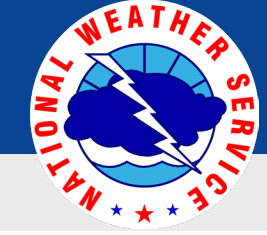


# North Carolina Drought Management Advisory Council (NC DMAC) 2024 Annual Meeting

Barrett Smith

National Weather Service - Raleigh, NC

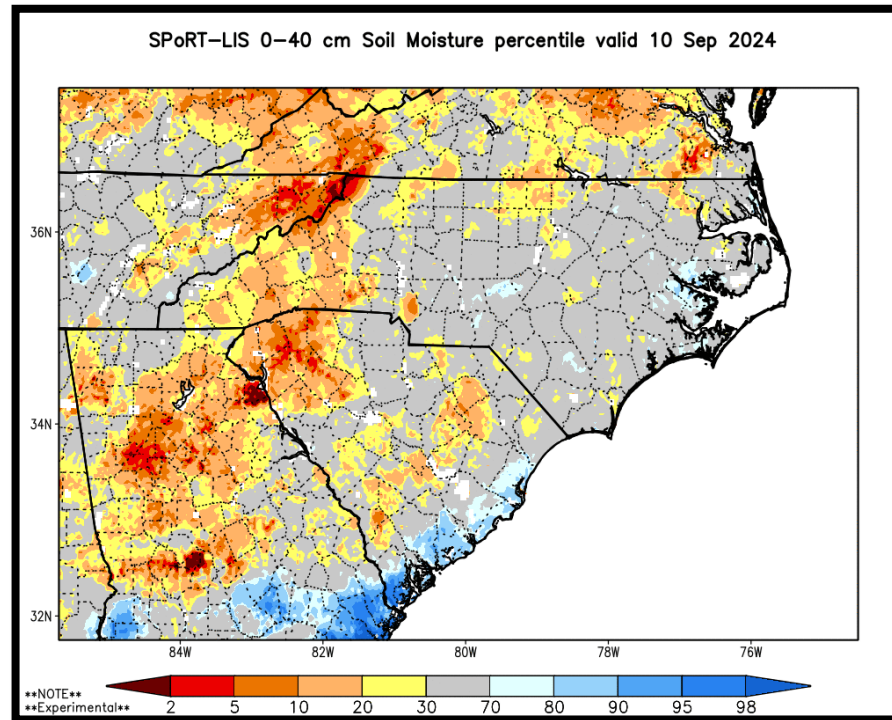


# NASA SPoRTLIS Soil Moisture

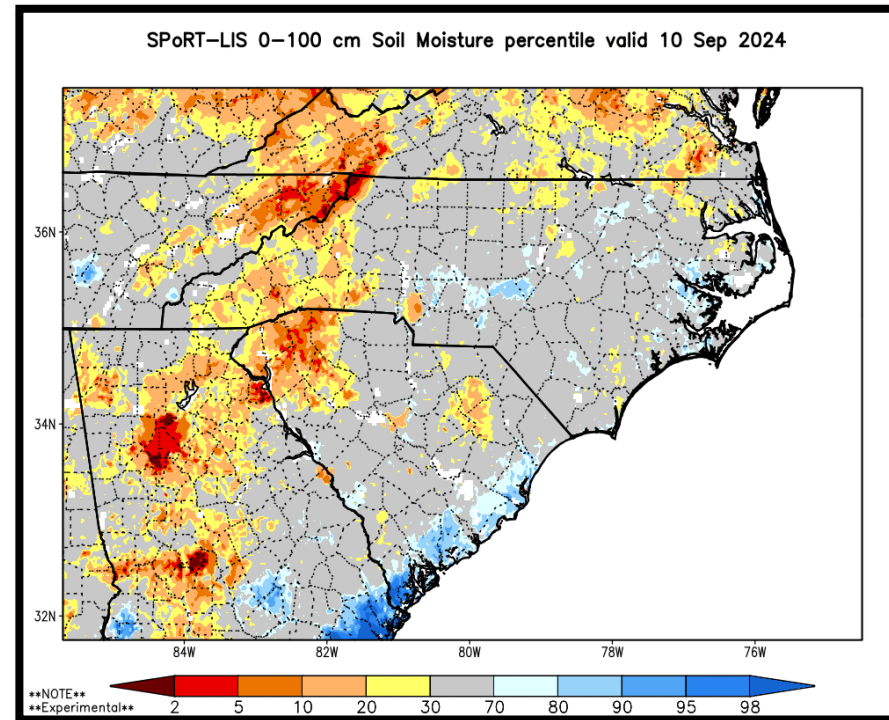
September 10, 2024  
11:31 AM

Courtesy of NASA SPoRT

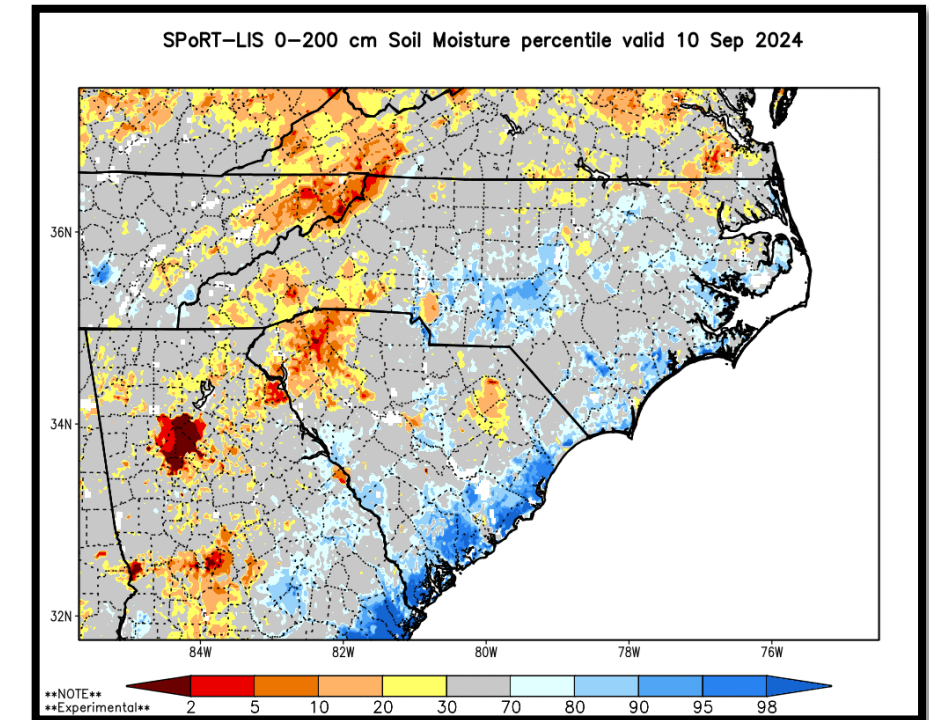
## 0-40cm Percentile



## 0-100cm Percentile

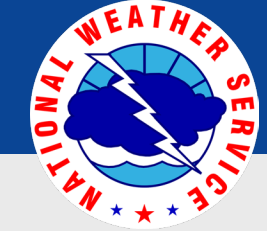


## 0-200cm Percentile



- Model based
- Uses time-varying input atmospheric analyses such as incoming radiation, wind, temperature, and precip, as well as and soil / vegetation properties.
- Percentiles put wetness/dryness into historical context



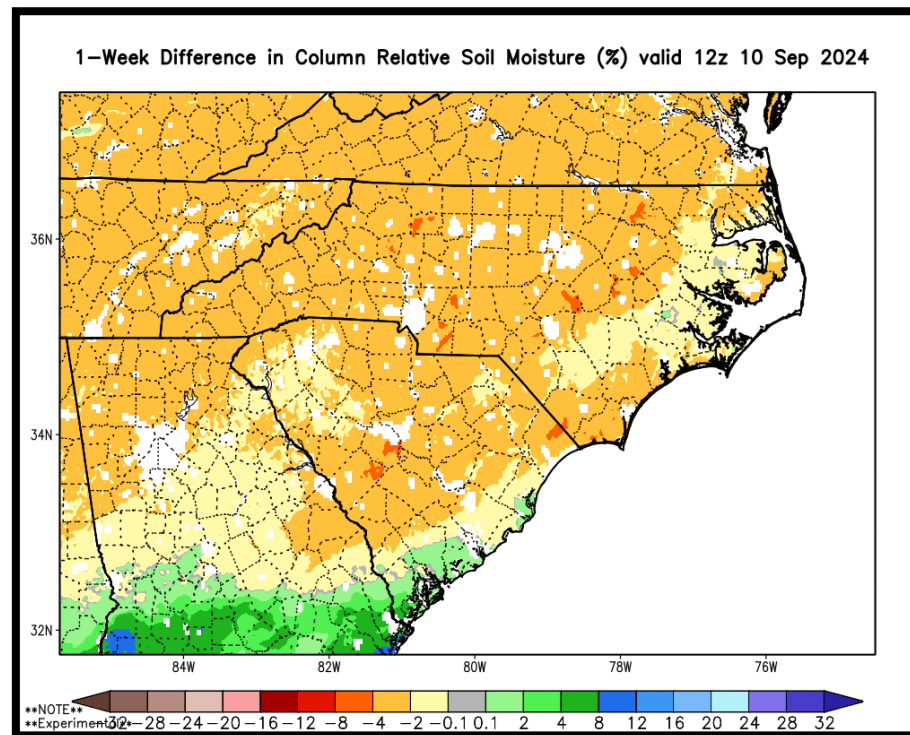


# NASA SPoRTLIS Soil Moisture

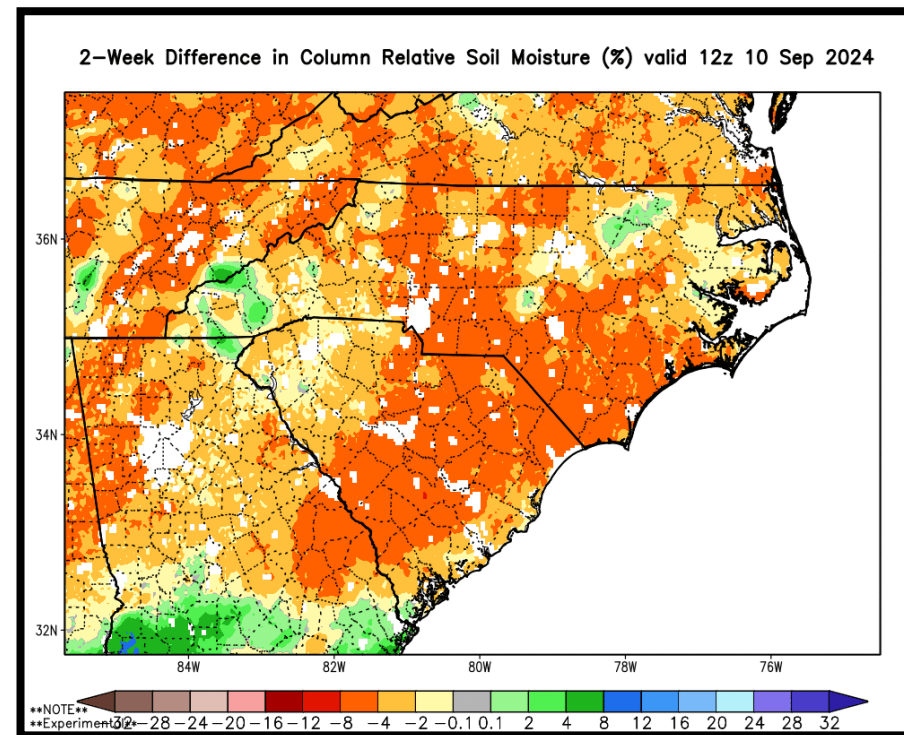
Courtesy of NASA SPoRT

September 10, 2024  
11:31 AM

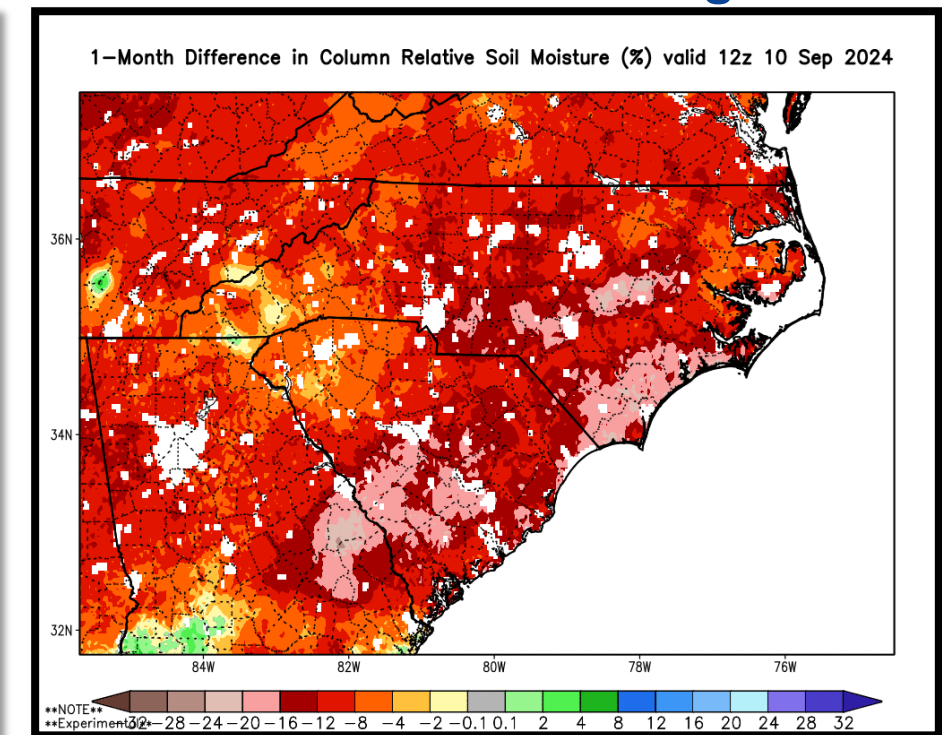
## One Week RSM Change



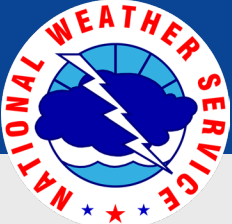
## Two Week RSM Change



## One Month RSM Change





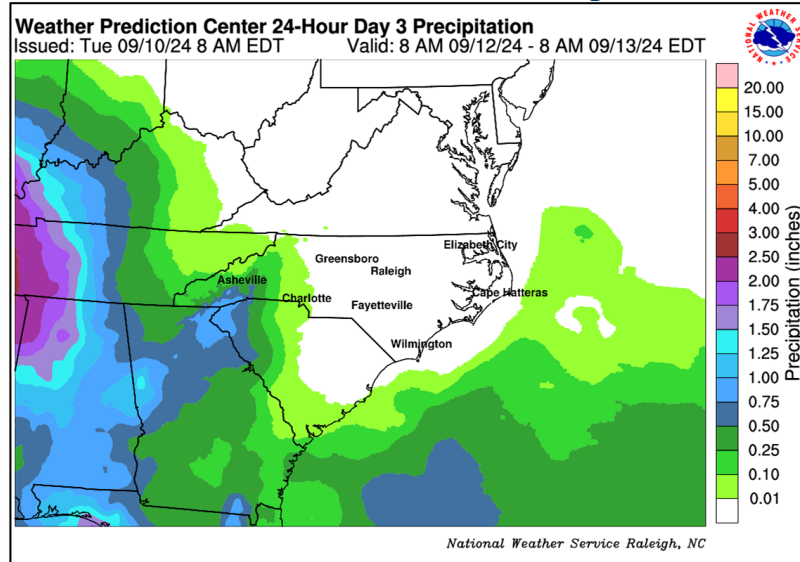


# Precipitation Forecasts

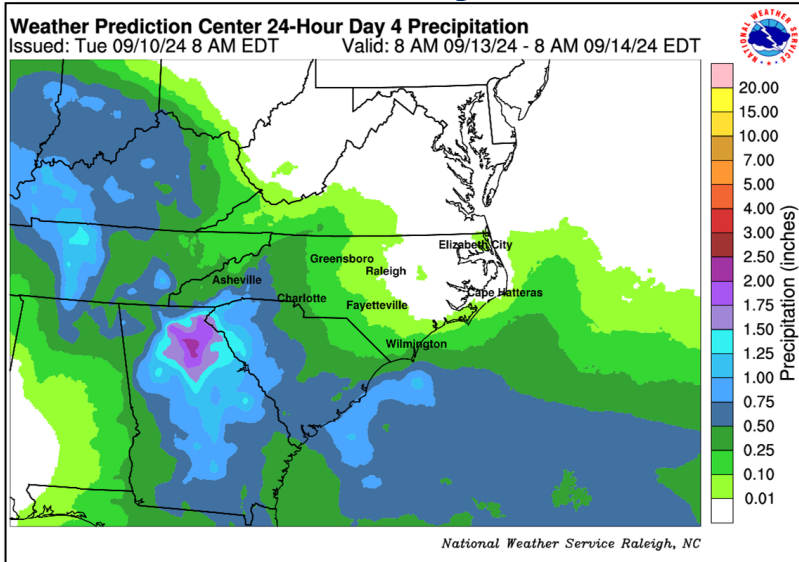
September 10, 2024  
11:31 AM

Courtesy of the Weather Prediction Center ([www.wpc.ncep.noaa.gov](http://www.wpc.ncep.noaa.gov))

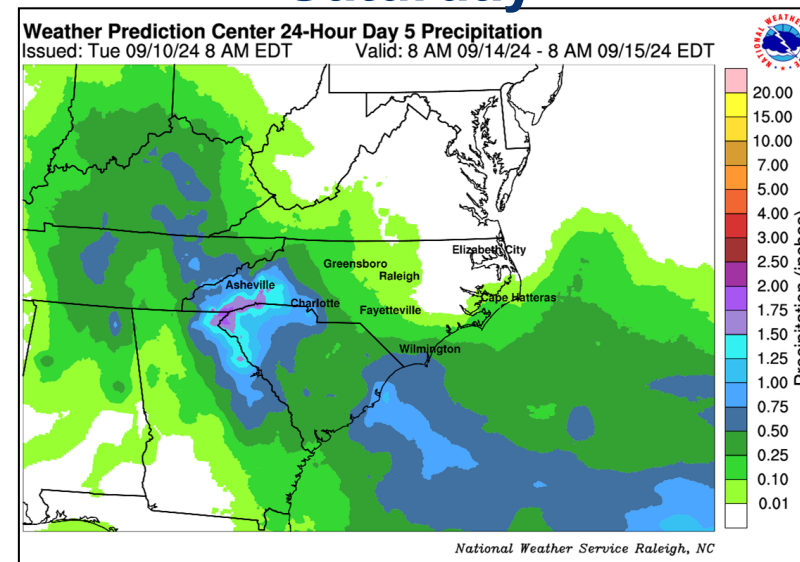
## Thursday



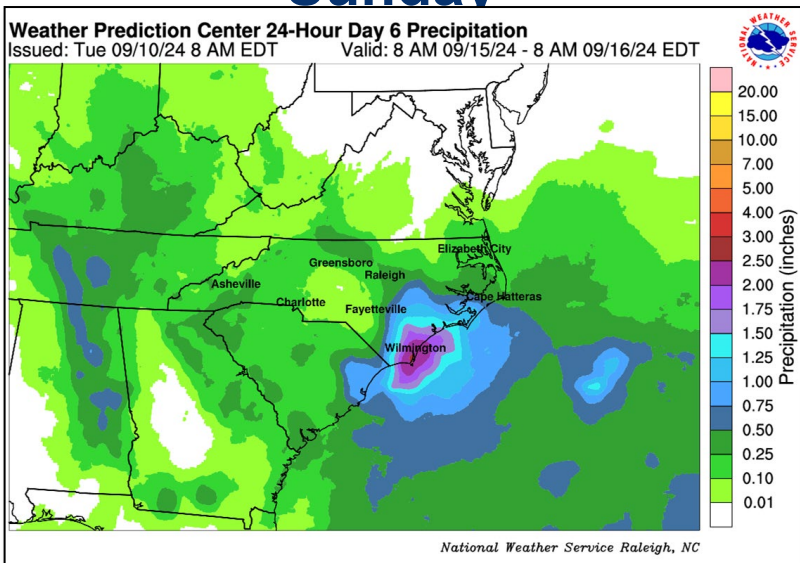
## Friday



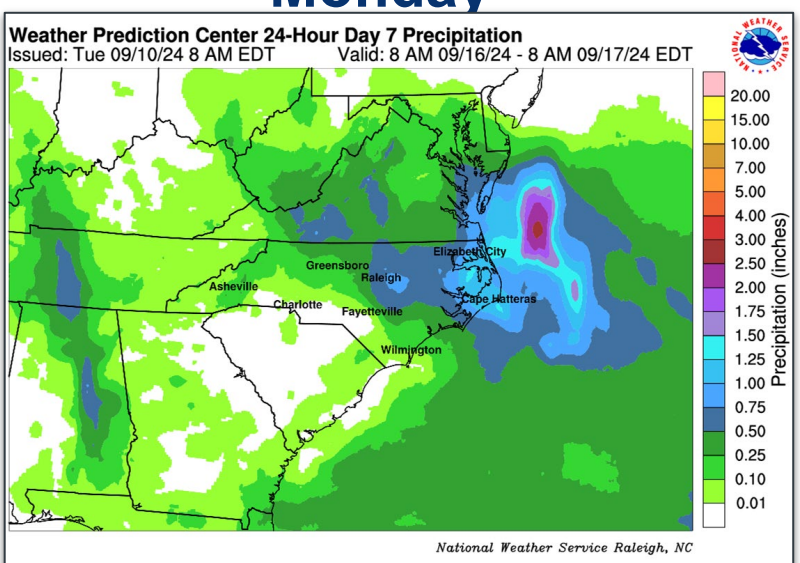
## Saturday

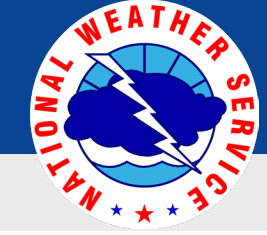


## Sunday



## Monday

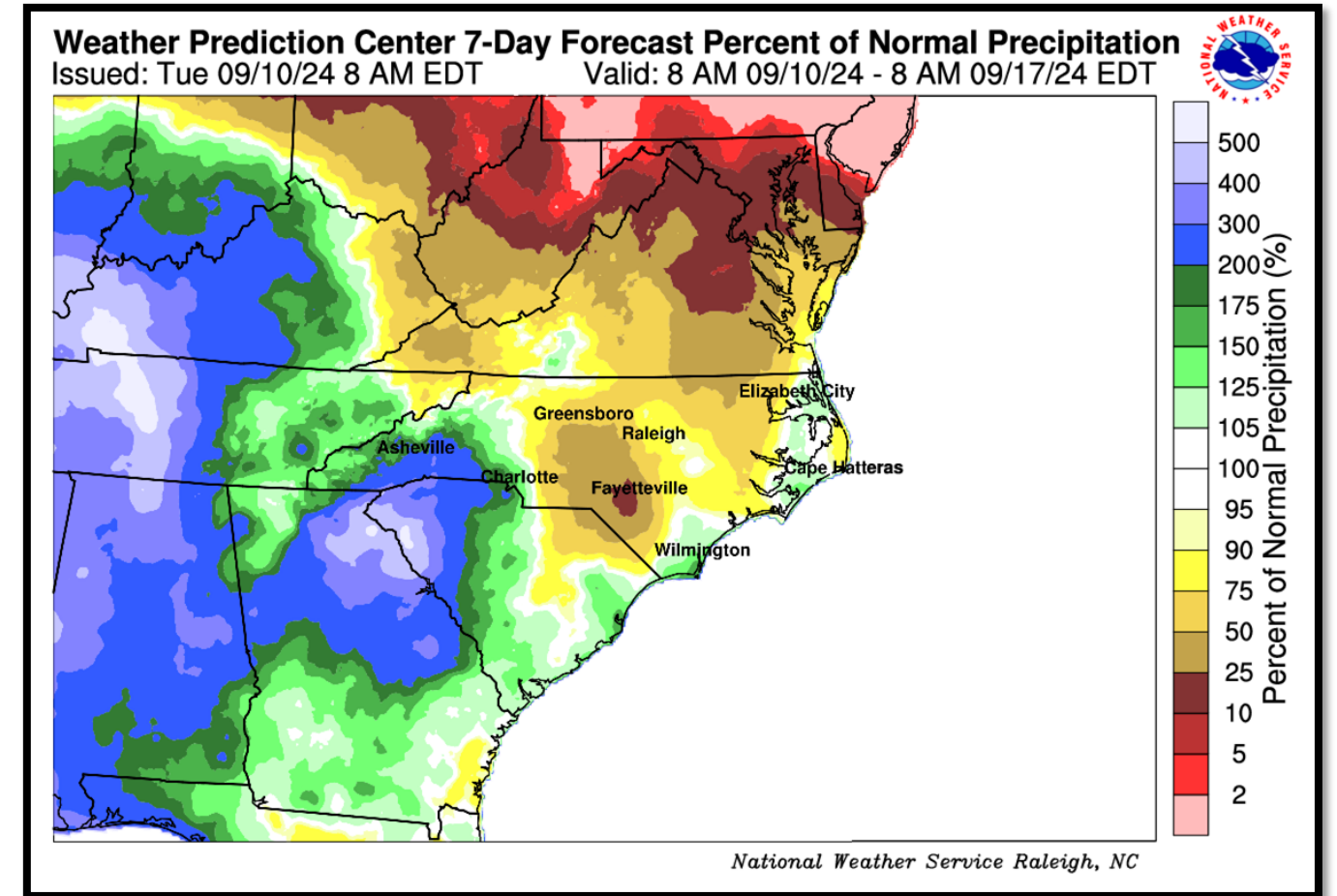
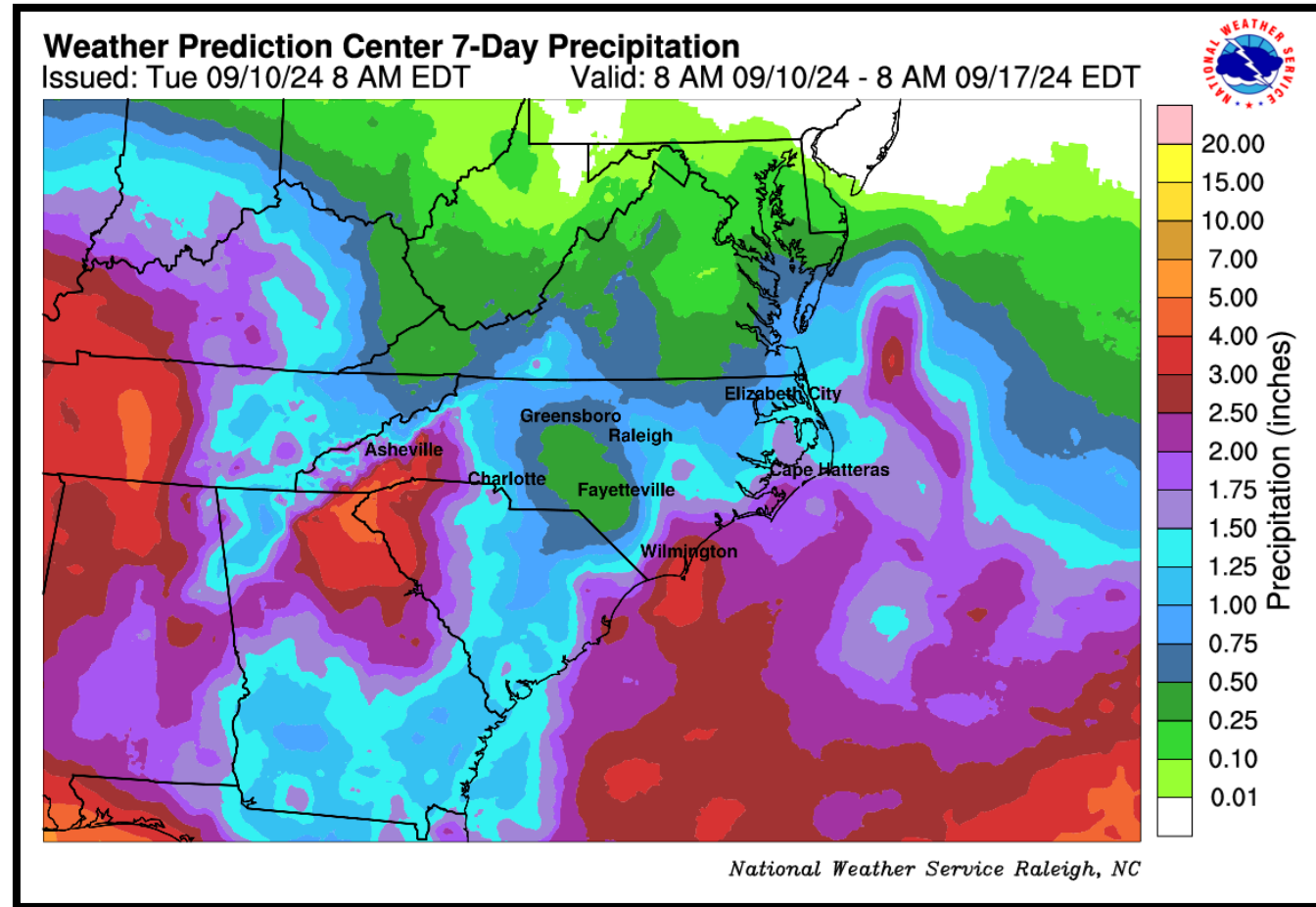




# Seven-Day Total Precipitation Forecast

September 10, 2024  
11:31 AM

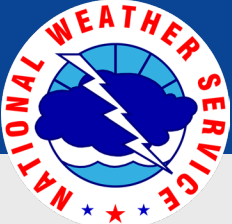
Courtesy of the Weather Prediction Center ([www.wpc.ncep.noaa.gov](http://www.wpc.ncep.noaa.gov))



- Western NC favored for better rainfall over the next seven days, although much of the state is forecast to see below normal 7-date rainfall.



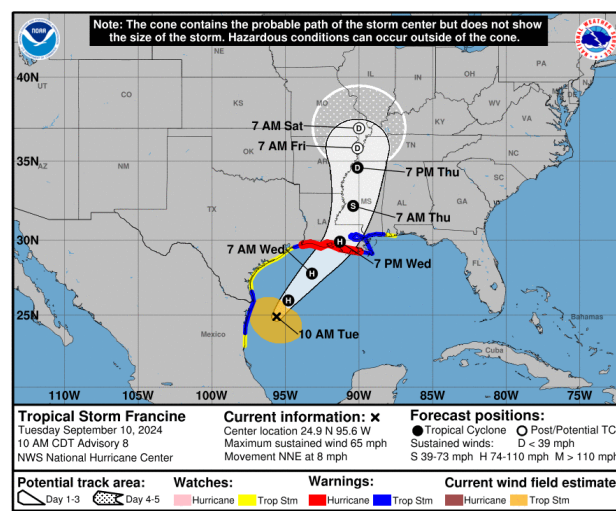
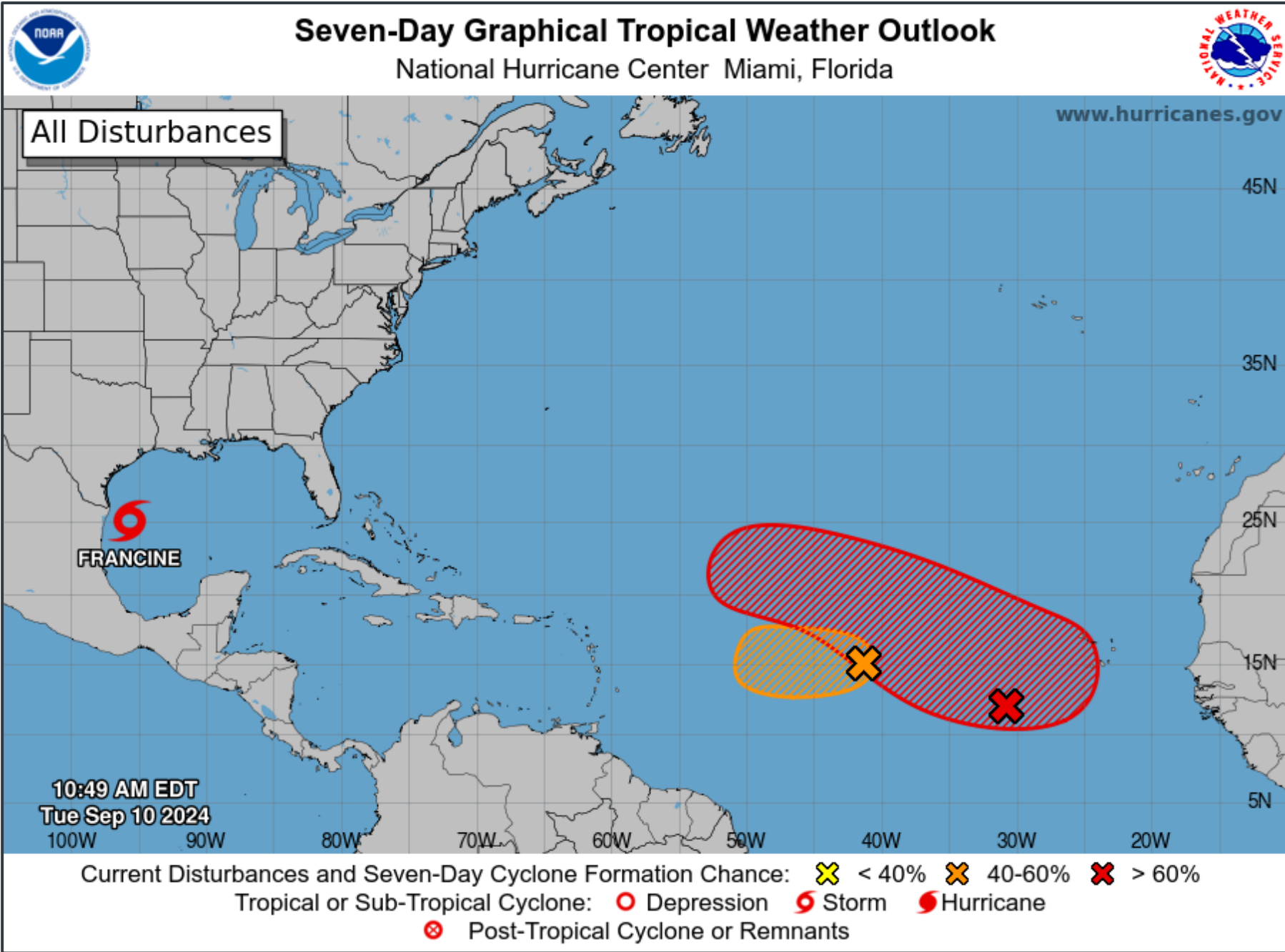


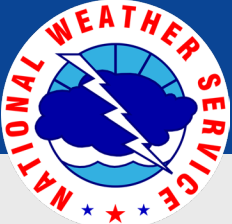


# Tropical Weather Outlook

September 10, 2024  
11:31 AM

<https://www.nhc.noaa.gov/>

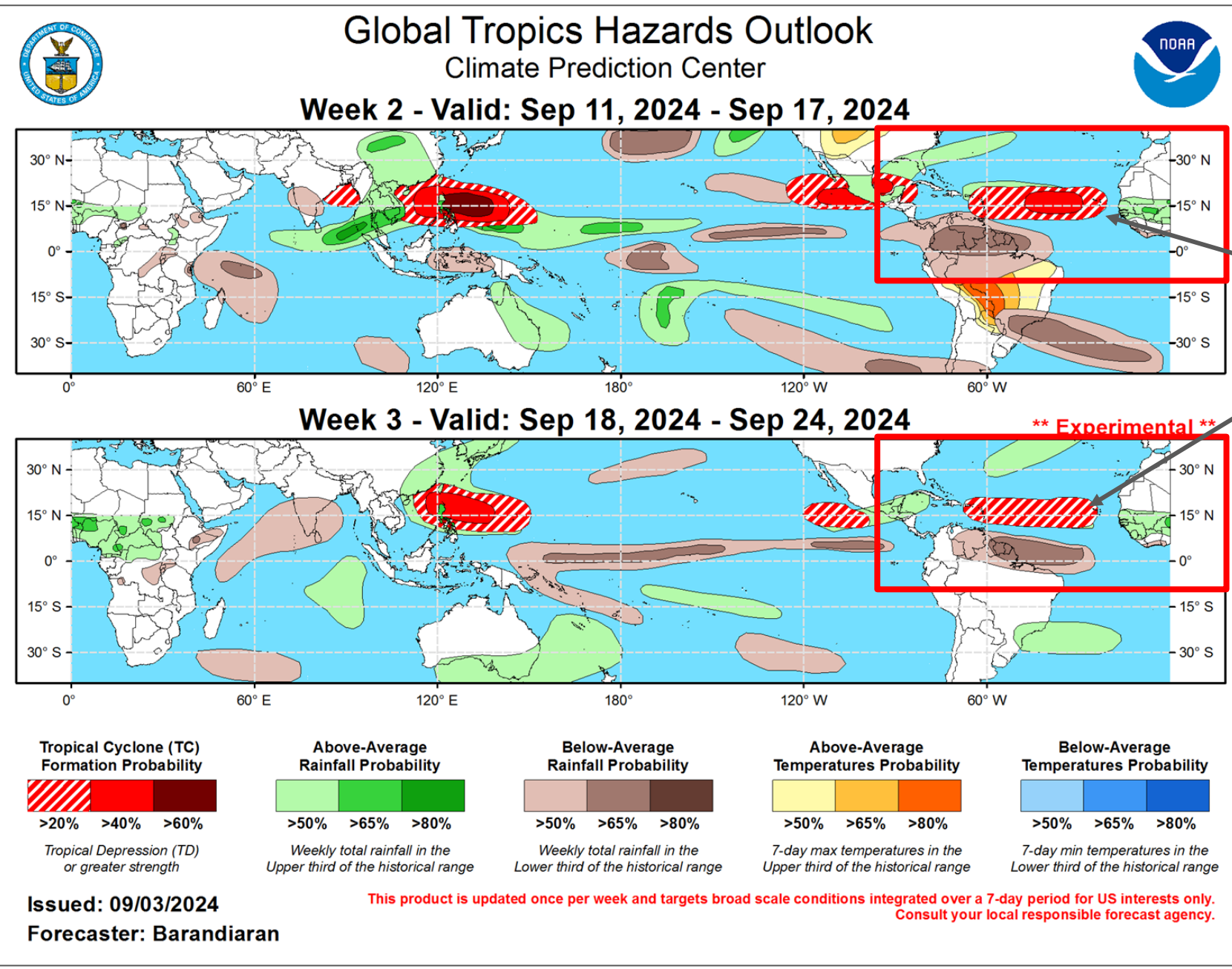




# Global Tropics Hazards Outlook

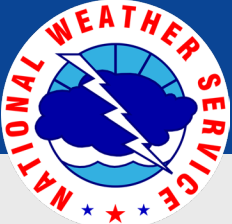
September 10, 2024  
11:31 AM

Courtesy of the Climate Prediction Center ([www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov))



Red hatched or solid areas indicate favored areas for tropical development in the next 2-3 weeks.





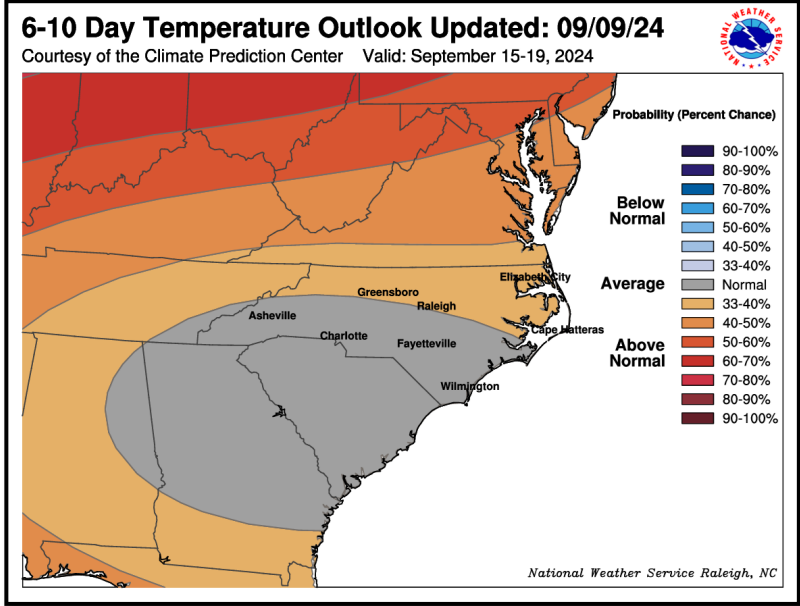
# Extended Outlooks

September 10, 2024  
11:31 AM

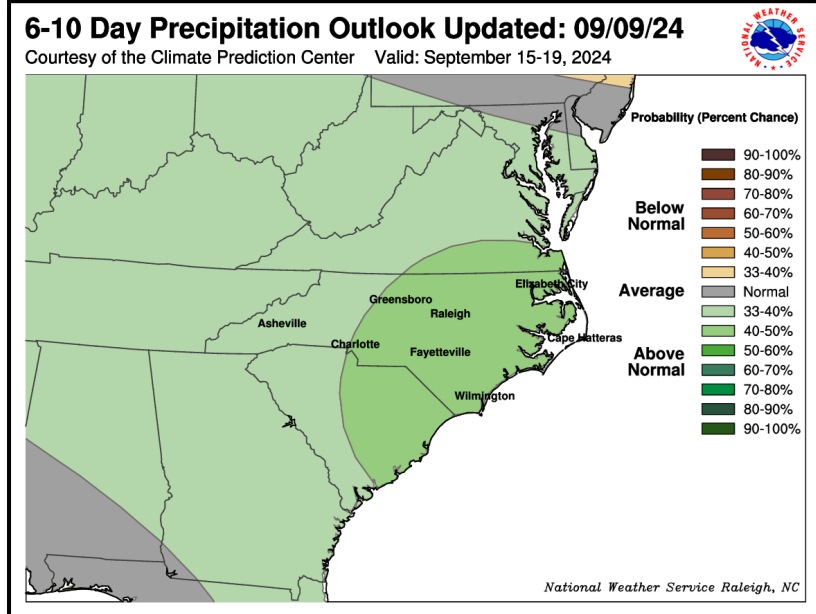
Courtesy of the Climate Prediction Center ([www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov))

6-10 Day

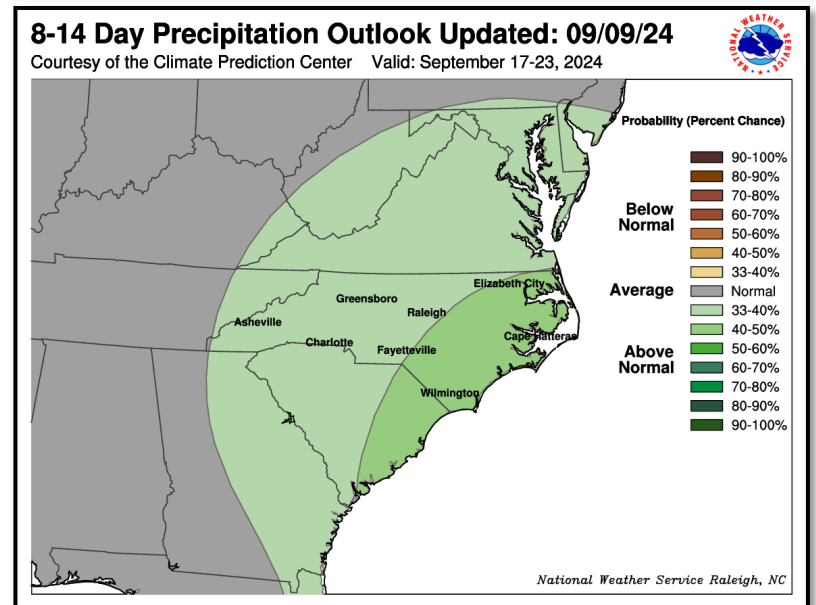
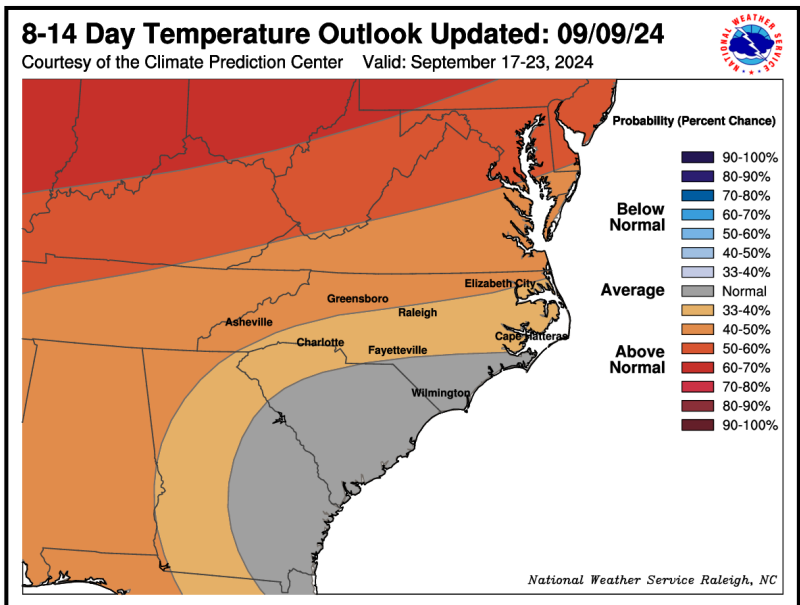
## Temperature



## Precipitation



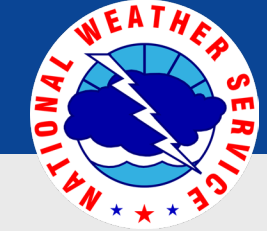
8-14 Day



- Extended outlooks provide probabilities of above or below normal temperature and rainfall
- Here, above normal rainfall is favored across eastern NC





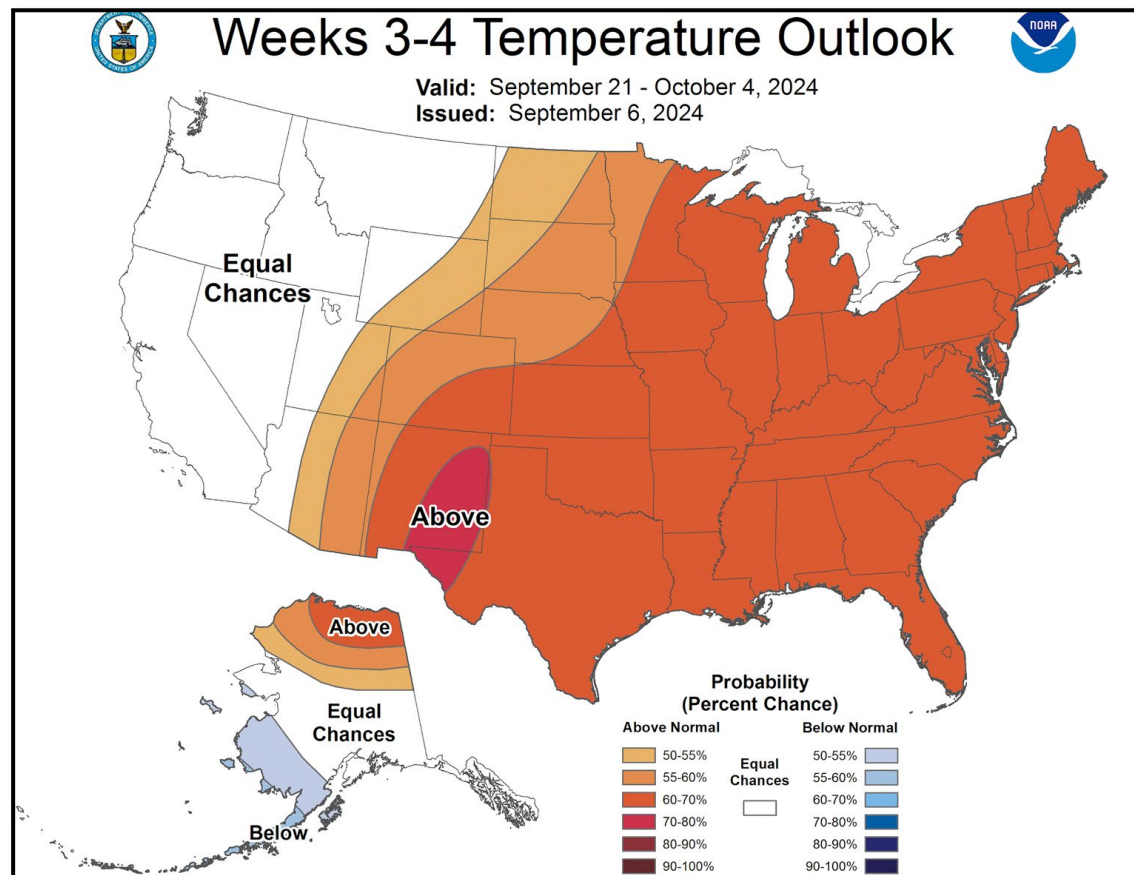


# Extended (3-4 Week) Outlooks

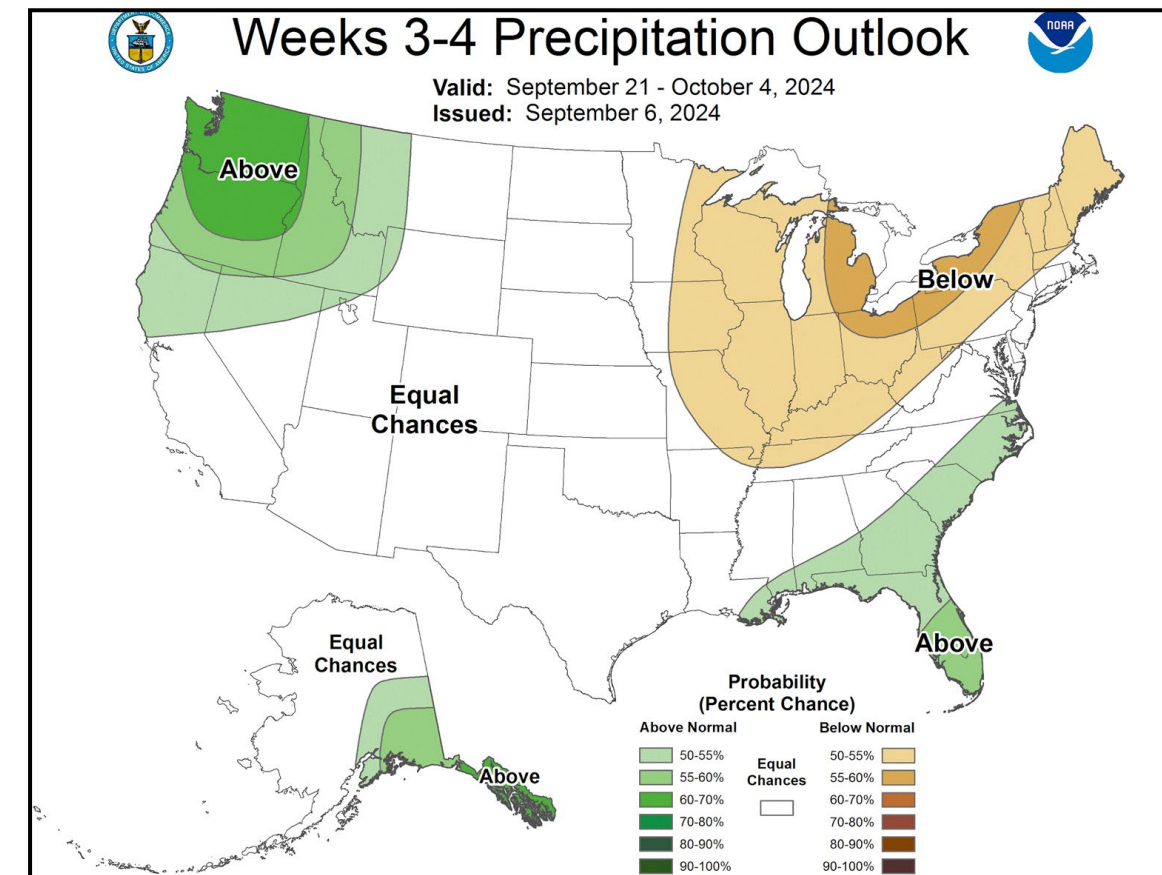
September 10, 2024  
11:31 AM

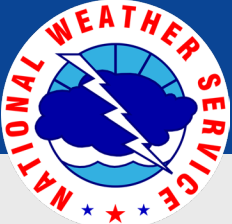
Courtesy of the Climate Prediction Center ([www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov))

## Temperature



## Precipitation





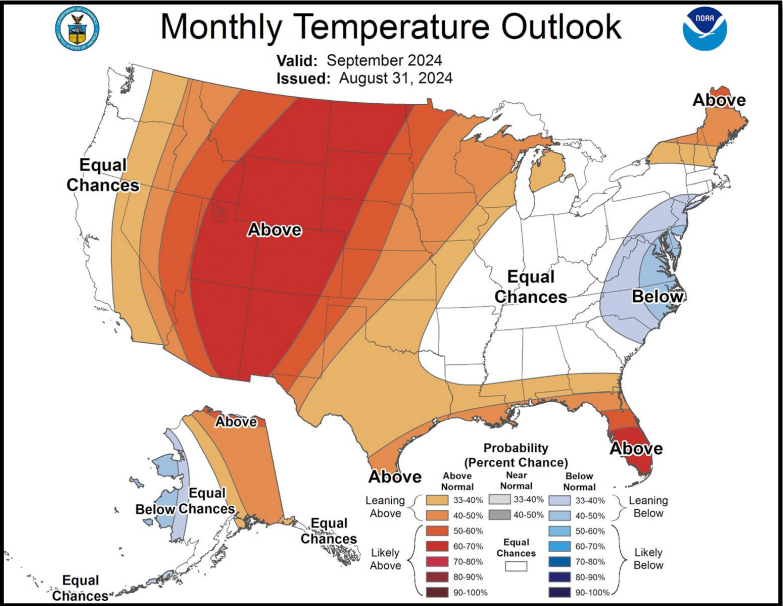
# Seasonal Outlooks

September 10, 2024  
11:31 AM

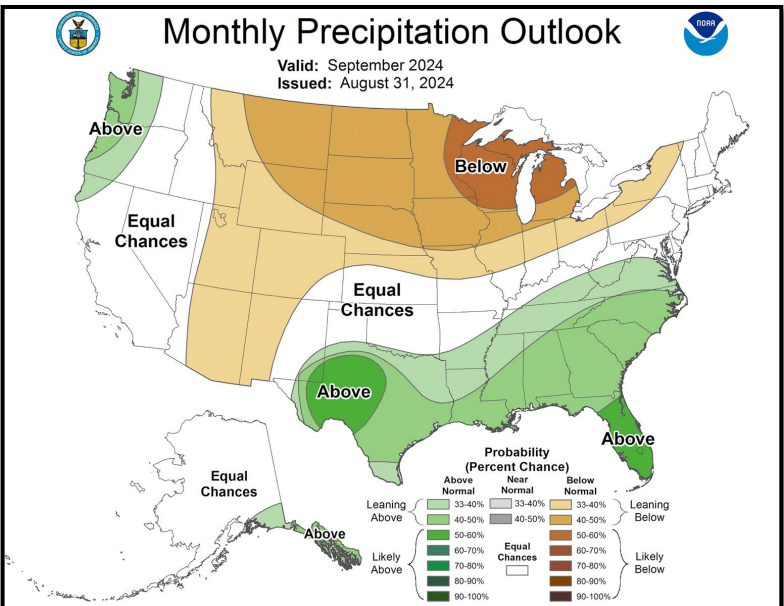
Courtesy of the Climate Prediction Center ([www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov))

One Month

## Temperature

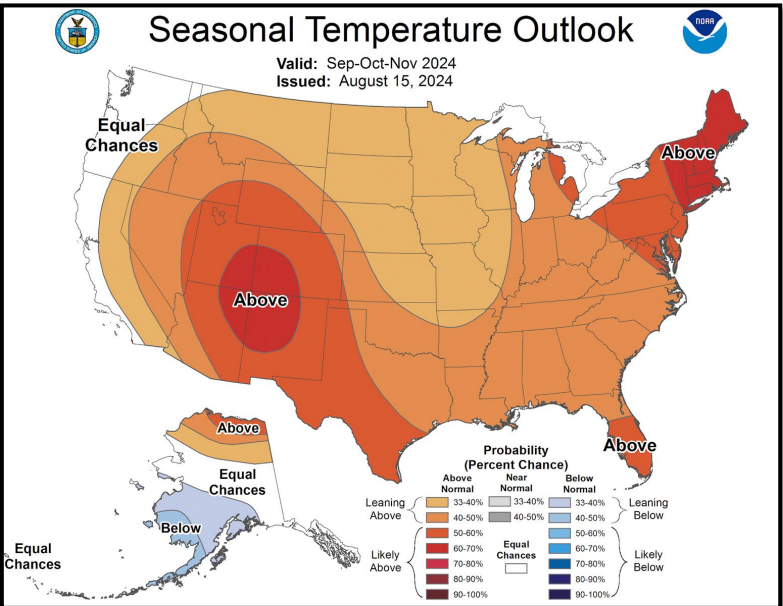


## Precipitation

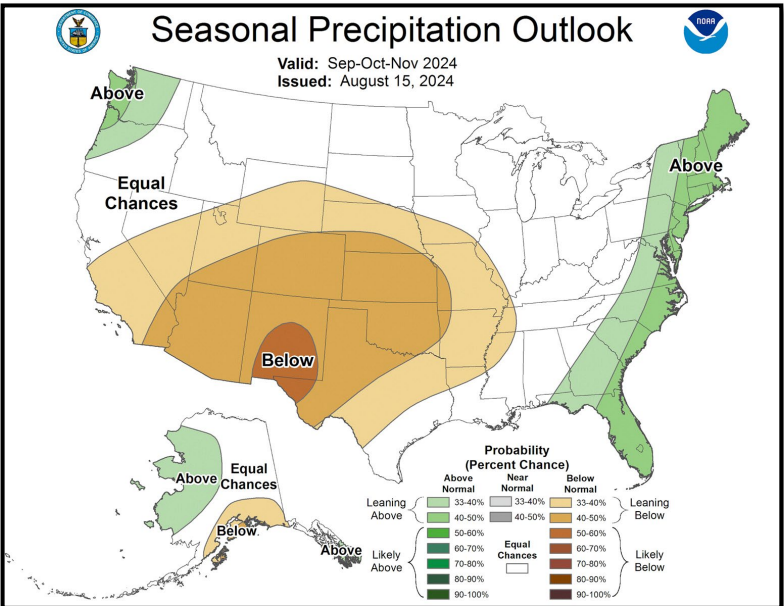


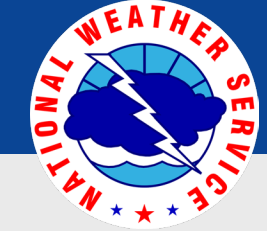
Three Months

## Seasonal Temperature Outlook



## Seasonal Precipitation Outlook





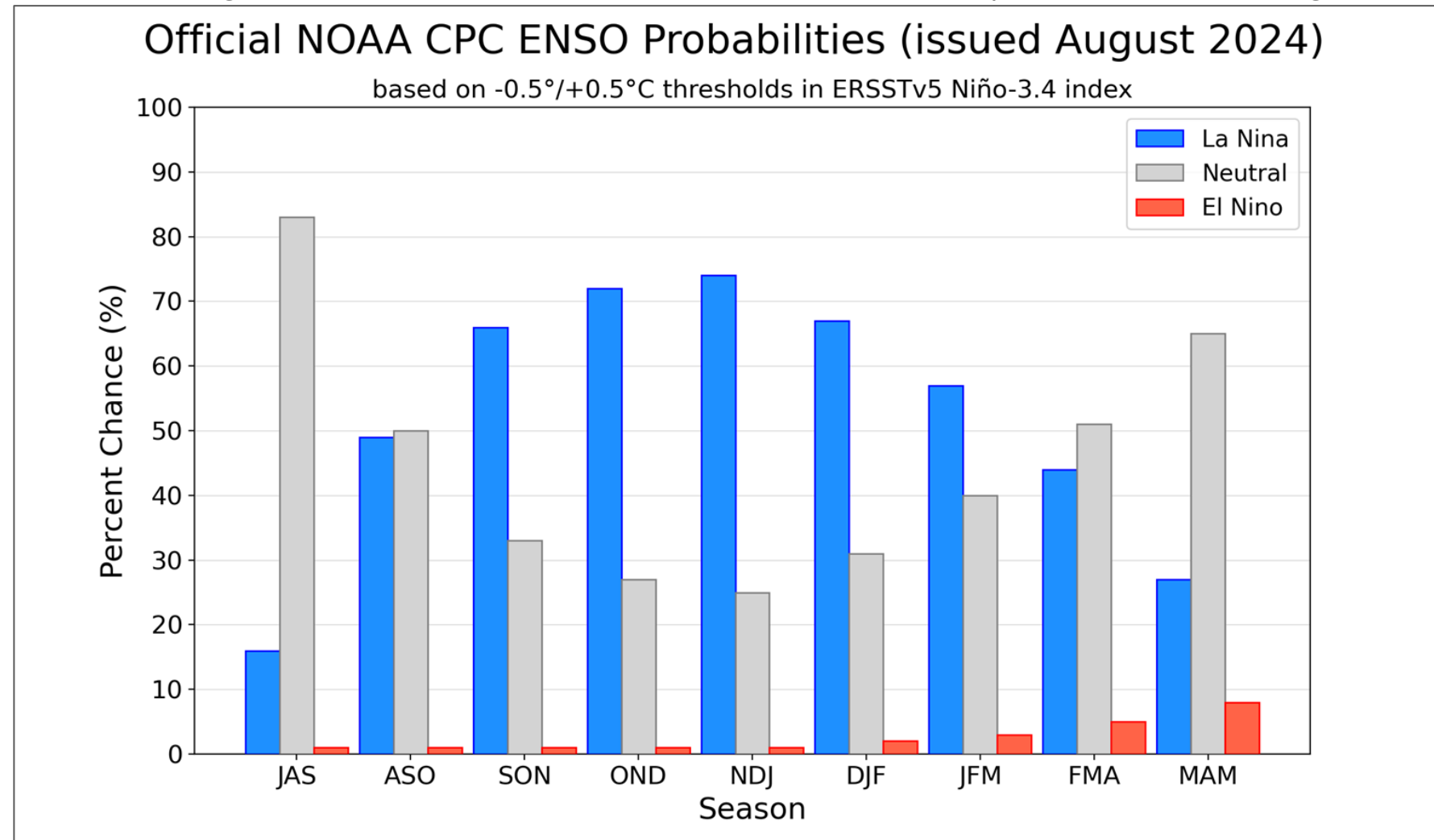
# ENSO Forecast

September 10, 2024  
11:31 AM

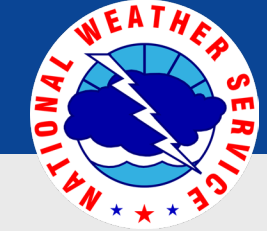
Courtesy of the Climate Prediction Center ([www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov))

## ENSO Alert System Status: **La Niña Watch**

**Synopsis:** ENSO-neutral is expected to continue for the next several months, with La Niña favored to emerge during September-November (66% chance) and persist through the Northern Hemisphere winter 2024-25 (74% chance during November-January).







# ENSO Forecast

Courtesy of NOAA's climate.gov

September 10, 2024  
11:31 AM

