



Nashville Emergency Communications Center

Tornado and Derecho Data Analysis

Introduction

March 3, 2020: Tornado outbreak hits North Nashville shortly after midnight, resulting in 25 deaths, 309 injured, and more than \$1.6 Billion in damages.

<https://www.tennessean.com/pages/interactives/news/graphics/march-2020-tornado-path-nashville-cookeville-putnam-tennessee/>



Introduction

May 3, 2020: Tennessee hit by a derecho, causing major wind damage over hundreds of miles.

<https://www.weather.gov/ohx/20200503>





Goals of This Project

How much does the 911 call data align with the damage path in terms of time and location?

In which areas was there a large number of calls, and in which areas were there fewer than expected numbers of calls?

What did the timeline of calls look like? Was it a sustained event or mostly grouped close to the time of the disaster?



Data Files

- **911 Phone Calls:** Contain the time and approximate location of calls to 911
- **Computer Aided Dispatch:** Contain time and location where units were dispatched
- **NOAA Data:** Contains geojson files showing the path of the tornado, the estimated damage swaths, and the damage survey points for the March 3 tornado