Chicago/Romeoville County Warning Area Strong-Violent Tornadoes: 1880-2010

A Study in Trends, Climatology, and History

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Purpose

• Chicago Metropolitan Area strong-violent (F2/EF2-F5/EF5) tornado climatology has been established

• Area does not *only* cover Chicago Metro Area

• Focusing on such a small area could lead to misconceptions about region’s true vulnerability to strong-violent tornado occurrences

• Attempt to establish a strong-violent tornado climatology for the entire County Warning Area

• Search for useful trends in strong-violent tornado data
Methodology

• Search Grazulis’ *Significant Tornadoes: 1680-1991* and SeverePlot 3.0 from the Storm Prediction Center to catalog all strong-violent tornadoes in the Chicago/Romeoville County Warning Area since 1880
Chicago/Romeoville County Warning Area
Strong-Violent Tornadoes 1880-2010: The Raw Numbers

• There have been 202 F2/EF2-F5/EF5 tornadoes in the Chicago/Romeoville CWA between 1880-2010
  – 134 F2s/EF2s
  – 43 F3s/EF3s
  – 24 F4s/EF4s
  – 1 F5 (Plainfield, 8/28/1990)
• These F2/EF2-F5/EF5 tornadoes were responsible for 289 fatalities and 3,751 injuries
• Average path length of 13.0 miles
• Average path width of 197 yards
Total Chicago/Romeoville County Warning Area
Strong-Violent Tornadoes by Hour 1880-2010
Chicago/Romeoville County Warning Area
Strong-Violent Tornadoes by Month 1880-2010

Significant Tornadoes

Month

Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec
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<th>County</th>
<th>Strong-Violent Tornadoes per 100 square miles</th>
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Strong-Violent Tornadoes per 100 sq. miles per county 1880-2010

Key (S/V Tor per 100 sq. mi.)
0-0.99
1-1.99
2-2.99
3.00+

0-0.99
1-1.99
2-2.99
3.00+
Number of Events with Given Number of Strong-Violent Tornadoes per Outbreak for the Chicago/Romeoville County Warning Area 1880-2010
Chicago/Romeoville County Warning Area Fatalities from Strong-Violent Tornadoes by F/EF Rating (1880-2010)
Top Ten Outbreaks (by Number of Strong-Violent Tornadoes) since 1880

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<tr>
<th>Date</th>
<th>EF2 Tornadoes</th>
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Composite Maps for Top 5 Outbreaks since 1948
Top Ten Outbreaks (by Number of Strong-Violent Tornadoes) since 1880

• Our top-ten outbreaks consist of all outbreaks with at least 4 strong-violent tornadoes
• April 21st, 1912, had the highest number of strong-violent tornadoes (7)
• Of the 10 outbreaks, 2 were in March, 2 in April, 2 in May, 2 in June, 1 in July, and 1 in November
• Outbreaks usually caused by strong shortwave disturbance with surface low positioned to the west-northwest
Top Ten Outbreaks (by Number of Strong-Violent Tornadoes) since 1880

• There appears to be a pattern in major outbreak occurrences
  – The first five outbreaks occurred in 1896, 1898, 1903, 1912, and 1920
  – Then, 45 years passed until the next outbreak in 1965
  – The 1965 outbreak was quickly followed by the 1967 and 1976 outbreaks
  – Finally, an additional 32 years passed until the 2008 and 2010 outbreaks

• Is there a significance to this pattern?
Fujita et. al., 1975

• “Long-Term Fluctuation of Tornado Activities”
• Established a roughly 45-year cycle of tornado fatality maximum centered around Piggott, Arkansas
• Maxima for the Chicago/Romeoville County Warning Area included 1919-1925 and 1964-1970, with other maxima nearby (1911-1918 in Iowa and 1971-1974 in Ohio)
• Next projected maximum (according to Chicago Tribune article dated April 16th, 1975) for the Chicago/Romeoville County Warning Area was to arrive around 2009
• Problem: Fujita et. al. were never able to establish a cause for the traveling maximum
A Closer Look

• Does the data post-1975 continue to suggest the existence of a rotating tornado fatality maximum?
• Does the Fujita cycle apply to the rest of the Chicago/Romeoville strong-violent tornado dataset?
• If it does apply, what could be a potential driving factor behind the cycle?
Strong-Violent Tornadoes for the Chicago/Romeoville County Warning Area by Fujita Clusters, 1881-2010
Intense (F3/EF3-F5/EF5) Tornadoes in the Chicago/Romeoville County Warning Area by Fujita Clusters 1881-2010
Violent (F4/EF4-F5/EF5) Tornadoes in the Chicago/Romeoville County Warning Area by Fujita Clusters 1881-2010

The graph shows the number of violent tornadoes (F4/EF4-F5/EF5) in the Chicago/Romeoville County Warning Area from 1881 to 2010, categorized by Fujita Clusters. The y-axis represents the number of tornadoes, and the x-axis represents the Fujita Cluster years. The data is not presented in a tabular format but is visualized in a bar chart.
Local Data Trends

• The F2-F5, F3-F5, and F4-F5 data appears to support a *local pattern* in strong-violent tornado activity
• Dataset too small to establish a true pattern
• Same issue holds true for national data
Wintertime Tornadoes

- 8 wintertime (Dec-Feb) tornadoes have struck the Chicago/Romeoville County Warning Area since 1950
  - January 26th, 1950 – F2
  - December 6th, 1951 (2) – F1, F3
  - December 3rd, 1955 – F2
  - December 8th, 1966 – F2
  - December 4th, 1973 – F1
  - February 16th, 2006 – F1
  - January 7th, 2008 – EF3
Composite Maps for All CWA Winter Tornado Cases
# Violent Tornadoes by County

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<th>County</th>
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Composite Maps for Violent Tornado Events from 1948-2010
Return Frequency

- F2/EF2: once per year
- F3/EF3: once every three years
- F4/EF4: once every five-and-a-half years
- Overall: once every eight months/three every two years
Summary/Concluding Thoughts

• Strong-violent tornadoes are typically late afternoon-early evening events

• Four top months are April, May, June, and August

• Area across Grundy, Will, Kankakee, Lake IN, Newton, Benton, and Porter Counties has a higher rate of significant tornado occurrences that cannot completely be attributed to population
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*All Data from 2010 is Preliminary