



Severe Weather Briefing

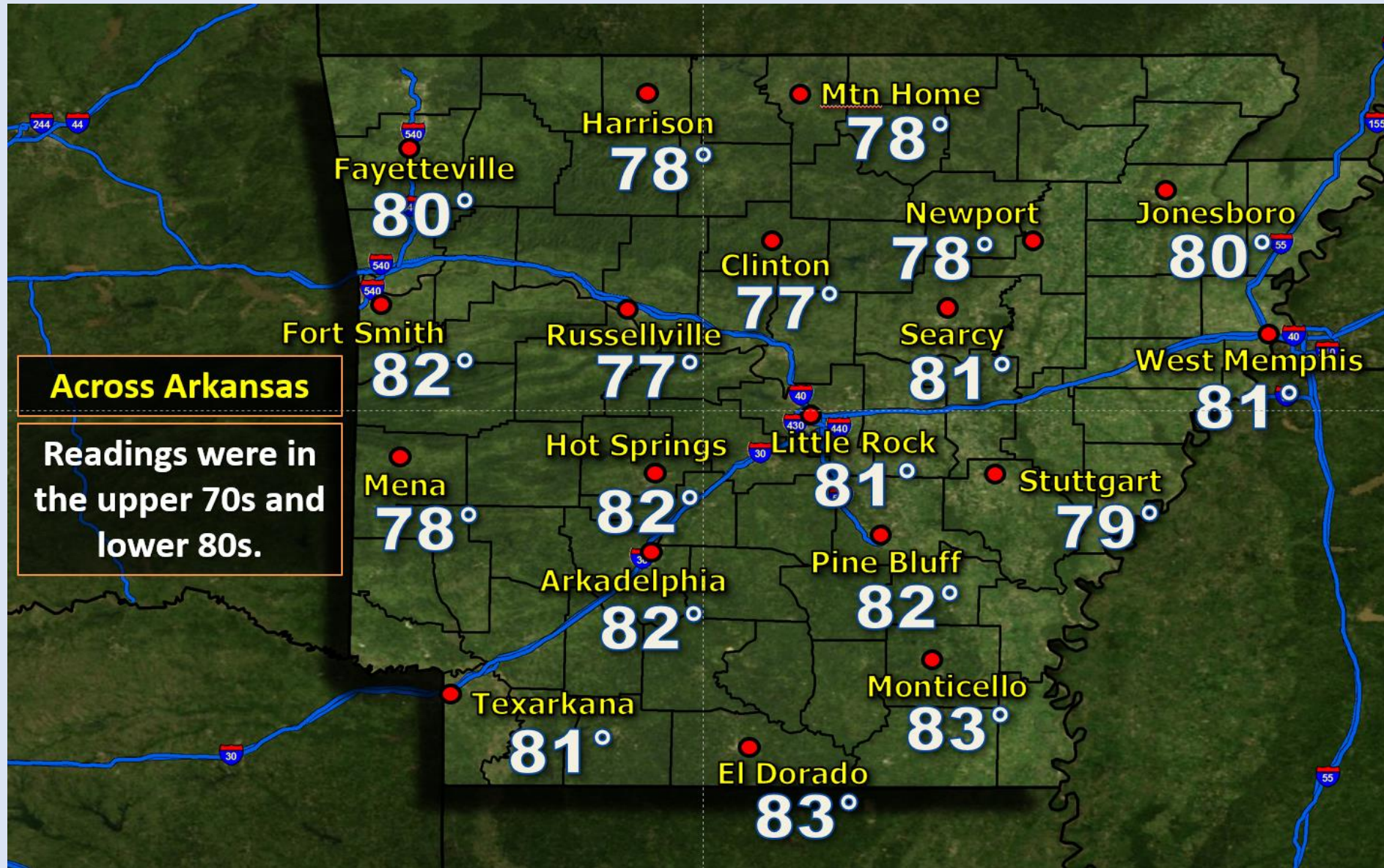
**National Weather Service
Little Rock, Arkansas**

April 4, 2023 – 1:00 PM

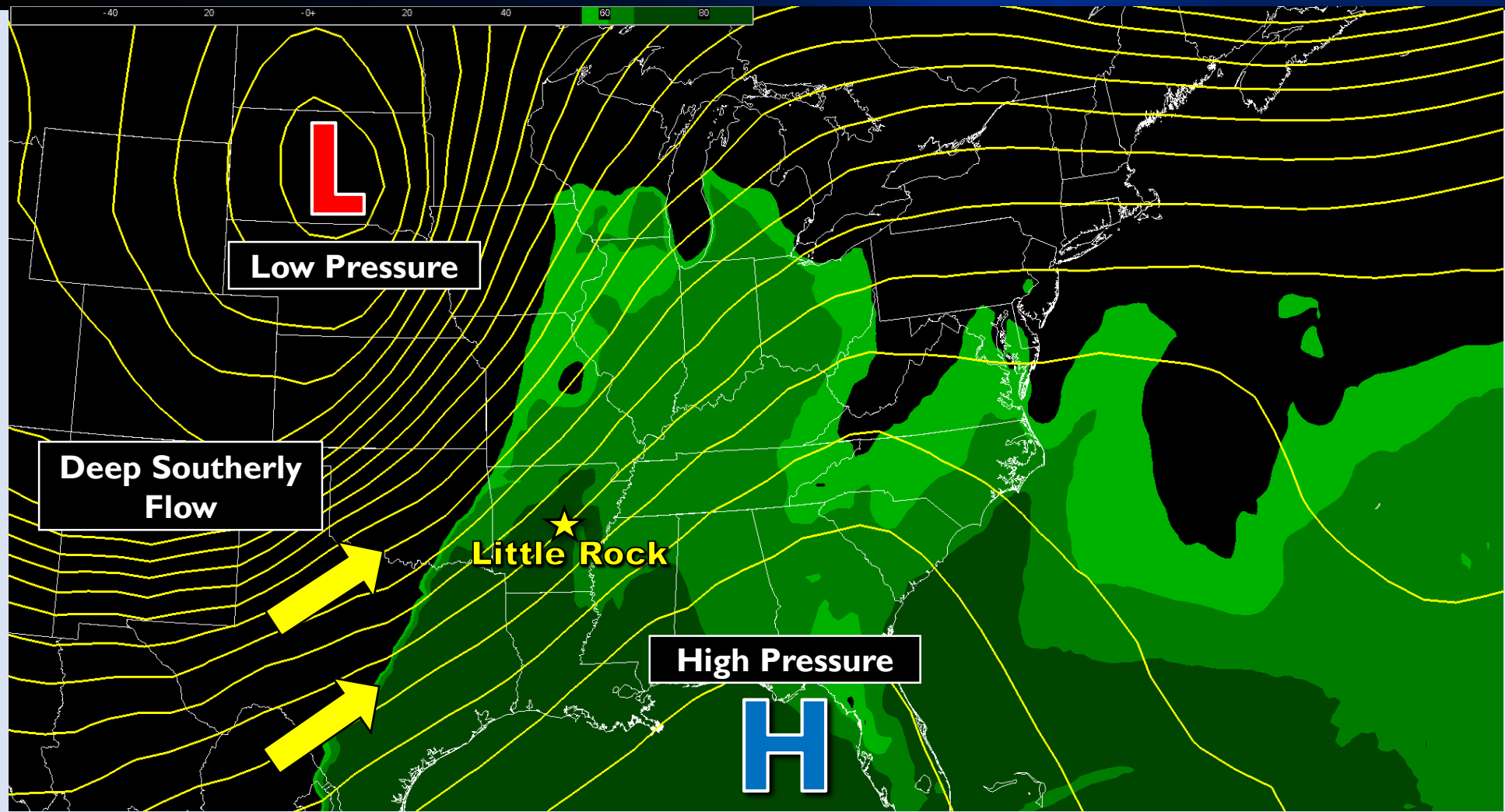


- **Very warm temperatures are expected across much of the state Tuesday. Temperatures will climb well into the 80s in places.**
- **Thunderstorms are expected to develop and move across the state from Tuesday evening through Wednesday morning.**
- **Damaging winds, tornadoes and large hail will be possible as storms move across the state.**
- **Initial storm development should occur in the northwest Tuesday evening, with isolated supercells possible. Overnight/early Wednesday, storms are expected to merge into a line and march east across the state.**
- **Locally heavy rainfall will be possible, but widespread heavy/excessive rain is not in the forecast. The highest amounts are expected across far southern Arkansas.**

Temperatures at 100 pm CDT (April 4)



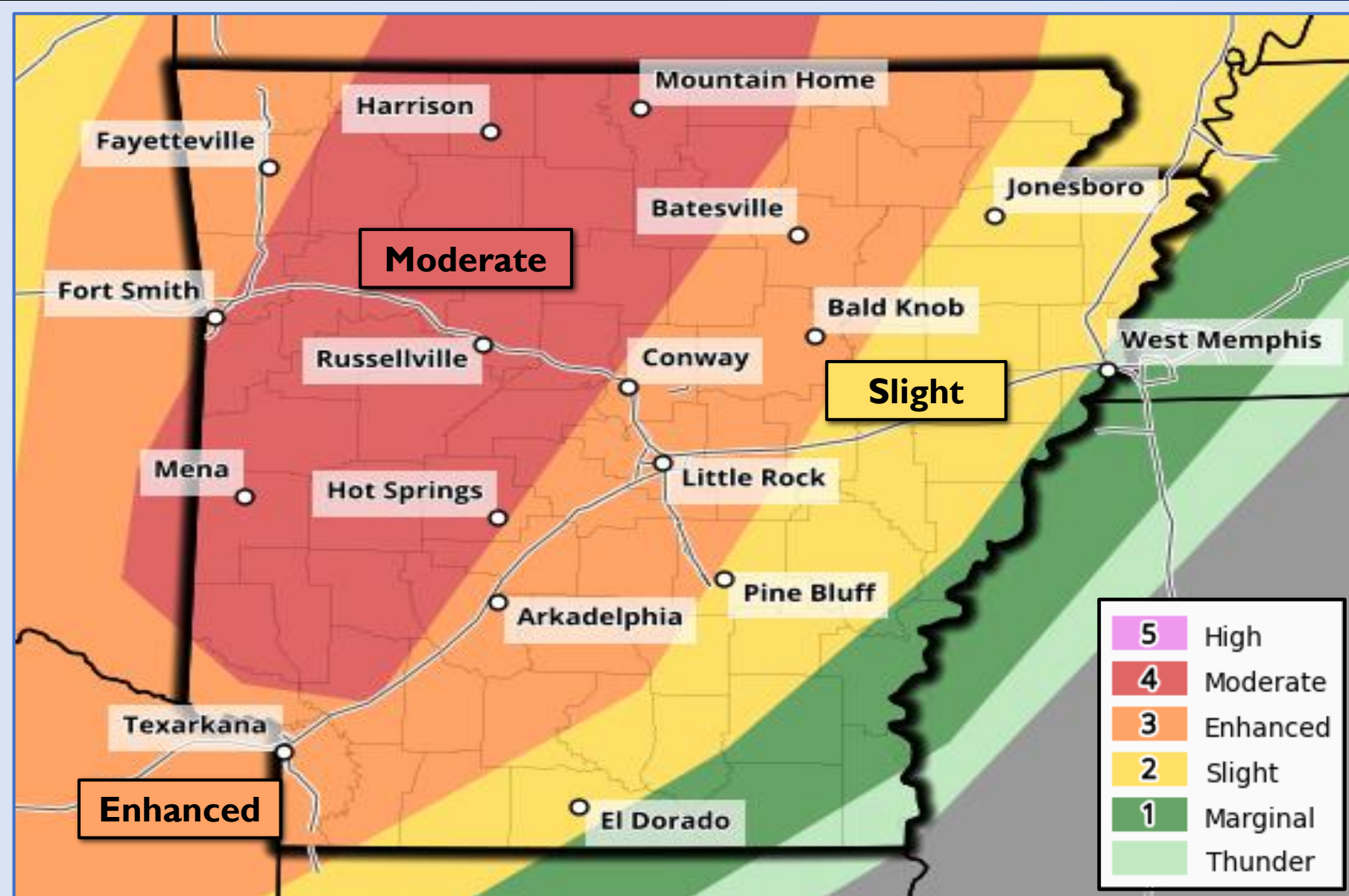
The Pattern (April 4)



A powerful storm system (“L”) will move into the northern Plains Tuesday night. Deep southerly flow ahead of the system will pull moisture into the region from the Gulf of Mexico. This combined with well above average temperatures will make the atmosphere very unstable.

Risk of Severe Weather (April 4-5)

Weather Forecast Office
Little Rock, AR



Maximum Hail Size

Up to Softball

Up to Baseball

Up to Golf ball

Up to Quarter

Maximum Wind Speed

80+ mph

60-80 mph

Up to 60 mph

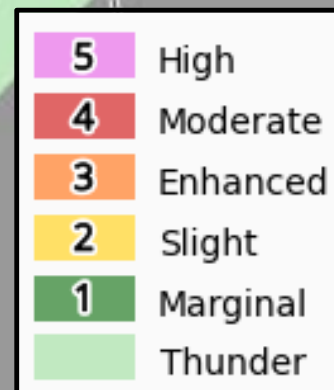
Tornado Potential

High

Medium

Low

Very Low



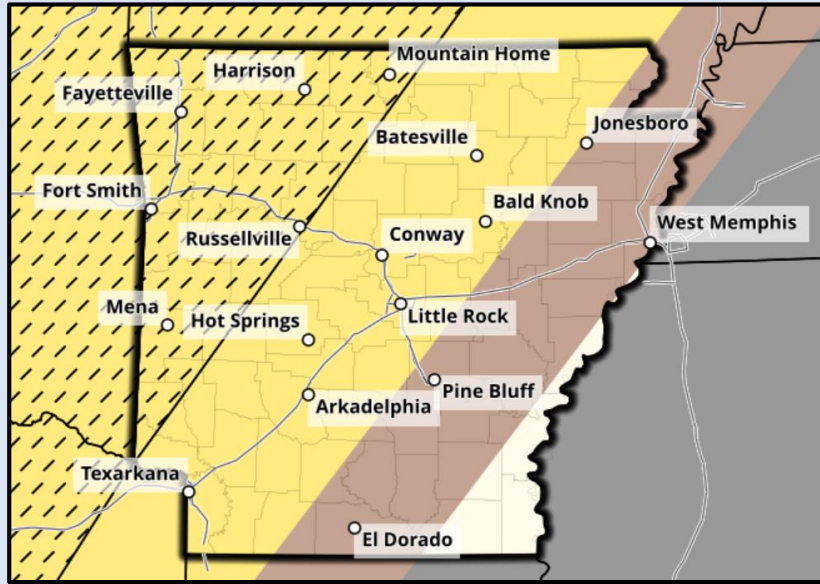
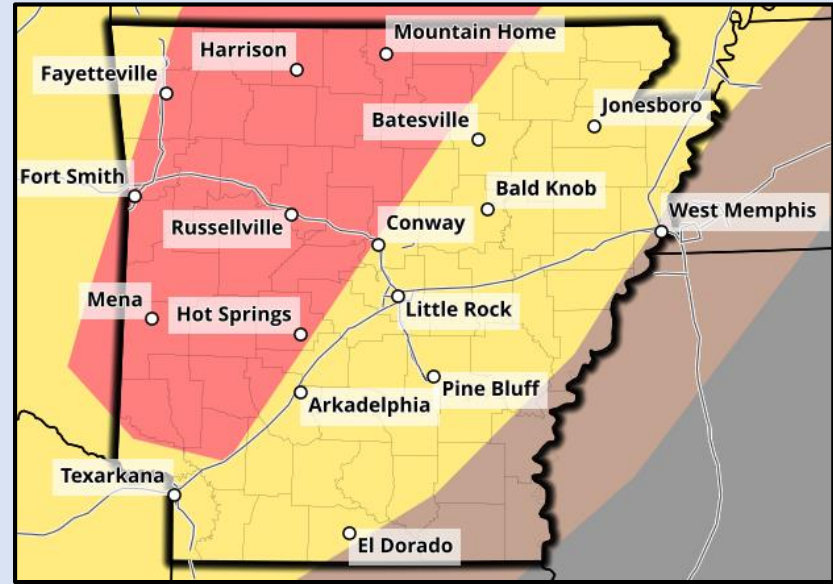
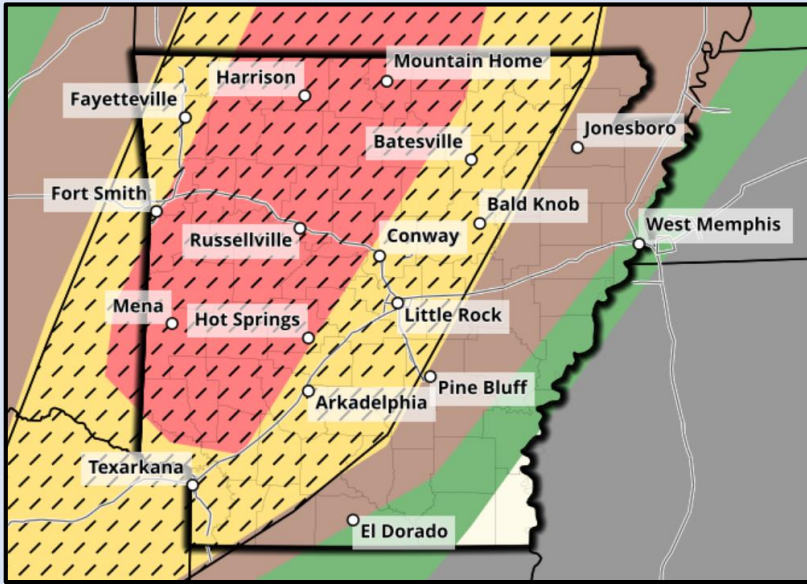
Individual Severe Hazard Risk (April 4-5)



Tornado Outlook

Severe Wind Outlook

Severe Hail Outlook



Probability of a Tornado
within 25 miles of a point

≥ 60%	10 - 14%
45 - 59%	5 - 9%
30 - 44%	2 - 4%
15 - 29%	

Hatched Area: ≥ 10% probability of a significant tornado (EF2 - EF5)

Probability of Severe Wind
within 25 miles of a point

≥ 60%	15 - 29%
45 - 59%	5 - 14%
30 - 44%	

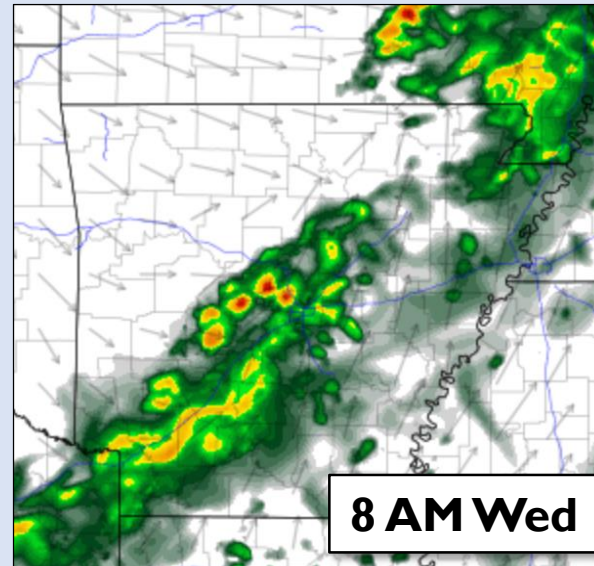
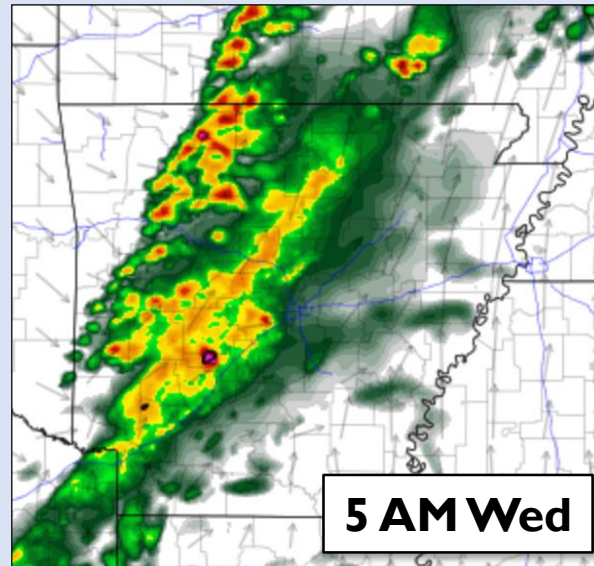
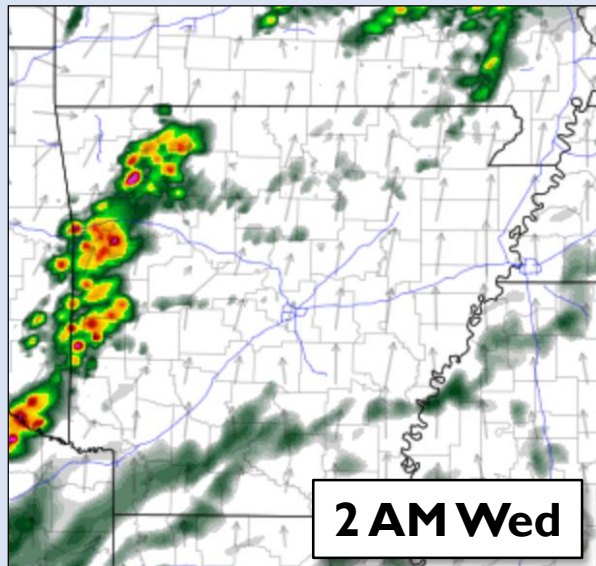
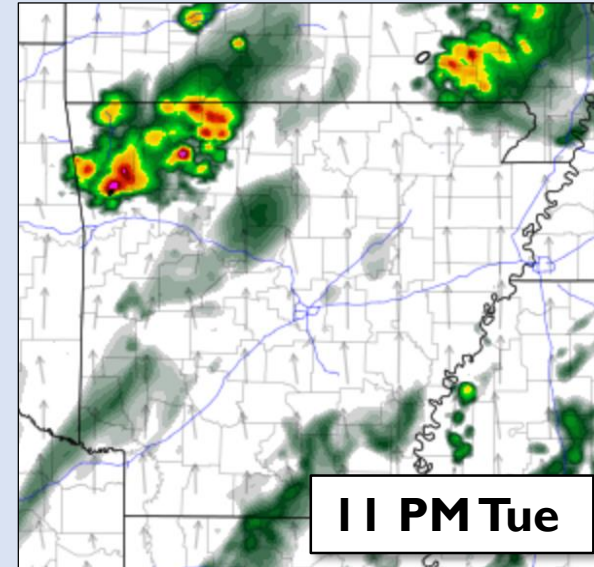
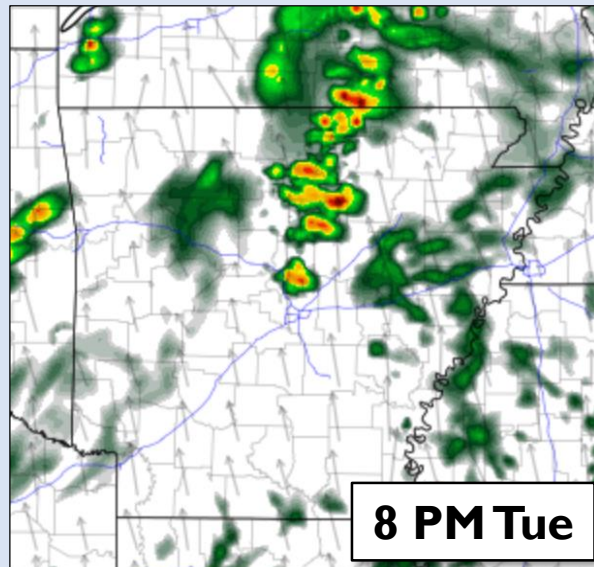
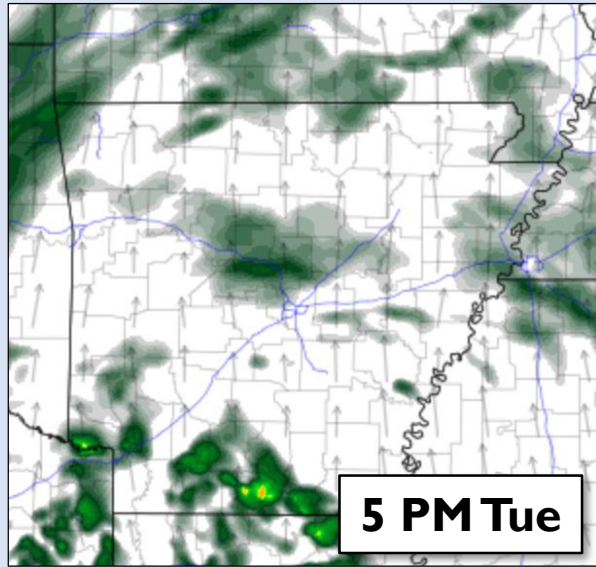
Hatched Area: ≥ 10% probability of significant wind gusts (≥ 74 mph)

Probability of Severe Hail
within 25 miles of a point

≥ 60%	15 - 29%
45 - 59%	5 - 14%
30 - 44%	

Hatched Area: ≥ 10% probability of significant hail (≥ 2" diameter)

Potential Storm Timing



Isolated to scattered thunderstorms are expected in northern Arkansas Tuesday evening. The tornado and hail threat will be greatest given discrete storms.

Later Tuesday night/early Wednesday, a second round of storms, which is more likely to be a squall line, will move across the state. Damaging winds will become the primary threat, but isolated tornadoes will be possible.

Note that this is a single model run, and is intended to provide a general idea and timing of how storms may evolve.

Graphics courtesy of the College of DuPage

Risk of Severe Weather (April 5)



Maximum Hail Size

Up to Softball

Up to Baseball

Up to Golf ball

Up to Quarter

Maximum Wind Speed

80+ mph

60-80 mph

Up to 60 mph

Tornado Potential

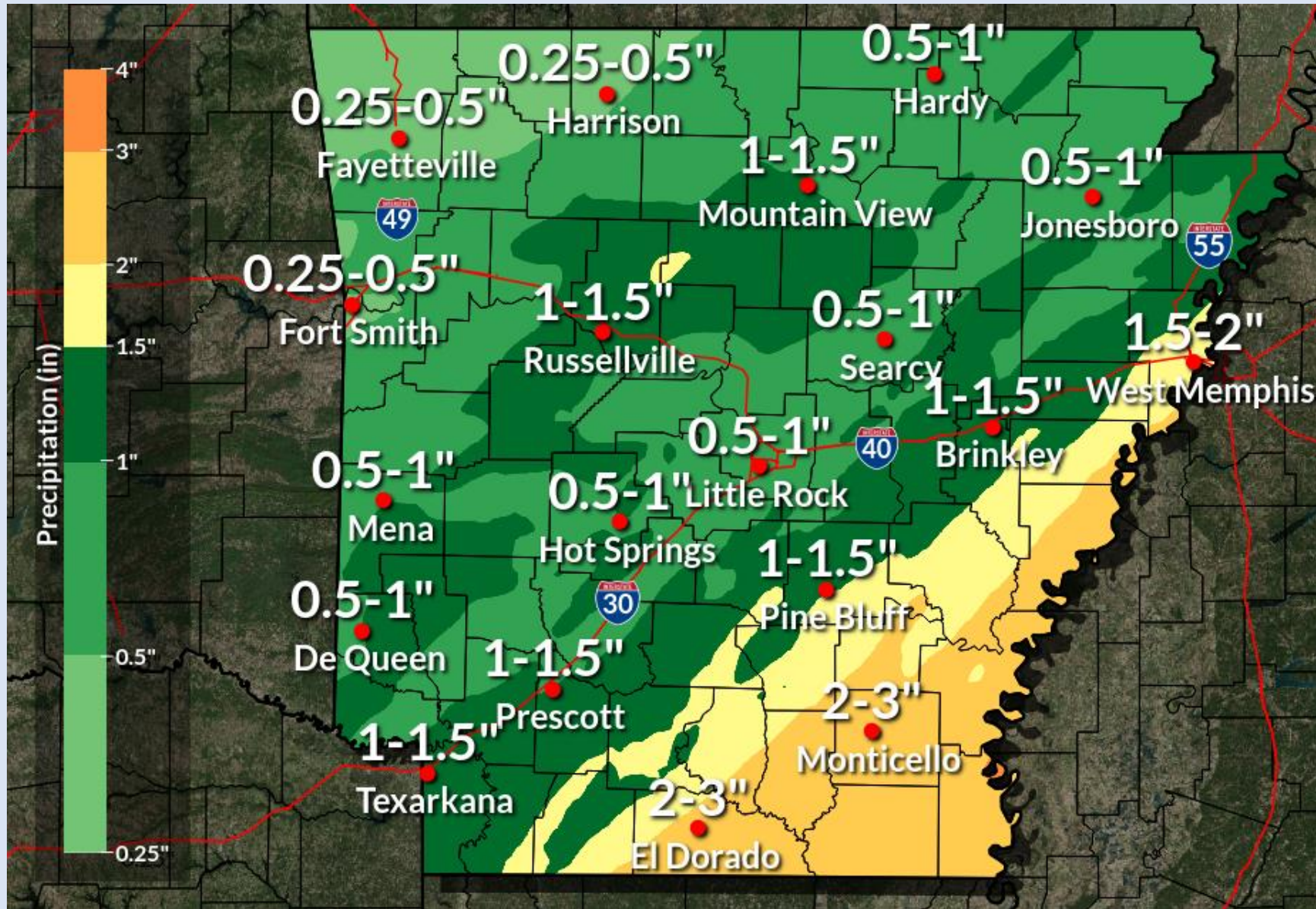
High

Medium

Low

Very Low

Expected Rain (Through April 7)



Locally heavy rainfall is expected across the state through Friday.

The majority of the rain will fall from late Tuesday through Wednesday.

Overall rainfall amounts are expected to be one inch or less across most of the state, with southeastern Arkansas possibly picking up an additional two to three inches of rainfall.

Any flash flooding potential should stay limited to southeastern Arkansas.



Severe Thunderstorm Risk Categories

Thunderstorms (no label)

No severe storms expected

Lightning/flooding threats exist with all storms



Enhanced (ENH)

Numerous severe storms possible

More persistent and/or widespread, a few intense

Marginal (MRGL)

Isolated severe storms possible

Limited in duration and/or coverage and/or intensity



Moderate (MDT)

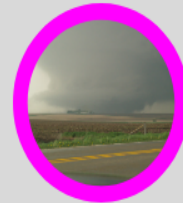
Widespread severe storms likely

Long-lived, widespread and intense

Slight (SLGT)

Scattered severe storms possible

Short-lived and/or not widespread, isolated intense storms



High (HIGH)

Widespread severe storms expected

Long-lived, very widespread and particularly intense



NWS defines a severe thunderstorm as measured wind gusts of at least 58 mph, and/or hail of 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.



For the latest information



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