



Weather Briefing

April 17-20, 2013



National Weather Service
Detroit/Pontiac, MI

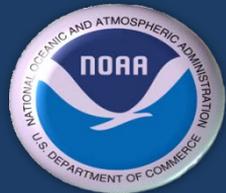
<http://www.weather.gov/dtx>

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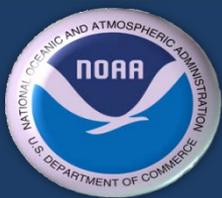
Decision Support Briefing Highlights



Summary of Events

Active weather during the second half of this week:

- Potential for flooding Tonight through Friday morning
 - Mainly along and north of Interstate 69
 - Could lead to both River Flooding and County Wide Areal Flooding
- Potential for severe thunderstorms Thursday
- Potential for damaging wind Friday



Rainfall Observed Last Week



Saturated ground due to heavy rainfall last week.



Decision Support Briefing Highlights



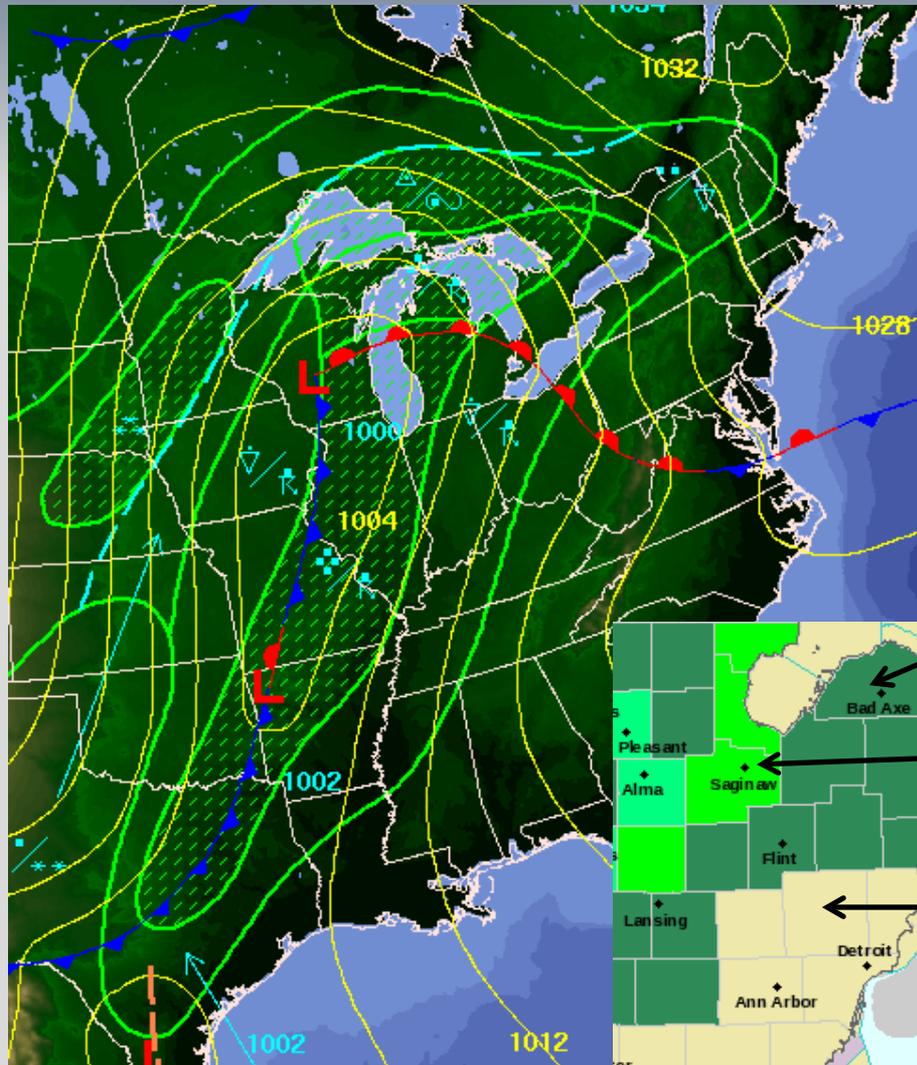
Flood Potential Summary

Rain will spread into lower Michigan Tonight as a warm front moves northward.

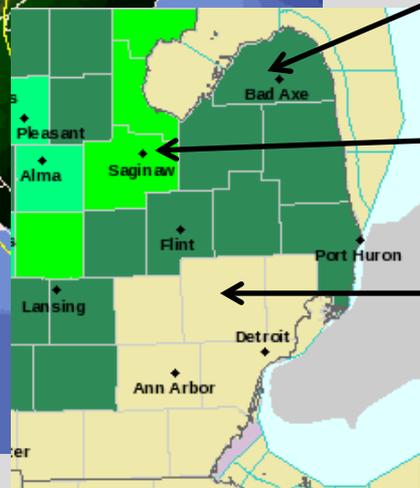
Flood Watch counties Tonight through Friday morning

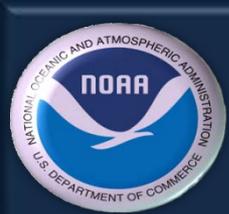
River Flood Warnings

Locally heavy rainfall possible, mainly Thursday night

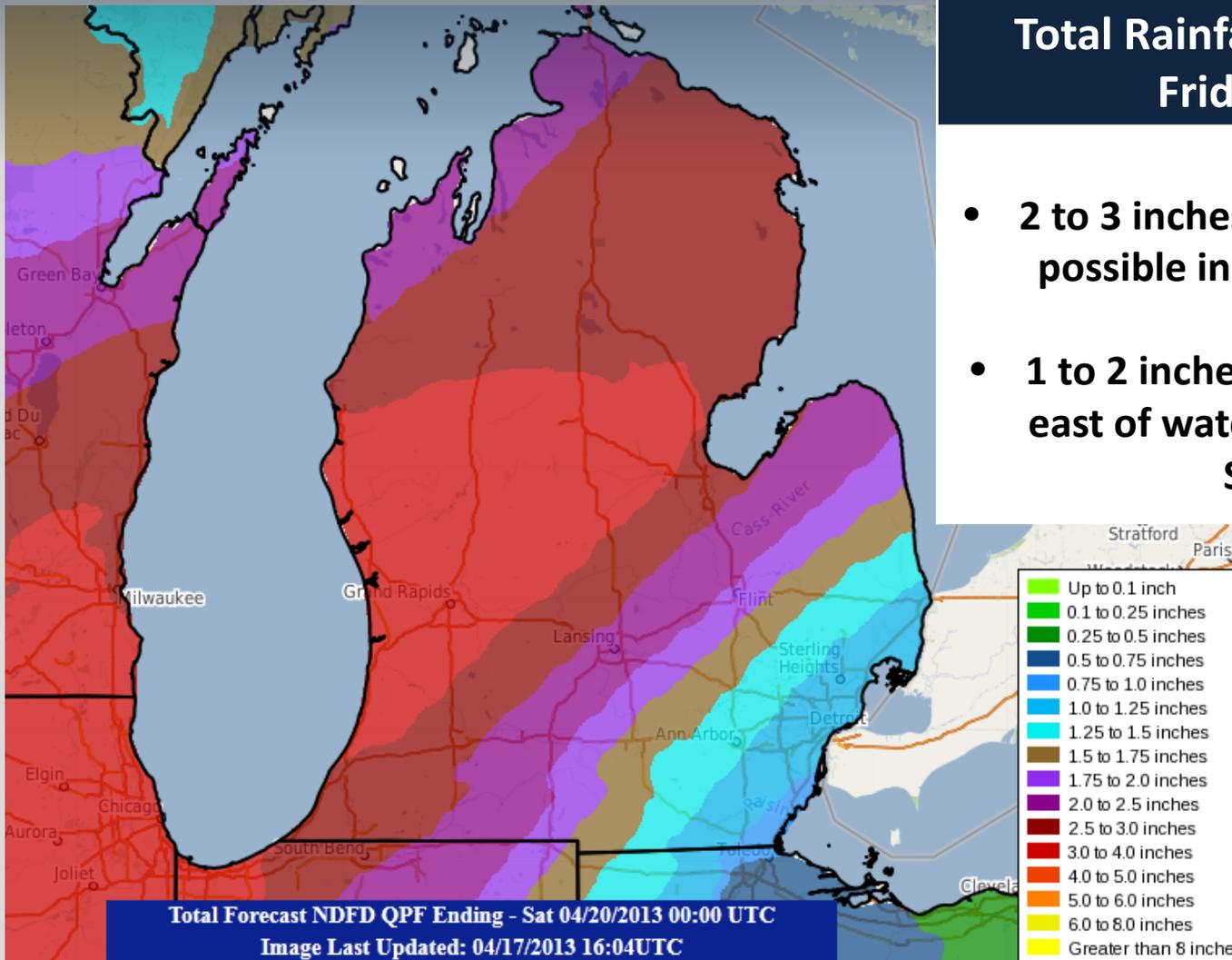


Frontal Positions Thursday Morning





Storm Total Rainfall



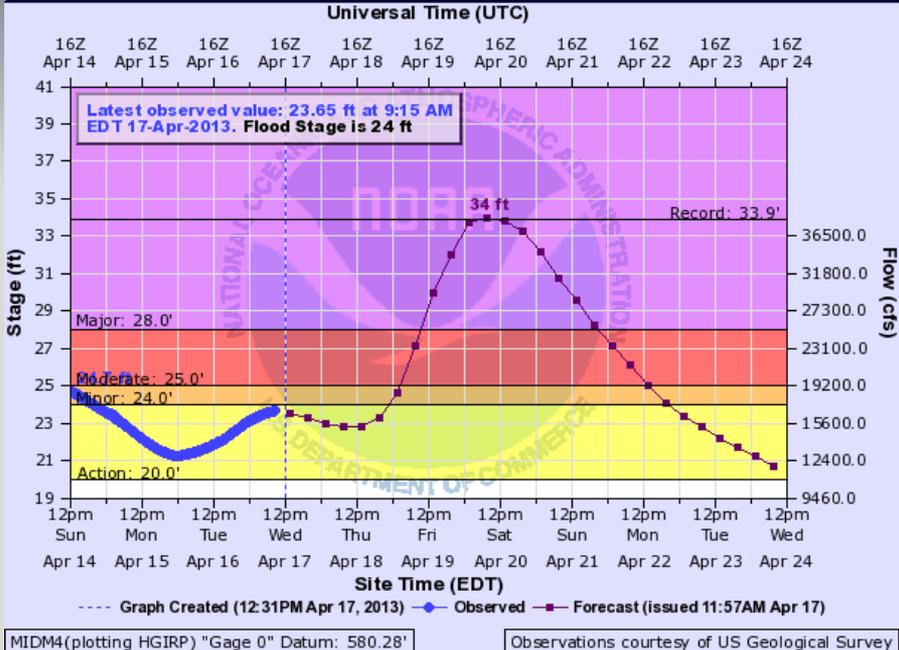
Total Rainfall Tonight through Friday Morning

- 2 to 3 inches, locally up to 4 inches, possible in the Flood Watch area.
- 1 to 2 inches possible to south and east of watch area over the rest of SE Michigan.



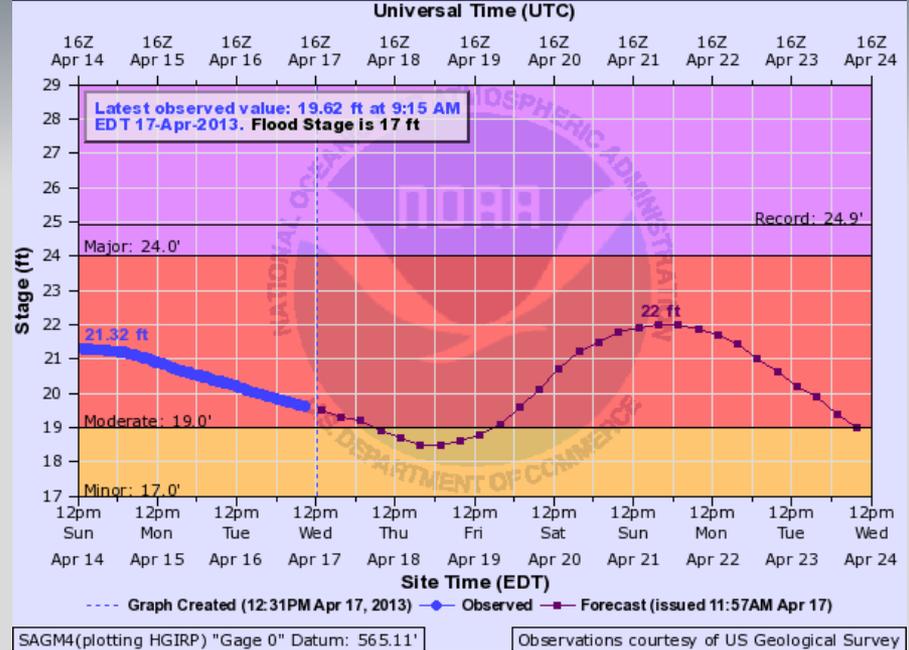
River Response

TITTABAWASSEE RIVER AT MIDLAND



Tittabawassee River at Midland

SAGINAW RIVER AT SAGINAW

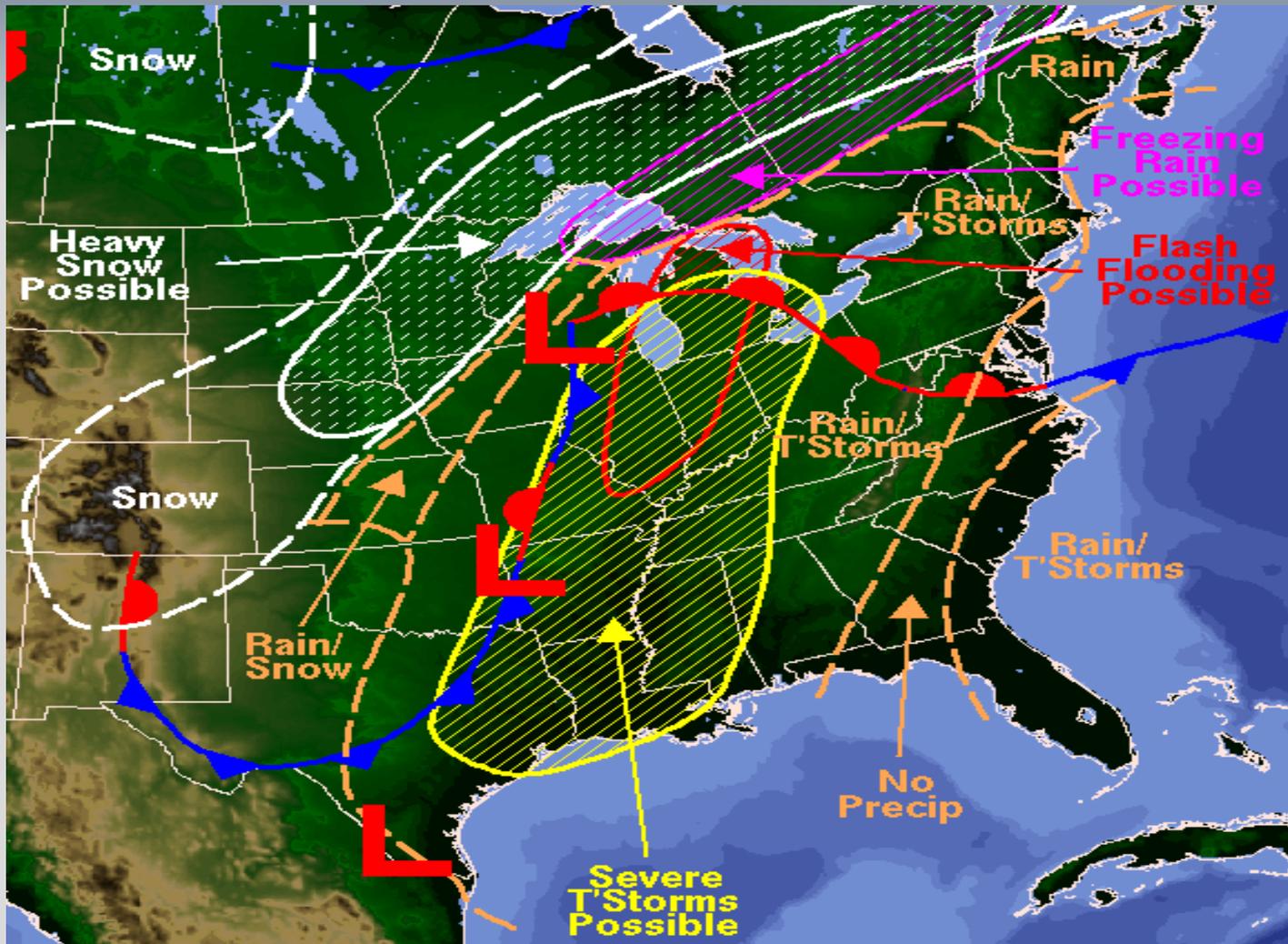


Saginaw River at Saginaw

- Near Record Flooding at Midland this weekend. Reaches Flood Stage Friday morning.
- Saginaw stays above flood stage and then goes back to moderate flooding through the weekend.



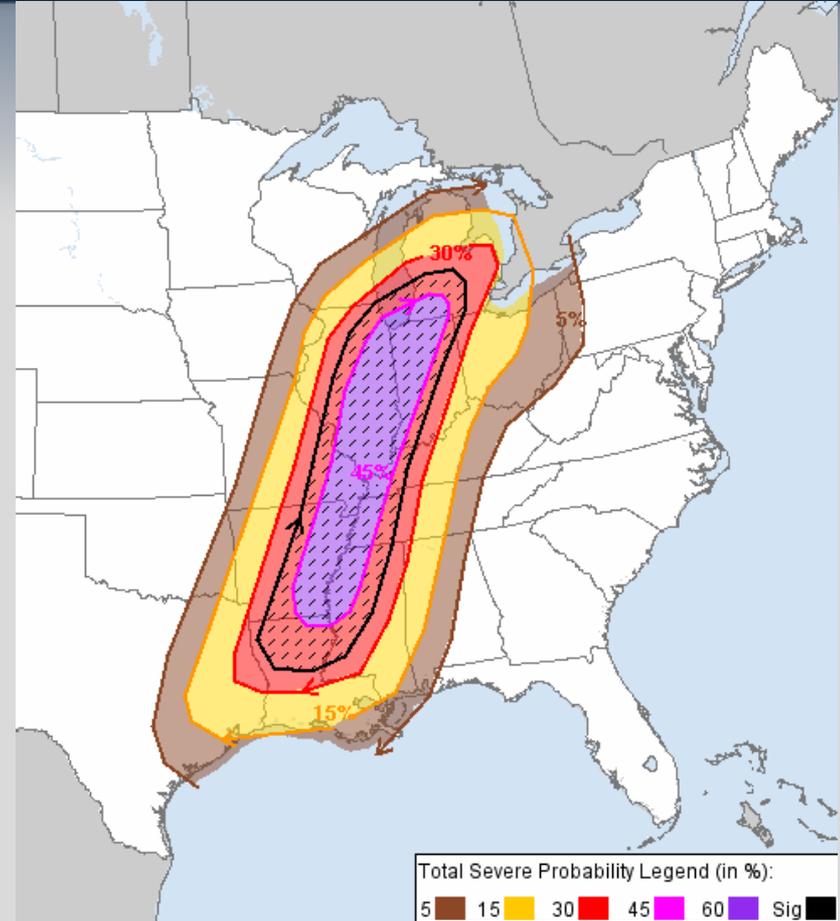
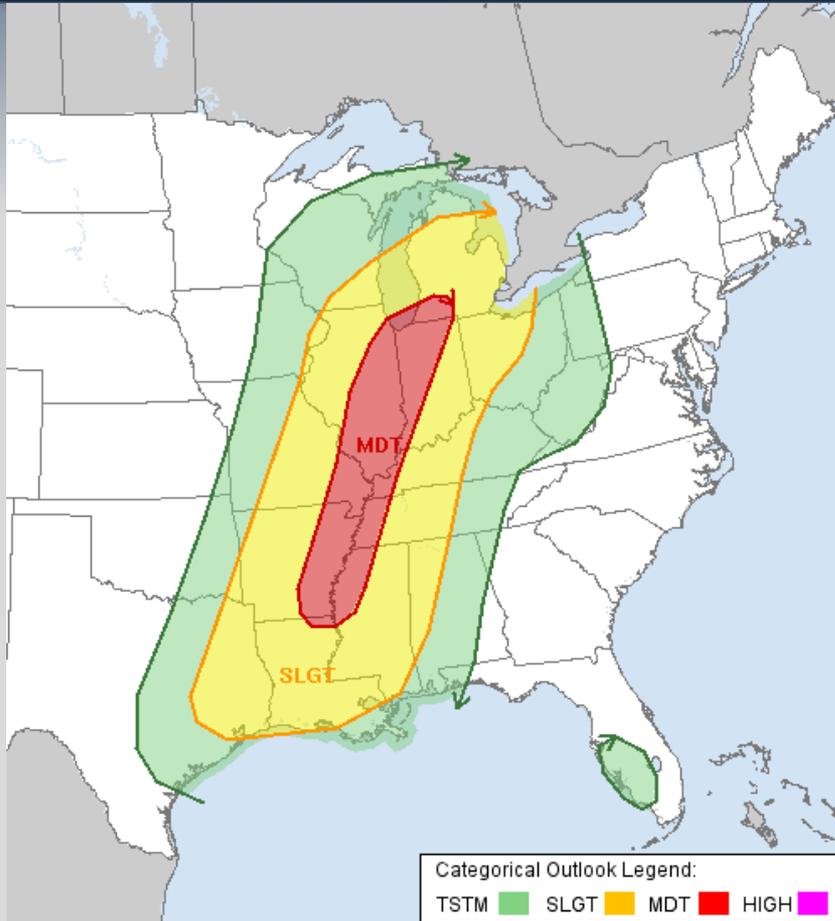
Thursday Hazard Composite



Weather Forecast for Thu, Apr 18, 2013, issued 4:54 AM EDT Wed, Apr 17, 2013
DOC/NOAA/NWS/NCEP/Weather Prediction Center
Prepared by McCreynolds based on WPC, SPC and NHC forecasts



Thursday Severe Potential



Potentially severe thunderstorms possible along and ahead of cold front Thursday into Thursday night



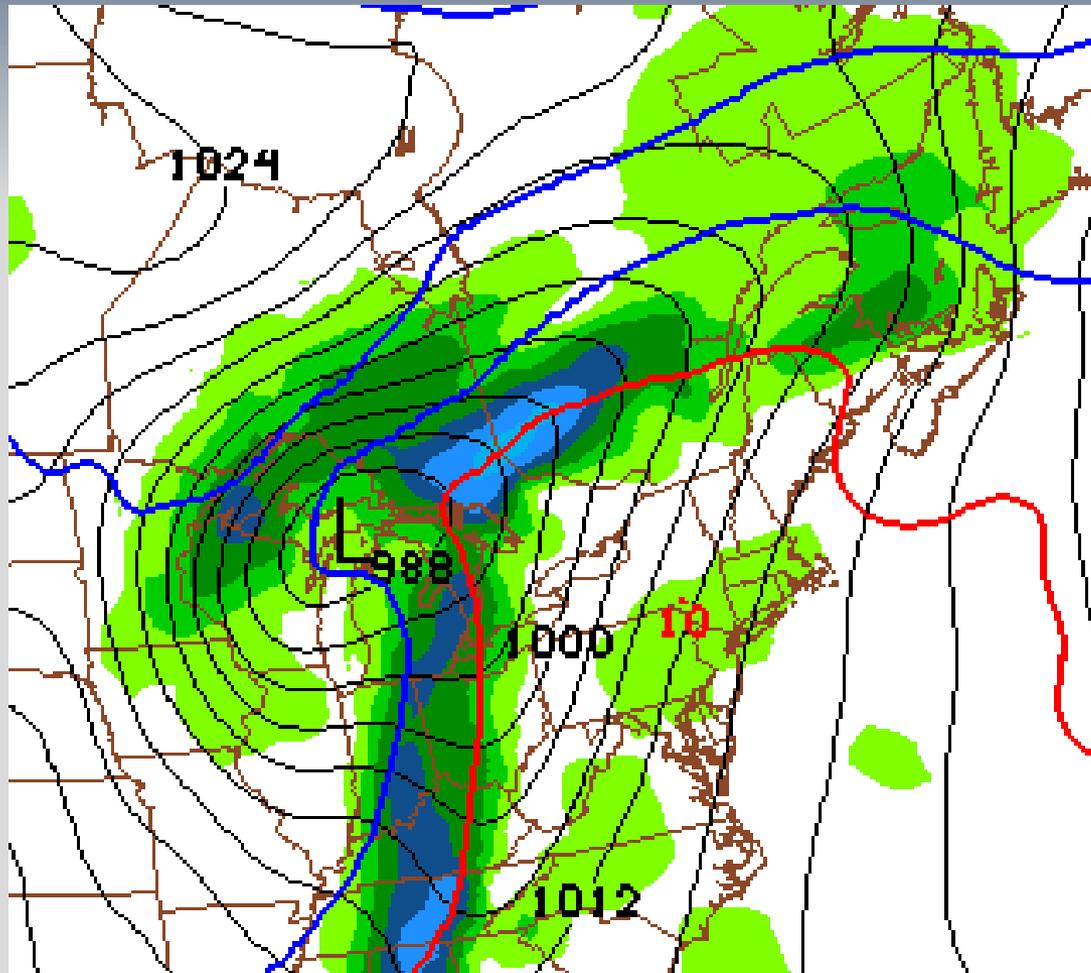
Thursday Severe Potential



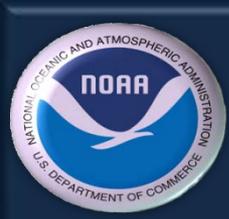
- Threats
 - Wind Gusts in excess of 70 mph
 - Marginal Severe Hail (1 inch in diameter)
 - Isolated Tornado
- Threat increases farther south
- Timing: 5 p.m. to just after midnight



Friday High Wind Potential



Westerly wind gusts of 45 mph or greater possible after the cold front moves through the region Friday.



Potential Impacts from Rainfall

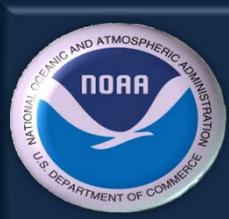


Road Conditions

- Ponding of water
- Low visibility
- Potential for flooded roads and road closures

Additional Potential Impacts

- River Flooding
- Countywide Areal Flooding – Low Areas, Streams, Creeks
- Most likely north of I-69
- Farther south, dependent on evolution of thunderstorms



Potential Impacts from Thunderstorms and Wind



Thursday's Thunderstorms	<ul style="list-style-type: none">• Downed trees and power lines from severe wind gusts• Hail• Isolated Tornadoes Possible		
Friday's Wind	<ul style="list-style-type: none">• Potential for a 50 to 60 mph wind gust as cold front passes Friday morning• Rest of Friday to have wind gust potential of 45 to 50 mph• Wet ground will not be able to support trees as well in the wind• Expect additional downed trees and associated power outages		
Power Outage Potential	High	Medium 	Low



Additional Information



Local Hazards Page

<http://www.weather.gov/detroit/svr.php>

Rainfall Probabilities

<http://www.crh.noaa.gov/dtx/ProbQPF.php>

Wind Probabilities

<http://www.crh.noaa.gov/dtx/?n=pwind>

Impact Based Warnings Experiment

http://www.crh.noaa.gov/crh/?n=2013_ibw_info

NWS Detroit/Pontiac, MI

<http://www.weather.gov/dtx>

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