



# Scattered Severe Thunderstorms

March 13, 2024  
3:26 AM

Greatest Chance During the Evening Across Central & Northeast MO



## Key Messages

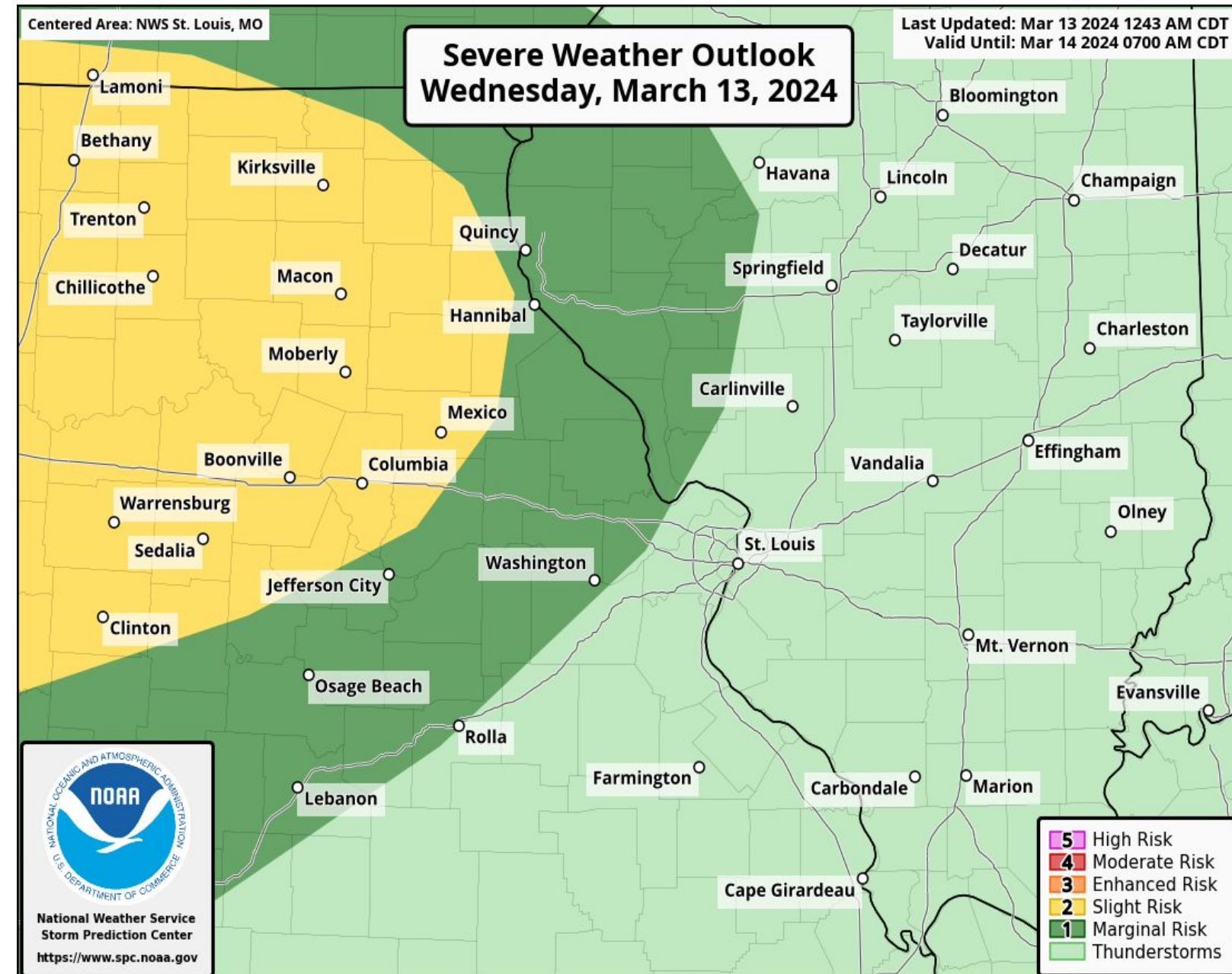
Thunderstorms will increase late this afternoon and evening as a front moves north across the area.

- **A few thunderstorms could become severe**, with the greatest chance from **5 –11 pm this evening in central and northeast MO**.
- The **main hazard with severe thunderstorms will be large hail** with damaging wind gusts also possible.
- The risk for severe weather will exist across the entire area on Thursday afternoon and evening(see last slide).

NEW

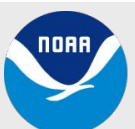
## What Has Changed

- Slight risk expanded across the entire area on Thursday (see slide 5).



## Next Scheduled Briefing

- By 5:00 PM Wednesday, March 13th.



National Oceanic and  
Atmospheric Administration  
U.S. Department of Commerce

National Weather Service  
St. Louis, MO



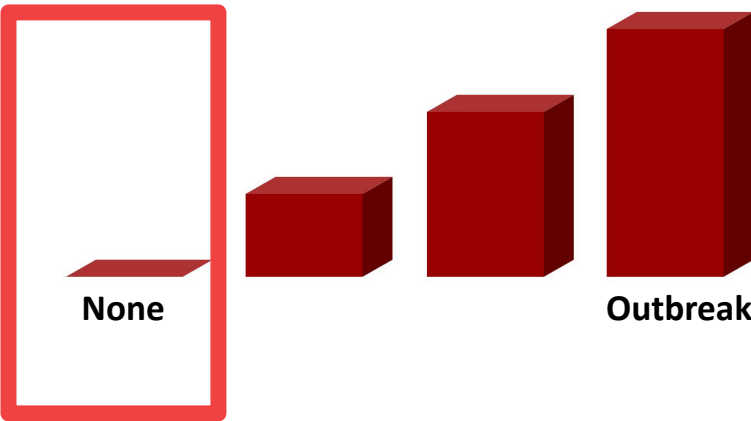
# Severe Threats Matrix

March 13, 2024  
3:26 AM

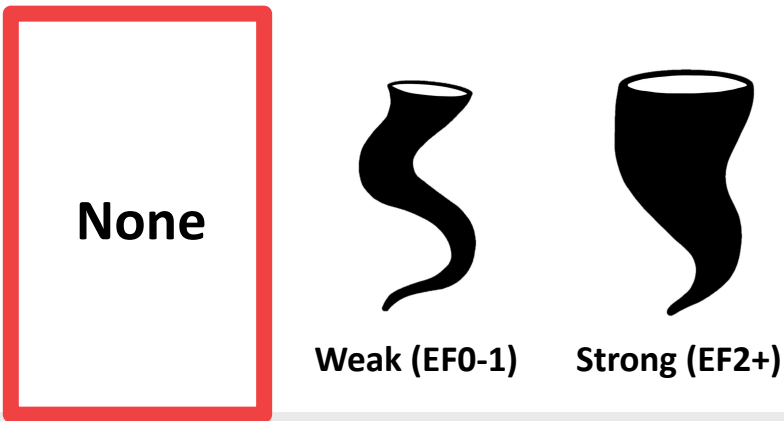
This Evening

## Tornado

Number of Tornadoes Expected

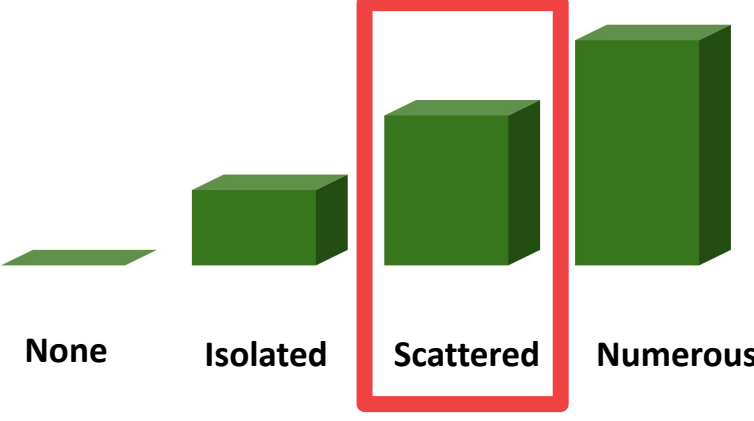


Maximum Expected Strength

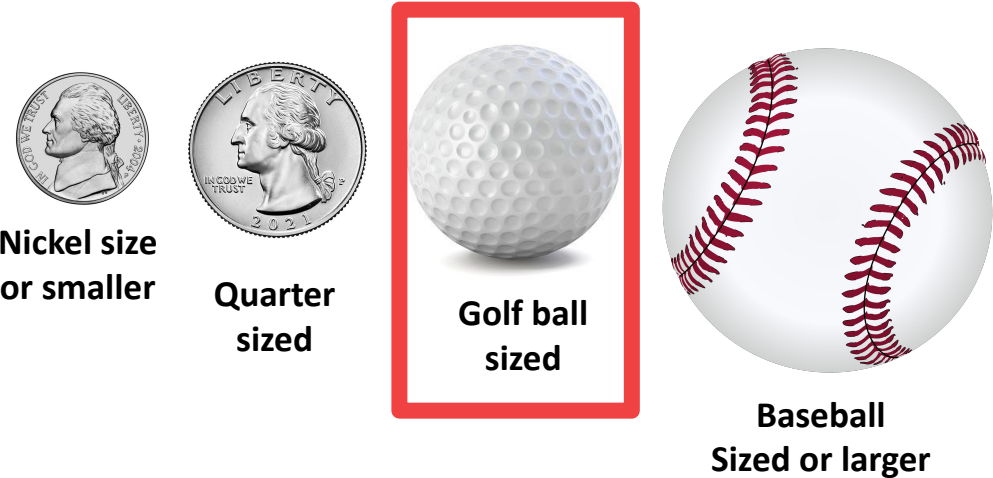


## Hail

Coverage of Storms with Damaging Hail

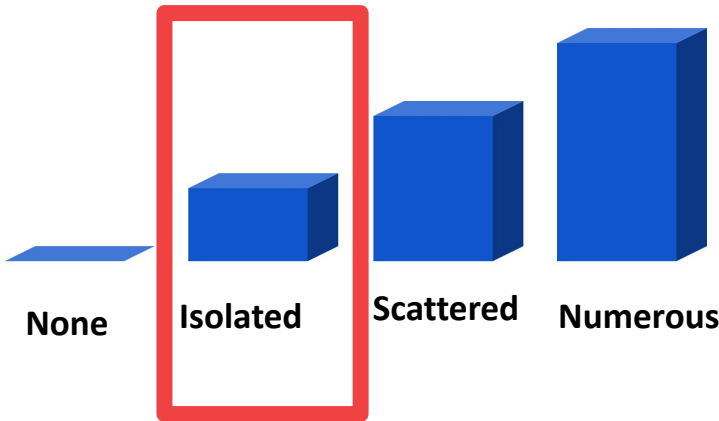


Maximum Expected Hail Size

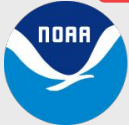
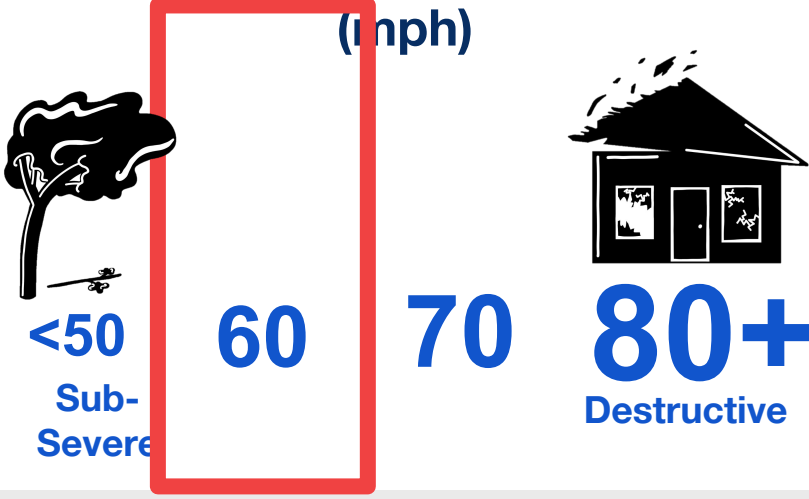


## Damaging Wind

Coverage of Storms with Damaging Wind



Maximum Expected Wind Gust (mph)





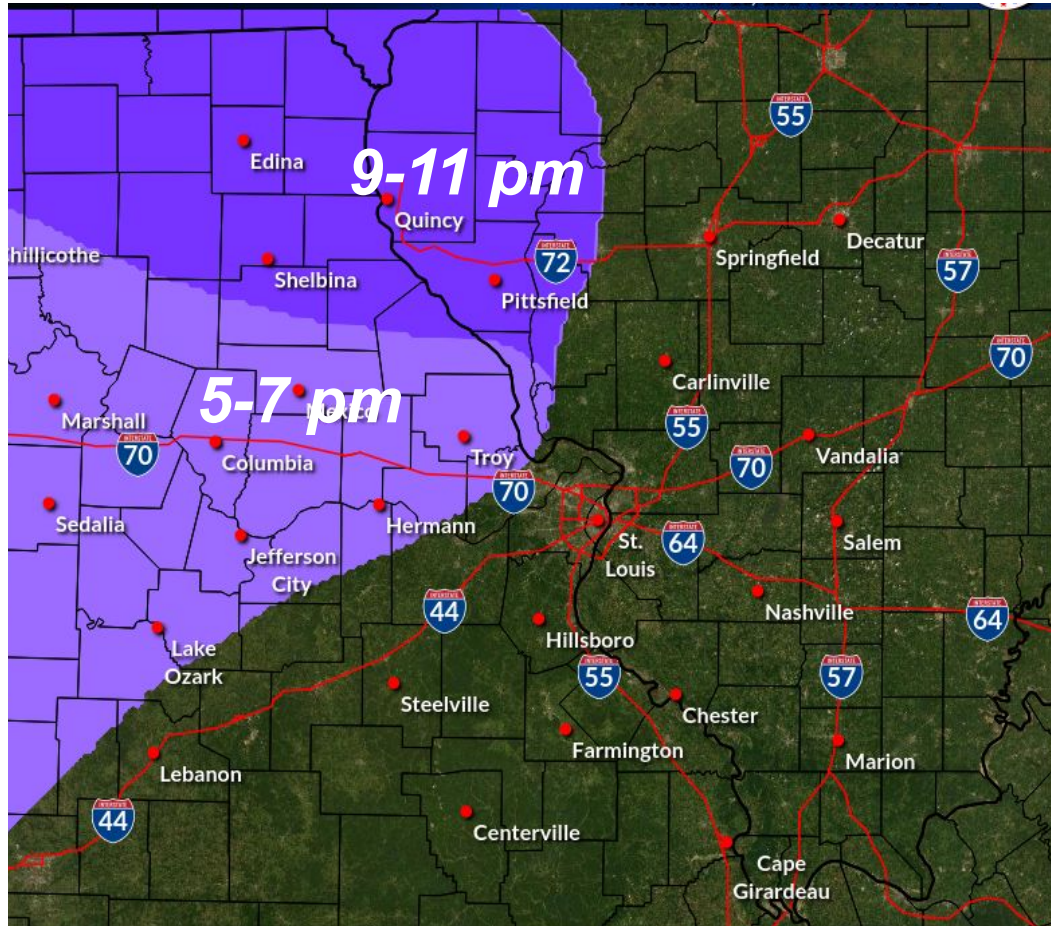


# Timing Information

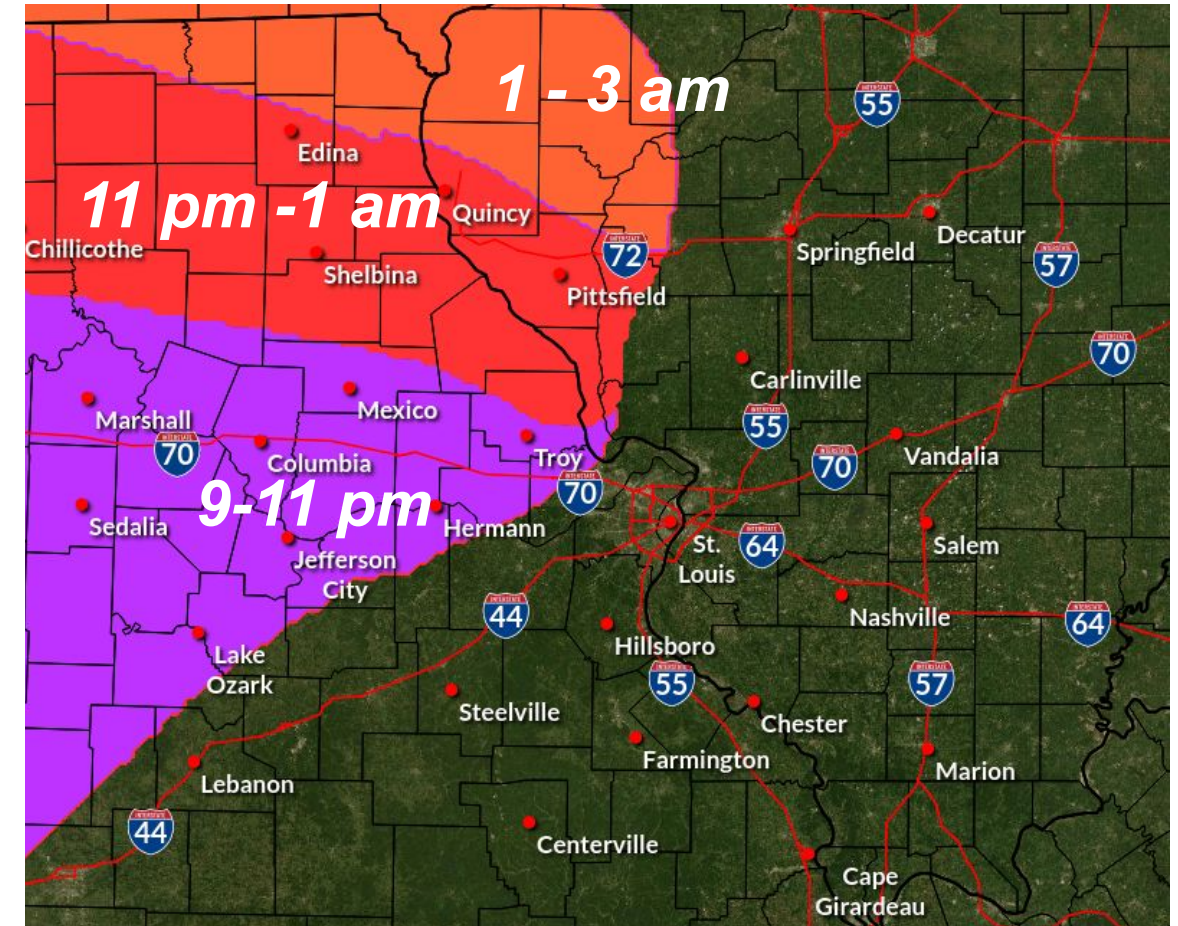
March 13, 2024  
3:26 AM

This Evening

## Onset Time



## End Time



**Timing Information:** Scattered thunderstorms are expected to develop between 5-7PM across parts of central and northeast Missouri. These storms should gradually lift north through the evening hours before departing northeast Missouri and west-central Illinois around midnight.





This Evening

## What We Are Confident Will Happen?

- **Thunderstorms will develop this evening -** Confidence remains high that thunderstorms will develop during along and north of I-70.
- **Thunderstorm threats -** Confidence is high that where thunderstorms become severe, large hail will be the main hazard. Damaging winds will also be possible.

## What is Still Uncertain?

- **Severe thunderstorm coverage -** Although thunderstorms will become more numerous late in the evening, it is uncertain how many of these thunderstorms will be severe.
- **Severe thunderstorm duration -** While there is higher confidence in thunderstorms developing during the evening hours, how quickly they exit parts of northeast Missouri and west-central Illinois remains a question mark. Additional thunderstorms may move back northern Missouri and west central Illinois after midnight. It is unclear at this point whether these storms will be severe or not.

## -Confidence-

### Thunderstorm Development



### Severe Thunderstorm Coverage



### Severe Thunderstorm Duration







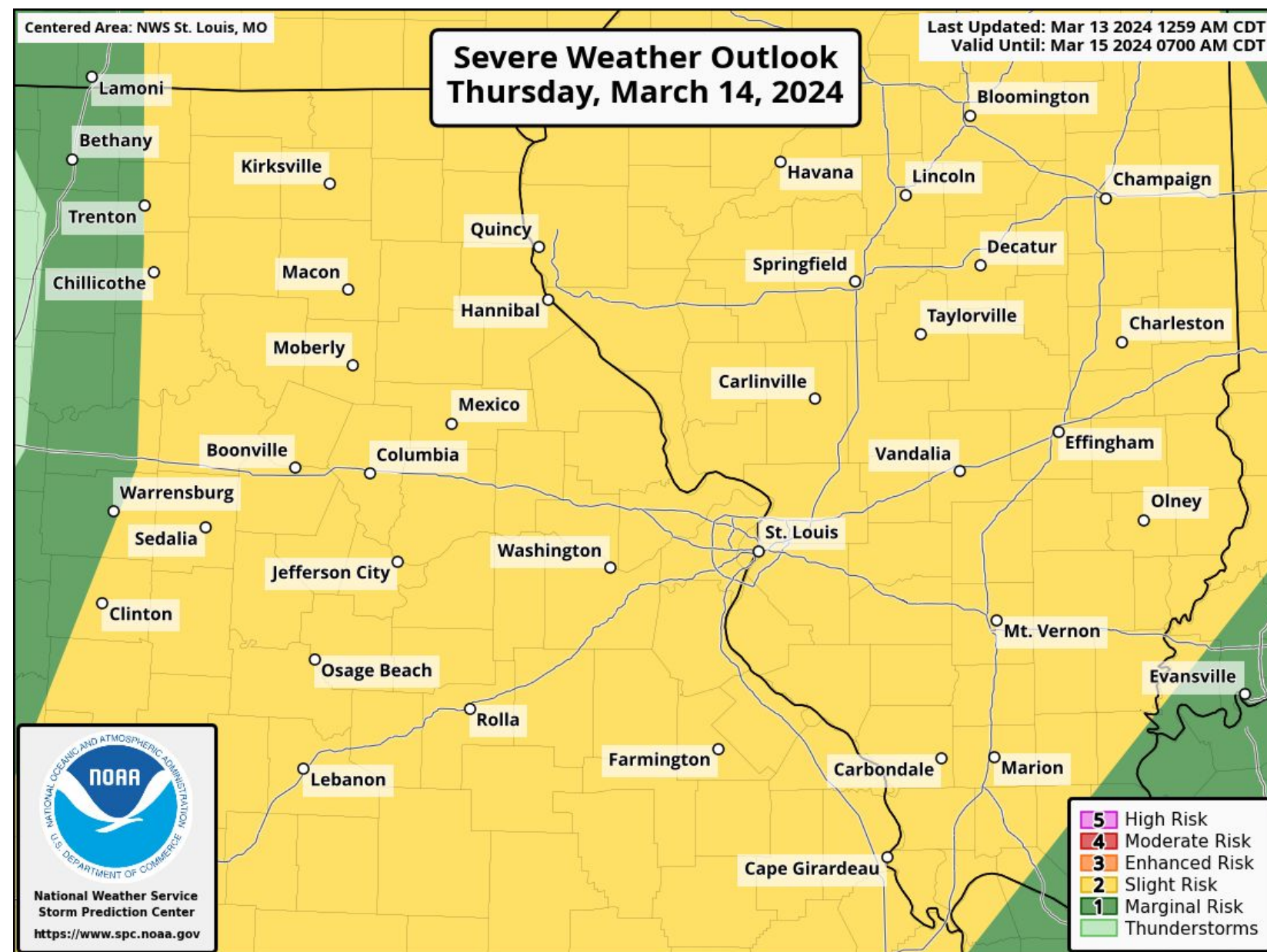
# Scattered Severe Thunderstorms Thursday

March 13, 2024  
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Greatest Chance During Afternoon Through Late Evening

## Overview

- Thunderstorms are expected to develop along a cold front as it moves southeast across the area **Thursday afternoon into Thursday night**.
- Large hail, damaging winds, and isolated tornadoes** will be possible with the severe storms. **Hail larger than golf balls** will be possible during the afternoon and early evening over **parts of central and northeast Missouri and west central Illinois** during the afternoon and early evening.
- There is **uncertainty in the exact timing of severe thunderstorms** on Thursday due to uncertainty in the timing of the cold front and location of outflow boundaries from previous thunderstorms.





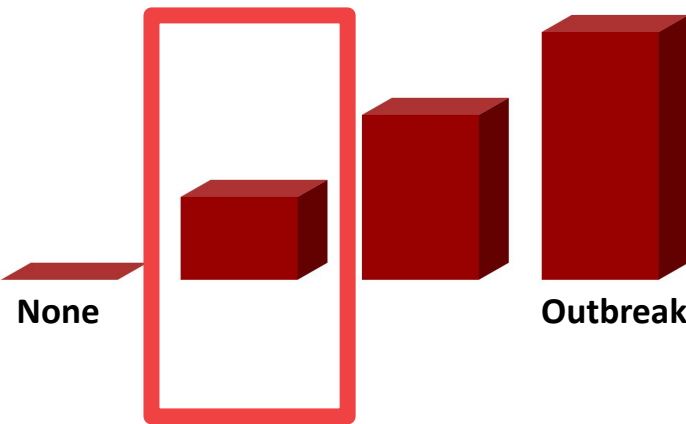
# Severe Threats Matrix

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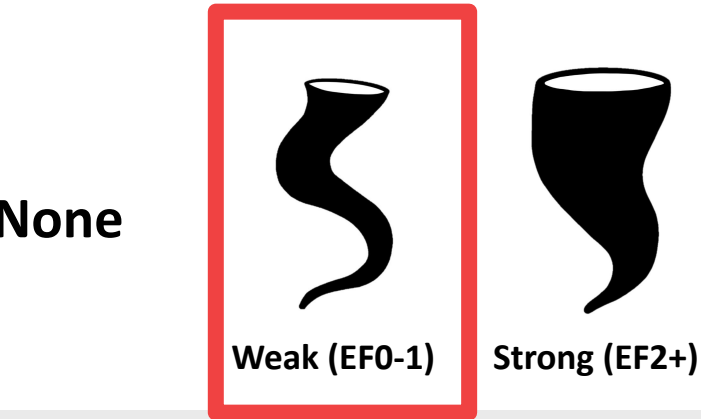
Thursday Evening/Night

## Tornado

Number of Tornadoes Expected

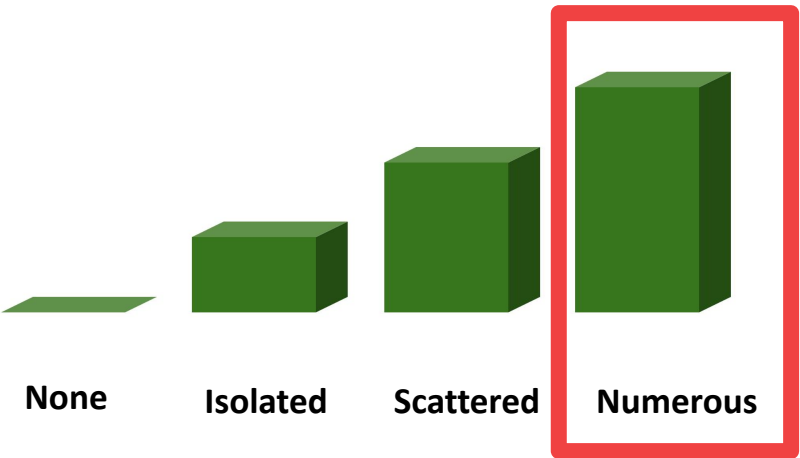


Maximum Expected Strength

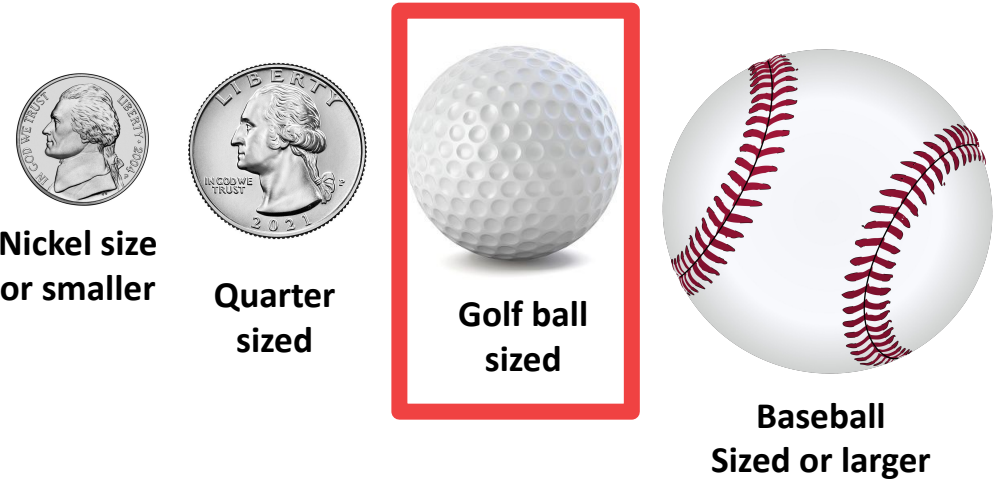


## Hail

Coverage of Storms with Damaging Hail

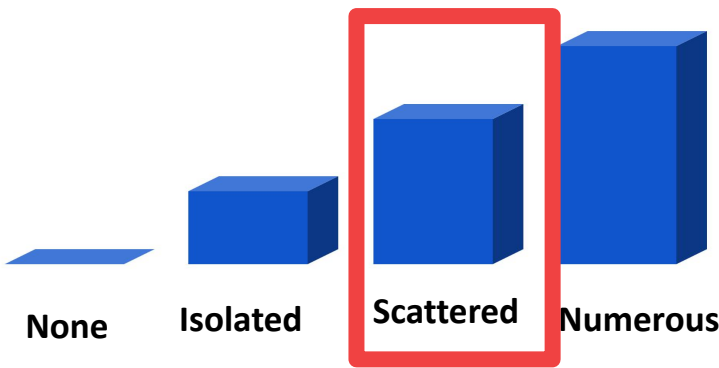


Maximum Expected Hail Size



## Damaging Wind

Coverage of Storms with Damaging Wind



Maximum Expected Wind Gust (mph)

