



Unsettled Weather this Weekend

April 16, 2025

4:47 AM

Potential for Severe Weather & Heavy Rainfall and Flash Flooding

Key Messages

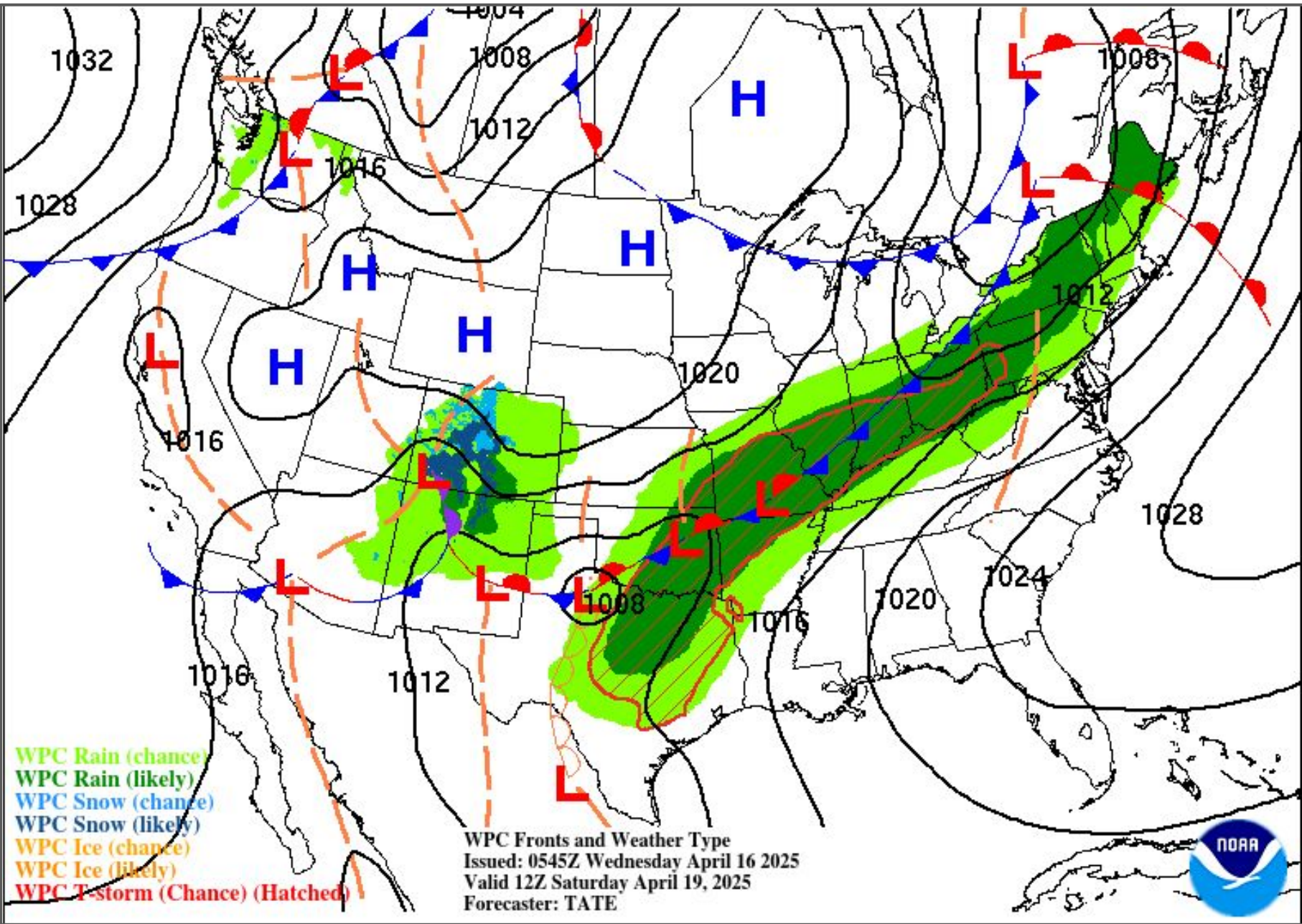
- Increasing confidence in the potential for strong to severe thunderstorms Friday through Sunday. Remaining uncertainty in exact details of timing, locations, and hazard types.
- Additional potential for heavy rainfall and flash flooding through the weekend. Remaining uncertainty in exact details of heaviest rainfall locations and amounts.

NEW Important Updates

- Refinements to severe thunderstorm and excessive rainfall outlooks.

Next Scheduled Briefing

- Wednesday afternoon



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

National Weather Service
Springfield, MO




Severe Weather Outlook Friday

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Overview


The atmosphere will be conducive for scattered strong to severe thunderstorms Friday evening and Friday night.


Actions

 Be weather aware and ready to act. Have multiple ways to receive warning information!

Severe Threats

 **Hail**

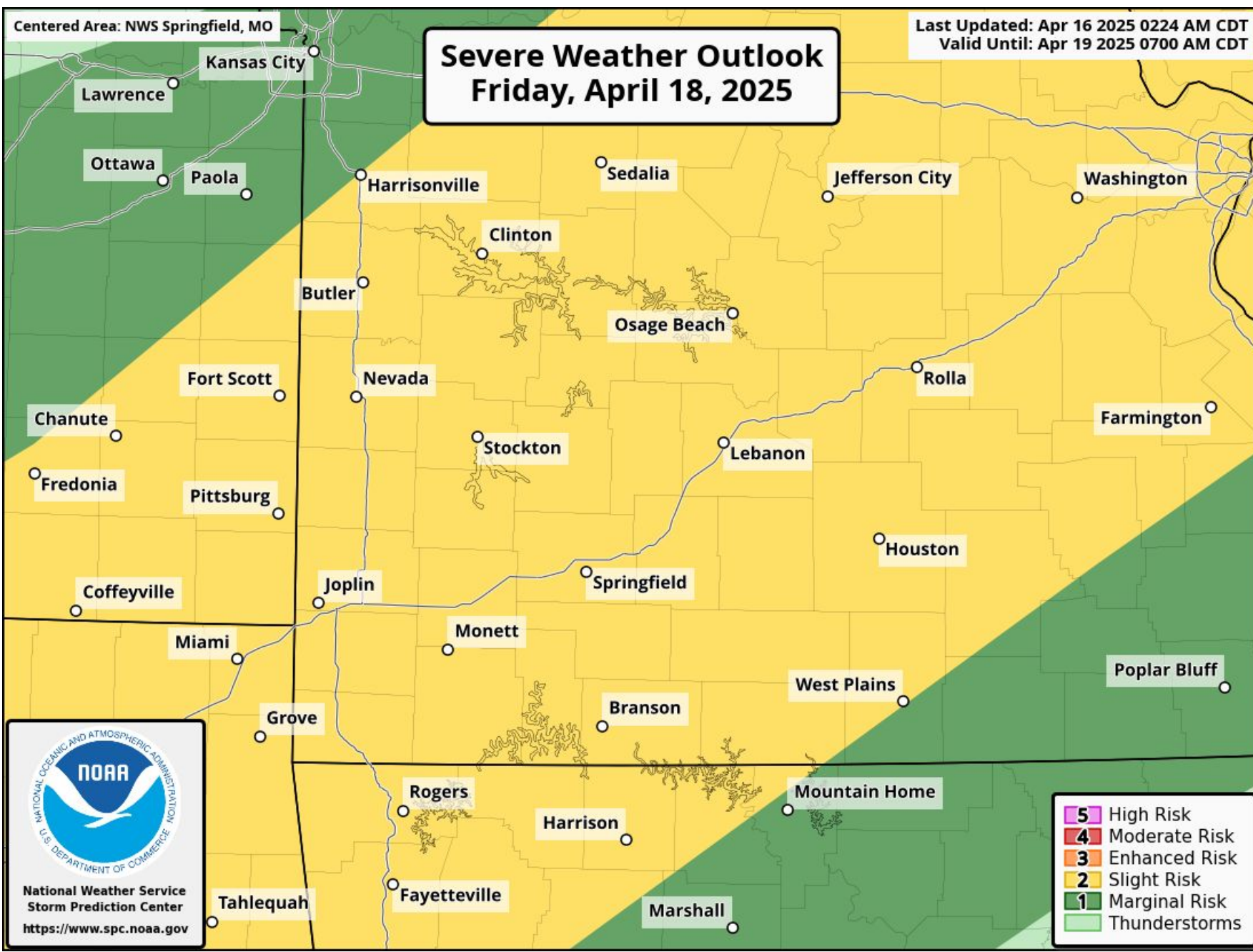
 **Wind**

 **Flooding**

Lo Med Hi

Lo Med Hi

Lo Med Hi



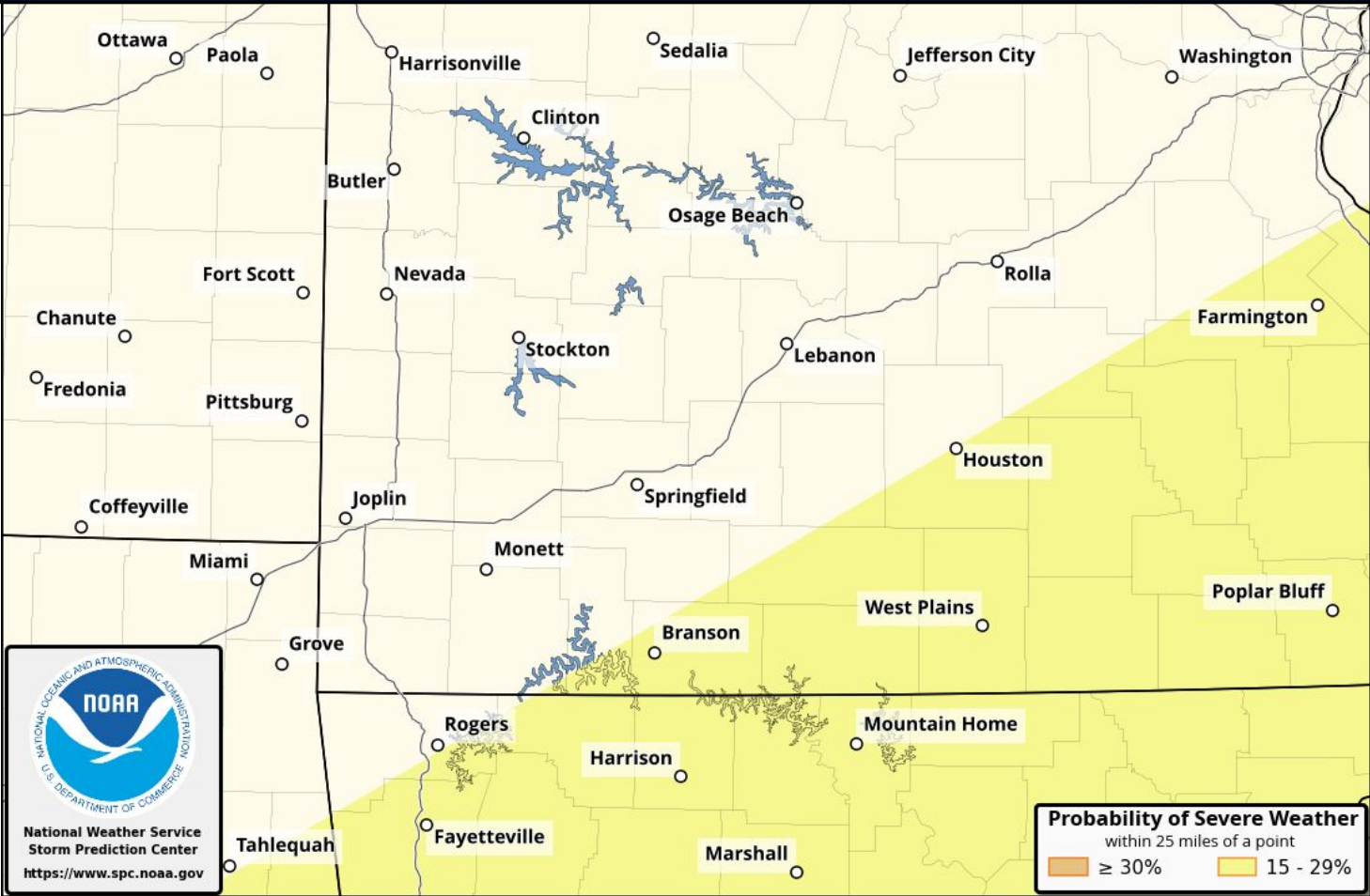


Severe Weather Outlooks

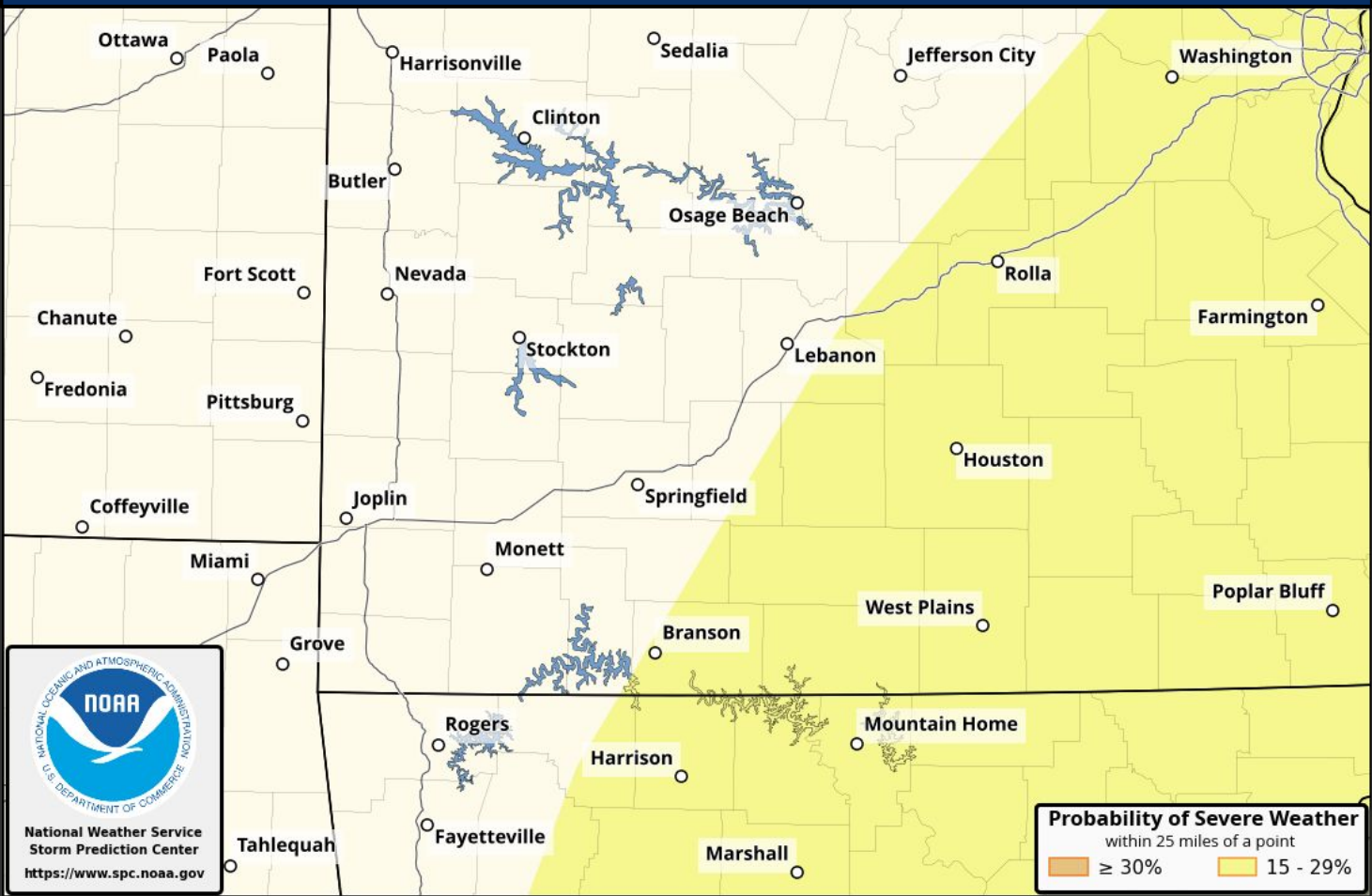
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Saturday and Sunday

Severe Weather Outlook Saturday



Severe Weather Outlook Sunday



Monitor the forecast. Consider making alternative plans for outdoor activities. Review your severe weather plans.



Hail up to Quarters



Damaging Wind Gusts



Heavy Downpours



Lightning



National Oceanic and
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National Weather Service
Springfield, MO



Timing of Gusty Winds

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Thursday and Friday

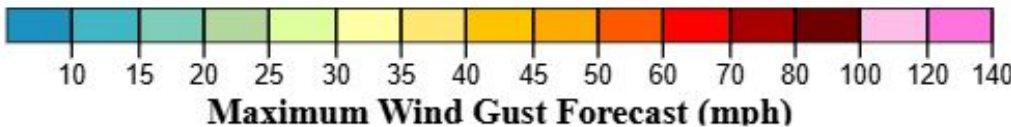
Timing



Southerly winds will be the strongest by Thursday afternoon with gusts up to 35-45 mph, especially for areas near the I-49 corridor.

Winds start to diminish by Friday evening.

	4/17 Thu								4/18 Fri							
	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm
Branson	15↗	15↗	18↗	24↗	28↗	28↗	26↗	24↗	23↗	22↗	22↗	24↗	24↗	22↗	20↗	17↗
Fort Leonard Wood	23↗	24↗	25↗	28↗	30↗	31↗	29↗	28↗	28↗	28↗	26↗	26↗	25↗	23↗	21↗	18↗
Joplin	24↗	28↗	30↗	35↗	36↗	36↗	33↗	33↗	32↗	32↗	31↗	31↗	29↗	25↗	21↗	17↗
Lebanon	23↗	25↗	28↗	29↗	30↗	31↗	30↗	30↗	29↗	29↗	28↗	28↗	28↗	24↗	22↗	18↗
Monett	23↗	24↗	28↗	33↗	35↗	35↗	32↗	32↗	31↗	32↗	31↗	32↗	31↗	28↗	23↗	18↗
Mountain Grove	24↗	25↗	28↗	32↗	37↗	38↗	35↗	32↗	31↗	31↗	29↗	31↗	31↗	29↗	24↗	22↗
Nevada	23↗	25↗	29↗	37↗	39↗	39↗	33↗	33↗	33↗	35↗	33↗	31↗	29↗	25↗	20↗	17↗
Osage Beach	20↗	20↗	22↗	25↗	28↗	28↗	25↗	24↗	24↗	24↗	23↗	23↗	23↗	21↗	17↗	15↗
Pittsburg, KS	24↗	26↗	30↗	35↗	36↗	36↗	32↗	33↗	32↗	32↗	31↗	30↗	28↗	23↗	20↗	17↗
Rolla	23↗	24↗	25↗	29↗	32↗	32↗	30↗	29↗	28↗	28↗	26↗	28↗	28↗	25↗	22↗	18↗
Springfield	22↗	23↗	25↗	30↗	32↗	33↗	31↗	30↗	29↗	29↗	28↗	29↗	29↗	26↗	22↗	18↗
Warsaw	20↗	20↗	23↗	26↗	29↗	30↗	28↗	28↗	26↗	26↗	25↗	24↗	24↗	21↗	17↗	15↗
West Plains	20↗	20↗	23↗	26↗	31↗	31↗	29↗	26↗	26↗	25↗	25↗	28↗	28↗	28↗	22↗	21↗





Early Look at Rainfall Timing

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4:47 AM

This Weekend

Timing

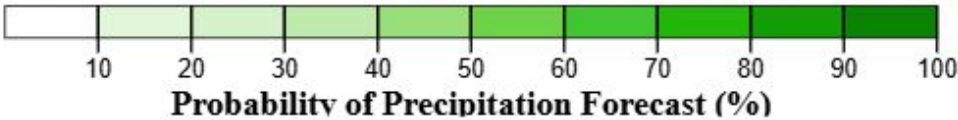


Rainfall chances will continue to be refined as we get closer however rainfall chances are above 60% for Saturday and Sunday.

There still could be dry time in between rounds of thunderstorms.

Probability of Precipitation Forecast (%)

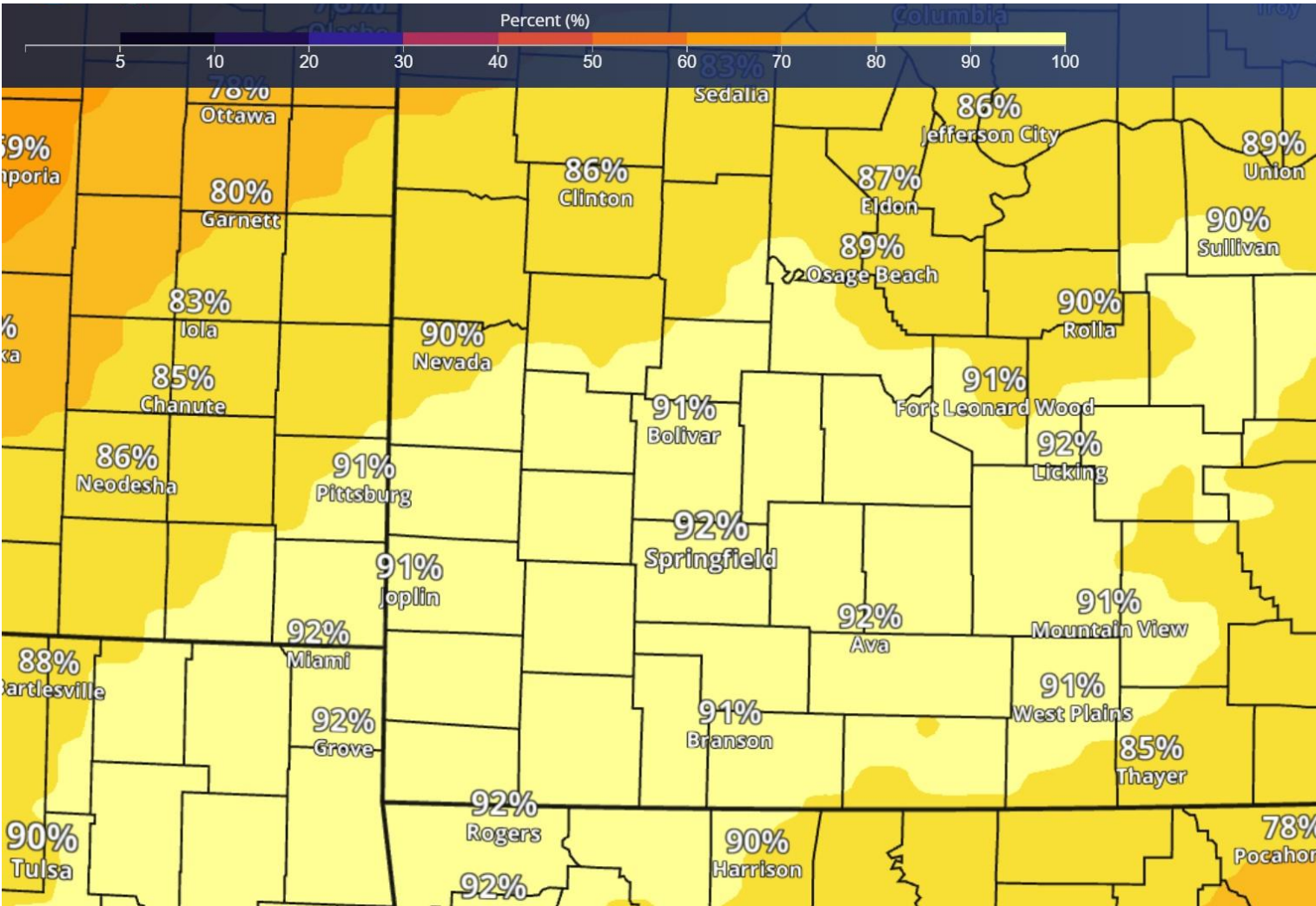
	4/18				4/19				4/20				4/21			
	Fri				Sat				Sun				Mon			
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
Branson	0	0	5	25	70	80	80	85	80	70	65	50	35	20	10	10
Fort Leonard Wood	0	5	5	30	80	85	85	85	80	70	65	50	45	30	15	10
Joplin	5	5	5	35	70	80	85	80	75	75	70	55	35	15	10	5
Lebanon	5	5	5	40	85	85	85	85	80	75	70	55	45	30	15	10
Monett	5	5	5	40	75	85	90	85	80	70	70	50	35	15	10	5
Mountain Grove	0	0	5	30	70	85	85	85	80	75	70	55	45	30	15	10
Nevada	5	10	5	40	70	80	80	70	65	75	70	55	40	25	10	5
Osage Beach	5	5	10	40	80	85	80	75	70	70	70	50	45	30	15	10
Pittsburg, KS	5	5	5	40	70	80	80	70	65	75	70	55	35	20	10	5
Rolla	0	5	5	30	80	85	80	80	75	75	65	50	50	35	15	10
Springfield	5	5	5	40	80	85	90	80	80	75	70	50	40	25	15	5
Warsaw	5	5	10	45	75	80	80	70	65	70	70	55	45	25	20	10
West Plains	0	0	5	20	55	75	75	80	80	80	65	55	45	35	15	10



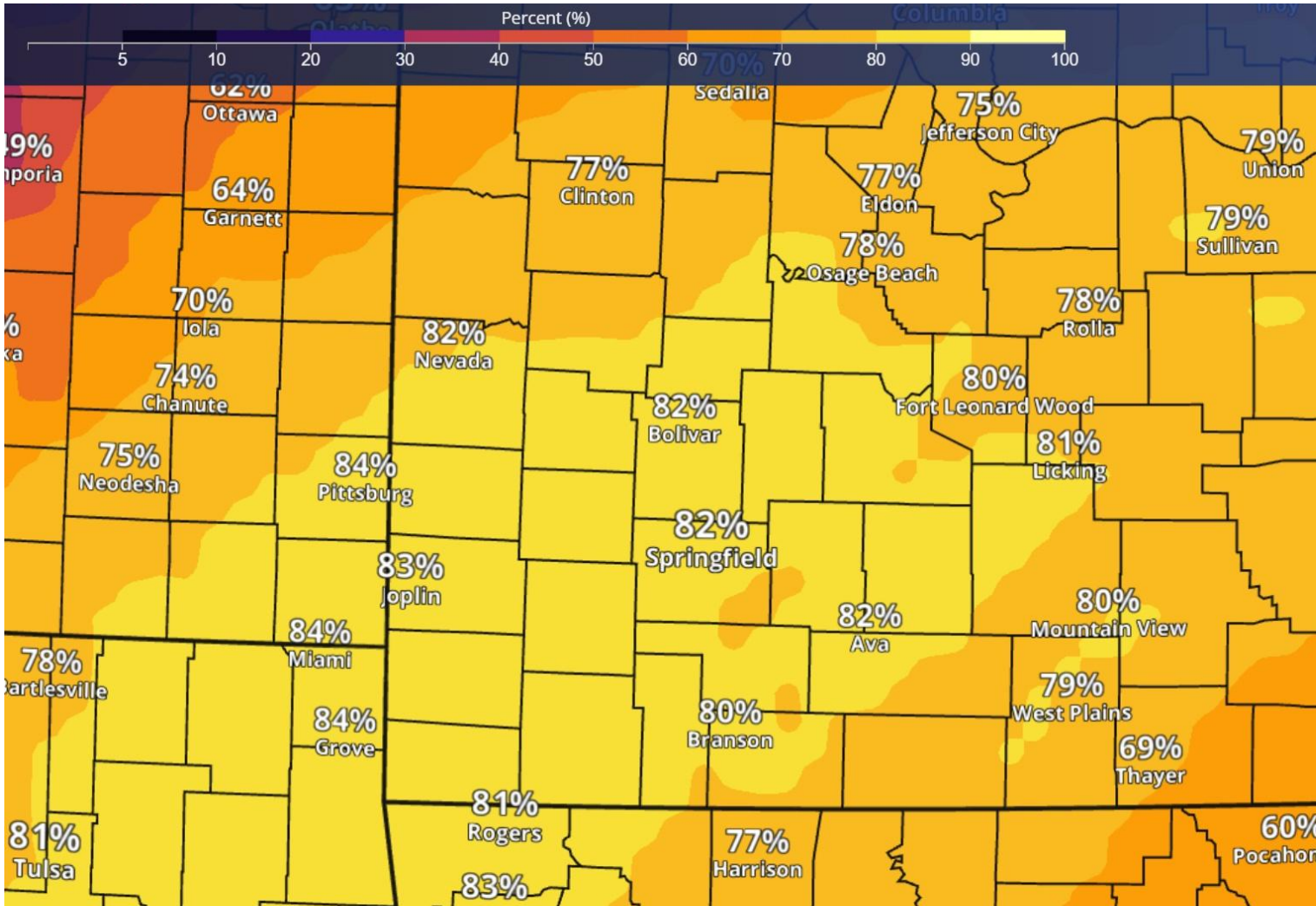


Rainfall Probs (Friday - Sunday Night)

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Probability of > 0.50" of rain



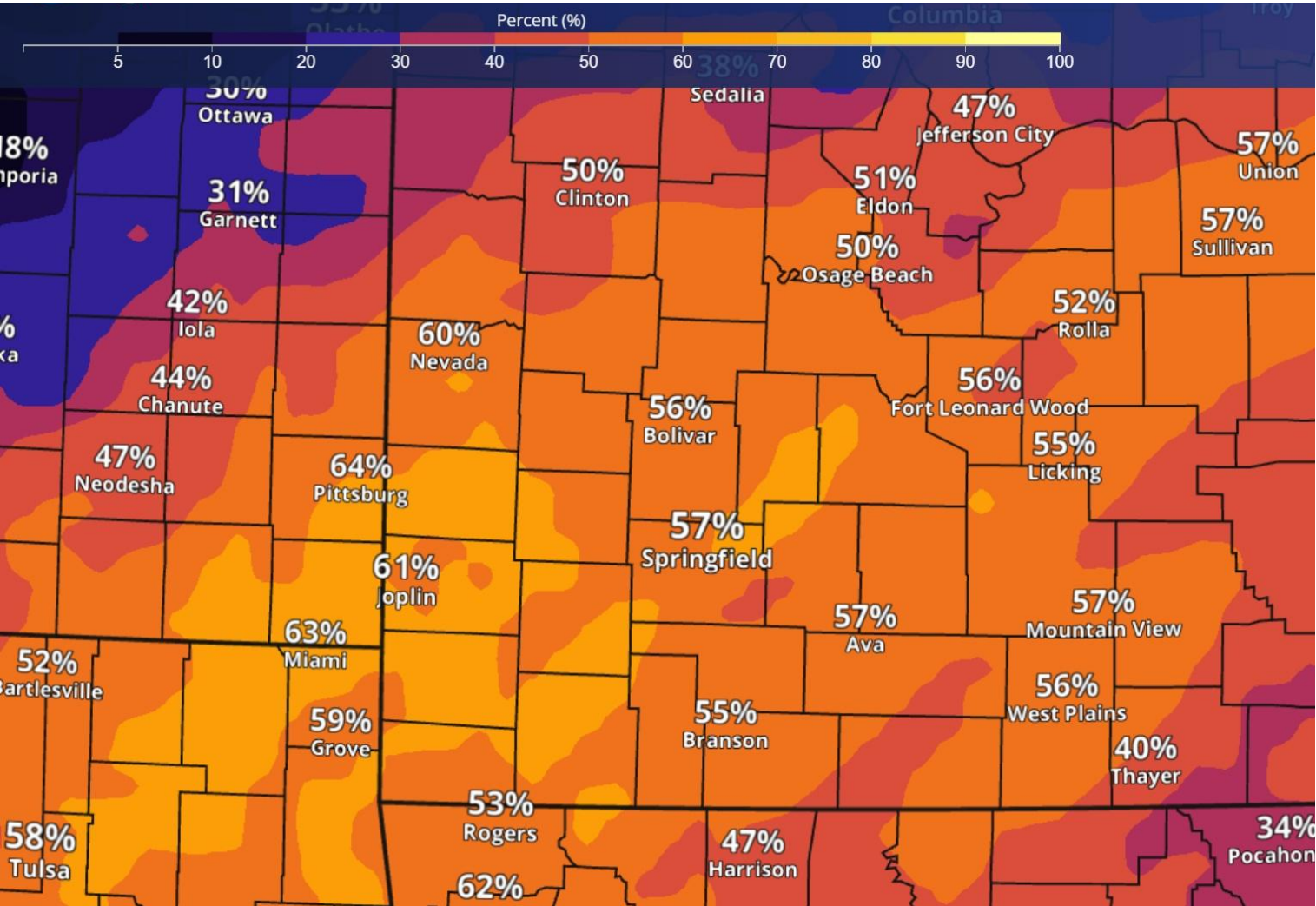
Probability of > 1.0" of rain



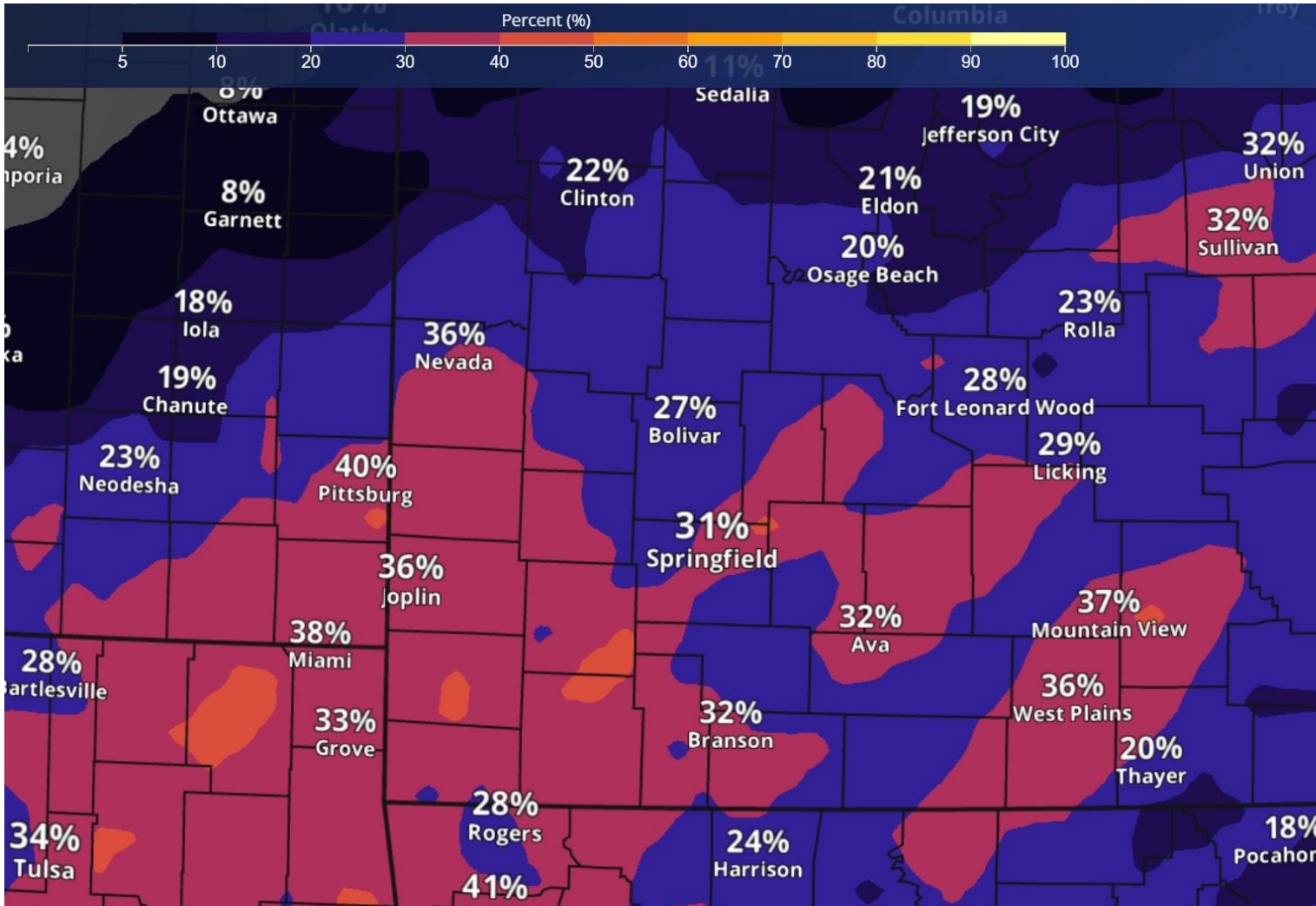


Rainfall Probs (Friday - Sunday Night)

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Probability of > 2.00" of rain



Probability of > 3.00" of rain

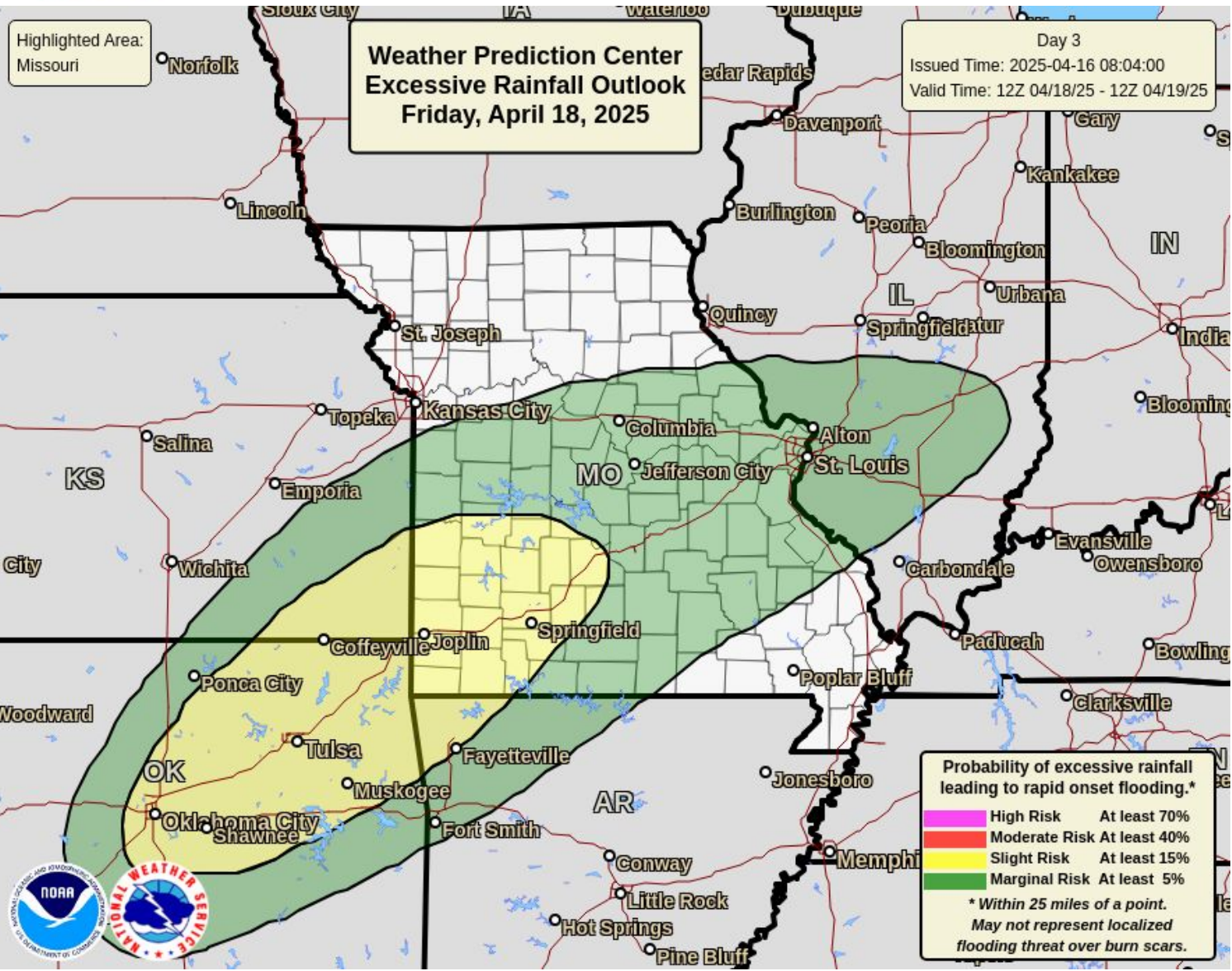




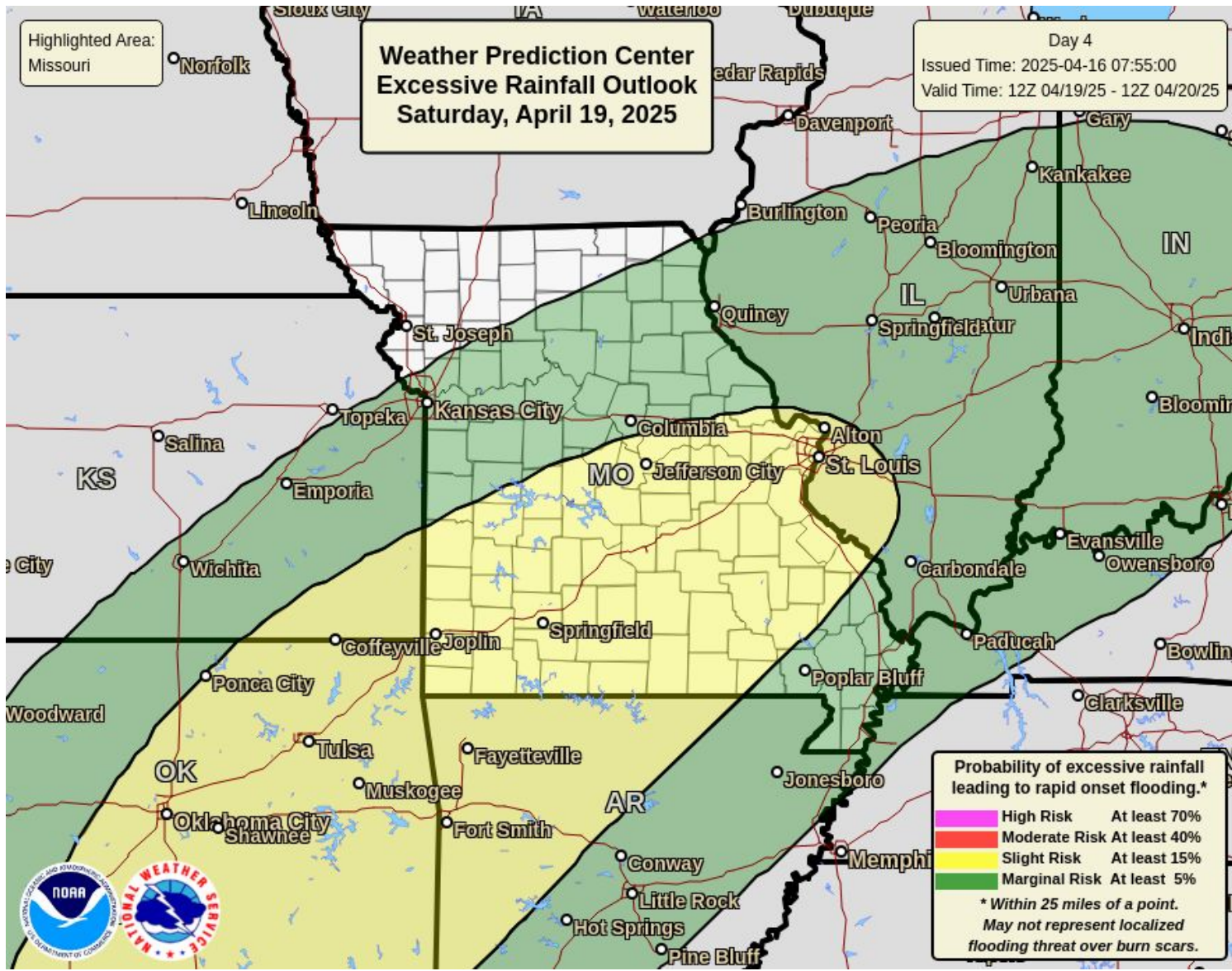
Excessive Rainfall Outlooks

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Friday and Saturday



Friday - Friday Night



Saturday - Saturday Night



Confidence Levels

April 16, 2025
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Severe Weather This Weekend



Flooding Potential This Weekend



Timing of Rainfall/Storms



Lightning Occurring over the Weekend



Confidence Details

- Confidence is medium to high that showers and thunderstorms will occur intermittently throughout the weekend.
- There is a medium chance for severe thunderstorms to occur on Friday with the cold front moving through the area.
- There is a low-medium probability of severe thunderstorms to occur again on Sunday.

Alternate Scenarios

- Friday's thunderstorms could potentially form along the front and cause a damaging wind threat as it pushes through.
- If showers and thunderstorms train over the same areas this weekend, that may lead to flooding especially in areas that saw excessive rainfall in early April.





Additional Resources

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4:47 AM

For Additional Information

- [NWS Springfield Webpage](#)
- [IDSS Point Forecasts](#)
- [Graphical Hazardous Weather Outlook](#)
- [Probabilistic QPF Experiment Webpage](#)
- [WPC Excessive Rainfall Outlooks](#)
- [WPC Precipitation Outlooks](#)
- [AHPS Lakes and Rivers](#)
- [Submit Storm Reports](#)

STORM PLANNING TIMELINE

A few days out	The day before	The day of
<i>If the forecast calls for severe weather in a few days, start preparing now.</i>	<i>The day before, forecast accuracy continues to improve.</i>	<i>Remain vigilant and aware of any active Watches. A Warning may be issued at a moment's notice!</i>
Make sure that you have emergency supplies	Adjust plans	Remind your family of the communication plan
Know your safe places	Make sure your phone can receive WEAs	Know how to evacuate and/or get to safety from wherever you are
Have a family communication plan	Ensure your shelter is clean and accessible	When a Warning is issued, you may only have seconds to take action!

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Small Decisions can have a **BIG IMPACT.**

- Turn around and don't drive through a flooded roadway
- Don't drive around barricades
- Delay travel until conditions improve

Don't let a bad decision be your last.

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