

# BAMWX PM MODEL BEHAVIOR ANALYSIS

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**Prepared By: Feick  
December 13, 2024**



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Week 1 & 2 Forecast

## **Page 3**

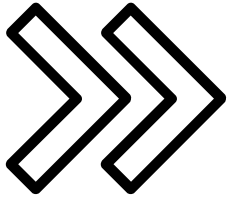
GEFS 0z to 12z Model Trends

## **Page 2**

Week 2 12z GEFS/EPS Notes

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EPS 0z to 12z Model Trends



# BAMWX Week's 1 & 2 Forecast



## Week 1 GWHDDs

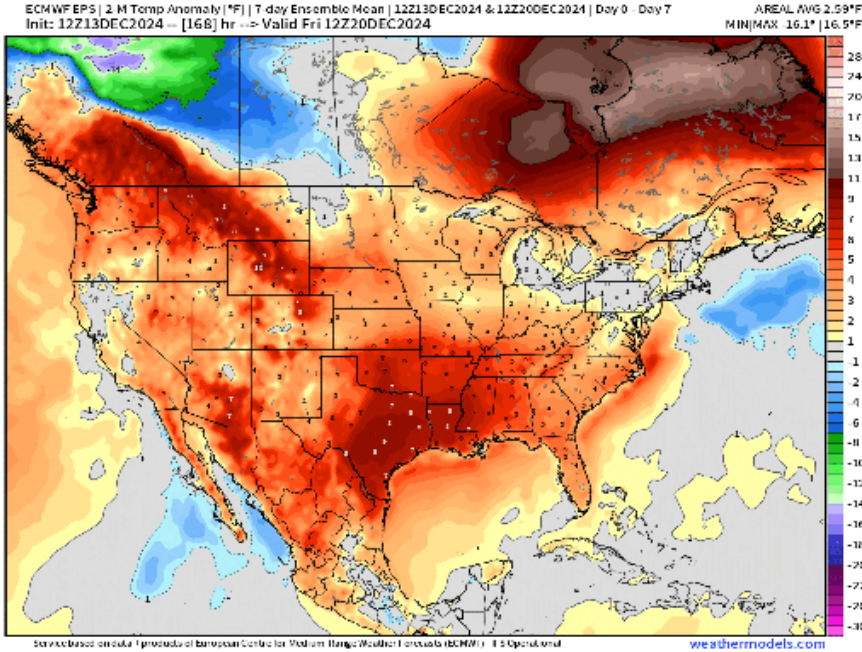
10 Year	190.7
30 Year	198.8
BAM	167.0

## Week 1 Confidence

Near Normal

**Focal Point:** Warmer than normal temperatures will fill in through the weekend. At the end of week 1, cooler air will begin to filter back in.

## December 13 - 19, 2024



## Week 2 GWHDDs

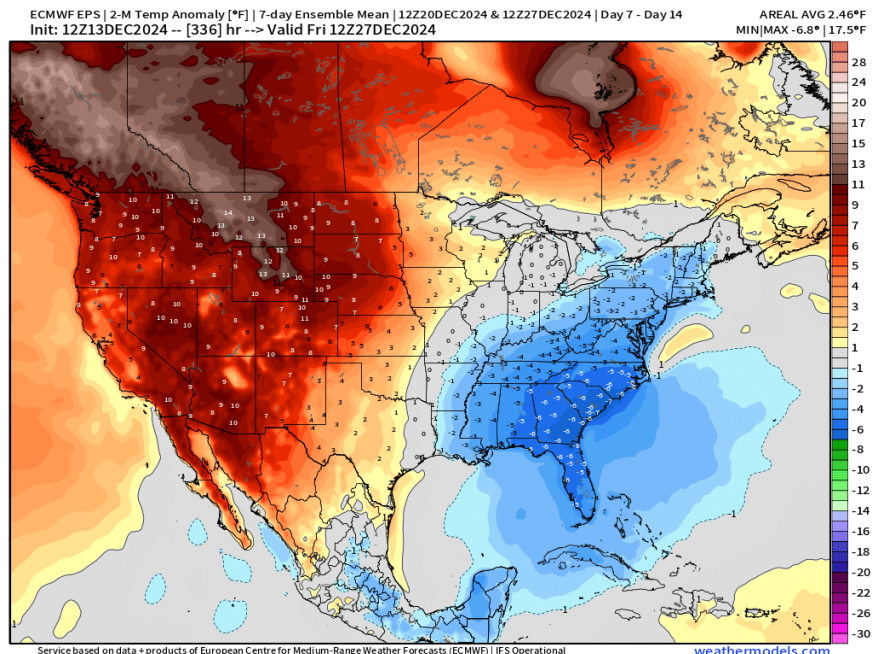
10 Year	198.0
30 Year	206.5
BAM	193.0

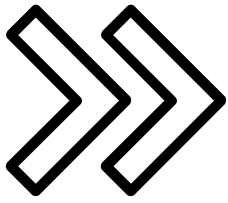
## Week 2 Confidence

Near Normal

**Focal Point:** Week 2 will consist of multiple ups and downs, averaging out to be slightly below normal for HDDs. These fluctuations in temperature will be caused by warmer than normal air ahead of fronts with cold below normal temps behind.

## December 20 - 26, 2024





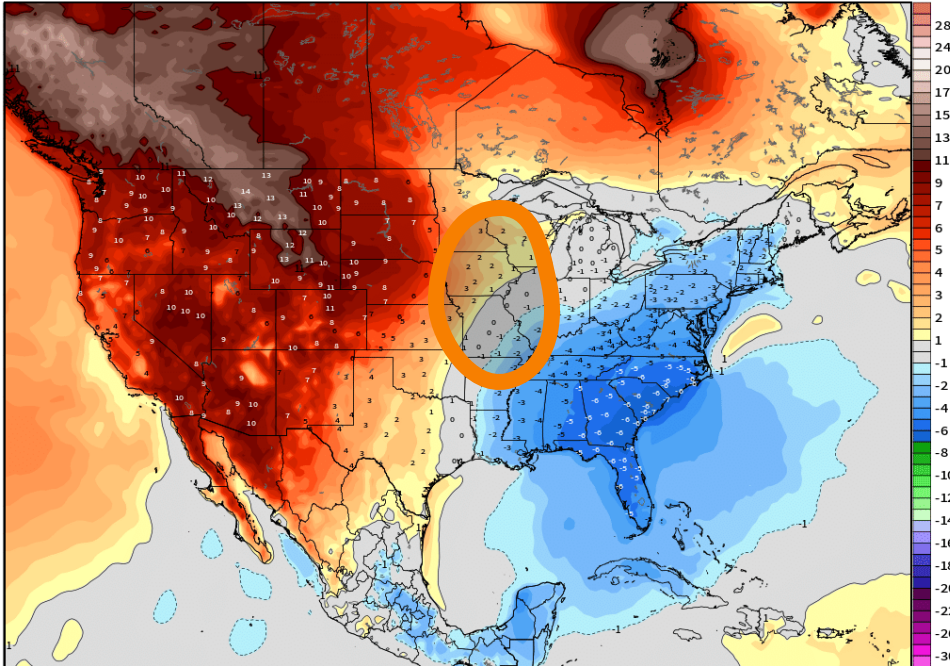
# BAMWX Week 2 Forecast Analysis



## EPS Week 2: 12/19 - 12/25/2024

ECMWF EPS | 2-M Temp Anomaly [°F] | 7-day Ensemble Mean | 12Z20DEC2024 & 12Z27DEC2024 | Day 7 - Day 14  
Init: 12Z13DEC2024 -- [336] hr --> Valid Fri 12Z27DEC2024

AREAL AVG 2.46°F  
MIN|MAX -6.8° | 17.5°F



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Model Agreement Meter

Agree

Favored Week 2 Temp Trend

Slightly Warmer C US

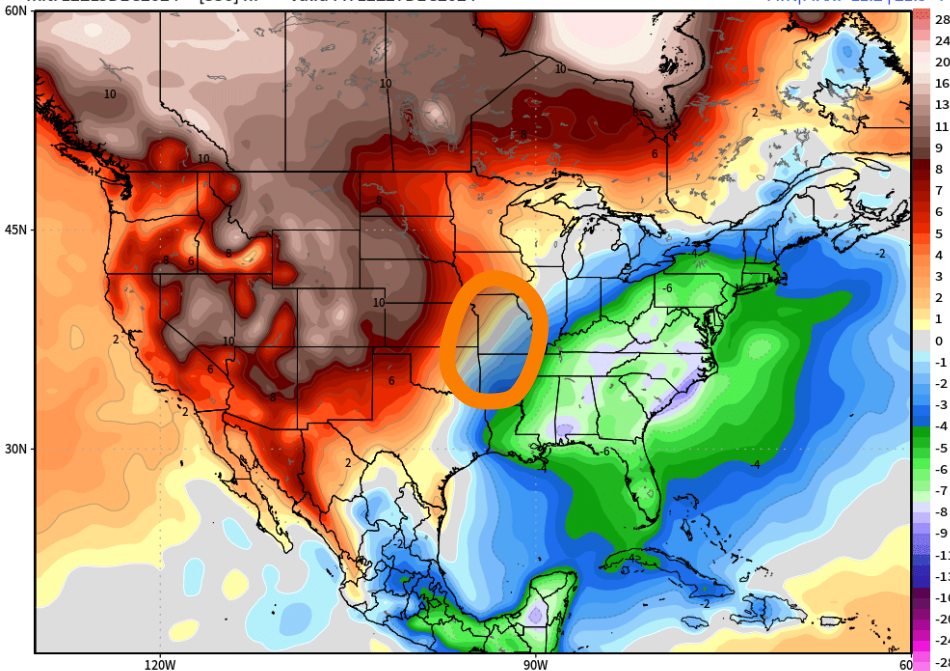
Favored Week 2 GWHDD Trend

Slightly Lower

## GEFS Week 2: 12/19 - 12/25/2024

NOAA GEFSv12 | 7-DAY AVG 2-METER TEMPERATURE ANOMALY [°F] | Ensemble Mean --> Days 7 to 14  
Init: 12Z13DEC2024 -- [336] hr --> Valid Fri 12Z27DEC2024

MIN|MAX: -11.2 | 21.9 °F



Model Agreement Meter

Slightly Agree

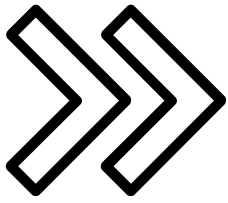
Favored Week 2 Temp Trend

Slightly Warmer C US

Favored Week 2 GWHDD Trend

Slightly Lower

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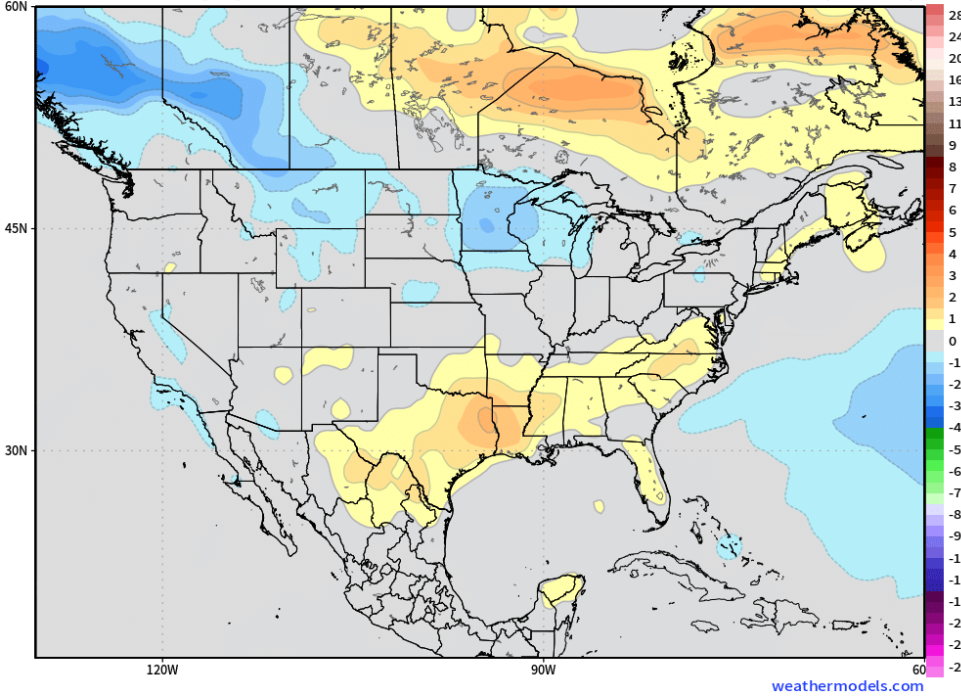


# GEFS 0z → 12z Model Trends



## Week 1 GEFS Trends

NOAA GEFSv12 | 7-DAY AVG 2-m Temp Anom [\*F] | Ensemble Mean → Days 0 to 7 | Model Cycle Diff [CURRENT minus 12-h PRIOR]  
Init: 12Z13DEC2024 -- [168] hr → Valid Fri 12Z20DEC2024 MIN|MAX: -3.6 | 3.0 °F



## Week 1 HDD Trend

Slightly Higher

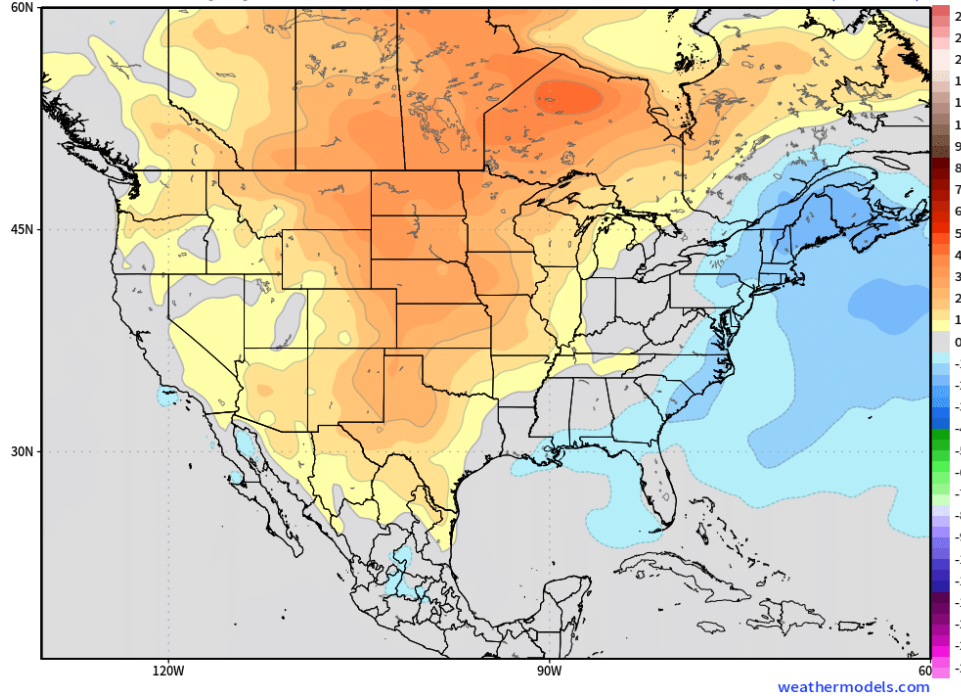
## HDD Trend Assessment

Slightly Agree

**Key Takeaway:**  
**S US Warmer Trends:** Agree  
**N/C US Cooler Trends:** Slightly agree

## Week 2 GEFS Trends

NOAA GEFSv12 | 7-DAY AVG 2-m Temp Anom [\*F] | Ensemble Mean → Days 7 to 14 | Model Cycle Diff [CURRENT minus 12-h PRIOR]  
Init: 12Z13DEC2024 -- [336] hr → Valid Fri 12Z27DEC2024 MIN|MAX: -2.0 | 4.6 °F



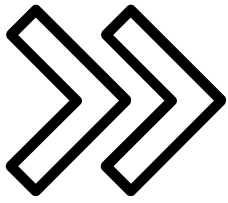
## Week 2 HDD Trend

Slightly Higher

## HDD Trend Assessment

Agree

**Key Takeaways:**  
**Western US Warmer Trends:** Agree  
**East Coast Cooler Trends:** Agree

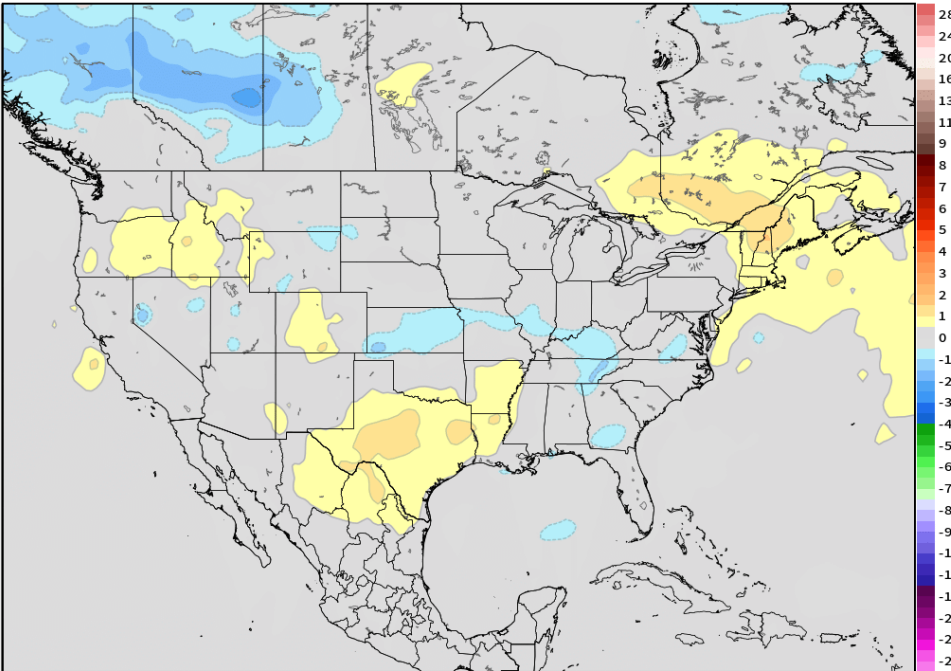


# EPS 0z → 12z Model Trends



## Week 1 EPS Trends

ECMWF EPS 7-Day Temperature [°F] | Ensemble Mean --> Days 0 to 7 | Model Cycle Difference [CURRENT minus 12-h PRIOR]  
Init: 12Z13DEC2024 -- [168] hr --> Valid Fri 12Z20DEC2024 MIN|MAX: -2.3 | 2.0 °F



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## Week 1 HDD Trend

Slightly Lower

## HDD Trend Assessment

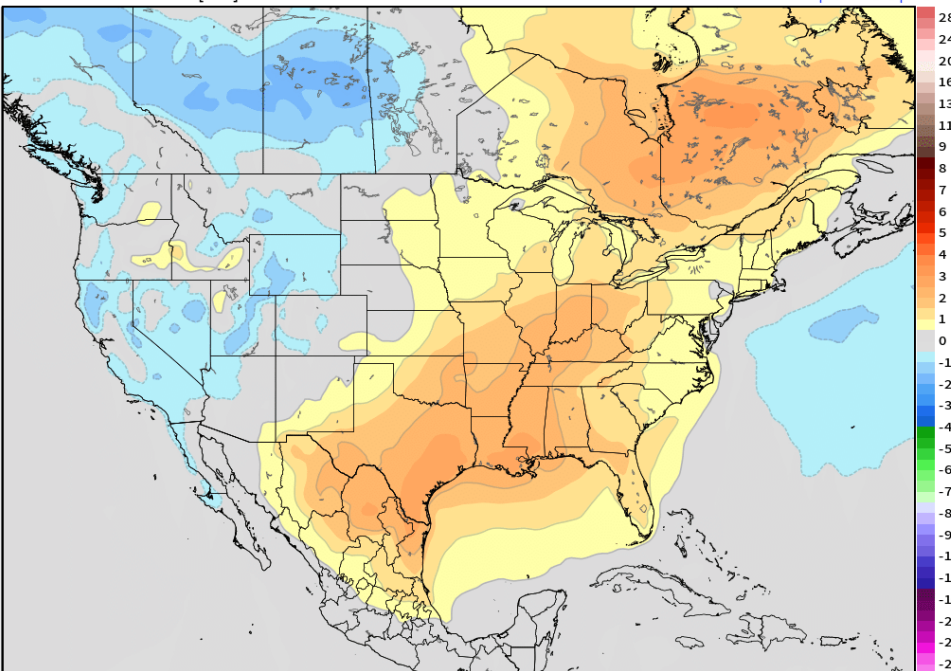
Slightly Agree

**Key Takeaway:**  
S Plains Slight Warmer  
Trends: Agree

C US/Midwest Cooler  
Trends: Slightly agree

## Week 2 EPS Trends

ECMWF EPS 7-Day Temperature [°F] | Ensemble Mean --> Days 7 to 14 | Model Cycle Difference [CURRENT minus 12-h PRIOR]  
Init: 12Z13DEC2024 -- [336] hr --> Valid Fri 12Z27DEC2024 MIN|MAX: -2.1 | 3.2 °F



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## Week 2 HDD Trend

Slightly Lower

## HDD Trend Assessment

Slightly Agree

**Key Takeaway:**  
Warmer Plains/ Ohio  
Valley Trends: Agree

Slightly Cooler W US  
Trends: Disagree