Main Points:
✓ Storms will continue to develop this afternoon and evening
✓ The primary weather hazards will be t-storm wind gusts greater than 60 MPH, hail to the size of golf balls, and a brief tornado or two
✓ Widespread heavy rainfall will likely lead to localized flash flooding
✓ A strong punch of cold air arrives Friday and Friday night; frost possible

Important Forecast Changes
✓ Severe Thunderstorm Watch in effect until 8 PM CDT.
Main Points:
- **Flood Watch** in effect until midnight tonight
- Widespread 1-3” of rainfall expected through tonight across the region
- Localized amounts up to 5” will be possible, leading to flash flooding
- Low lying areas, low-water crossings, creeks, and rivers could flood
- Never drive through a flooded roadway! Turn around don’t drown

Forecast Amounts Can Be Found [Here](#)
First Frost of the Season Possible Friday Night

A powerhouse autumn storm will push a strong cold front through the region, bringing in much colder temperatures for the weekend.

For Friday Night:
- Lows in the mid 30s
- Wind Chill Values in the mid 20s
### Tonight: Severe Weather & Flooding

#### Key Points

**Hazards:**
- Thunderstorm wind gusts exceeding 60 MPH (Thursday P.M.)
- Hail to the size of golf balls (Thursday P.M.)
- Localized heavy rain/flash flooding (Thursday all day)
- Frequent cloud to ground lightning (Thursday all day)
- Isolated tornado(s) possible (Thursday P.M.)
- Frost (Friday night into early Saturday morning)

**Areas Impacted/Approximate (Ballpark) Timing:**
- The strongest storms will likely occur west of US HWY 65 between noon and 10 P.M. CDT
- The most likely area for flash flooding will also be west of US HWY 65 between 10 AM and midnight
- All areas will be in danger of its first frost of the season Friday night into Saturday morning

**Storm Mode and Impacts:**
- Severe wind and hail may cause damage to property and threaten lives
- Torrential rain across southeast KS and western MO may cause localized flash flooding and ponding of roadways, which may cause hazardous driving conditions
- Frost on Friday night could endanger the growing season

**Confidence/Certainty/Considerations/Actions:**
- Confidence is medium/high for severe weather and flooding, but some question remains in how far east storms spread tonight. Monitor forecasts through our website [https://www.weather.gov/sgf/](https://www.weather.gov/sgf/) or [NWS Chat](https://www.weather.gov/sgf) (approved account required).
# Situation Report
National Weather Service
Springfield, Missouri
Thursday, October 10, 2019 12:50 PM

## Understanding Severe Thunderstorm Risk Categories

<table>
<thead>
<tr>
<th>THUNDERSTORMS (no label)</th>
<th>1 - MARGINAL (MRGL)</th>
<th>2 - SLIGHT (SLGT)</th>
<th>3 - ENHANCED (ENH)</th>
<th>4 - MODERATE (MDT)</th>
<th>5 - HIGH (HIGH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No severe* thunderstorms expected</td>
<td>Isolated severe thunderstorms possible</td>
<td>Scattered severe storms possible</td>
<td>Numerous severe storms possible</td>
<td>Widespread severe storms likely</td>
<td>Widespread severe storms expected</td>
</tr>
<tr>
<td>Lightning/flooding threats exist with all thunderstorms</td>
<td>Limited in duration and/or coverage and/or intensity</td>
<td>Short-lived and/or not widespread, isolated intense storms possible</td>
<td>More persistent and/or widespread, a few intense</td>
<td>Long-lived, widespread and intense</td>
<td>Long-lived, very widespread and particularly intense</td>
</tr>
</tbody>
</table>

- * Winds to 40 mph
- * Small hail
- * Winds 40-60 mph
- * Hail up to 1""
- * Low tornado risk
- * One or two tornadoes
- * Reports of strong winds/wind damage
- * Hail ~1", isolated 2"
- * A few tornadoes
- * Several reports of wind damage
- * Damaging hail, 1 - 2"
- * Strong tornadoes
- * Widespread wind damage
- * Destructive hail, 2" +
- * Tornado outbreak
- * Derecho

*NWS defines a severe thunderstorm as measured wind gusts to at least 58 mph, and/or hail to at least one inch in diameter, and/or a tornado. All thunderstorm categories imply lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles of your location.

Links:
- Storm Prediction Center (SPC): [http://www.spc.noaa.gov/](http://www.spc.noaa.gov/)
- Hazardous Weather Outlook: [https://www.weather.gov/sgf/ehwo](https://www.weather.gov/sgf/ehwo)
- NWS Springfield Webpage: [https://www.weather.gov/sgf/](https://www.weather.gov/sgf/)
- Weather Prediction Center (WPC): [https://www.wpc.ncep.noaa.gov/](https://www.wpc.ncep.noaa.gov/)

@NWSSpringfield
US National Weather Service Springfield