



# Hazardous Weather Briefing

5 AM CDT, May 19, 2013



**National Weather Service**

**Springfield, MO**

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Good morning everyone. This is Jason Schaumann from the National Weather Service in Springfield, Missouri with the latest hazardous weather briefing for severe weather and heavy rainfall potential from late this afternoon through Tuesday. This briefing was produced around 5 AM Sunday morning. This briefing should not be used beyond 7 PM Sunday evening, or if local weather conditions become unrepresentative.




## NWS Springfield Forecast Highlights

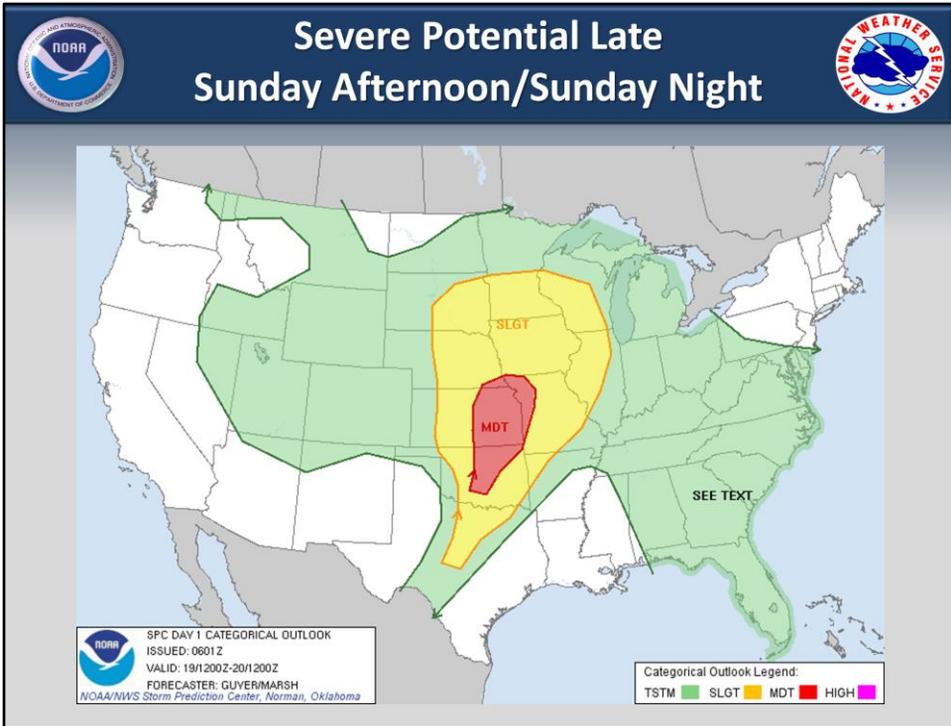
What	Where	Timing	Impacts
Strong to Severe Thunderstorms	Extreme southeastern Kansas and the Missouri Ozarks	Late this afternoon through Tuesday	<ul style="list-style-type: none"> <li>• Large Hail</li> <li>• Damaging Winds</li> <li>• Tornadoes</li> <li>• Frequent Lightning</li> </ul>
Heavy Rainfall	Extreme southeastern Kansas and the Missouri Ozarks	Tonight through Tuesday	Potential for flooding

**Enjoy the rest of your weekend but  
please stay alert for rapidly changing conditions!**

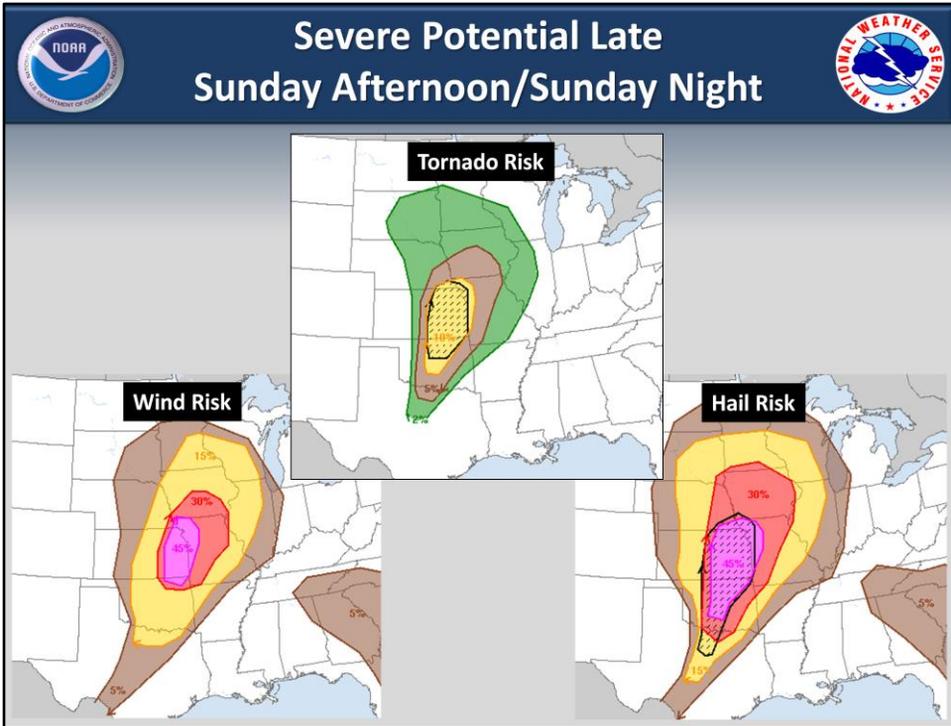
Multiple rounds of severe thunderstorms and heavy rainfall are expected over the next three days. The first round will come from late this afternoon into tonight. Additional activity will then occur from Monday through Tuesday.

The potential does exist for multiple severe weather hazards including large hail, damaging winds, and tornadoes. Multiple rounds of heavy rainfall are also expected which will lead to a risk for flooding.

One final note for this particular slide, it has been quite awhile since the Missouri Ozarks and southeastern Kansas have received 2 to 3 days in a row of severe weather and heavy rainfall. Weather conditions and expectations will likely change rapidly early this week. Thus, it is important to closely monitor weather conditions and stay tuned to local media outlets, NOAA Weather Radio, and your National Weather Service for the latest weather information.



The Storm Prediction Center has placed all of extreme southeastern Kansas and portions of western Missouri under a Moderate Risk for severe thunderstorms for today and tonight. A Slight Risk for severe thunderstorms extends east across most of the central and eastern Missouri Ozarks.

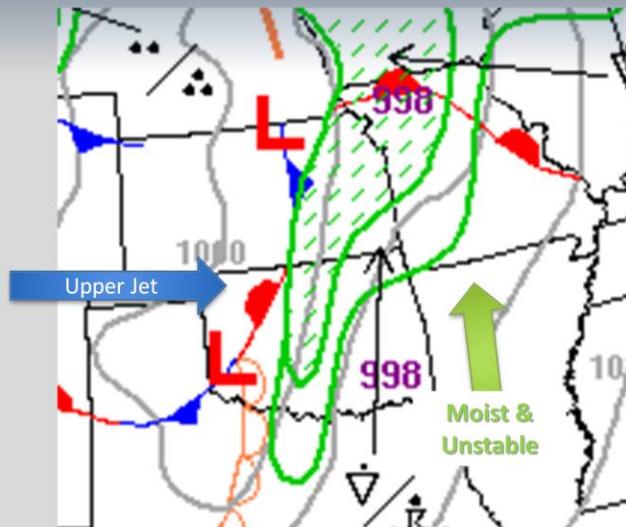


These graphics from the Storm Prediction Center depict that the greatest threats for tornadoes, damaging straight-line winds, and large hail are located from central and eastern Oklahoma, north and east into eastern Kansas and western Missouri.

The black hatching in the tornado risk graphic indicates a limited potential for strong tornadoes across eastern Kansas and northeastern Oklahoma. The hatching in the hail risk graphic indicates the potential for hail 2" in diameter or larger.



## Weather Map Early Sunday Evening



By early this evening, a cold front is expected to extend from eastern Kansas, south and west to surface low pressure across southwestern Oklahoma. A dry line will trail the low into northern Texas. A moist and unstable airmass will be in place across the region as southerly winds increase and draw continued moisture off of the Gulf of Mexico.

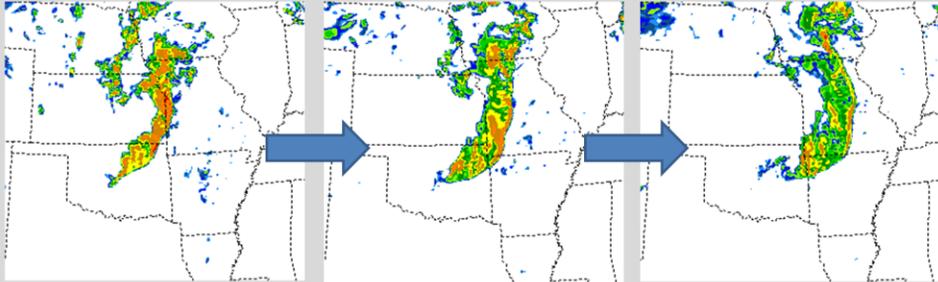
Supercell thunderstorms are expected to develop from central and eastern Kansas down into central and eastern Oklahoma late Sunday afternoon as strong upper level energy overspreads the cold front and dry line. These storms may shift into extreme southeastern Kansas as early as 5 or 6 PM, with the most likely time of arrival between 6 and 9 PM across extreme southeastern Kansas and far western Missouri. These storms will contain a threat for hail up to the size of tennis balls, damaging wind gusts over 60 mph, and tornadoes.



Late Sunday Evening/Overnight



## Storms May Congeal into a Squall Line

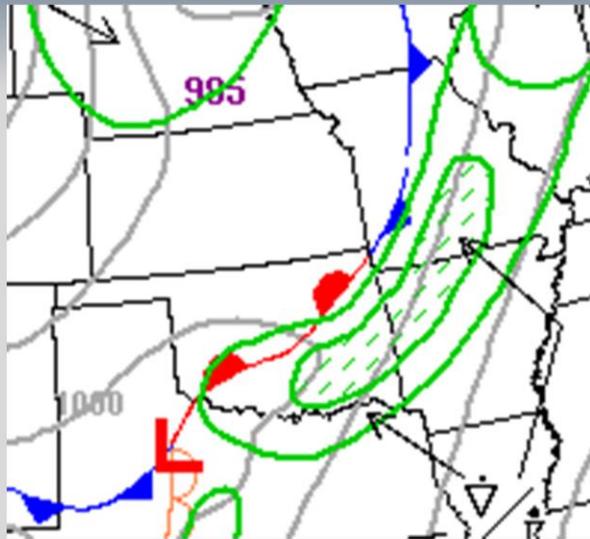


- **Increasing damaging wind threat**
- **Isolated tornado threat**

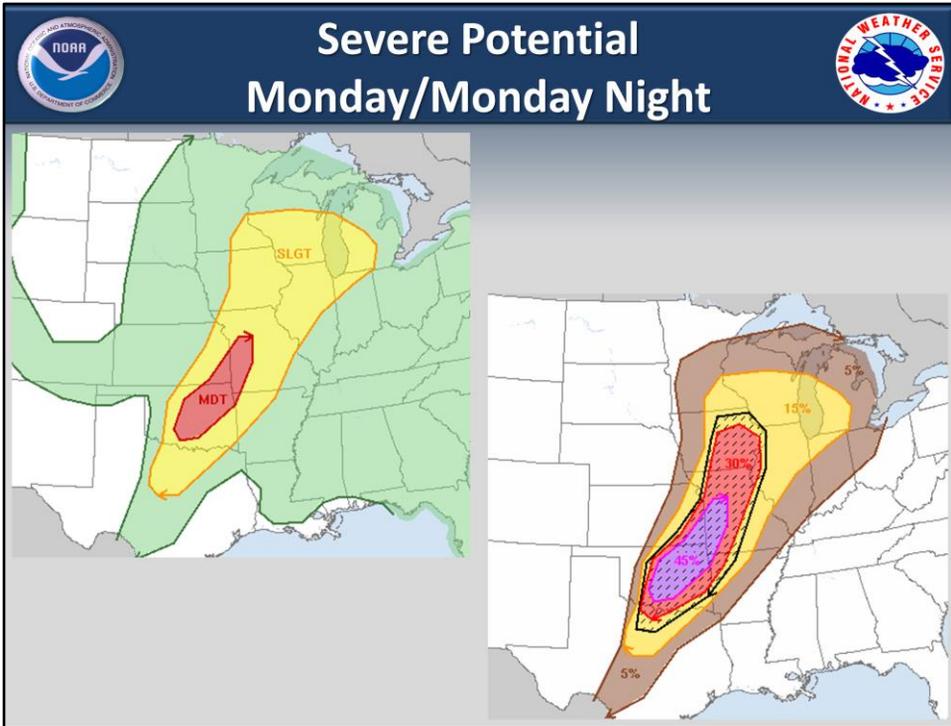
The latest forecast information indicates that thunderstorms across the Plains may then congeal into a line of severe thunderstorms from later this evening into the overnight hours. If this occurs, the threat for damaging straight-line winds up to 70 mph will increase. Additionally, there would continue to be a threat for isolated tornadoes embedded within this line of storms.



## Weather Map Early Monday Evening

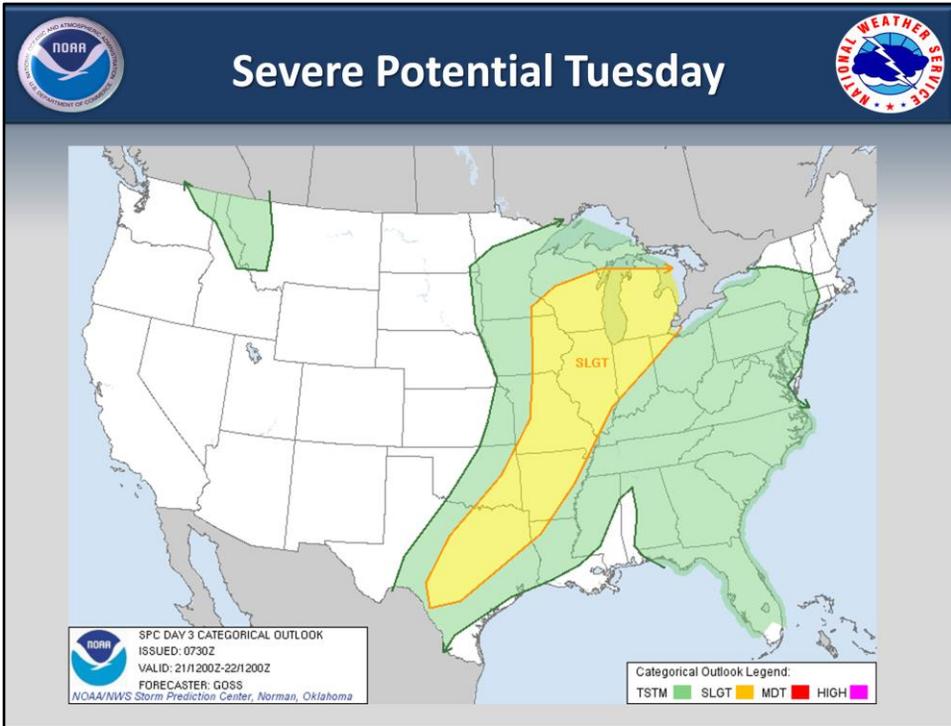


That cold front will only make slow progress to the east from late tonight into Monday. The threat for severe storms will therefore continue through Monday night.



The Storm Prediction Center has placed extreme southeastern Kansas and western Missouri under a Moderate Risk for severe thunderstorms for Monday and Monday night. A Slight Risk for severe thunderstorms encompasses the remainder of the Missouri Ozarks. You can also see that the Storm Prediction Center has black hatching over all of western Missouri and extreme southeastern Kansas. The black hatching indicates a limited potential for a significant severe weather event.

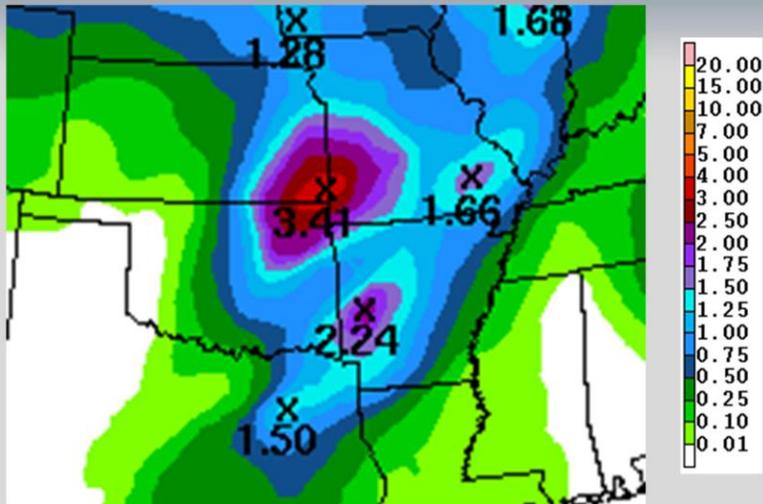
The expected timing of severe weather Monday remains somewhat unclear as thunderstorms from tonight may impact the amount of instability and overall timing of additional thunderstorms throughout the day on Monday. At this time, we feel that the greatest threat for severe storms will start Monday afternoon...and may very well persist for much of Monday night. Large hail, damaging winds, tornadoes, and torrential rainfall all appear possible.



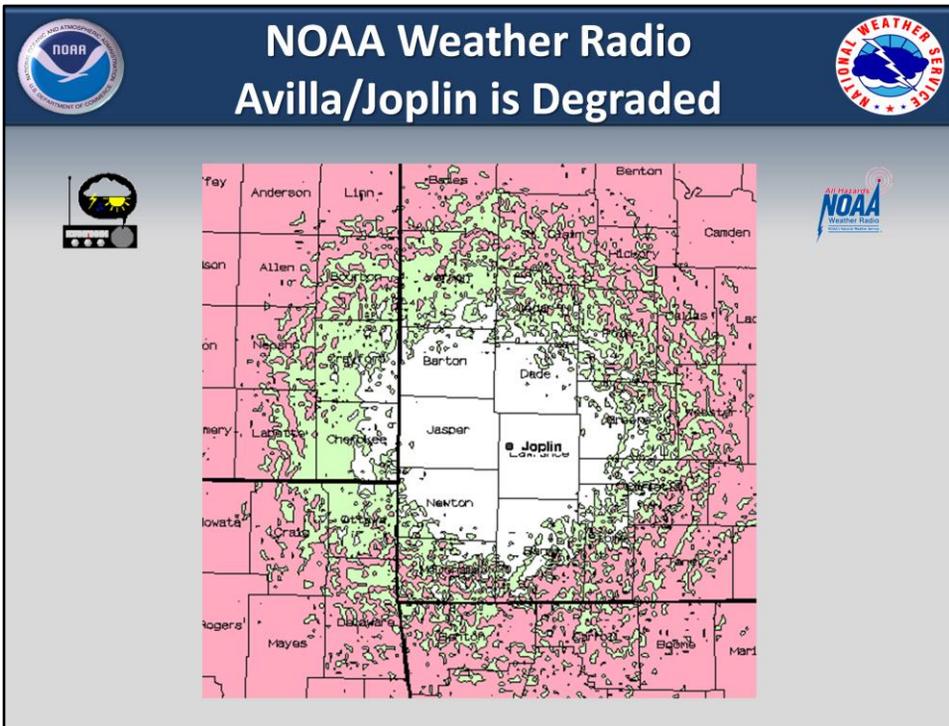
That cold front will remain draped across the Missouri Ozarks as we head into Tuesday. The Storm Prediction Center has placed much of the Missouri Ozarks under a Slight Risk for severe thunderstorms for Tuesday. Overall confidence in the severe weather threat is lower on Tuesday as thunderstorms from both Sunday and Monday will impact the atmosphere in ways that are yet to be determined. Thus, the severe weather potential for Tuesday will be fine-tuned as details become clearer.



## Heavy Rainfall Potential



The multiple rounds of thunderstorms could lead to heavy rainfall and the potential for flooding. This graphic depicts forecasted rainfall amounts from the Weather Prediction Center. At this time it appears storm total rainfall amounts of one and a half to three and a half inches will be possible. If these amounts materialize, flooding of creeks, streams, and low water crossings would be likely. This would also include rises and potential flooding on main stem rivers. If confidence continues to increase in these heavy rainfall amounts, a Flash Flood Watch will be considered for portions of the area.



The slide features a dark blue header with the NOAA logo on the left and the National Weather Service logo on the right. The title "NOAA Weather Radio Avilla/Joplin is Degraded" is centered in white text. Below the header is a map of Missouri counties, with a central area around Joplin highlighted in green and yellow, indicating degraded service. To the left of the map is a small icon of a weather radio, and to the right is the "All Hazards NOAA Weather Radio" logo. The map labels include counties such as Anderson, Linn, Barton, Camden, Jackson, Lawrence, Cherokee, Jasper, Newton, and others.

One final note we would like to pass along is that the Avilla/Joplin NOAA Weather Radio transmitter remains degraded. Although National Weather Service technicians are working around the clock to resolve this issue, there is the potential that this degradation in service may last through this active weather period. We have posted a web story on the front page of our web site containing the latest information on the Joplin transmitter, including alternative transmitters which Joplin NOAA Weather Radio users can program into their radios. We apologize for this inconvenience.



## Decision Support Briefing Resources



**NWS Springfield:** [www.weather.gov/sgf](http://www.weather.gov/sgf)

For the latest info on the Joplin NOAA Weather Radio issue, click on the news link at the top of our web page!

**Enhanced Hazardous Weather Outlook:**

<http://www.crh.noaa.gov/sgf/?n=hwo>

**Storm Prediction Center:** [www.spc.noaa.gov](http://www.spc.noaa.gov)

Here are several resources to check back to often to for forecast updates as this event unfolds. Additional updates may be issued via Situation Reports, which, if produced, will be emailed to core partners.



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5:00 AM, May 19, 2013



**For questions and additional information:**



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This concludes the hazardous weather briefing from NWS Springfield. Please be sure to check back often to [weather.gov/springfield](http://weather.gov/springfield), local media, and NOAA weather radio for the latest forecast outlooks, watches, warnings, and advisories.