



Maine 2021 Drought Update

11:00 AM EDT

Wednesday, June 30, 2021

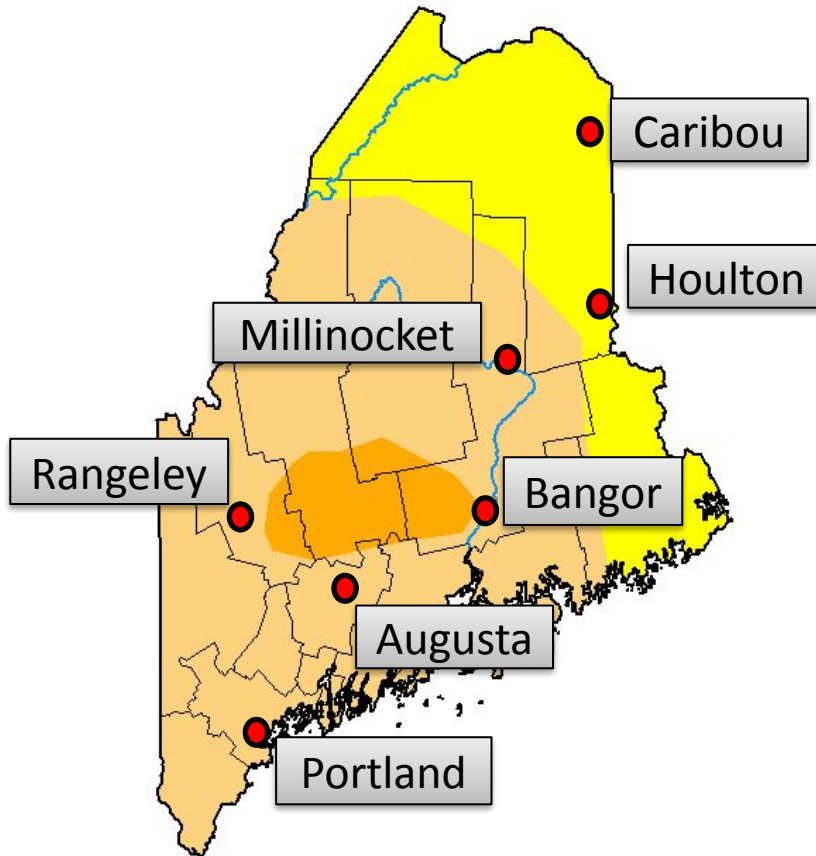
Prepared by: WFO Gray/Caribou

Latest Drought Conditions



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WEATHER FORECAST OFFICE

U.S. Drought Monitor Maine



June 22, 2021

(Released Thursday, Jun. 24, 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	70.44	6.97	0.00	0.00
Last Week 06-15-2021	0.00	100.00	40.38	0.00	0.00	0.00
3 Months Ago 03-23-2021	86.36	13.64	0.00	0.00	0.00	0.00
Start of Calendar Year 12-29-2020	91.54	8.46	0.00	0.00	0.00	0.00
Start of Water Year 09-29-2020	0.00	100.00	100.00	83.86	7.28	0.00
One Year Ago 06-23-2020	0.00	100.00	47.36	0.00	0.00	0.00

Intensity:

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

Curtis Riganti
National Drought Mitigation Center



droughtmonitor.unl.edu

2021 Year To Date Rainfall Deficits (in)

Caribou	-1.51
Houlton	-4.56
Millinocket	-6.03
Bangor	-7.79
Augusta	-7.08
Portland	-8.67
Rangeley	-7.85

Rainfall Deficits

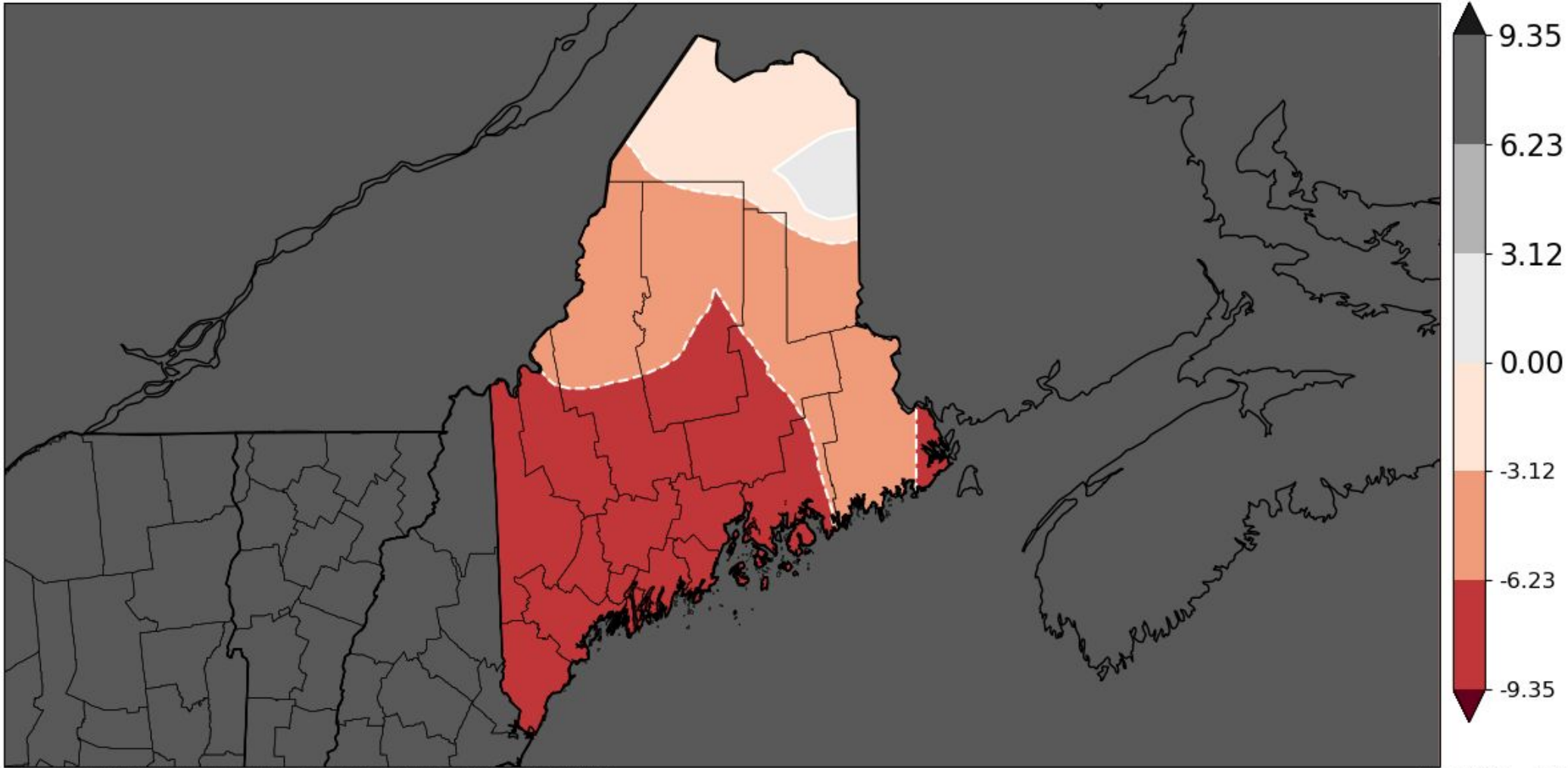
Year To Date



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1 Jan 2021 thru 29 Jun 2021 Precipitation Departure [inch]
2021 is compared with 1981-2020 Climatology to compute departures



Iowa Environmental Mesonet :: generated 30 June 2021 08:37 AM
Generated at 30 Jun 2021 8:37 AM CDT in 3.94s

data units :: inch
IEM Autoplot App #97

www.weather.gov/gray

Rainfall Deficits

Since May 1

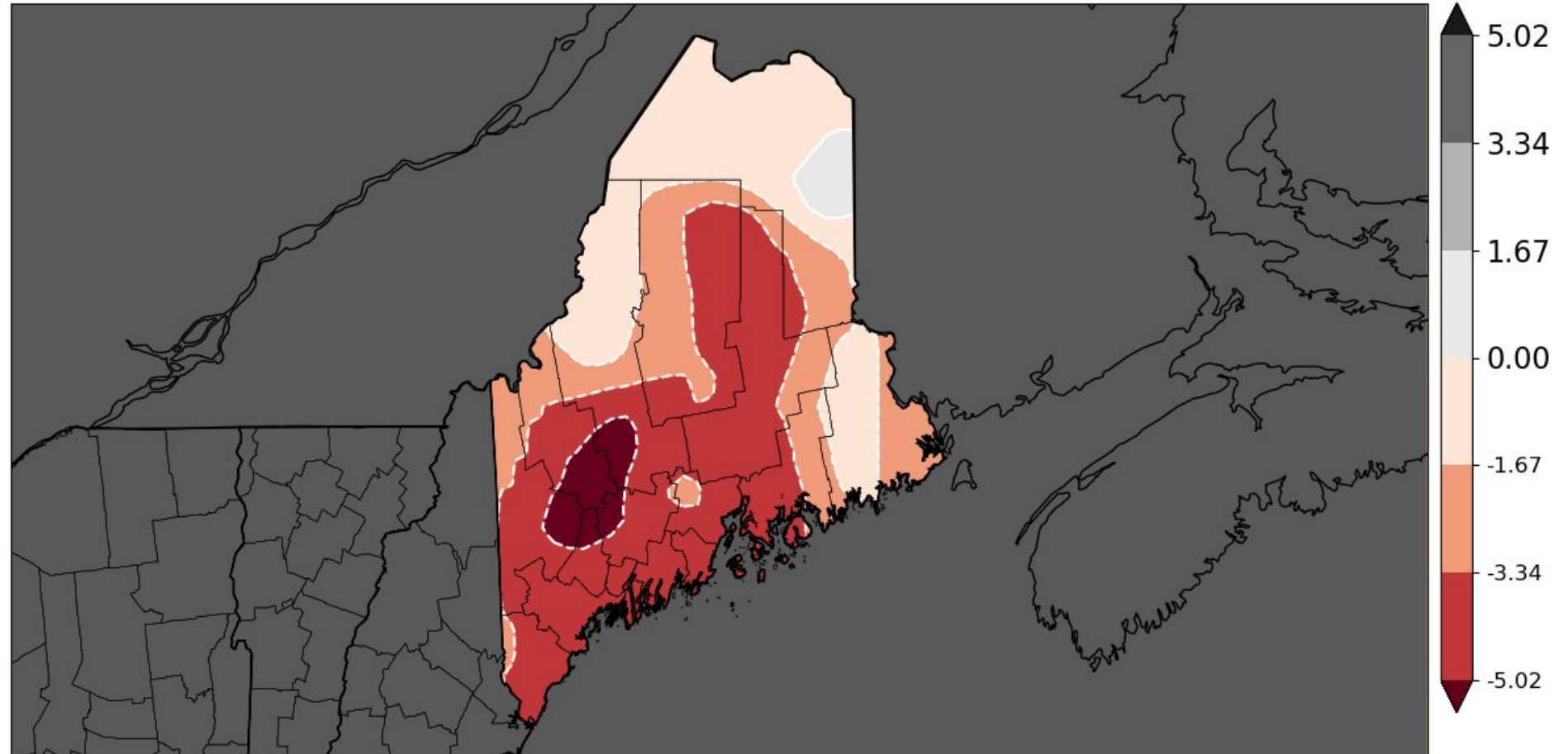


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- Most of the yearly rainfall departures have occurred over the last 5-6 weeks.
- This period is normally one of the wettest times of the year.
- Sunny weather and dry Canadian air also increased evaporation



1 May 2021 thru 29 Jun 2021 Precipitation Departure [inch]
2021 is compared with 1981-2020 Climatology to compute departures



Iowa Environmental Mesonet :: generated 30 June 2021 08:46 AM
Generated at 30 Jun 2021 8:46 AM CDT in 4.39s

data units :: inch
IEM Autoplot App #97

Short Term Drought

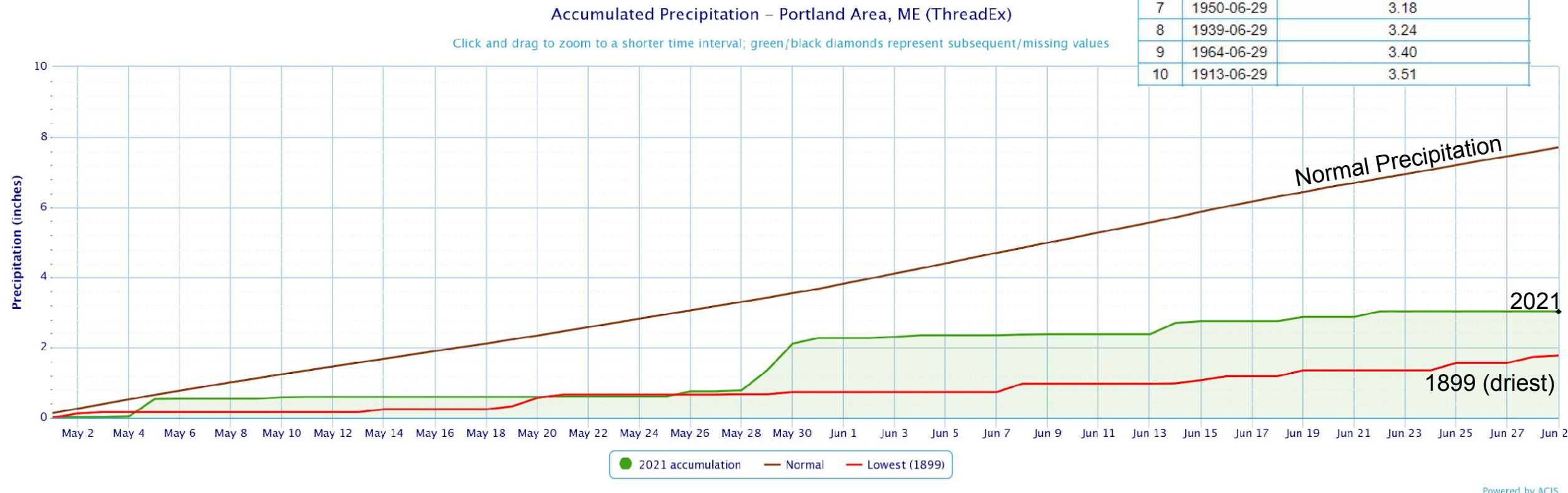
Portland



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- Dry conditions began in May and continued in June

Rank	Ending Date	Total Precipitation May 1 to Jun 29
1	1899-06-29	1.77
2	1941-06-29	2.16
3	1932-06-29	2.35
4	1965-06-29	2.65
5	2021-06-29	3.03
6	1997-06-29	3.17
7	1950-06-29	3.18
8	1939-06-29	3.24
9	1964-06-29	3.40
10	1913-06-29	3.51



Powered by ACIS

Short Term Drought

Bangor



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Minimum 2-Month Total Precipitation for Bangor Area, ME (ThreadEx)

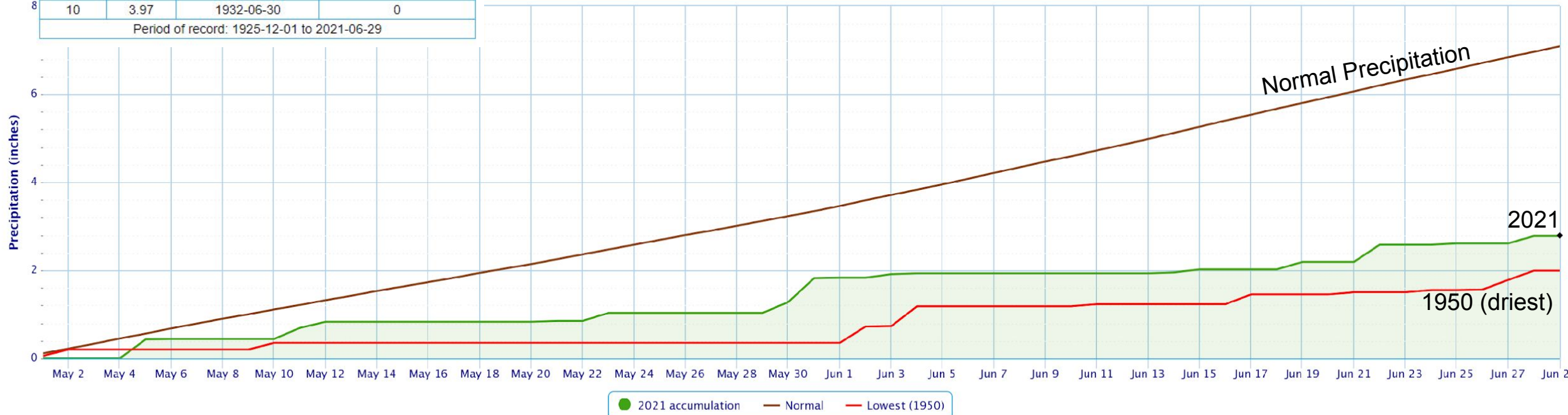
Click column heading to sort ascending, click again to sort descending.

Rank	Value	Ending Date	Missing Days
1	1.99	1950-06-30	0
2	2.78	2021-06-30	1
3	3.00	1965-06-30	0
4	3.05	2001-06-30	0
5	3.16	1992-06-30	0
6	3.39	1962-06-30	0
7	3.62	1964-06-30	0
8	3.75	1963-06-30	0
9	3.96	1980-06-30	0
10	3.97	1932-06-30	0

Period of record: 1925-12-01 to 2021-06-29

Accumulated Precipitation – Bangor Area, ME (ThreadEx)

and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



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Short Term Drought

Houlton



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Minimum 2-Month Total Precipitation for HOULTON AIRPORT, ME

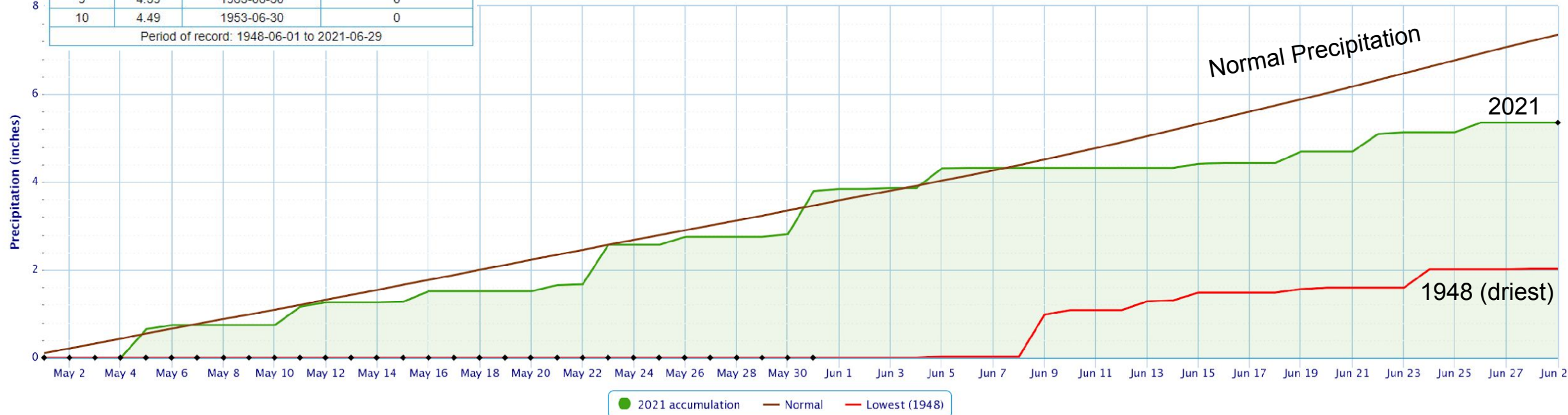
Click column heading to sort ascending, click again to sort descending.

Rank	Value	Ending Date	Missing Days
1	3.68	1957-06-30	0
2	3.77	1999-06-30	0
3	3.98	1982-06-30	0
4	4.05	1978-06-30	0
5	4.11	2020-06-30	0
6	4.19	1971-06-30	0
7	4.28	1968-06-30	0
8	4.35	1988-06-30	0
9	4.39	1963-06-30	0
10	4.49	1953-06-30	0

Period of record: 1948-06-01 to 2021-06-29

Accumulated Precipitation – HOULTON AIRPORT, ME

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



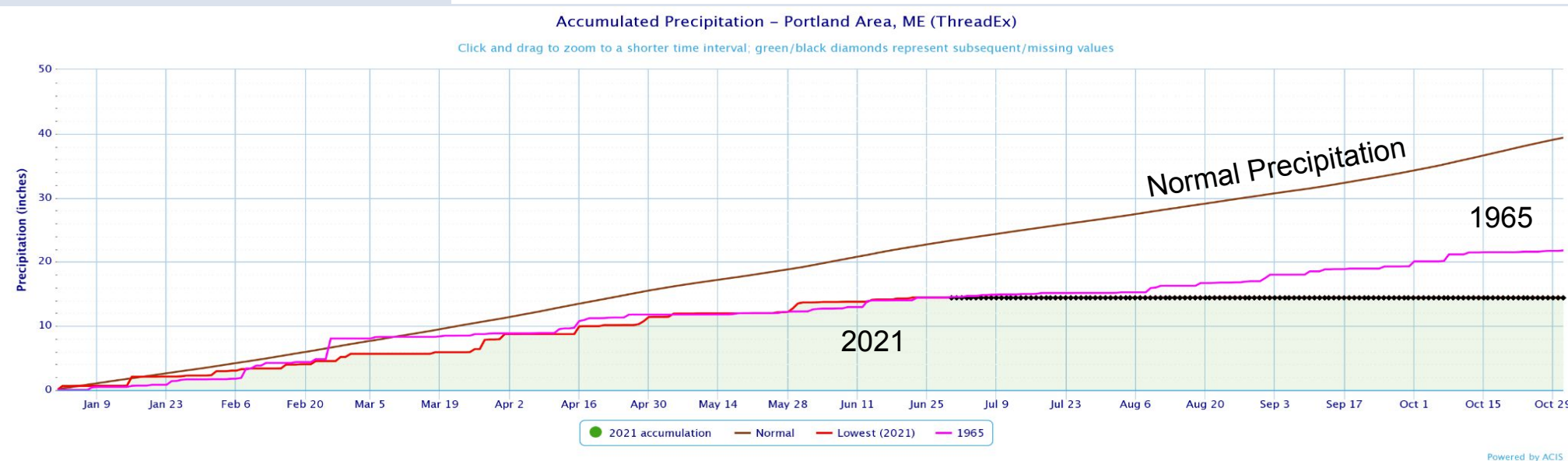
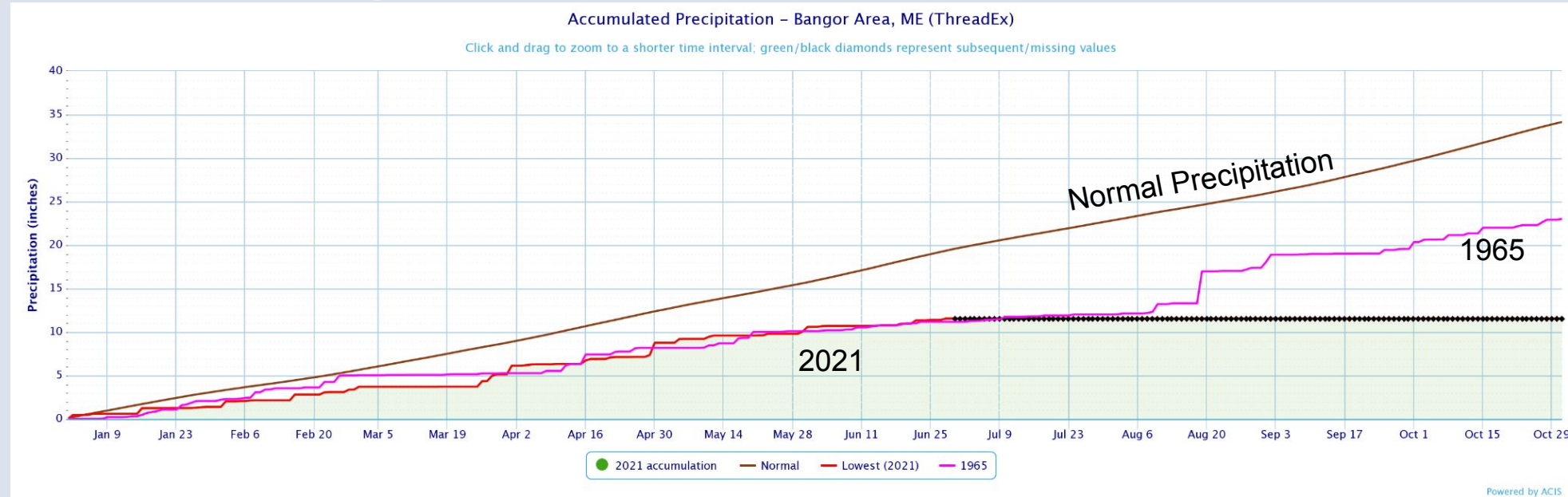
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Short Term Drought Historical Analog



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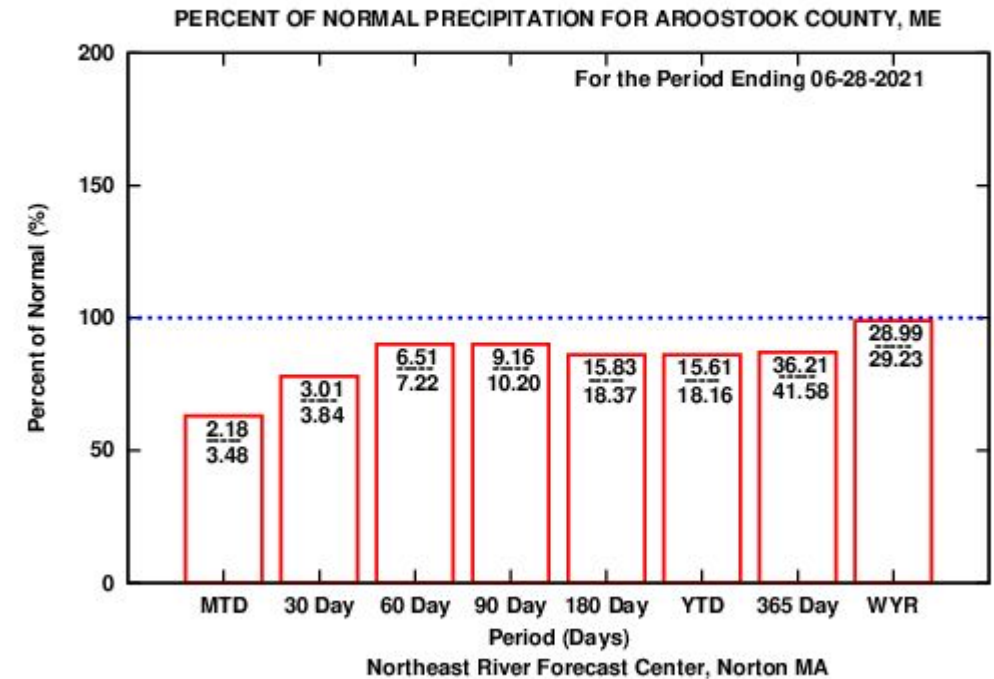
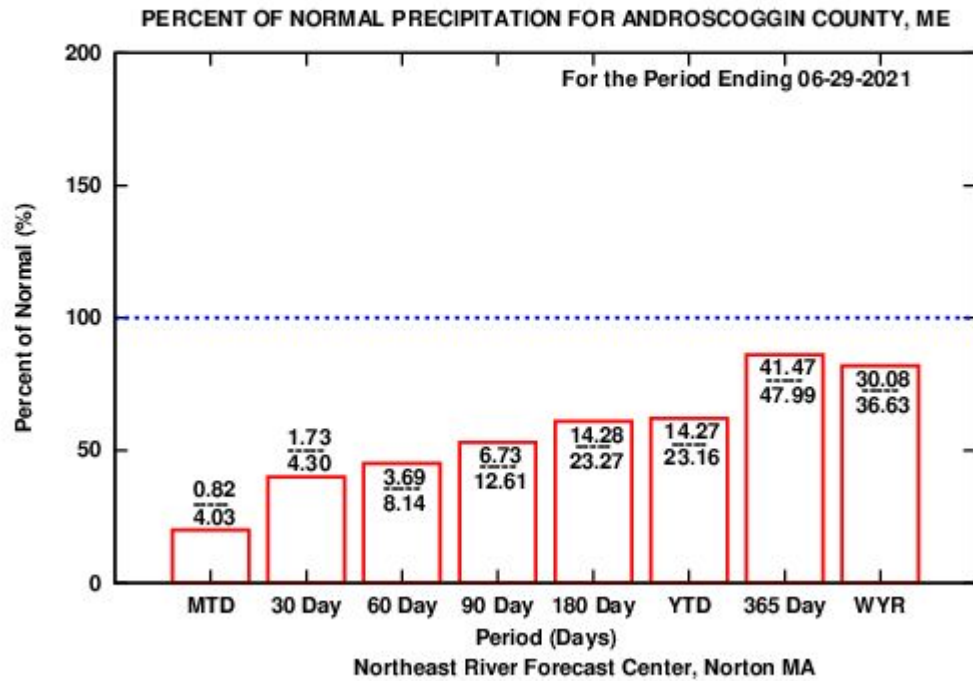
- Similar Year to Date precipitation as observed in 1965 for southern and central Maine



Rainfall Percent of Normal



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For more county specific charts visit
www.weather.gov/nerfc/Barcharts

CoCoRaHS

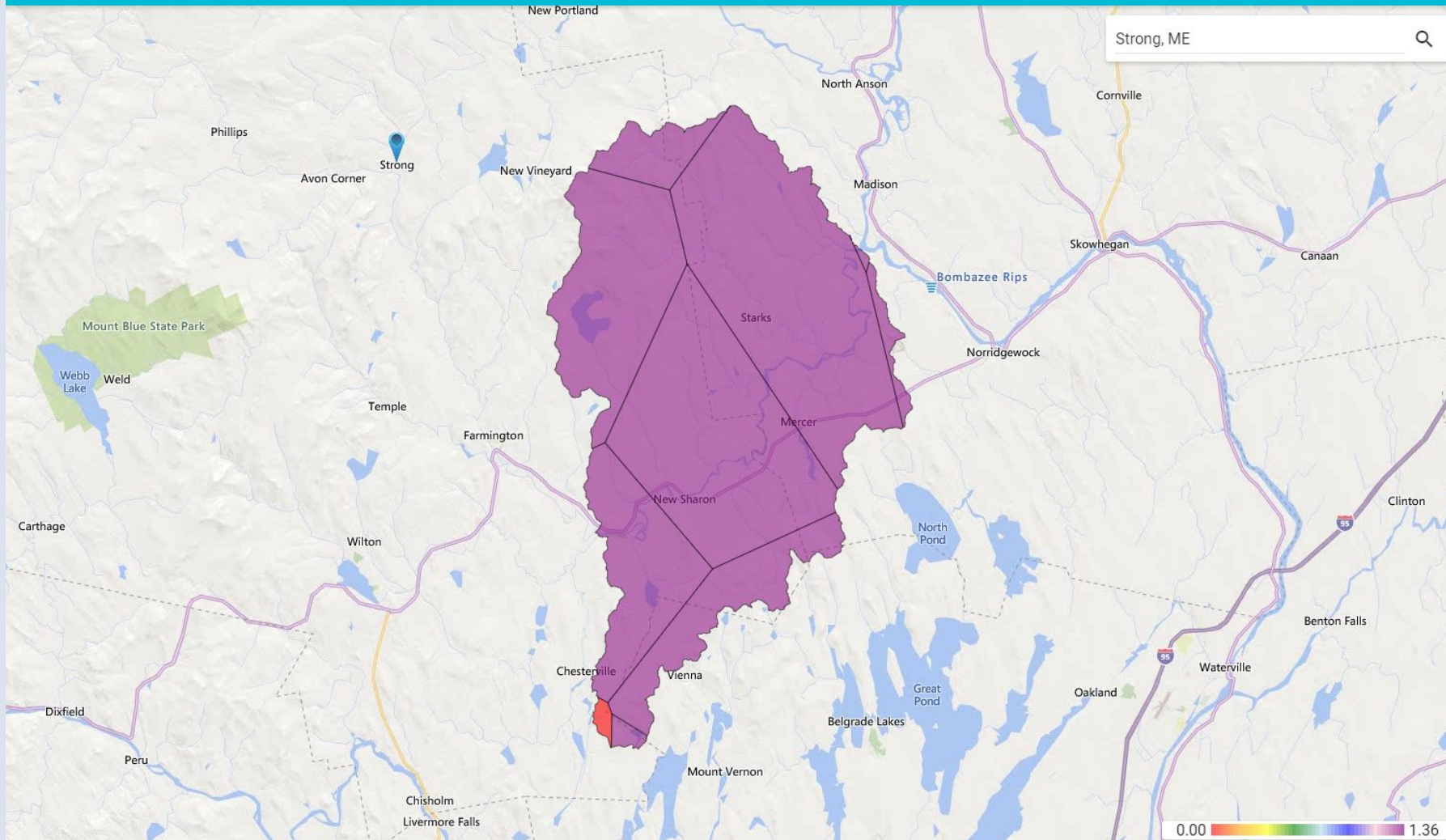
Watershed Precipitation Maps



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CoCoRaHS Watershed Mapping

ABOUT



← Watershed Details



Lower Sandy River

0103000312

The Lower Sandy River watershed spans parts of Maine. It has a total area of 107,169 acres or 167 square miles.

Accumulated Precipitation for May 2021: **1.35 in.**

There are 10 CoCoRaHS stations in this watershed.

Search for CoCoRaHS Station

PRECIPITATION REPORTS

<https://cocorahs.erams.com/>

- Drought Reports from CoCoRaHS observers

Topsham 3.7 NE

Station Number	ME-SG-16 (52 CM Reports in prior 12 months)
Report	More frequent and sustained showers have lessened the need to water the garden and lawn grass remains mostly green. Poor grown in the fields bodes for poor hay crops. Trees show sign of need for water with leaves curling. Heavier rain is needed.
Condition	Moderately Dry
Date	Sun Jun 27 2021
Summary Data	CoCoRaHS summary data by week for this station.

Close

Condition Monitoring

Reports of Interest

Search Reports

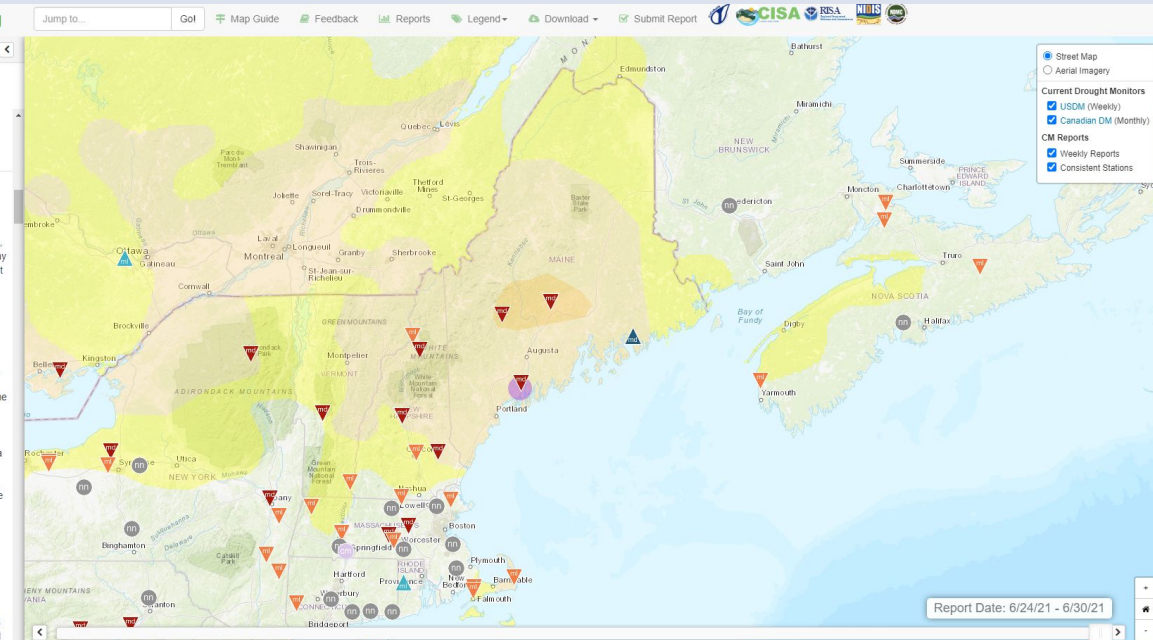
Japanese Beetles in the gardens.

MA-BE-21 -- General Awareness, Plants And Wildlife

▼ Concord 3.8 SSE
Sun Jun 27 2021

Ground dry but not packed hard. Got a trace of rain for each of the past two days, but that dried up in no time. Trees are okay with the lack of water. Grass difficult to get growing where there's sun. Otherwise, nice and green and lush in the shade of our oak. Will probably be using the air conditioner today due to the forecast high temperatures and humidity. Otherwise, we've just been using electric fans. Fire danger continues to be "4" for Concord. A Monarch butterfly came to our patch of milkweed this morning. Just made it in time for the blooming of the milkweed flowers. Continuing to feed the birds, chipmunks, squirrels, ground hog, and occasional skunk. (That skunk had what looked like a very heavy rug attached to its back. Gorgeous.) People rarely wearing masks. We've been out to eat at restaurants twice since the restrictions lifted. We still use masks at stores and doctors' offices. And went camping at Greenfield State Park. Lake was full. Hardly anyone there. Merrimack River measured at Loudon Road bridge is 3.74 feet high.

NH-MR-9 -- General Awareness, Agriculture, Energy, Fire, Plants And Wildlife, Relief Response, Society And



<https://www.cocorahs.org/Maps/conditionmonitoring/#>

Record June Heat....Again



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- *Not official until end of the month

Maximum 1-Month Mean Avg Temperature for Portland Area, ME (ThreadEx)

Click column heading to sort ascending, click again to sort descending.

Rank	Value	Ending Date	Missing Days
1	68.4	2021-06-30	1
2	67.1	2001-06-30	0
3	67.0	1884-06-30	0
4	66.8	1883-06-30	0
5	66.5	1876-06-30	0
6	66.5	1930-06-30	0
7	66.3	1999-06-30	0
8	66.2	2020-06-30	0
9	66.0	1877-06-30	0
10	66.0	1994-06-30	0

Period of record: 1874-04-01 to 2021-06-29

Maximum 1-Month Mean Avg Temperature for Caribou Area, ME (ThreadEx)

Click column heading to sort ascending, click again to sort descending.

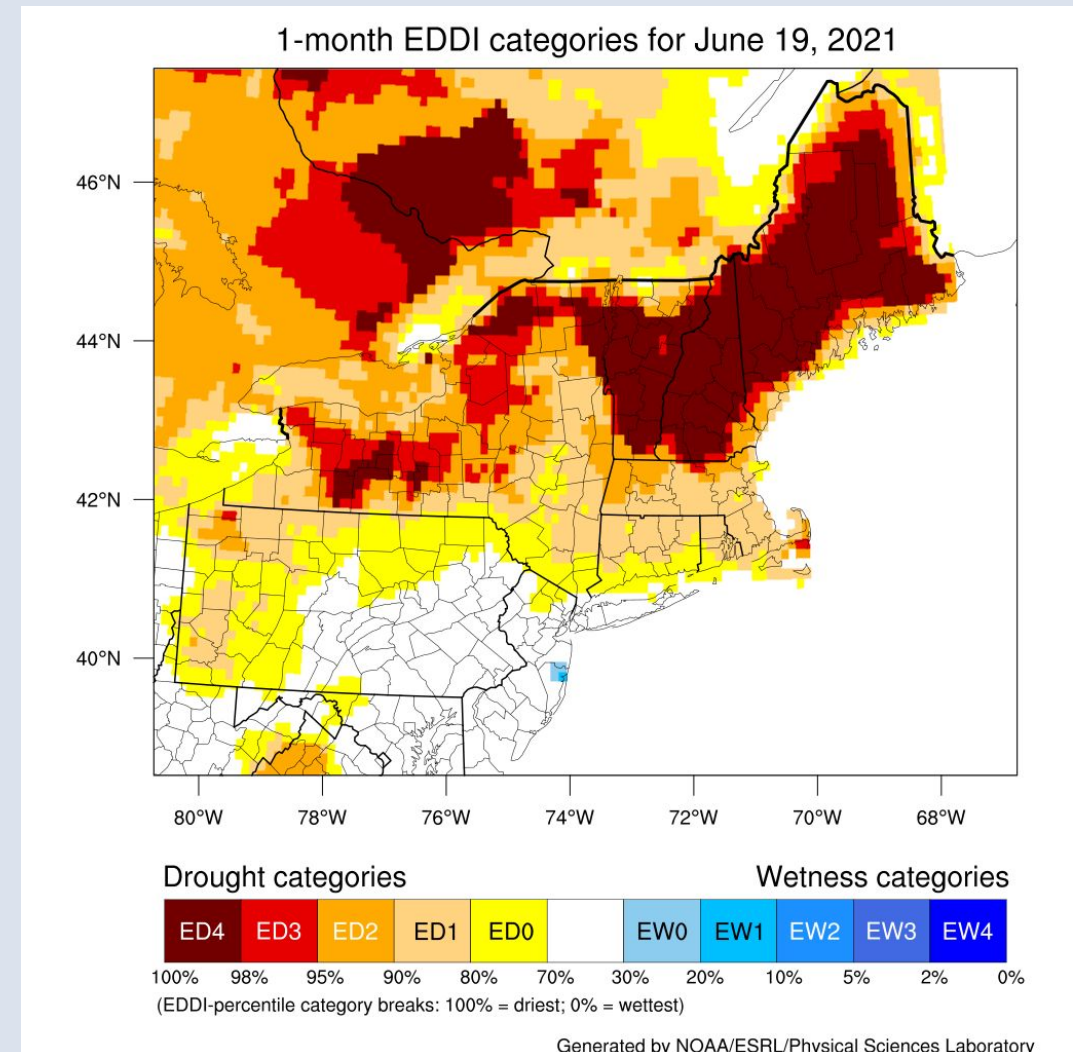
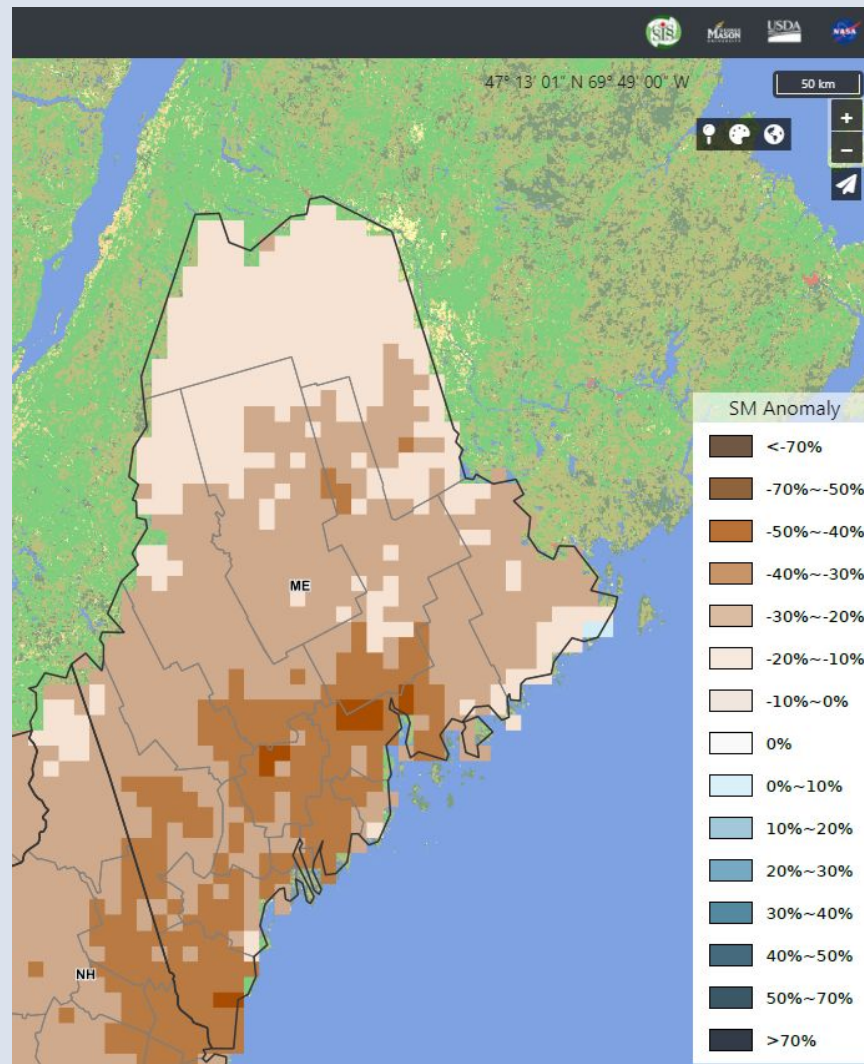
Rank	Value	Ending Date	Missing Days
1	64.8	2021-06-30	1
2	64.4	2020-06-30	0
3	64.0	1976-06-30	0
4	64.0	2006-06-30	0
5	63.8	1999-06-30	0
6	63.6	1994-06-30	0
7	63.2	2005-06-30	0
8	63.0	1973-06-30	0
9	63.0	2014-06-30	0
-	63.0	1995-06-30	0

Period of record: 1939-01-16 to 2021-06-29

Soil Moisture Deficits



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Crop-CASMA (Crop Condition and Soil Moisture Analytics) credit NASA and USDA-NASS

Evaporative Demand Drought Index Maps





7 – Day Forecast



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- Weather pattern will transition to cooler and wetter

Extended Forecast for Skowhegan ME

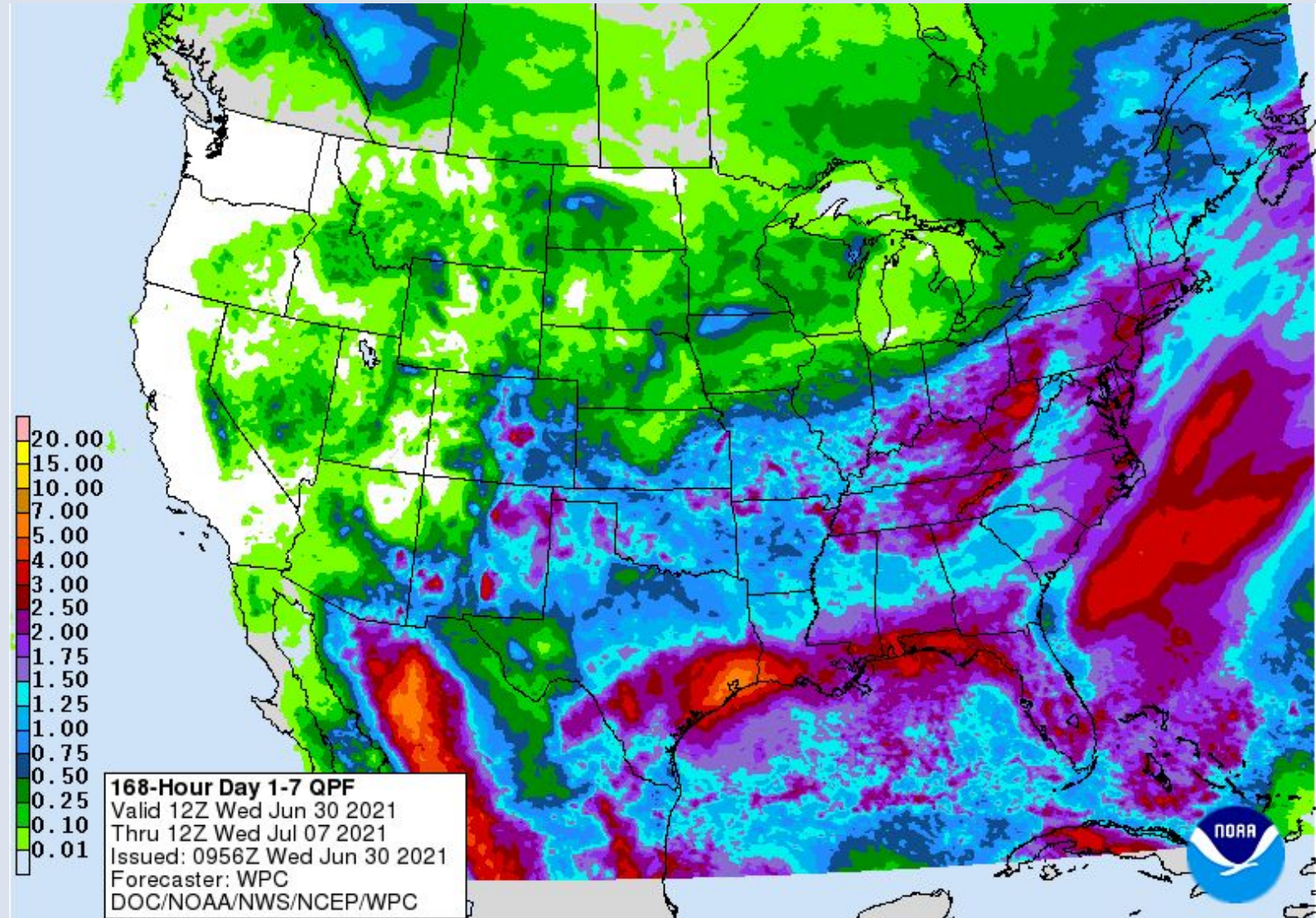
Today	Tonight	Thursday	Thursday Night	Friday	Friday Night	Saturday	Saturday Night	Independence Day
 30% → 60%	 30% 20%	 30%	 60%	 80%	 60%	 40%	 40%	 40%
Severe Thunderstorms	Severe Thunderstorms then Slight Chance Showers	Chance Showers	Showers Likely	Showers	Showers Likely	Chance Showers	Chance Showers	Chance Showers
High: 89 °F	Low: 67 °F	High: 80 °F	Low: 56 °F	High: 66 °F	Low: 54 °F	High: 68 °F	Low: 54 °F	High: 71 °F

7 – Day Forecast



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- 7-Day rainfall forecast over the next week shows near to below average rainfall for interior mountain locations.
- Near average rainfall for the coastal plain.



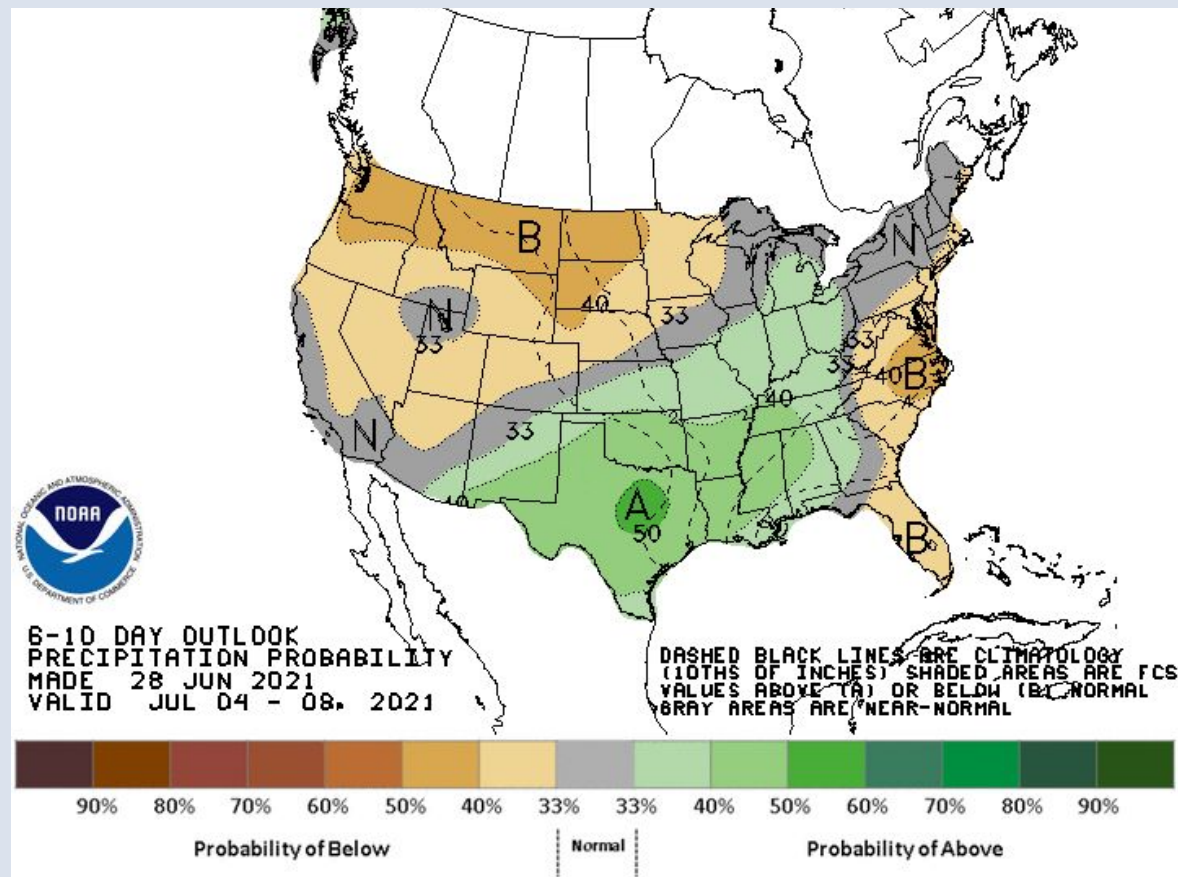
Long Term Outlook

July 4-9

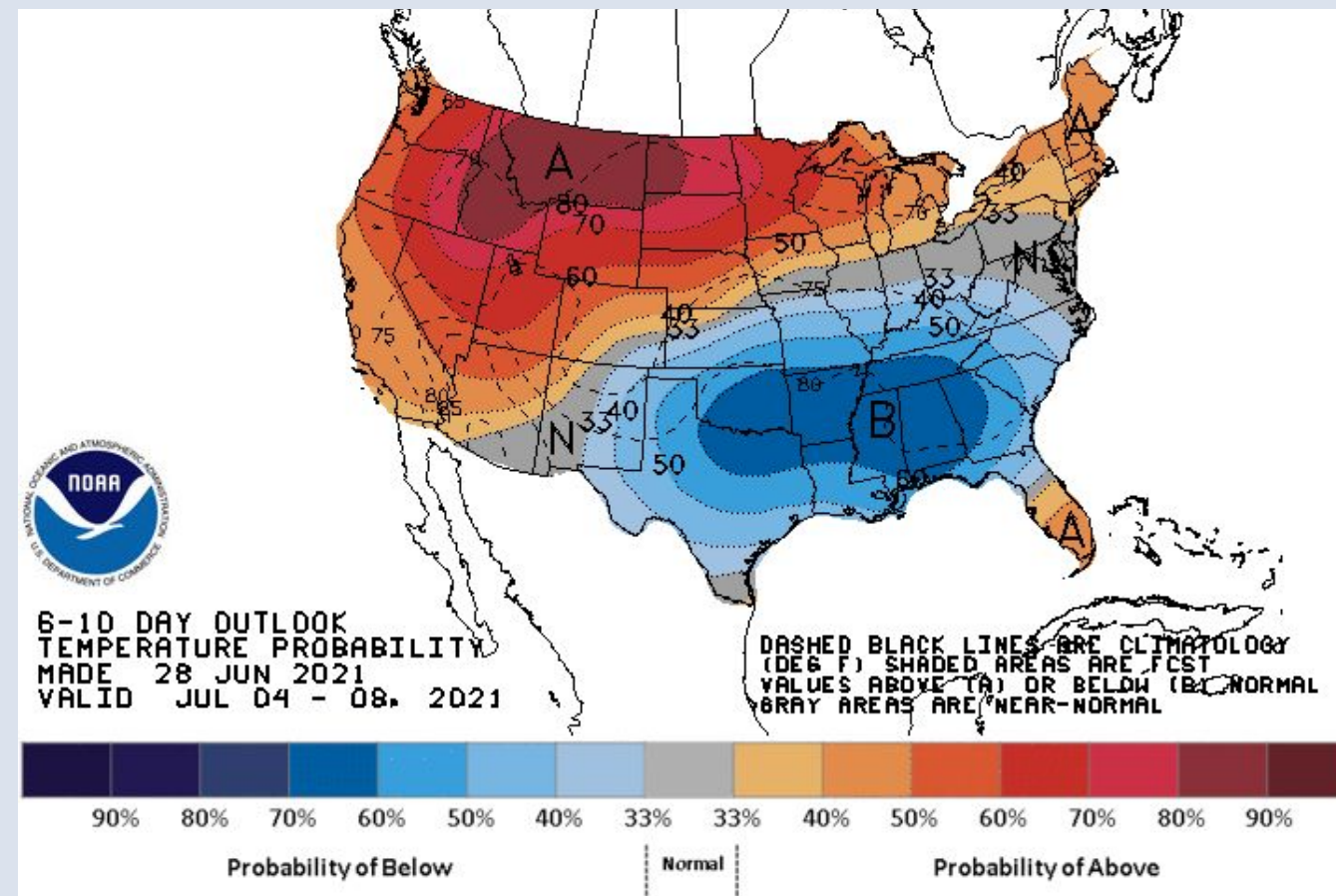


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- Moderate confidence in above average temperatures



- Weak signal favoring below normal precipitation



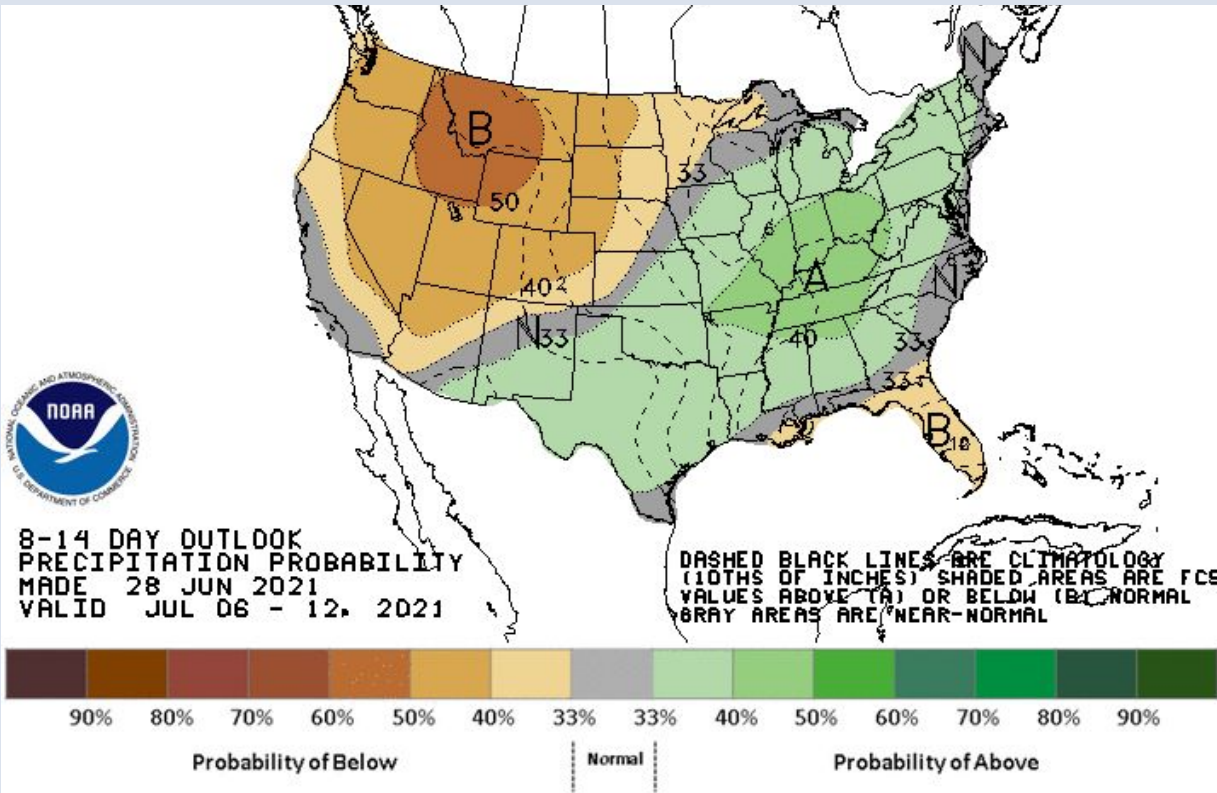
Long Term Outlook

July 6-12

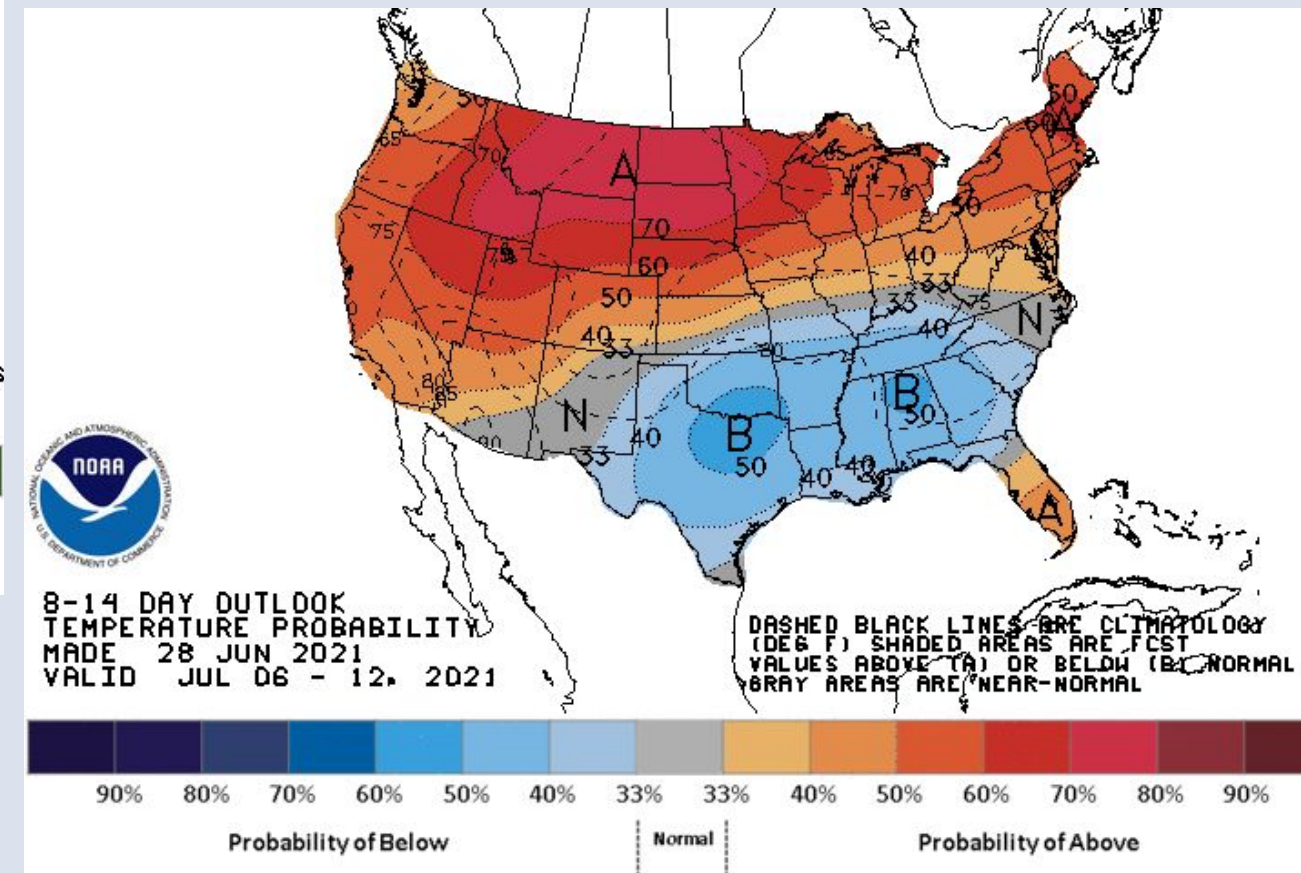


Gray/Portland
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- Moderate confidence in above average temperatures



- Weak signal favoring near normal precipitation



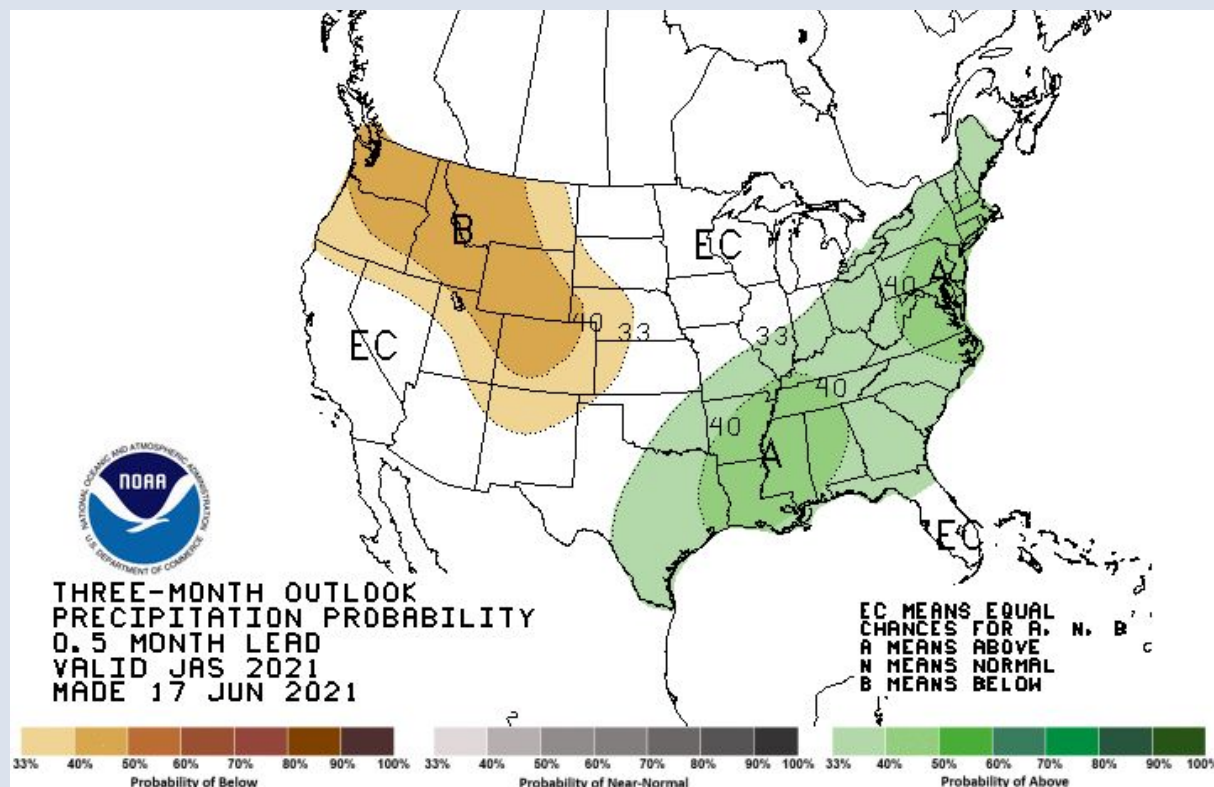
Long Term Outlook

July through September

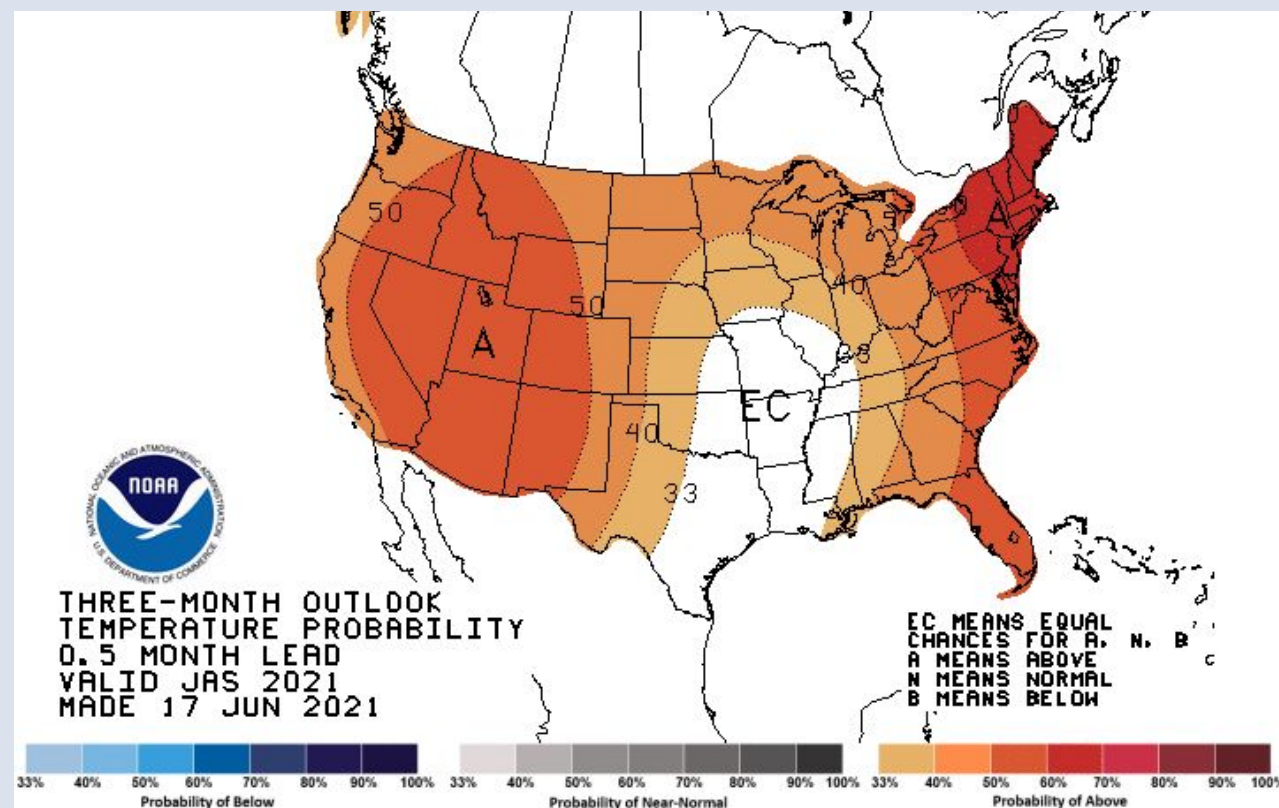


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- Moderate confidence in above average temperatures



- Weak signal favoring above normal precipitation.* Influence from above normal tropical activity



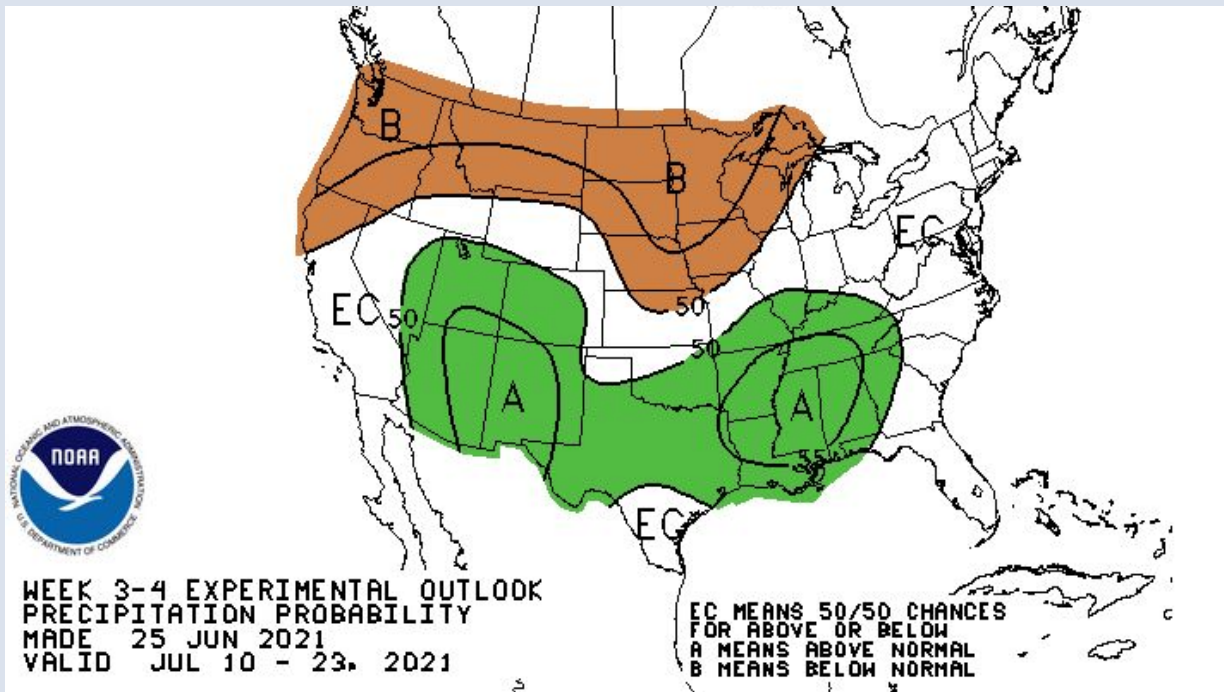
Long Term Outlook

July 10-23

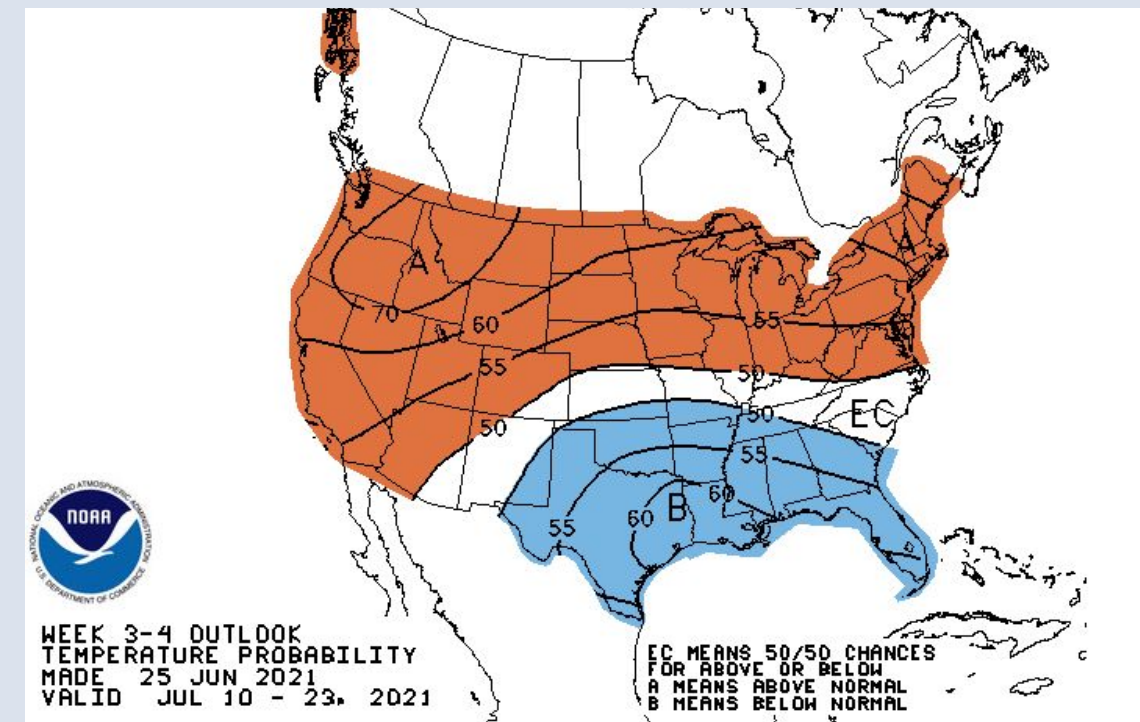


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- Moderate confidence in above average temperatures



- Weak signal favoring near normal precipitation





- Severe Drought (D2) for portions of central Maine (Androscoggin, Kennebec, and Penobscot watersheds). Moderate Drought (D1) and abnormally dry (D0) conditions for the rest of the state.
- Spring rainfall was below normal, and trend has continued into early summer. Warmer than normal temperatures have added more stress to the system.
- Short term pattern supports rain shower chances over the next week but no widespread improvements expected
- Long range outlook is favoring normal precipitation probabilities through July. Moderate confidence for above average temperatures.



Questions?



Web: <http://weather.gov/gray>



Phone: (207) 688-4081



E-mail: gyx.skwarn@noaa.gov



Facebook: NWSGray



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For the latest drought graphics and information go to: www.weather.gov/gyx/EMhome#Drought



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www.weather.gov/gray