



# Drought Conditions Update

May 18, 2023  
9:54 AM

May 18, 2023

## Key Messages

- Drought Conditions Improved Over the Missouri Ozarks and Extreme Southeast Kansas This Week.
- Extreme (D3) Drought Removed From Extreme Southeast Kansas, West Central Missouri and parts of Central Missouri.
- Severe (D2) Drought Decreased Over Southeast Kansas and Central Missouri.
- Latest [Drought Information Statement](#)

NEW

## Important Updates

- Drought conditions improved over much of the area.

## Next Scheduled Briefing

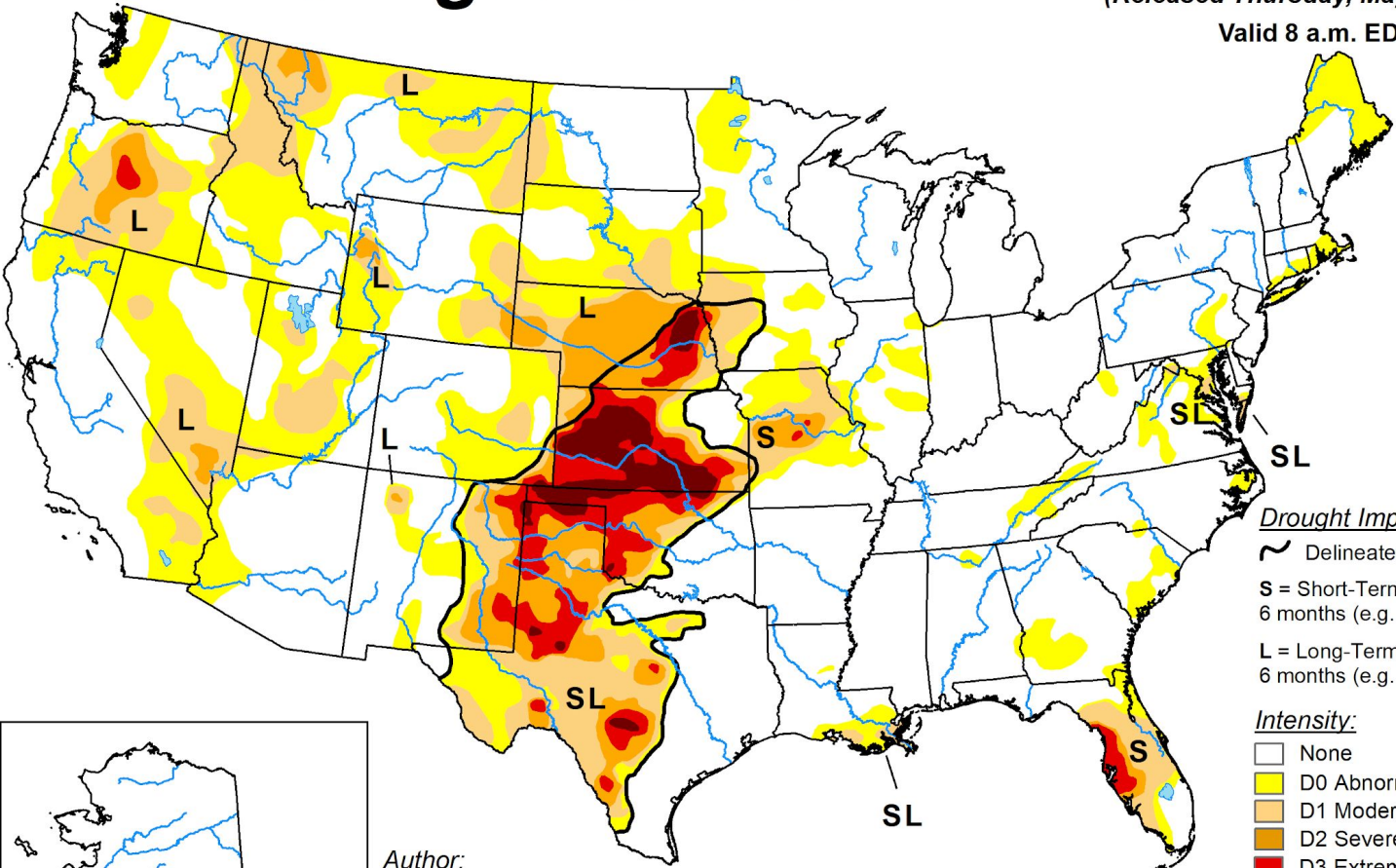
- Thursday June 1, 2023

## U.S. Drought Monitor

May 16, 2023

(Released Thursday, May. 18, 2023)

Valid 8 a.m. EDT



### Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

### Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

Author:  
Brad Rippey  
U.S. Department of Agriculture

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>



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National Oceanic and  
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National Weather Service  
Springfield, MO



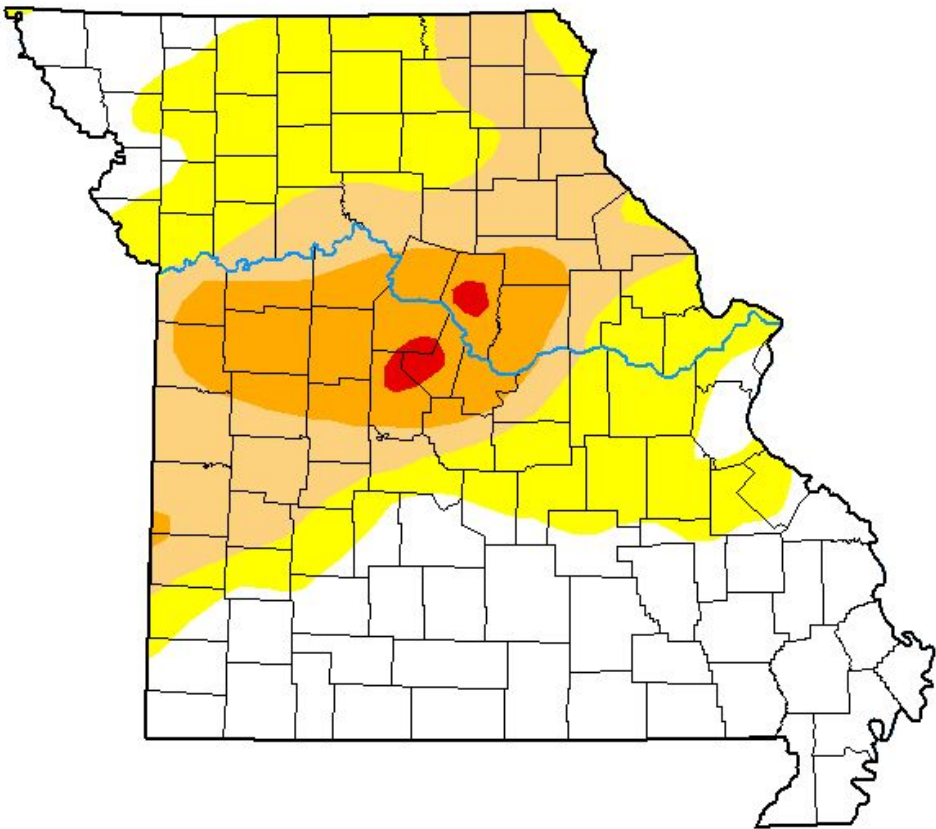
# Missouri Drought Monitor

May 18, 2023  
9:54 AM

## Overview

- Extreme (D3) drought area remains over a couple of small areas of central MO.
- Severe (D2) drought extends along and south of the Missouri River and covers over 10% of the state.
- Moderate (D1) drought extends from northeast to west central Missouri.
- Moderate (D1), Severe (D2) and Extreme (D3) drought covers 32 percent of the state, which is a decrease from 36 percent last week.

## U.S. Drought Monitor Missouri



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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	39.64	60.36	32.32	11.89	0.72	0.00
Last Week 05-09-2023	15.30	84.70	36.61	19.62	2.13	0.00
3 Months Ago 02-14-2023	86.20	13.80	1.82	0.38	0.00	0.00
Start of Calendar Year 01-03-2023	50.31	49.69	12.51	1.61	0.00	0.00
Start of Water Year 09-27-2022	18.48	81.52	56.59	15.39	4.83	1.92
One Year Ago 05-17-2022	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

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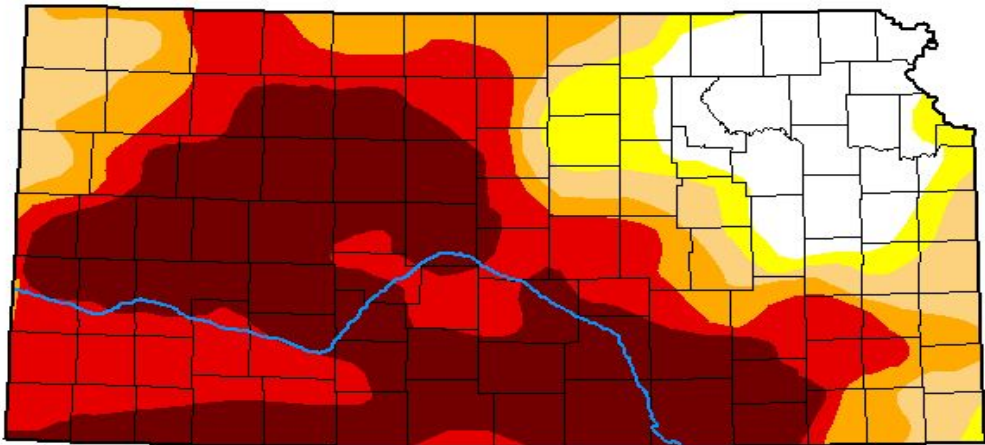
# Kansas Drought Monitor

May 18, 2023  
9:54 AM

## Overview

- Drought improvements occurred over portions of northwest, northeast, central and southeast Kansas.
- Much of Kansas remains in Extreme (D3) to Exceptional (D4) Drought.
- Exceptional (D4) drought covers over 35 percent of the state.
- 81 percent of the state is classified as being in Moderate (D1), Severe (D2), Extreme (D3) or Exceptional (D4) Drought.

## U.S. Drought Monitor Kansas



**May 16, 2023**  
(Released Thursday, May. 18, 2023)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	12.80	87.20	81.04	70.80	59.69	35.49
Last Week 05-09-2023	7.96	92.04	84.51	76.53	64.44	41.10
3 Months Ago 02-14-2023	7.24	92.76	74.71	66.67	54.51	37.41
Start of Calendar Year 01-03-2023	0.53	99.47	84.47	68.86	57.02	36.85
Start of Water Year 09-27-2022	1.48	98.52	82.55	67.05	52.70	24.90
One Year Ago 05-17-2022	28.25	71.75	66.36	46.36	26.27	4.09

Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

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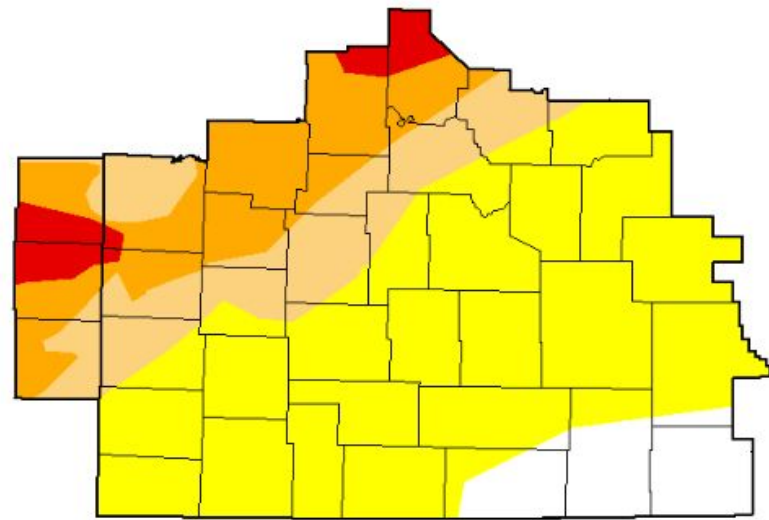
Author:  
Brad Rippey  
U.S. Department of Agriculture



# Drought Monitor Weekly Comparison

May 18, 2023  
9:54 AM

## U.S. Drought Monitor Springfield, MO WFO



**May 9, 2023**  
(Released Thursday, May. 11, 2023)  
Valid 8 a.m. EDT

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	8.70	91.30	34.84	19.22	3.68	0.00
Last Week 05-02-2023	61.92	38.08	26.21	18.66	3.87	0.00
3 Months Ago 02-07-2023	58.66	41.34	15.31	9.30	1.42	0.00
Start of Calendar Year 01-03-2023	67.05	32.95	17.89	9.63	1.63	0.00
Start of Water Year 09-27-2022	25.36	74.64	57.79	28.92	17.48	9.99
One Year Ago 05-10-2022	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:  
None D2 Severe Drought  
D0 Abnormally Dry D3 Extreme Drought  
D1 Moderate Drought D4 Exceptional Drought

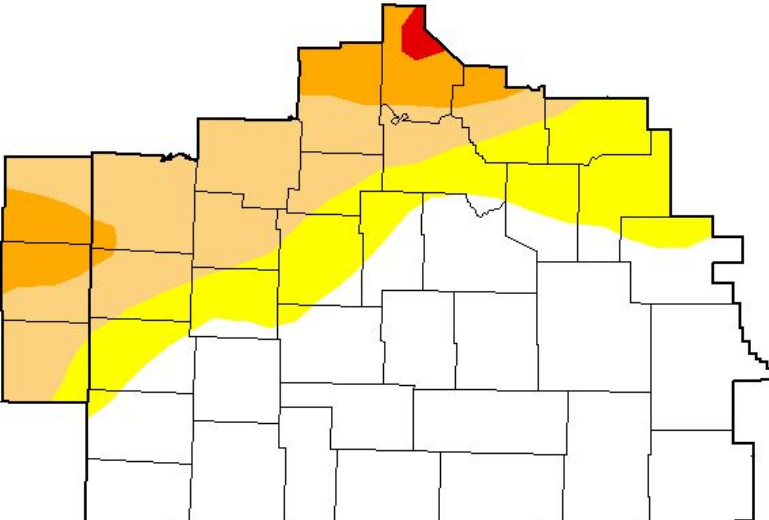
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Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

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## U.S. Drought Monitor Springfield, MO WFO



**May 16, 2023**  
(Released Thursday, May. 18, 2023)  
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	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	56.67	43.33	26.67	7.19	0.47	0.00
Last Week 05-09-2023	8.70	91.30	34.84	19.22	3.68	0.00
3 Months Ago 02-14-2023	84.55	15.45	9.29	2.62	0.00	0.00
Start of Calendar Year 01-03-2023	67.05	32.95	17.89	9.63	1.63	0.00
Start of Water Year 09-27-2022	25.36	74.64	57.79	28.92	17.48	9.99
One Year Ago 05-17-2022	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:  
None D2 Severe Drought  
D0 Abnormally Dry D3 Extreme Drought  
D1 Moderate Drought D4 Exceptional Drought

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May 11th Drought Monitor

May 18th Drought Monitor



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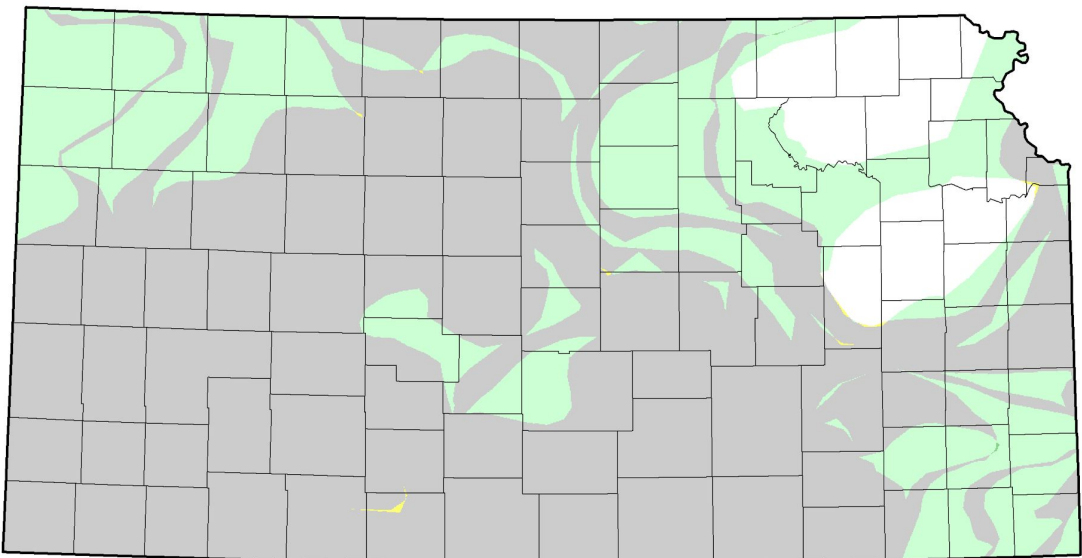


# Drought Monitor Weekly Change

May 18, 2023  
9:54 AM

1 Drought Class Improvement Over Southeast Kansas and Southern Missouri

U.S. Drought Monitor Class Change - Kansas  
1 Week

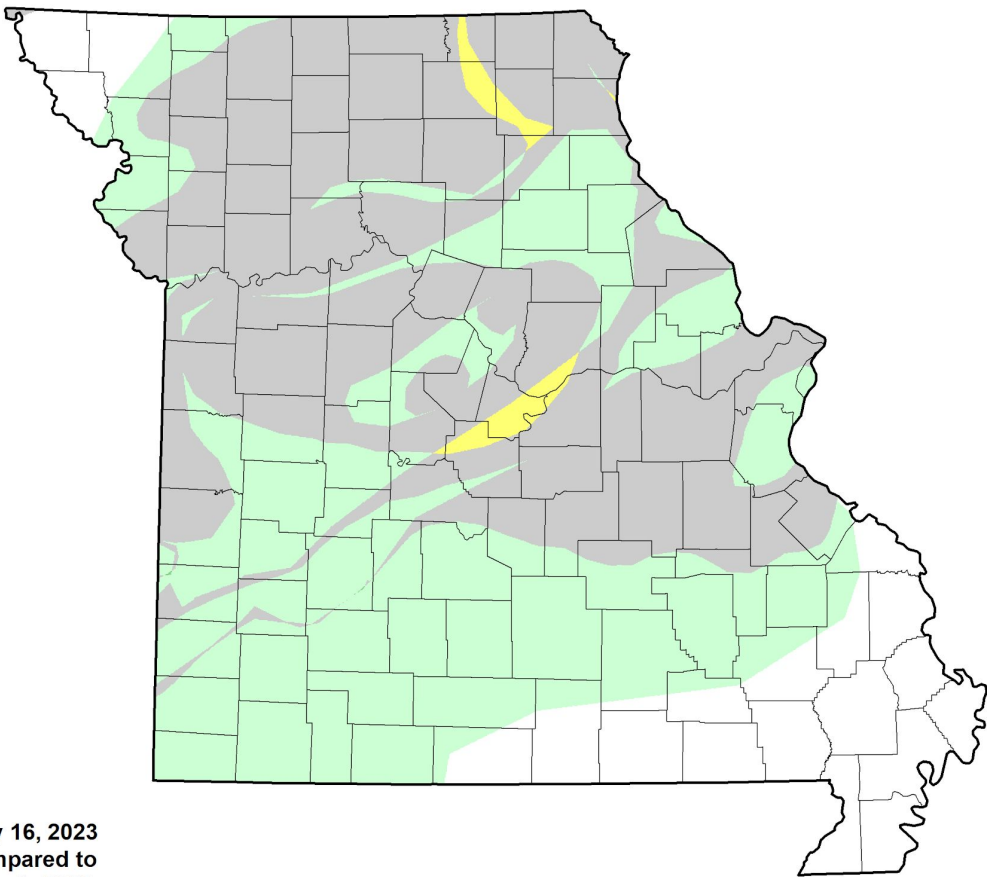


- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement

May 16, 2023  
compared to  
May 9, 2023

[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

U.S. Drought Monitor Class Change - Missouri  
1 Week



- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement

May 16, 2023  
compared to  
May 9, 2023

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Springfield, MO



# May 25th - May 31st Outlook

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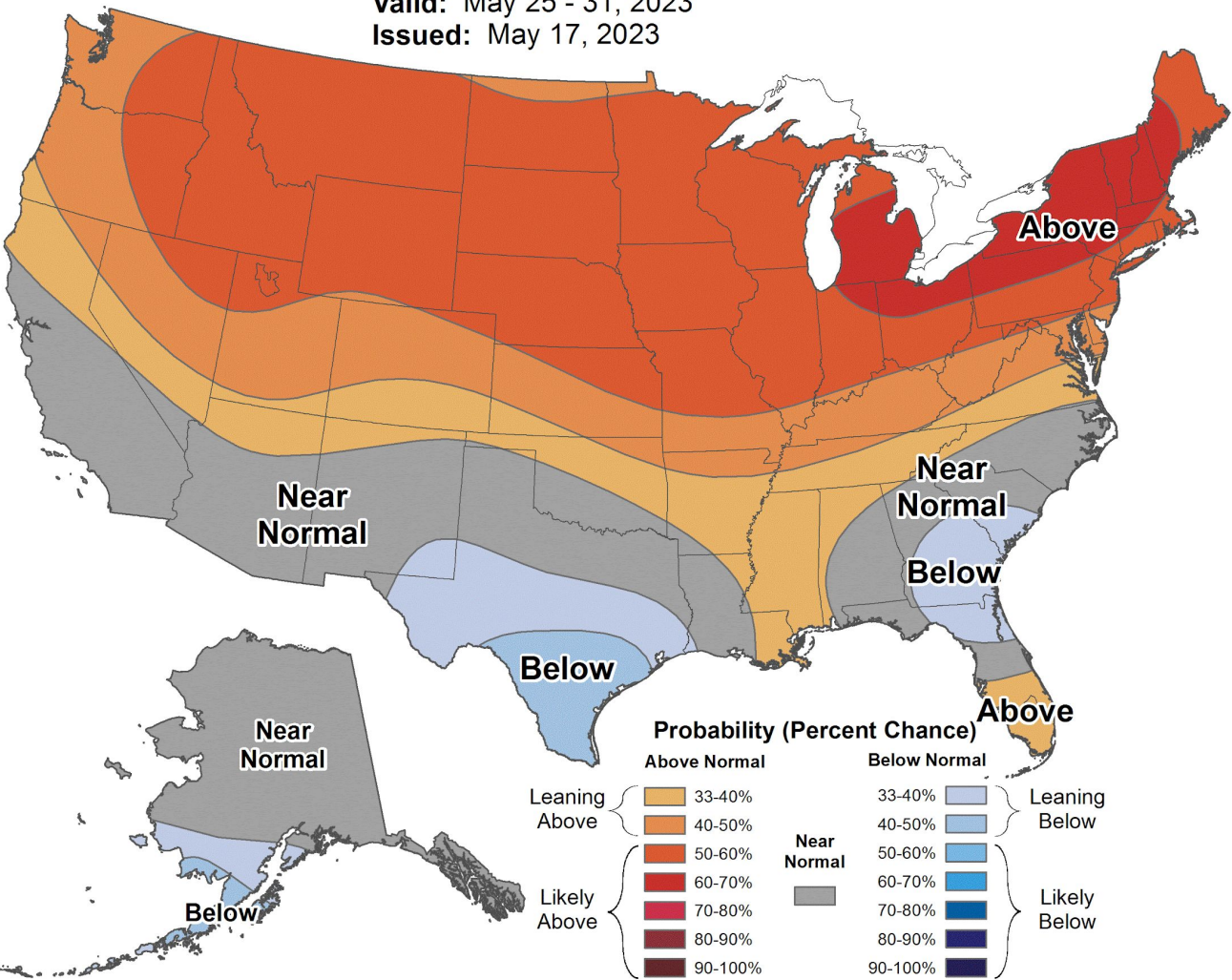
Above Normal Temperatures and Near Normal Precipitation are Favored



## 8-14 Day Temperature Outlook



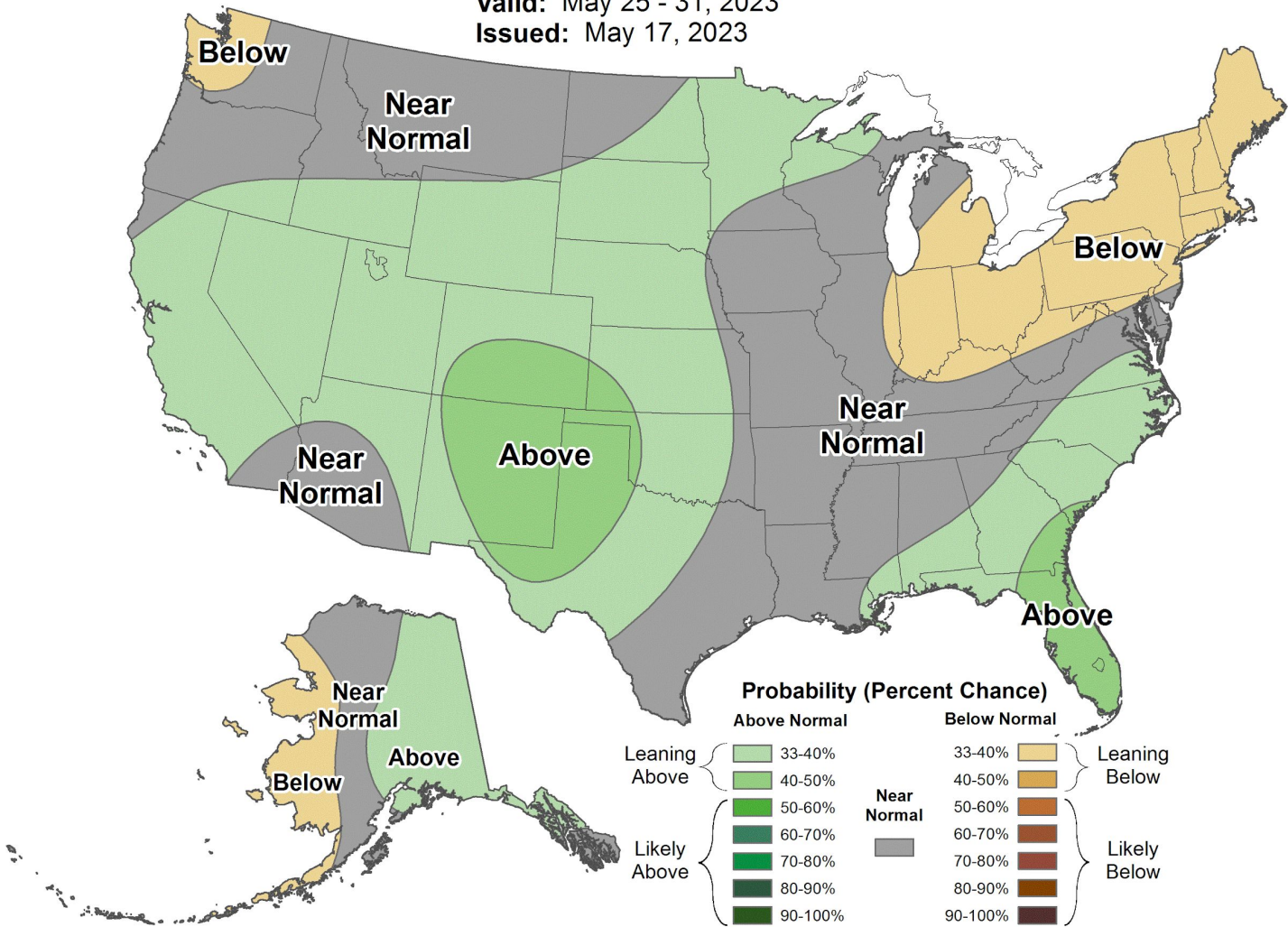
Valid: May 25 - 31, 2023  
Issued: May 17, 2023



## 8-14 Day Precipitation Outlook



Valid: May 25 - 31, 2023  
Issued: May 17, 2023







# June through August Outlook

May 18, 2023  
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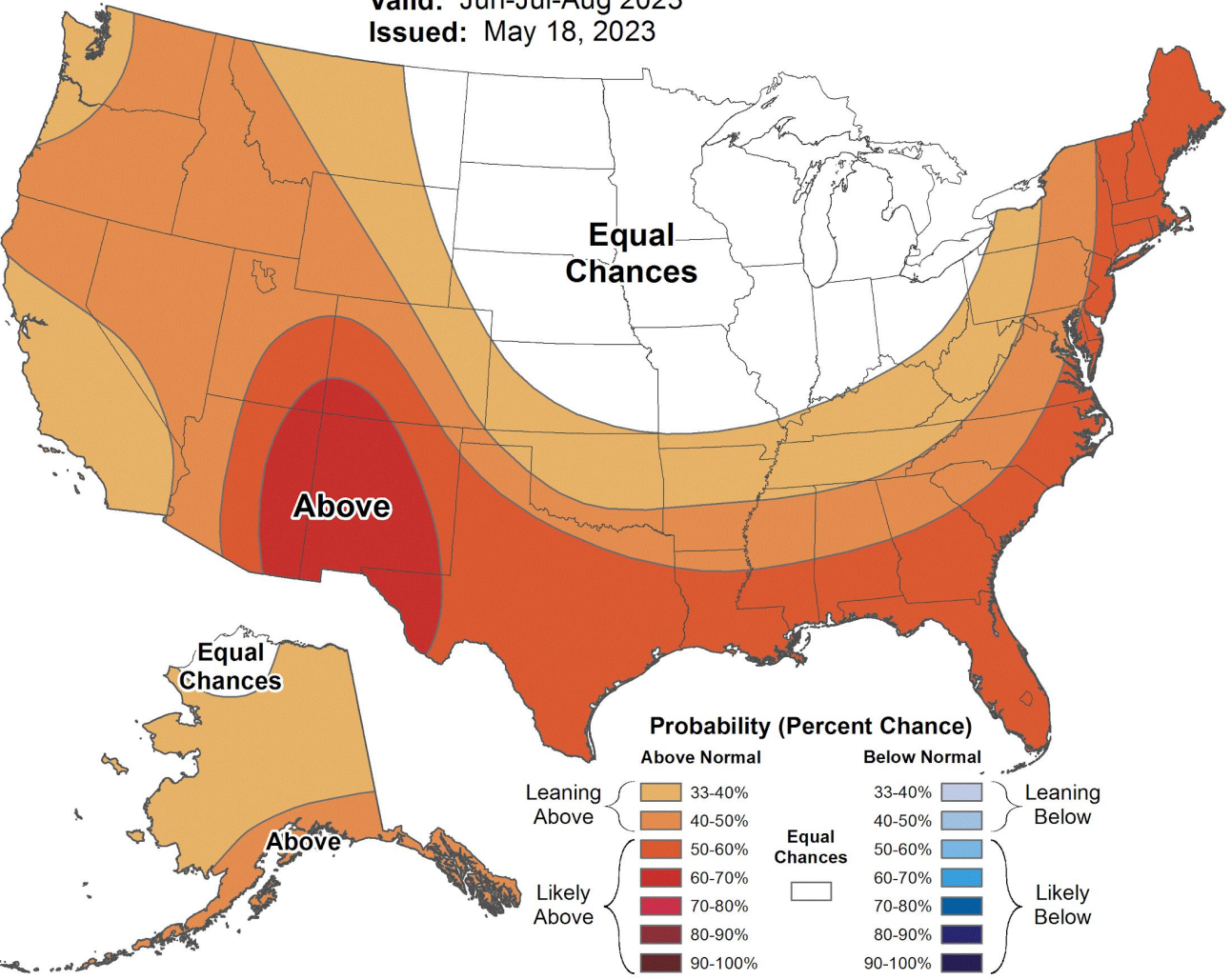
Near to Above Normal Temperatures and Above Normal Precipitation Favored



## Seasonal Temperature Outlook



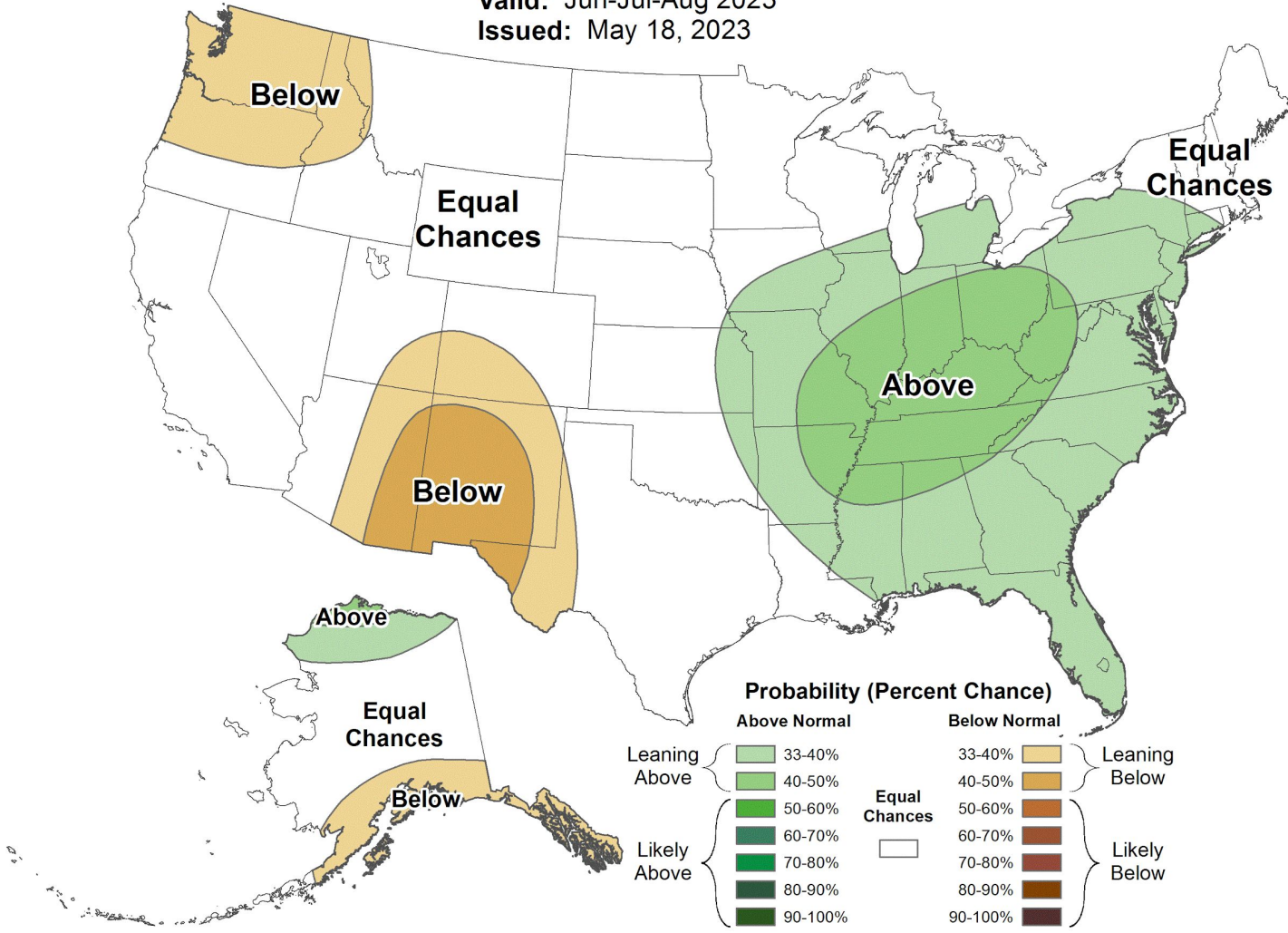
Valid: Jun-Jul-Aug 2023  
Issued: May 18, 2023



## Seasonal Precipitation Outlook



Valid: Jun-Jul-Aug 2023  
Issued: May 18, 2023







# Seasonal Drought Outlook

May 18, 2023  
9:54 AM

May 18 - August 31, 2023

## Drought Worsens



## Drought Persists

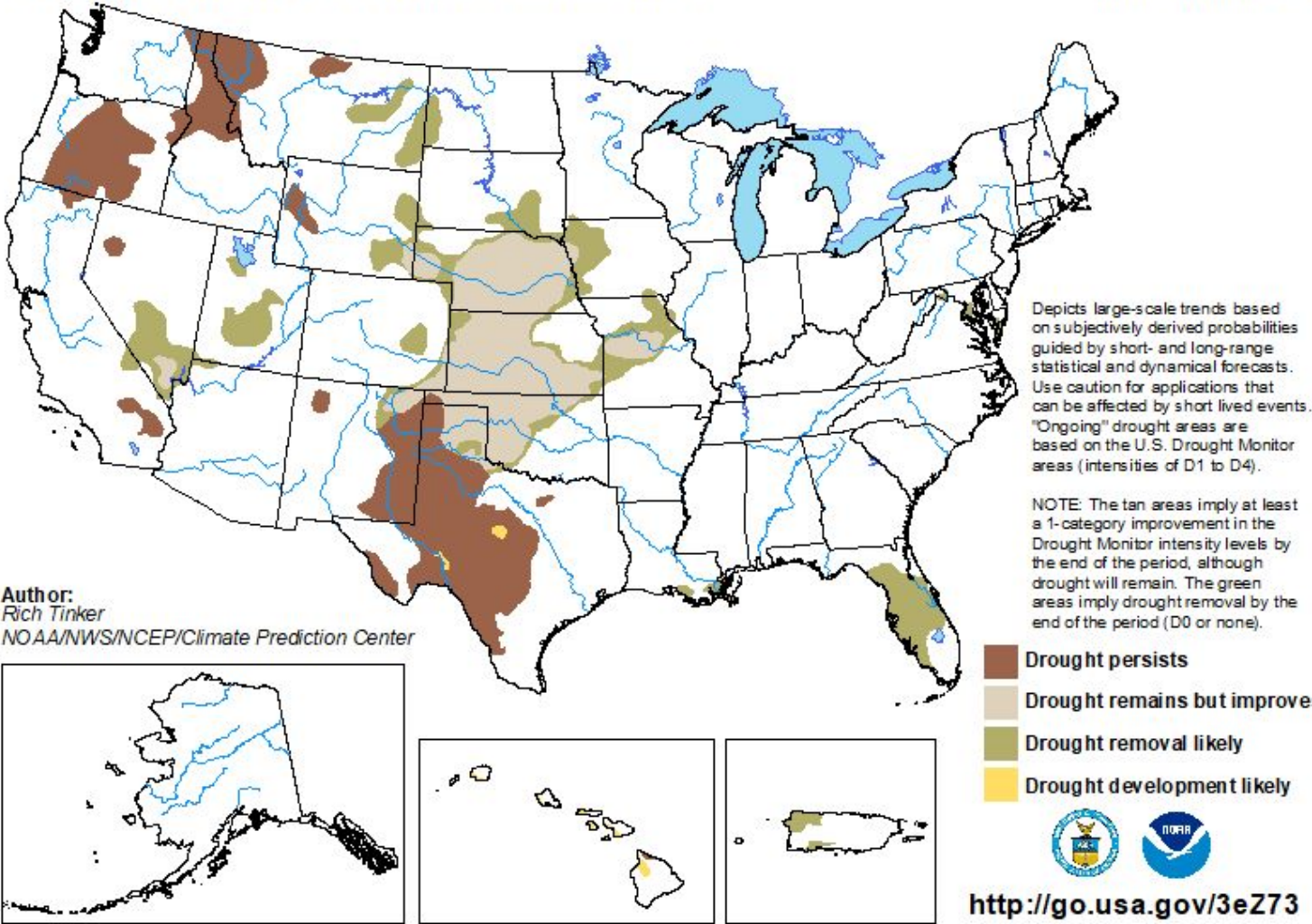


## Drought Removal



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

Valid for May 18 - August 31, 2023  
Released May 18







# Drought Classification

## Drought Information

- [State Impacts](#)
- [Drought Impacts Toolkit](#)
- [Drought Monitor Archive](#)

Category	Description	Possible Impacts	Ranges				
			Palmer Drought Severity Index (PDSI)	CPC Soil Moisture Model (Percentiles)	USGS Weekly Streamflow (Percentiles)	Standardized Precipitation Index (SPI)	Objective Drought Indicator Blends (Percentiles)
D0	Abnormally Dry	Going into drought: <ul style="list-style-type: none"><li>short-term dryness slowing planting, growth of crops or pastures</li></ul> Coming out of drought: <ul style="list-style-type: none"><li>some lingering water deficits</li><li>pastures or crops not fully recovered</li></ul>	-1.0 to -1.9	21 to 30	21 to 30	-0.5 to -0.7	21 to 30
D1	Moderate Drought	<ul style="list-style-type: none"><li>Some damage to crops, pastures</li><li>Streams, reservoirs, or wells low, some water shortages developing or imminent</li><li>Voluntary water-use restrictions requested</li></ul>	-2.0 to -2.9	11 to 20	11 to 20	-0.8 to -1.2	11 to 20
D2	Severe Drought	<ul style="list-style-type: none"><li>Crop or pasture losses likely</li><li>Water shortages common</li><li>Water restrictions imposed</li></ul>	-3.0 to -3.9	6 to 10	6 to 10	-1.3 to -1.5	6 to 10
D3	Extreme Drought	<ul style="list-style-type: none"><li>Major crop/pasture losses</li><li>Widespread water shortages or restrictions</li></ul>	-4.0 to -4.9	3 to 5	3 to 5	-1.6 to -1.9	3 to 5
D4	Exceptional Drought	<ul style="list-style-type: none"><li>Exceptional and widespread crop/pasture losses</li><li>Shortages of water in reservoirs, streams, and wells creating water emergencies</li></ul>	-5.0 or less	0 to 2	0 to 2	-2.0 or less	0 to 2





## For Additional Information

- [NWS Springfield Webpage](#)
- [IDSS Point Forecasts](#)
- [NWS Springfield Drought Monitor Resources](#)
- [Graphical Hazardous Weather Outlook](#)
- [Missouri Drought Monitor | Kansas Drought Monitor](#)
- [CPC Drought Information](#)
- [National Integrated Drought Information System \(NIDIS\)](#)
- [National Drought Mitigation Center \(NDMC\)](#)
- [Missouri USGS Streamflows | Kansas USGS Streamflows](#)
- [Drought Safety](#)

## Drought Impacts



### Agriculture

Farms, ranches, and grazing lands suffer, and increases the cost of their products



### Public Health

A decrease of water can lead to an increase of illness, disease, mortality rates, and adverse mental health



### Ecosystems

Harms fish, wildlife, and plants, as well as the benefits these ecosystems provide



### Wildfire Management

Dry, hot, and windy weather combined with dried out vegetation can lead to more large-scale wildfires



### Manufacturing

Interruptions in the water supply can result in a reduction of productivity or closure of facilities



### Energy

Production of all types of energy requires water, and drought can severely impact energy systems and prices

## During a Drought be Vigilant

Conserve Water

Practice Fire Prevention

Follow Directions from Local Officials

Trinity Lake, CA, dry lakebed during California Drought, 2014. Photo: USGS



weather.gov/drought