



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

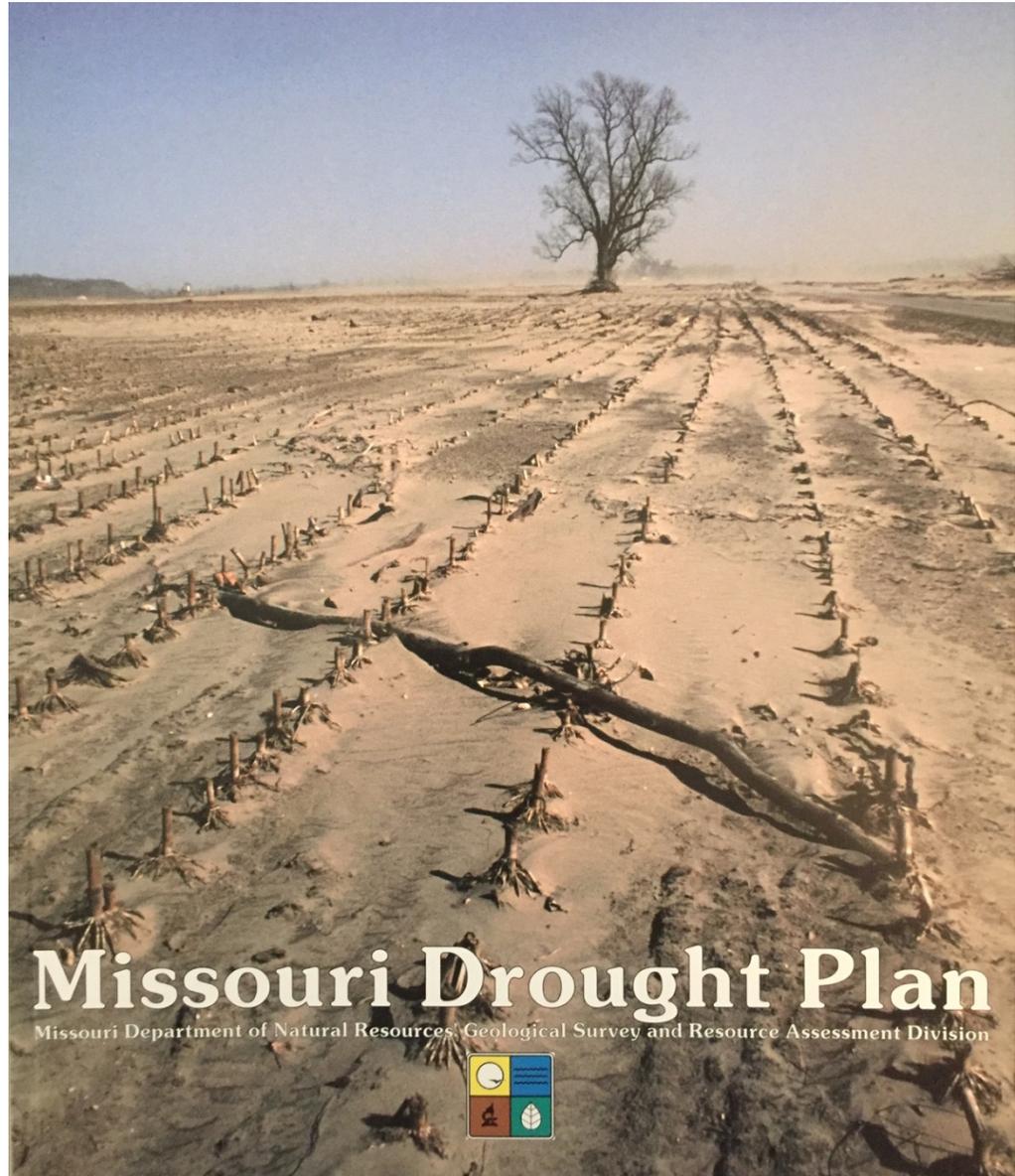
2018 Drought Response



Jennifer Hoggatt

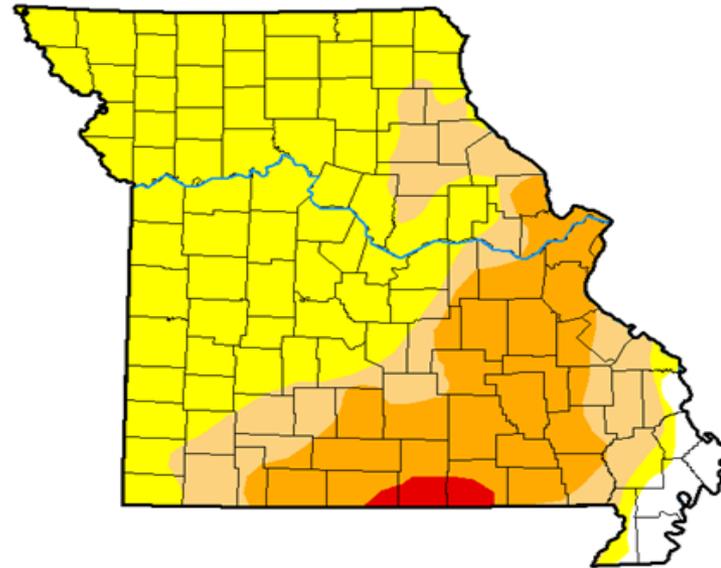
Director, Missouri Water Resources Center

Missouri Drought Response



Drought Development 2017/2018

Intensity:



December 26, 2017

- Climate and Weather Committee first met January 29, 2018.
- Conditions subsequently appeared to improve.

Drought Development

- Pat Guinan, State Climatologist, wrote:

“Record May warmth impacted Missouri with preliminary data indicating a statewide average temperature of 72.5°F, or 8.2 degrees above the long-term average. The unprecedented warmth eclipsed the prior record established in 1962. ... The extreme flip in monthly temperature anomalies, from 2nd coldest April to 1st warmest May, was nothing short of incredible. Missouri experienced a spring where April behaved more like March and May was typical of June.”

Drought Progression

U.S. Drought Monitor Missouri

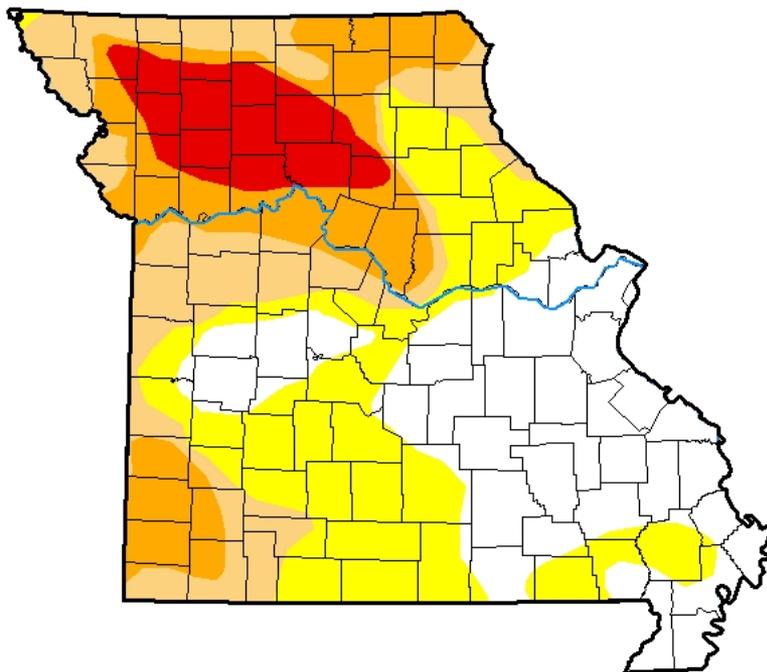
July 10, 2018

(Released Thursday, Jul. 12, 2018)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	31.25	68.75	42.21	24.61	8.21	0.00
Last Week <i>07-03-2018</i>	31.25	68.75	40.50	17.24	0.00	0.00
3 Months Ago <i>04-10-2018</i>	72.00	28.00	8.23	0.00	0.00	0.00
Start of Calendar Year <i>01-02-2018</i>	1.49	98.51	46.34	23.68	1.29	0.00
Start of Water Year <i>09-26-2017</i>	35.49	64.51	8.80	0.00	0.00	0.00
One Year Ago <i>07-11-2017</i>	94.33	5.67	0.02	0.00	0.00	0.00



Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

Brian Fuchs
National Drought Mitigation Center



Drought Response – Executive Action

- Executive Order 18-05 was issued July 18, 2018.
- The order declared a drought alert for all counties experiencing severe, extreme or exceptional drought (D2-D4).
- Counties entering drought alert would remain through the duration of the Executive Order – December 1, 2018.

Drought Assessment Committee

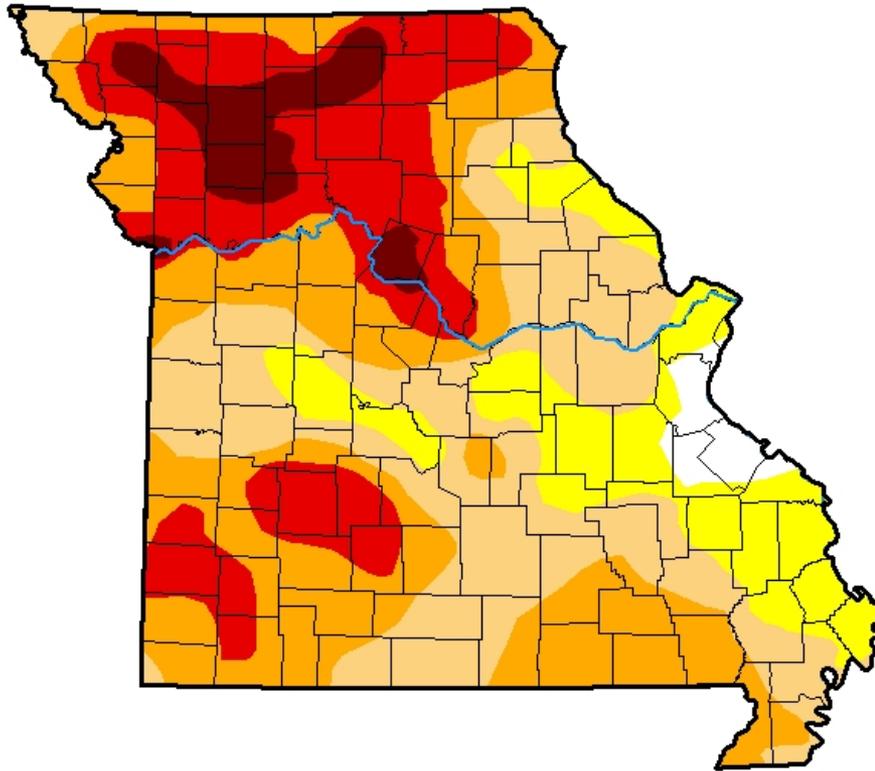
Office of the Governor
Department of Agriculture
Department of Health and Senior Services
Department of Conservation
Department of Economic Development
Department of Public Safety
MU – State Climatologist
MU – College of Agriculture, Food, and Natural Resources
USDA – Farm Services Agency
USDA – Natural Resource Conservation Service
USDA - Rural Development
U.S. Geological Survey
U.S. Army Corps of Engineers
National Oceanic and Atmospheric Administration

National Weather Service
U.S. Forest Service
U.S. Environmental Protection Agency, Region 7
Green Hills Regional Planning Commission
Northeast Missouri Regional Planning Commission
Mark Twain Council of Governments
Pioneer Trails Regional Planning Commission
Mid-MO Regional Planning Commission
Harry S Truman Coordinating Council
Southwest Missouri Council of Governments

Peak Drought Conditions

U.S. Drought Monitor Missouri

August 14, 2018
(Released Thursday, Aug. 16, 2018)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	2.24	97.76	83.33	54.45	25.45	5.54
Last Week <i>08-07-2018</i>	2.24	97.76	78.37	43.70	19.39	0.23
3 Months Ago <i>05-15-2018</i>	47.55	52.45	15.25	0.00	0.00	0.00
Start of Calendar Year <i>01-02-2018</i>	1.49	98.51	46.34	23.68	1.29	0.00
Start of Water Year <i>09-26-2017</i>	35.49	64.51	8.80	0.00	0.00	0.00
One Year Ago <i>08-15-2017</i>	82.31	17.69	4.69	0.00	0.00	0.00

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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Author:

Richard Heim
NCEI/NOAA





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Drought Action – Drinking Water



July 2018

August 2018



Drought Action – Drinking Water

- Mandatory Conservation Measures
- Emergency Financial Assistance
- Leak Detection



Drought Action – Agriculture

- Emergency Hay/Water
- MoDNR Soil and Water Practices
- Hay Transportation Restrictions
- USDA Federal Assistance



Water Hauling Access

- 28 Mo Conservation (MDC) areas; 5 MoDNR state parks
- Up to 5,000 gallons daily, per family farm.
- Water available for livestock only, not for resale.
- Farmers provide pumping/hauling equipment

Hay Lottery

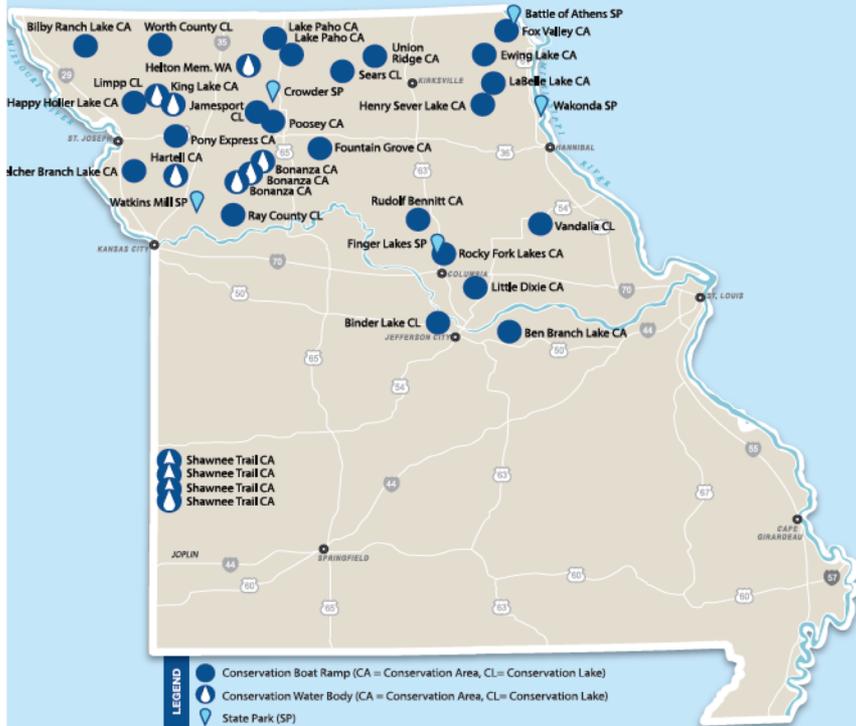
- For farmers to bale hay
- Free of charge
- Farmers provide equipment
- ~900 acres state parks land
- ~475 acres MDC land





WATER HAULING ACCESS

To make arrangements to pump water, call
573-751-4115, ext. 3209



DROUGHT ASSISTANCE

State parks and state historic sites available for haying



Drought Action – Impact Reporting



Submit a Report

Please use [this survey](#) to submit a drought condition report or impact for any location in the United States.

[Submit a Report](#)

UNIVERSITY OF MISSOURI

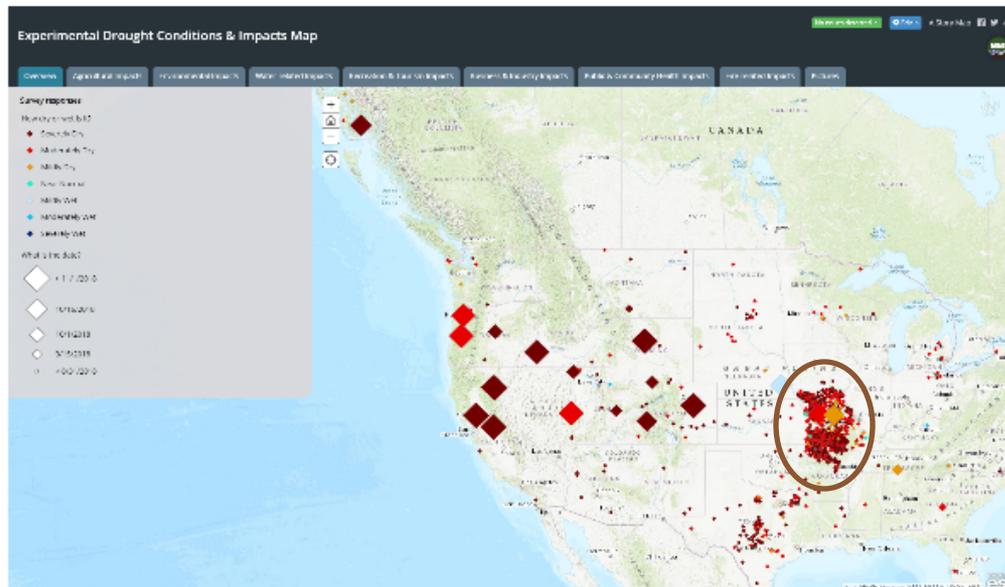


MISSOURI CLIMATE CENTER

COLLEGE OF AGRICULTURE, FOOD AND NATURAL RESOURCES



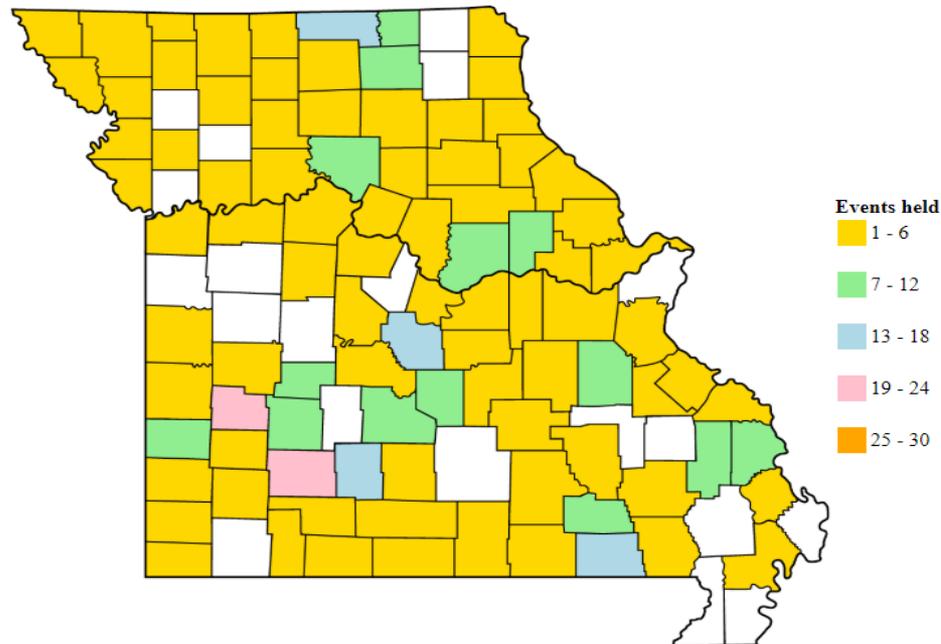
National



Please note that many Missouri observers used the national report form instead of or in addition to the Missouri Extension report form.

MU Extension Resources

- More than 40 workshops to address drought issues relating to forages and beef production.
- Other programming efforts jumped to 394 events reaching over 19,000 adults throughout the state.



2018 Drought By The Numbers

\$8,153,942

Amount of assistance committed to landowners by the Soil and Water Conservation Program

Percent of the state that experienced dry to exceptional drought conditions at the peak of the 2018 Drought

86

Number of counties in severe to exceptional drought at the peak of the 2018 Drought

1 MILLION

Drought interactions on social media sites

98

33

Number of Conservation Area (28) and State Park (5) accesses made available for free water withdrawal by agriculture producers

\$912,568 AND \$2,678,608

Amount of assistance committed to eligible public drinking water projects by the Financial Assistance Center and Department of Economic Development's Community Development Block Grants, respectively

271,679

Number of Twitter Impressions for 2018 Drought

1,374

Acres available for emergency haying access at Missouri State Parks (900) and Conservation Areas (474)

Acres made available for emergency haying under the USDA-NRCS Wetland Reserve Easement Program

15,000

Potential acres of cover crop funded through Emergency USDA-NRCS Environmental Quality Incentive Program

Number of Facebook impressions for 2018 Drought

634,106

66,000

dnr.mo.gov/drought.htm



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Thank You

Questions?

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