

# BAMWX AM AG WEATHER REPORT



7-Jul-23

PREPARED BY: BRET WALTS & KIRK HINZ

## WEEK 1 FORECAST CONFIDENCE



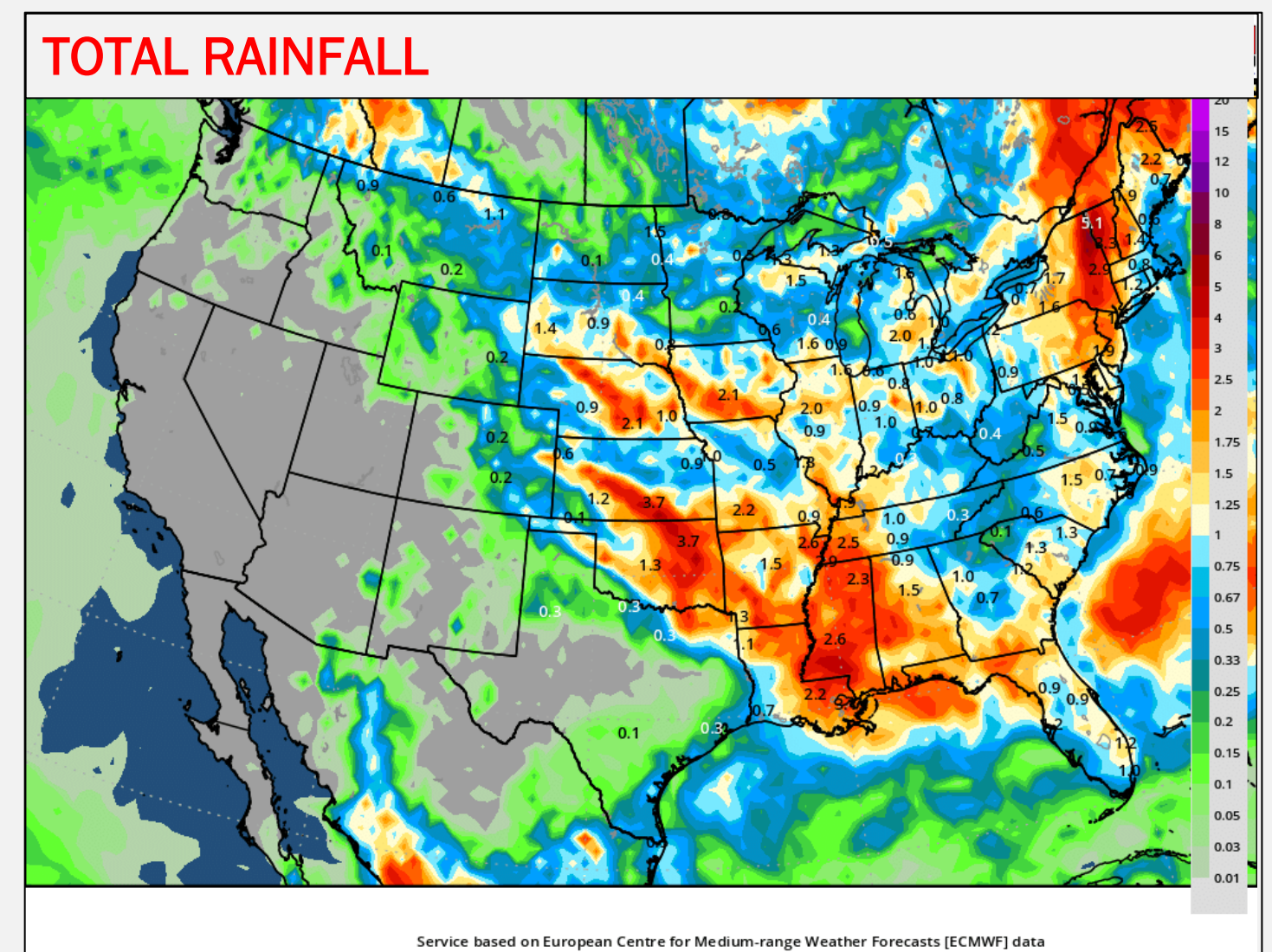
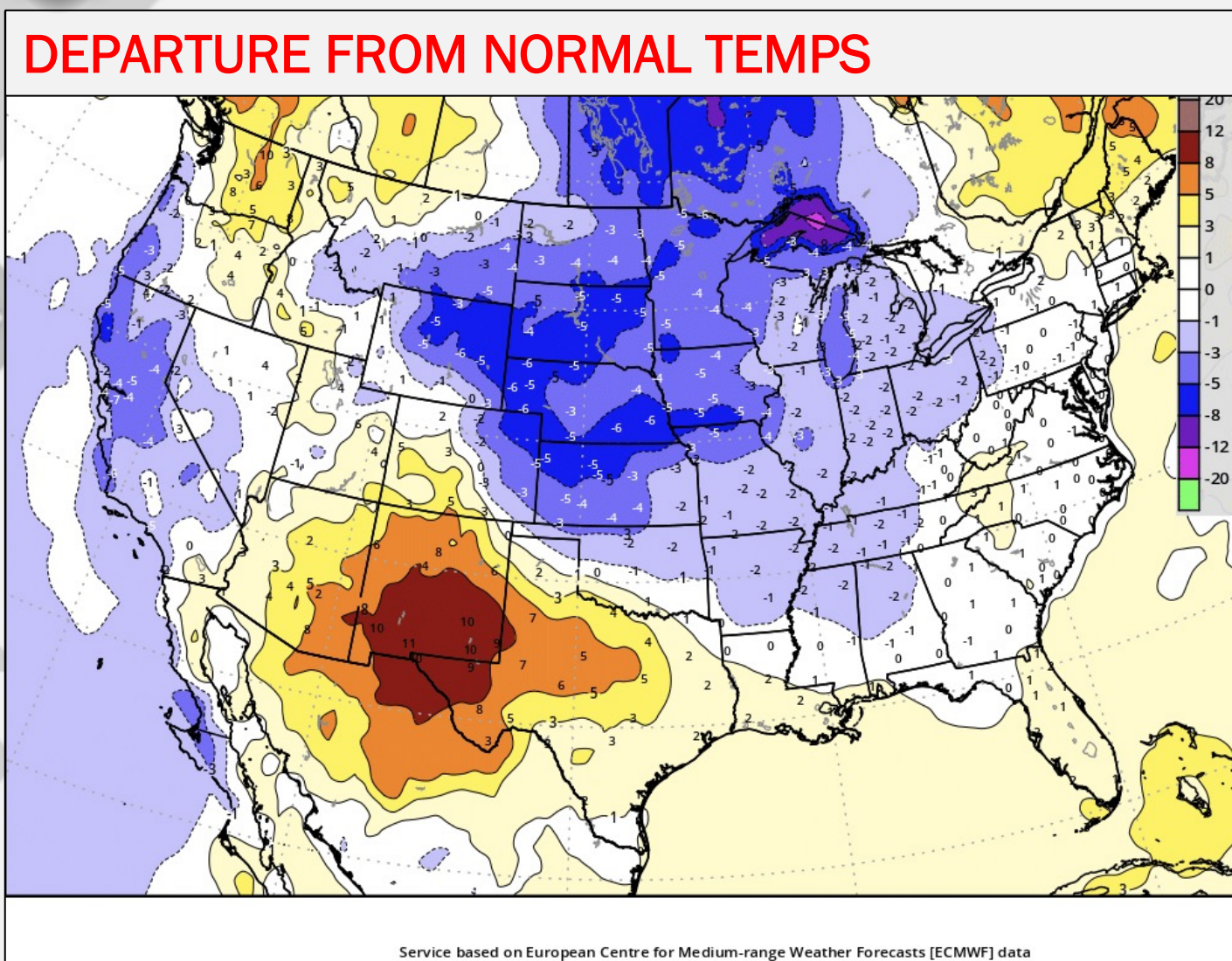
## WEEK 2 FORECAST CONFIDENCE



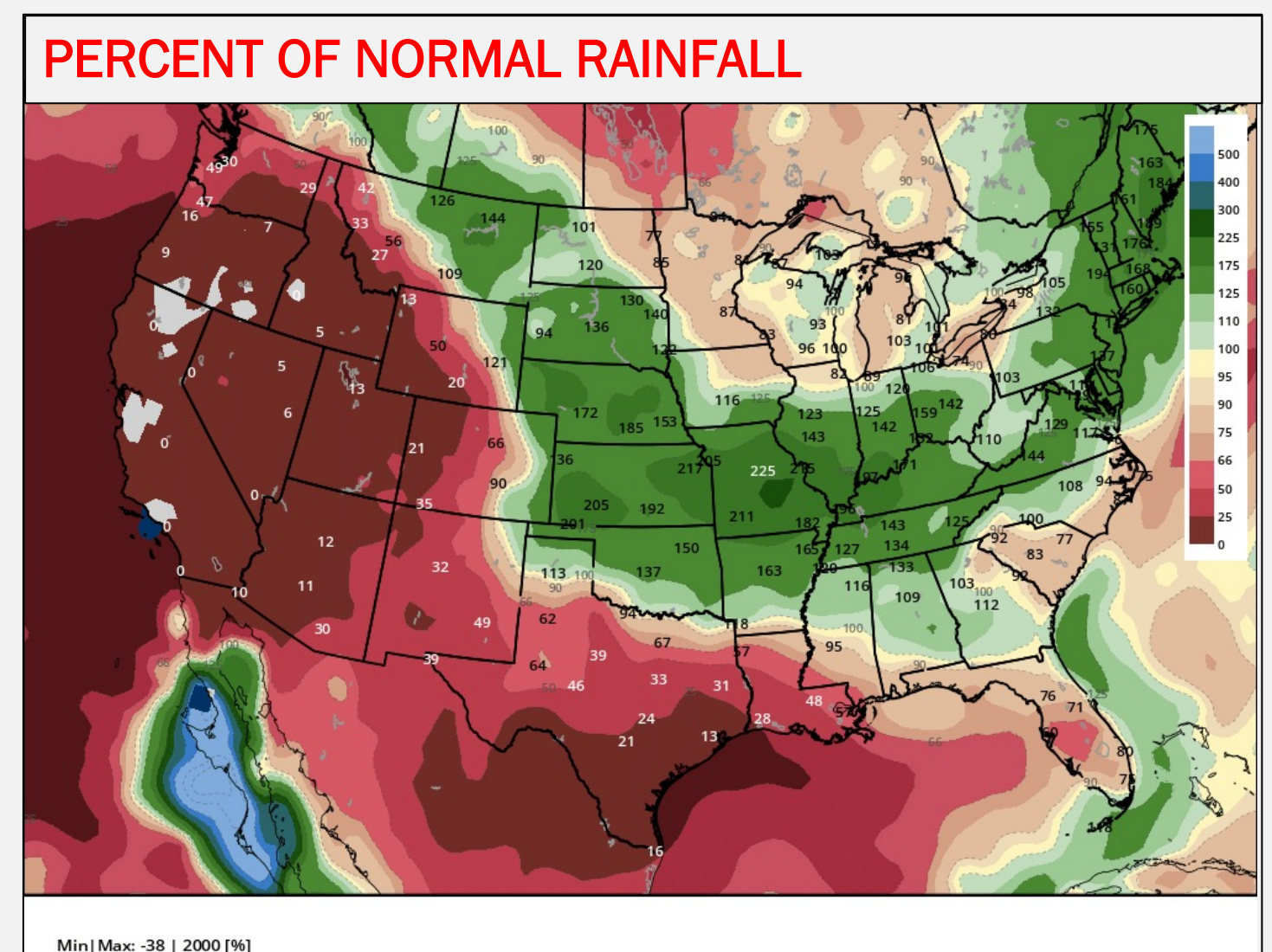
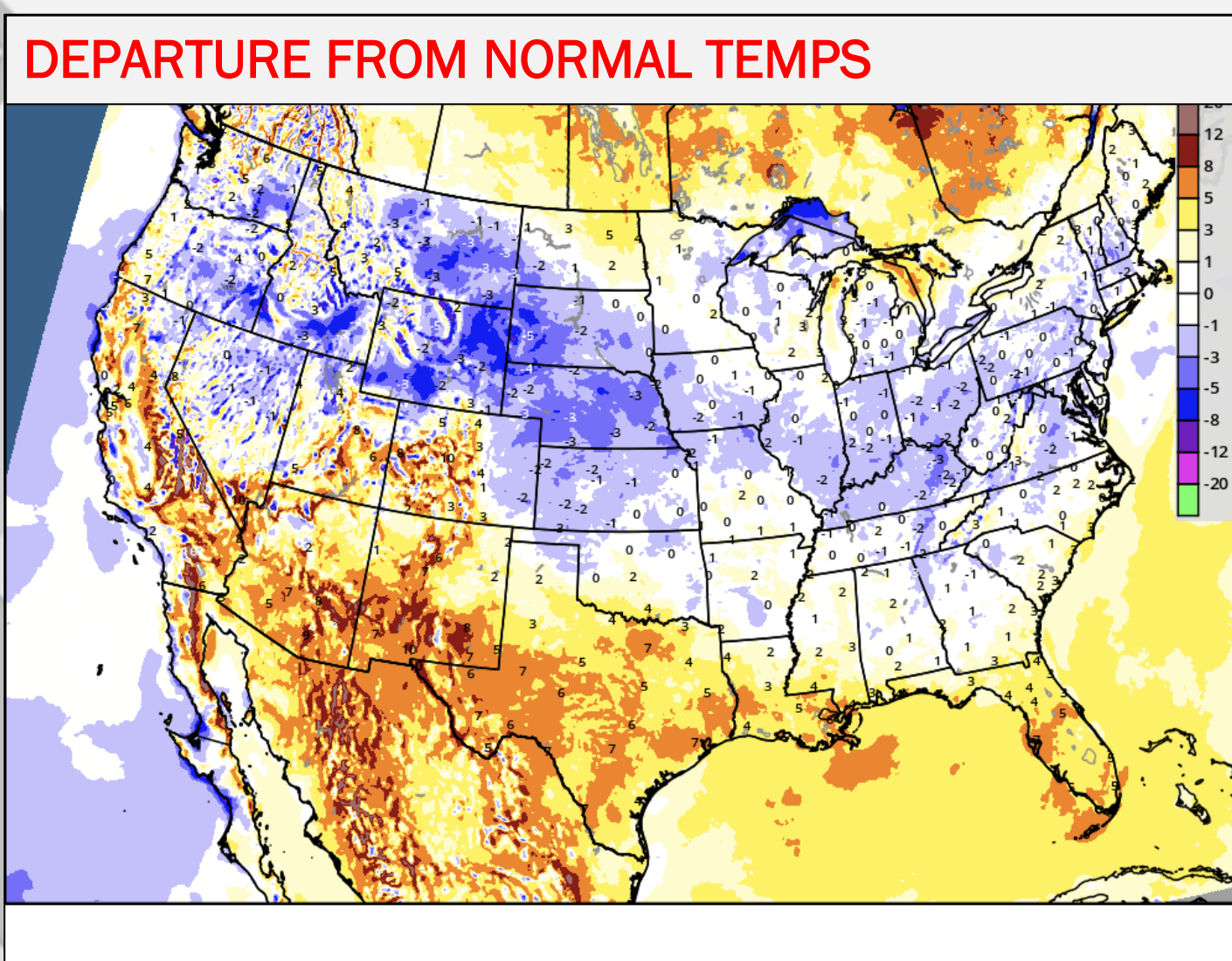
## Storm Dates:

July 7	Storm System / Cold Front
July 8 – 10	Storm System / Cold Front
July 11 – 13	Storm System / Cold Front
July 15 – 17	Storm System
July 19 – 21	Storm System

Week 1:  
Start: 7/7  
End: 7/13



Week 2:  
Start: 7/14  
End: 7/20





# LAST 7 DAYS VERIFICATION

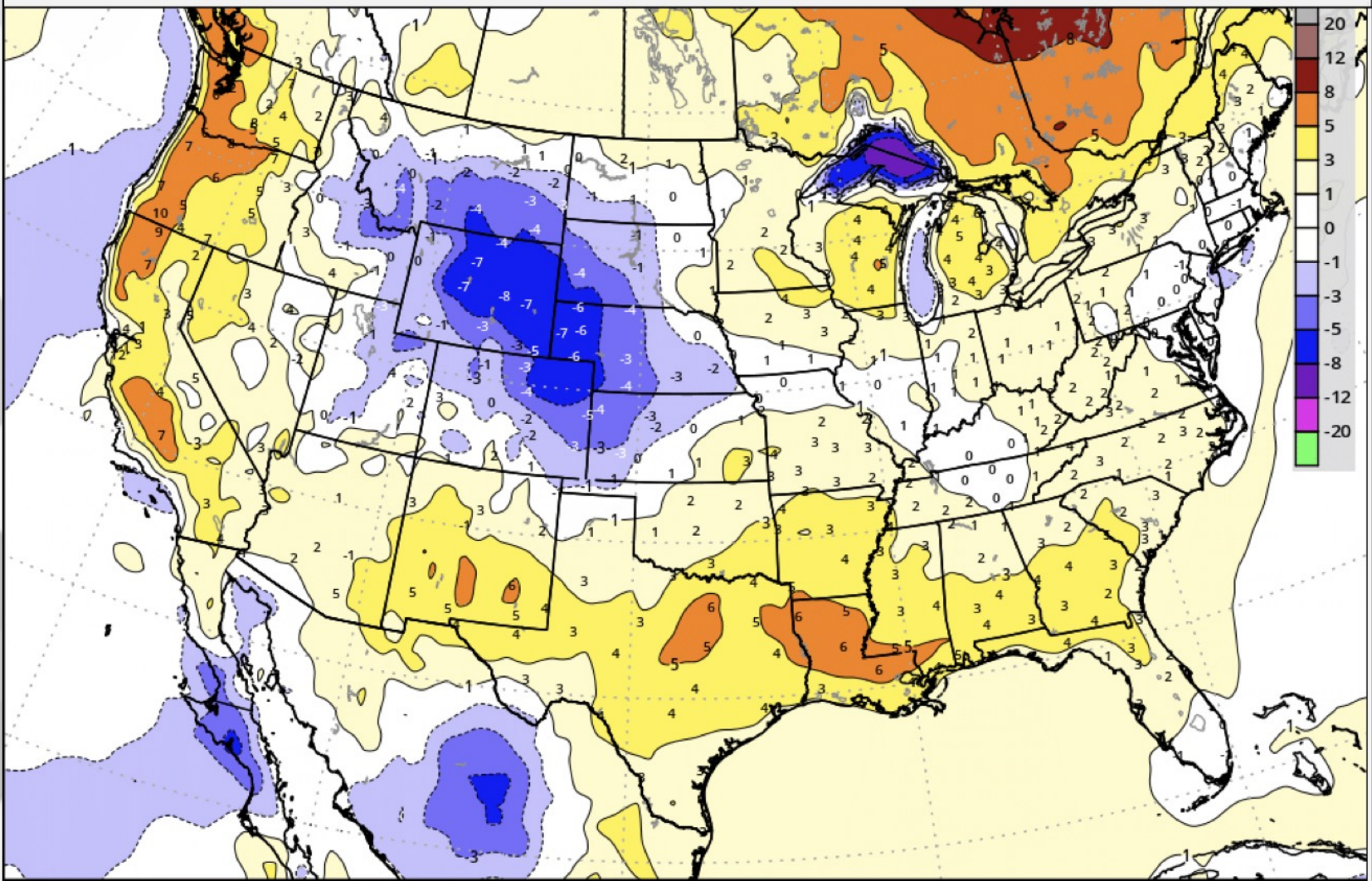


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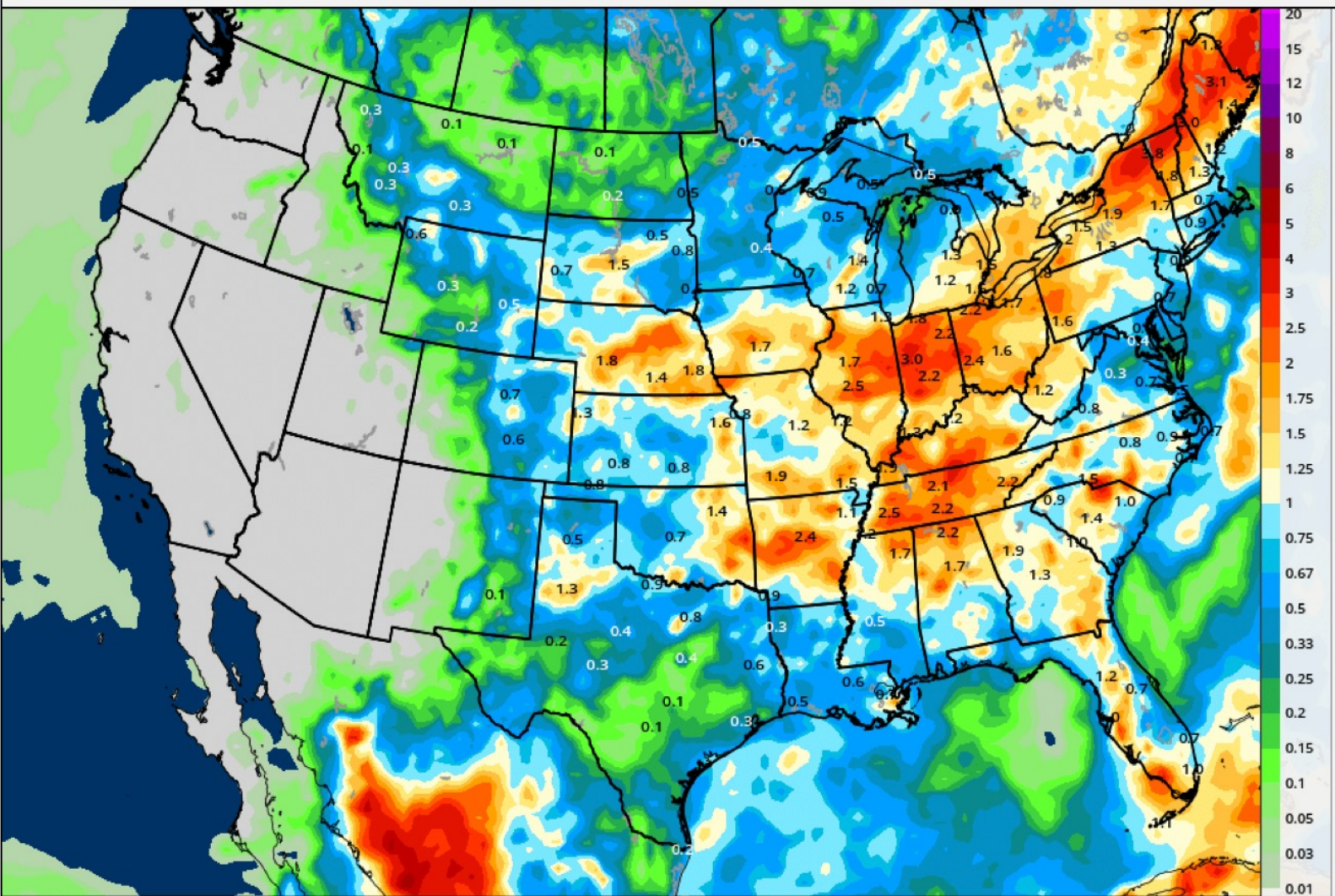
## LAST FRIDAY AM FORECAST

### DEPARTURE FROM NORMAL TEMPS



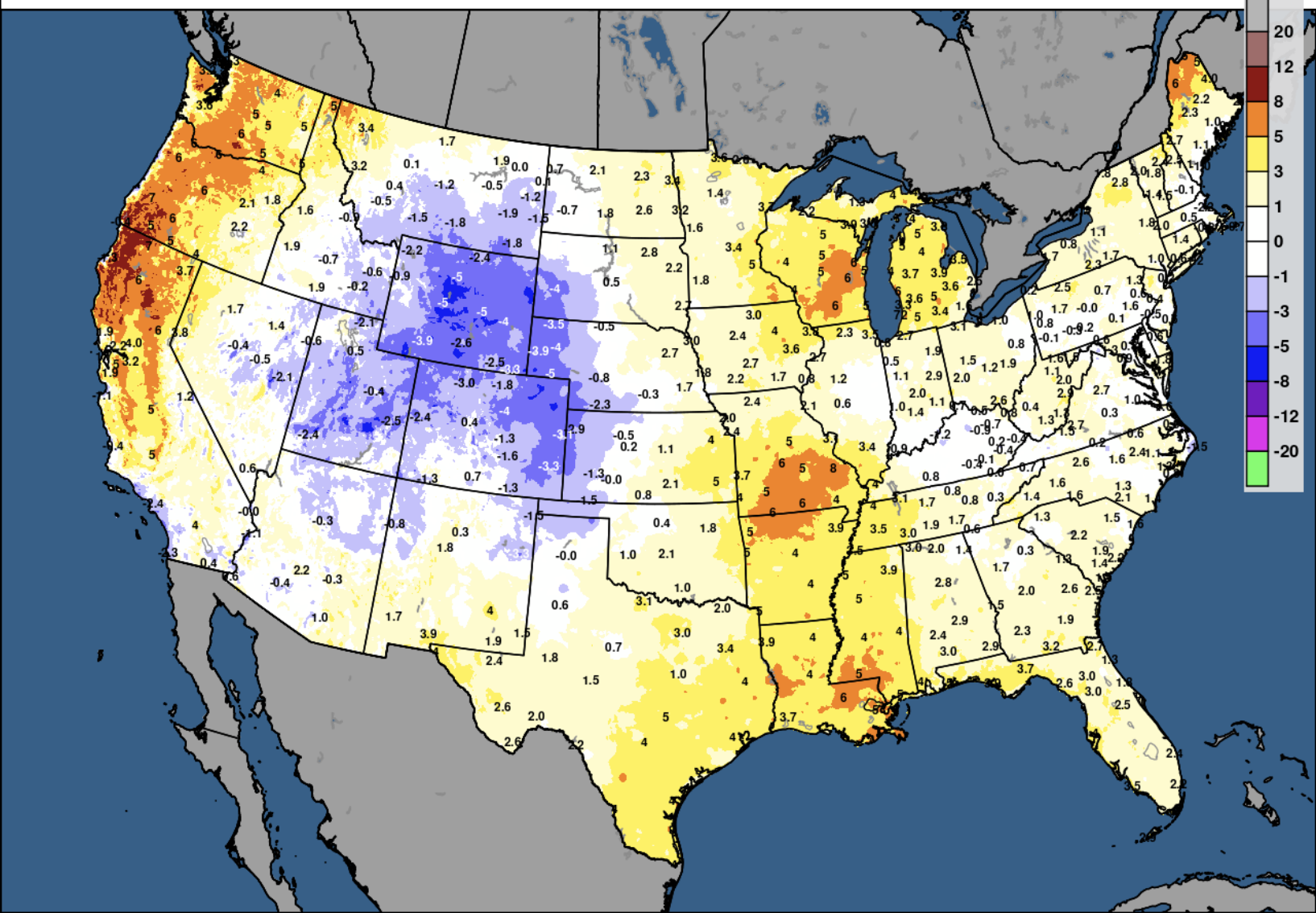
Service based on European Centre for Medium-range Weather Forecasts [ECMWF] data

### TOTAL RAINFALL



## LAST 7 DAYS OBSERVATION

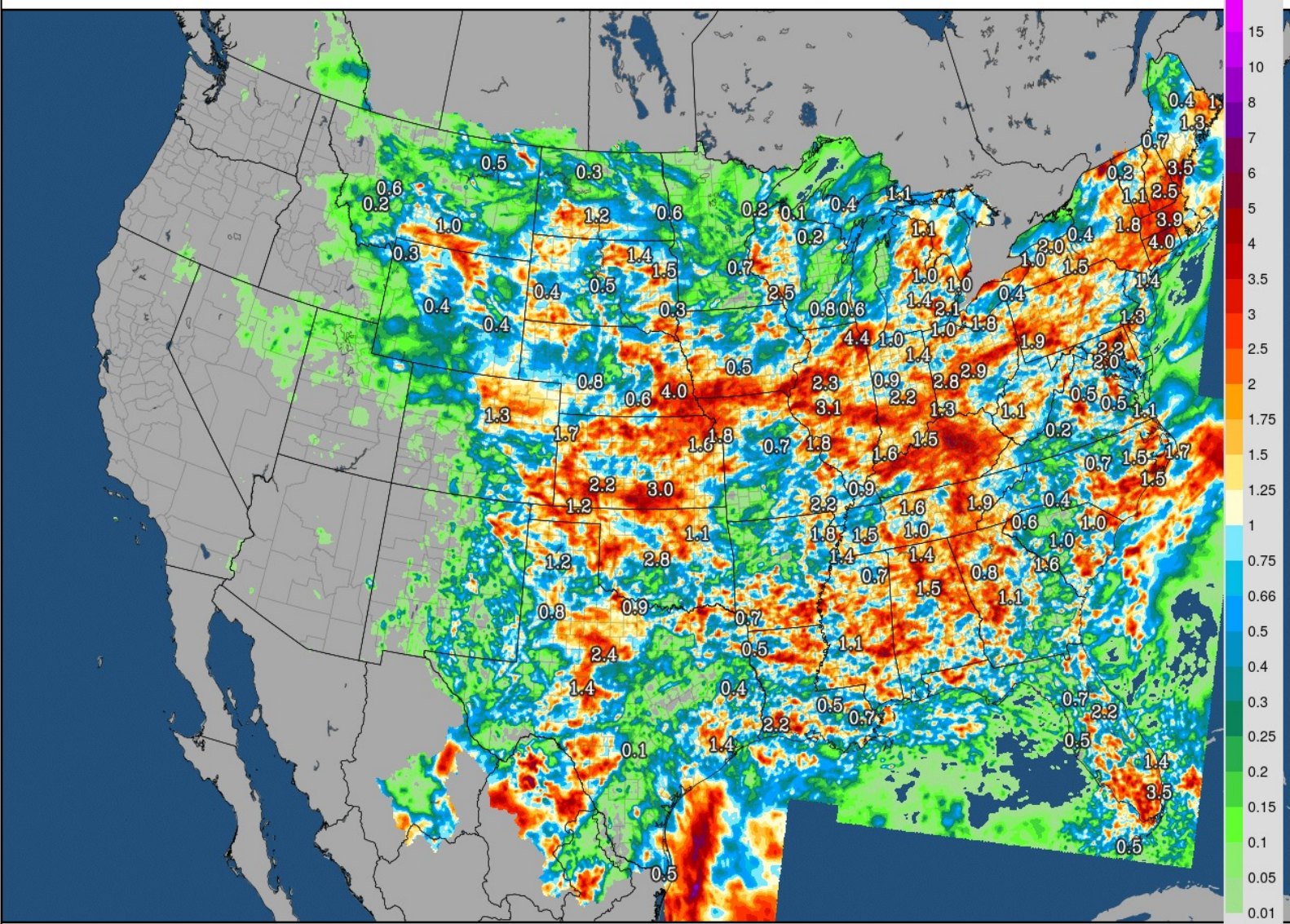
PRISM TEMPERATURE ANALYSIS ANOMALY [°F]: Last 7-Days -> JUL 05, 2023  
LOWER 48 MEAN ANOMALY: 1.51°F



PRISM CLIMATE GROUP OREGON STATE UNIV | 1991-2020 HISTORICAL CLIMATOLOGY

URMA | Total Precipitation [inches] Last 168 hours  
Accum from Fri 06Z30JUN2023 to Fri 06Z07JUL2023

Max: 10.0





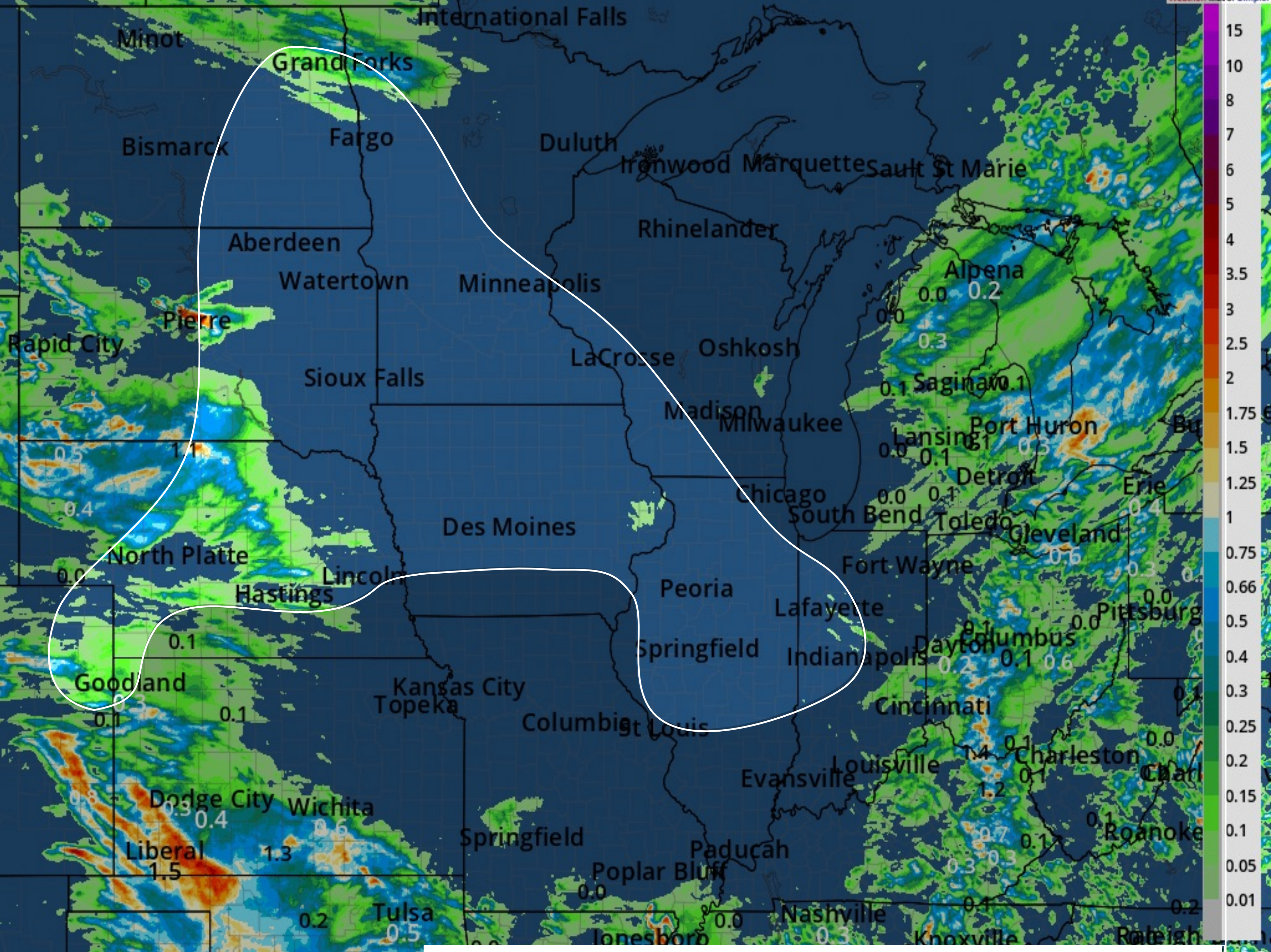
# BAMWX 24-HOUR OBS. RAINFALL



7-Jul-23

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MRMS | Radar+Gauge Precipitation [inches] Last 24 hours  
Accum from 09Z06JUL2023 to Fri 09Z07JUL2023



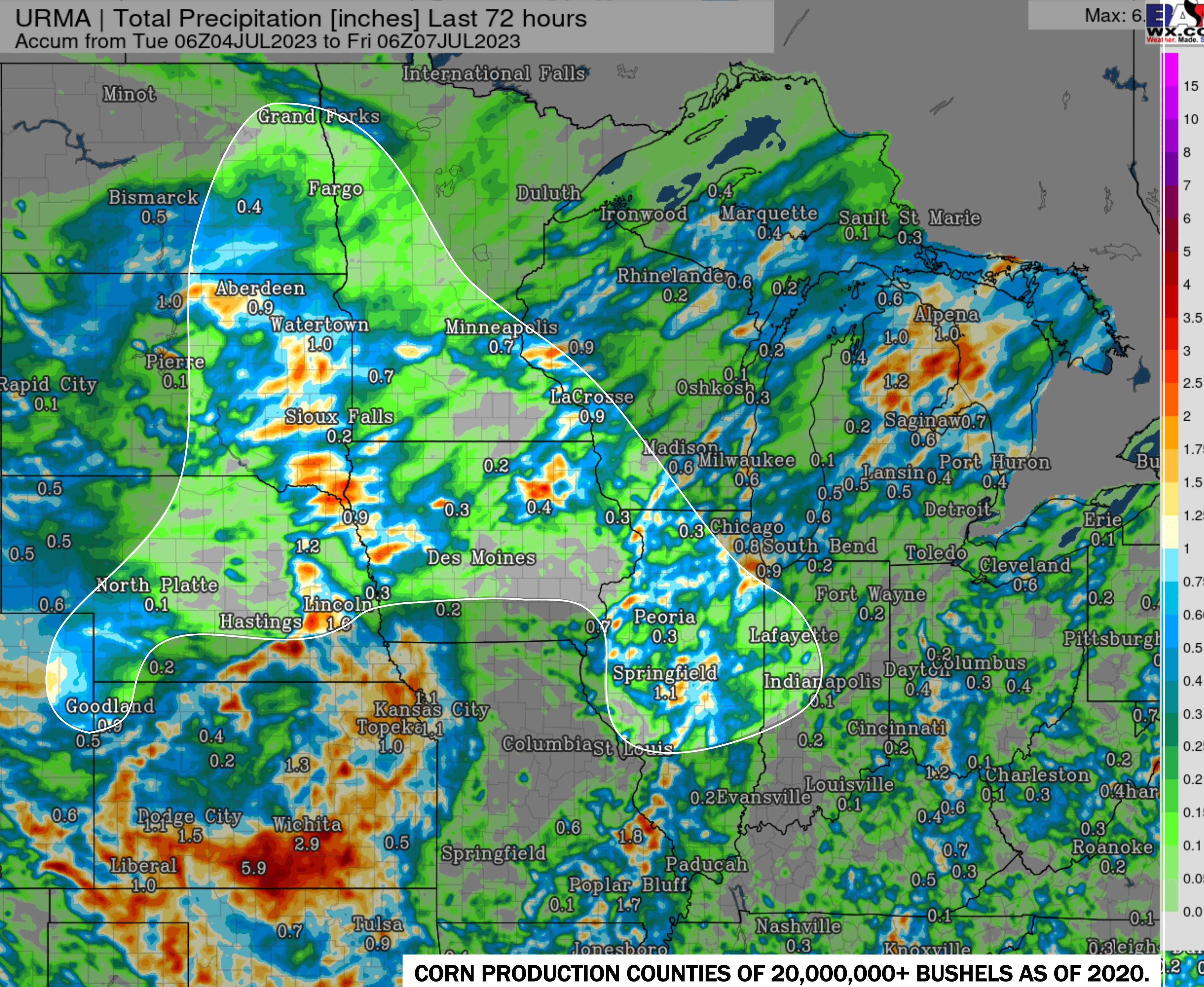
CORN PRODUCTION COUNTIES OF 20,000,000+ BUSHELS AS OF 2020.



# BAMWX 72-HOUR OBS. RAINFALL

7-Jul-23

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# BAMWX 7-DAY OBS. RAINFALL

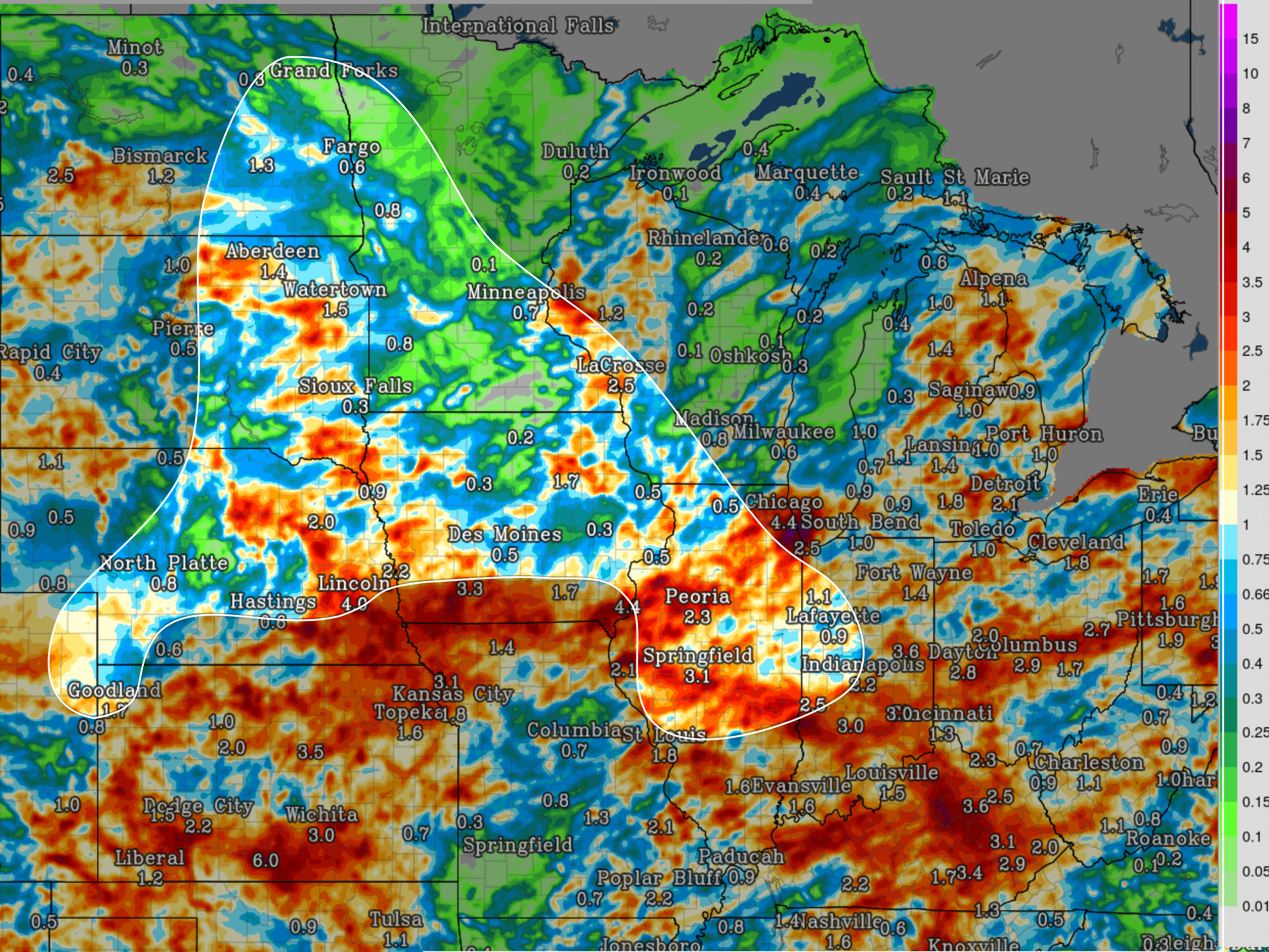
7-Jul-23

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URMA | Total Precipitation [inches] Last 168 hours  
Accum from Fri 06Z30JUN2023 to Fri 06Z07JUL2023

Max: 8.



CORN PRODUCTION COUNTIES OF 20,000,000+ BUSHELS AS OF 2020.



# BAMWX 2 WEEK OBS. RAINFALL

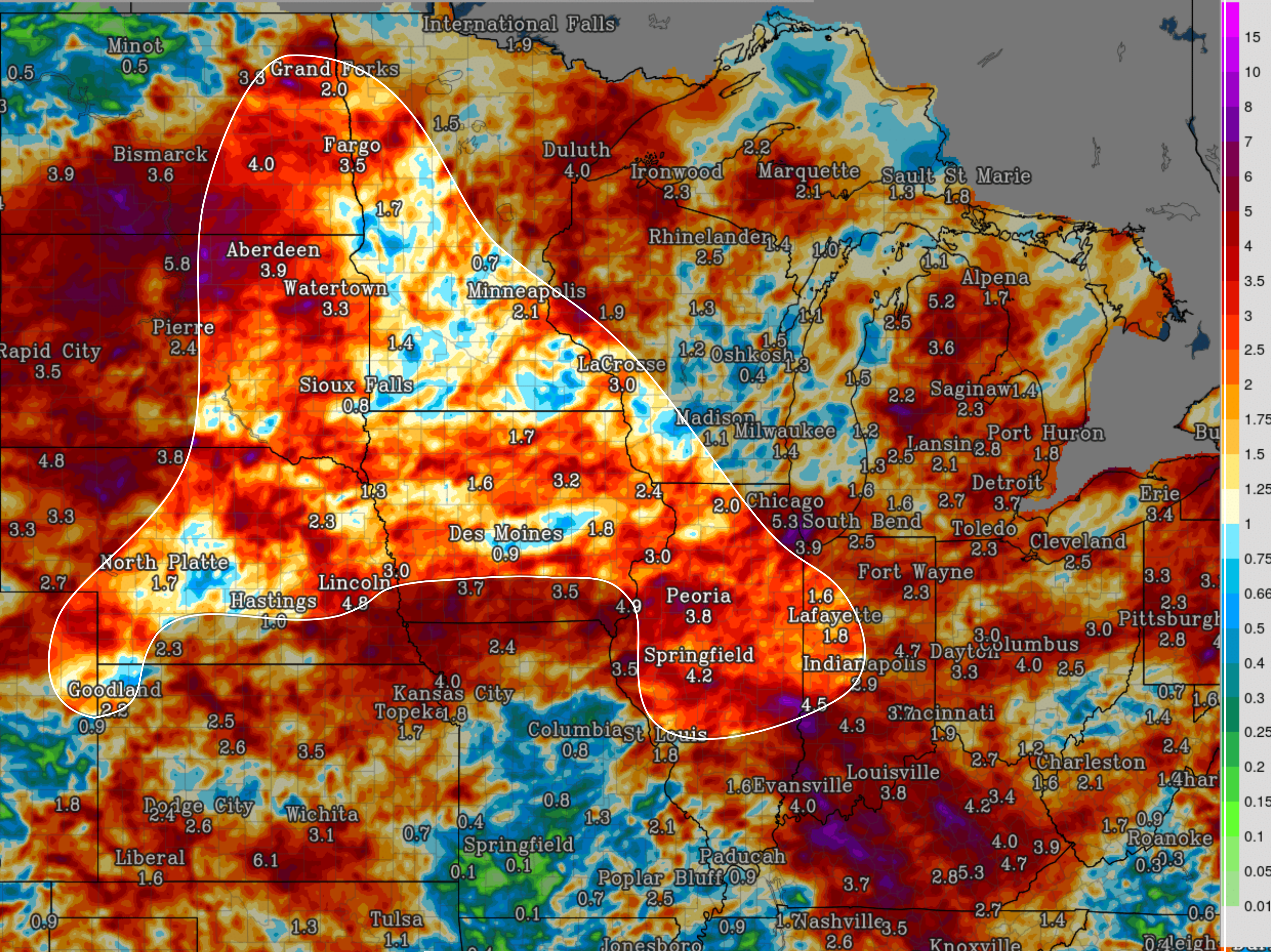
7-Jul-23

PREPARED BY: BRET WALTS & KIRK HINZ



URMA | Total Precipitation [inches] Last 336 hours  
Accum from Fri 06Z23JUN2023 to Fri 06Z07JUL2023

Max: 9.



CORN PRODUCTION COUNTIES OF 20,000,000+ BUSHELS AS OF 2020.

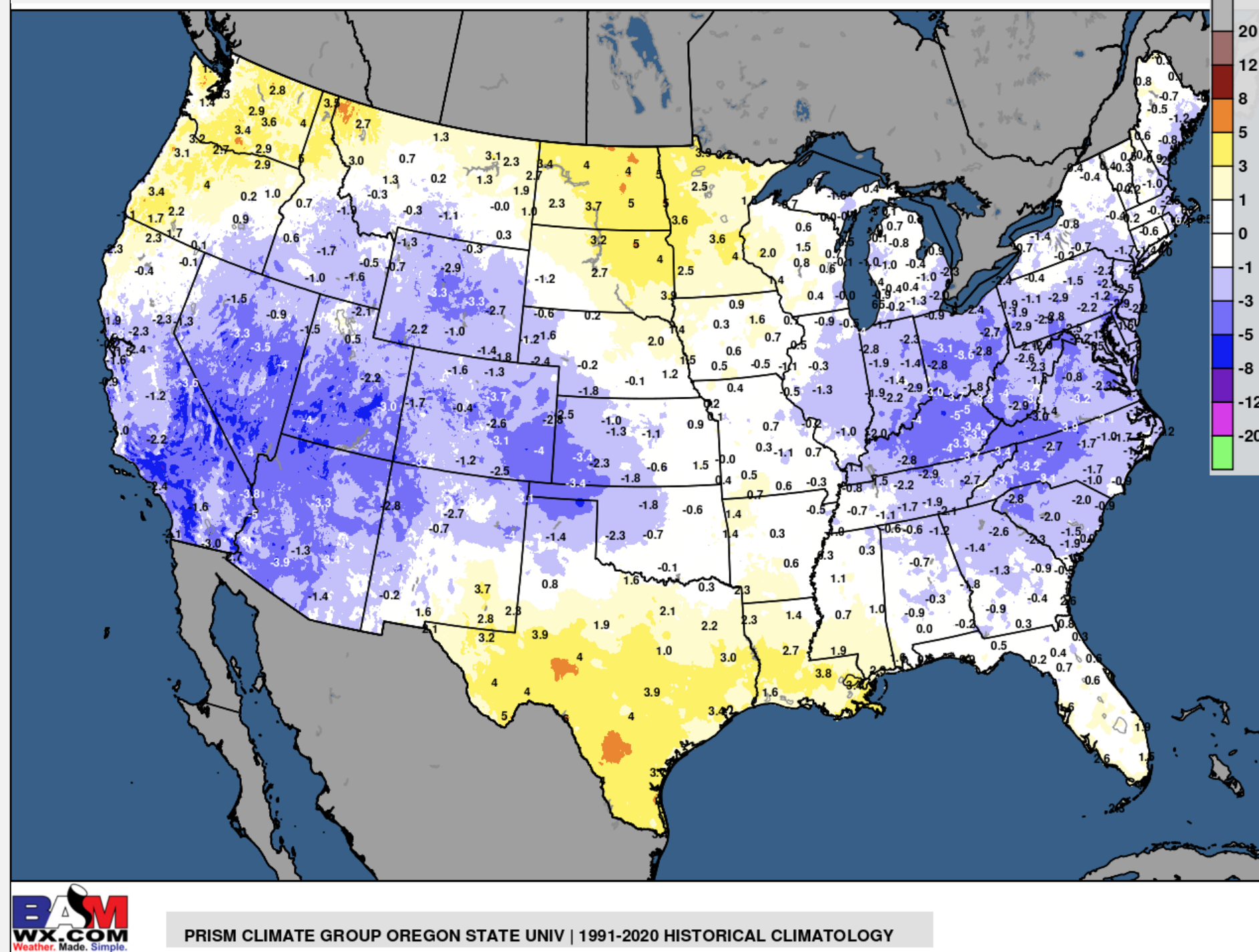


# 30-DAY OBSERVATIONS

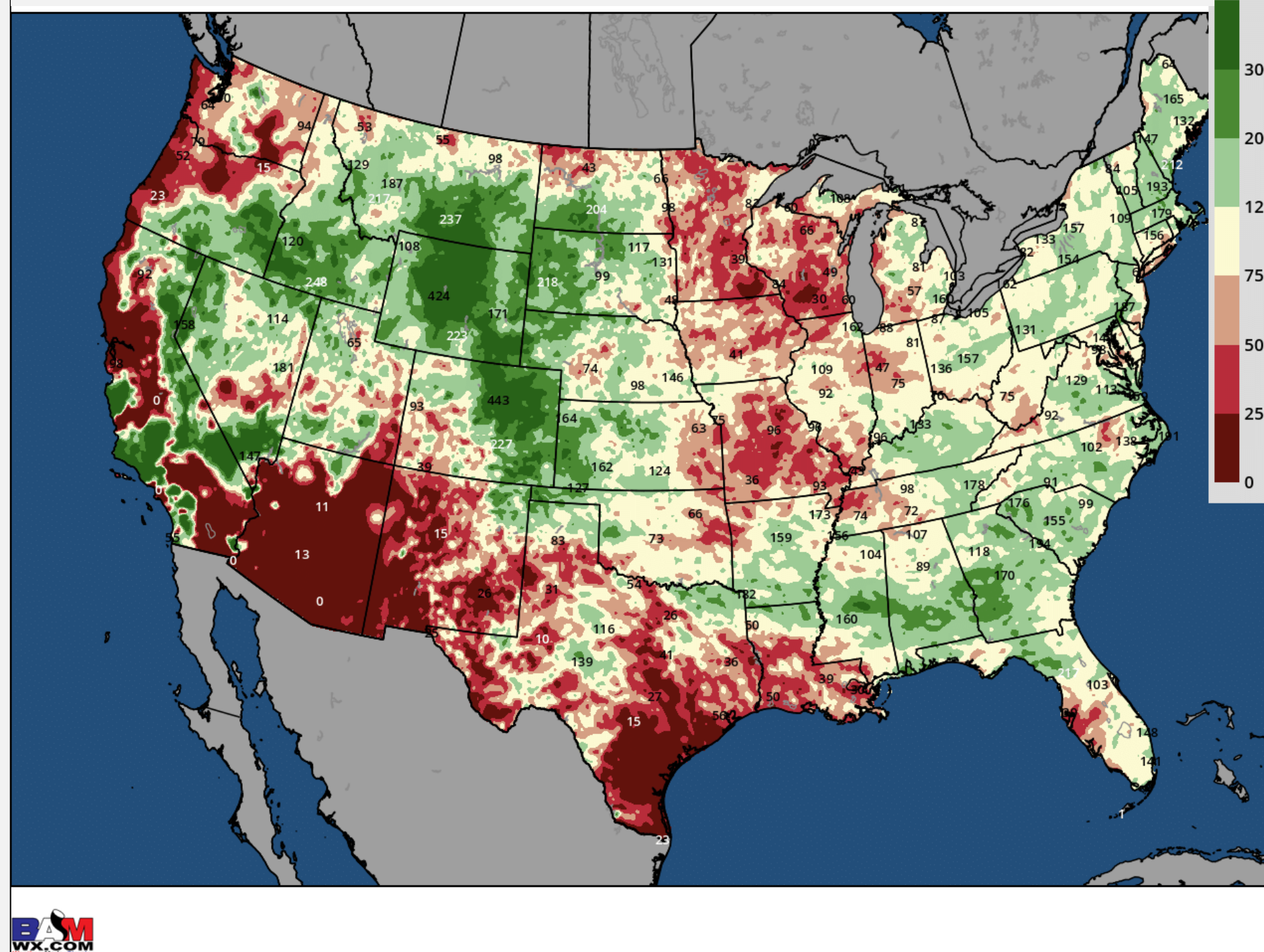
7-Jul-23

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## 30-DAY TEMPERATURE DEPARATURE FROM NORMAL



## 30-DAY PERCENT OF NORMAL RAINFALL



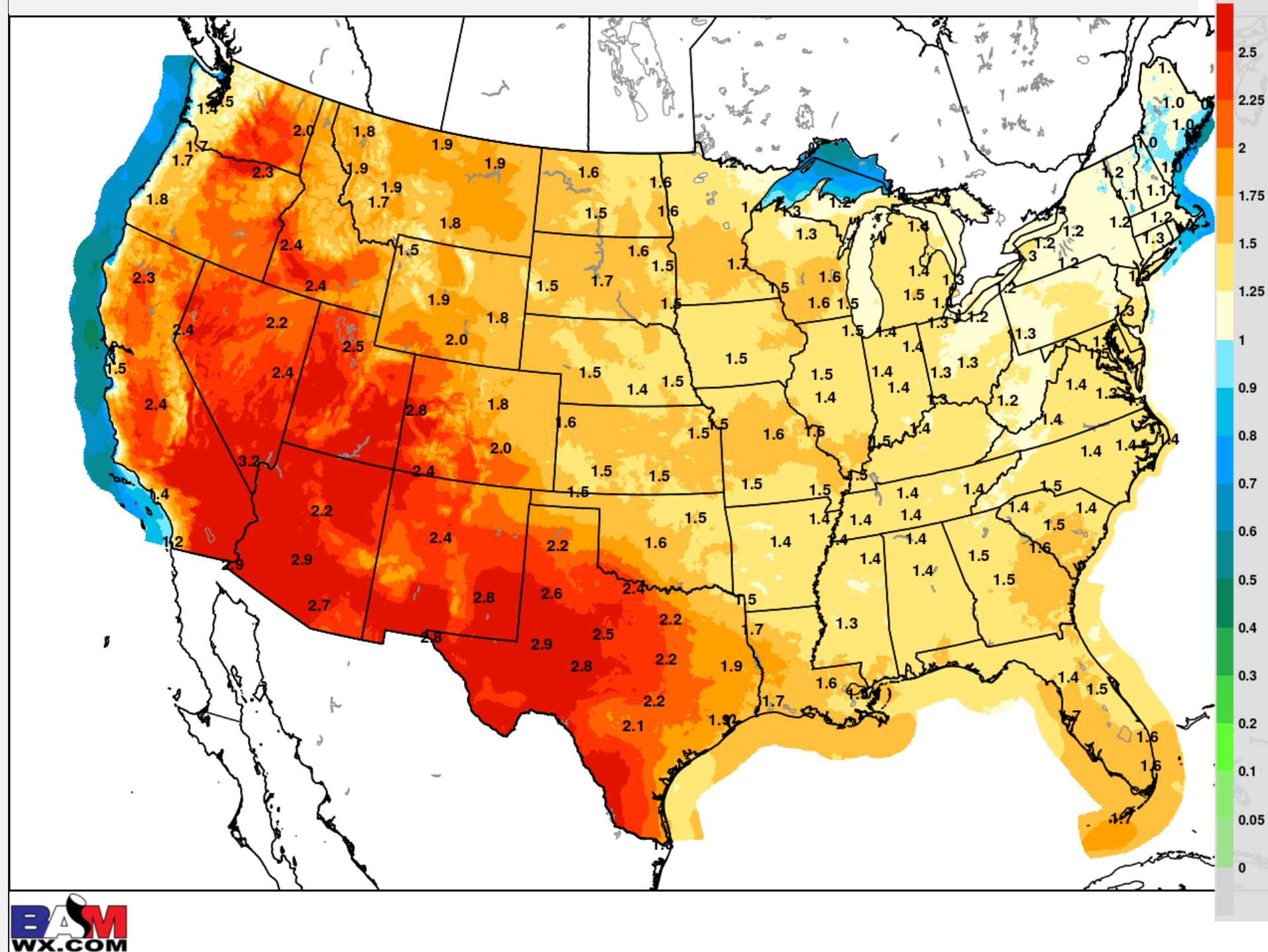


# 7-DAY EVAPOTRANSPIRATION RATE

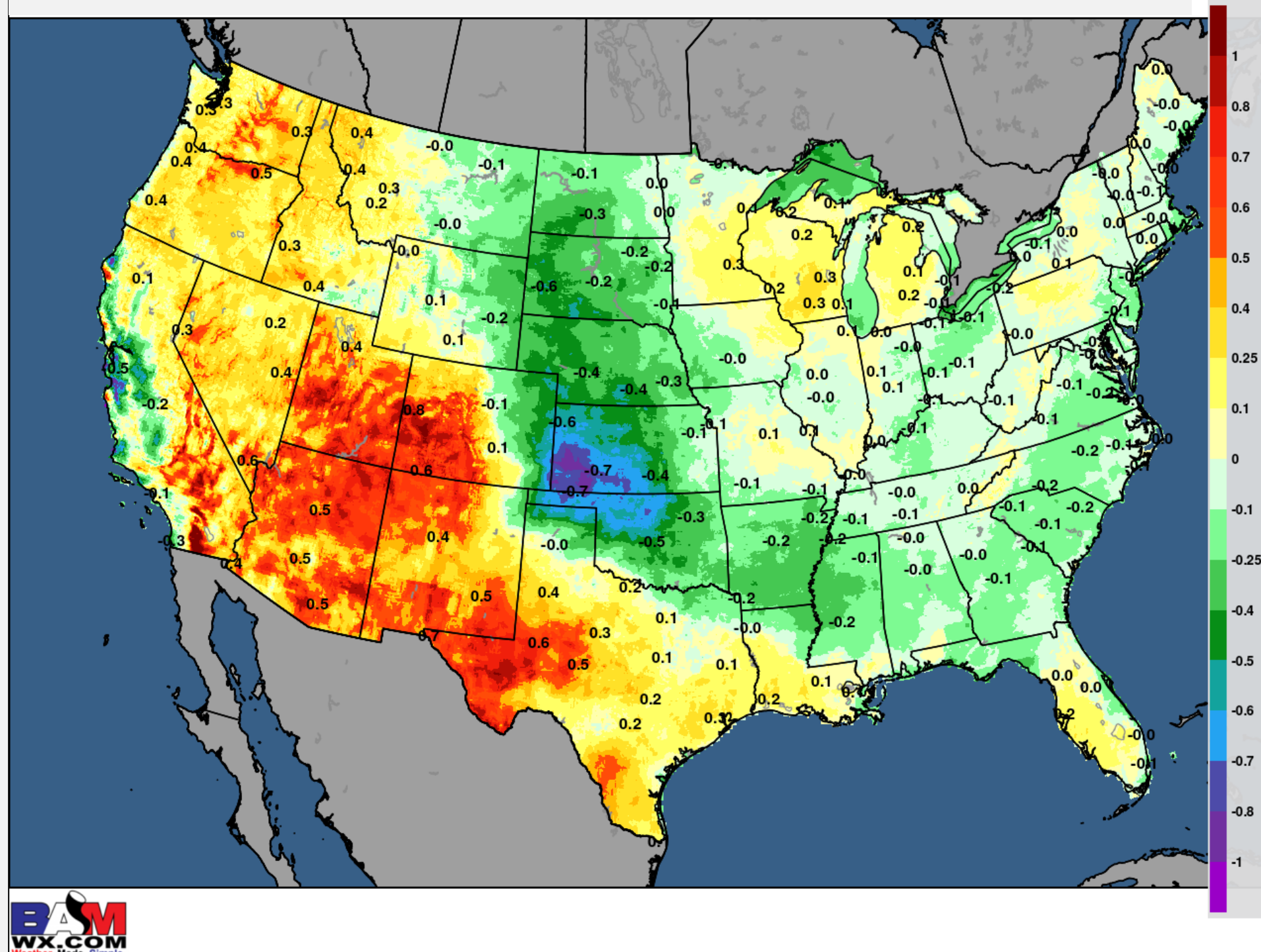
7-Jul-23

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7 DAY TOTAL FORECAST ET RATE



7 DAY TOTAL FORECAST ET RATE DEPARTURE FROM NORMAL



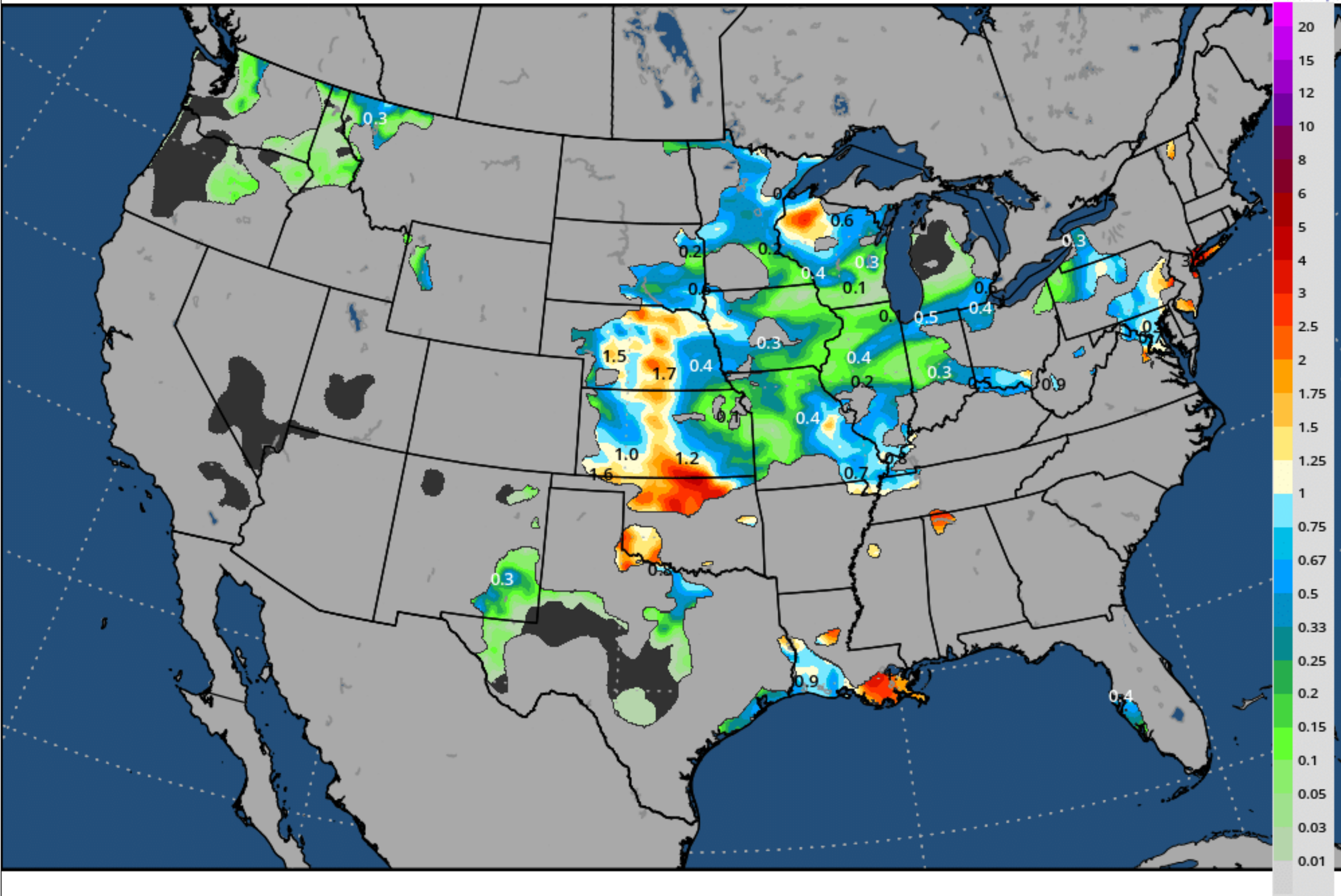


# GFS 1-5 DAY RAIN + (D1-D4 DROUGHT)

7-Jul-23

PREPARED BY: BRET WALTS & KIRK HINZ

GFSv16 | 5-Day Precipitation [inch] | At Least Moderate Drought [D1-D4]  
Init: Fri 00Z07JUL2023 +[120] HOURS --> Valid Wed 00Z12JUL2023



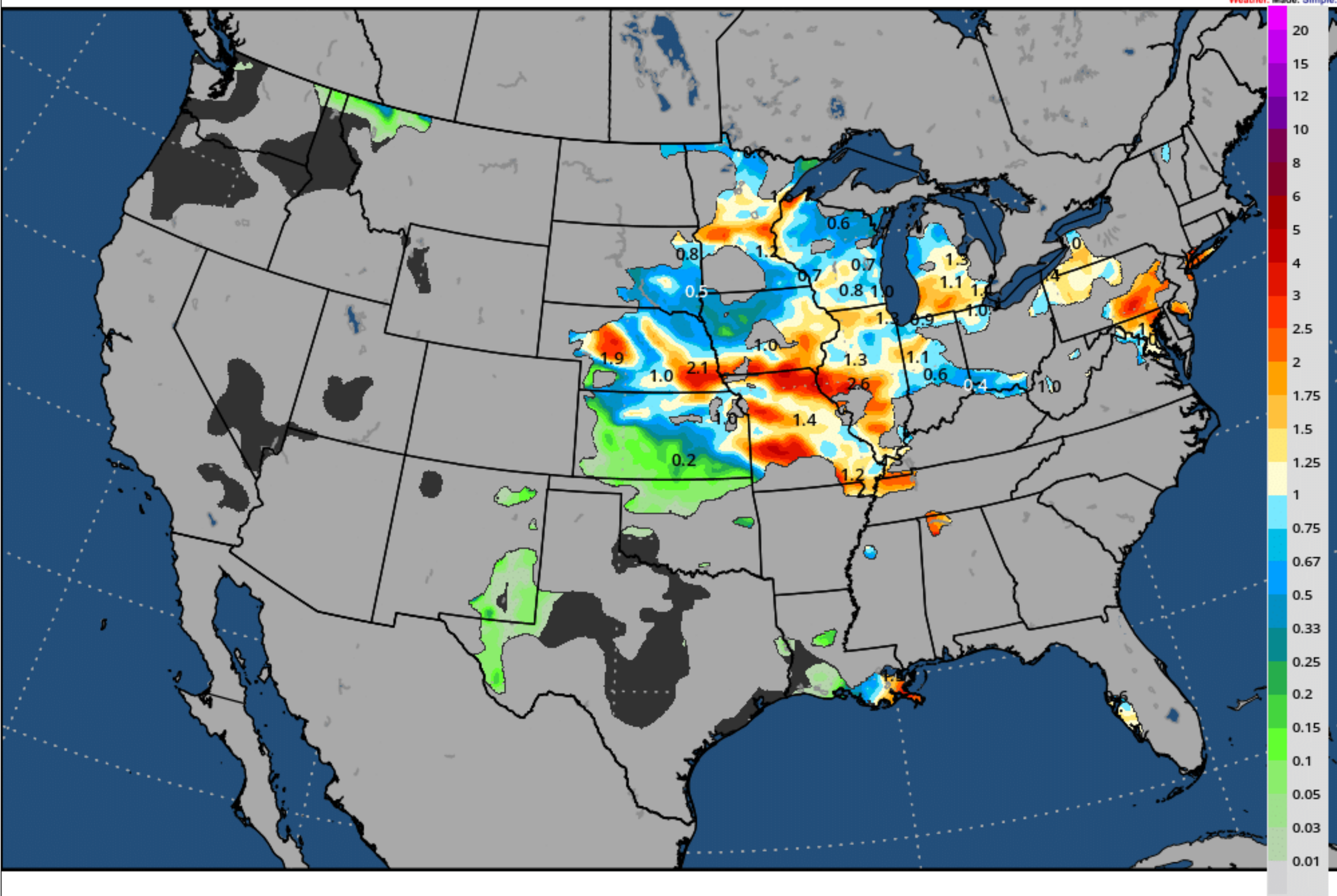


# GFS 6-10 DAY RAIN + (D1-D4 DROUGHT)

7-Jul-23

PREPARED BY: BRET WALTS & KIRK HINZ

GFSv16 | 5-Day Precipitation [inch] | At Least Moderate Drought [D1-D4]  
Init: Fri 00Z07JUL2023 +[240] HOURS --> Valid Mon 00Z17JUL2023





# BAMWX AM PRECIP TRENDS

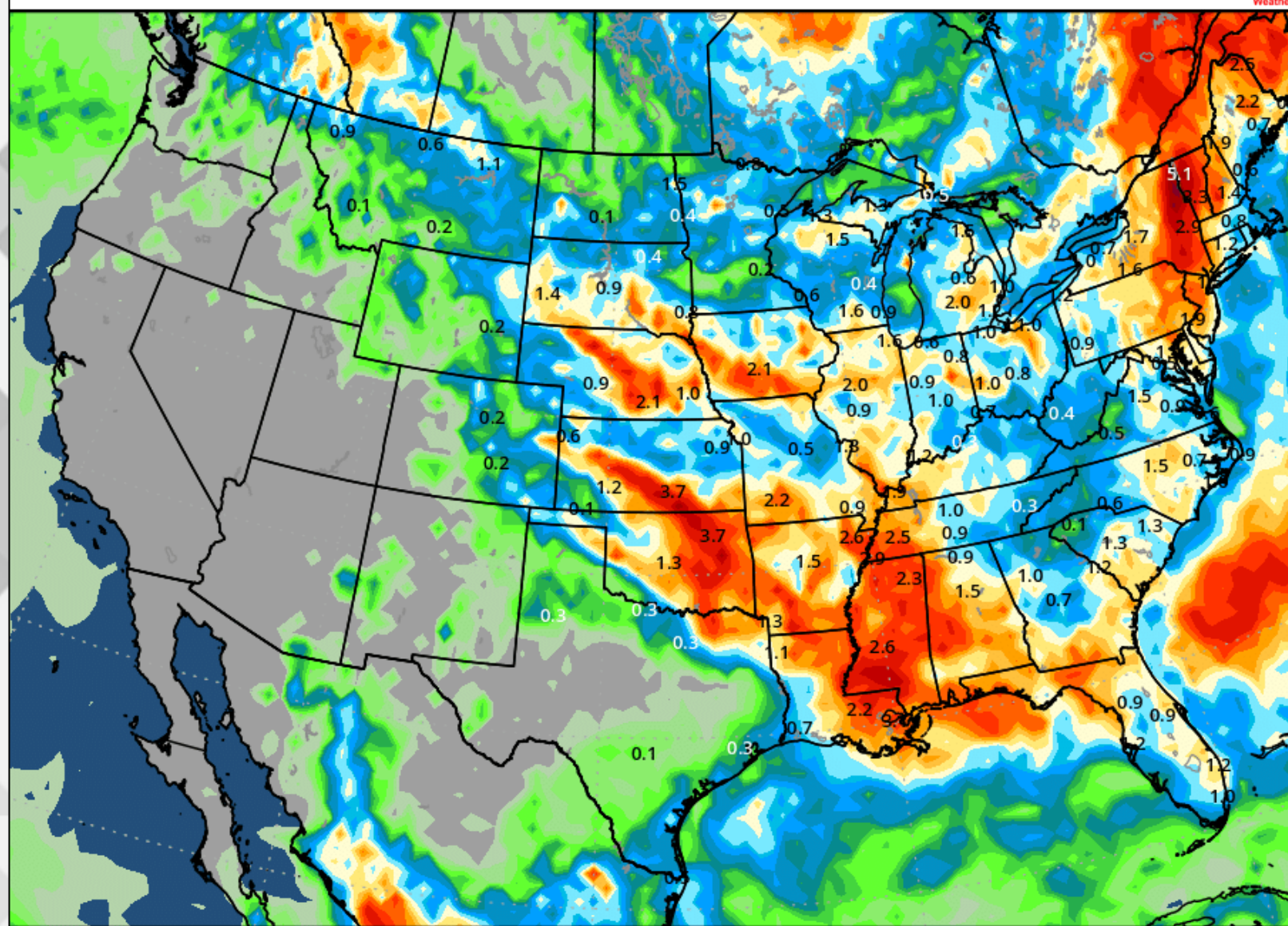
7-Jul-23

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## July 7 – 13, 2023 Precipitation Data

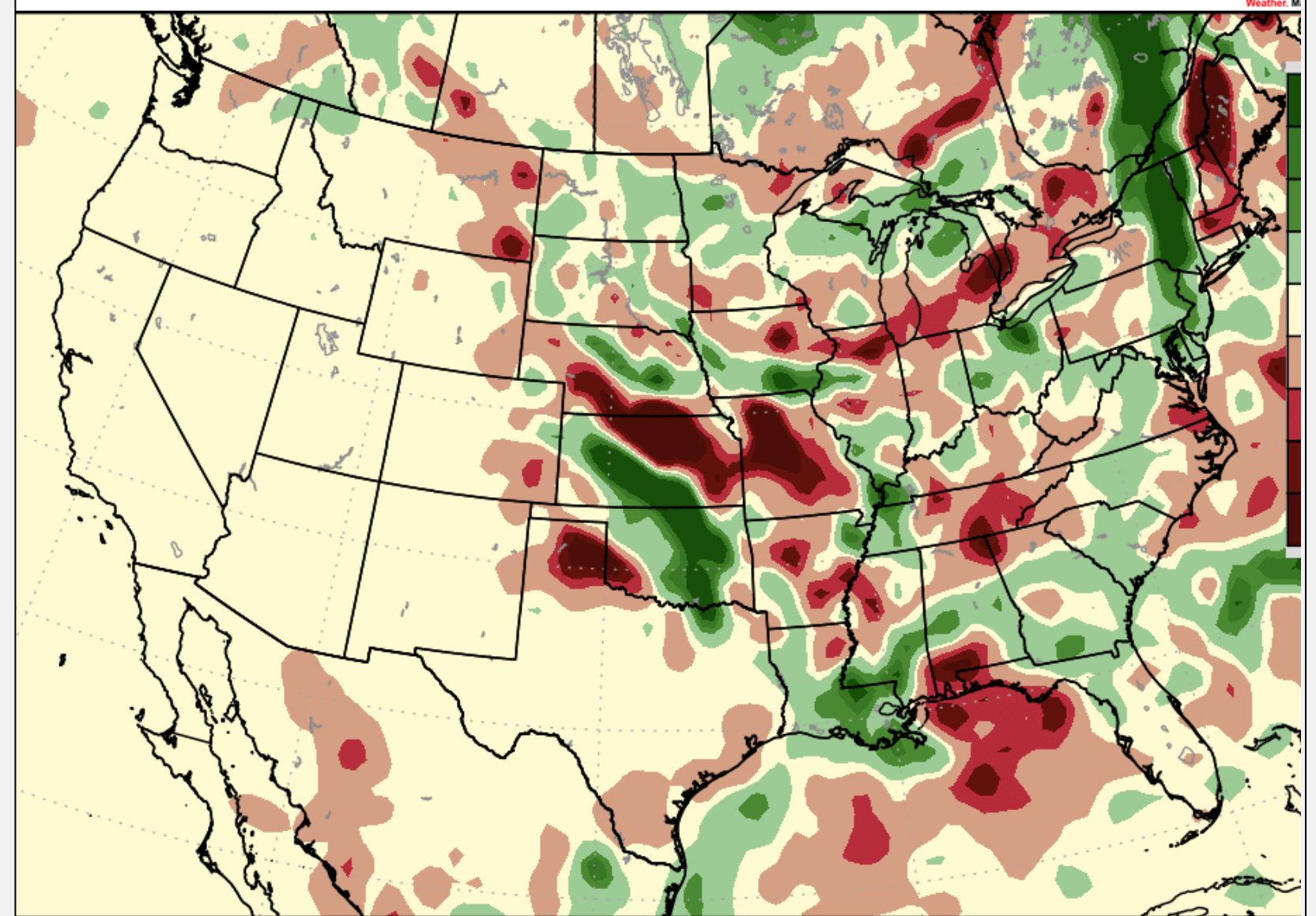
### European Model 7-Day Total Precip

MWF HRES | Accumulated Precipitation [inch]  
Init: Fri 00Z07JUL2023 +[168] HOURS --> Valid Fri 00Z14JUL2023



Service based on European Centre for Medium-range Weather Forecasts [ECMWF] data

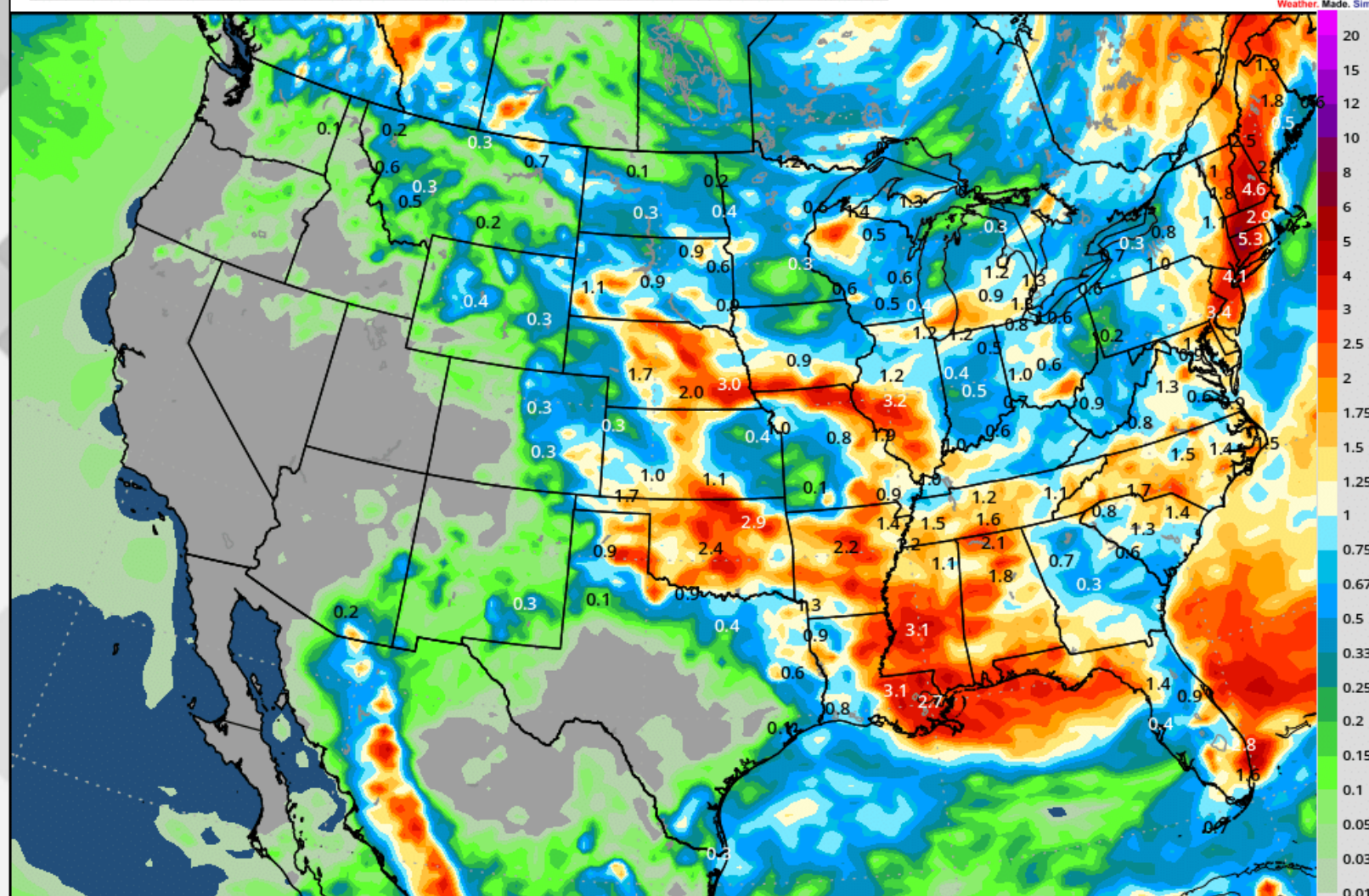
### European Model Precip Change vs. 12 Hr. Ago



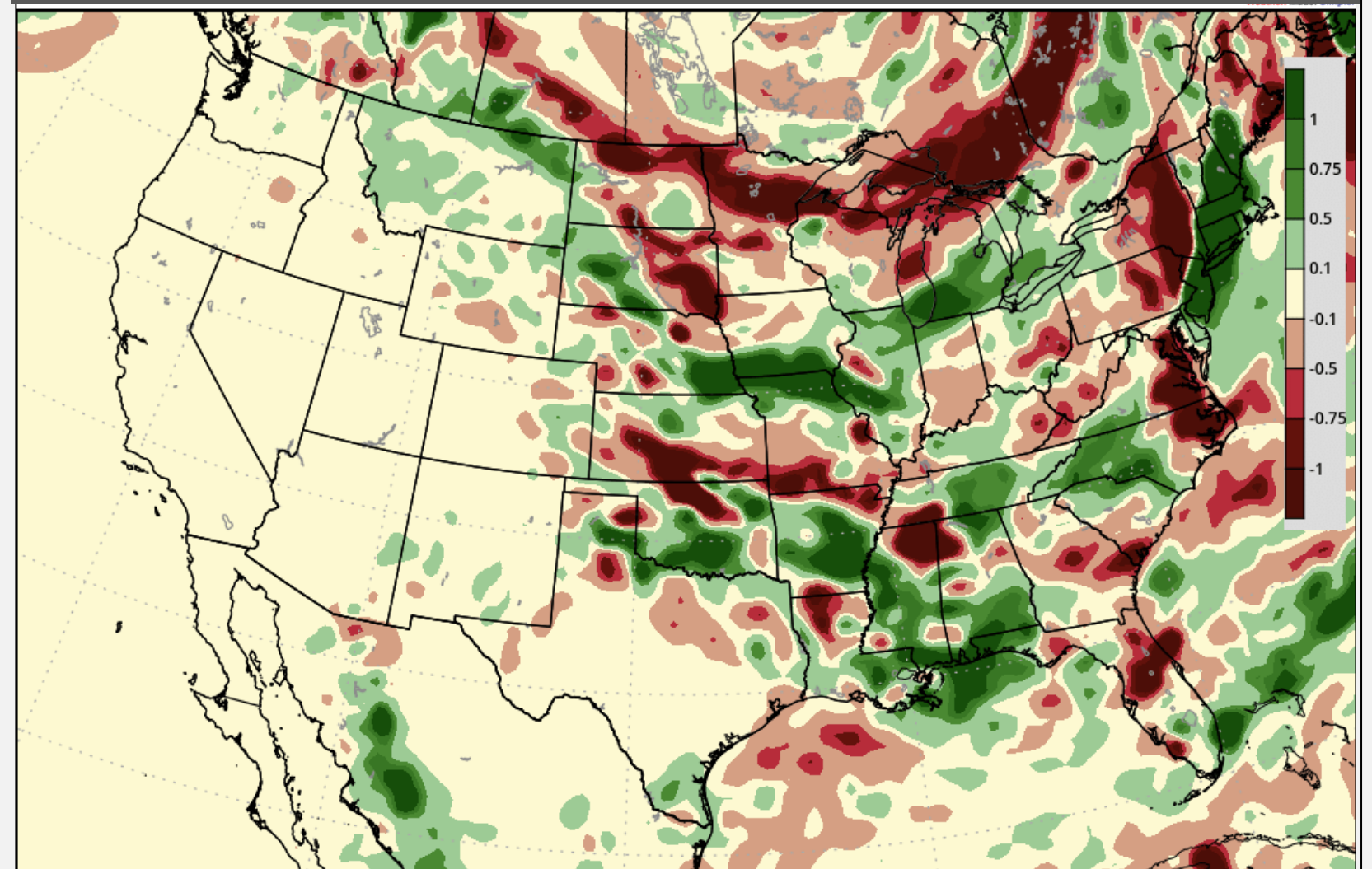
Service based on European Centre for Medium-range Weather Forecasts [ECMWF] data

### American Model 7-Day Total Precip

GFSv16 | Accumulated Precipitation [inch]  
Init: Fri 00Z07JUL2023 +[168] HOURS --> Valid Fri 00Z14JUL2023



### American Model Precip Change vs. 12 Hr. Ago





# BAMWX WEEK 2 SUPERCLUSTER DATA (ALL-ENSEMBLE)

7-Jul-23

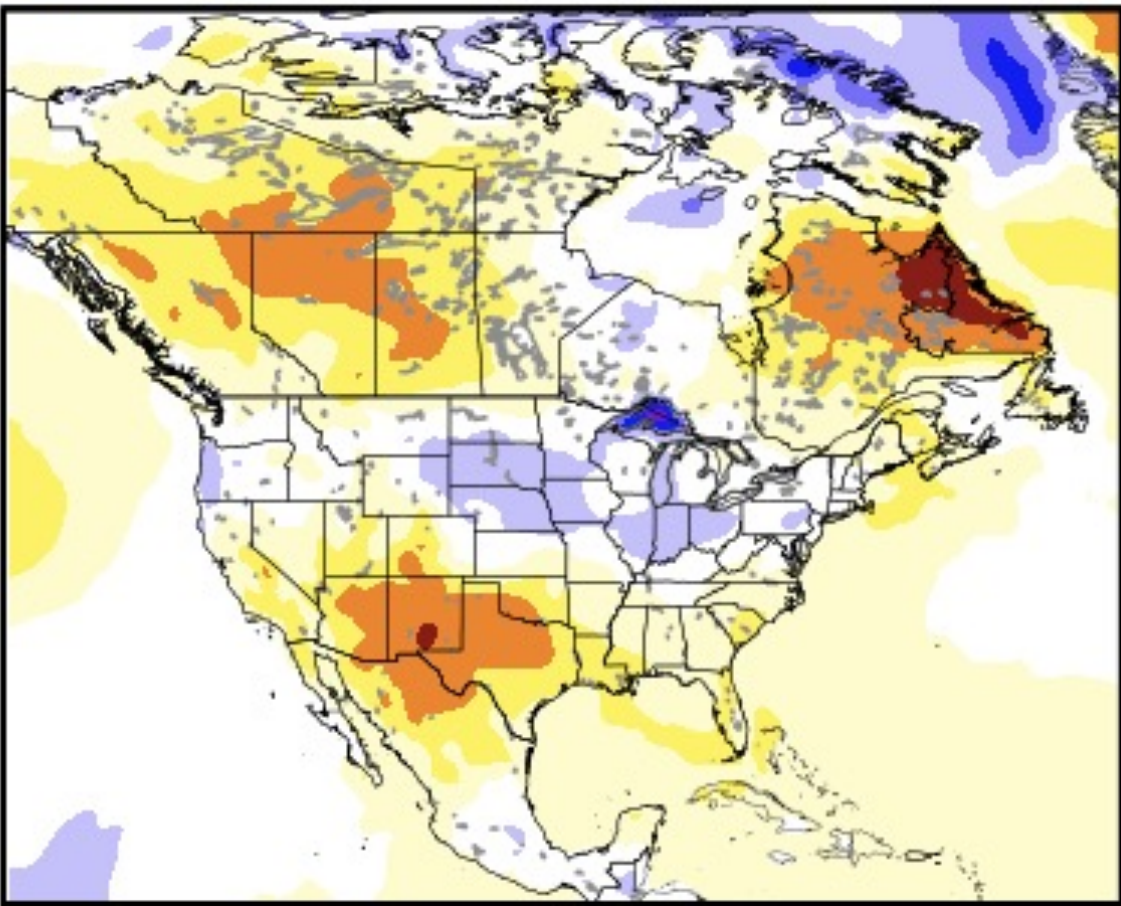
PREPARED BY: BRET WALTS & KIRK HINZ



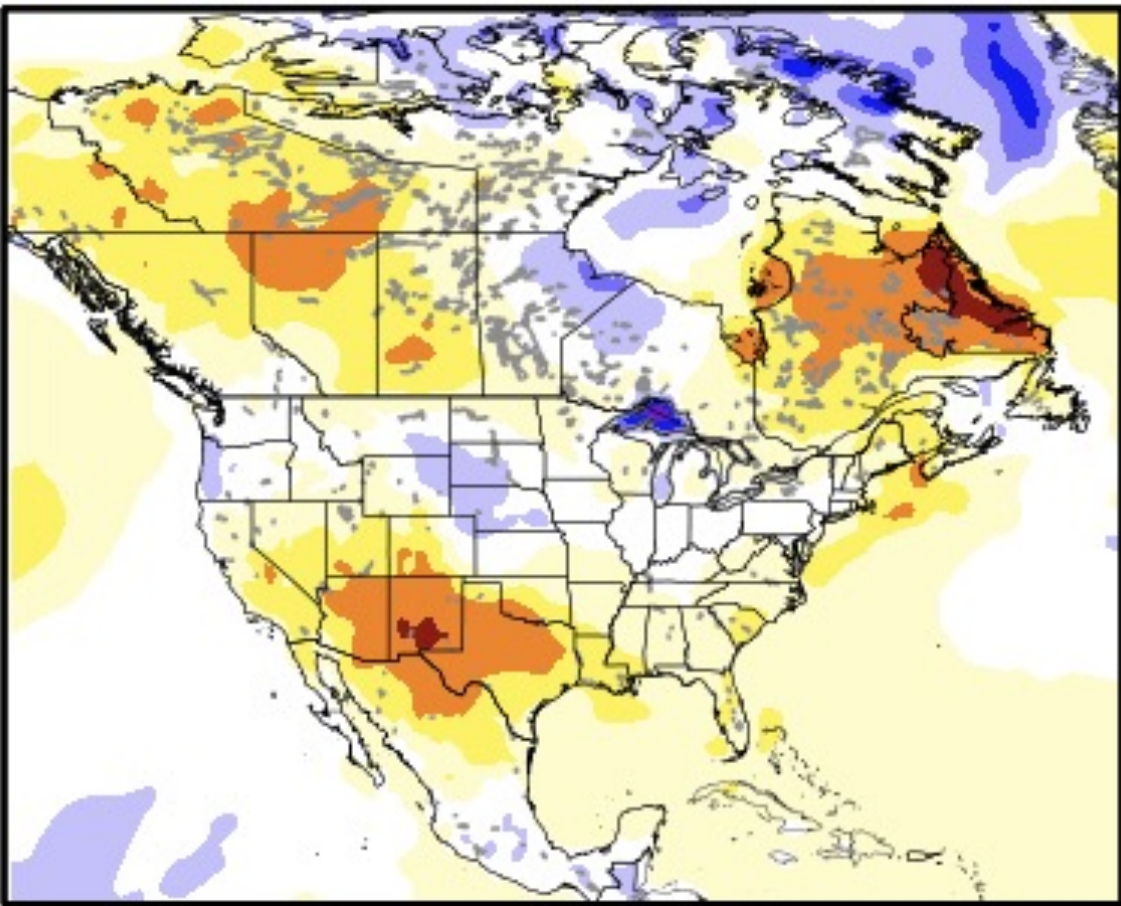
## Week 2: July 14 – 20, 2023

BAM Super Clusters | Init: 00Z07JUL2023 --> Day 8-14 Average Temperature Anomaly [°F]

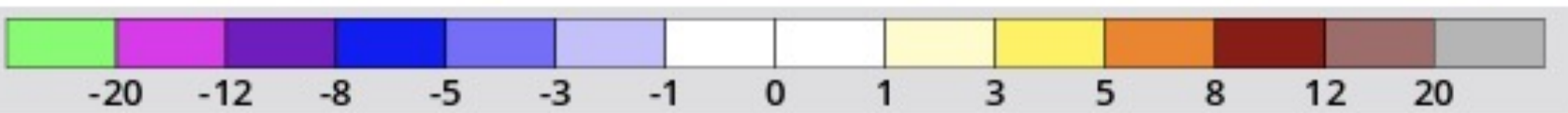
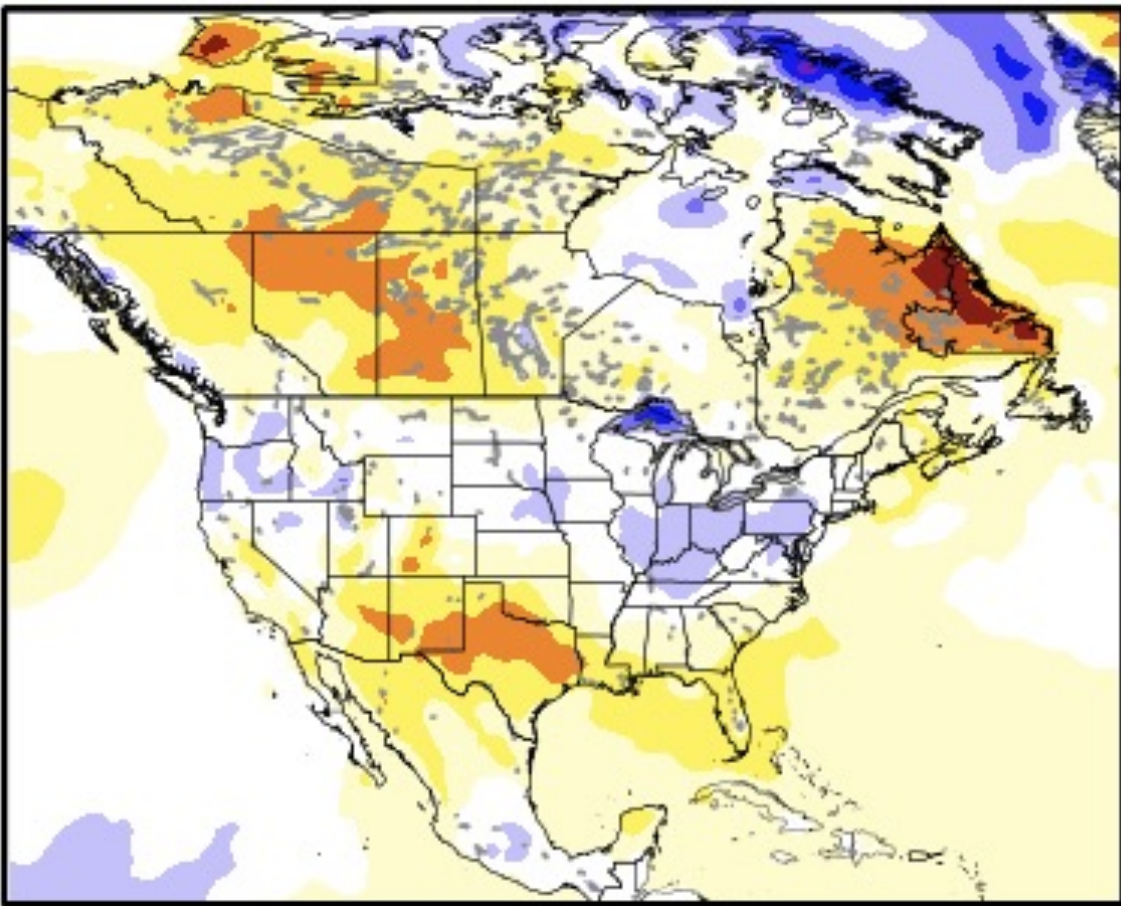
Cluster 1 n=26



Cluster 2 n=47

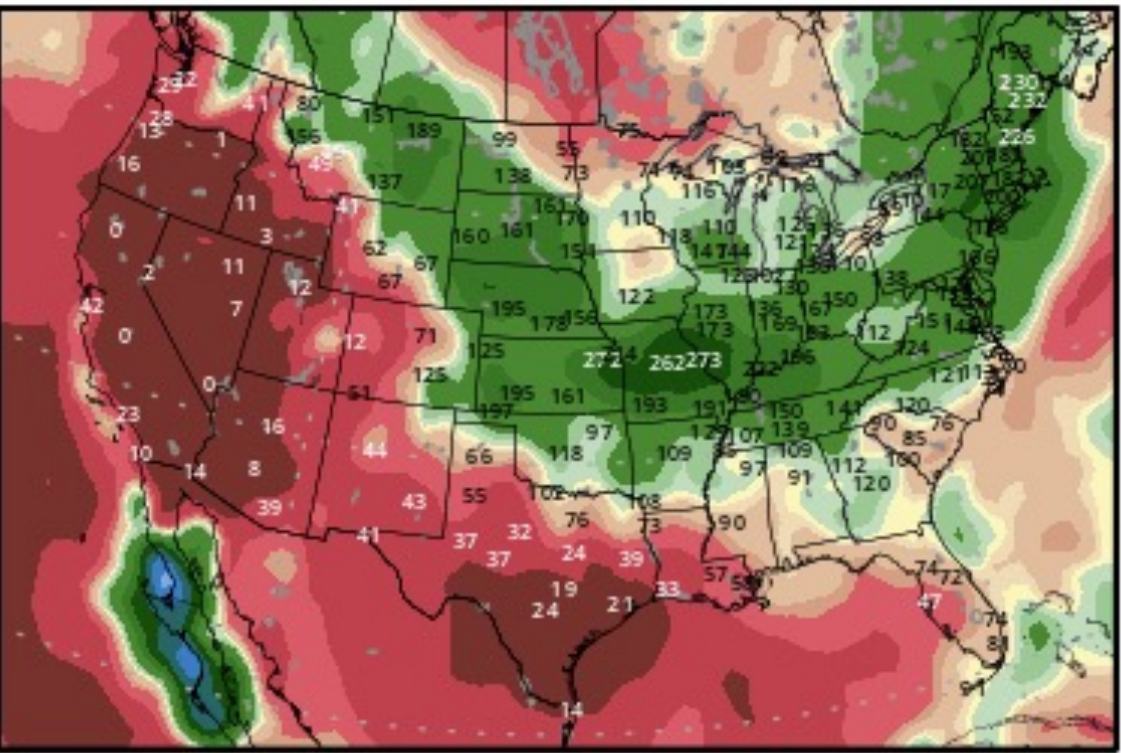


Cluster 3 n=30

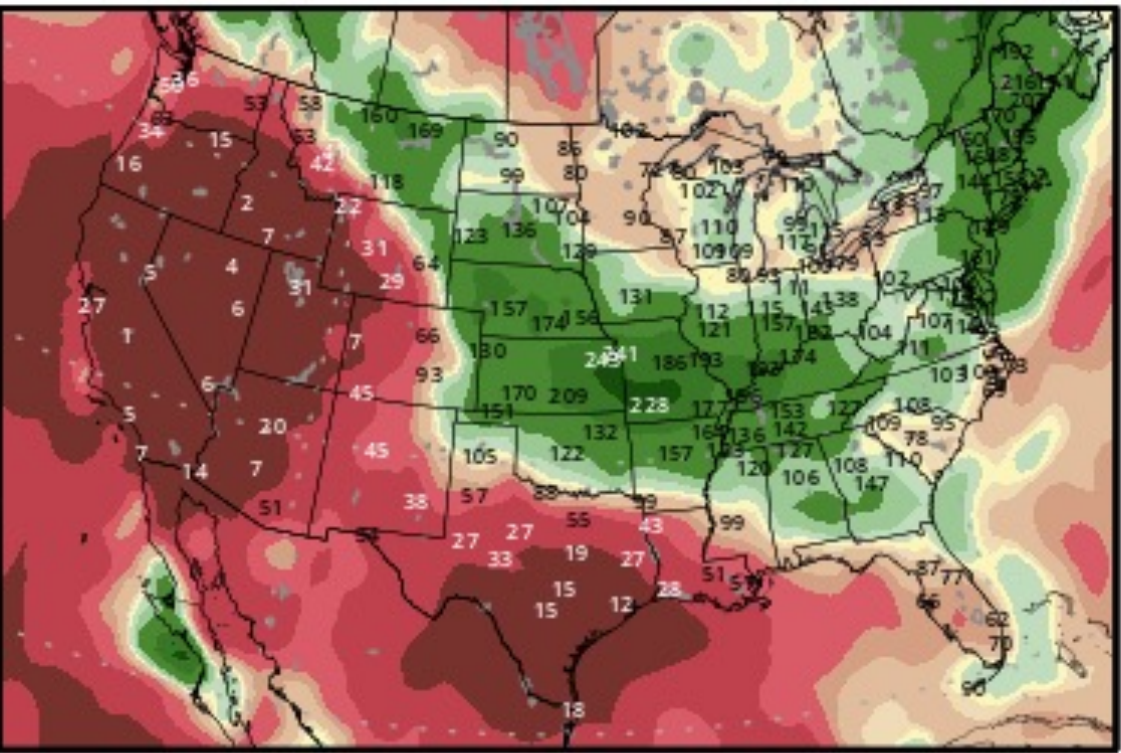


BAM Super Clusters | Init: 00Z07JUL2023 --> Day 8-14 Clusters | 8-14 Day Total QPF Anomaly [% of Normal]

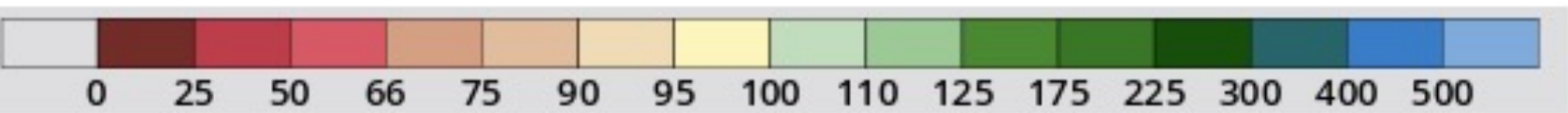
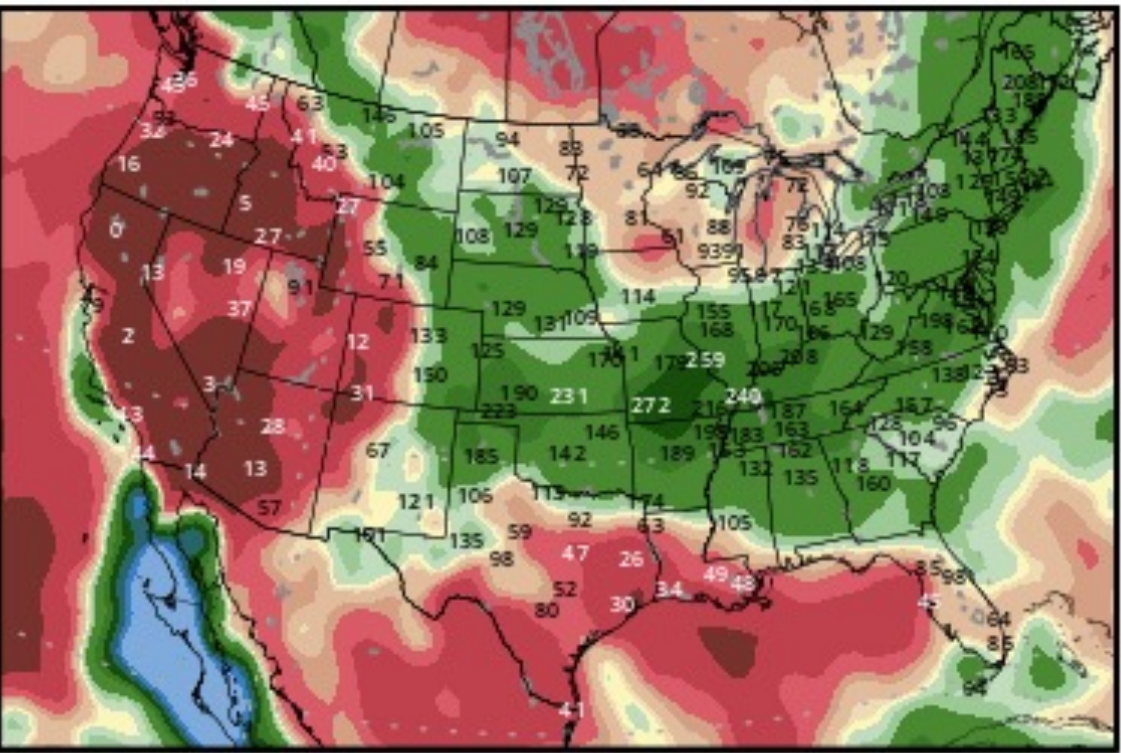
Cluster 1 n=26



Cluster 2 n=47



Cluster 3 n=30





# BAMWX AM PRECIP DATA



7-Jul-23

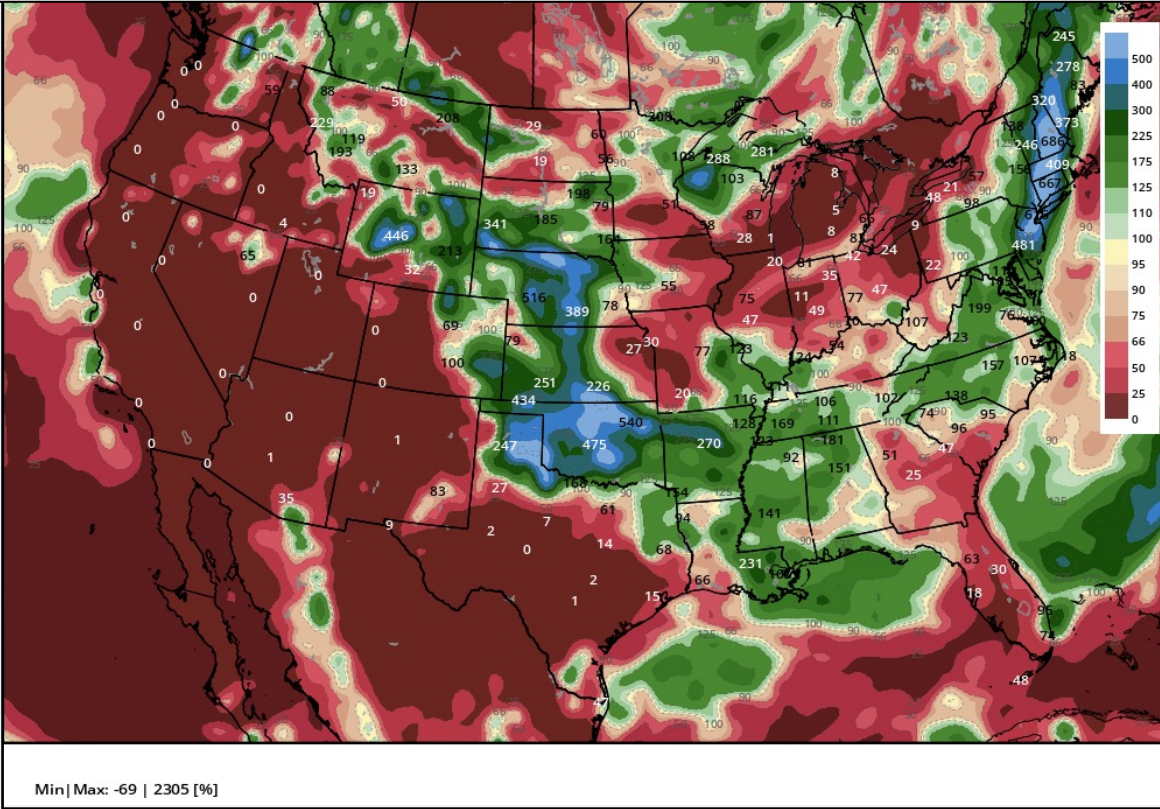
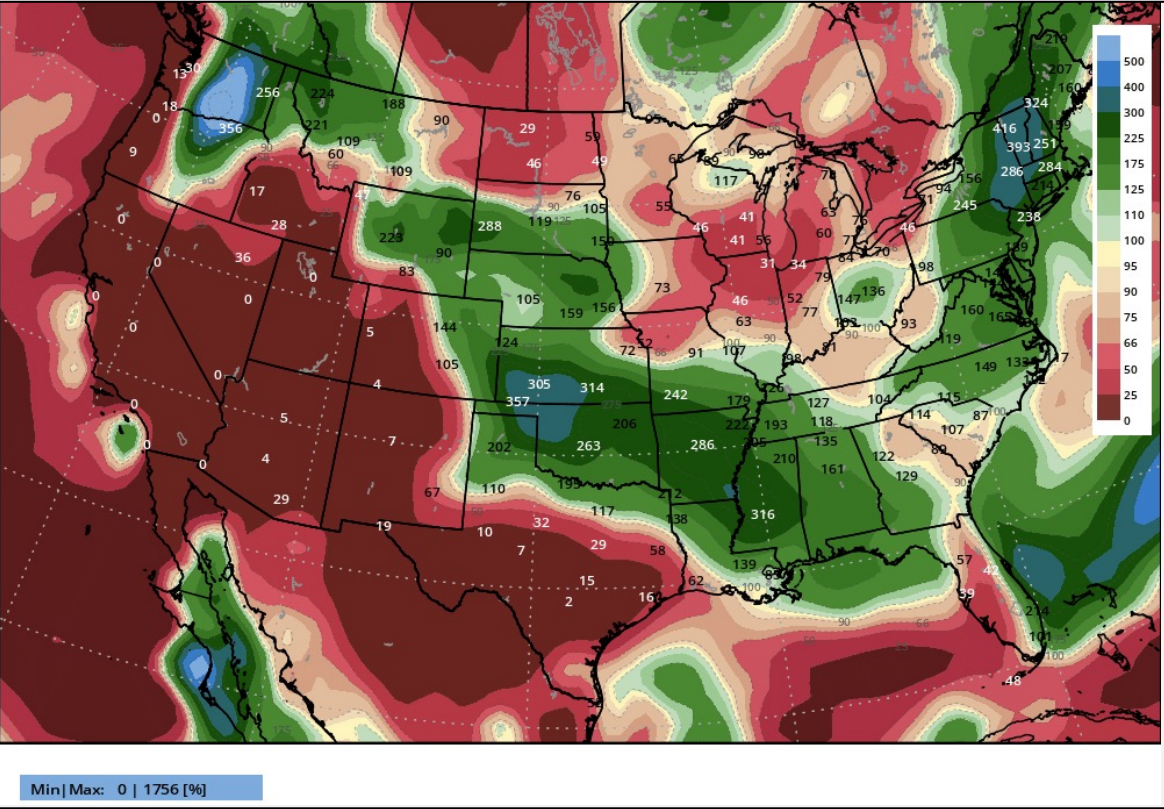
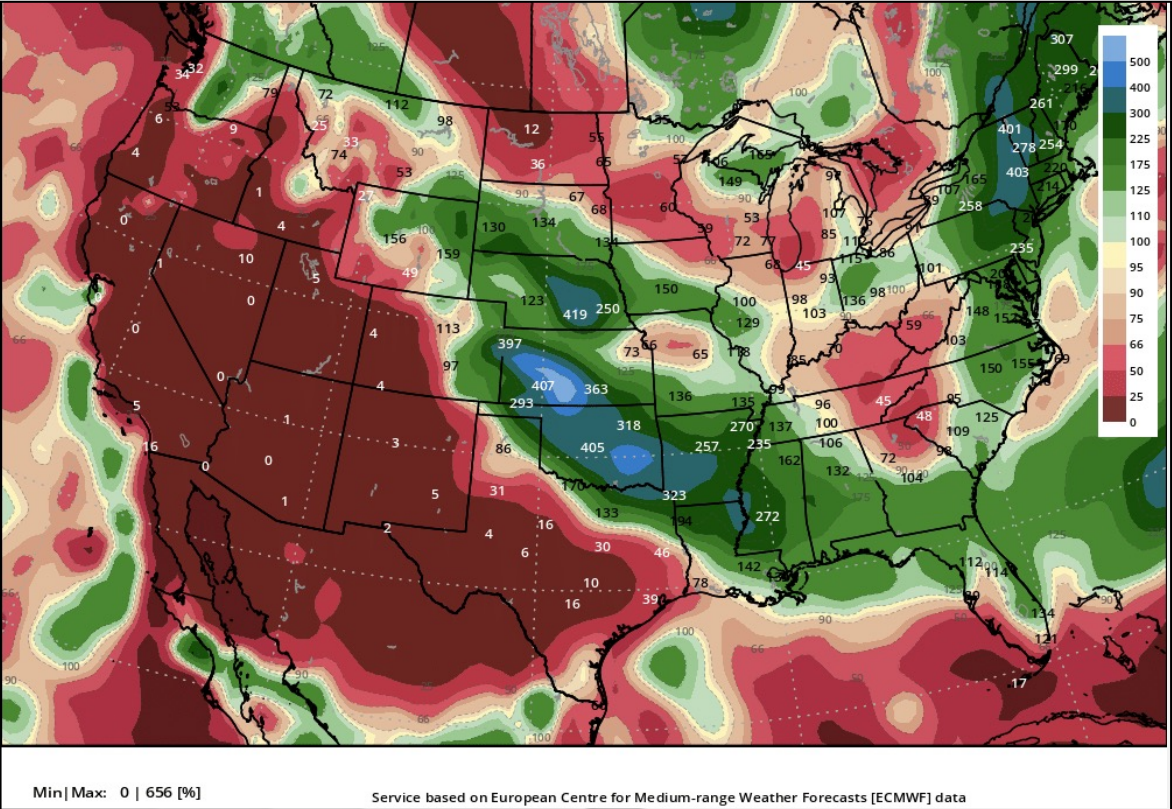
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EPS

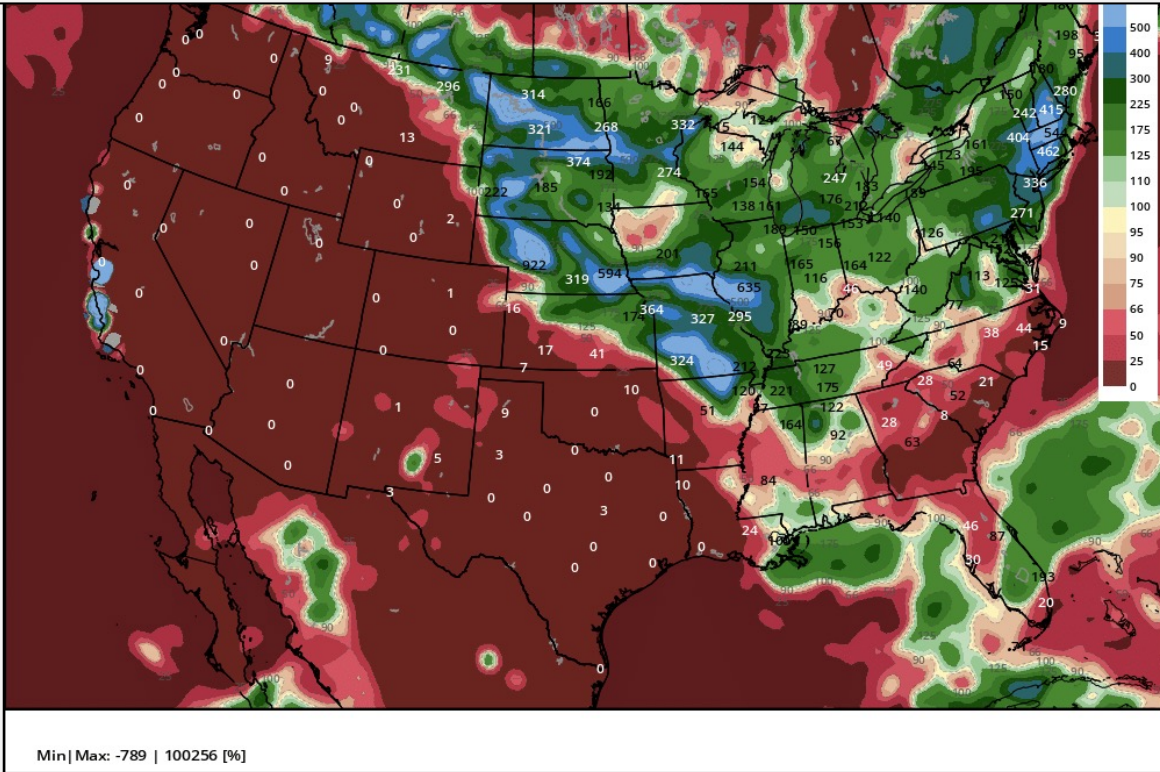
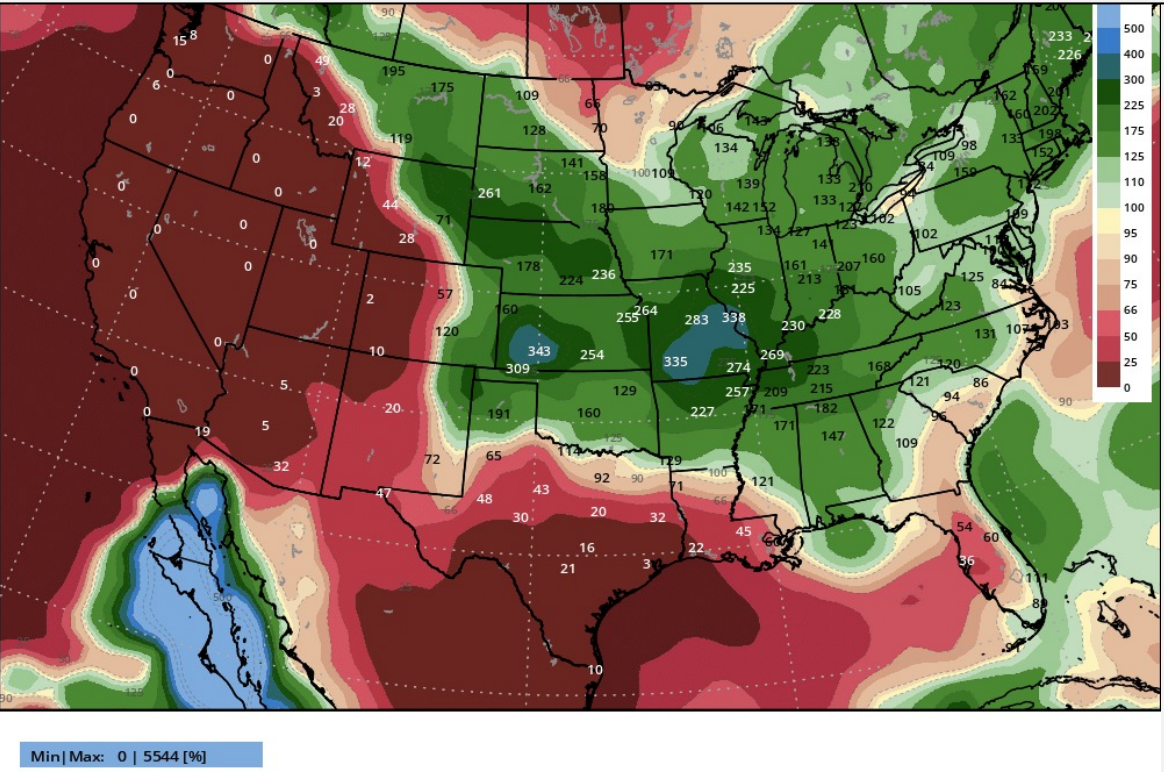
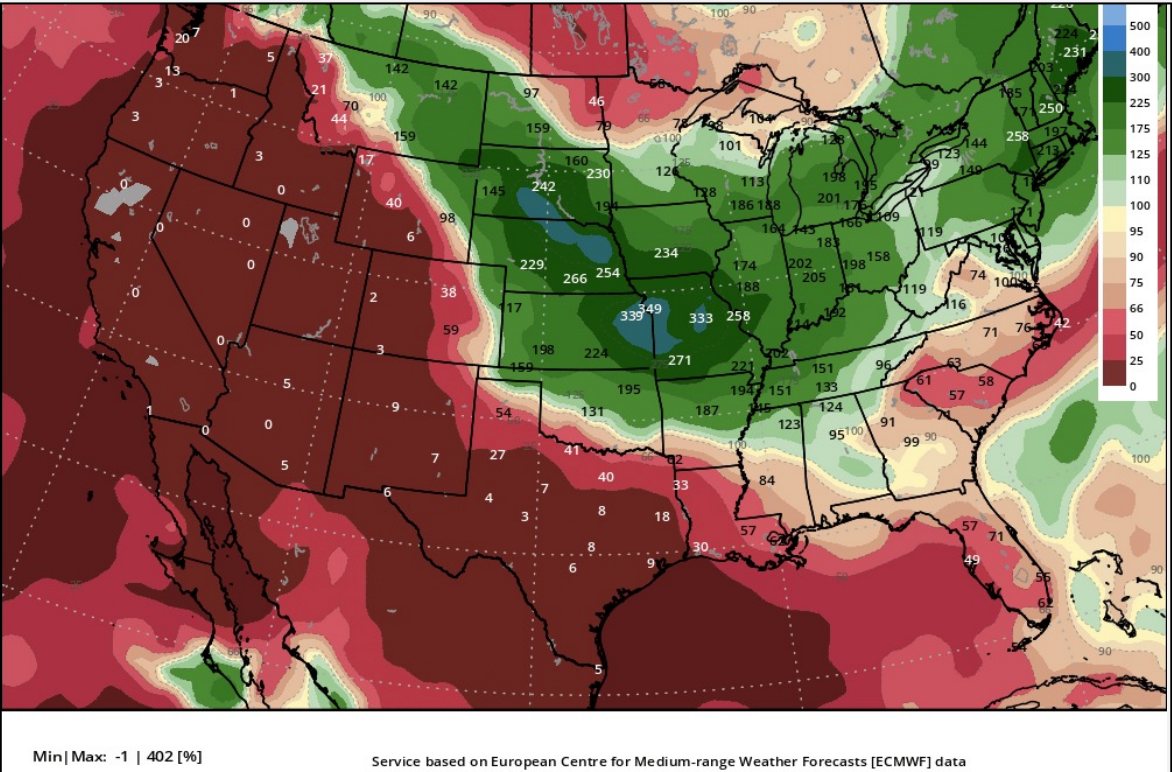
GEFS

GFS

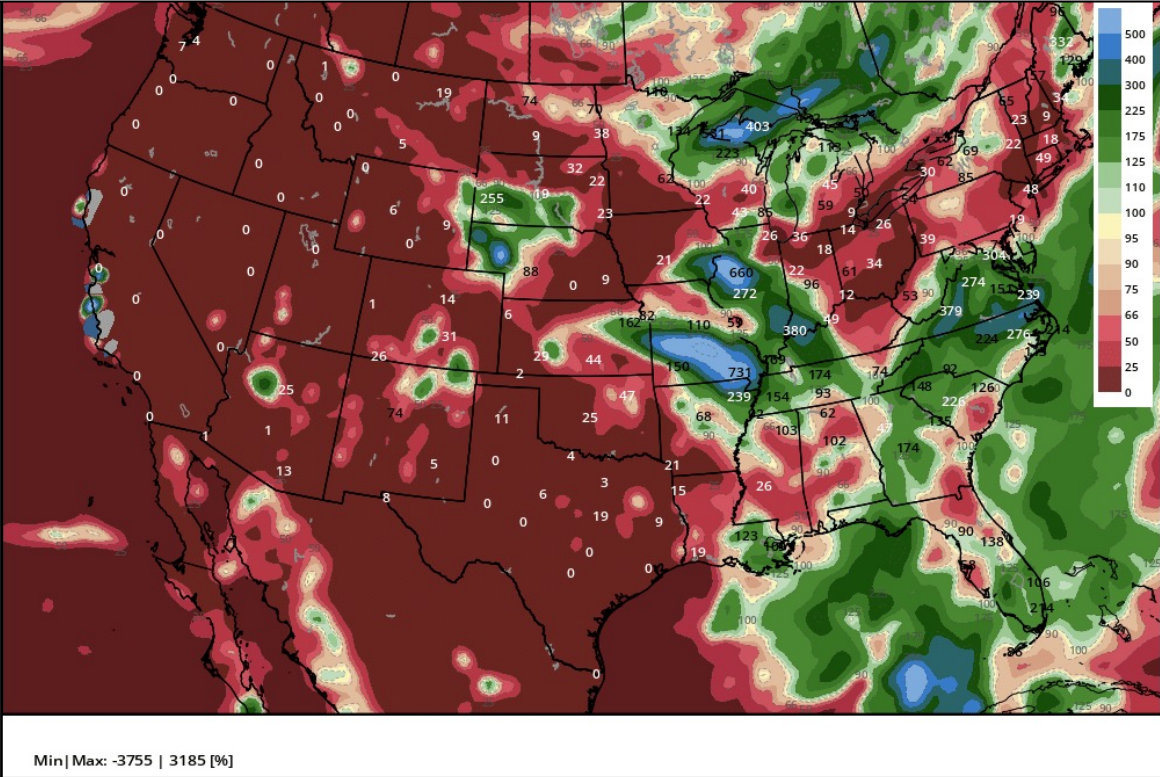
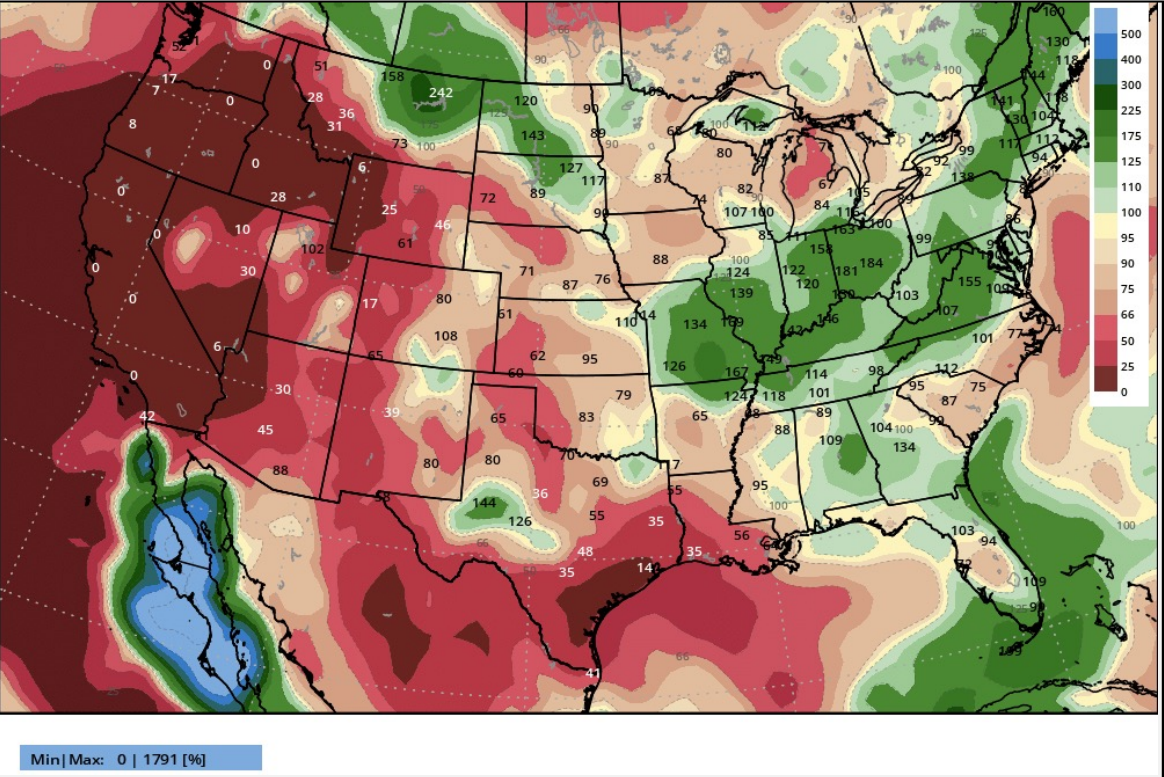
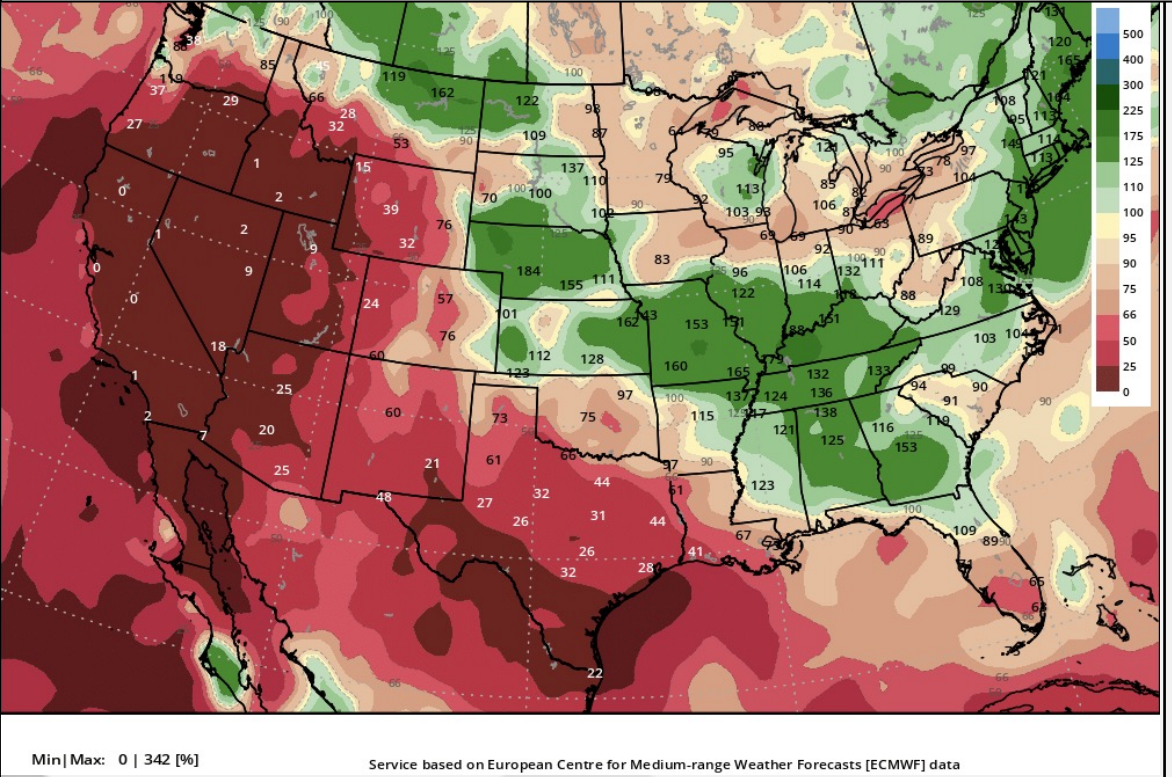
## 1 – 5 DAY PERCENT OF NORMAL PRECIP



## 6 – 10 DAY PERCENT OF NORMAL PRECIP



## 11 – 15 DAY PERCENT OF NORMAL PRECIP





# BAMWX AM PRECIP DATA CHANGES

7-Jul-23

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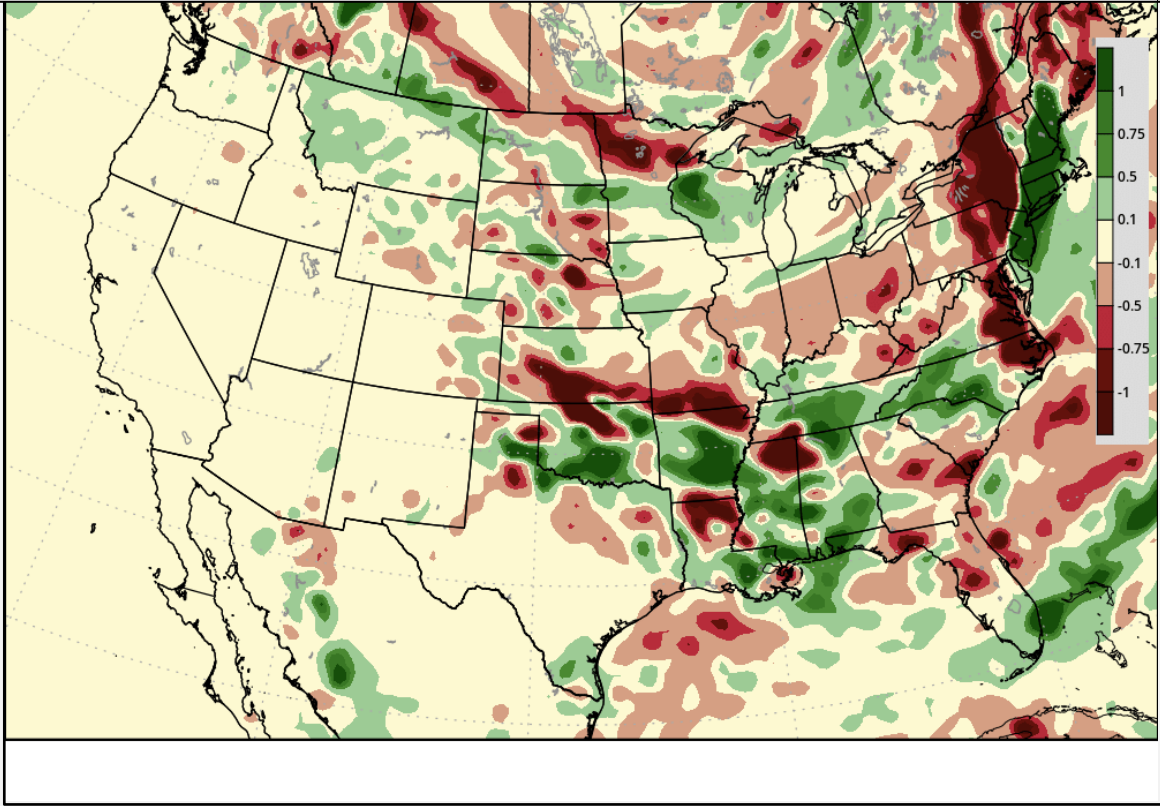
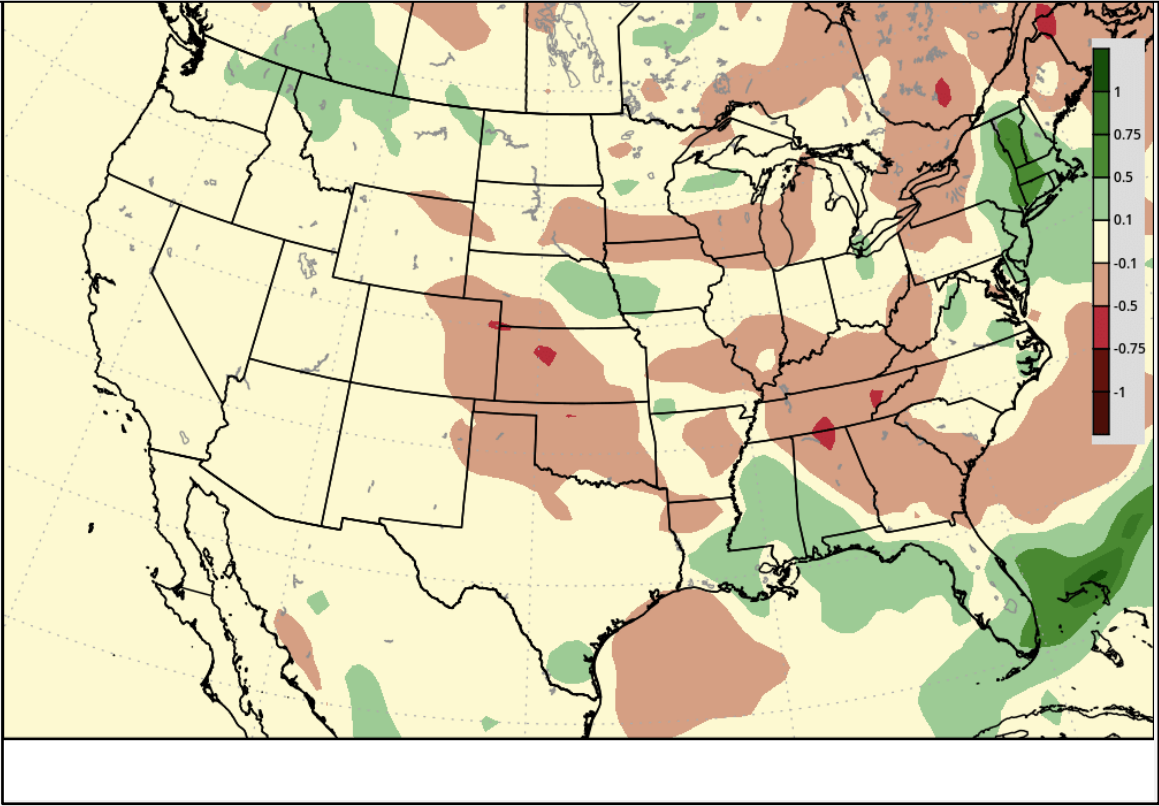
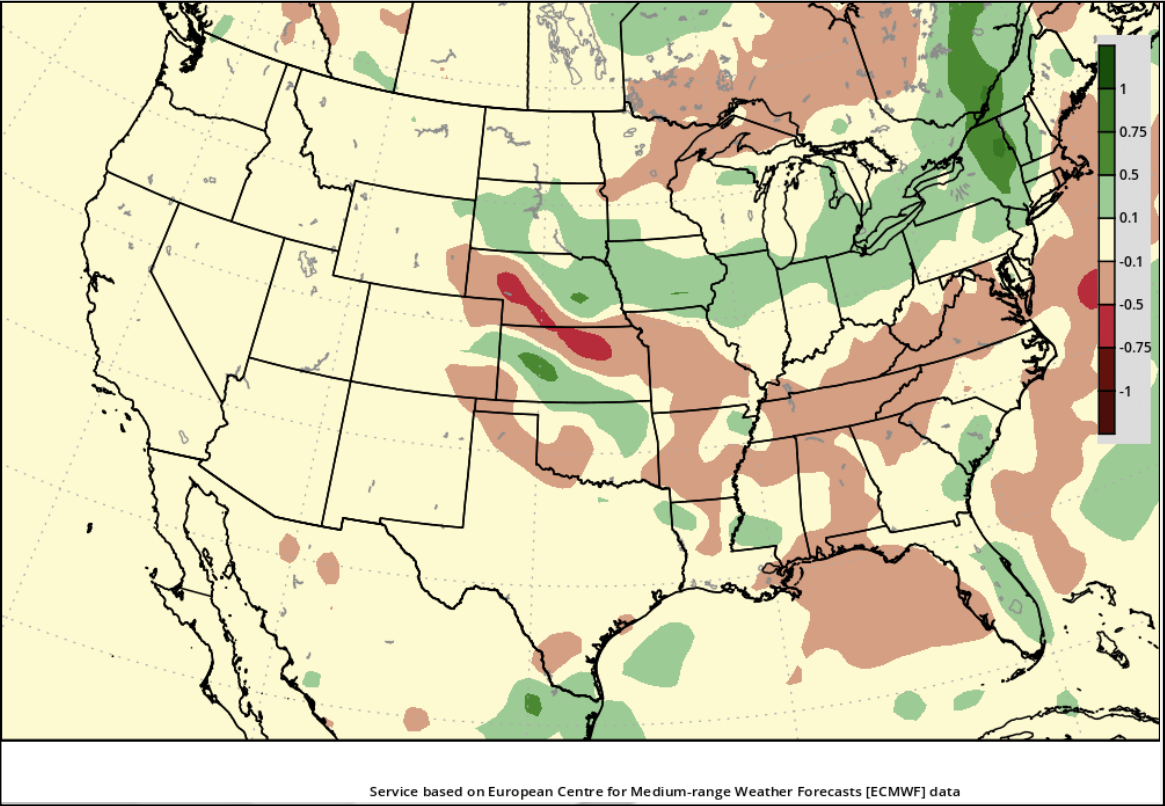


EPS

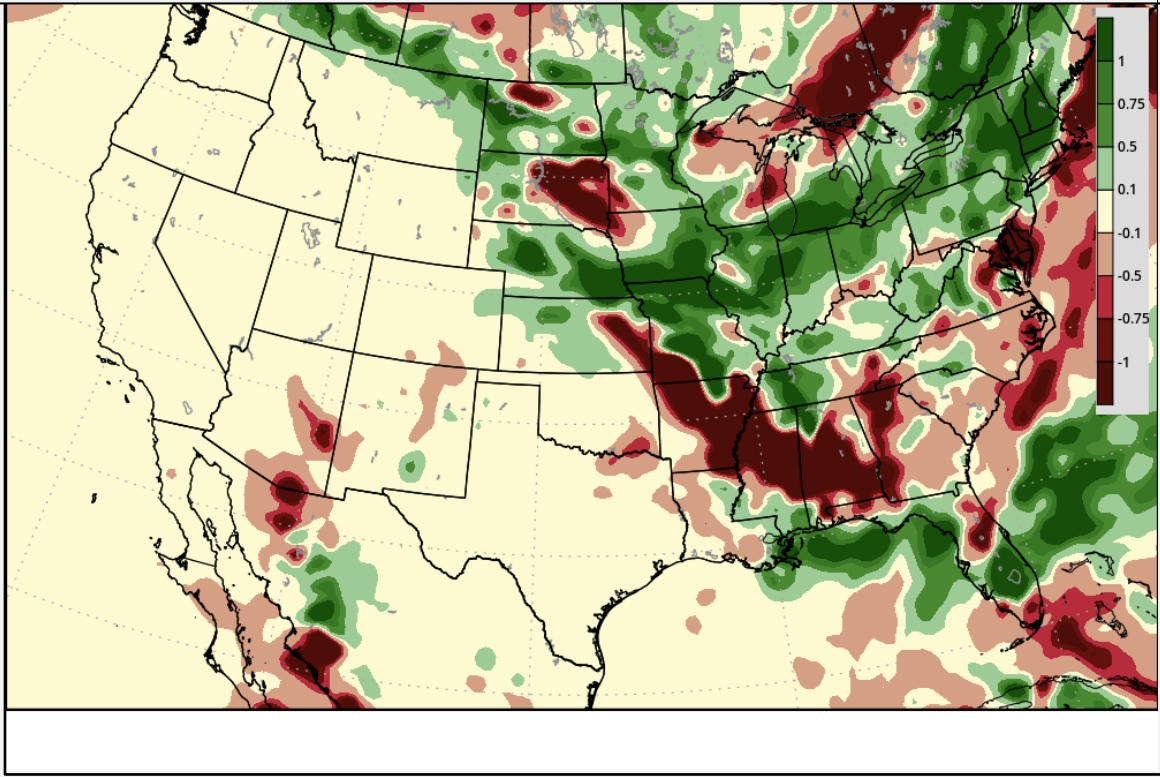
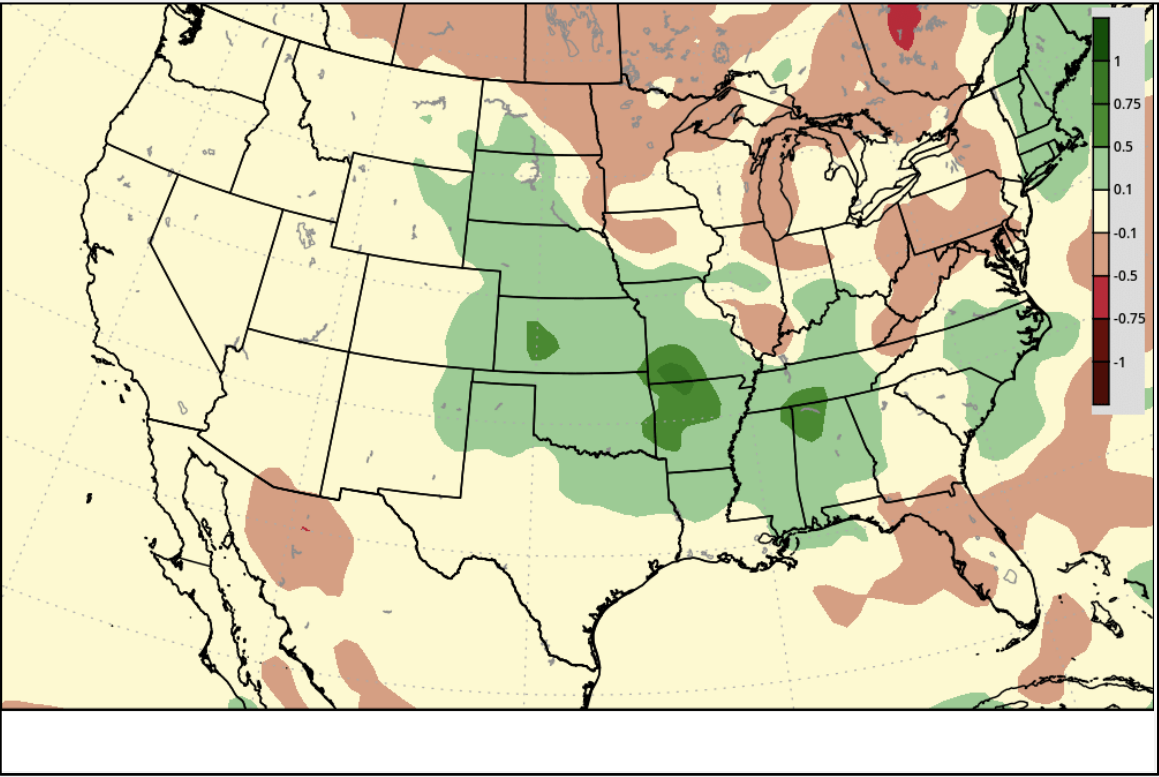
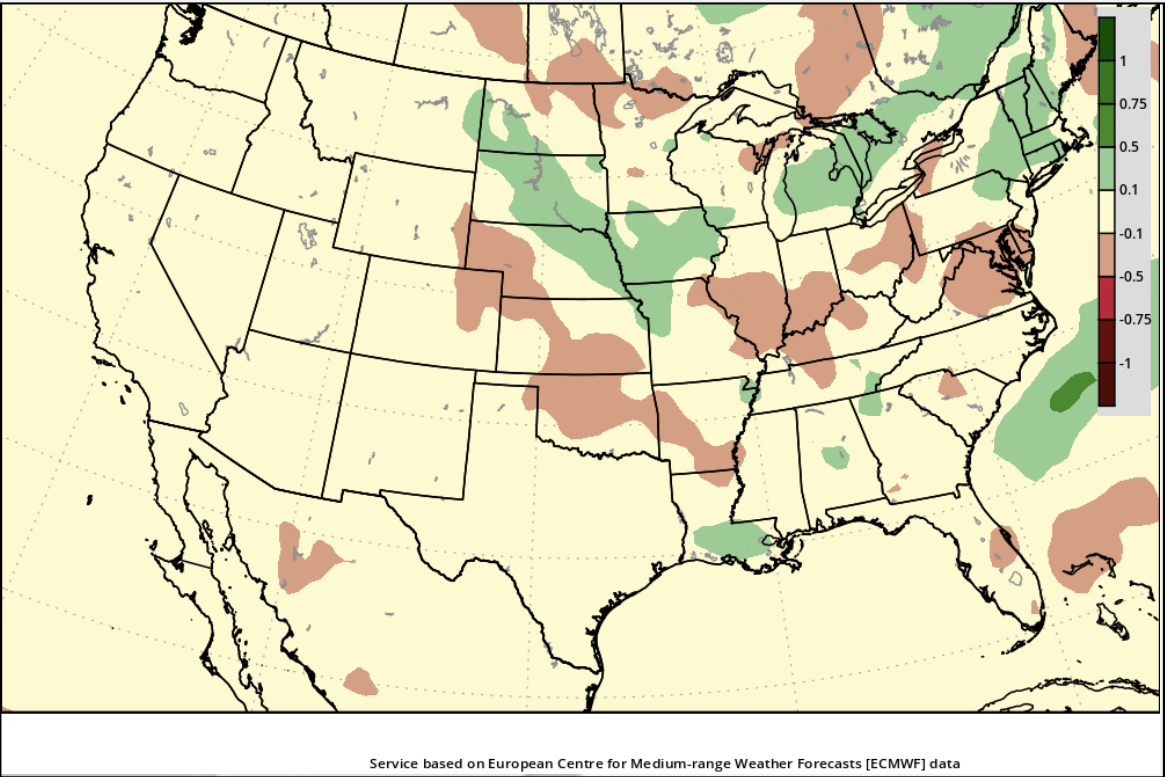
GEFS

GFS

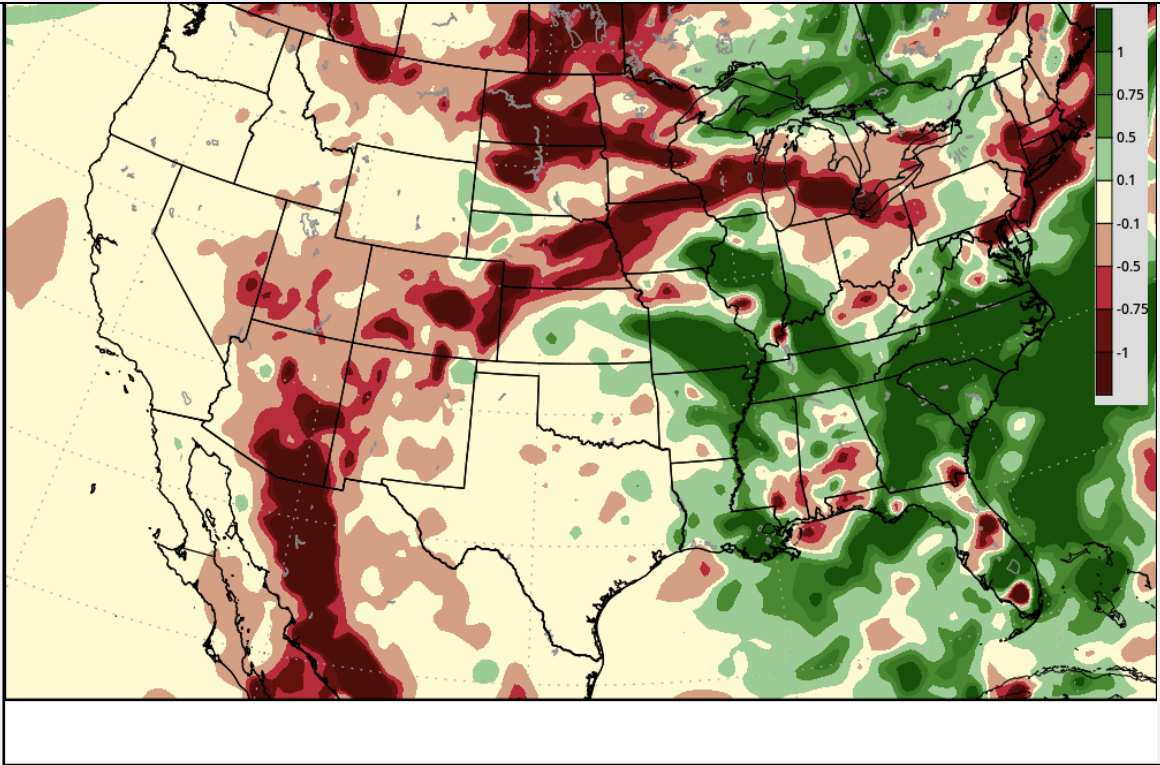
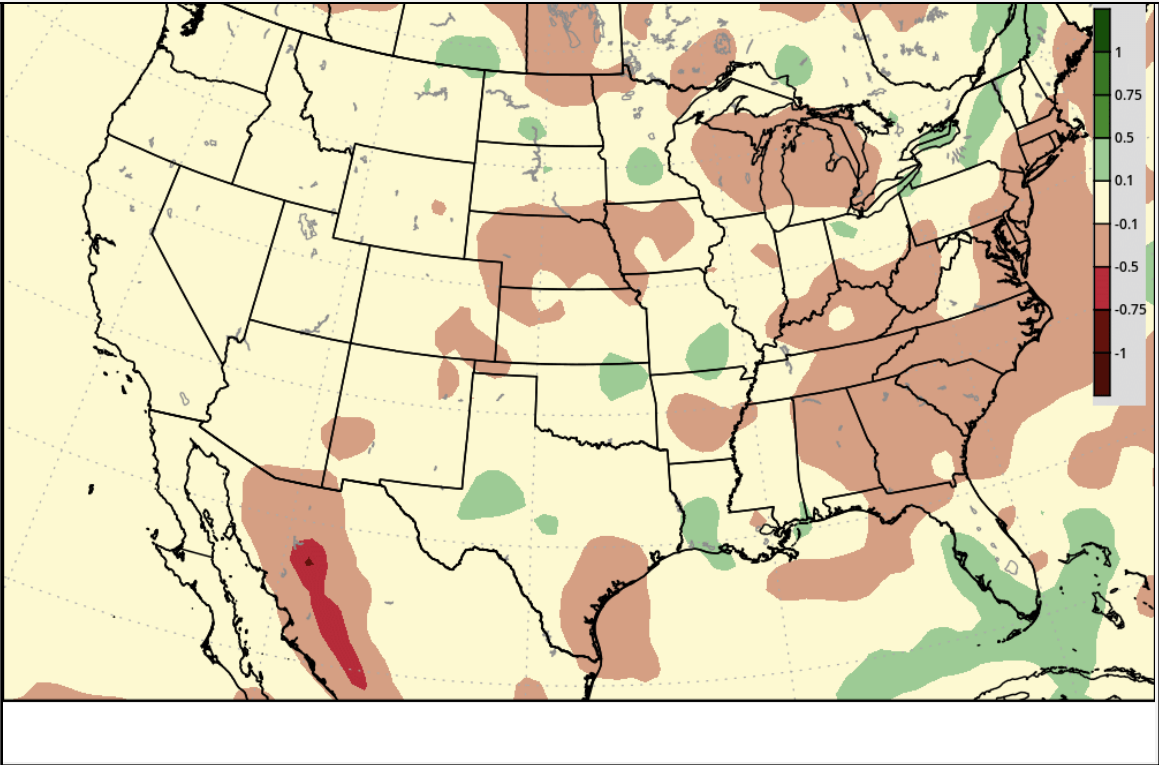
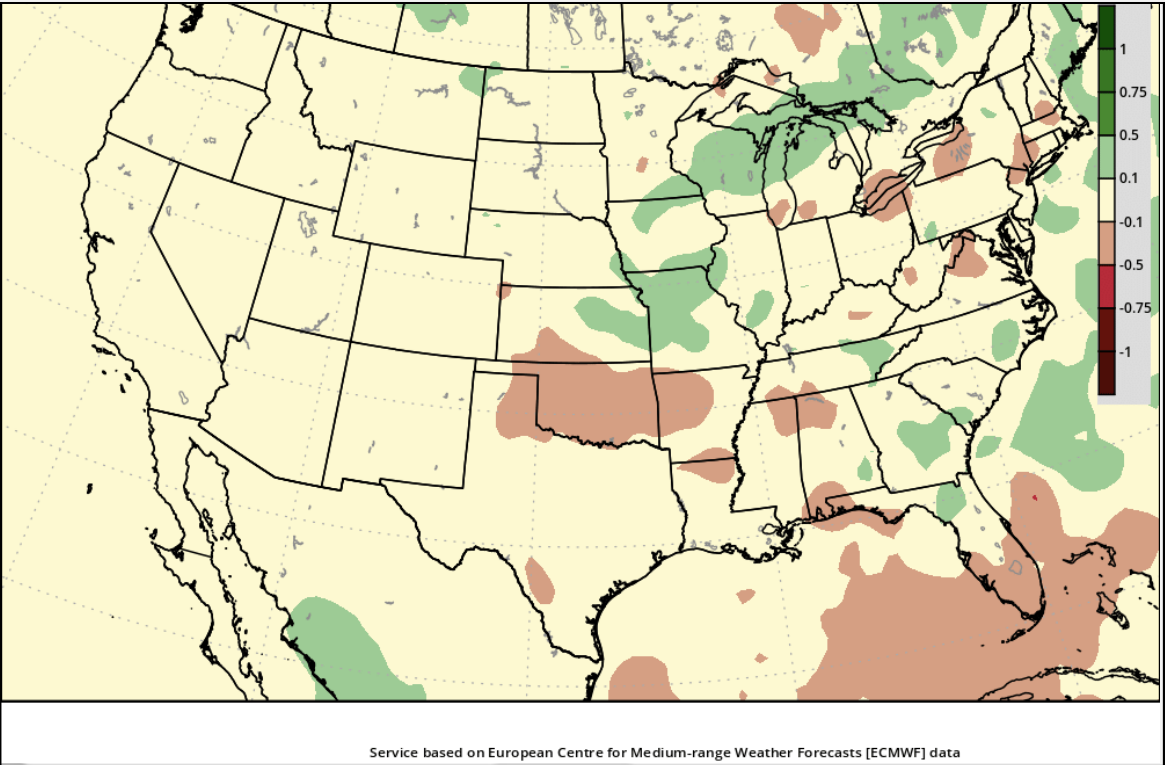
1 – 5 DAY CHANGE IN PRECIP TOTALS VS. 12 HR. AGO



6 – 10 DAY CHANGE IN PRECIP TOTALS VS. 12 HR. AGO



11 – 15 DAY CHANGE IN PRECIP TOTALS VS. 12 HR. AGO





# BAMWX AM TEMP DATA



7-Jul-23

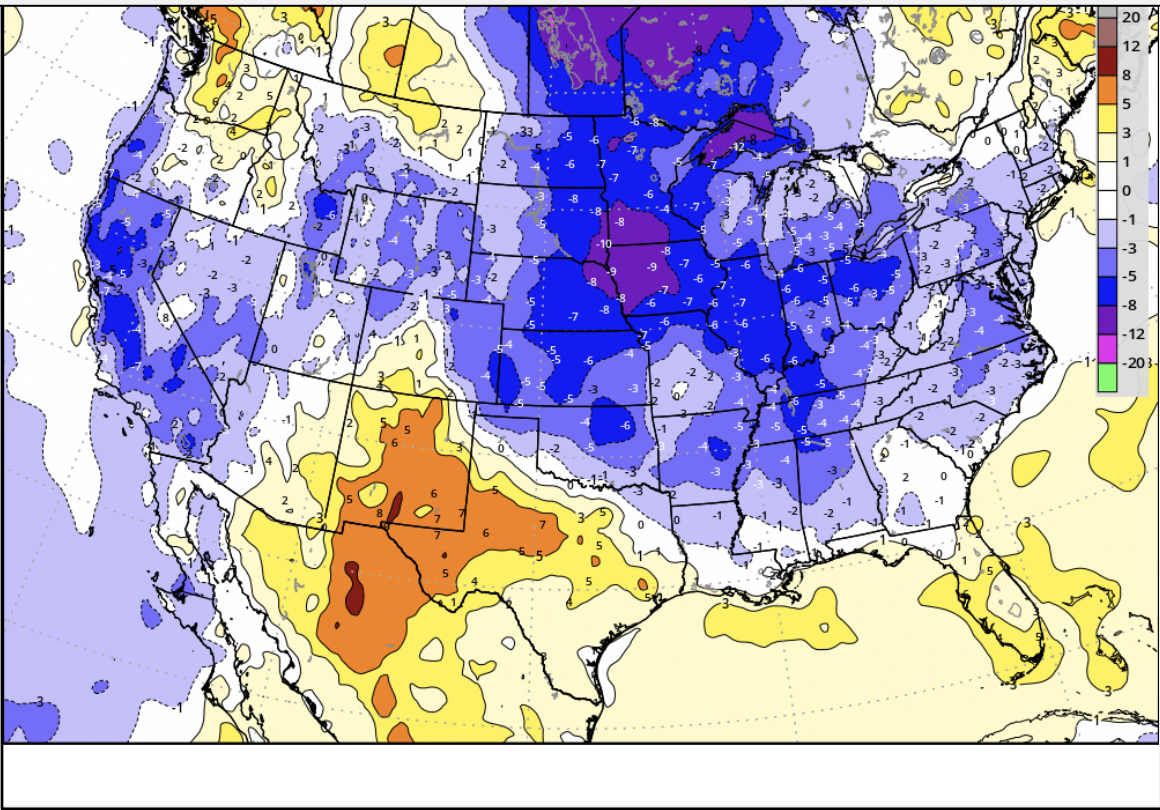
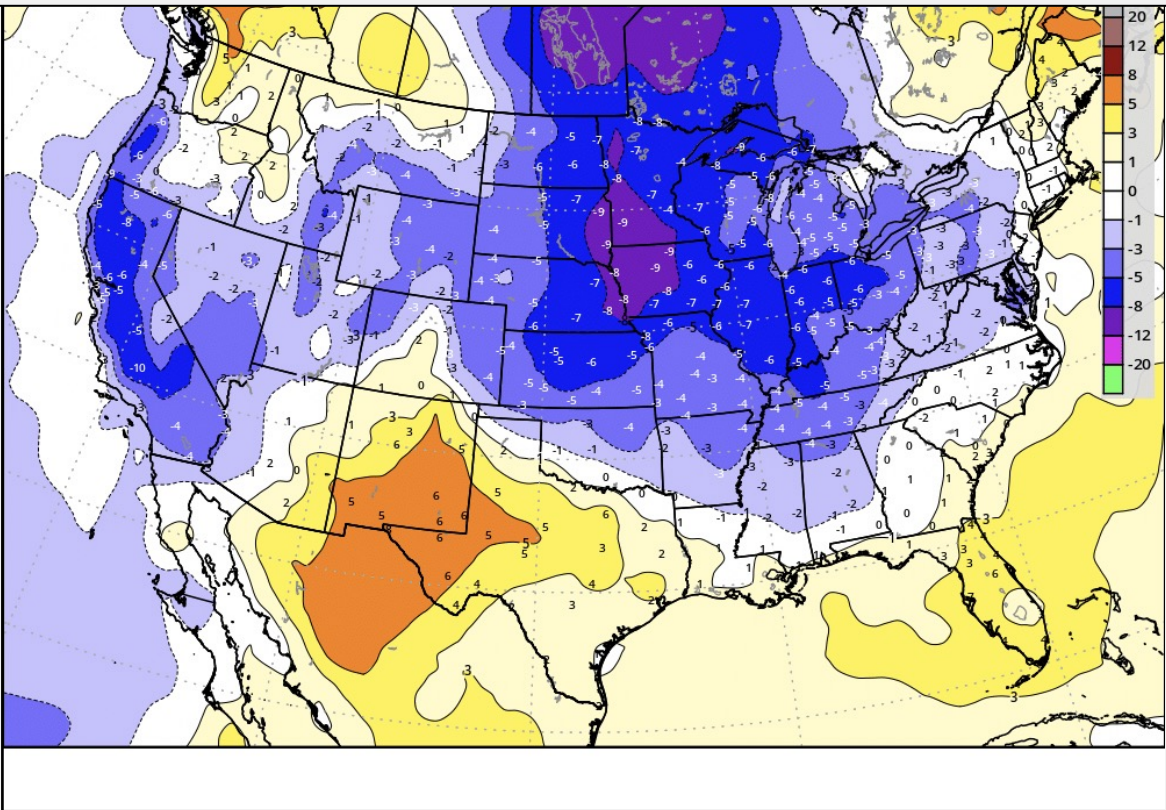
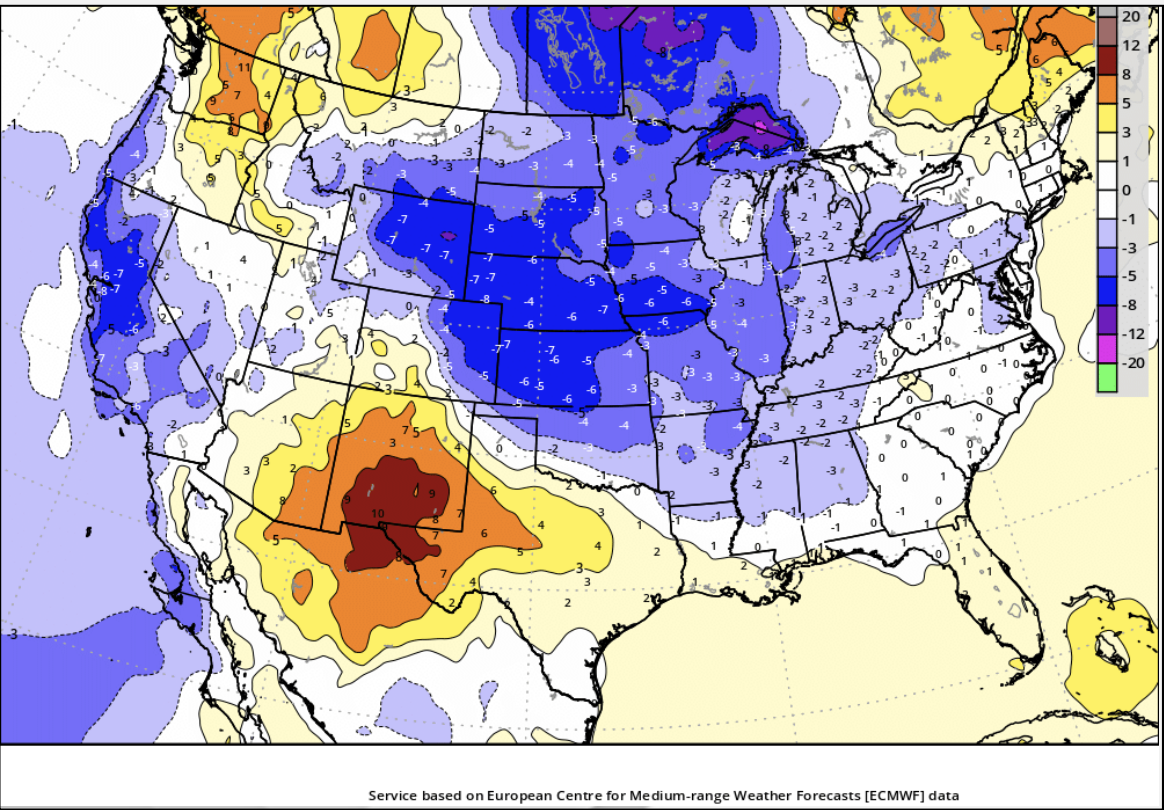
PREPARED BY: BRET WALTS & KIRK HINZ

EPS

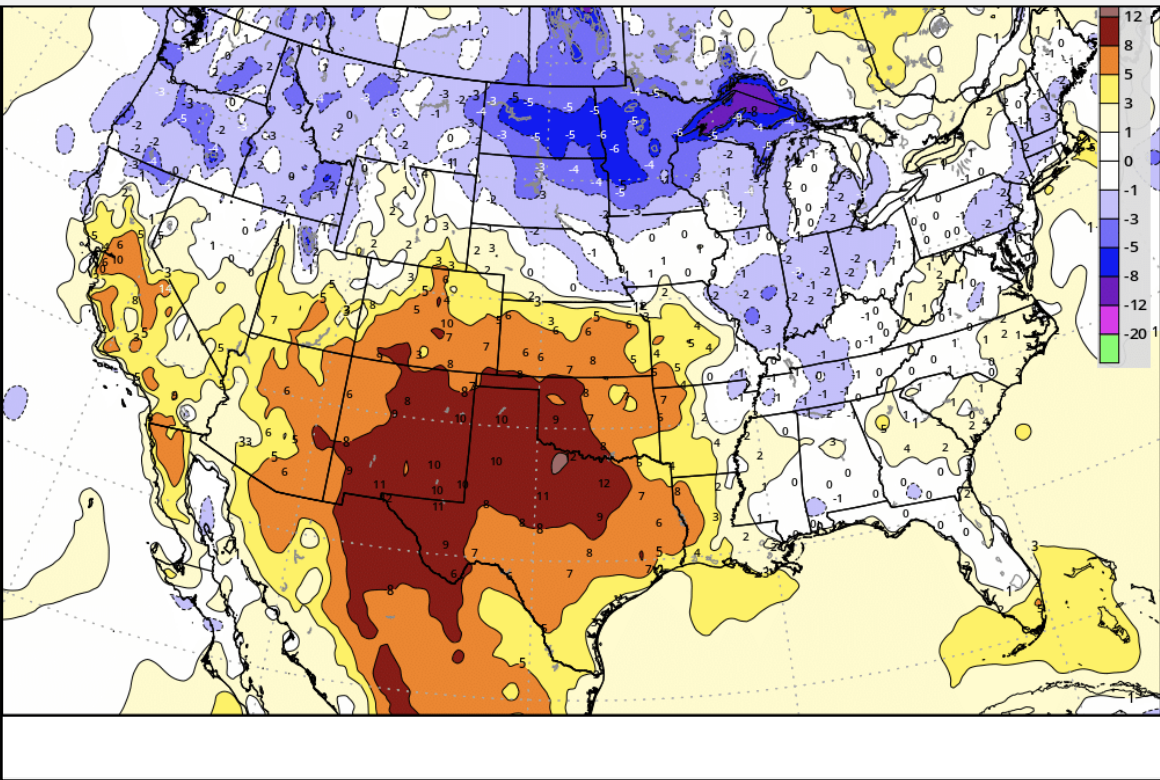
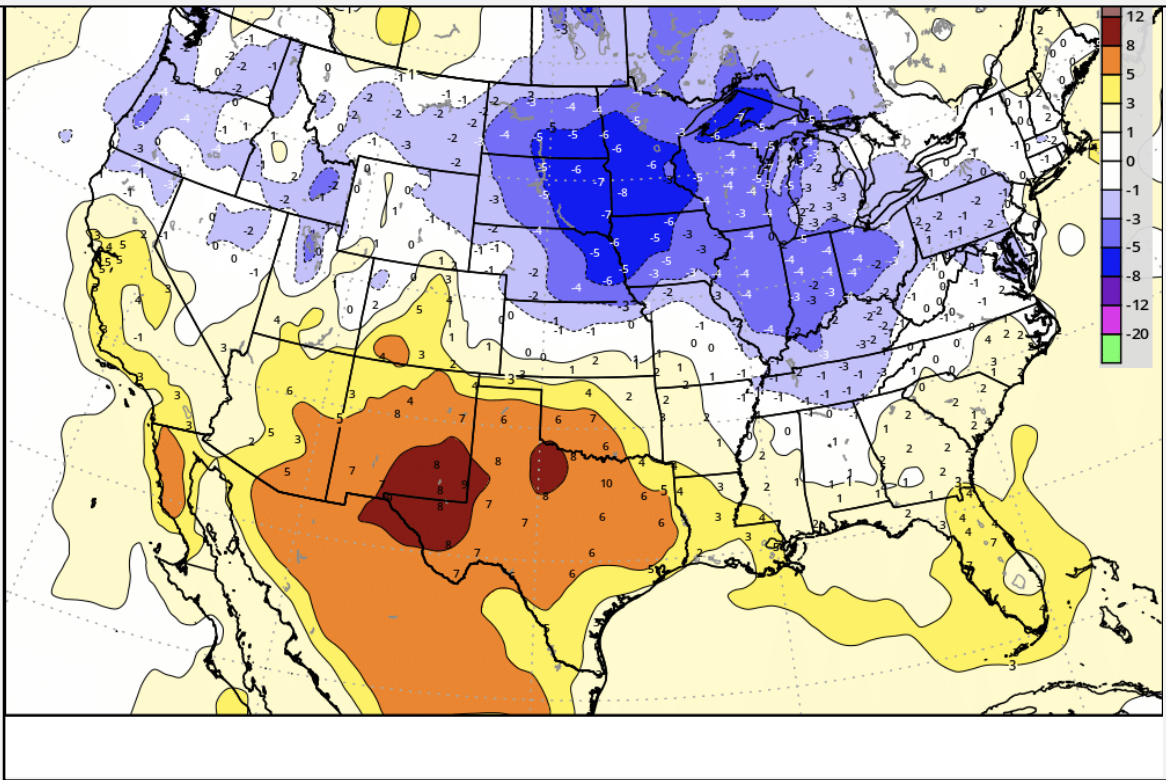
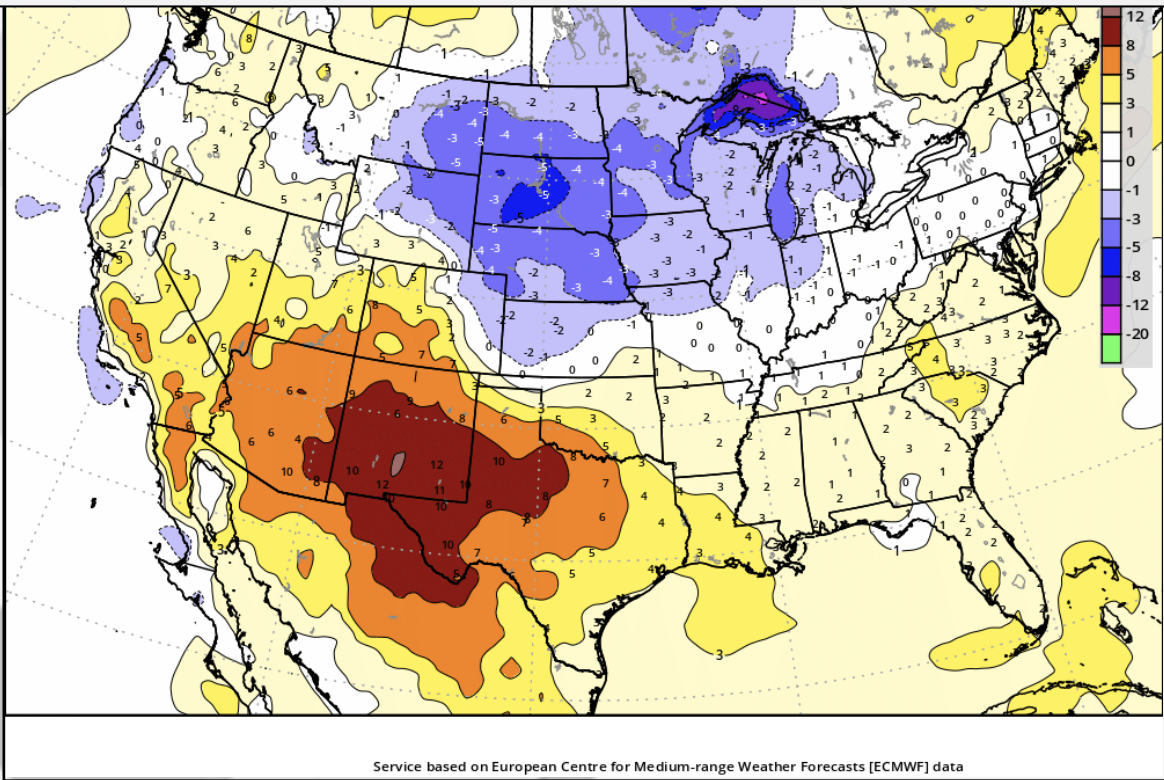
GEFS

GFS

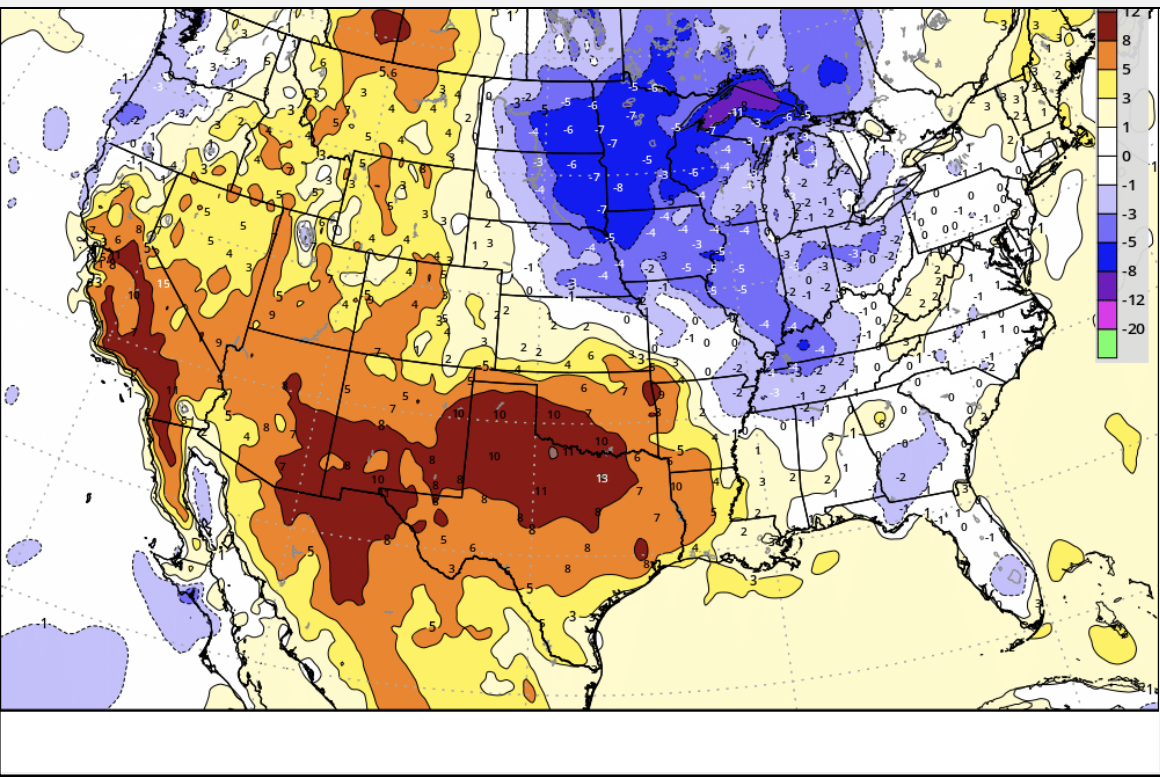
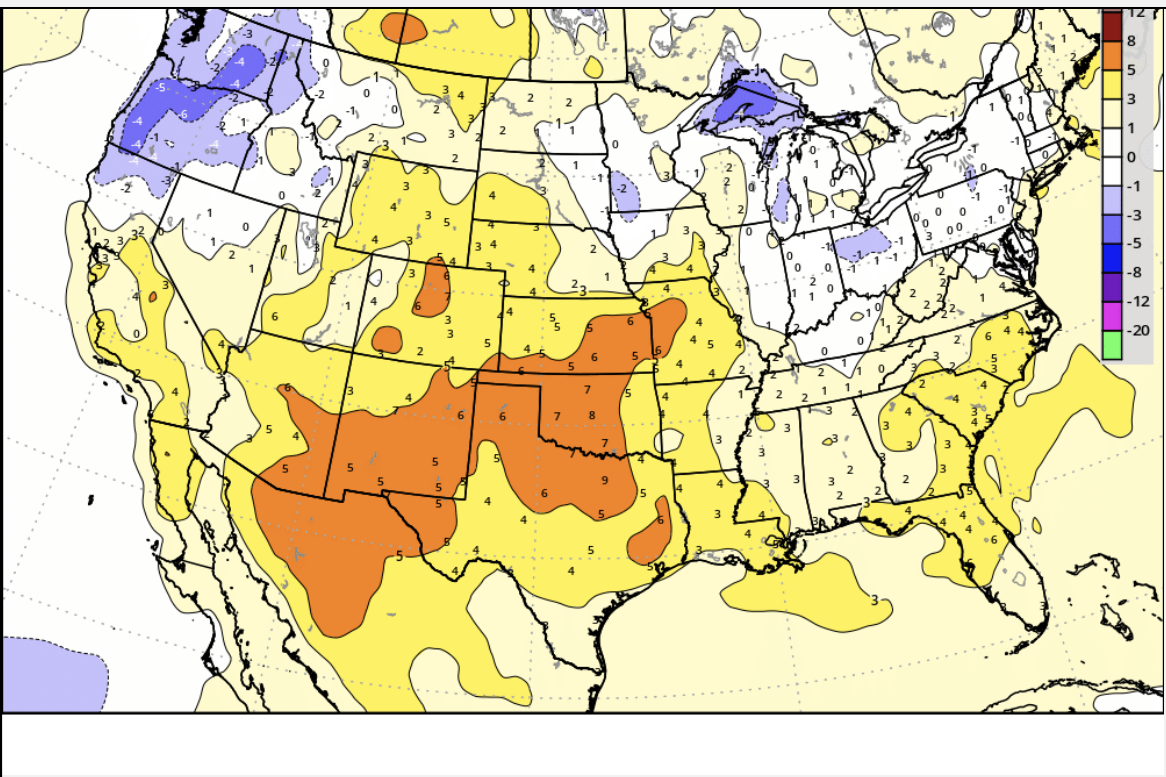
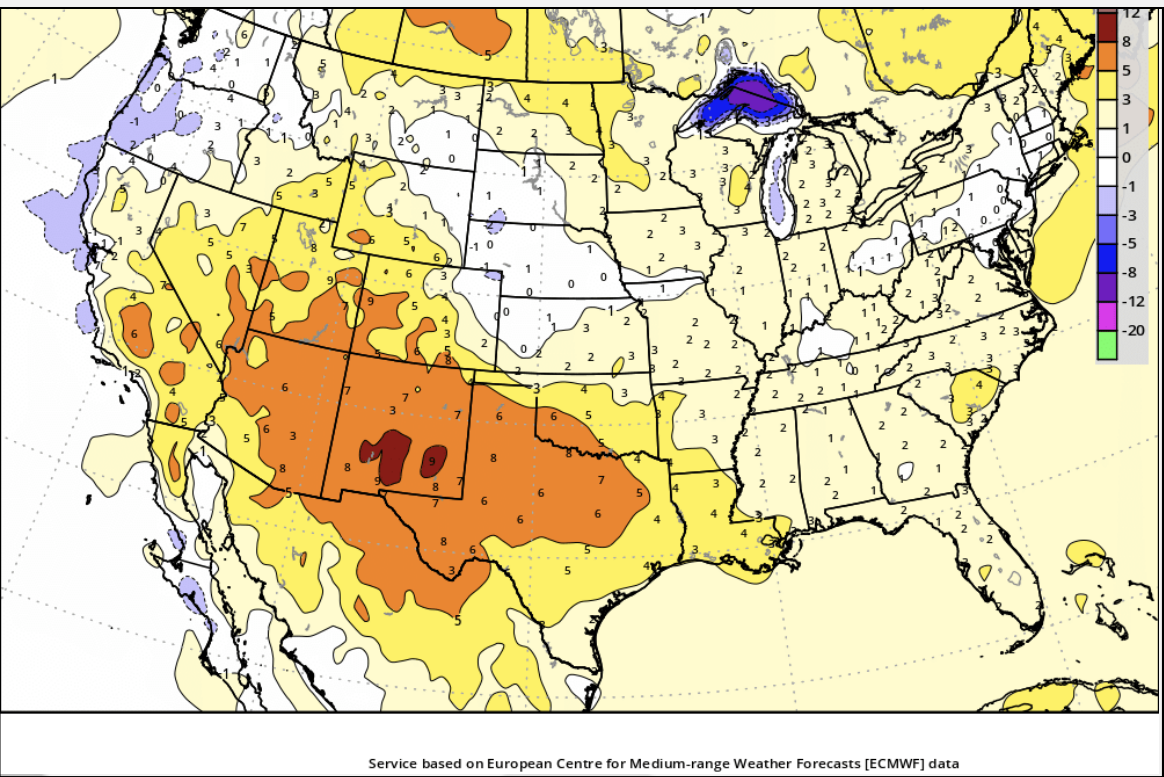
## 1 – 5 DAY DEPARTURE FROM NORMAL TEMPERATURE



## 6 – 10 DAY DEPARTURE FROM NORMAL TEMPERATURE



## 11 – 15 DAY DEPARTURE FROM NORMAL TEMPERATURE





# BAMWX AM TEMP DATA CHANGES

7-Jul-23

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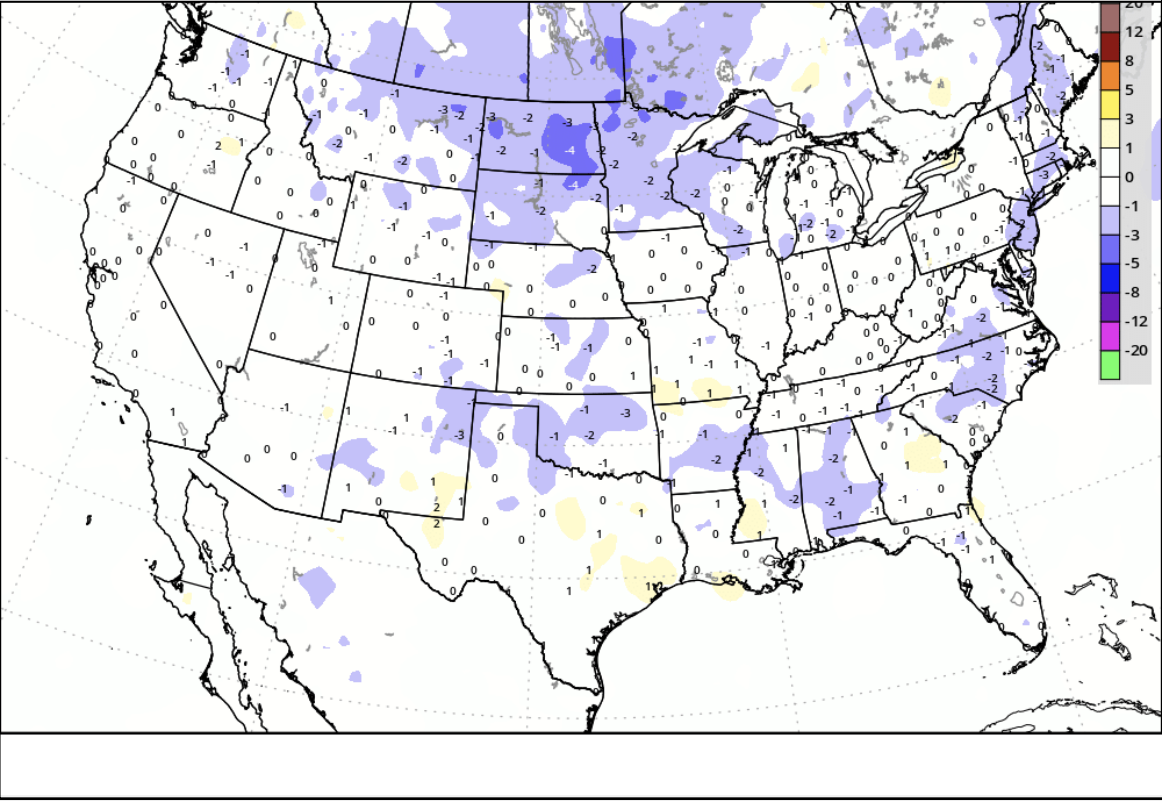
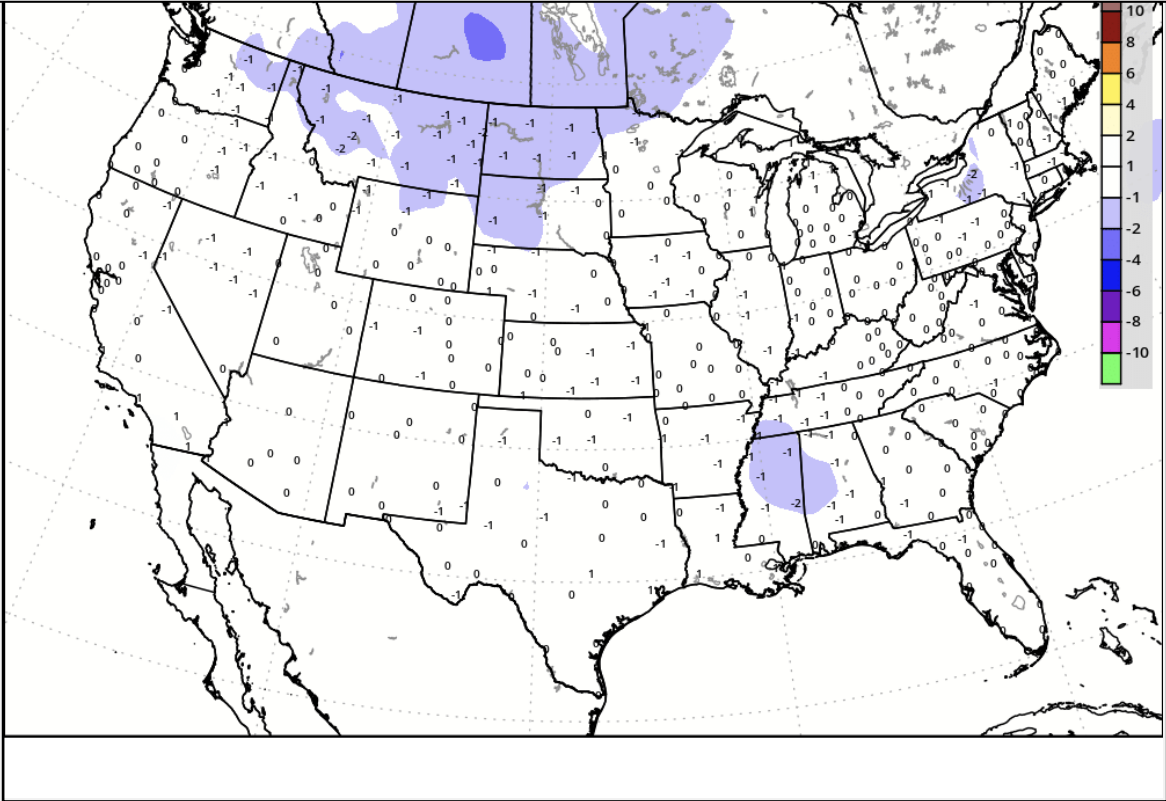
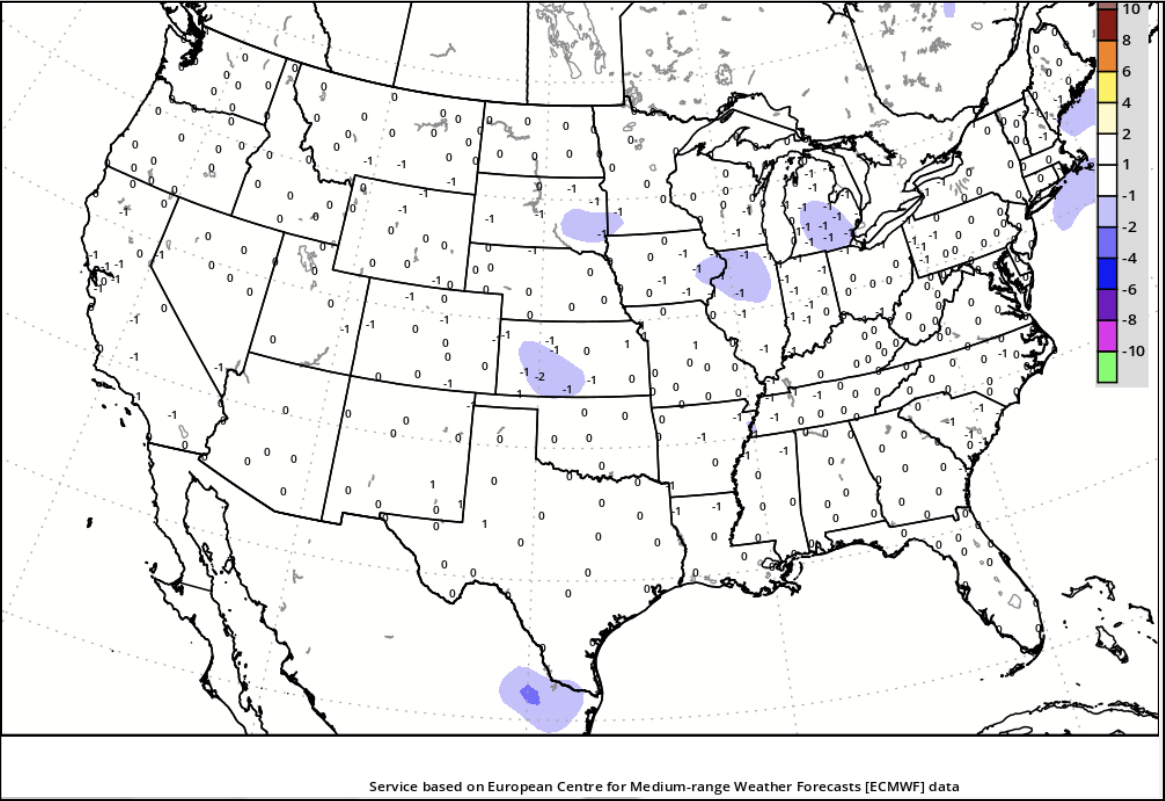


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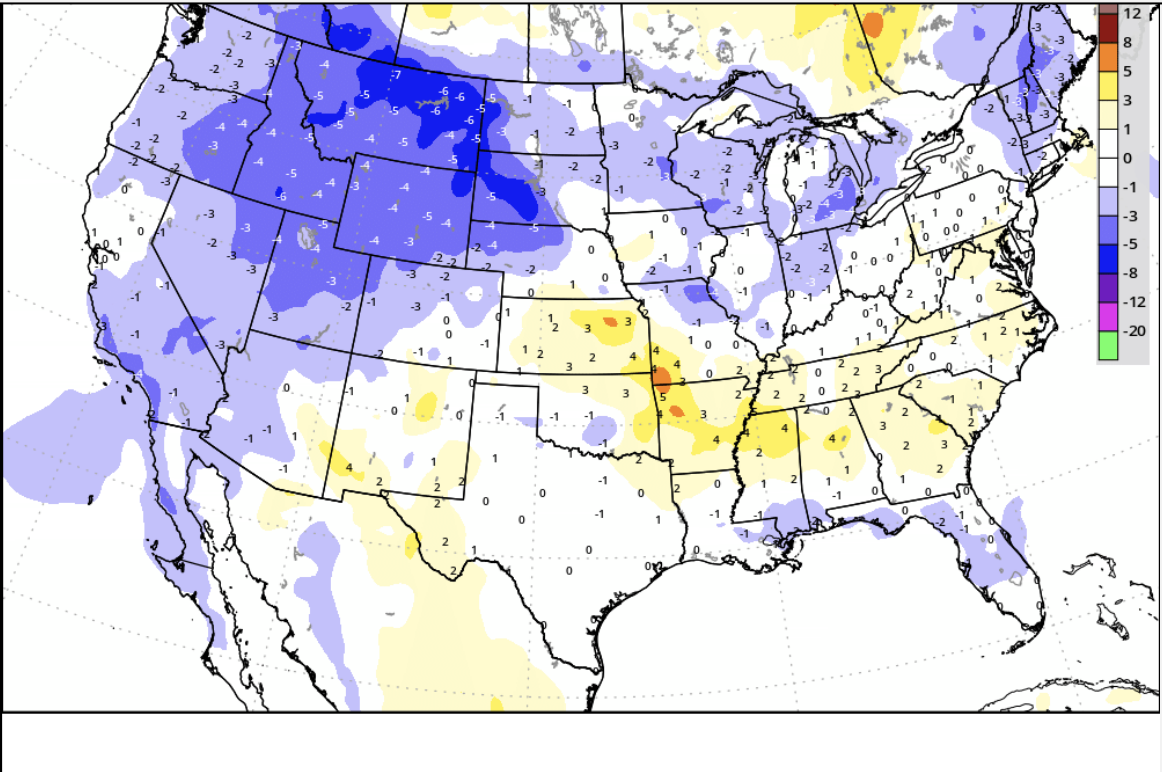
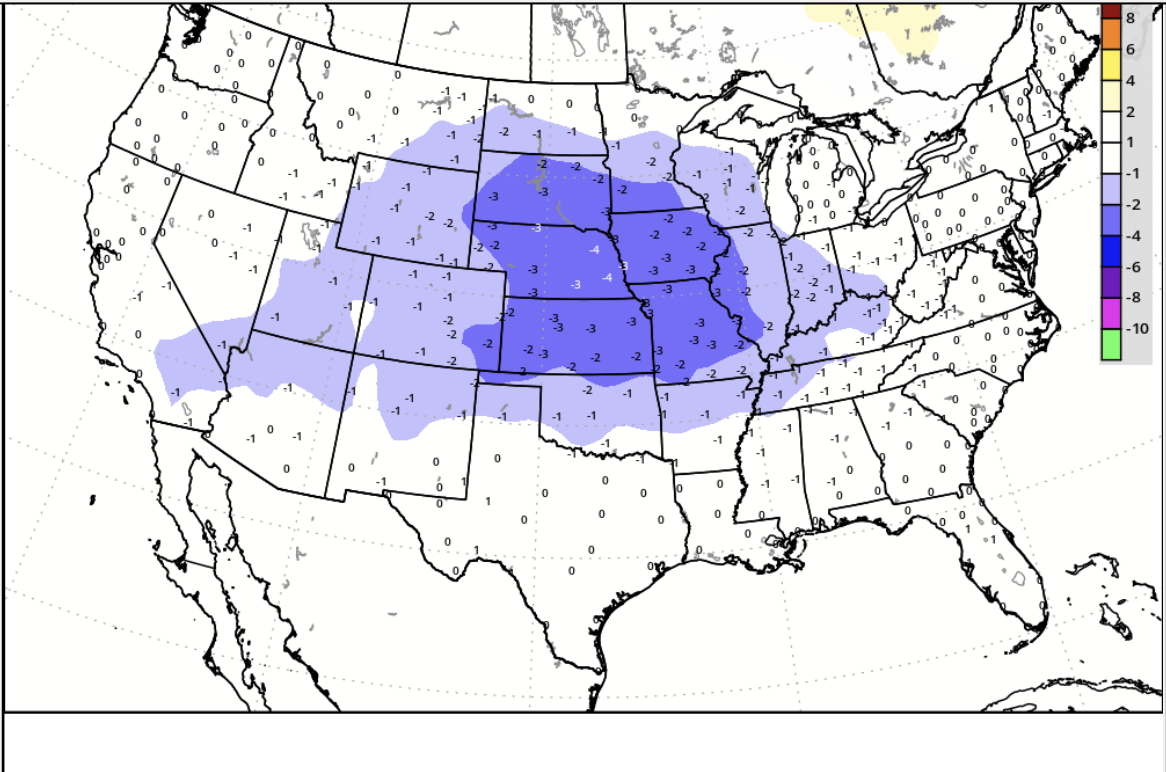
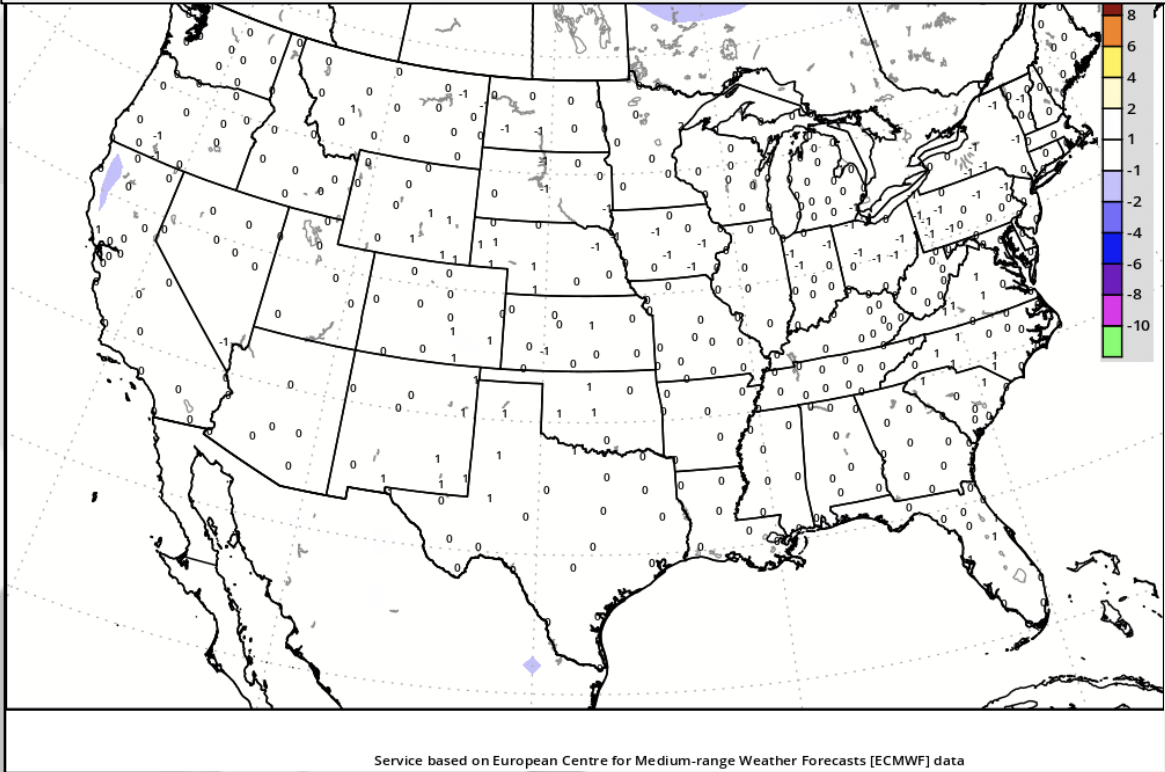
GEFS

GFS

1 – 5 DAY CHANGE IN TEMPERATURES VS. 12 HR. AGO



6 – 10 DAY CHANGE IN TEMPERATURES VS. 12 HR. AGO



11 – 15 DAY CHANGE IN TEMPERATURES VS. 12 HR. AGO

