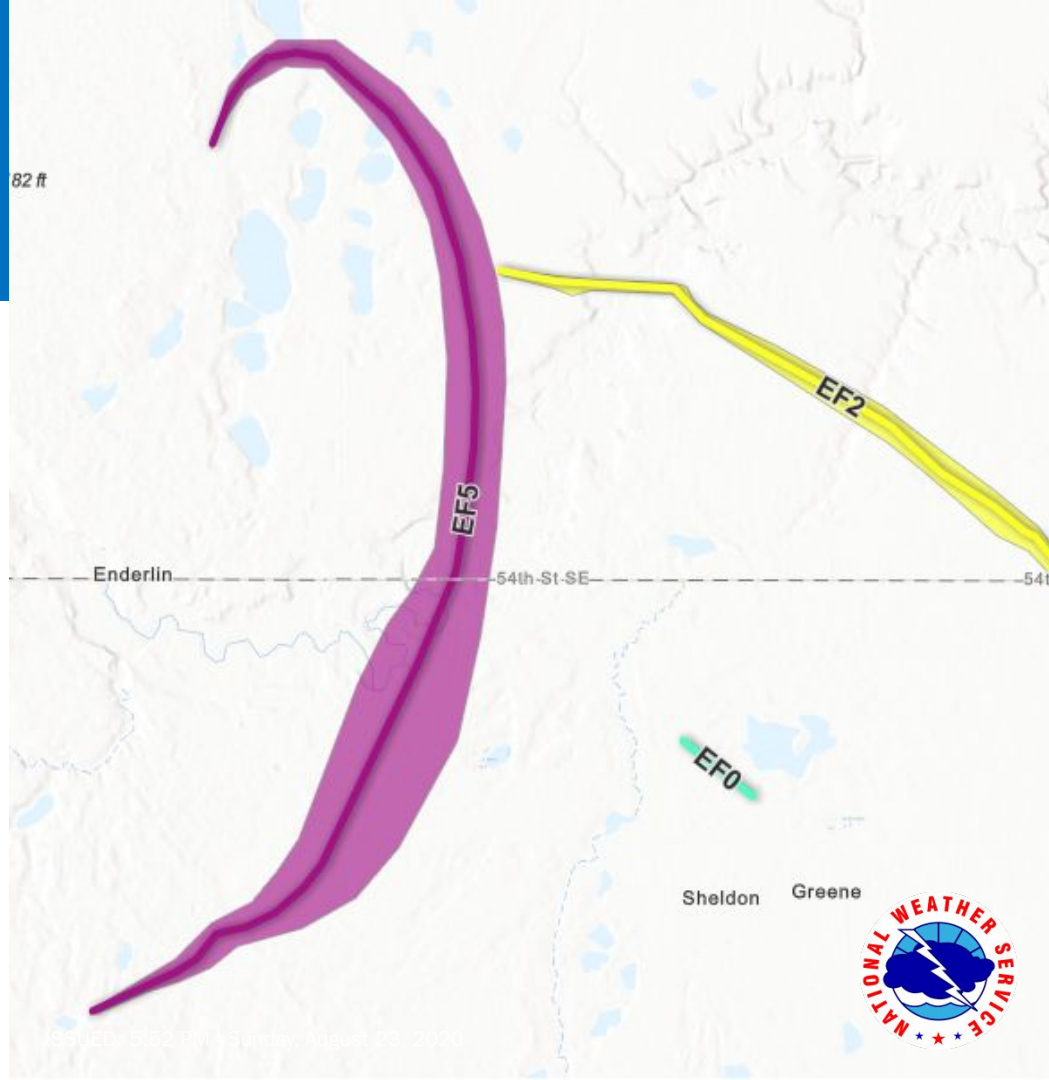


Tornado

Damage Survey Results

Enderlin #1 - Ransom/Cass Counties

Date	6/20/2025
Time (Local)	11:02 - 11:21 PM CDT
EF Rating	EF-5
Est. Peak Winds	Greater than 210 mph
Path Length	12.10 miles
Max Width	1.05 miles
Injuries/Deaths	0 Injuries/3 Deaths



Enderlin Tornado #1 - Photo Credit: Alex Resel



Alex Resel

Train Damage - Photo Credit: Brian Emfinger



Train Damage - Photo Credit: Brian Emfinger



Train Damage - Photo Credit: Aaron Rigsby



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Tree Damage - Near Maple River - Root Ball Displacement

Tree Damage - Near Maple River - Debarking/Sandpapering



Tree Damage - Near Maple River - Debarking/Sandpapering



Tree Damage - Near Maple River - Debarking/Sandpapering

