

# DAILY DART

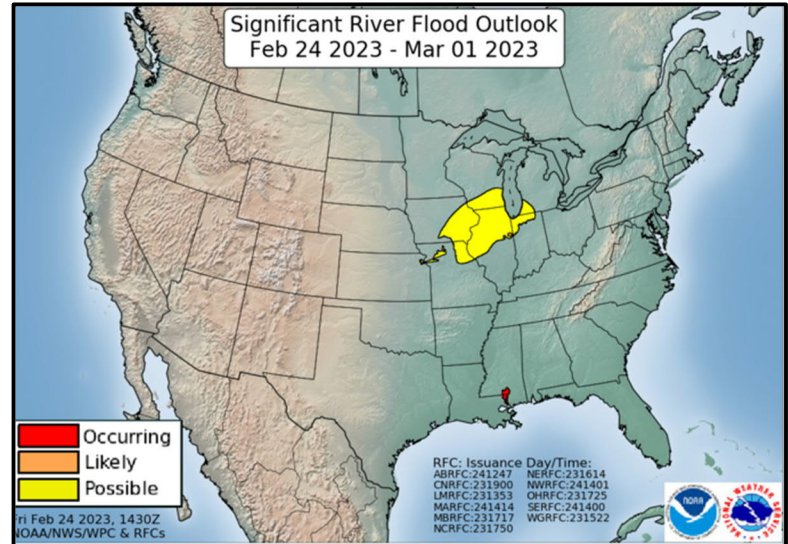
WSP USA INSPECTION SERVICES DISASTER AWARENESS REPORT

February 24, 2023

## 2023 Spring Flood Outlook

### Red River

- The third of four 2023 spring flood outlooks is released for the Red River and Devils Lake basins.
- National Weather Service Grand Forks says Mother Nature has been a bit more active since the last outlook two weeks ago.
- That has resulted in increasing chances of minor flooding with a few locations increasing their chances for moderate flooding.
- The threat for major flooding remains very low.
- The cool and potentially active weather pattern is forecast to continue for the end of February and into March.



### Mississippi River

- The second of three spring snowmelt flood outlooks from the National Weather Service has been released, and it includes some significant changes.
- The outlook, issued by individual NWS offices that serve eastern Iowa, showed that the probability of flooding occurring on the Mississippi River has notably increased, pushing it into a much above normal category.
- Some tributary rivers to the Mississippi, which are any other river in eastern Iowa, showed a very slight increase in risk for flooding but maintained near normal spring flood risk.
- The most significant factor that caused the jump in flood risk along the Mississippi River has been ongoing precipitation across the region, especially the continued building of the snowpack to our north in upstream drainage areas. That's also why the risk for tributary rivers has only increased slightly; the snowpack in Iowa is running below normal, easing the risk for local rivers.
- The snowpack to our north has increased, with nearly the entire state of Minnesota with at least 8 inches of snow on the ground, with some spots reaching 20 inches or more (note: this outlook does not have the entirety of this week's storm accounted for). This means there are broad areas of the Mississippi's watershed where 4 to over 10 inches of liquid water equivalent is locked up in that frozen snow and ice, waiting to melt and run into the river.
- The timing and speed of the snowmelt this spring will be critical for the severity of any flooding that could take place.
- A rapid snowmelt, especially if paired with additional rainfall, would be the worst-case scenario. A more leisurely melt would reduce the risk of high-end flooding but could still cause minor flooding given the amount of water locked in that snowpack.

1

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## Missouri River Basin

- The spring river flood risk is below normal to normal for the next 90 days for most of the basins across the immediate region, primarily owing to the dry antecedent conditions and below normal river levels heading into winter.
- The flood risk has increased slightly over the last outlook due to recent heavy precipitation events.
- The highest flood risks are found through much of the Vermillion River, lower reaches of the Big Sioux and portions of the James, especially downstream from the current axis of highest snow cover.
- Lower probability scenarios of significant additional snowfall, a rapid snowmelt, and/or a heavy rain event would increase the flood risk further.
- Ice jams may also result in more localized flooding. Urban street flooding may occur in locations with blocked storm drains.
- The final spring flood outlook for 2023 will be issued by the NWS on March 9.

## Joint Preliminary Damage Assessments

State	Event	Number of Counties for IA		Start-End
		Requested	Completed	
	N/A			

## Pending Individual Assistance Declaration Request

State	Event	Date Submitted	Approved/Denied /Pending	Number of Counties/Tribes
WV	Severe Storms, Flooding, Landslides, and Mudslides (Appeal)	1/27/2023	Pending	2 Counties
TX	Severe Storms & Tornadoes Jan 24, 2023	2/7/2023	Pending	4 Counties

## WSP USA Inspection Services Active Disasters

Disaster Number and State	Disaster Type	Number of Counties Declared	Days Since Launch	Registration Deadline
4671 PR	Hurricane Fiona	78 Municipalities	154	11/21/2022
4673 FL	Hurricane Ian	26 Counties	145	1/12/2023

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Disaster Number and State	Disaster Type	Number of Counties Declared	Days Since Launch	Registration Deadline
4677 SC	Hurricane Ian	3 Counties	91	1/23/2023

## WSP USA INSPECTION SERVICES ACTIVITY

