



National Weather Service Preliminary Spring Flood Outlook

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National Weather Service – Des Moines, IA

February 28, 2020





Spring Flood Outlook

As of 2/26



River	Spring Flood Risk
Mississippi River	Much Above Normal
Missouri River above Platte River	Above Normal
Missouri River below Platte River	Much Above Normal
Tributaries to Mississippi River in Iowa	Above Normal (Variable in northeast Iowa)
Big Sioux River	Much Above Normal
Other Tributaries to Missouri River in Iowa	Above Normal

National Weather Service 2020 Spring Flood Outlook Schedule

Thursday, February 13, 2020; Thursday, February 27, 2020 &
Thursday, March 12, 2020

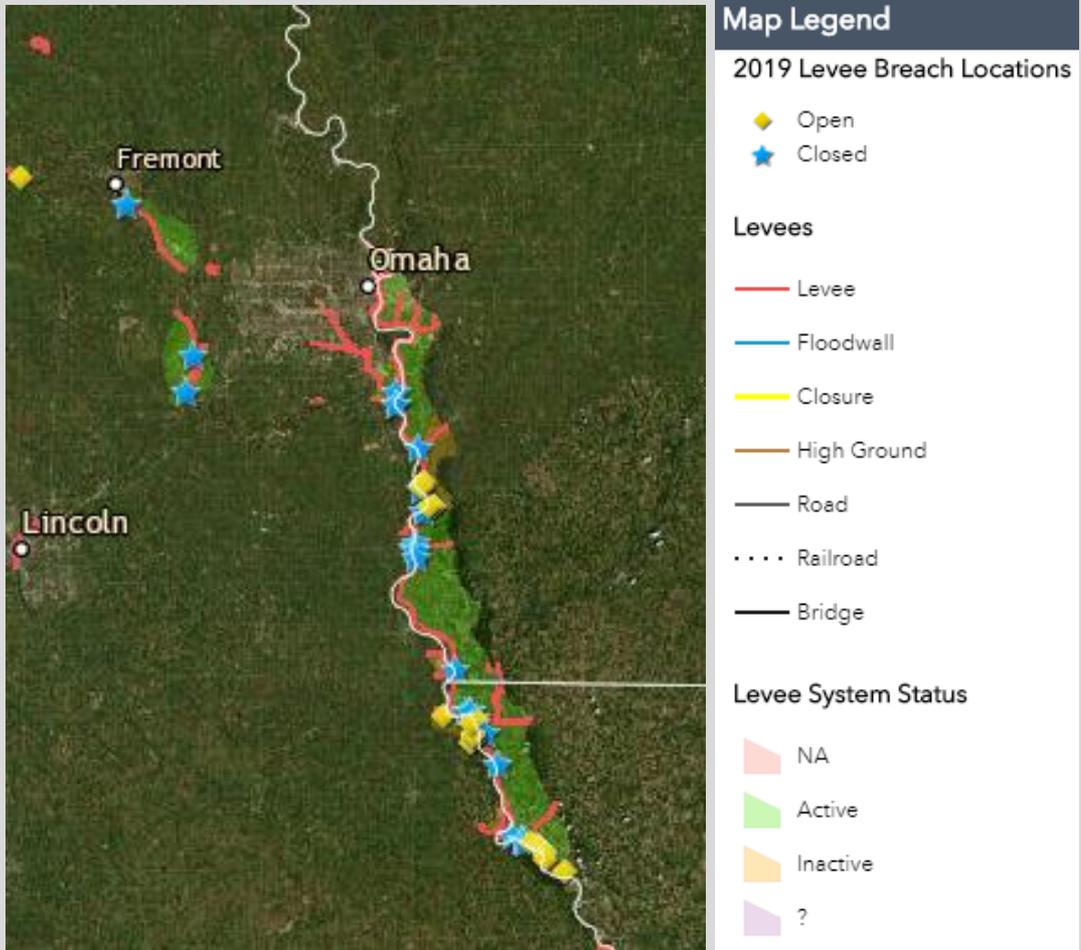




Levee Breaches on Missouri River



As of 2/25



URL: <https://www.nwo.usace.army.mil/Omaha-District-System-Restoration-Team/>

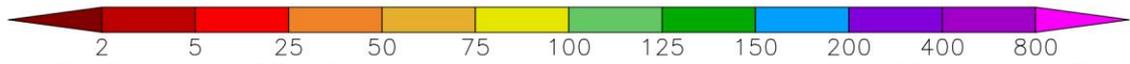
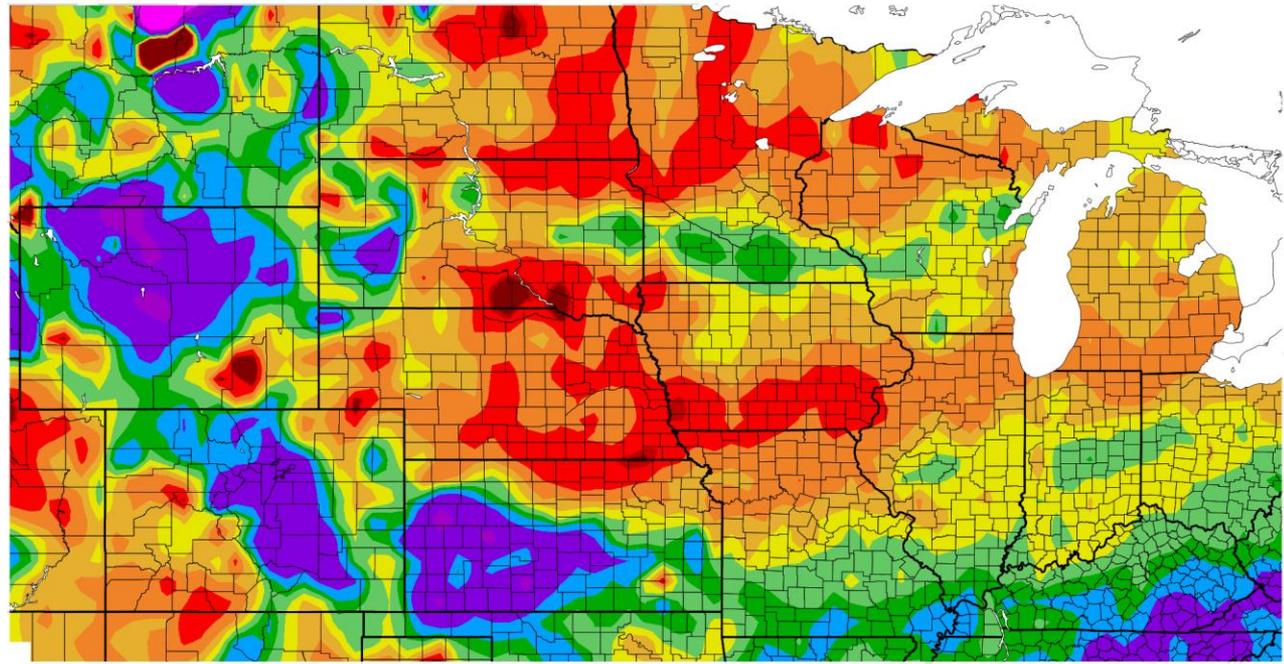




Precipitation % of Normal Past 30 Days



Percent of Normal Precipitation (%)
1/26/2020 - 2/24/2020



Generated 2/25/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

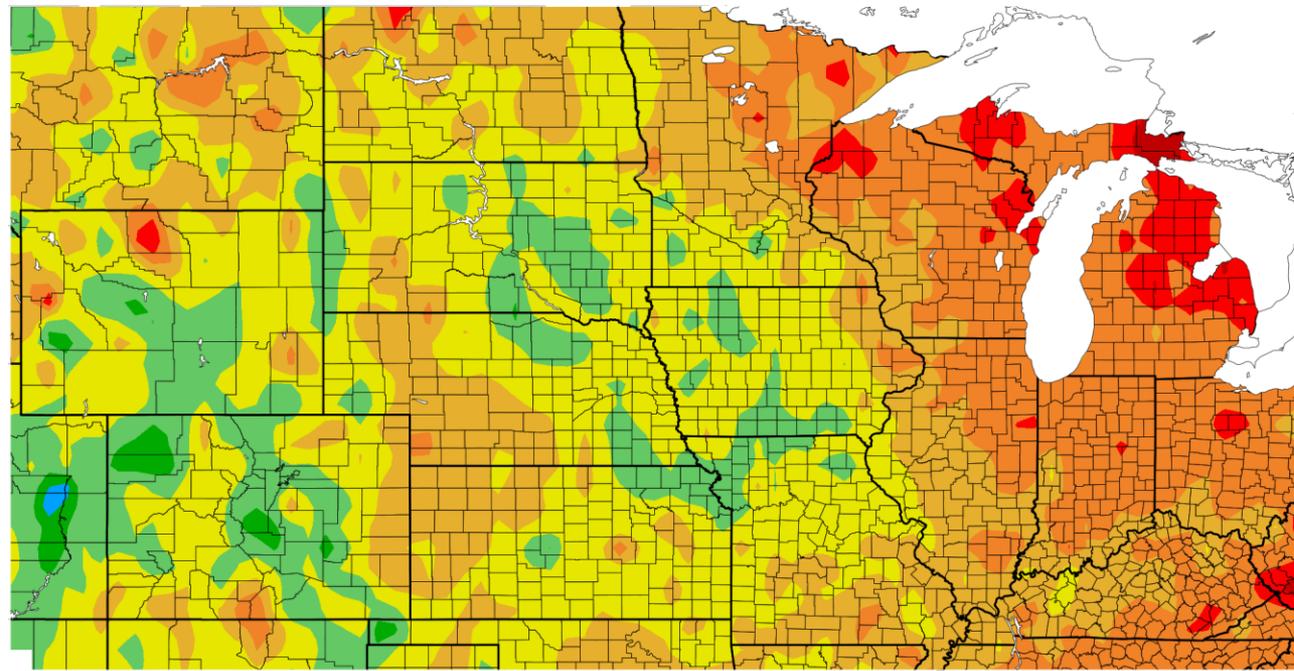




Temperature Dep from Normal Past 30 Days



Departure from Normal Temperature (F)
1/15/2020 - 2/13/2020



Generated 2/14/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

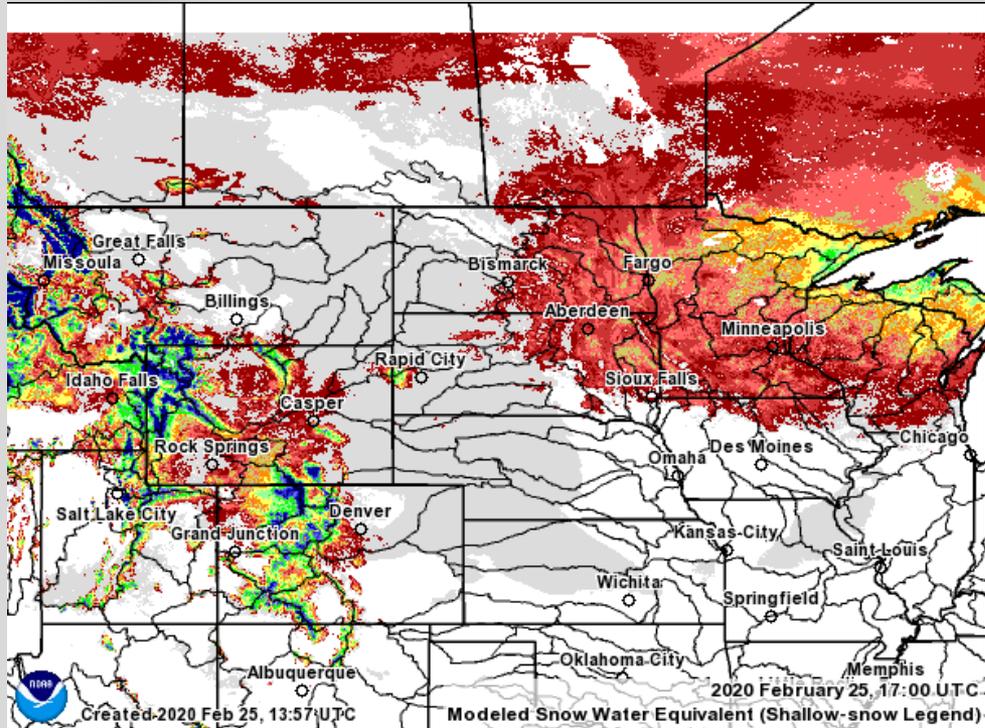




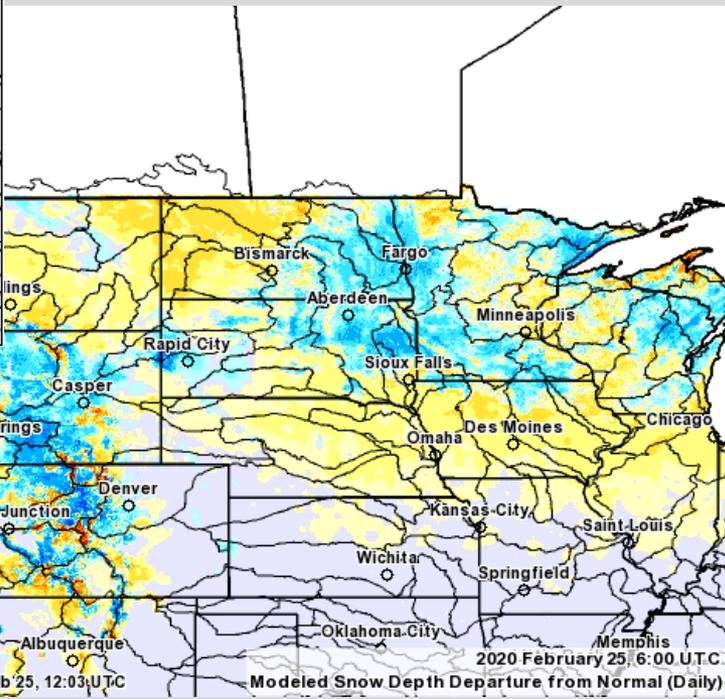
Snowpack



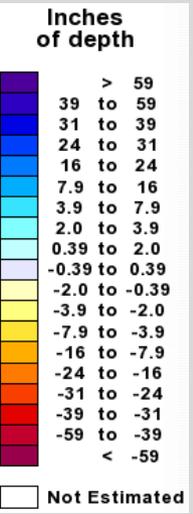
Water Equiv & Depth vs. Normal, 2/15/2020



Snow Water Equivalent



Snow Depth vs. Normal



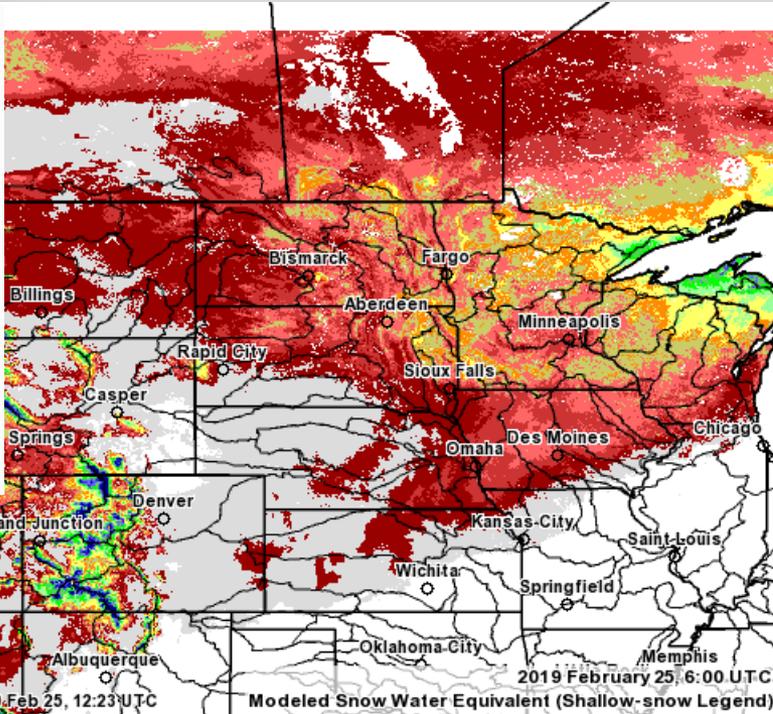


Snowpack



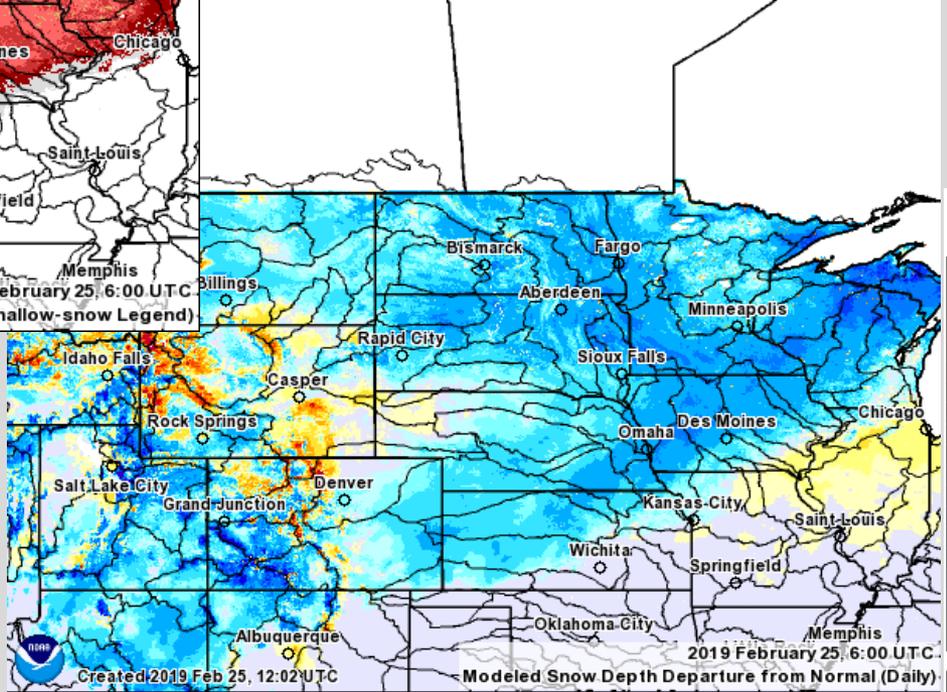
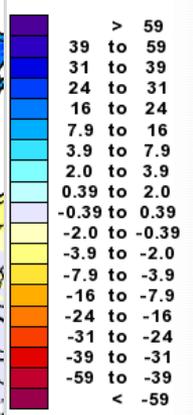
Water Equiv & Depth vs. Normal, 2/25/2019

Inches of water equivalent



Snow Depth vs. Normal

Inches of depth



Snow Water Equivalent



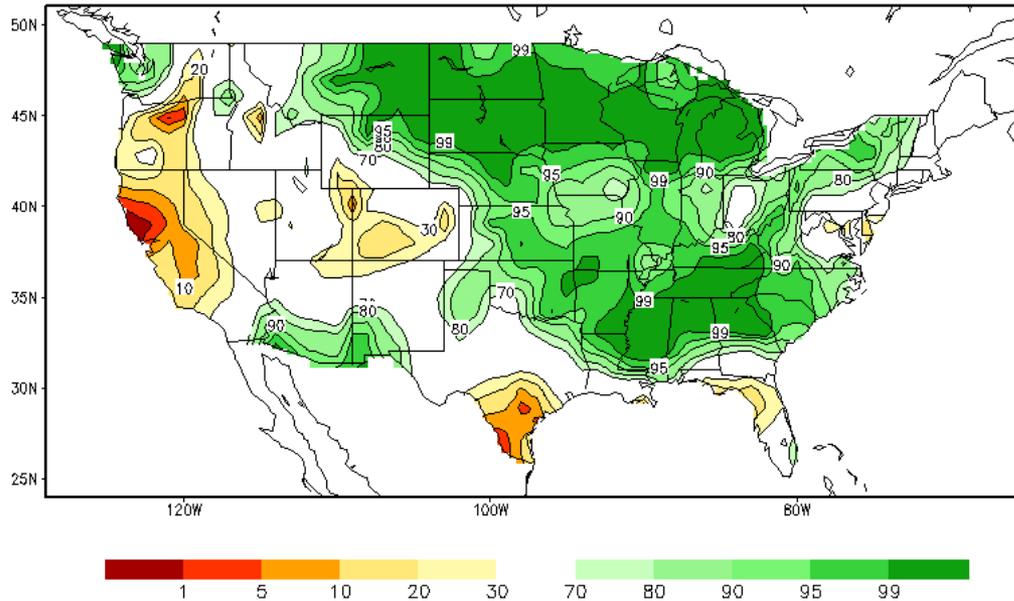


Soil Moisture Percentile

Current Values & Change, 2/24



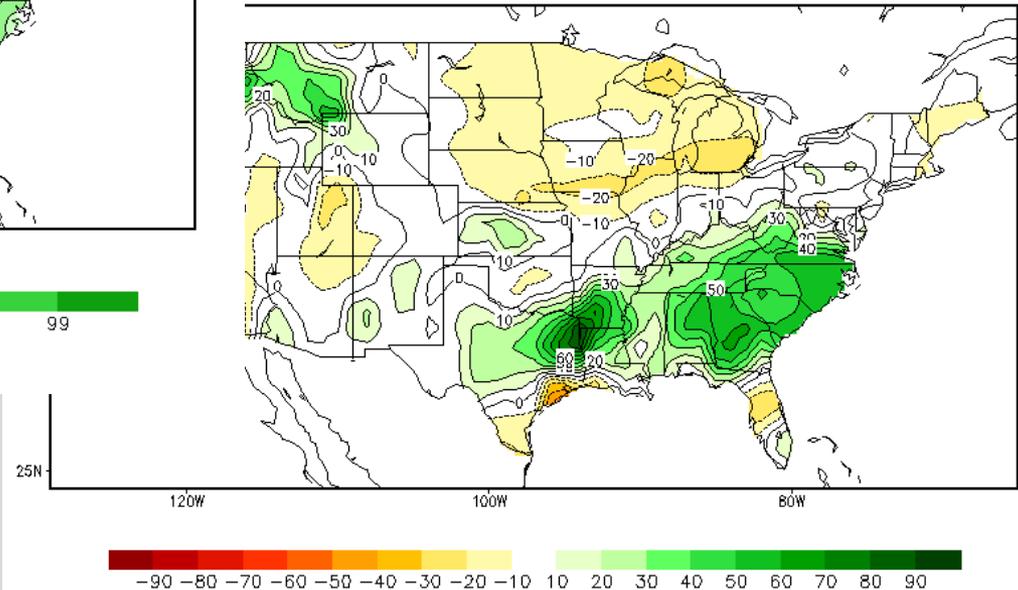
Calculated Soil Moisture Ranking Percentile
FEB 24, 2020



Current Percentiles

Change

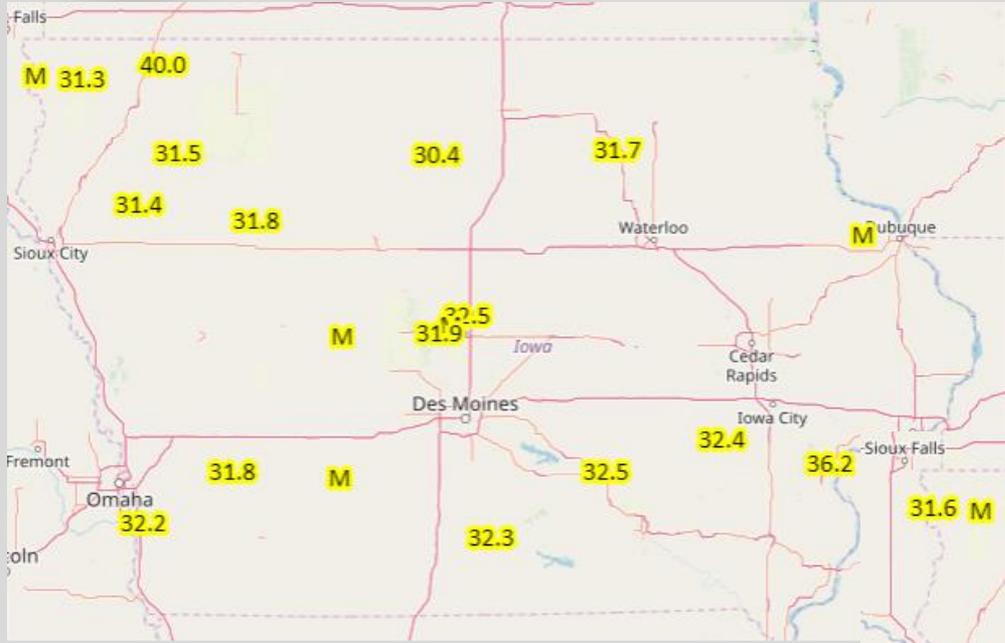
Calculated Soil Moisture Anomaly Change
FEB 24, 2020 from JAN.31





Soil Temperatures/Ground Frost

Temperatures in F, 2/12

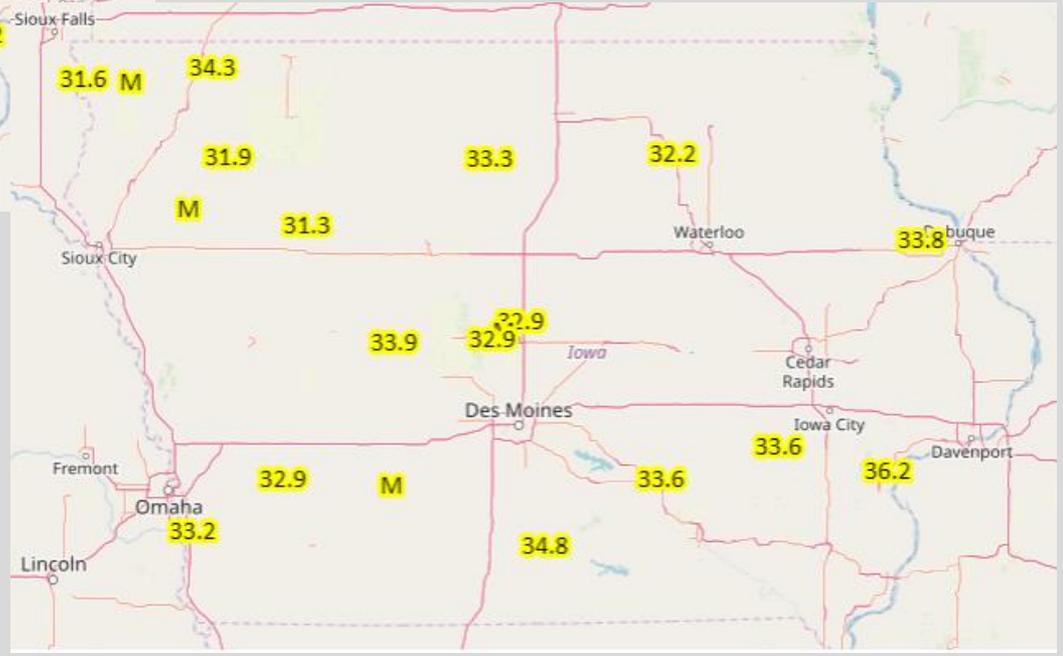


4 inch Soil Temps



12 inch Soil Temps

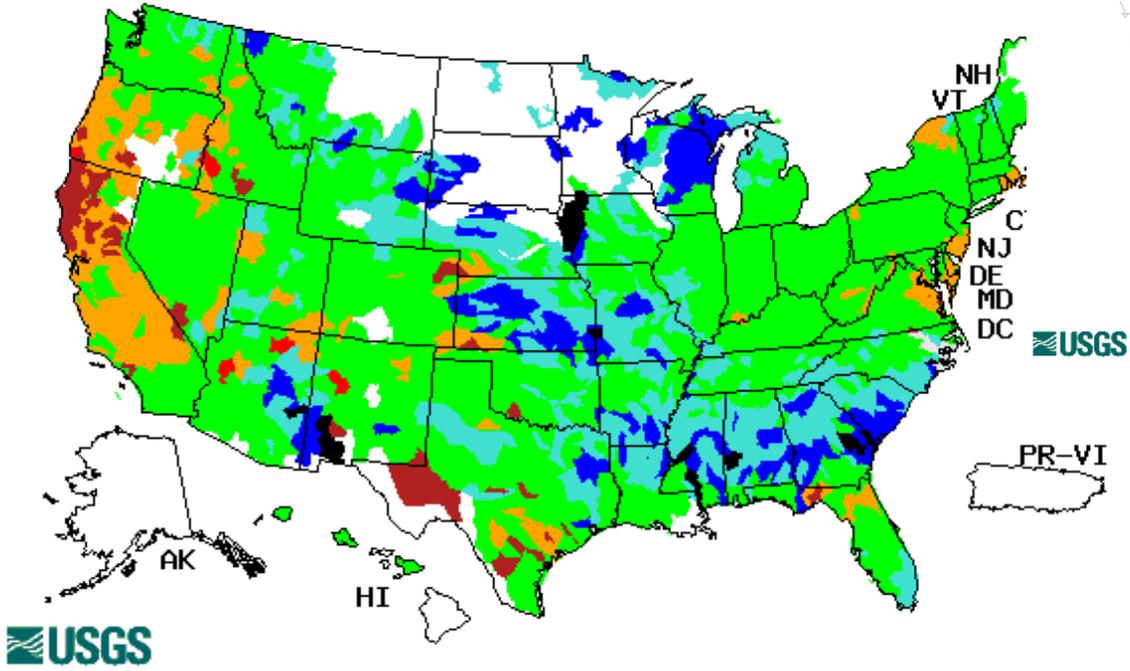
IOWA STATE UNIVERSITY



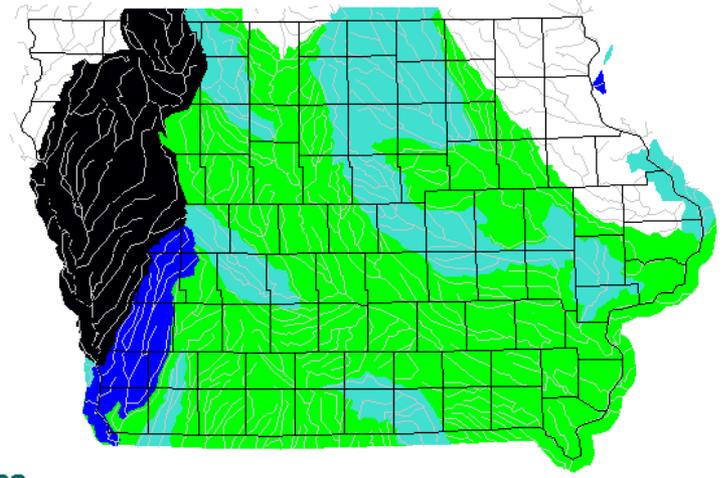


Current Streamflow Values vs. Normal (Percentiles), 2/25

Monday, February 24, 2020



Monday, February 24, 2020



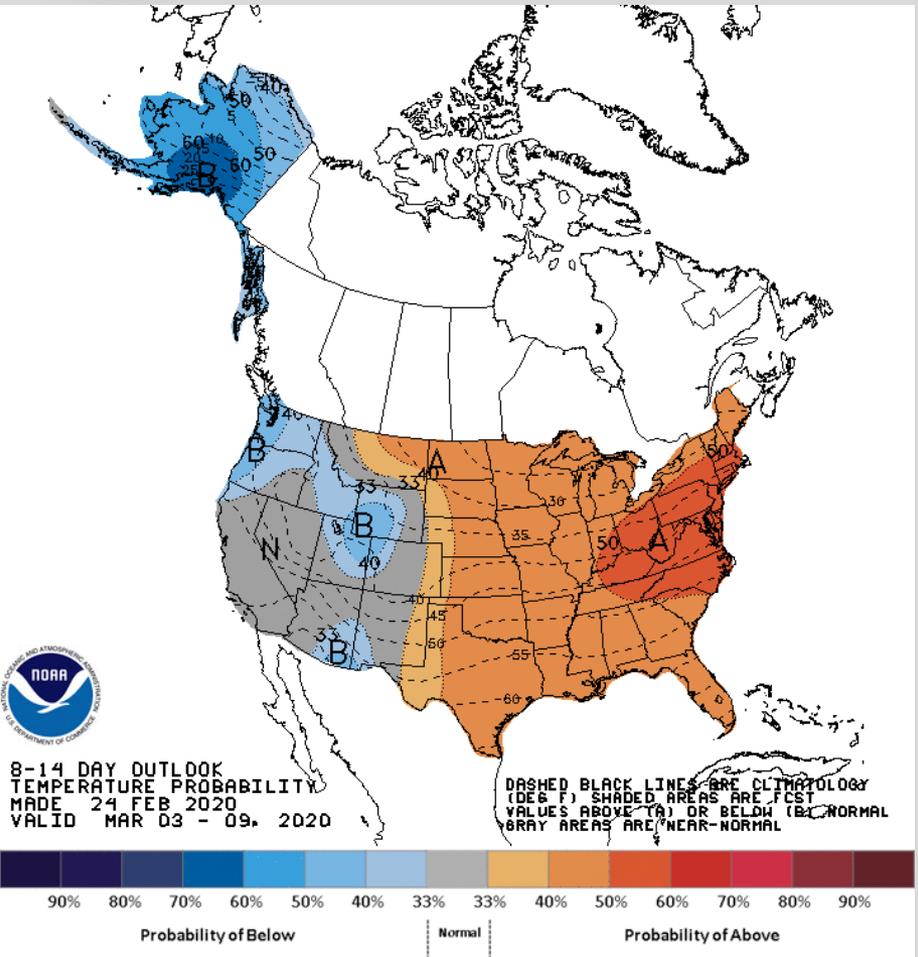
Explanation - Percentile classes

Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

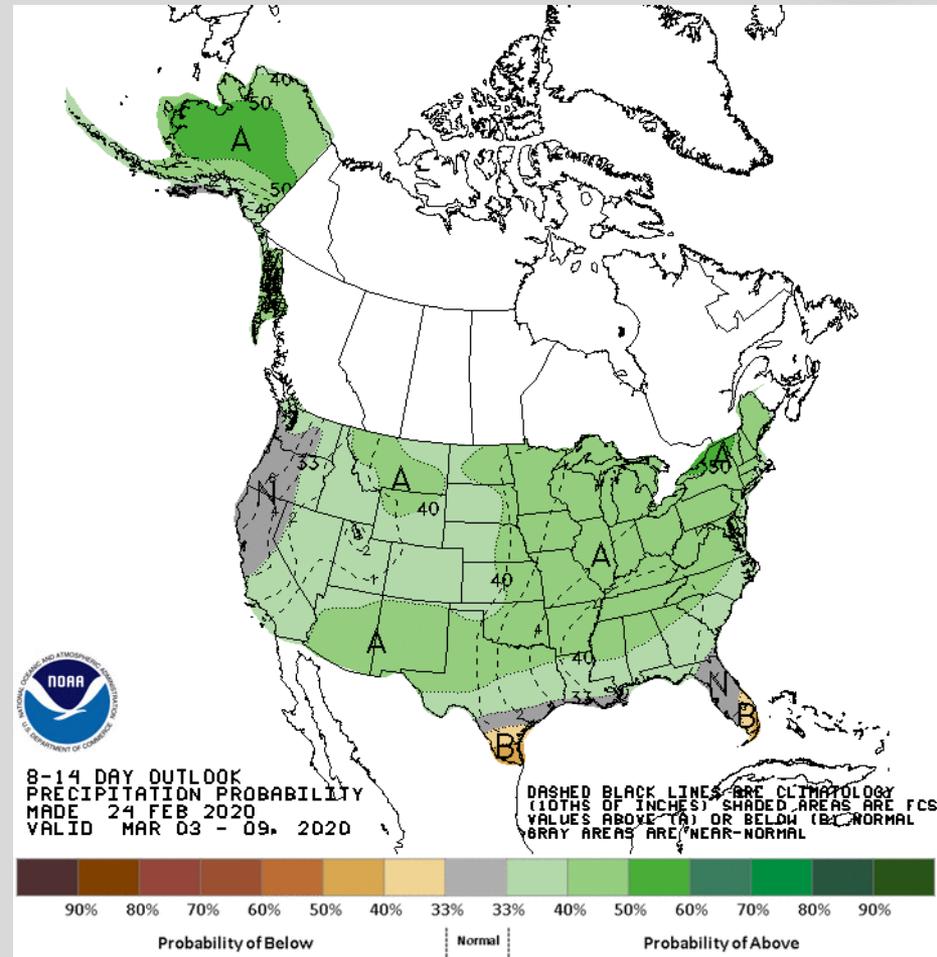




2-Week Temp/Precip Outlooks



Temperature



Precipitation



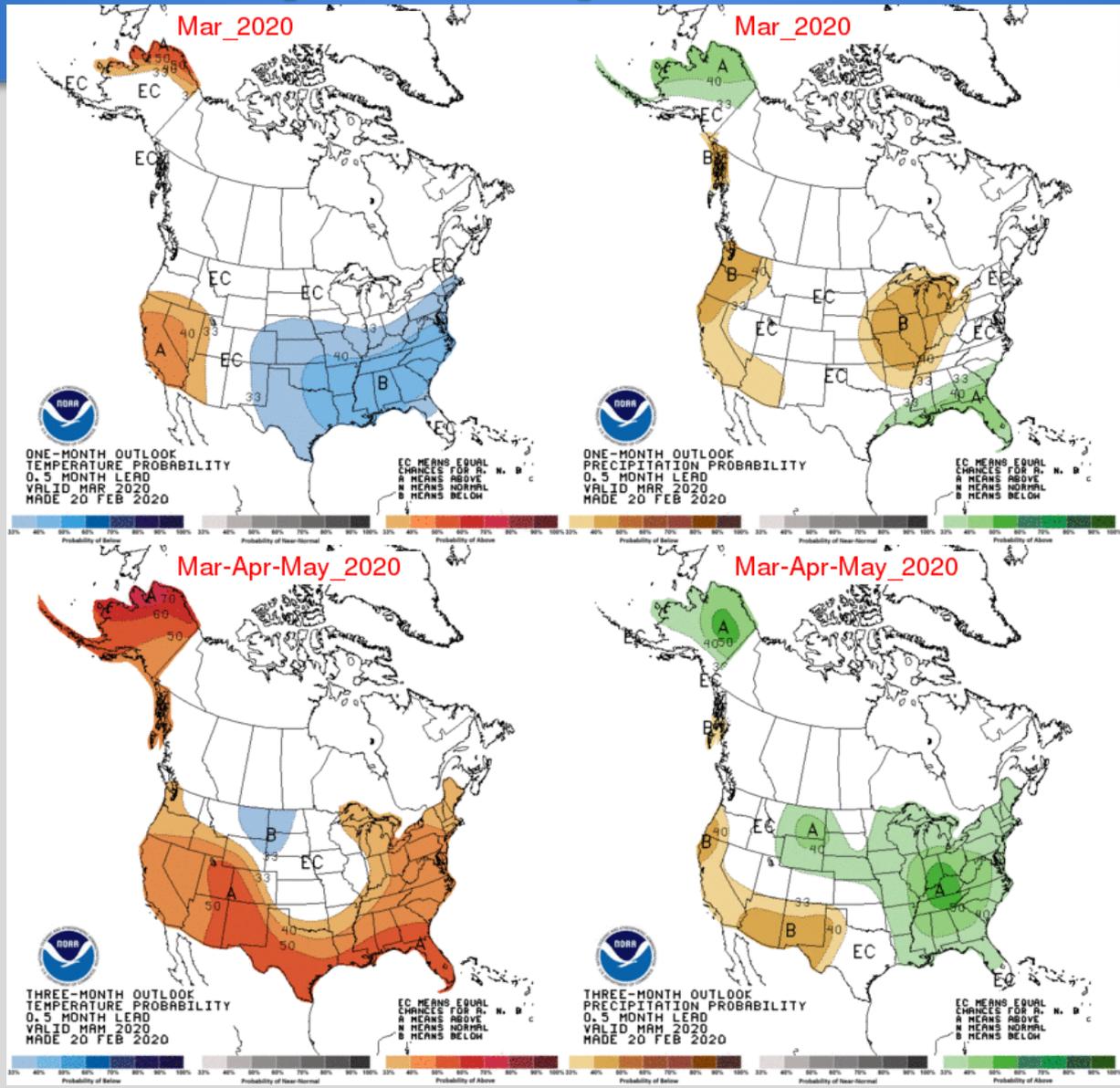


Temp/Precip Outlooks



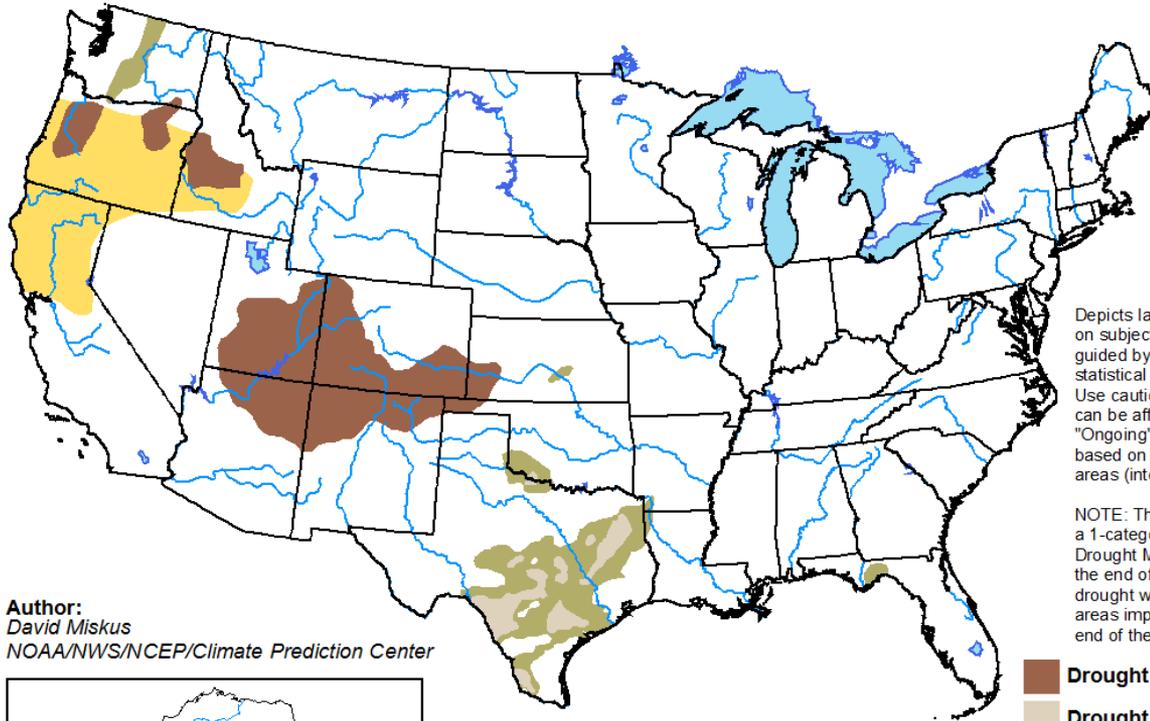
Temperature
on Left

Precipitation
on Right



U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

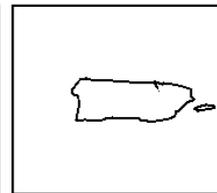
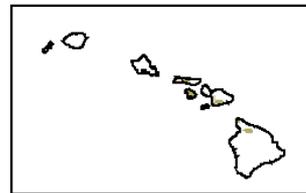
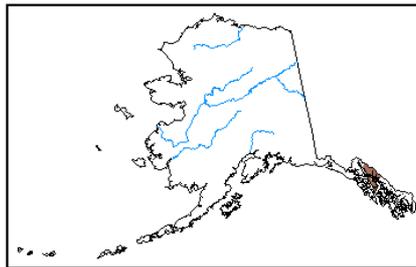
Valid for January 16 - April 30, 2020
Released January 16



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
David Miskus
NOAA/NWS/NCEP/Climate Prediction Center



- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely



<http://go.usa.gov/3eZ73>



Spring Flood Outlook Factors



As of 2/26

Factor	Contribution to Flood Risk
Snowpack	Increased Risk
Soil Moisture	Increased Risk
Frost Depth	Lowered Risk
Streamflow/Stream Levels	Increased Risk
Precipitation Outlook	Increased Risk (Missouri River)



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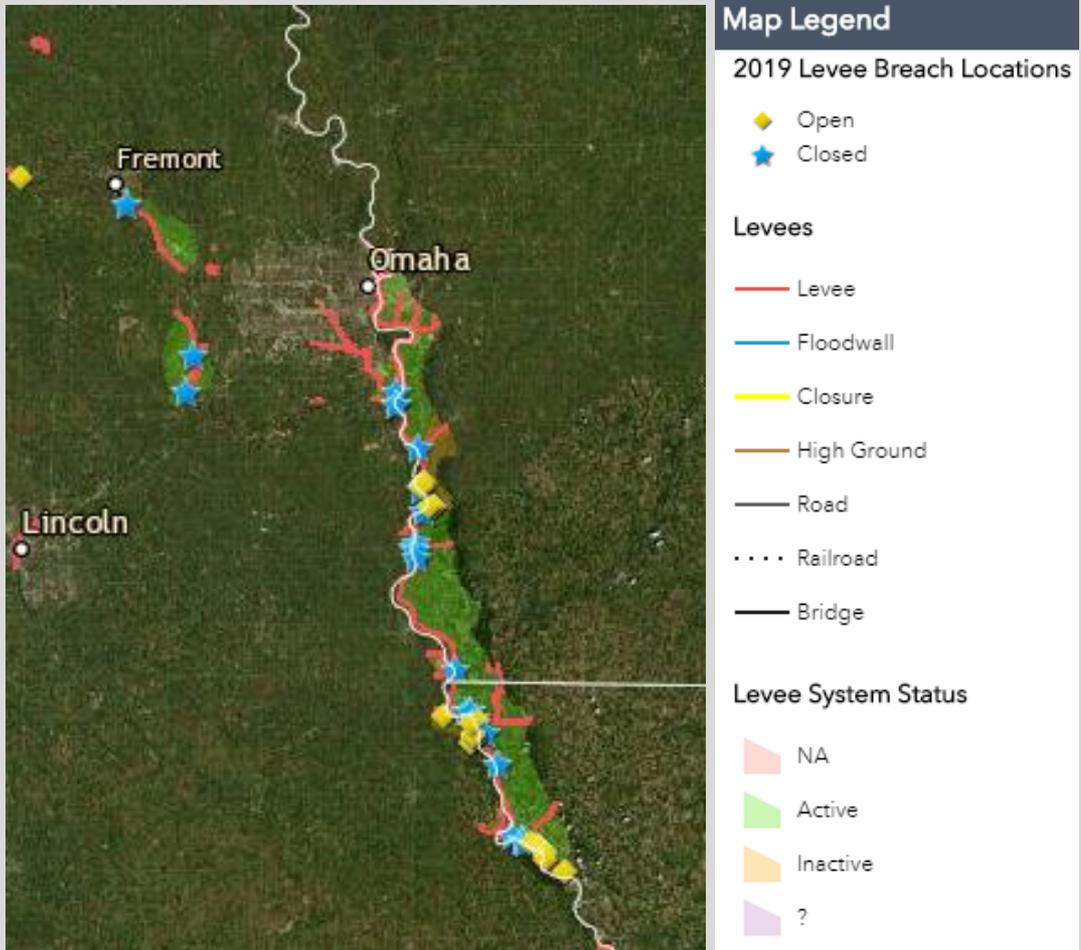




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Thank You



➤ NWS Office Contacts

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