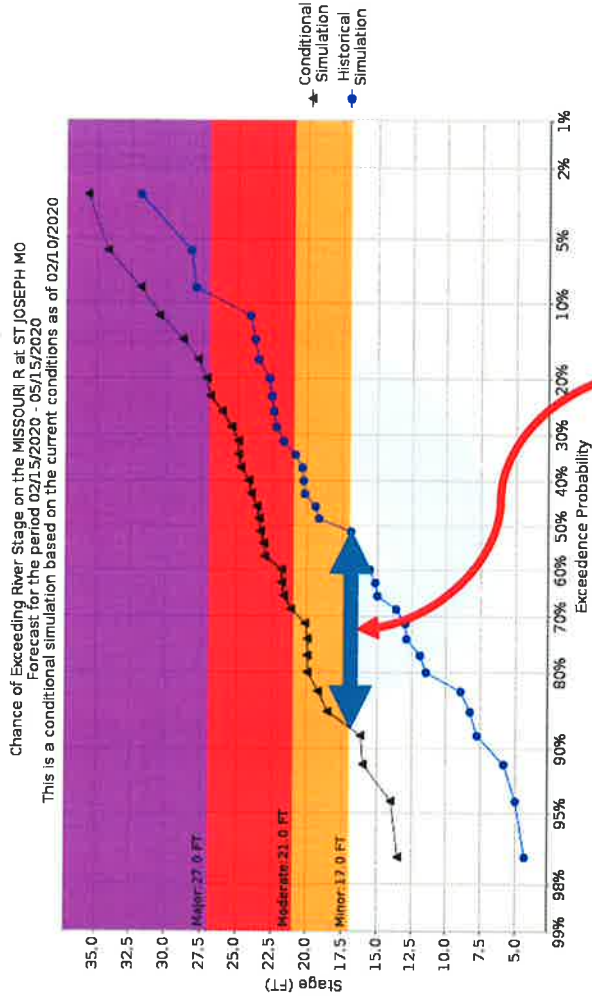
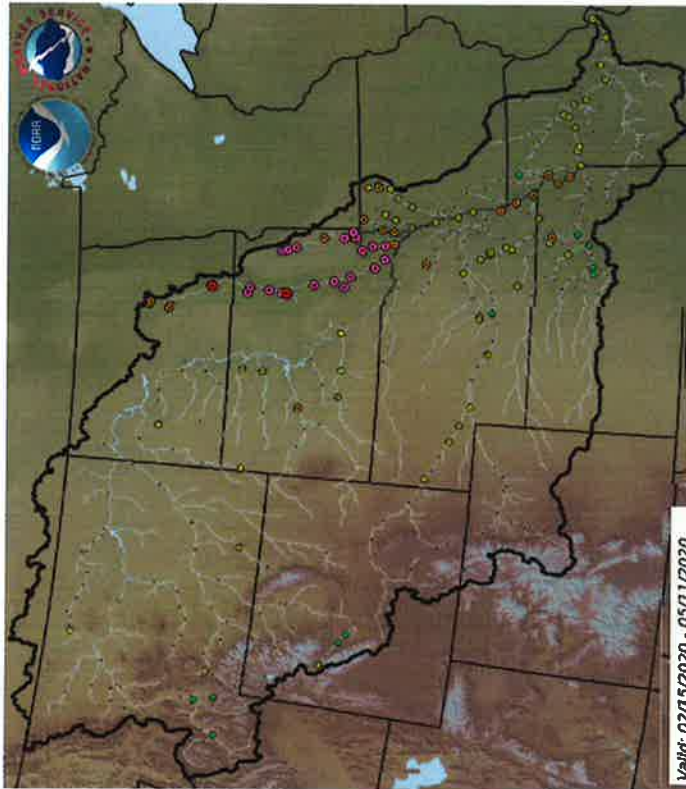


# MISSOURI BASIN: CHANCE OF REACHING FLOOD STAGE IN 2020 AS COMPARED TO HISTORICAL



**37 percent increase in chance to reach flood stage during next 3 months**



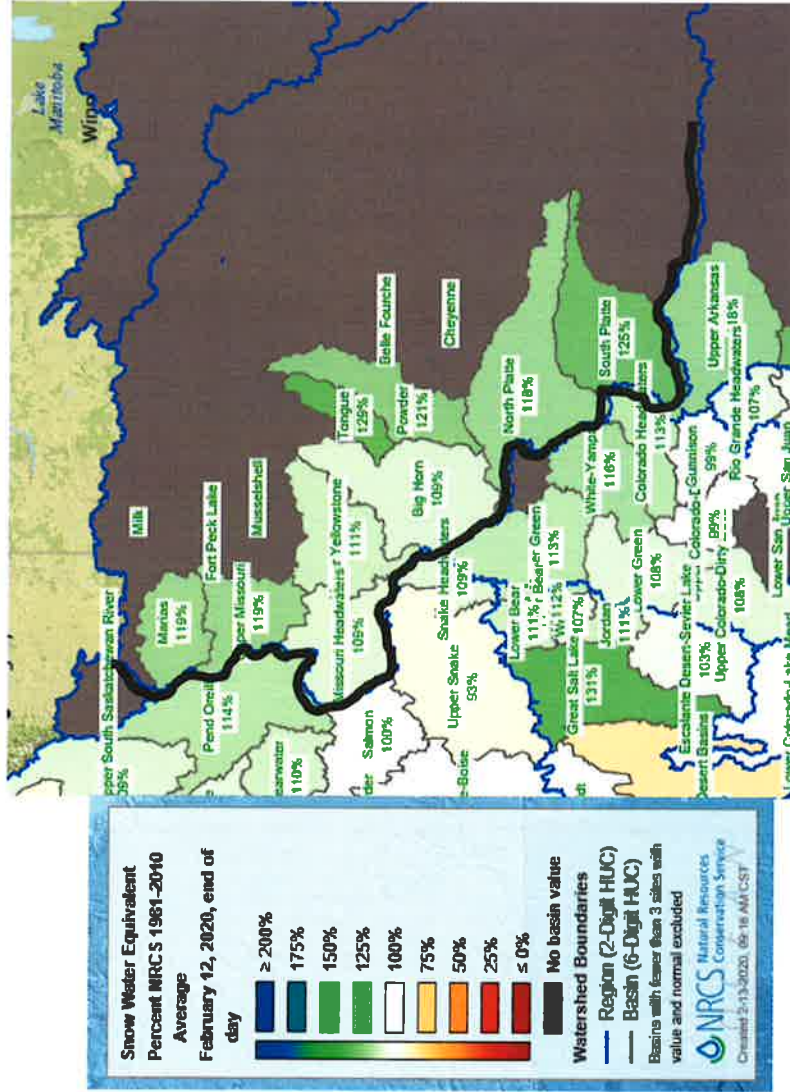
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# MISSOURI BASIN:

Mountain Snowpack As of 12 February 2020

Mountain snowpack running just slightly above average.

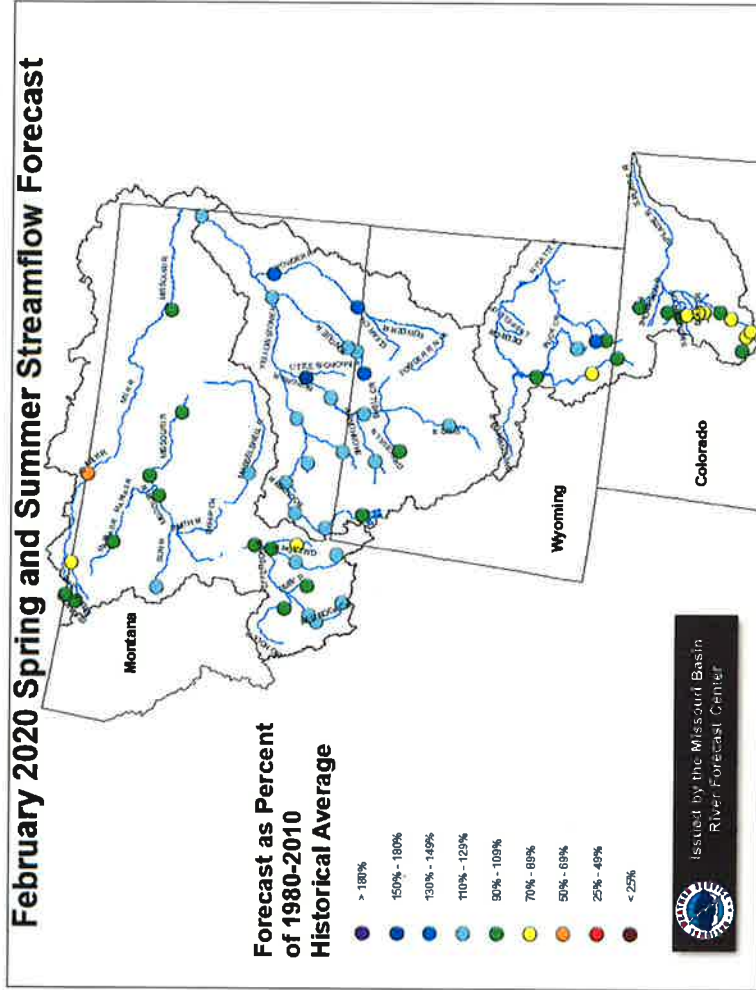


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# MISSOURI BASIN:

## Mountain Runoff Volume April-September

### February 2020 Spring and Summer Streamflow Forecast



Mountain runoff volume projected to be near normal

- Upper Missouri above Ft. Peck: 108%
- Yellowstone: 126%
- North Platte: 106%
- South Platte: 95%

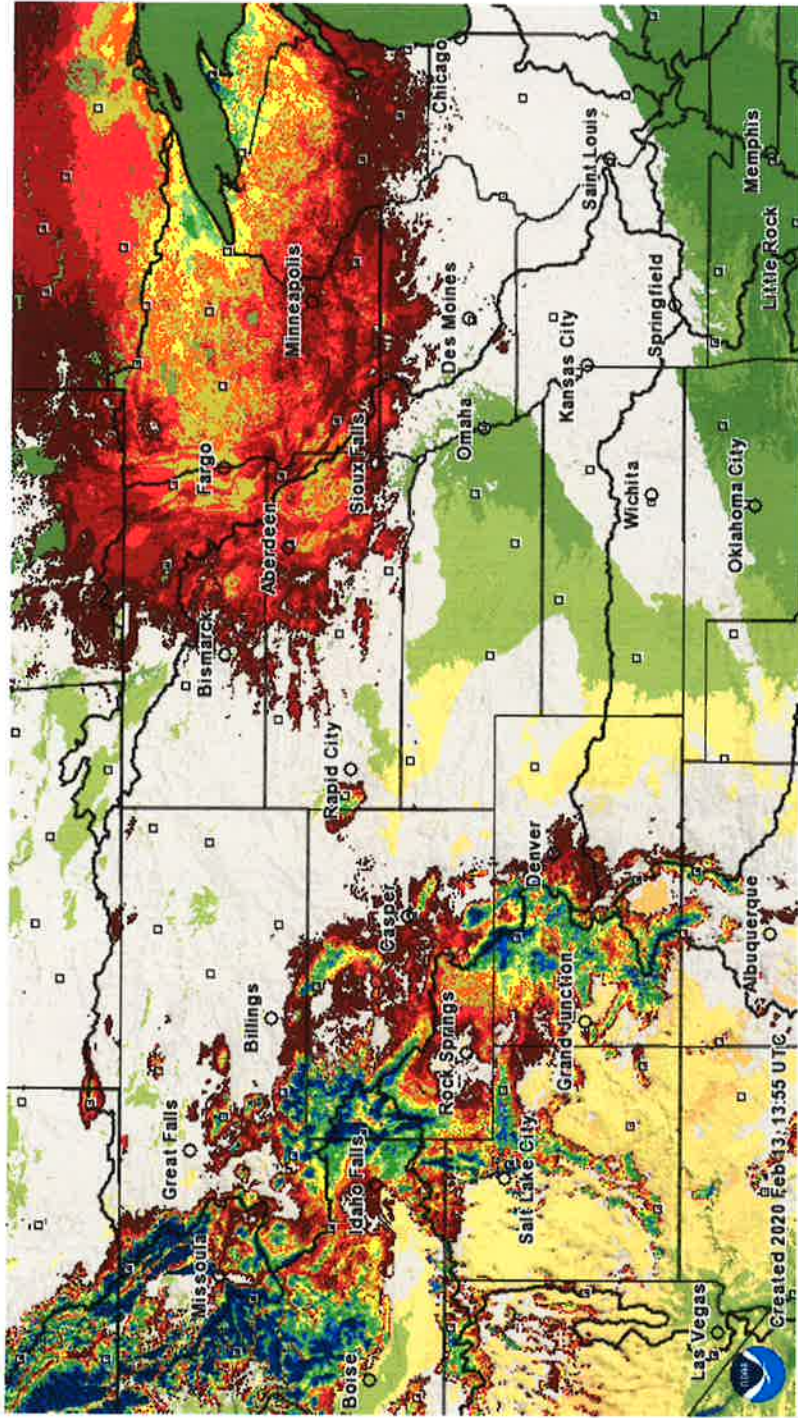


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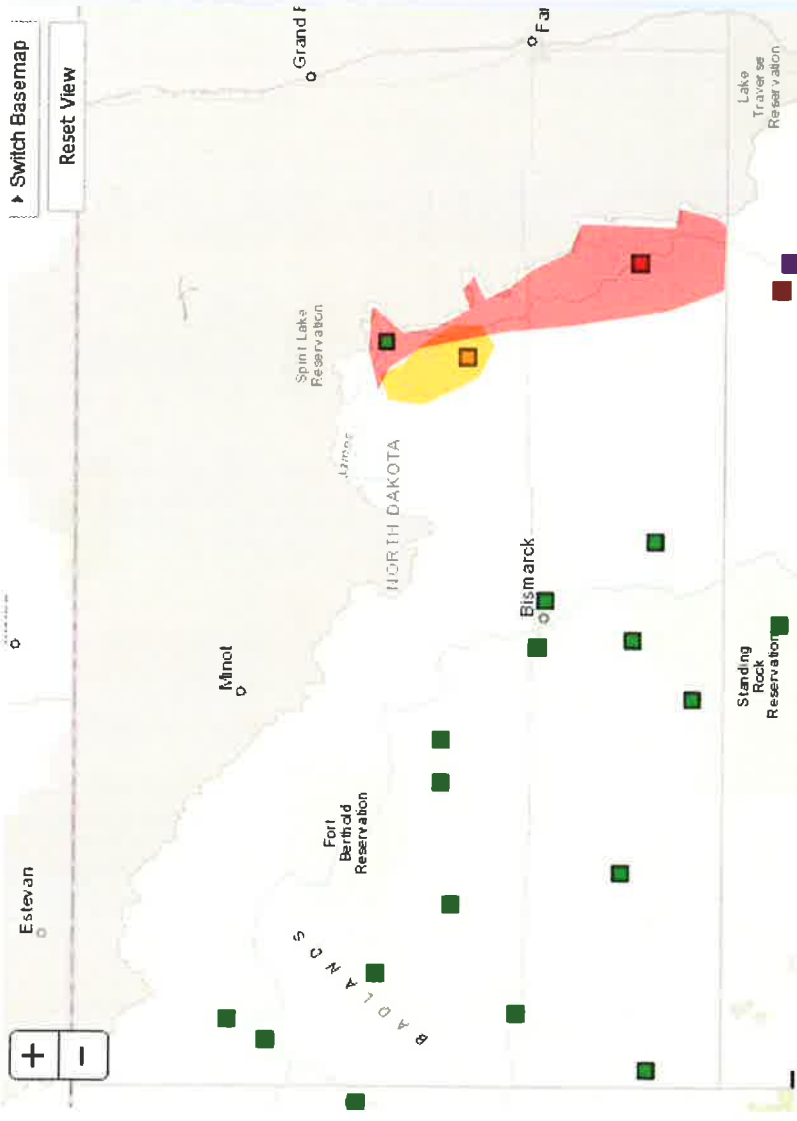
# MISSOURI BASIN: Plains Snowpack as of 13 February 2020



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# MISSOURI BASIN:

## Flood Potential Outlook North Dakota

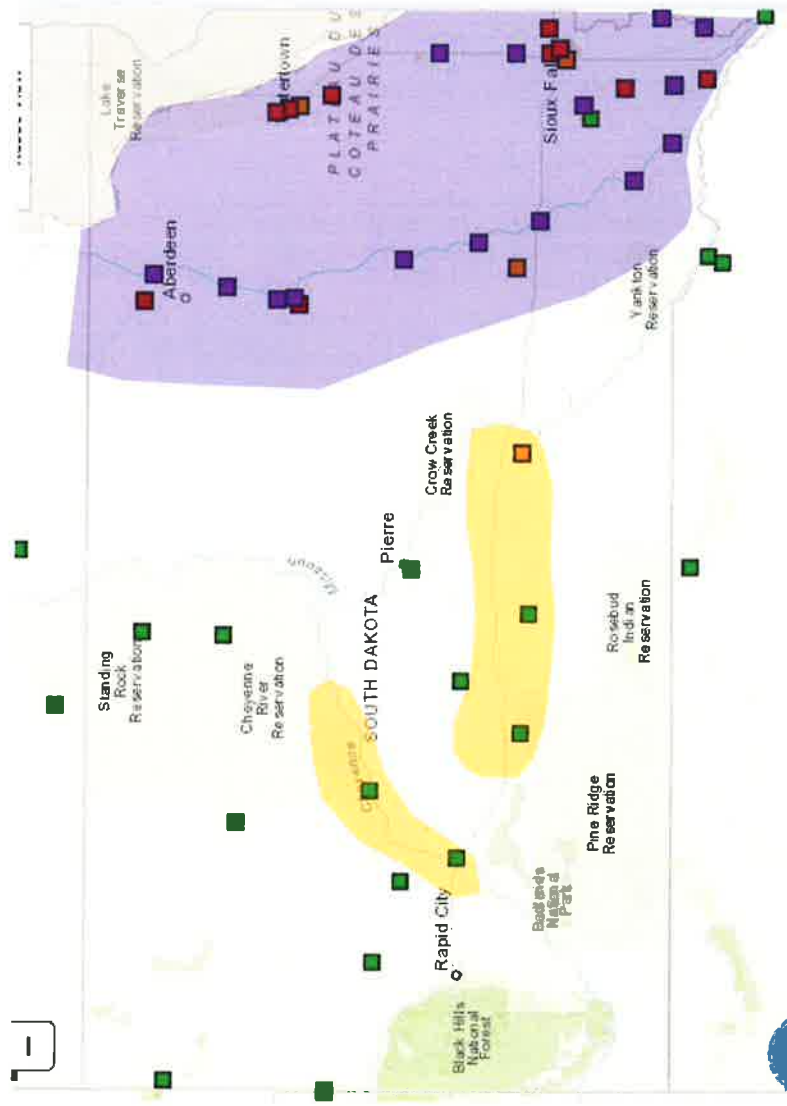


**Pipestem Creek: Minor**

**James River: Moderate**



# MISSOURI BASIN: Flood Potential Outlook South Dakota



**James River: major**

**Vermillion River: major**

**White River: minor**

**Cheyenne River: minor**

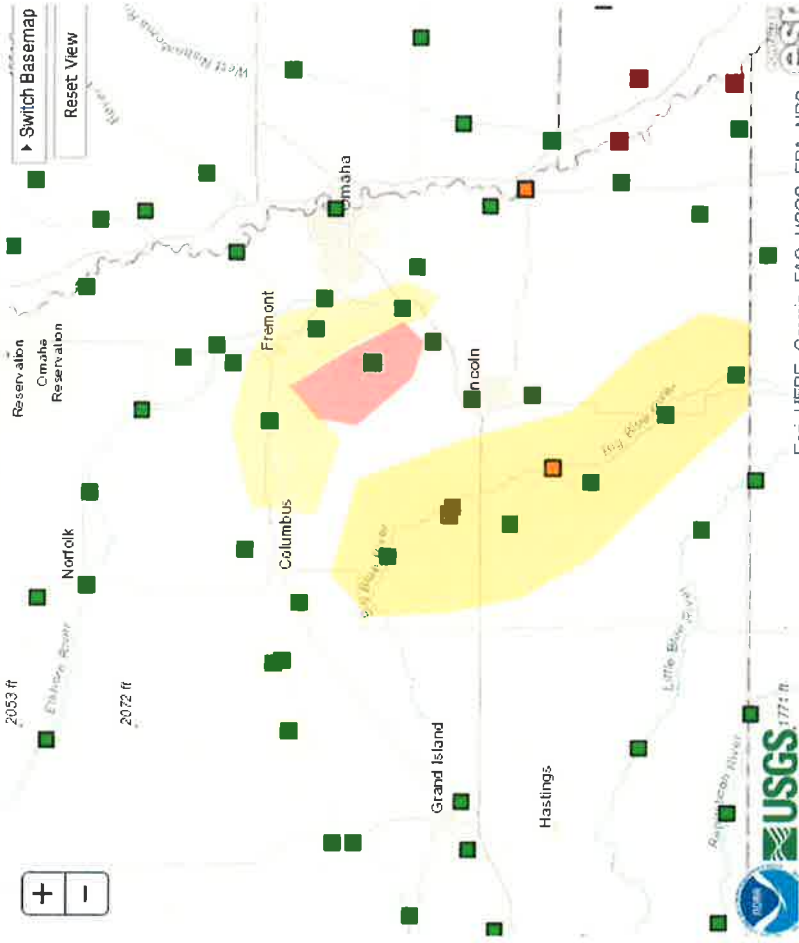
**Big Sioux River: major**



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# MISSOURI BASIN:

## Flood Potential Outlook Nebraska



**Big Blue River: minor**

**Lincoln Creek: minor**

**N. Fk. Elkhorn: minor**

**Platte River: minor**

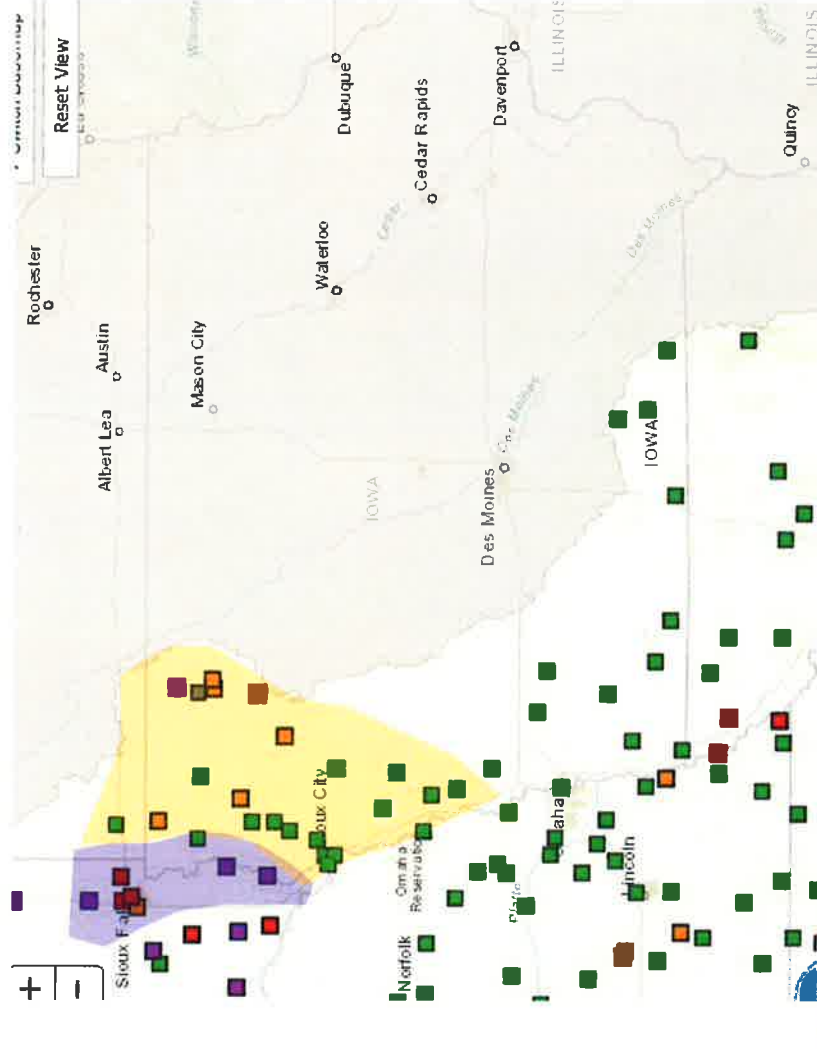
**Wahoo Creek: moderate**



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# MISSOURI BASIN: Flood Potential Outlook Iowa



**Floyd River: minor**

**Little Sioux River: major**

**Ocheyedan River: minor**

**Rock River: minor**

**Big Sioux River: major**

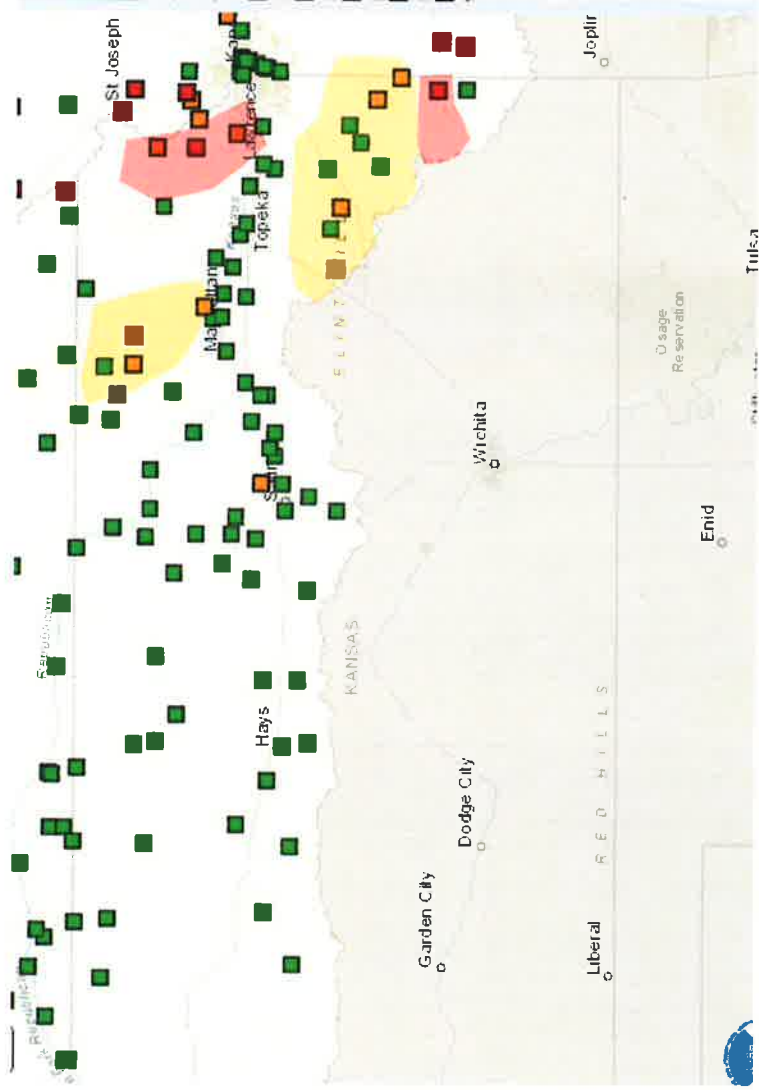


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# MISSOURI BASIN:

## Flood Potential Outlook Kansas



**Big Blue River: minor**

**Little Blue River: minor**

**Black Vermillion: minor**

**Vermillion River: minor**

**Stranger Creek: moderate**

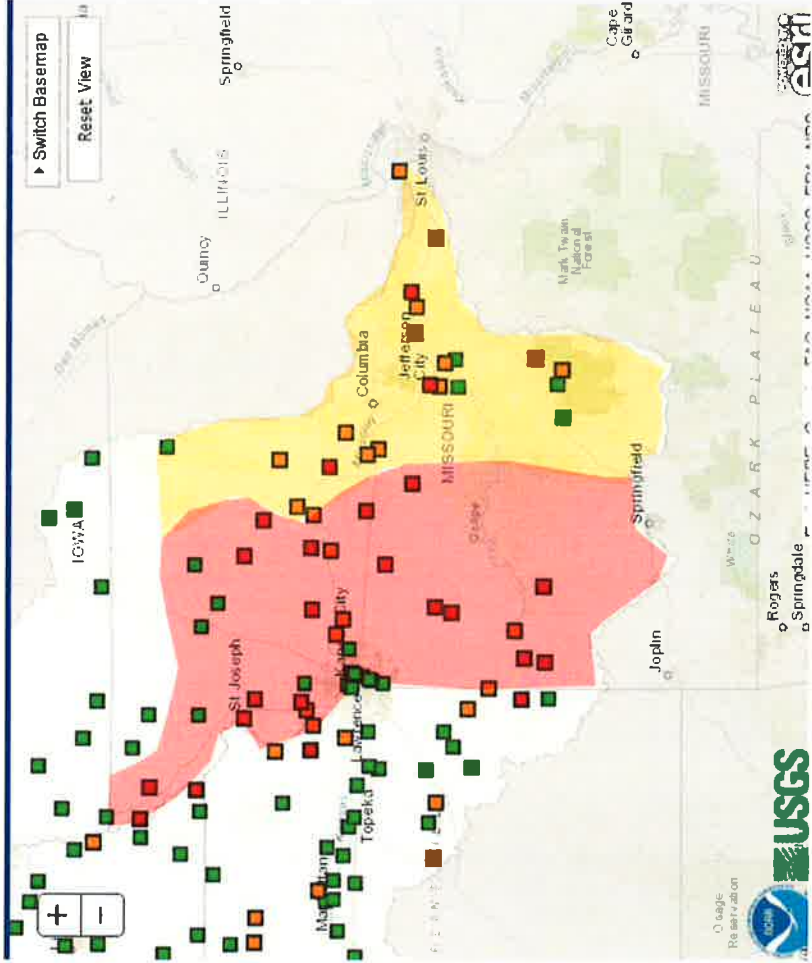
**Marais des Cygnes: minor**

**Little Osage River: moderate**



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# MISSOURI BASIN: Flood Potential Outlook Missouri



**Grand River: moderate**

**Chariton River: minor**

**Blackwater River: moderate**

**Lamine River: moderate**

**Moreau River: minor**

**Gasconade River: minor**

**Little Osage River: moderate**

**Marmaton River: moderate**

**Osage River: minor**

**Sac River: moderate**

**South Grand River: moderate**

**Tarkio River: moderate**

**Platte River: moderate**

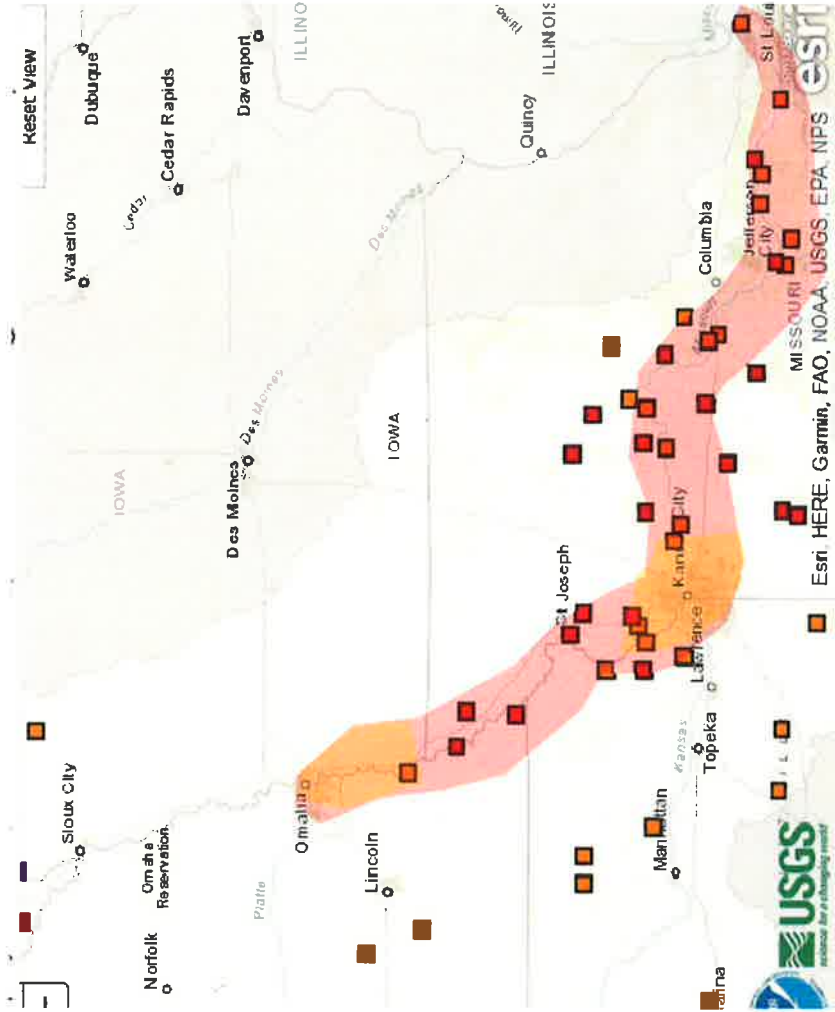


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# MISSOURI BASIN:

## Flood Potential Outlook: Missouri River Below Gavins to St. Louis



**Flooding along the mainstem can be expected from Blair Nebraska to the mouth at St. Louis.**

**Minor flooding expected in the Omaha and KC reaches, moderate flooding should be planned for along the remainder of the river.**

**Major level flooding cannot be ruled out below KC.**



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# MISSOURI BASIN:

## Flood Potential Outlook: Summary Points

- Mountain snowpack is slightly above average this year. We still have roughly 30% of snow accumulating period remaining.
- Appreciable plains snowpack limited to eastern Dakotas. 3+ inches SWE is concerning.
- Saturated soils over much of the basin. Frozen ground not yet a concern.
- Concern for ice jam flooding is lessening due to mild temperatures. (Dependent upon rate of snowmelt and rain events.)
- Significant flooding due to mountain snow runoff alone is not likely.
- Episodic flooding likely in the lower portion of the basin (eastern KS, southern IA, MO) due to Spring-time thunderstorm activity. This is typical whether soils are wet or not.
- **MUCH ABOVE NORMAL FLOOD RISK in the eastern portion of the basin. MAJOR FLOODING IS EXPECTED ALONG NORTHERN TRIBS. WIDESPREAD MODERATE FLOODING ELSEWHERE IN THE EASTERN PORTION.**



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# Summary

**Widespread flooding is expected this spring.**

**Flood risk is above to much above normal** for the eastern 2/3<sup>rd</sup> of the Mississippi River System including the Red River of the North and Great Lakes. Significant floods can occur anywhere in this risk area.

Normal flood risk is contained to the following areas: western portions of the Missouri basin, western portions of the Arkansas/Red basin and upper Ohio River basin.

**The greatest chances for major flooding are in the Red River of the North and parts of the upper Mississippi and upper Missouri basins.**

**The next PARTNERS briefing will be Thursday February 27, 2020**



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