



January 9, 2024  
5:23 AM

# Complex and Significant Storm Arrives Today

Complex storm will bring snow changing to rain, flooding, and strong winds this afternoon through tonight...

## Decision Support Briefing #4

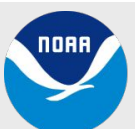
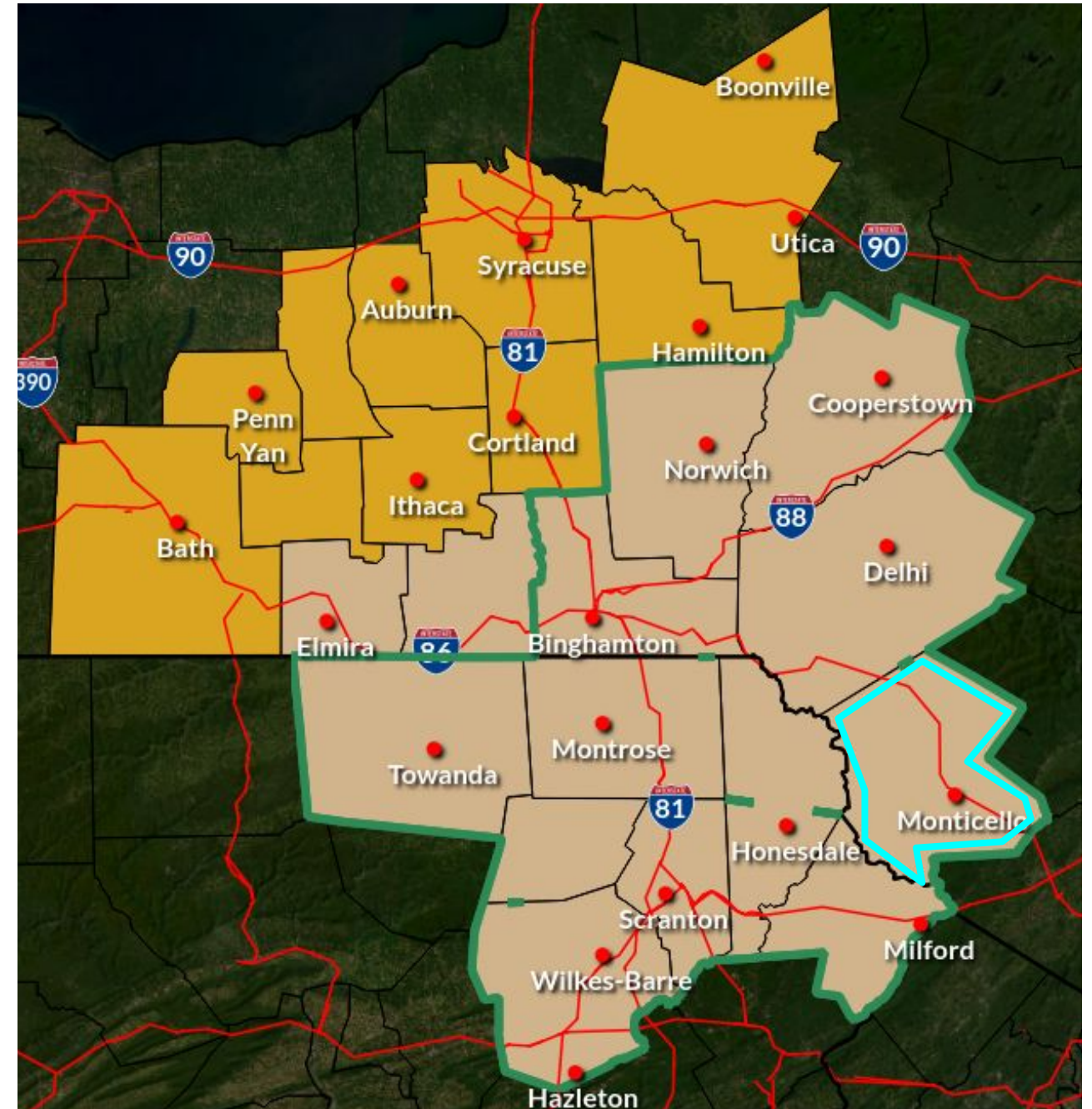
→ As of 5:00 AM Tuesday, January 9th

### Current Situation

- **High Wind Warning** in effect for portions of northern CNY from 1 PM this afternoon through 4 AM Wednesday.
- **Wind Advisory** in effect for portions of CNY, the Twin Tiers, Catskills, and NE PA from 1 PM this afternoon through 4 AM Wednesday.
- **Flood Watch** (outline) for NE PA, Catskills, portions of Central NY this afternoon through Wednesday afternoon.
- **Winter Weather Advisory** (outline) for higher elevations of Sullivan County, NY from Noon today through 8 PM this evening.

NEW

- ◆ High Wind Warning expanded into parts of the Finger Lakes Region.
- ◆ Winter Weather Advisory for higher elevations in Sullivan County, NY.



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

National Weather Service  
Binghamton, NY

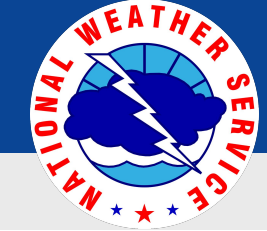


# Significant Storm Tuesday-Wednesday

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OVERVIEW	
<ul style="list-style-type: none"><li>A complex storm system moving into the Great Lakes will produce snow this afternoon, changing to locally heavy rain late this afternoon, with increasingly strong wind gusts heading into this evening and overnight. Rain and snow melt could result in river flooding lasting into Wednesday or Thursday.</li></ul>	
TIMING	<ul style="list-style-type: none"><li>Today through Wednesday (River flooding through Thursday?)</li></ul>
HAZARDS & IMPACTS	<ul style="list-style-type: none"><li>Heavy rain &amp; snow melt may lead to flooding.</li><li>Strong winds will down trees/wires and produce power outages.</li><li>Travel disruptions due to flooded roads, strong winds, wintry mix.</li></ul>
FORECASTING CHALLENGES	<ul style="list-style-type: none"><li>Could wintry precipitation at onset hold on longer than expected?</li><li>Do the strongest winds end up being confined to just the high terrain?</li></ul>
NWS ALERTS	<ul style="list-style-type: none"><li>High Wind Warnings, Wind Advisories, Flood Watches, Winter Weather Advisories. Monitor <a href="http://www.weather.gov/bgm">www.weather.gov/bgm</a> for latest warnings and advisories.</li></ul>



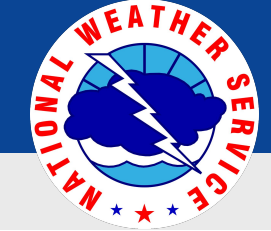


# Significant Storm Tuesday-Wednesday

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HAZARD	IMPACTS	LOCATION	TIMING
Heavy Rain + Snow Melt	Flooding of streets, poor drainage areas, small streams/creeks, and some rivers.	All locations. Highest confidence for heavy rain stretches from Northeast PA into the Catskills	Late Afternoon through Wednesday (some rivers into Thursday?)
Strong Winds	Downed trees and wires Power Outages	All locations, especially in the higher terrain of Central NY and Finger Lakes	Tuesday evening into Wednesday morning
Accumulating Snow	Messy Travel	All locations, but particularly the higher terrain of the Catskills	This afternoon, possibly into the early evening in the Catskills





# Summary of Greatest Impacts Tuesday-Wednesday

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All areas to be impacted by a broad, complex strong storm system

All areas; highest risk NE PA into the Catskills

Heavy Rain

None

Limited

Elevated

Significant

Extreme

All areas; especially higher terrain and Finger Lakes

Strong Winds

None

Limited

Elevated

Significant

Extreme

All areas

Snow/ Wintry  
Mix

None

Limited

Elevated

Significant

Extreme

This outlook depicts magnitude of potential impacts to local travel and infrastructure from rain, wind and wintry precipitation.



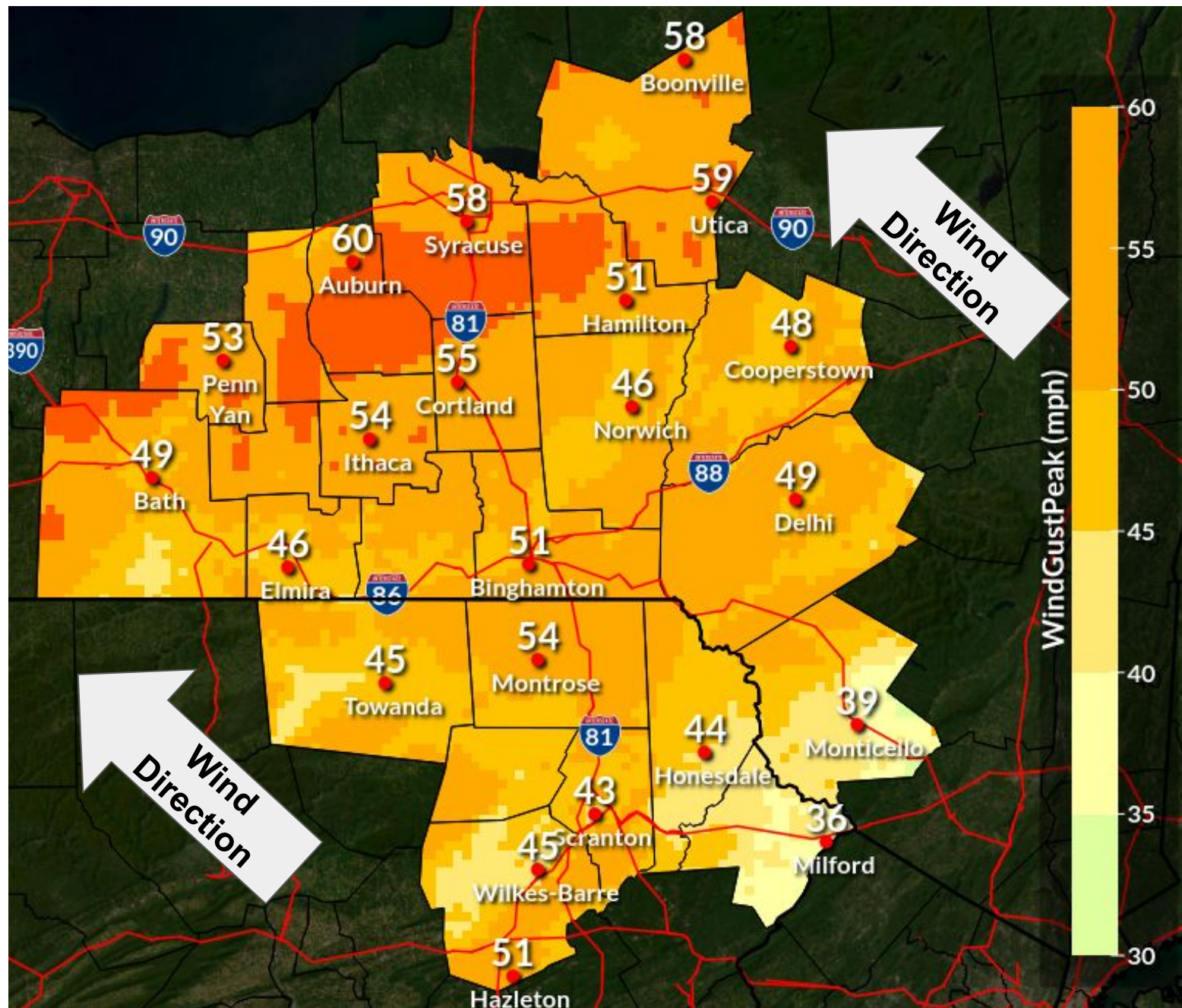




# Peak Wind Gusts

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This Afternoon through Late Tuesday Night



- Southeast Winds with peak gusts of 45 to 60 mph are expected Tuesday Afternoon into Tuesday Night, diminishing after Midnight.
  - The strongest winds will be in higher elevation areas and north/west-facing slopes.
- Downed trees/branches/wires could lead to at least scattered power outages.
  - Wet soil may enhance risk of downed trees.
- Travel disruptions possible, especially for high profile vehicles

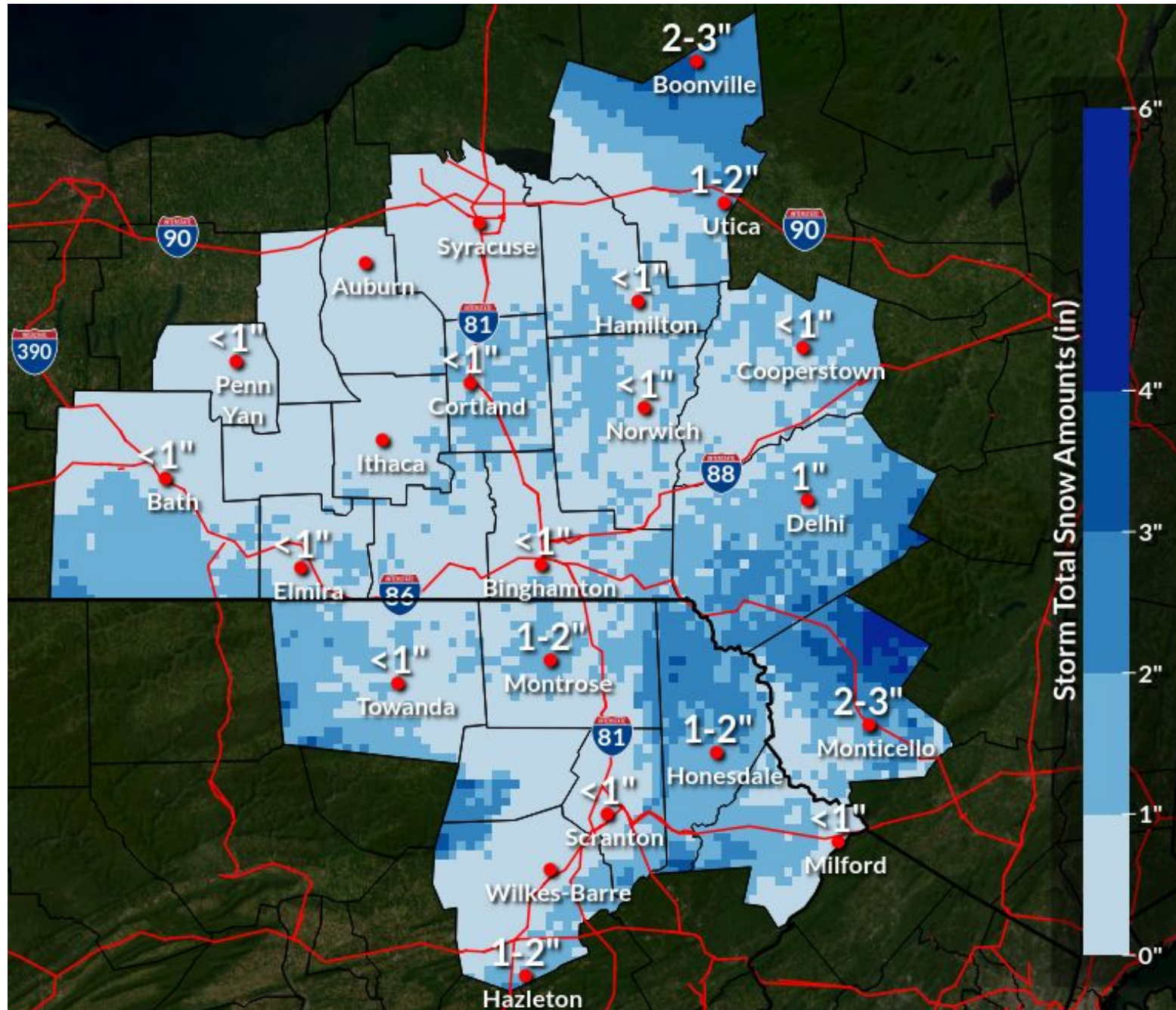






# Today: Snow Develops and Changes to Rain

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- Snow will develop this afternoon, then mix with rain before changing to all rain by evening.
- Map shows expected new snowfall, though most of it will end up melting.
- Slick roads possible (mainly higher elevations) until the changeover.
- NOTE: Areas of fog possible are also possible this afternoon and evening due to rising temperatures and moist air on top of a melting snowpack.

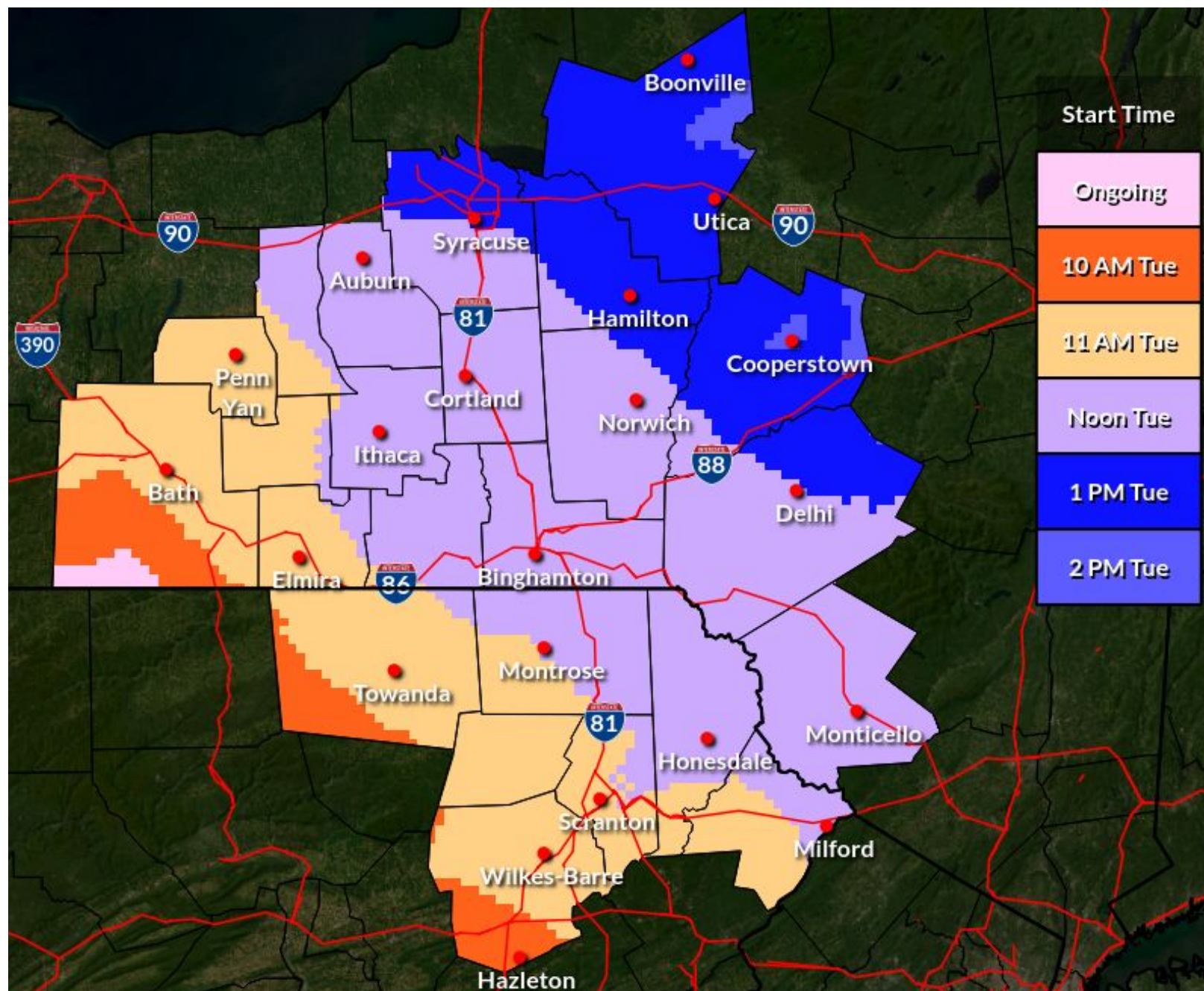






# Approximate Onset Time of Precipitation

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- Precipitation will move in from the south and west, and will mainly start as snow.
- Snow-to-Rain Changeover time will depend on elevation and can't be mapped well.
- **Generally...**
  - Most lower elevations change over to rain by 3-4 PM.
  - Higher elevations 5 PM to 7 PM.

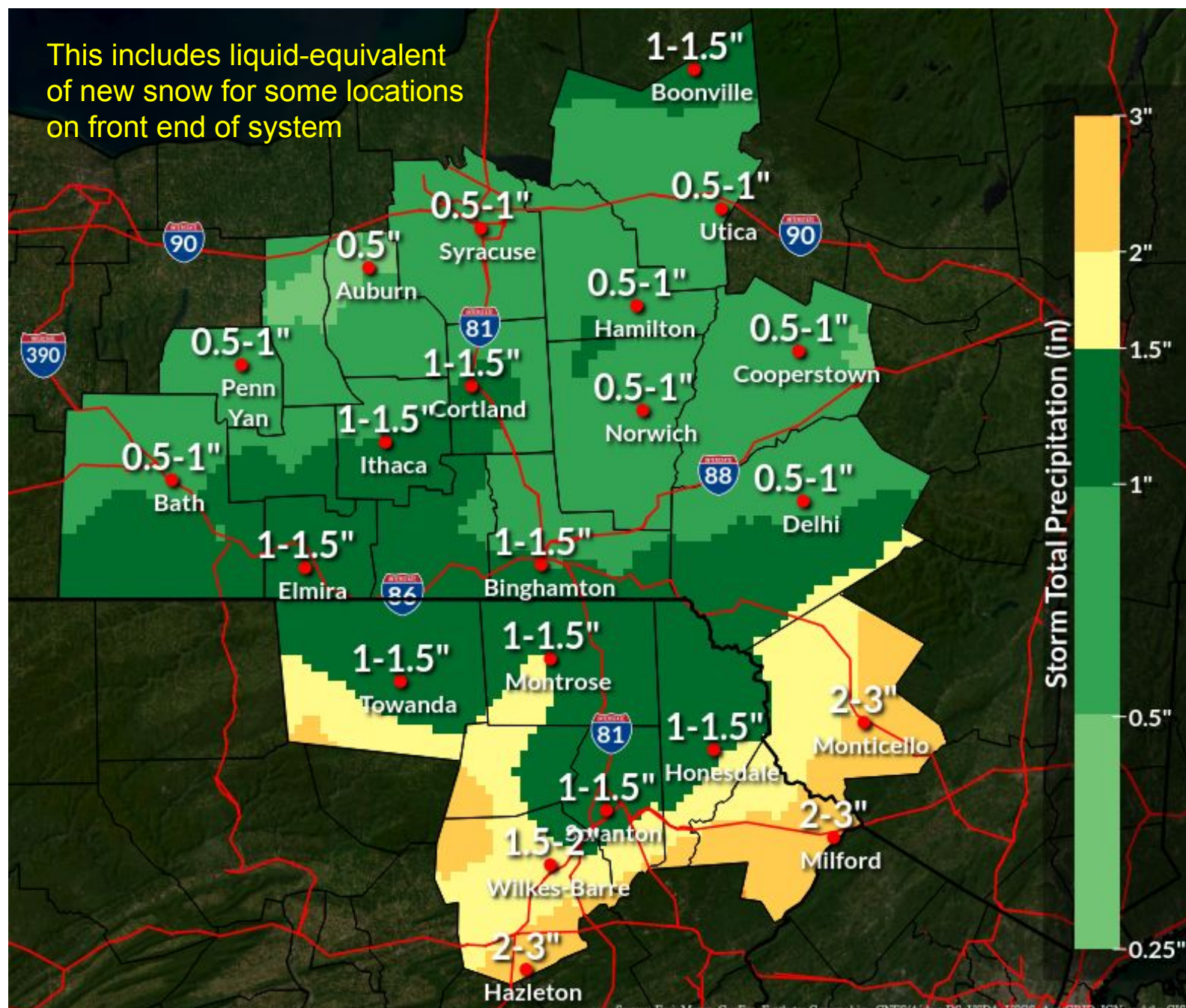




# Storm Total Rainfall Today-Wednesday

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This includes liquid-equivalent  
of new snow for some locations  
on front end of system



- Heavy rain combined with snowmelt can lead to flooding of streets, poor drainage areas, small streams and creeks.
- Area rivers will need to be monitored with the combined heavy rain and snow melt, but it is too early to predict exact river levels for specific points.
- Rain expected to be heaviest from late Tuesday through early Wednesday morning.

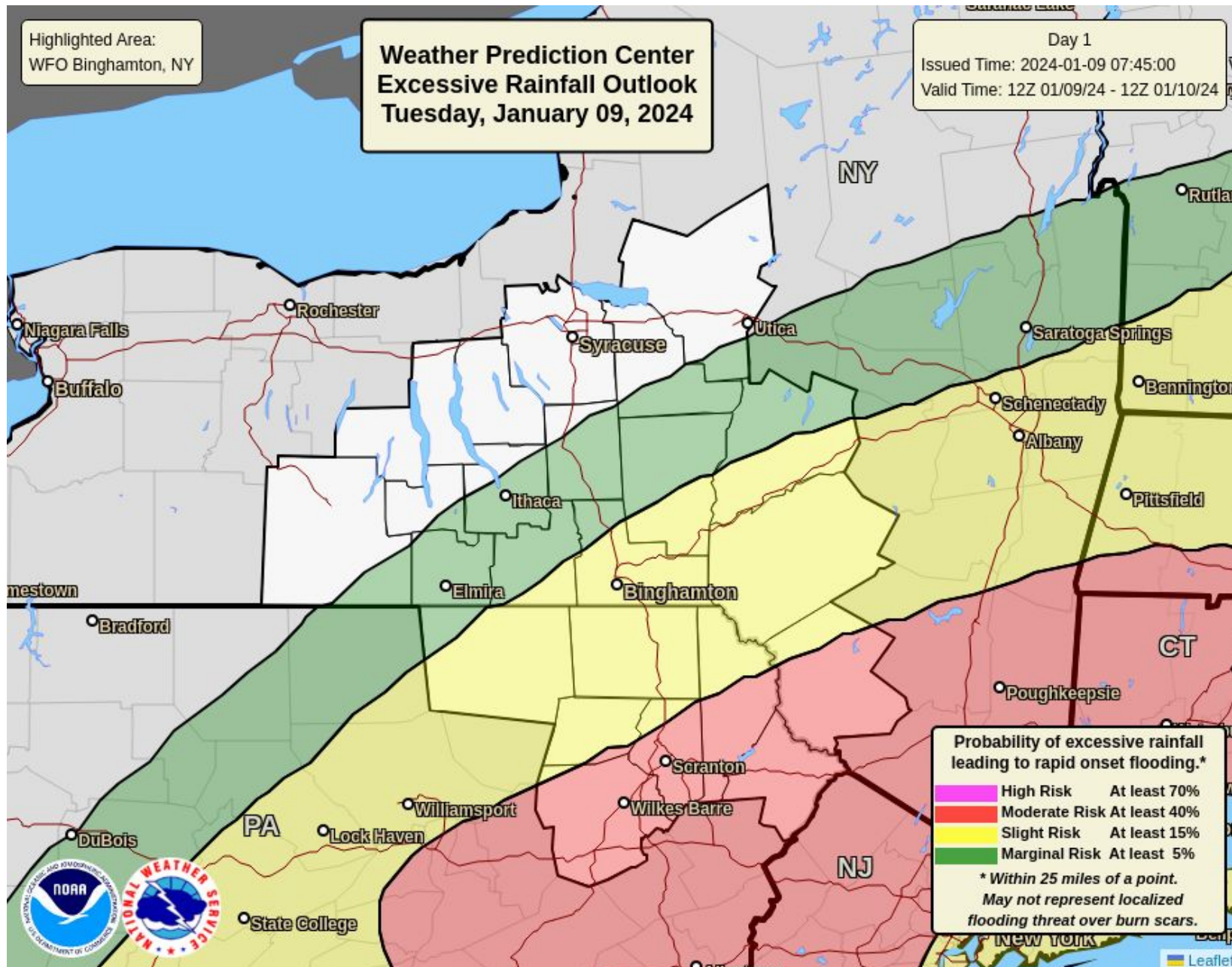






# Small Stream/Flash Flood Potential Tonight

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- Combined potential of snowmelt and rain may pose risk for small stream/urban/flash flooding tonight.
- Monitor forecast for updates, including [WPC Excessive Rainfall Forecast display](#).

**MARGINAL RISK:**  
5-14% Risk of Excessive Rainfall  
Within 25 Miles of a Point

**SLIGHT RISK:**  
At least 15% Risk of Excessive  
Rainfall Within 25 Miles of a Point

**MODERATE RISK:**  
At least 40% Risk of Excessive  
Rainfall Within 25 Miles of a Point



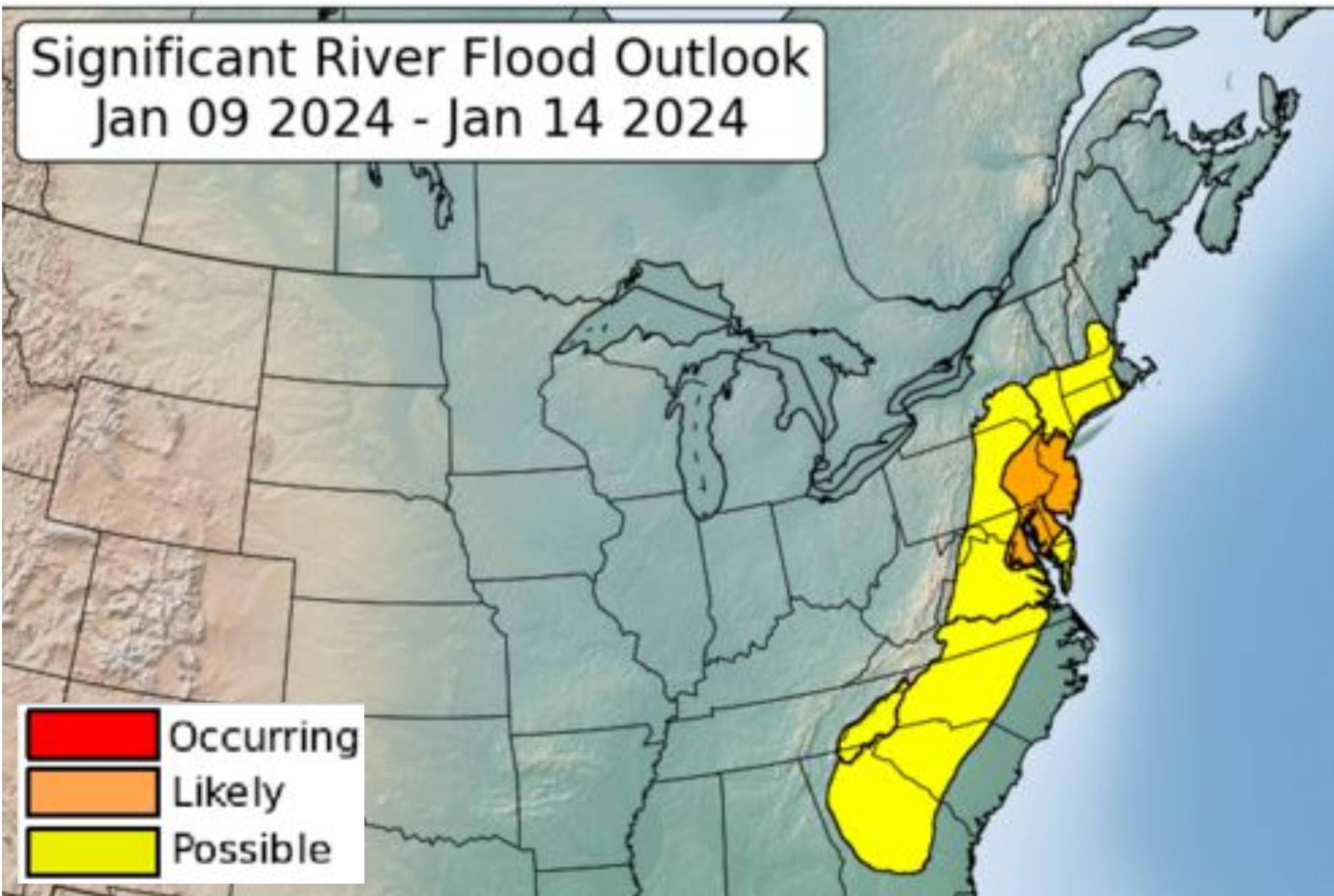




# River Flood Outlook Tuesday Night-Thursday

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Significant River Flood Outlook  
Jan 09 2024 - Jan 14 2024



- **River flooding is possible Tuesday night into Thursday due to heavy rain and snow melt.**
- **Snow melt expected as temperatures rise into the upper-40s Tuesday night.**



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National Weather Service  
Binghamton, NY

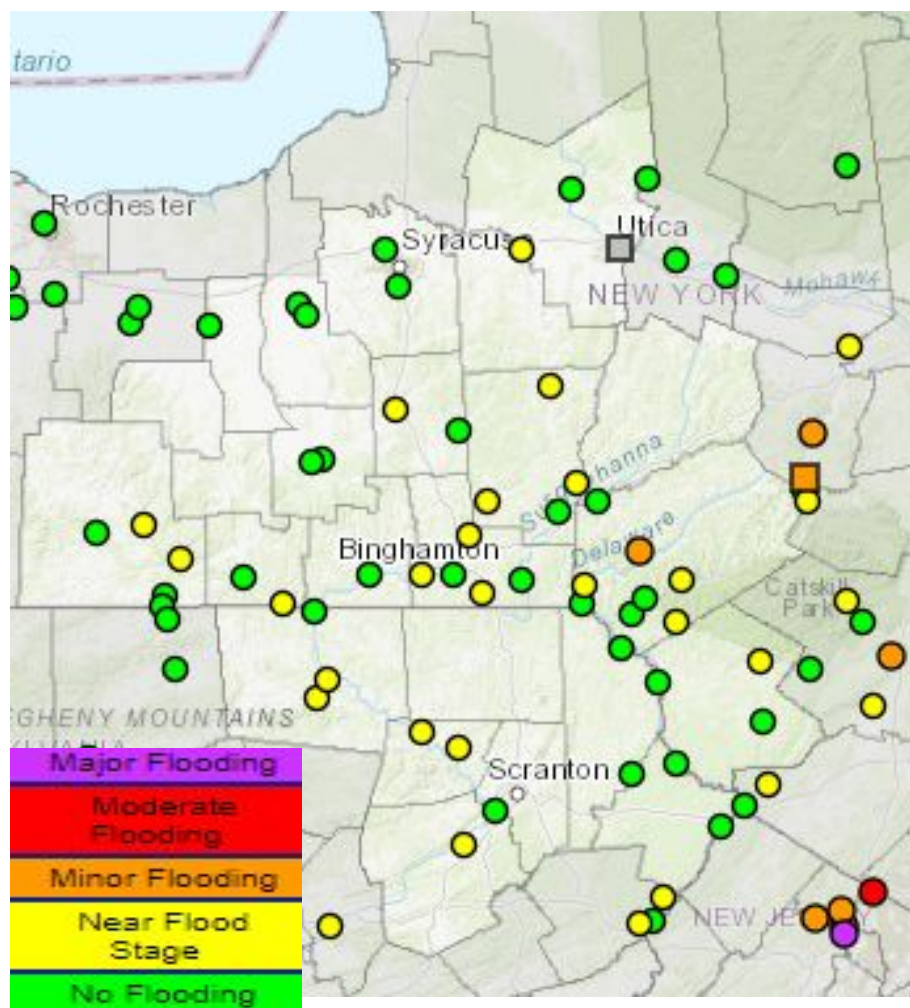




# River Forecasts and Modeling

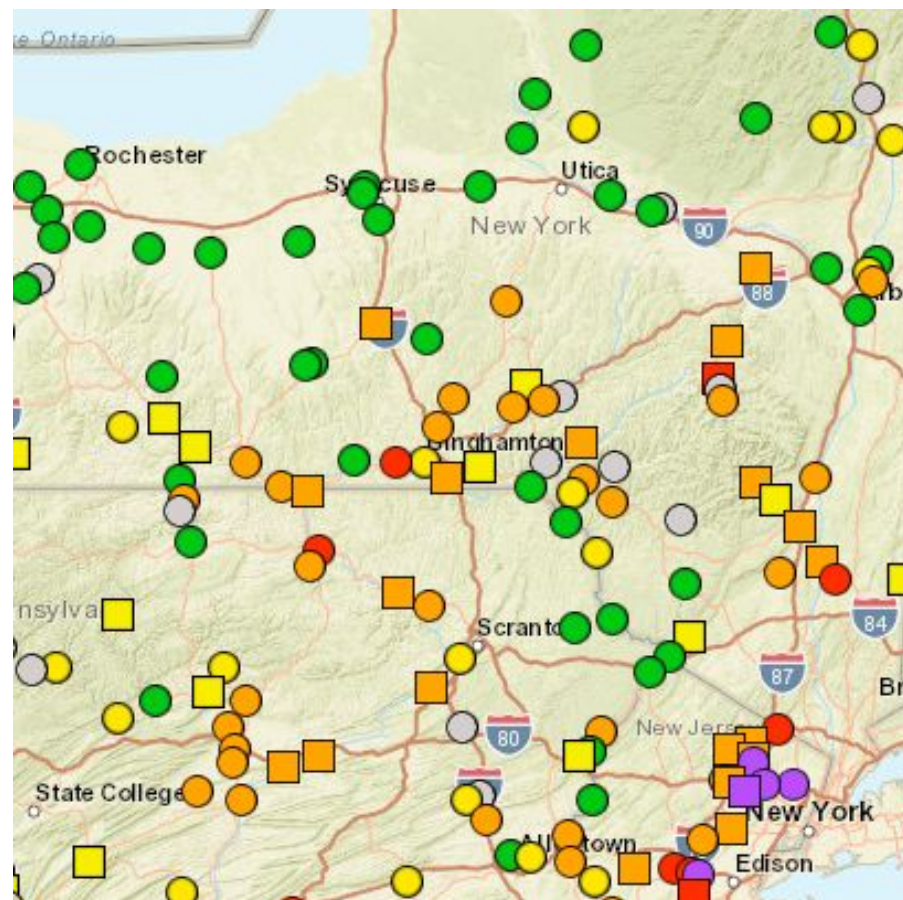
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Many gauge sites to go to Action Stage, a few may reach minor flood stage.

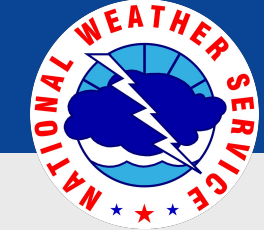


MODELS: [NAEFS River Ensembles](#) through many days

Chance of Exceedance		
30%	Level	70%
	Action	
	Minor Flood	
	Moderate Flood	
	Major Flood	
= less than 30% chance of reaching Action level		



- River flooding is possible late tonight into Thursday due to heavy rain and snow melt.
  - Snow melt expected as temperatures rise well into the 40's Tuesday night.
- (Another storm this weekend may pose additional issues)



# Contact and Next Briefing Information

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## Briefing Webpage

→ <https://www.weather.gov/bgm/briefingMain>



## Next Briefings

→ This is likely the final briefing for this event.

## Disclaimer

- Information contained in this briefing is time-sensitive
- Do Not Use After 4:00 PM Tuesday, January 9th



## Contact Information

### Web

→ [www.weather.gov/bgm](http://www.weather.gov/bgm)

### Phone

→ (607) 729-1597

### Email

→ [bgm.stormreport@noaa.gov](mailto:bgm.stormreport@noaa.gov)

### Facebook

→ <https://www.facebook.com/NWSBinghamton/>

### Twitter

→ <https://twitter.com/NWSBinghamton>

