

Planning for and Protecting Missouri's Water Resources

Missouri River
Navigator's Meeting
February 26, 2020

Dru Buntin
Deputy Director



2019: A Year Marked by Flooding

Flood Recovery Advisory Working Group

- Unprecedented flood duration on both the Missouri and Mississippi during 2019
- Governor Parson's Executive Order in July 2019 formed the Working Group
- Interim recommendations delivered in December 2019
- Final report due May 31, 2020



Flood Recovery Advisory Working Group

Interim Recommendations

- Continue coordination with Kansas, Iowa, and Nebraska on flood recovery efforts
- Congress should fund, and the Corps should address, areas where structures appear to be exacerbating flood damages
- Understand the impacts to the state's agriculture industry, both from the 2019 event and impacts extending into the future
- Redistrict the Corps to provide better coordination for MO counties
- Explore ways to change laws pertaining to the Corps' flood response for more proactive ability to increase flood resiliency
- Provide one resource with readily available, comprehensive information on flood recovery and resiliency resources and funding

4-State Action on the Lower Missouri

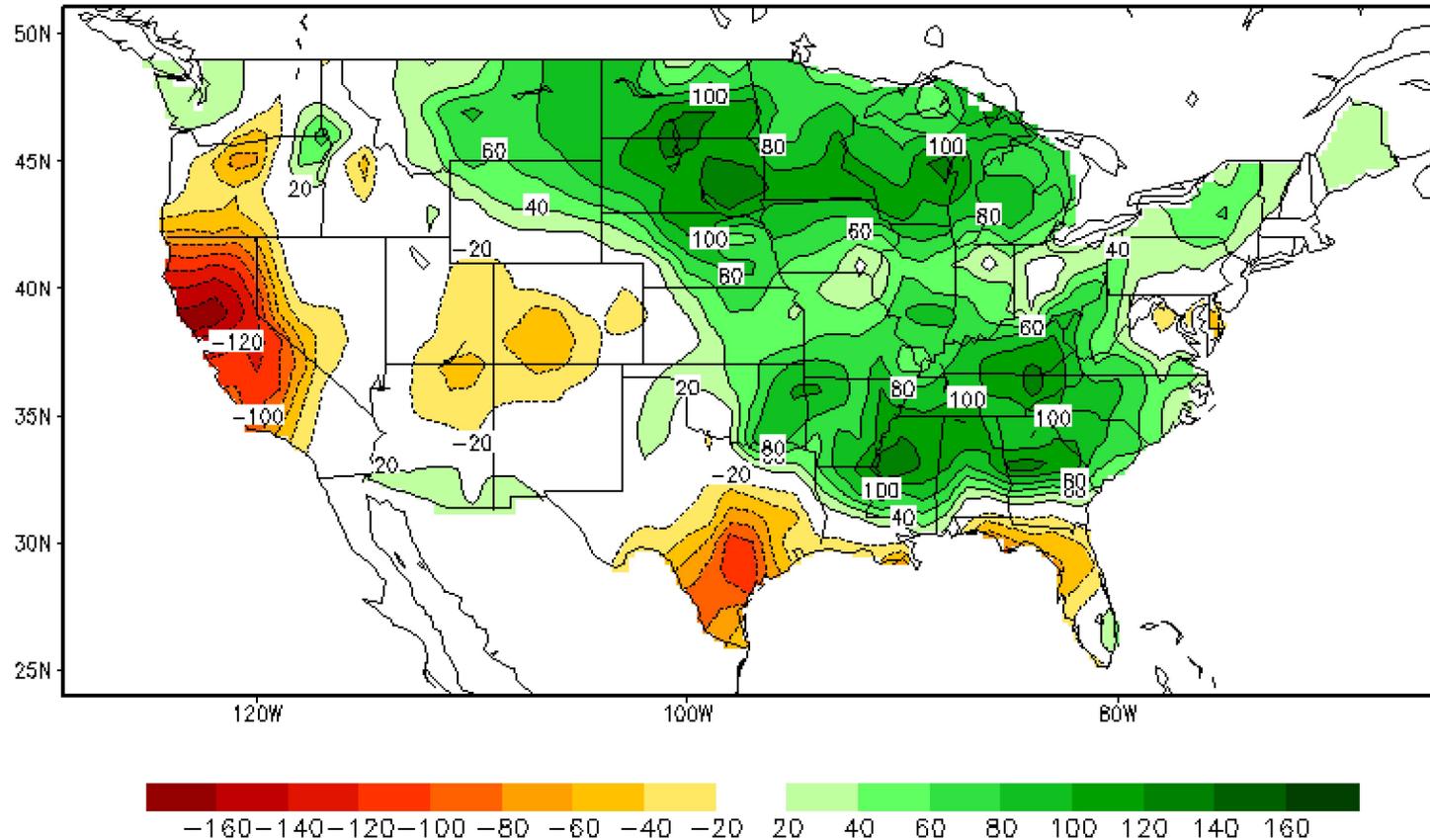
- Planning assistance to states agreement with several goals:
 - Analysis of vulnerable problem spots on the Lower Missouri
 - Stakeholder outreach to better understand recurrent problem areas and review of past successful actions
 - Assessment of effective options to provide better protection/function
 - Initial assessment of flow changes and changes to stream profile (could lead to additional flow frequency analysis)

Additional Recovery and Mitigation Actions

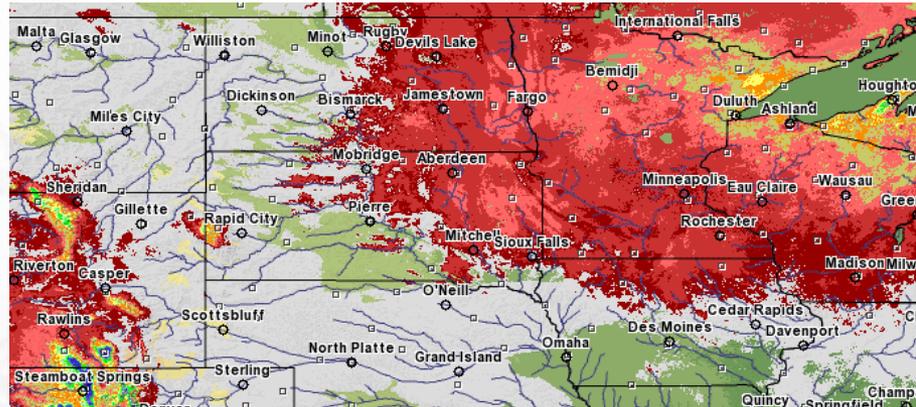
- SEMA continues to assess and assist need for assistance with match on levee repair for non-federal PL 84-99 levees
- The Department is working to install a soil moisture network, starting with 15 sites this fiscal year
- Agencies and partners are reaching out locally to offer information and resources to prepare for this year

Major River Basin Conditions and Outlook

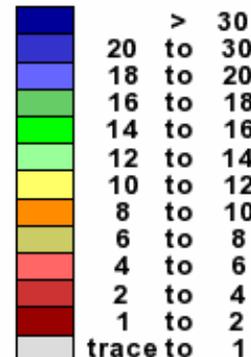
Calculated Soil Moisture Anomaly (mm)
FEB 19, 2020



Snow Pack and Water Equivalent



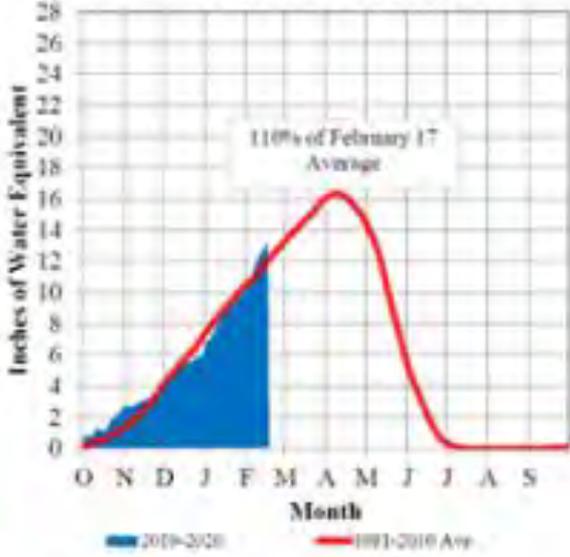
Inches of water equivalent



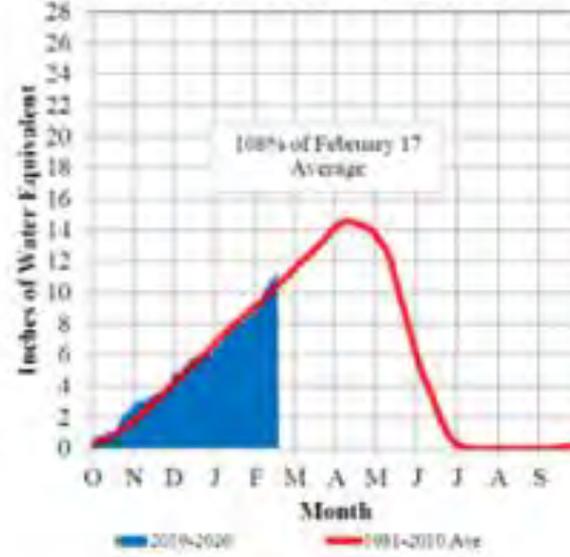
Mountain Snowpack
February 17, 2020

February 20, 2020

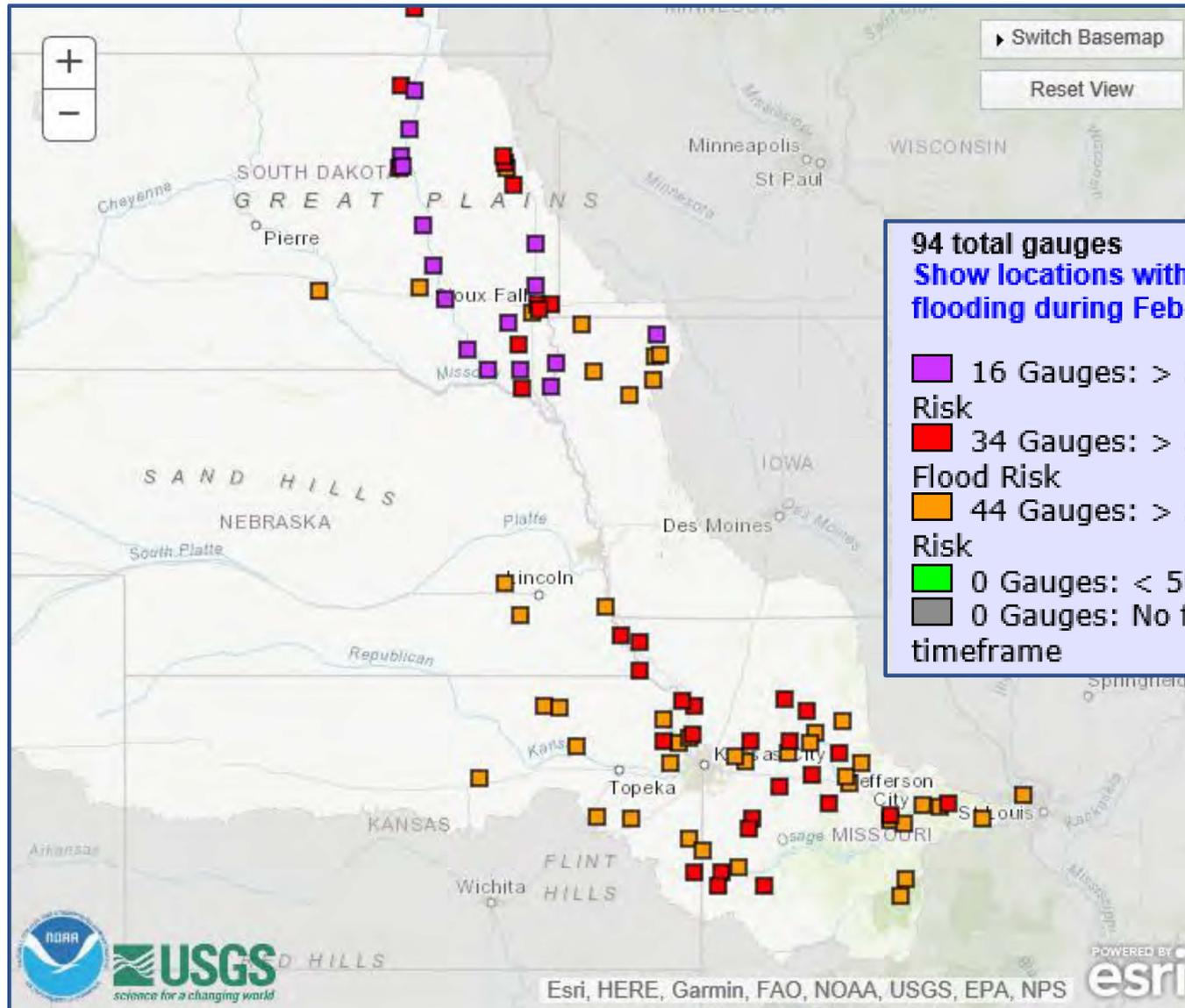
Total above Fort Peck



Total Fort Peck to Garrison



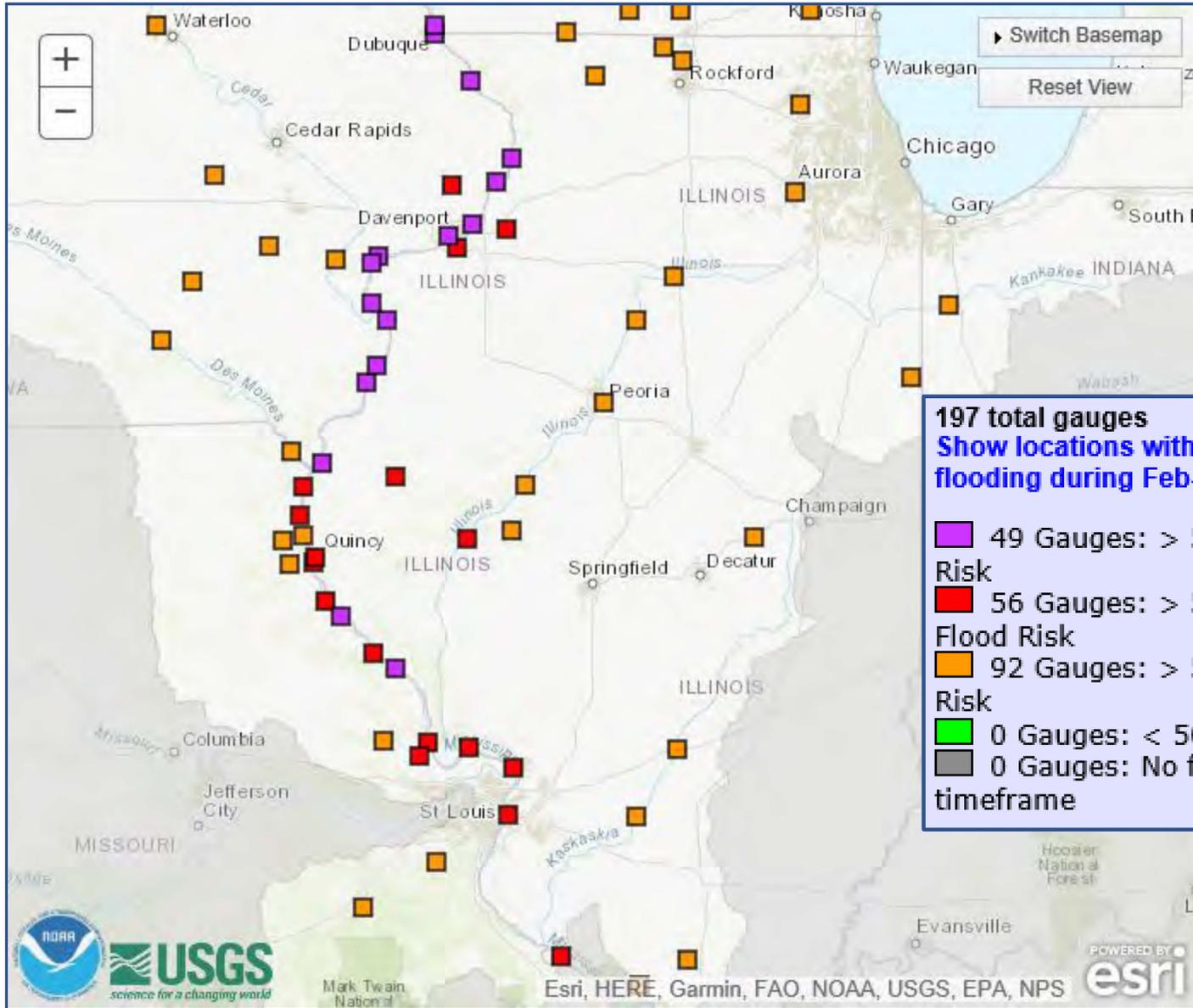
Missouri River Long Range Forecast (February – April 2020)



94 total gauges
Show locations with 50% or greater chance of flooding during Feb-Mar-Apr (94)

- 16 Gauges: > 50% Major Long-Range Flood Risk
- 34 Gauges: > 50% Moderate Long-Range Flood Risk
- 44 Gauges: > 50% Minor Long-Range Flood Risk
- 0 Gauges: < 50% Long-Range Flood Risk
- 0 Gauges: No forecast within selected timeframe

Mississippi River Long Range Forecast (February – April 2020)



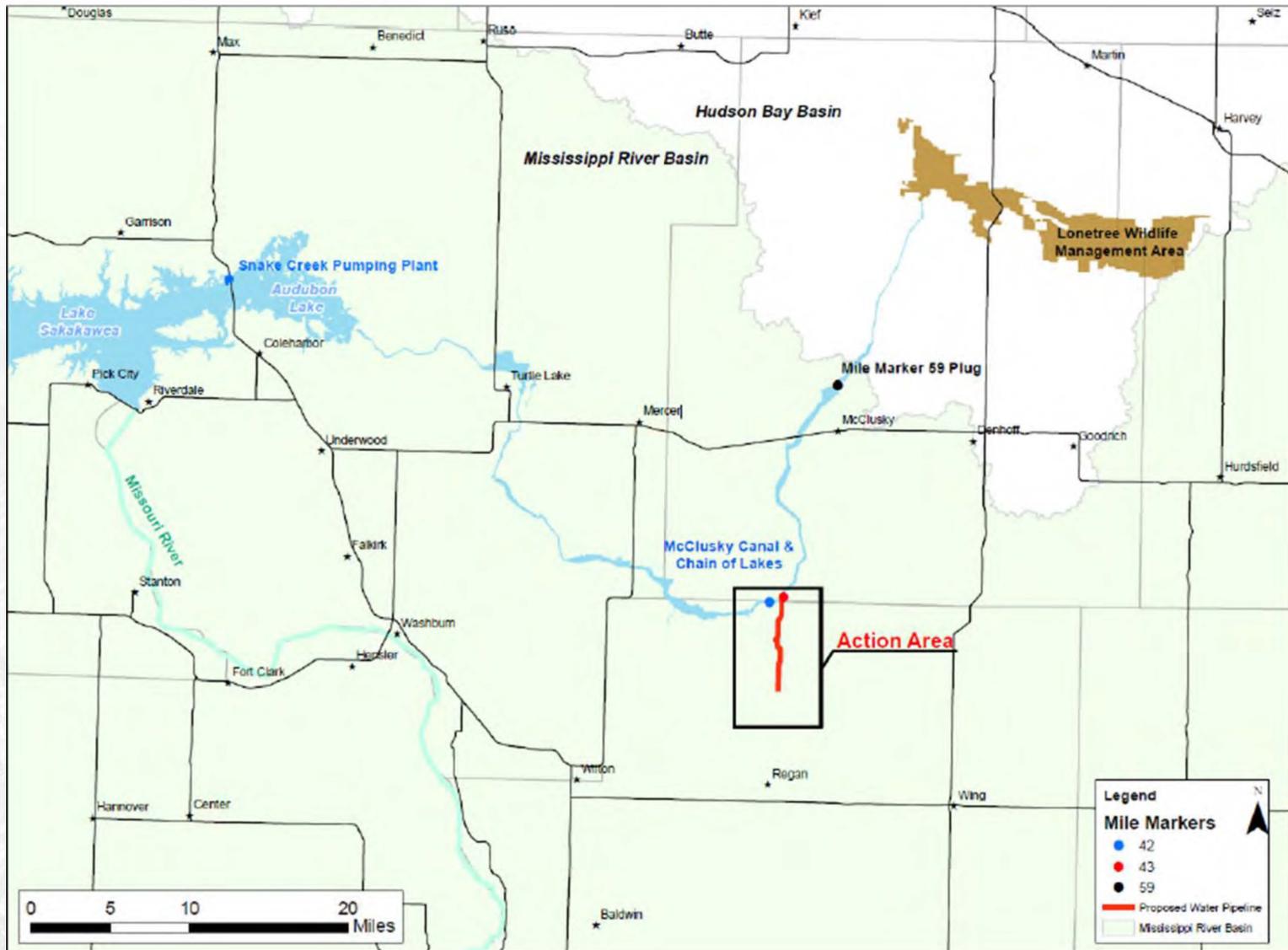
Protecting Our Water Resources

Out of Basin Diversions

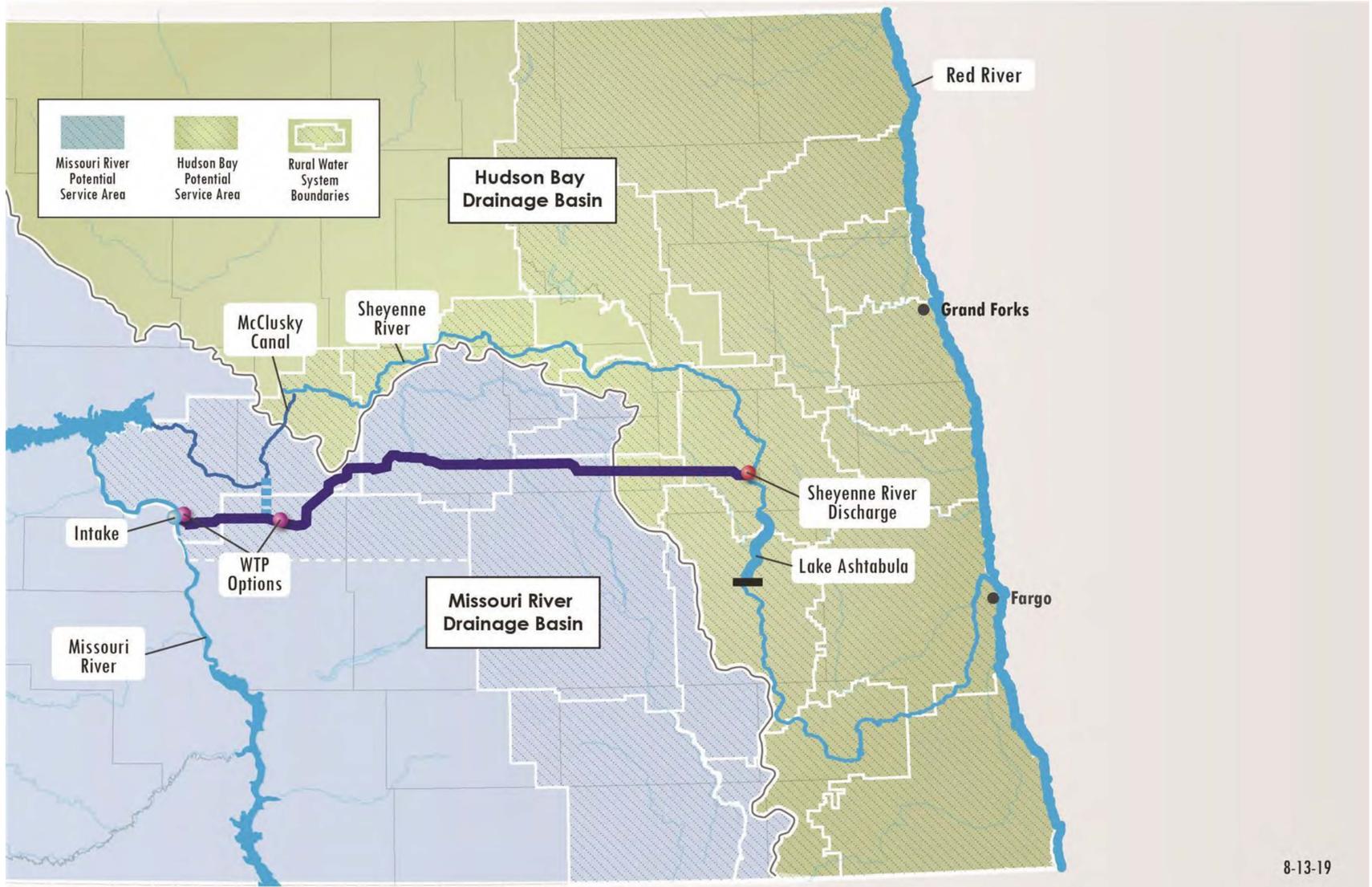
Central North Dakota Water Supply Project



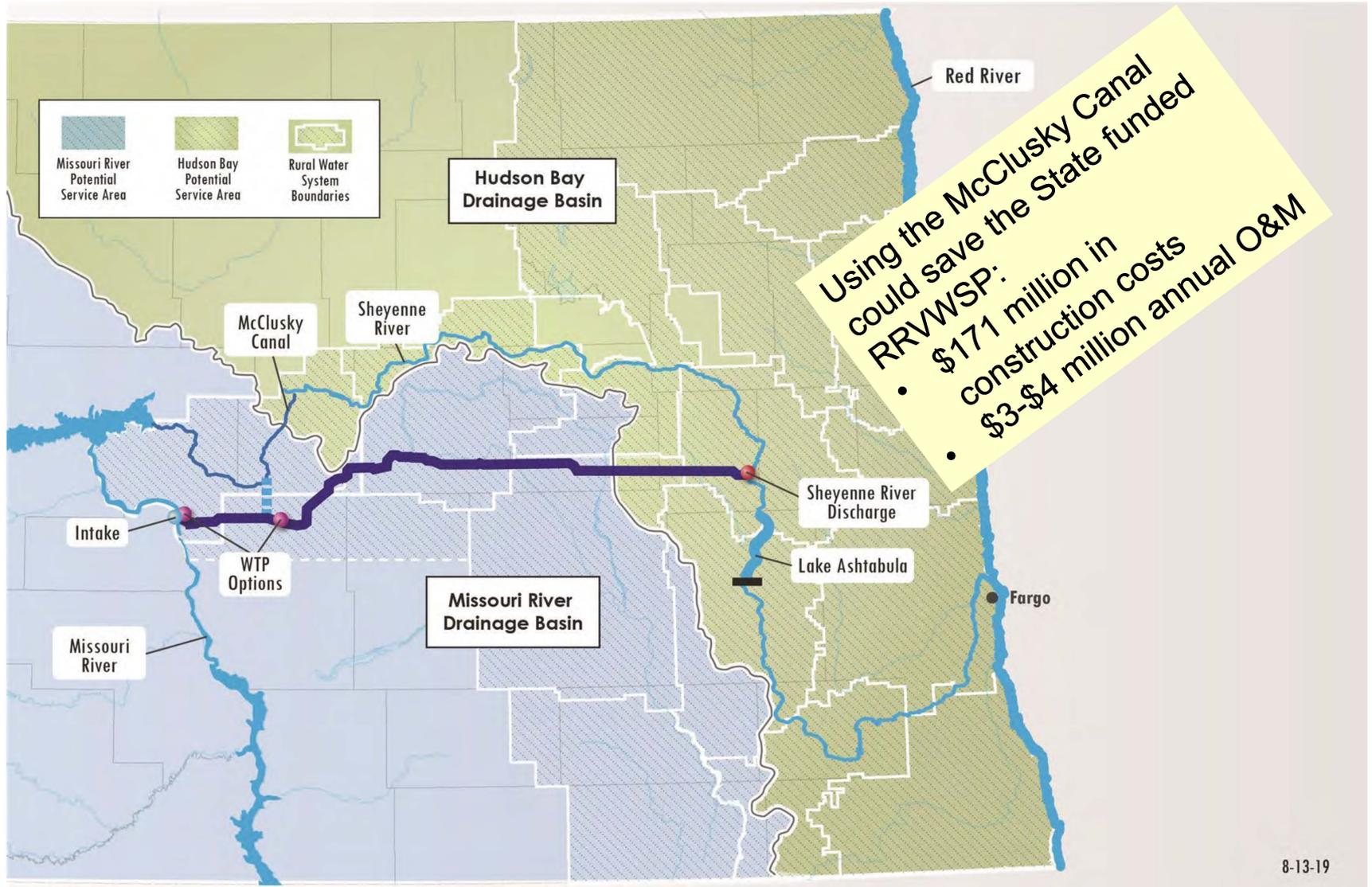
Central ND Water Supply – Project Map



State funded – RRVWSP and Eastern ND Alternate Water Supply Project



State funded – RRVWSP and Eastern ND Alternate Water Supply Project



UNITED STATES DISTRICT COURT
WESTERN DISTRICT OF MISSOURI
CENTRAL DIVISION

STATE OF MISSOURI, ex rel. Attorney
General Eric S. Schmitt,
Plaintiff,

UNITED STATES DEPARTMENT OF THE
INTERIOR—BUREAU OF RECLAMATION,
ENGINEERS,
DAVID BERNHARDT, SECRETARY
OF THE INTERIOR, in his official capacity,
BRENDA BURMAN, BUREAU OF
RECLAMATION COMMISSIONER,
in her official capacity,
MICHAEL S. BLACK, GREAT PLAINS
REGIONAL DIRECTOR, in his official
capacity,
ARDEN FREITAG, DAKOTA AREA
MANAGER, in his official capacity,
RYAN MCCARTHY, SECRETARY OF THE
ARMY, in his official capacity,
BRIGADIER GENERAL D. PETER
HEMLINGER, NORTHWEST DIVISION
COMMANDER, in his official capacity, and
NORTH DAKOTA GARRISON
DIVERSION CONSERVANCY DISTRICT,
Defendants.

Case No.

Case 2:20-cv-04018-NKL Document 1

ERIC SCHMITT
MISSOURI ATTORNEY GENERAL



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FOR IMMEDIATE RELEASE
February 5, 2020
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Email: chris.nuelle@ago.mo.gov

Missouri Sues U.S. Army Corps of Engineers, Other Agencies to Halt Proposed Water Diversion Program in North Dakota

JEFFERSON CITY, Mo. — The Missouri Attorney General's Office and the Missouri Department of Natural Resources today filed a lawsuit against the U.S. Army Corps of Engineers, the U.S. Department of the Interior's Bureau of Reclamation, and several other officials to stop the construction of a water diversion project in North Dakota. The Missouri Department of Natural Resources is the lead agency of the State of Missouri for all water quantity issues. The lawsuit, which can be found here https://ago.mo.gov/docs/default-source/press-releases/2019/cndbsp-complaint1126987816.pdf?stsrst=968b65c_2, was filed in the U.S. District Court, Western District of Missouri, Central Division.

Under the auspices of the federal Administrative Procedure Act and National Environmental Policy Act, the Missouri Attorney General's Office argues that the construction of the Central North Dakota Water Supply Project (Central ND Project) shouldn't proceed until officials determine how the project could impact Missouri's "human environment."

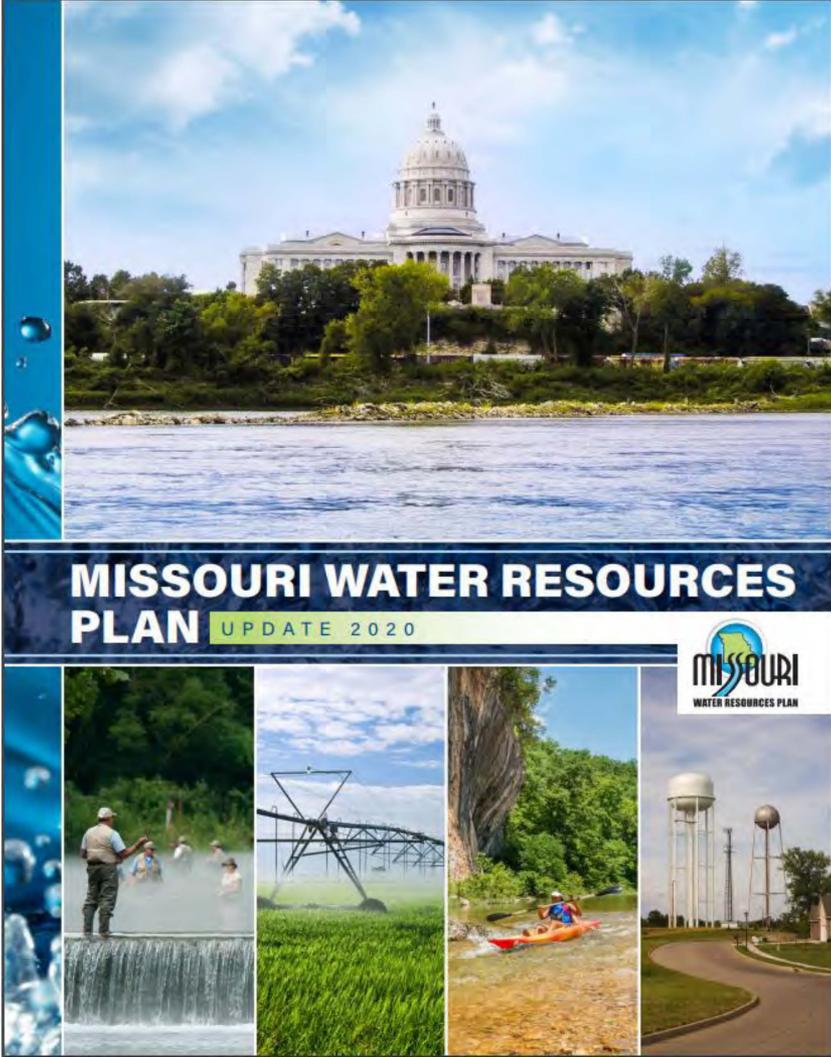
Nearly 2.5 million people, or roughly 40% of Missouri's population are served directly or indirectly by the Missouri River.

The lawsuit alleges that North Dakota and the Bureau of Reclamation failed to conduct significant analysis on the impact of the Central ND Project, and falsely stated that the project would pose insignificant impacts on "existing water needs and uses."

The Central ND Project is a proposed water service contract between the North Dakota Garrison Diversion Conservancy District (Garrison Diversion) and the Bureau of Reclamation. That contract is reliant upon the construction of a six mile pipeline that would deliver water from the McCusky Canal to the Red River Valley Water Supply Project. Waters that run through the McCusky Canal originate from Lake Audubon, which is connected to and comprised of Missouri River water.

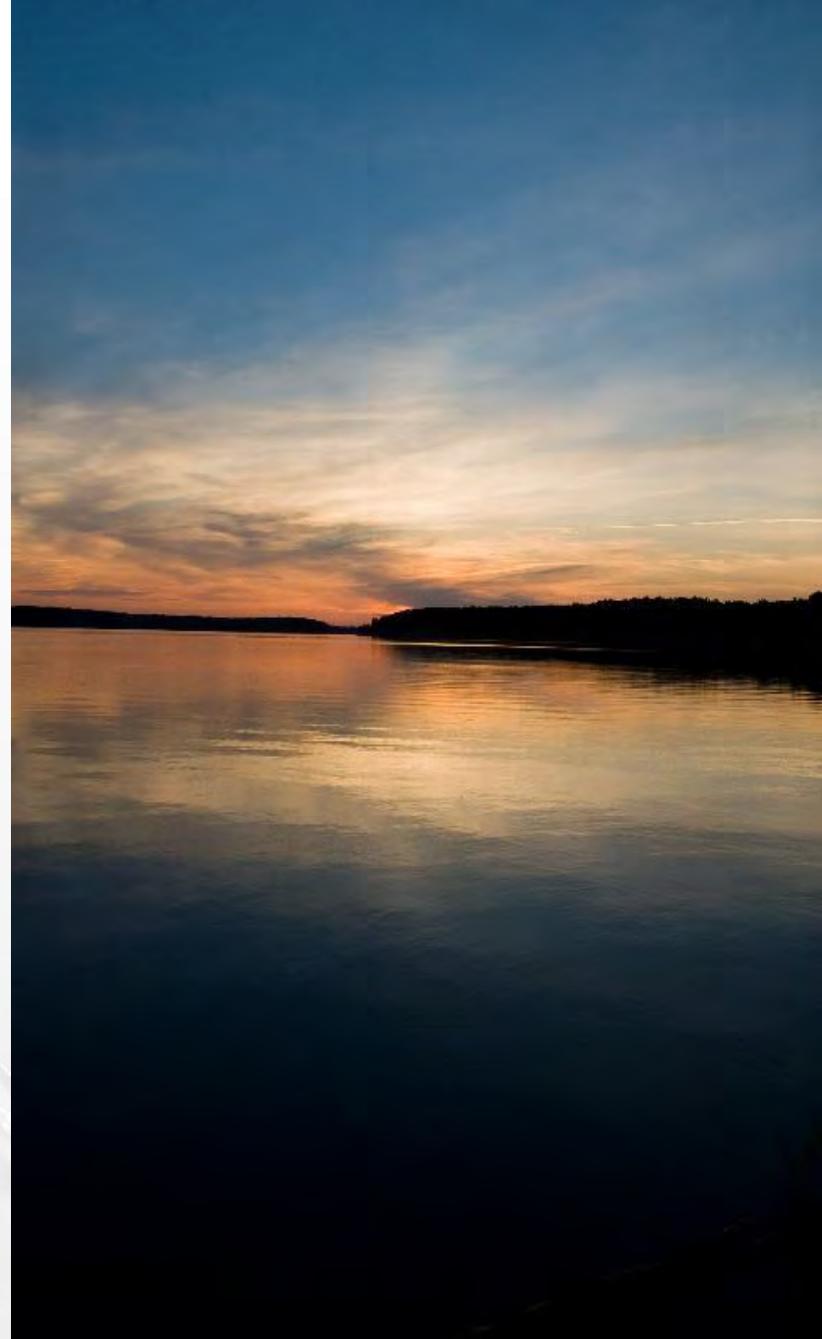
The contract between Central ND Project and Garrison Diversion would entail building and maintaining an intake in the McCusky Canal, wet well, pump station, and approximately 0.10 miles of the

Long-Term Water Resources Planning

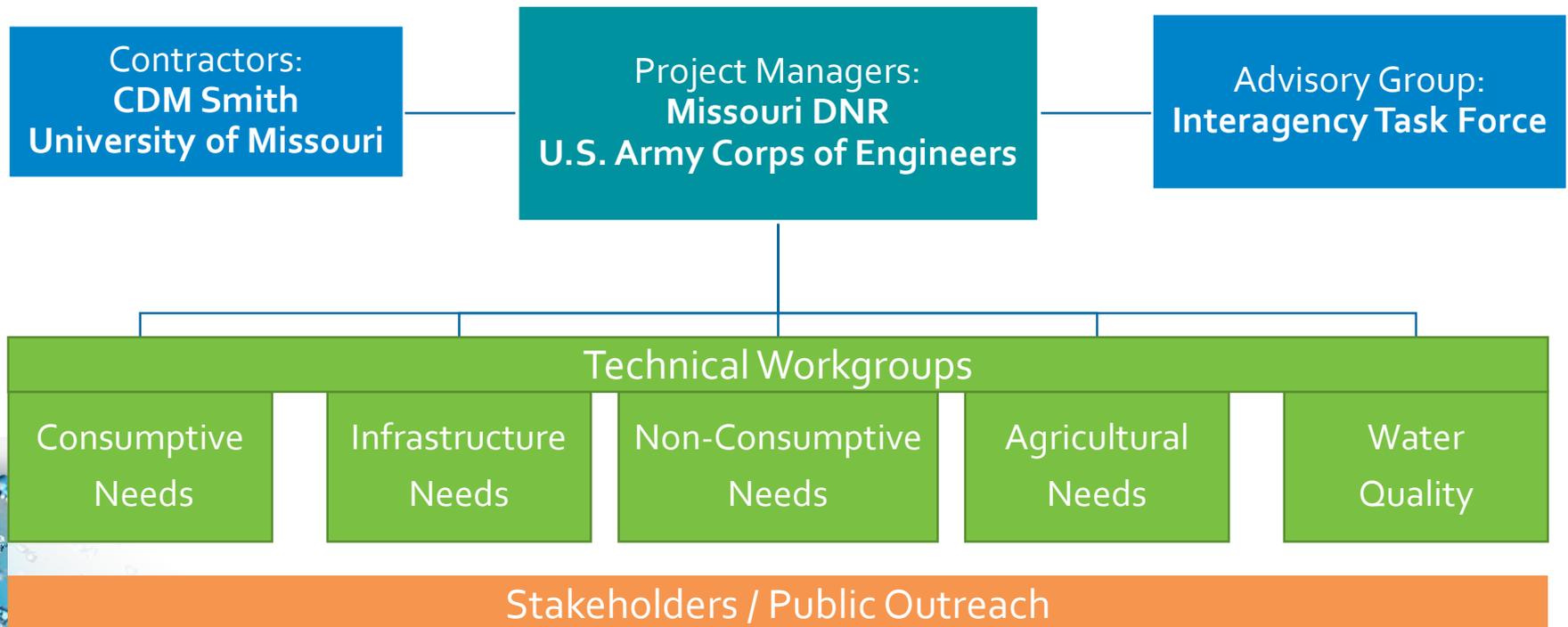


Water Plan Goals

- Provide an updated evaluation of current and future water use needs.
- Provide an updated evaluation of current and future water supply and availability.
- Identify shortfalls in water supply or infrastructure needs.
- Understand areas where developing new or more sustainable water sources, better infrastructure, and more integrated water supplies will provide an adequate supply of water resources.



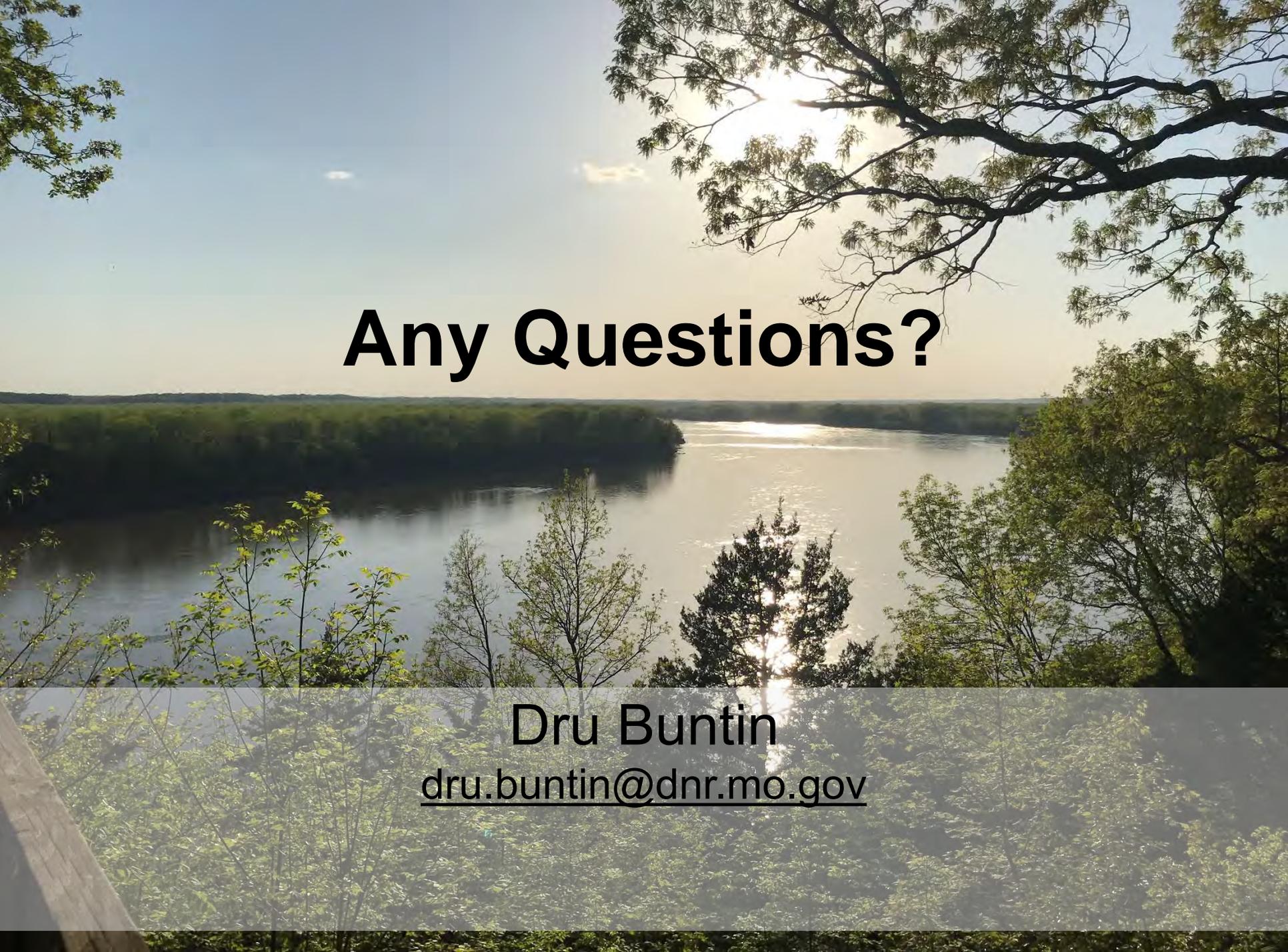
Missouri Water Resources Plan Team



Next Steps...

Missouri Drought Mitigation Plan

- Missouri Drought Plan was last updated in 2002
- New update is natural next step after Water Resources Plan update
- Planning Assistance to States
- Expanded scope will include
 - Assessment of drought types and impacts
 - Assessment of regional vulnerability
 - Assessment of current use and resiliency
 - Assessment of drought-related damages
 - Development of mitigation goals & resources



Any Questions?

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