

Severe Storm and Flood Potential

December 21, 2013

Threat Assessment for south-central Indiana and
central Kentucky

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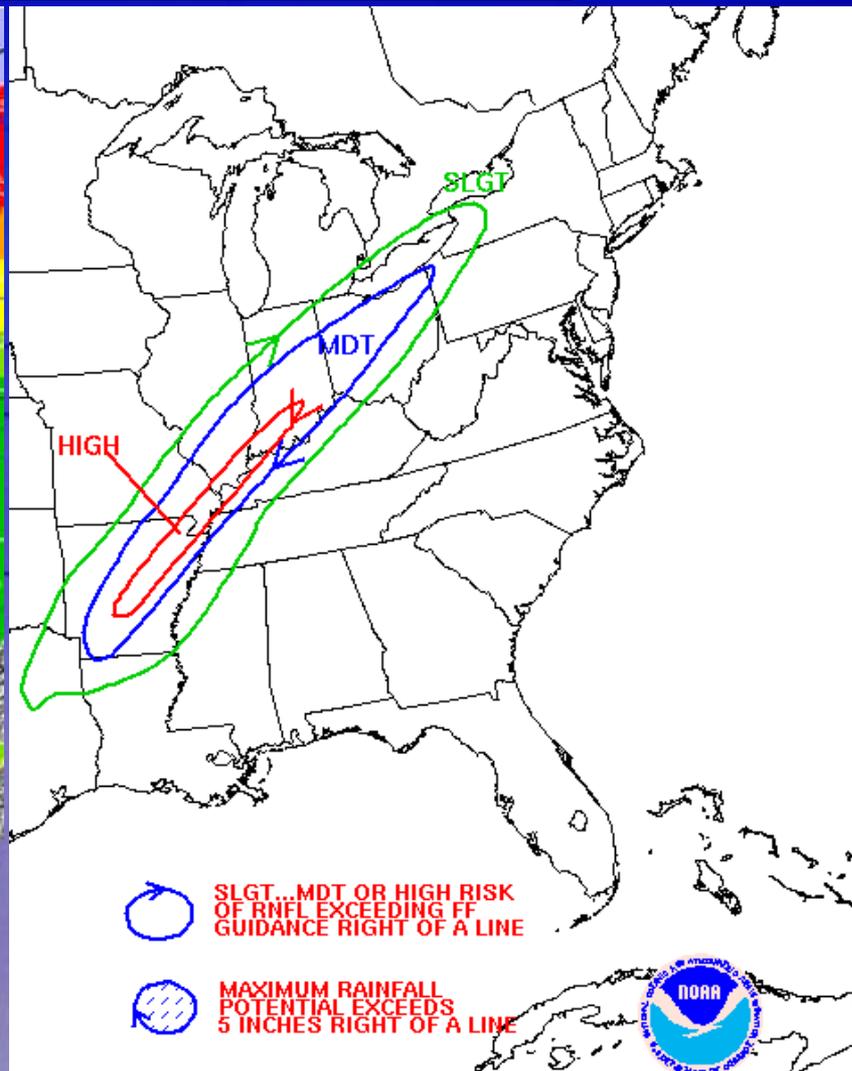
Expected Impacts

Flooding Potential:

- **Prime location is north of the Western Kentucky and Bluegrass Parkways and west of I-75**
- **Total rainfall 2-4 inches by Sunday morning, locally higher amounts over southern Indiana**
- **Localized flooding/ponding during times of heaviest rain**
- **River flooding possible early next week**

Heavy Rain/Flood Potential

48-hr Forecast Areal-Avg Precipitation (HPCQPF)
Ending 7 AM EST, Mon, Dec 23, 2013



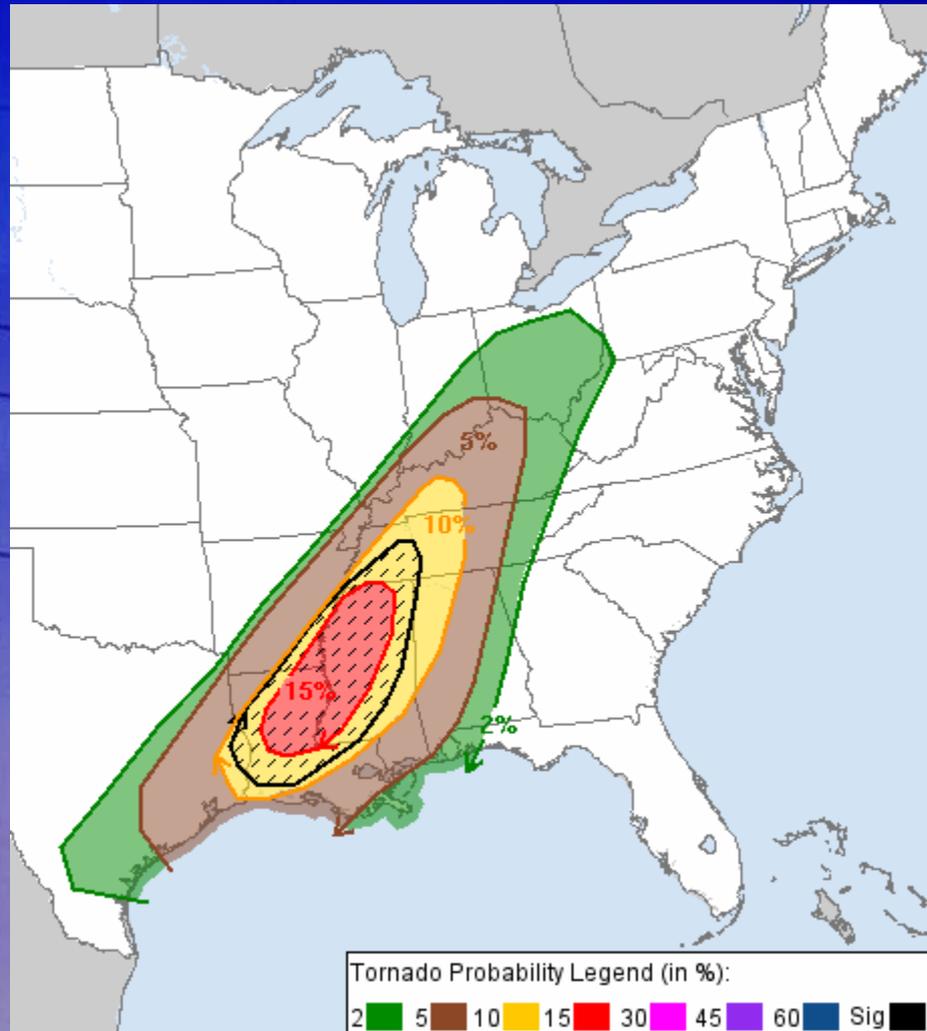
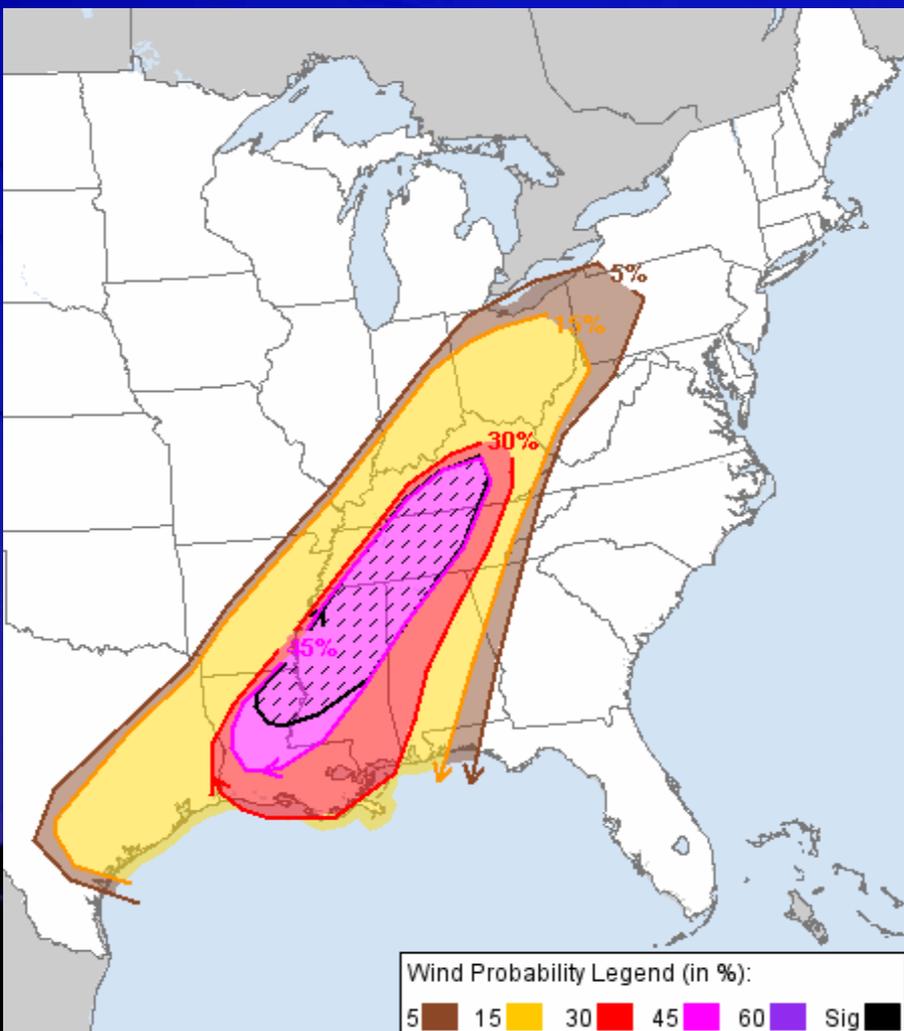
Expected Impacts

Severe Weather Potential:

- **Moderate Risk of severe weather in central Kentucky**
- **8 PM – 3 AM**
- **Damaging winds (hurricane force in strongest storms?)**
- **Isolated nocturnal squall line tornadoes (west of I-65)**
- **Gusty winds (40+ mph) before any storms**

Wind Probabilities

Tornado Probabilities



Confidence and Uncertainty

- High confidence in southern Indiana river flooding
 - Lower confidence in flash flooding
- Moderate confidence in south-central Kentucky severe weather
- Confidence is lower between the Ohio River and the WK/Bluegrass Parkways
 - Enough rain for flood issues?
 - Enough instability for severe?