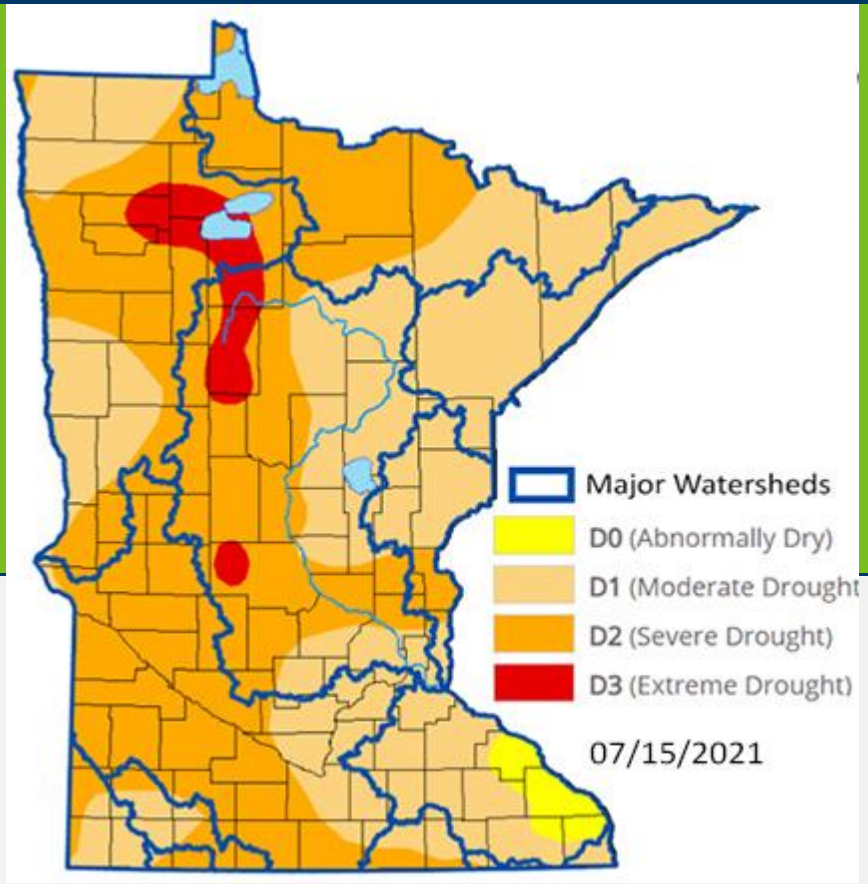
DEPARTMENT OF NATURAL RESOURCES

STAND BY…

The State Drought Task Force meeting will start soon



July 21, 2021

DEPARTMENT OF NATURAL RESOURCES

Randall Doneen

Section Manager – Conservation Assistance and Regulation
Ecological and Water Resources Division

July 21, 2021

Agenda

• Welcome	Randall Doneen
• Purpose of meeting	Katie Smith
• Drought situation review and update	Luigi Romolo
• Agency actions / introductions	Task Force
• Drought issues discussion	All
• Next steps / adjourn	Randall Doneen

DEPARTMENT OF NATURAL RESOURCES

Katie Smith

Director

Ecological and Water Resources Division

July 21, 2021

DEPARTMENT OF NATURAL RESOURCES

Drought Status Update
Drought Task Force, July 21, 2021

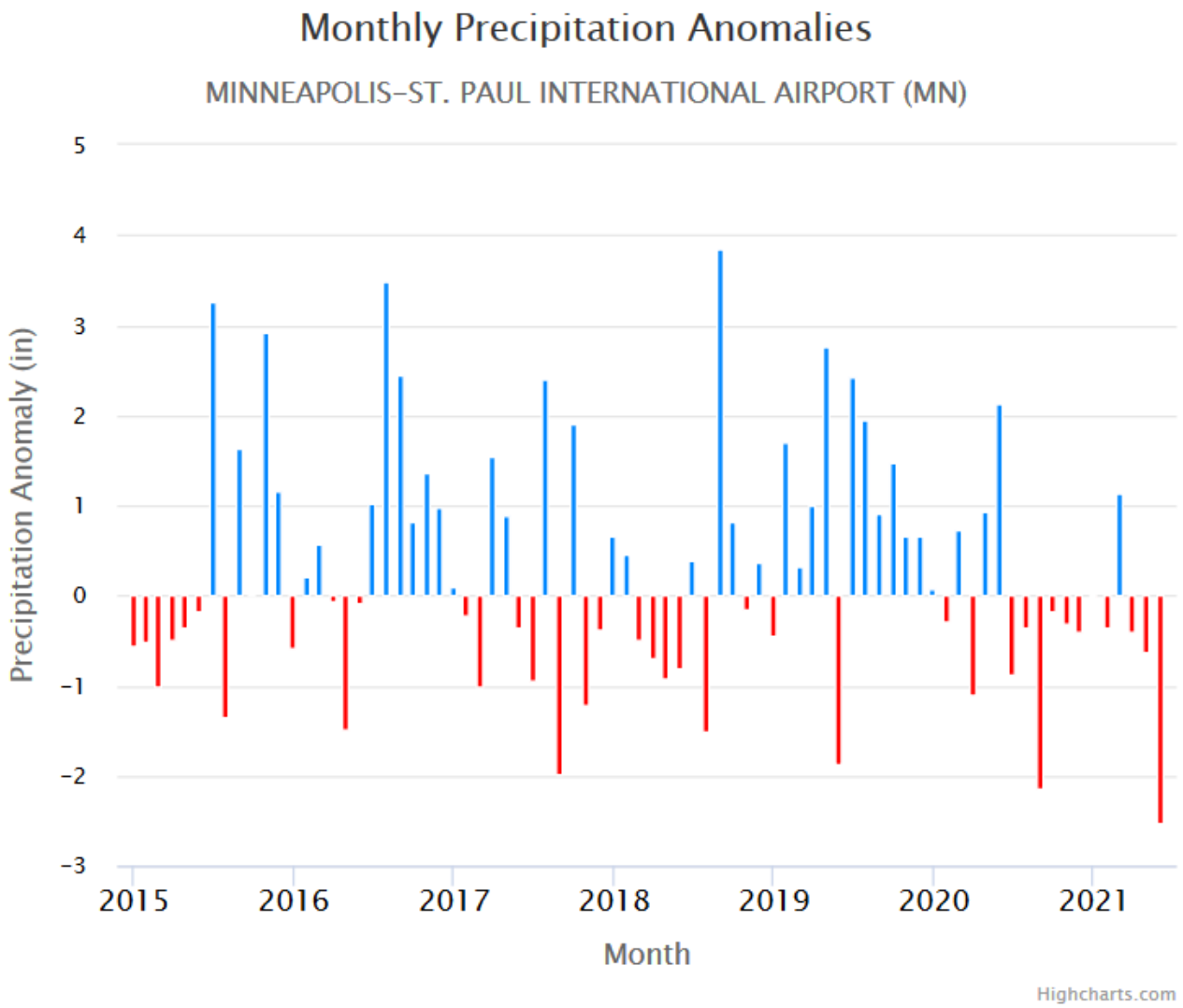
Luigi Romolo PhD

Minnesota State Climatologist

Presentation Overview

- Quick Review of how the drought has evolved
- Current Drought Indicators
- Current Drought Status
- Drought Impacts
- Looking forward
- Questions

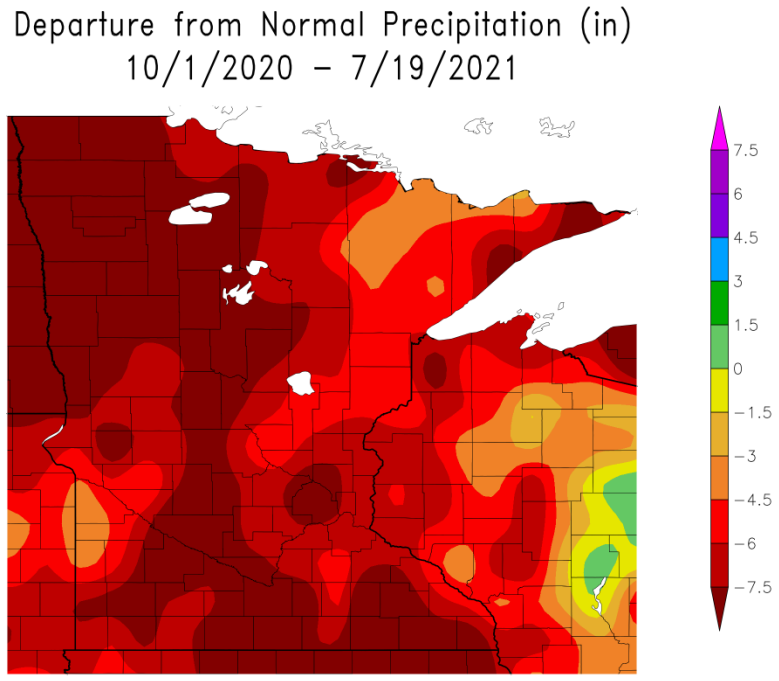
…it's been dry since last summer



Source: Minnesota DNR State Climate Office

Precipitation Anomalies

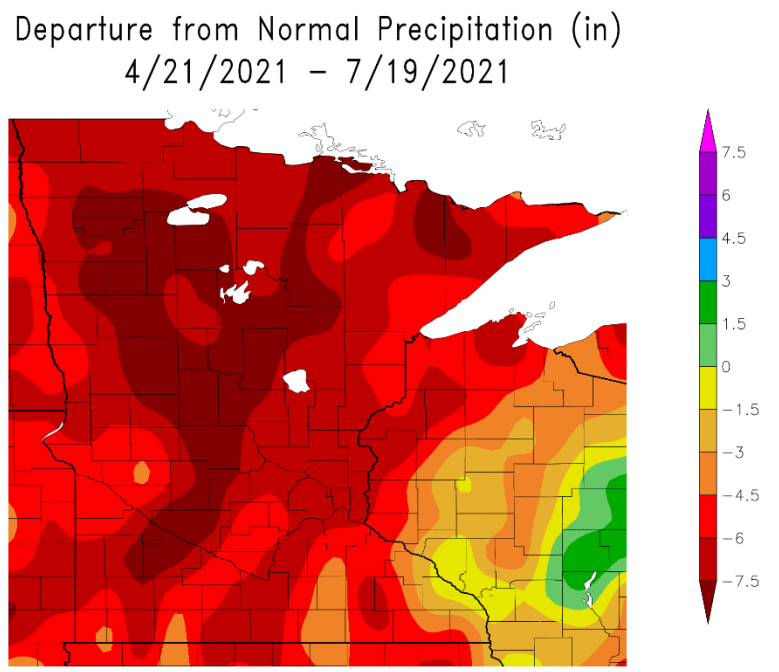
Water Year - To - Date



Generated 7/20/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers

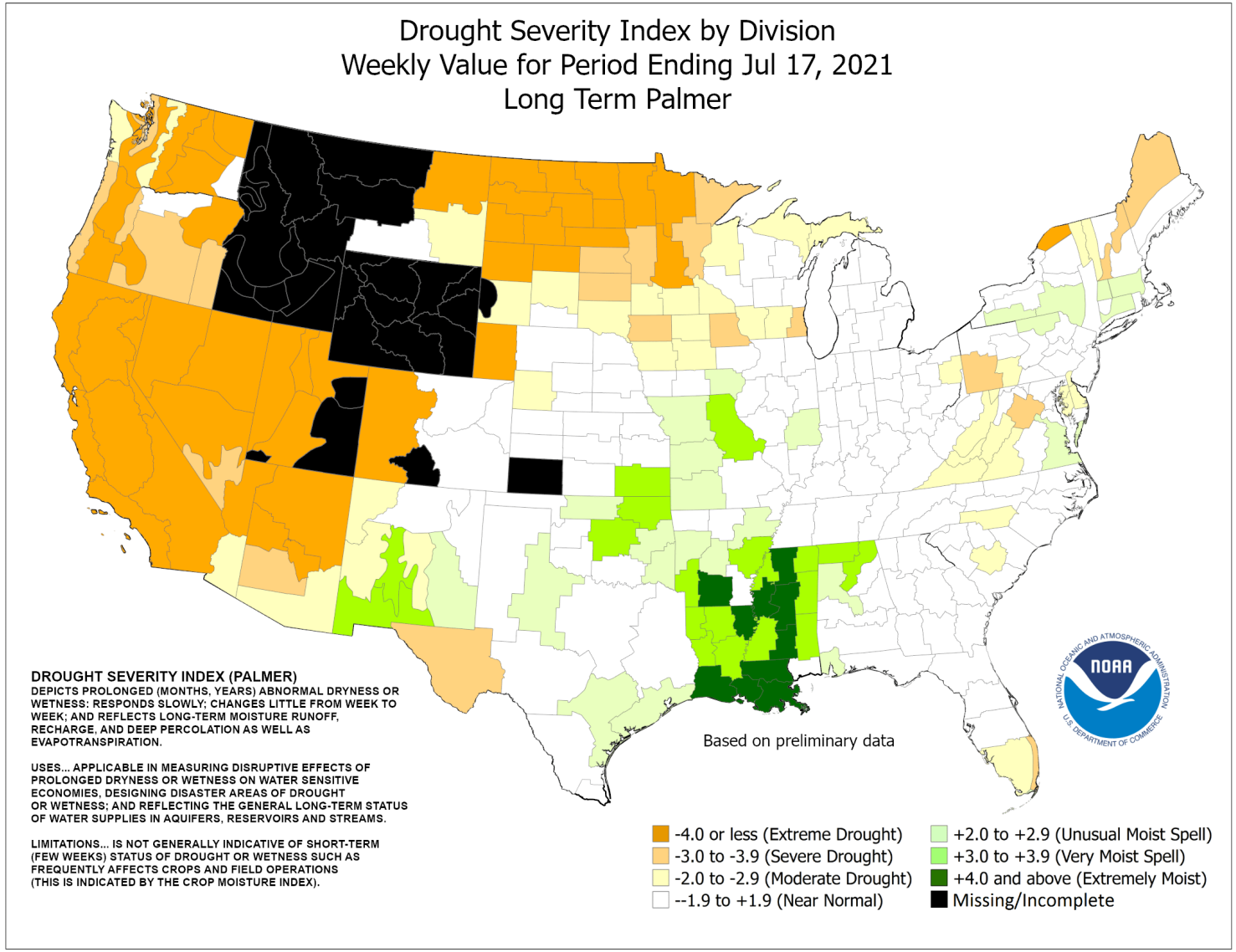
Past 90 Days



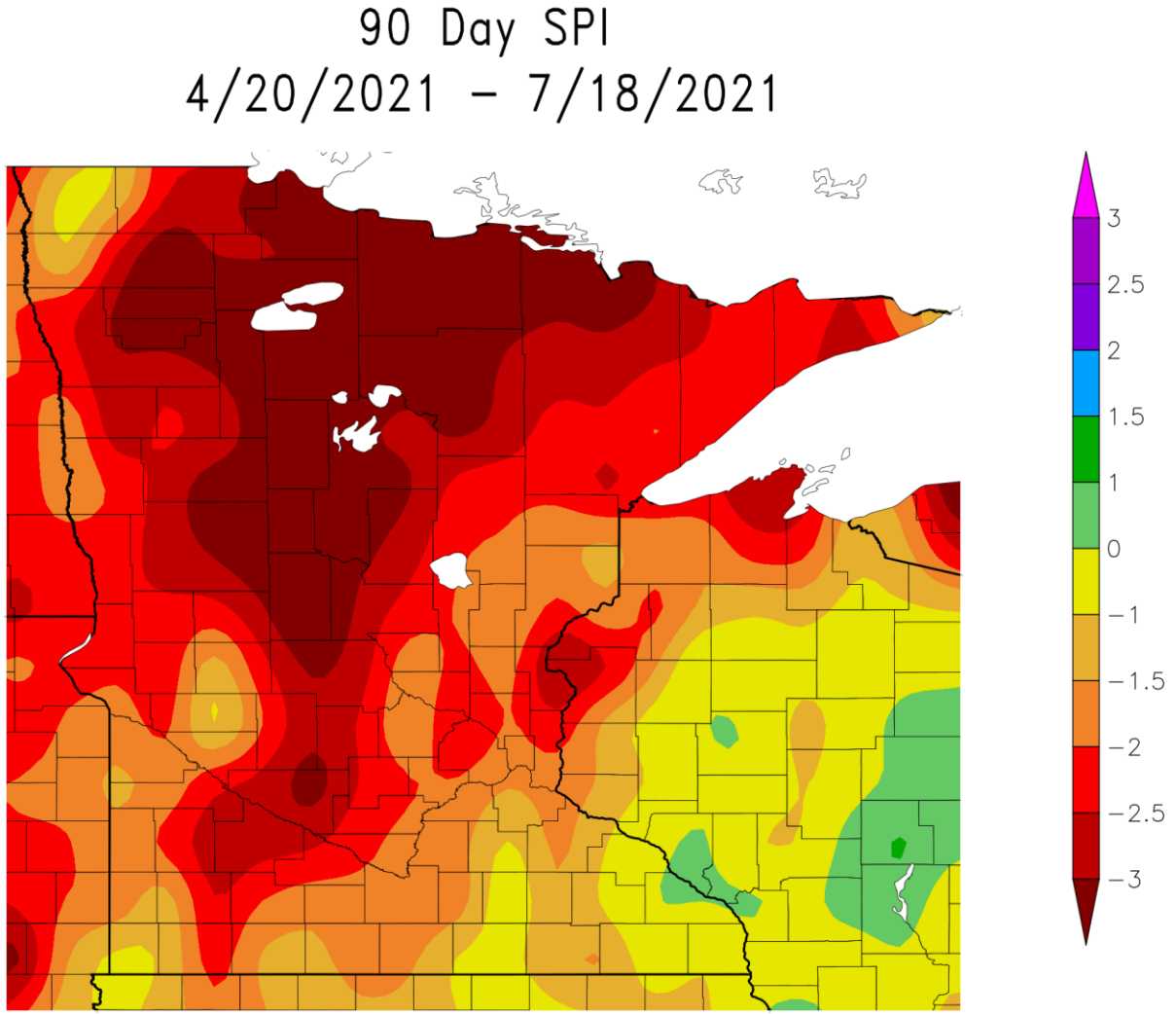
Generated 7/20/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers

Palmer Drought Index



Drought Indicator: Standardized Precipitation Index (SPI)



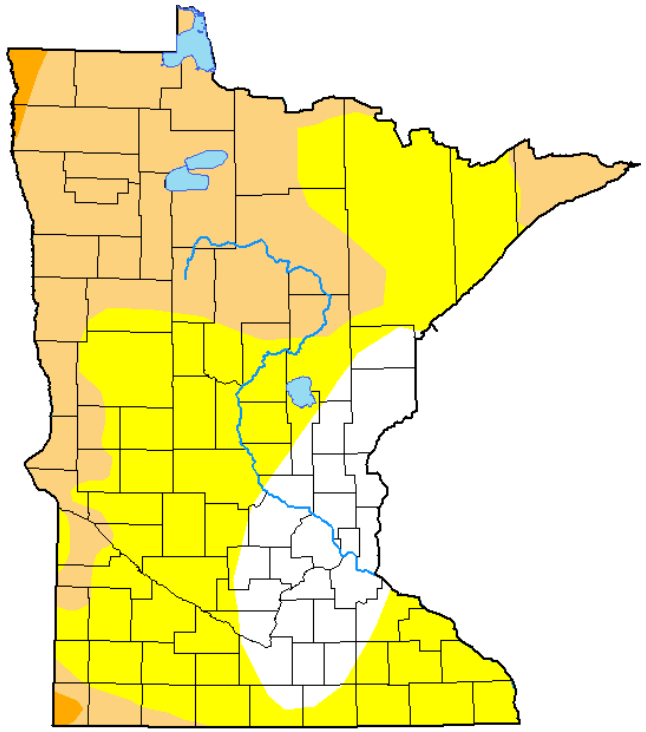
Generated 7/19/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers

Drought Map: March 30 & June 1

U.S. Drought Monitor

Minnesota



March 30, 2021

(Released Thursday, Apr. 1, 2021)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	14.87	85.13	38.80	0.89	0.00	0.00
Last Week *03-23-2021*	0.00	100.00	41.21	0.89	0.00	0.00
3 Months Ago *12-29-2020*	1.60	98.40	23.40	0.28	0.00	0.00
Start of Calendar Year *12-29-2020*	1.60	98.40	23.40	0.28	0.00	0.00
Start of Water Year *09-29-2020*	54.95	45.05	8.39	0.00	0.00	0.00
One Year Ago *03-31-2020*	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

- None
- 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. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

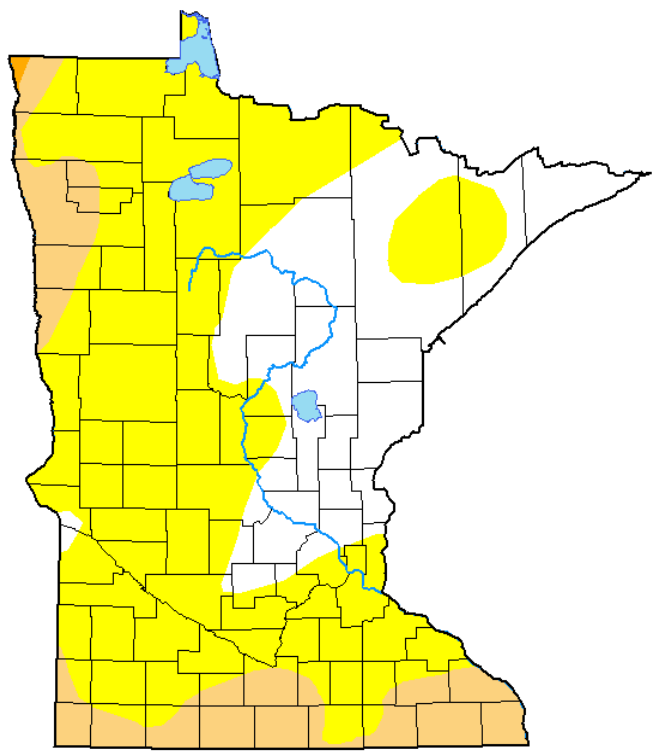
Brad Pugh

CPC/NOAA

droughtmonitor.unl.edu

U.S. Drought Monitor

Minnesota



June 1, 2021

(Released Thursday, Jun. 3, 2021)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	26.79	73.21	13.45	0.18	0.00	0.00
Last Week *05-25-2021*	26.79	73.21	13.42	0.18	0.00	0.00
3 Months Ago *03-02-2021*	0.00	100.00	39.53	0.61	0.00	0.00
Start of Calendar Year *12-29-2020*	1.60	98.40	23.40	0.28	0.00	0.00
Start of Water Year *09-29-2020*	54.95	45.05	8.39	0.00	0.00	0.00
One Year Ago *06-02-2020*	44.33	55.67	17.69	0.00	0.00	0.00

Intensity:

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

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Author:

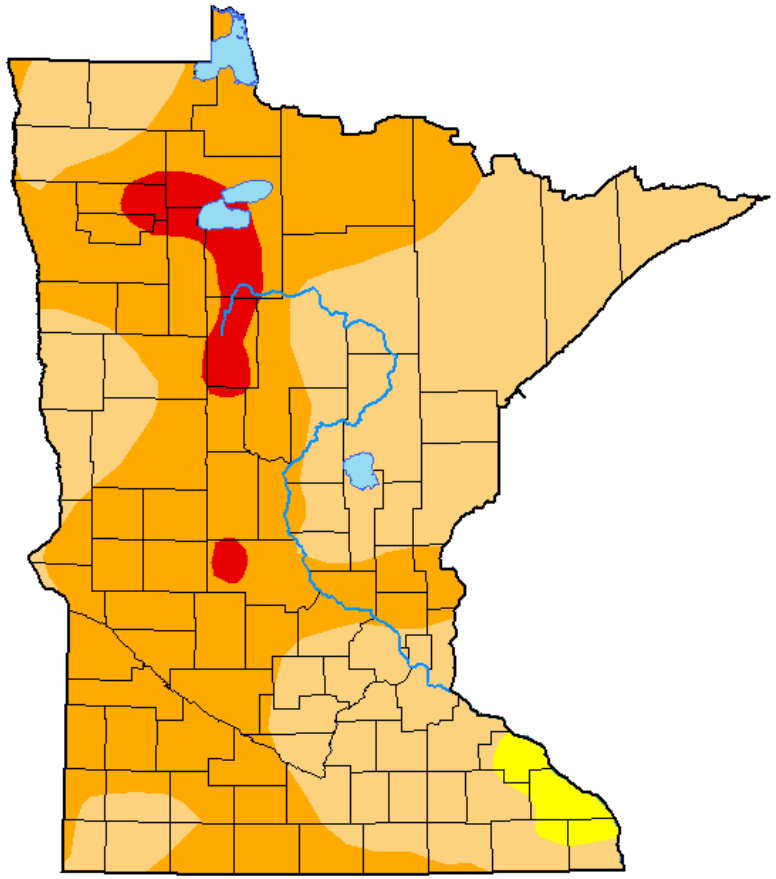
Brian Fuchs

National Drought Mitigation Center

droughtmonitor.unl.edu

Source: National Drought Mitigation Center

Current Drought Map



July 13, 2021
(Released Thursday, Jul. 15, 2021)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	98.21	52.42	3.95	0.00
Last Week *07-06-2021*	0.00	100.00	92.96	39.70	0.00	0.00
3 Months Ago *04-13-2021*	56.33	43.67	11.34	0.80	0.00	0.00
Start of Calendar Year *12-29-2020*	1.60	98.40	23.40	0.28	0.00	0.00
Start of Water Year *09-29-2020*	54.95	45.05	8.39	0.00	0.00	0.00
One Year Ago *07-14-2020*	61.84	38.16	20.08	4.44	0.00	0.00

Intensity:

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

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Author:
Adam Hartman
NOAA/NWS/NCEP/CPC

droughtmonitor.unl.edu

Source: National Drought Mitigation Center

Drought Impacts

Agriculture

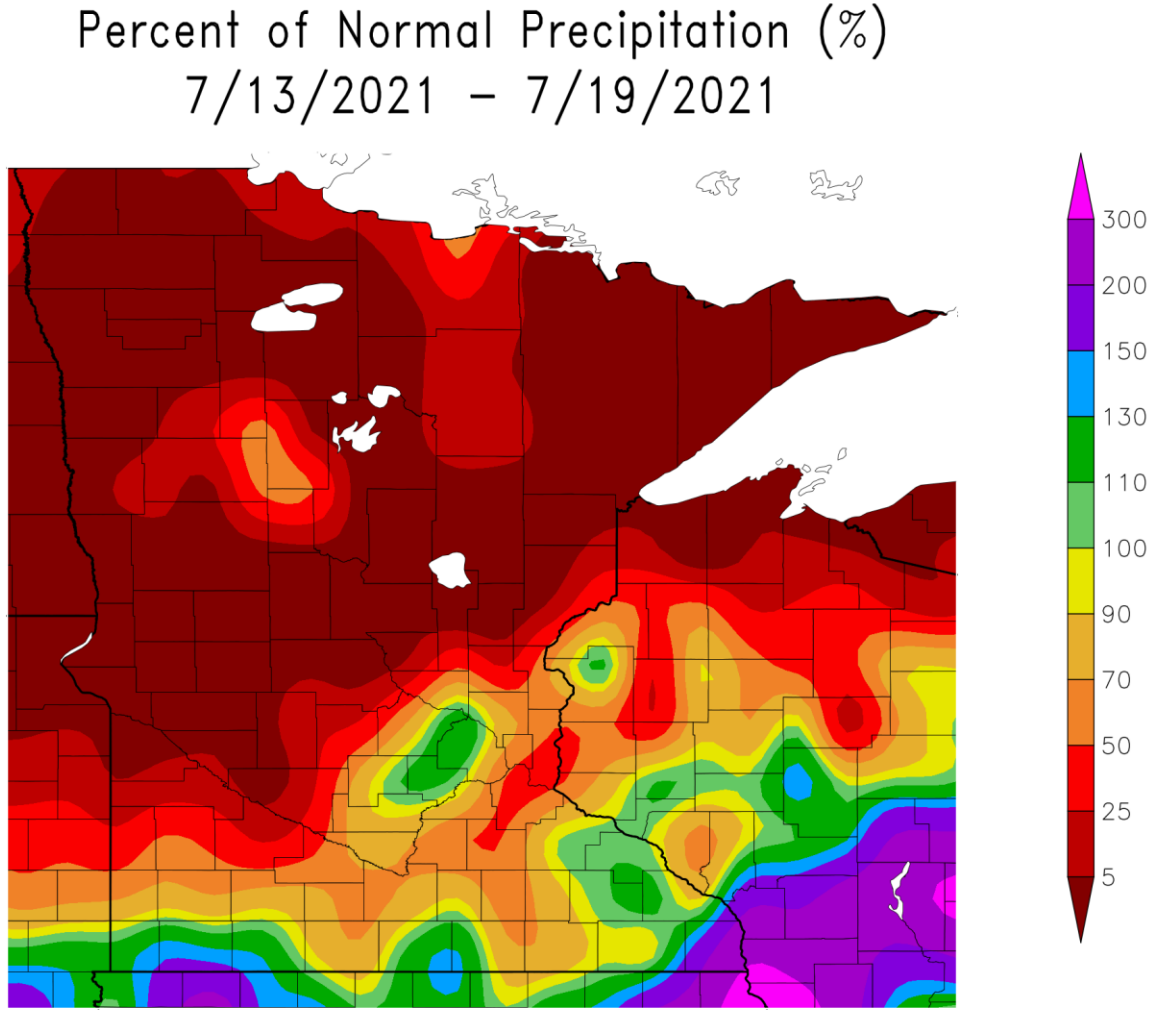
- Corn: 42% good to excellent (76% on June 1; Last Year: 83%)
- Soybeans 43% good to excellent (76% on June 1; Last Year: 80%)

Water Resources

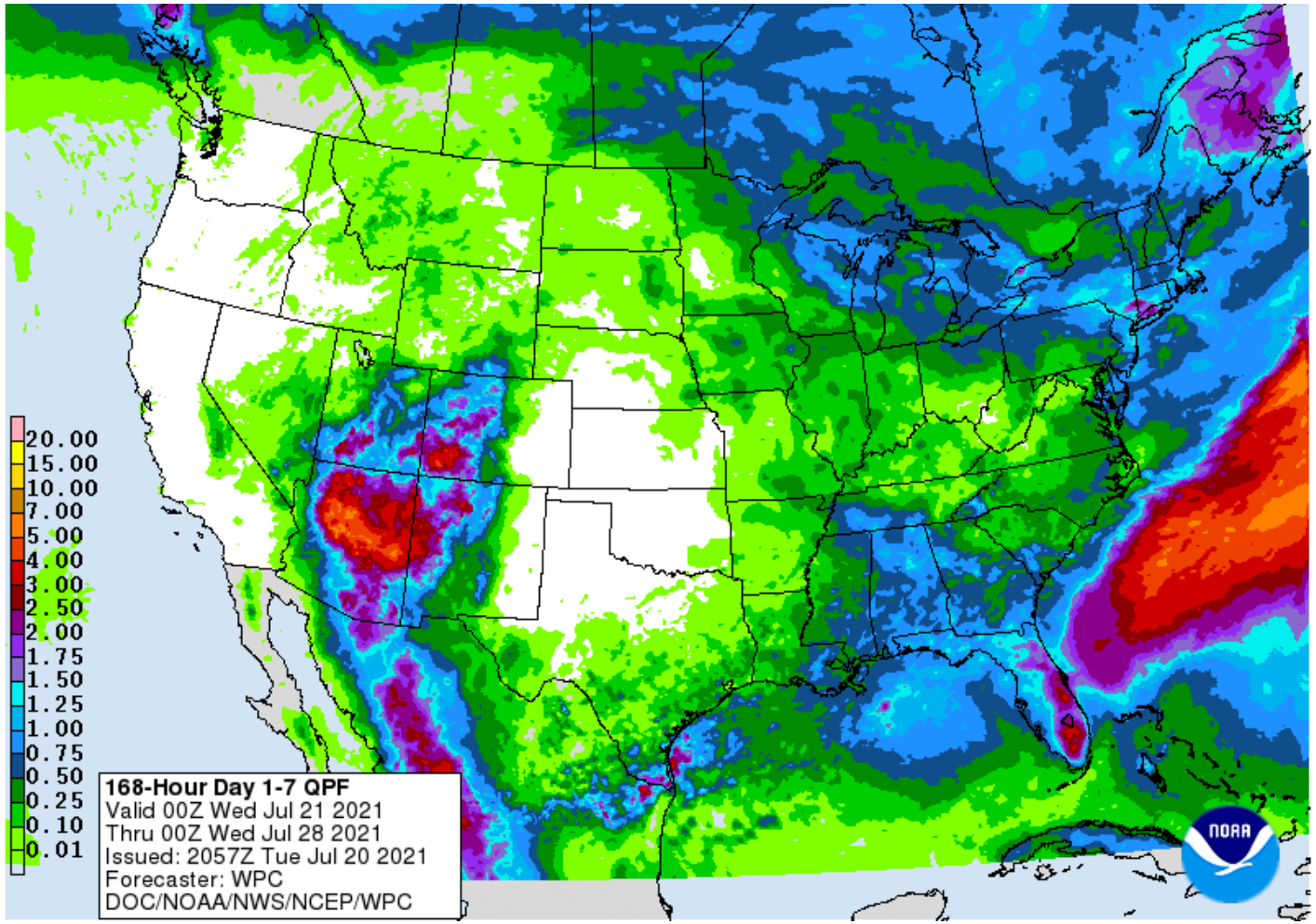
- Reduced Streamflow
- Reduced Lake Levels

Tourism

Precipitation for the last 7 days



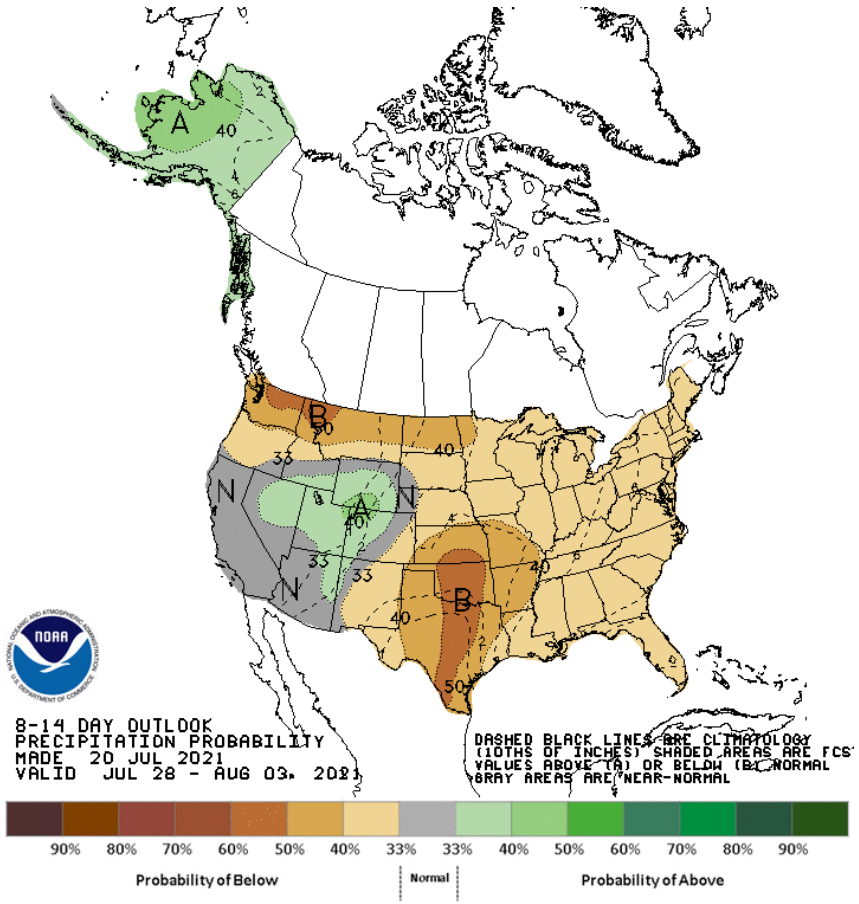
Precipitation for the next 7 days



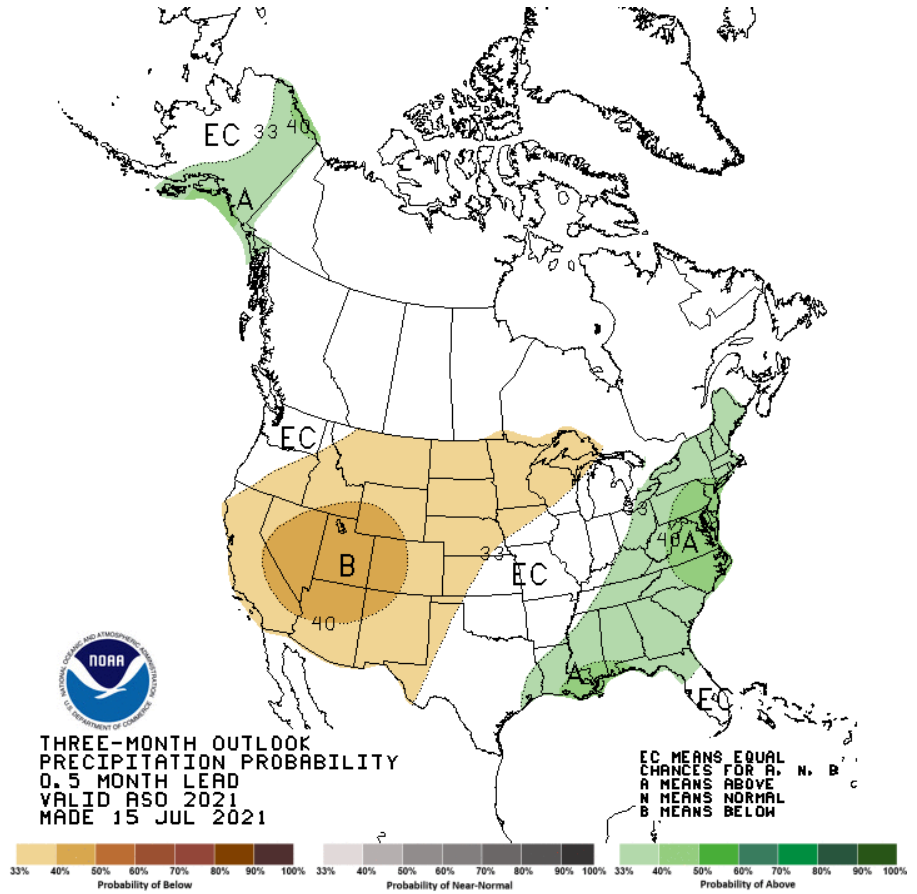
Source: NOAA's Weather Prediction Center

Climate Prediction Center Precipitation Outlooks

8-14 Days – Aug 3, 2021

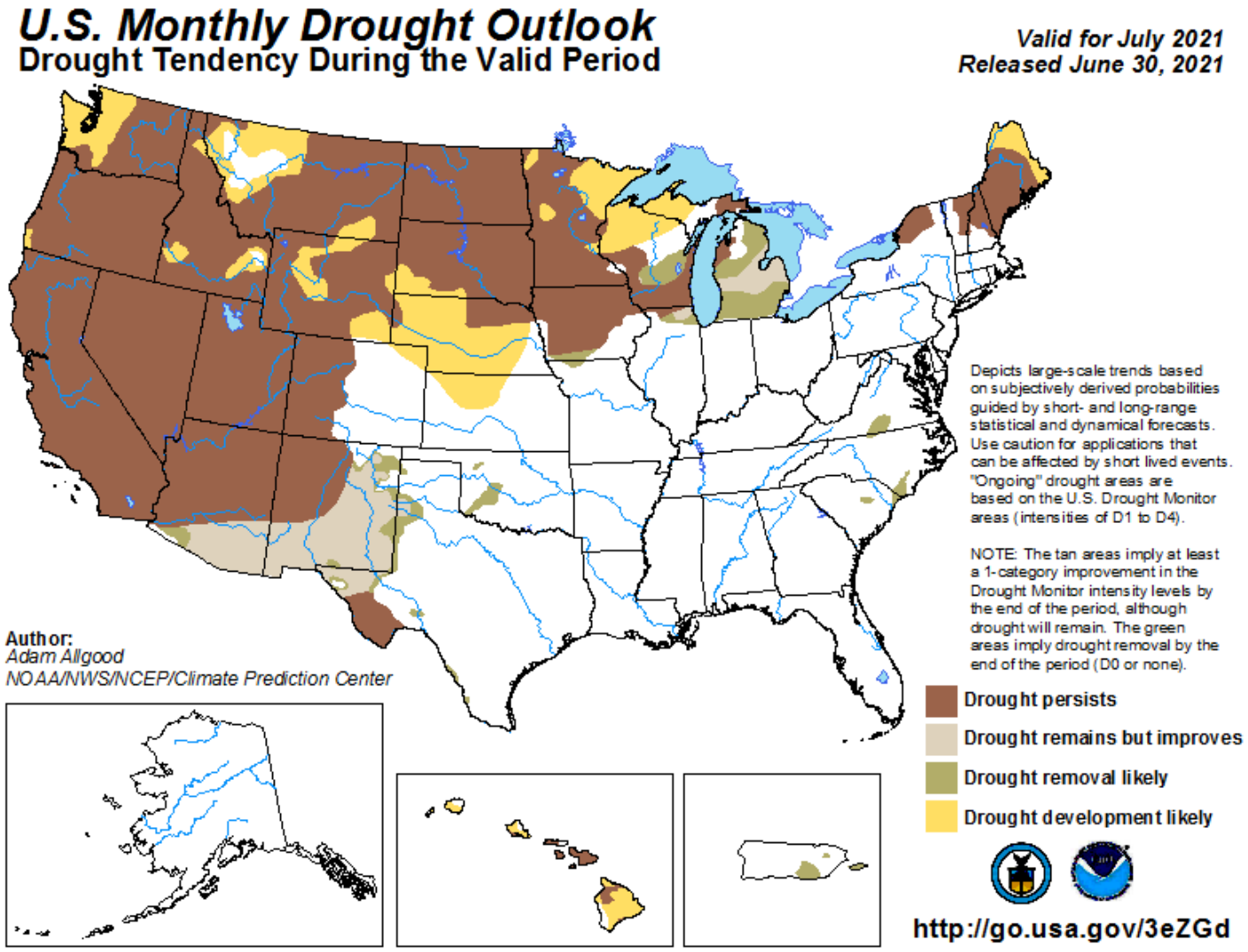


Aug – Sep - Oct



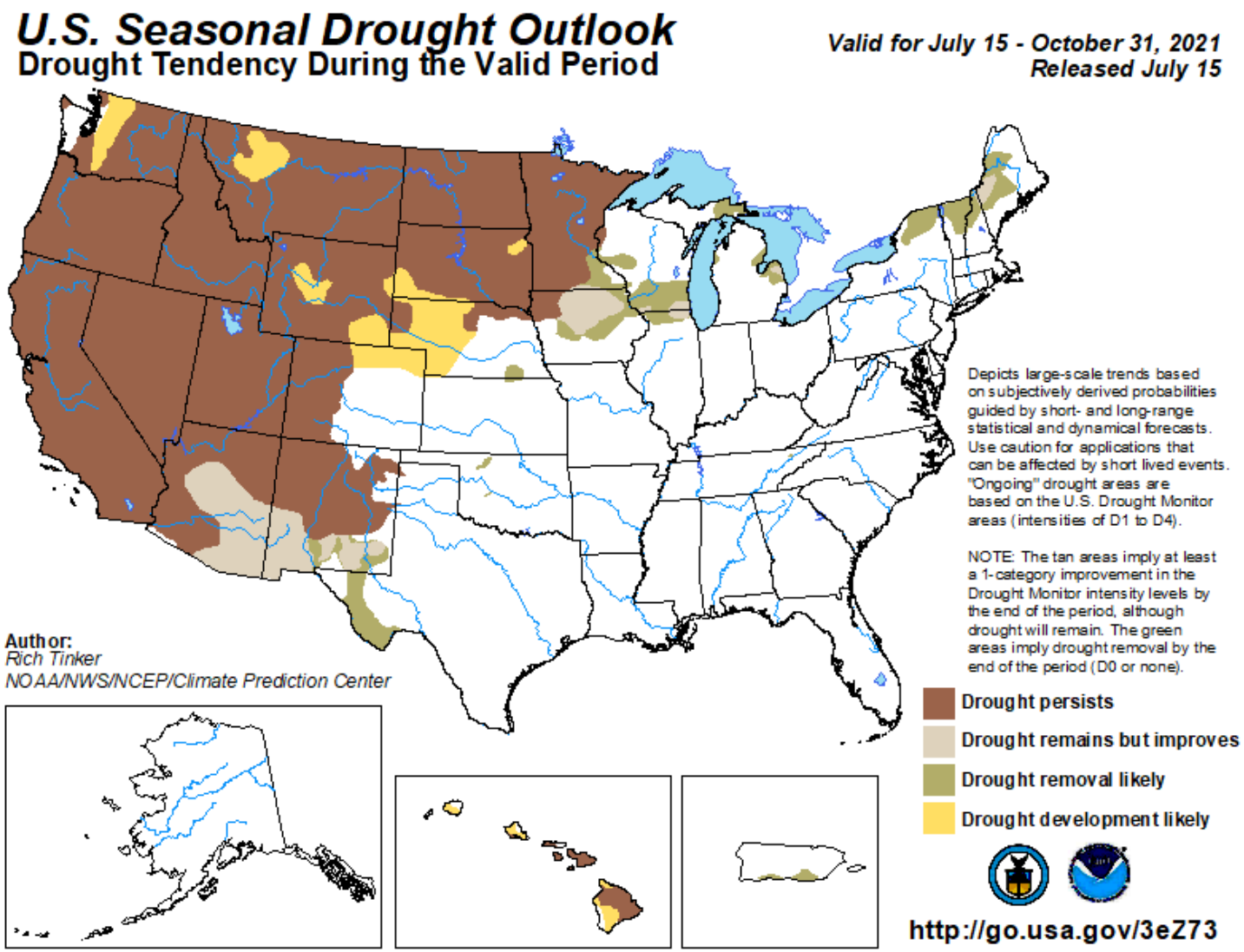
Source: NOAA's Climate Prediction Center

Drought Outlook



Source: NOAA's Climate Prediction Center

Drought Outlook



Source: NOAA's Climate Prediction Center

Summary

- Drought has taken hold in Minnesota
- Could be the first full growing season drought in a long time
- All current indications are that drought is expected to persist in the foreseeable future
- Though conditions may improve down the road, we must remain diligent in our efforts to mitigate impacts.

Photo Credit: Pete Boulay

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Questions ?

Thank You!

Introductions

- Introduce yourself (name and position)
- Who do you represent?
- What actions has your agency / organization / government taken to respond to the drought?

Agenda

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• Purpose of meeting	Katie Smith
• Drought situation review and update	Luigi Romolo
• Agency actions / introductions	Task Force
• Drought issues discussion	All
• Next steps / adjourn	Randall Doneen

Next Steps

- Clarify action items resulting from todays meeting
- How should we manage the meeting notes?
- How do we manage both media and public information?
- How frequently does the Task Force meet?

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State Drought Task Force Meeting

July 21, 2021