



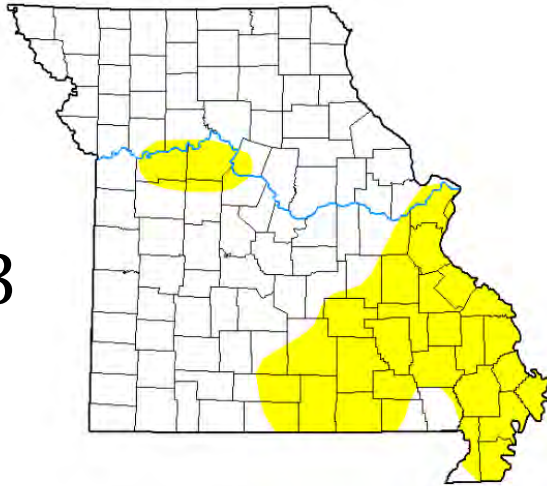
2022 Drought – A Missouri Perspective

Jennifer Hoggatt
Deputy Director
Missouri Geological Survey

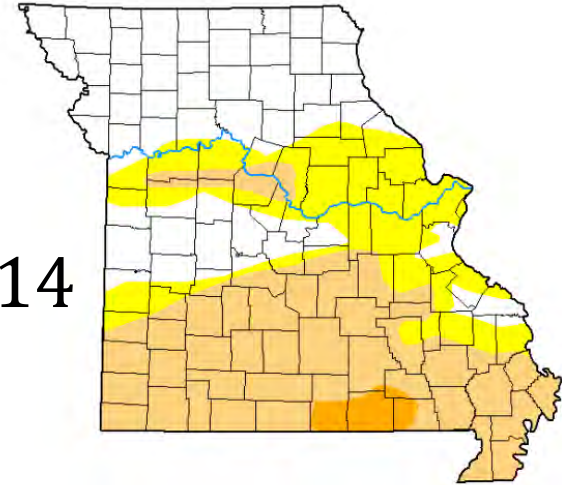


Drought Development

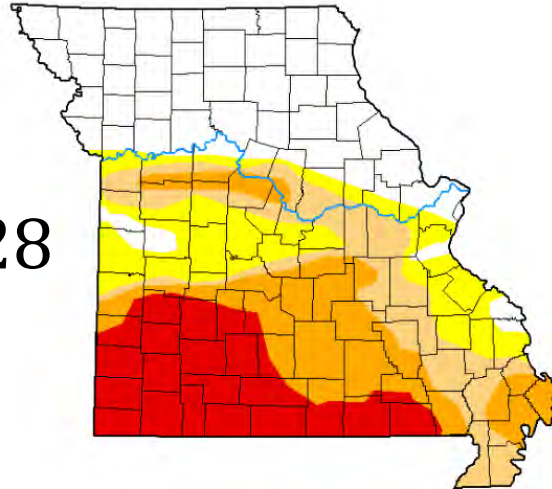
June 23



July 14

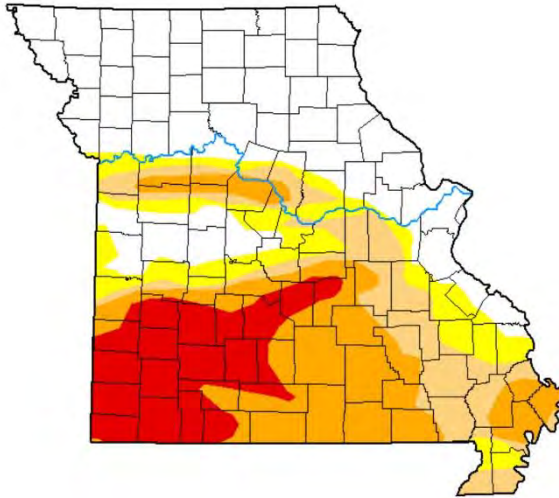


July 28

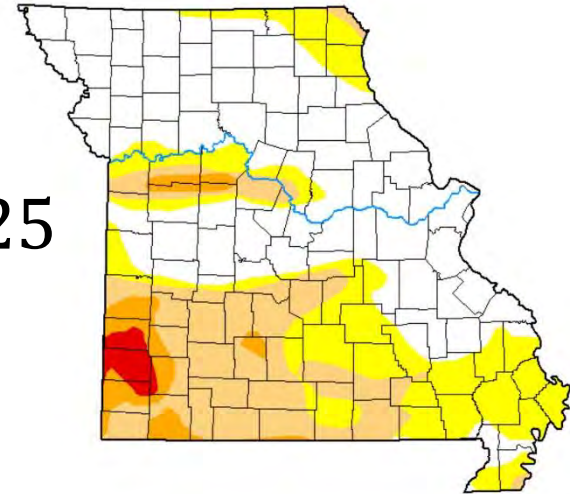


Drought Development

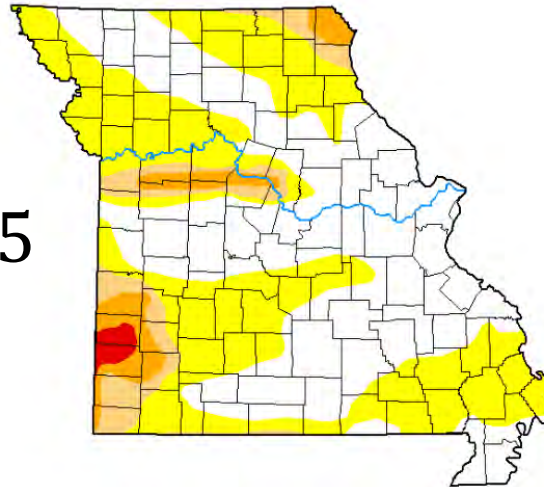
Aug. 4



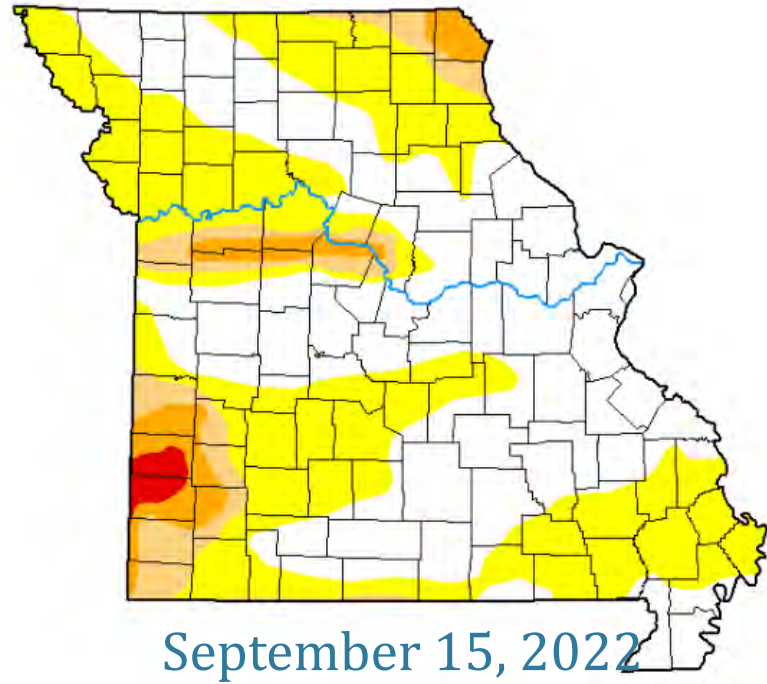
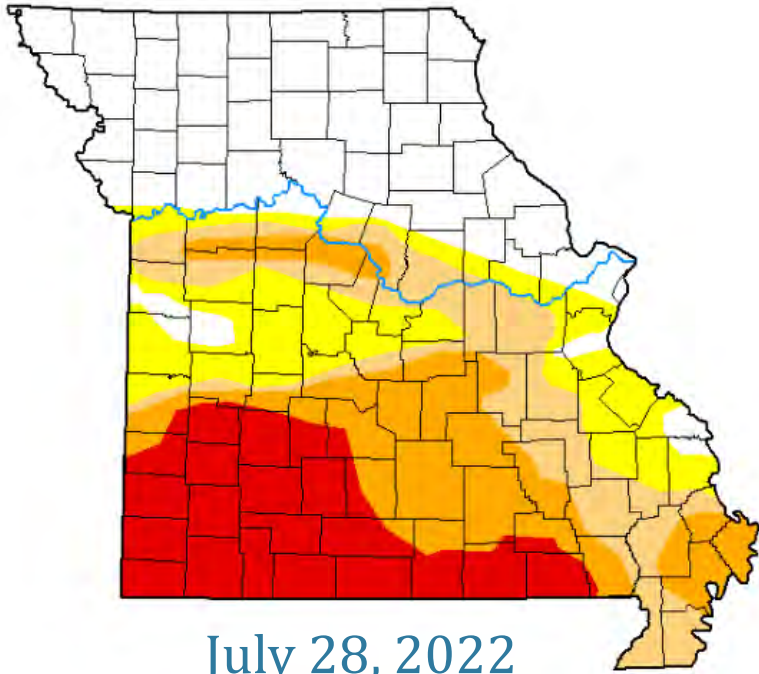
Aug. 25



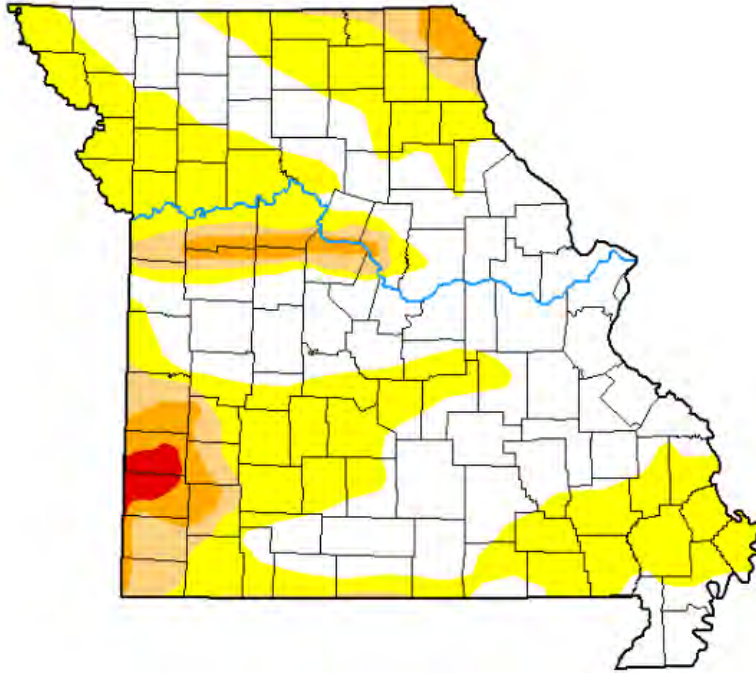
Sept. 15



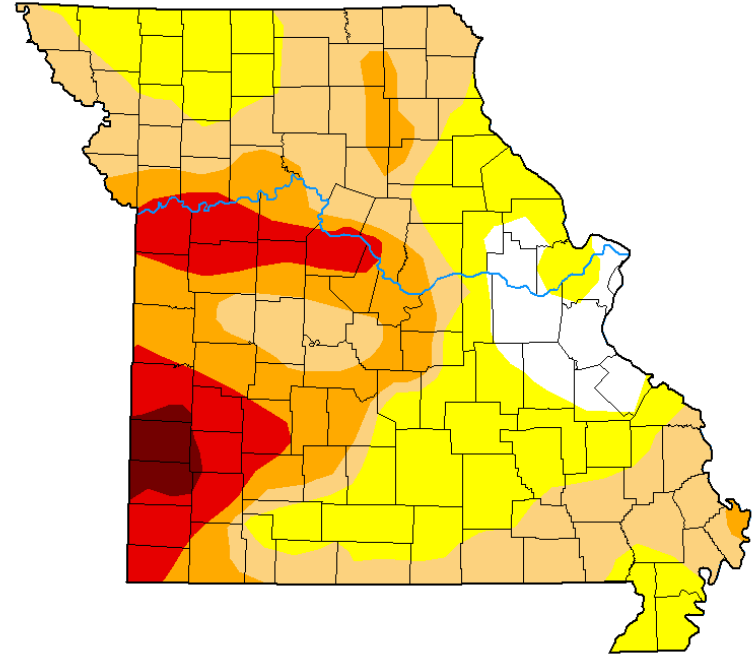
Improvement?...



Need For Continued Monitoring and Vigilance



September 15, 2022

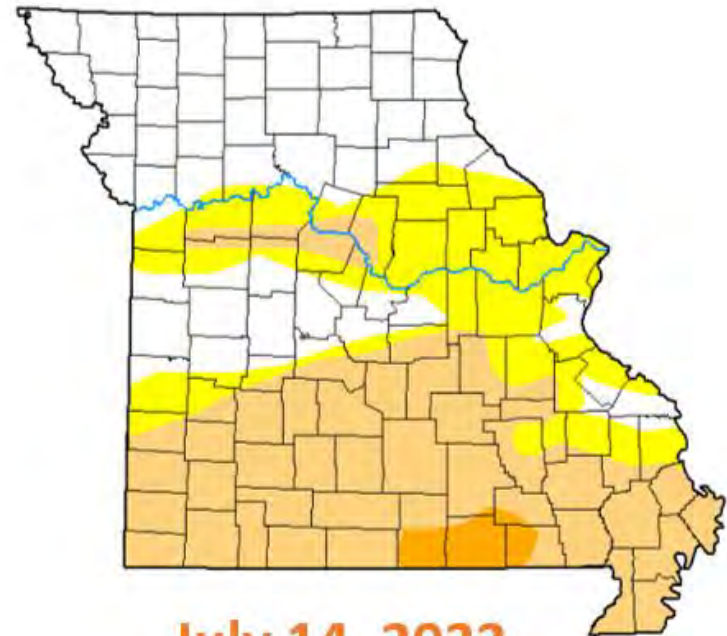


October 6, 2022

The Role of Using All Available Information – CMOR



June 23, 2022



July 14, 2022

D1: Moderate Drought Impacts?

- Topsoil is dry; corn yield is small; pastures are not growing; crops are stressed
- Urban watering is extensive
- Fire threat increases; burn bans begin
- Pond and river levels decline

On The Ground Impacts – The Value of CMOR



“The photos above were taken one year apart at the same pond (July 21, [2021] & [July 18, 2022]). The only living green thing left on that farm is ragweed, and it is extremely wilted. The herd on this farm is now on full hay and has been for ten days, and this farm is understocked. (27 adults, 8 yearlings, and 10 nursing calves on 125 acres.)”

McDonald County, MO

On The Ground Impacts – The Value of CMOR



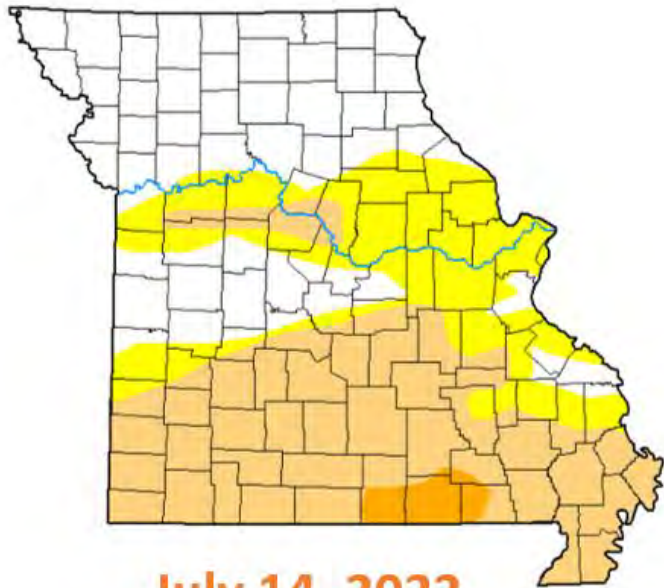
July 13, 2022



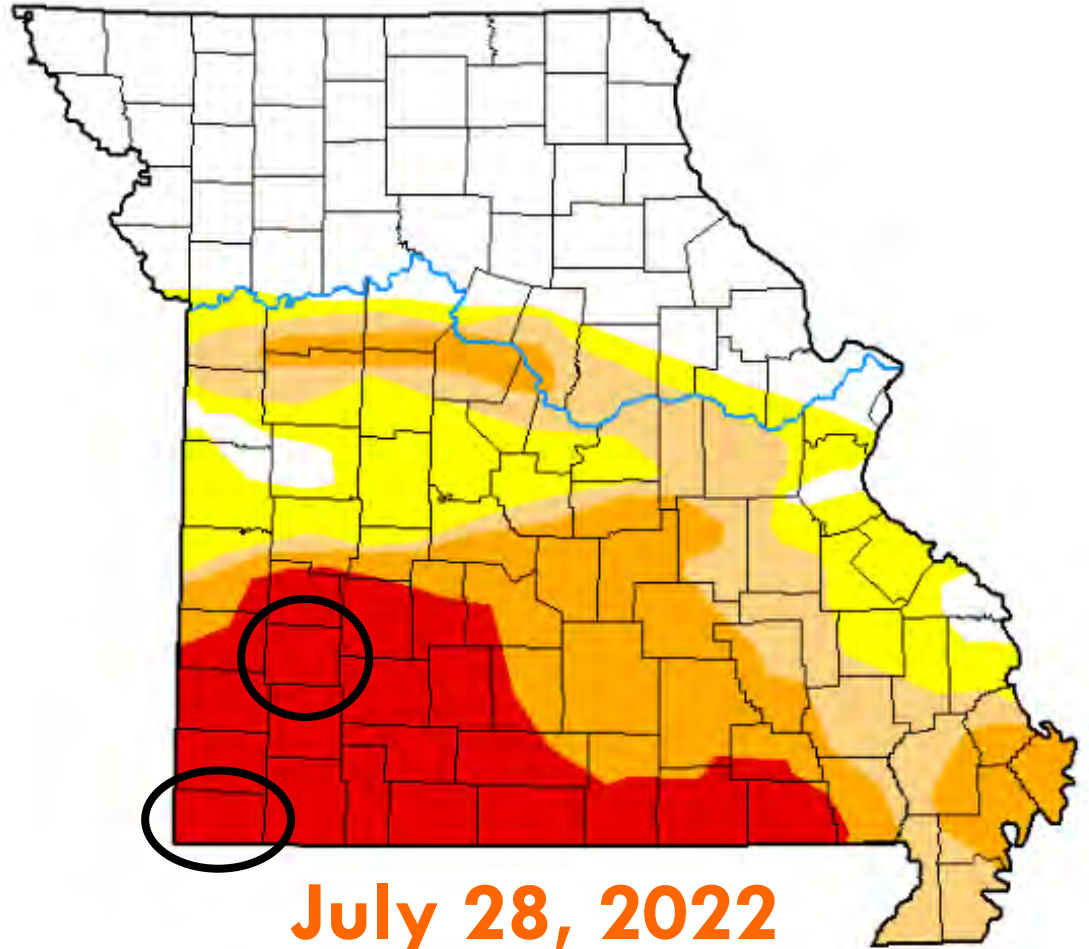
July 27, 2022

Photos Submitted by Same Reporter in
Dade County, MO

On The Ground Impacts – The Value of CMOR



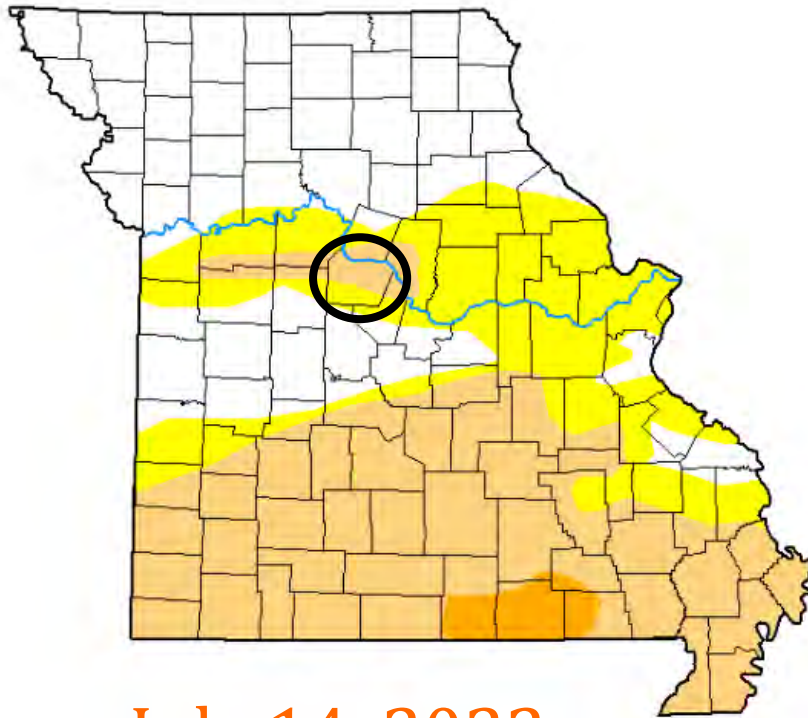
July 14, 2022



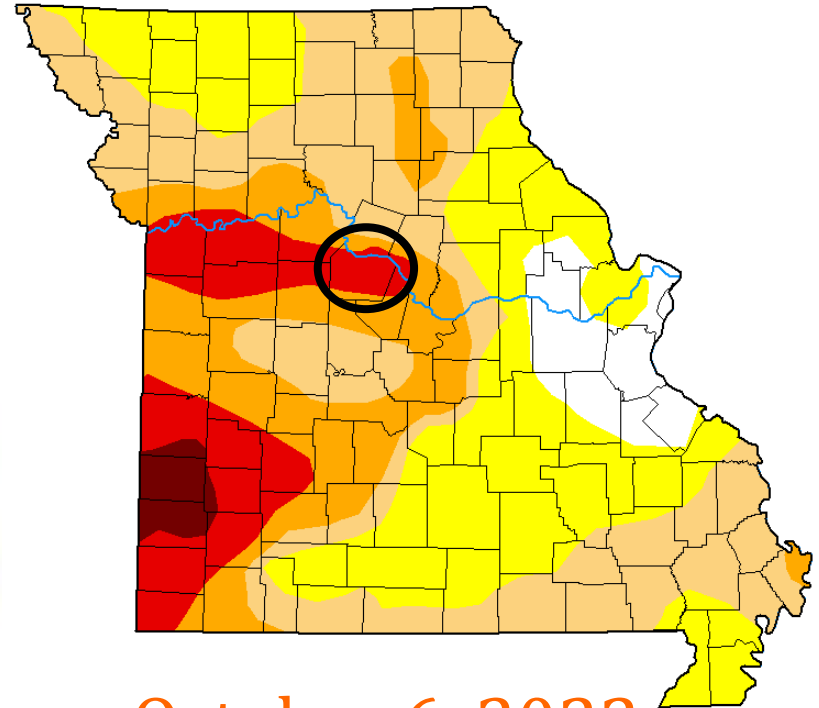
July 28, 2022

On The Ground Impacts – The Value of CMOR

Cooper County, MO



July 14, 2022



October 6, 2022

Cooper County, MO Observations



July 20, 2022



July 21, 2022



July 26, 2022

Cooper County, MO Observations



Sept. 19, 2022



October 4, 2022



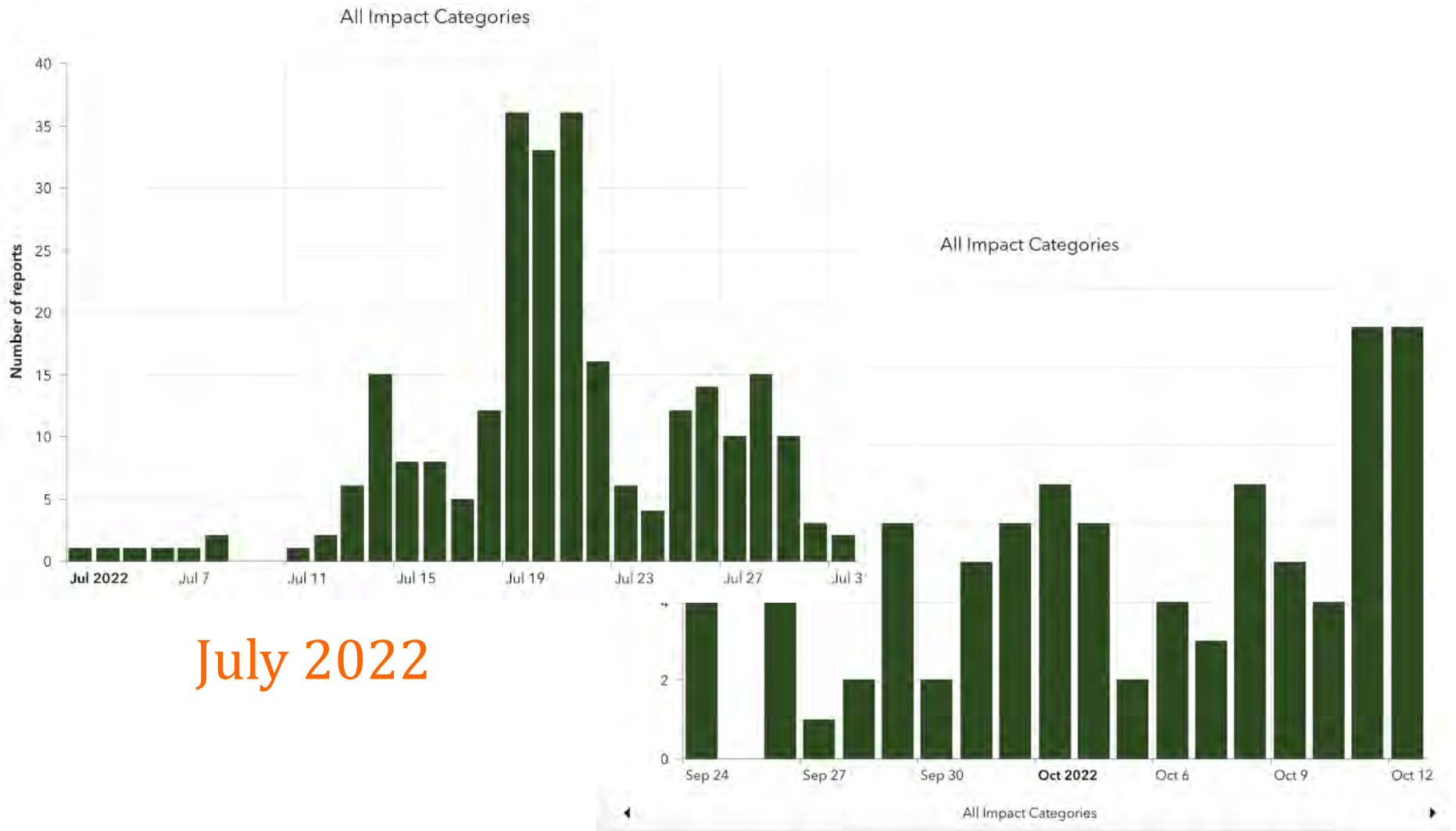
October 4, 2022

How Do We Encourage Reports?

- It's a Team Effort!
 - State Climatologist
 - University of Missouri & MU Extension
 - Missouri Department of Health
 - Missouri DNR
 - Missouri Department of Agriculture
 - Missouri State Emergency Agency
 - Drought Assessment Committee
 - Impact Team(s)

dnr.mo.gov/drought

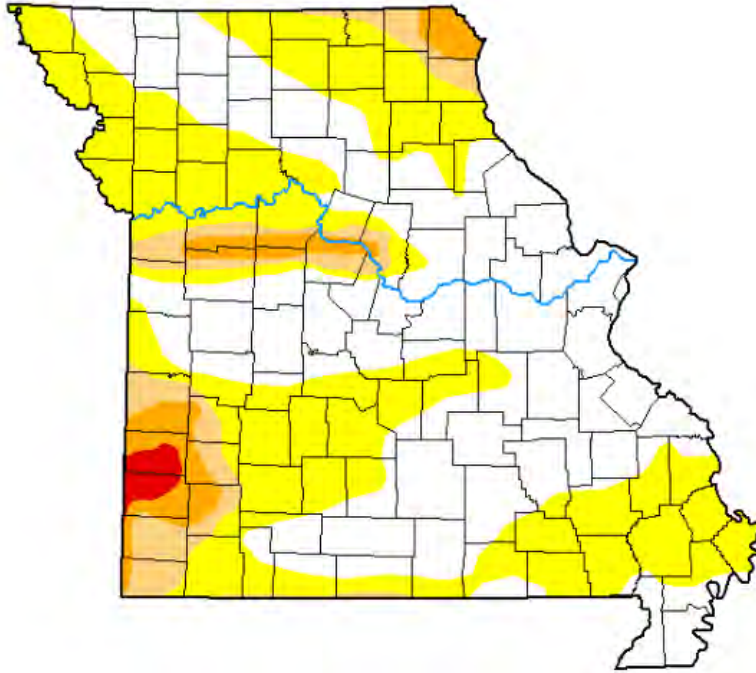
Encouraging Reports Produces Results



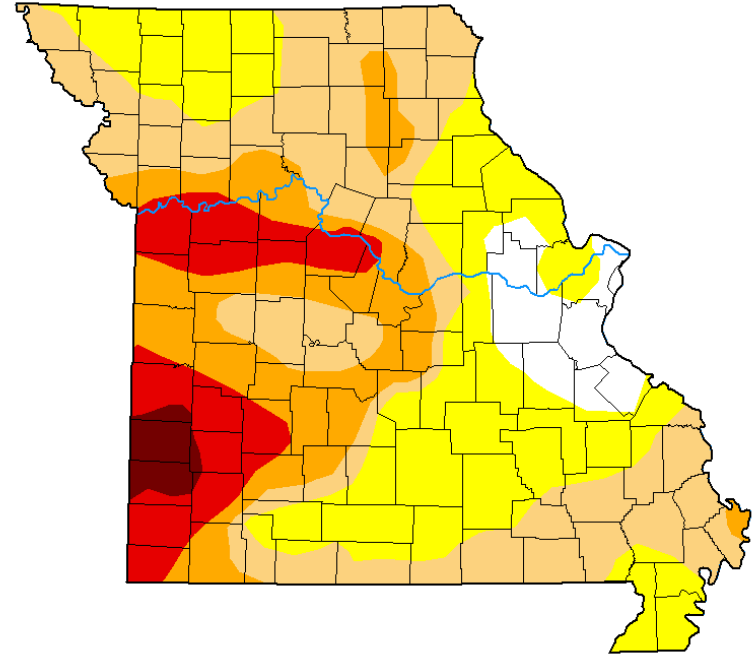
July 2022

Sept. – Oct. 2022

Need For Continued Monitoring and Vigilance



September 15, 2022



October 6, 2022

Ongoing and Emerging Impacts

- Reduced Yields/Toxins
- Continuing Impacts to Livestock Forage
- Groundwater Availability Impacts Emerging
- Navigation – Barge Groundings
- Missouri River Contribution to the Mississippi River

Barges grounded by low water halt Mississippi River traffic

The unusually low water level in the lower Mississippi River is causing barges to get stuck in the mud and sand

By JIM SALTER Associated Press
October 5, 2022, 7:41 PM

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Some Final Thoughts

Could This Be Missouri's First Multi-Year Drought in Several Decades?

If So, How Does Our Response/Mitigation Change in 2023?

A large, dynamic splash of clear water is captured in mid-air, creating a series of overlapping, curved droplets and ripples. The water is set against a solid, vibrant blue background. The splash originates from the bottom left and moves towards the top right, filling a large triangular portion of the slide. The lighting highlights the transparency and texture of the water, with bright highlights on the upper surfaces of the droplets and darker shadows in the recesses.

Thank You Questions?

A collection of several individual water droplets of varying sizes is shown in a light blue, hazy background. The droplets are in motion, with some appearing as blurred streaks and others as sharp, spherical beads. They are scattered across the right side of the slide, with a larger, more prominent droplet near the bottom right corner.

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