



# C-W DMAG Update

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Duke Energy staff statistical approach based on several parameters (El Nino-Southern Oscillation (ENSO), Pacific Decadal Oscillation (PDO), North Atlantic Oscillation (NAO), Atlantic SST patterns). Looking at years that are good matches with these parameters. The maps are composites of the results.

Note: that the numerical scale on the figures below is confusing. The NOAA site used by our staff defines a standardized anomaly as the anomaly divided by the standard deviation.

Simply a wider range of color shows up so it's easier to see the trends. The take away is the drier trend going to above normal by September.

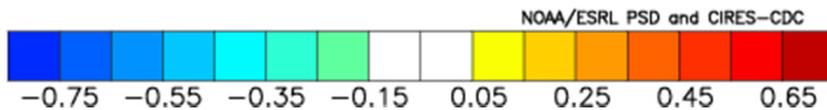
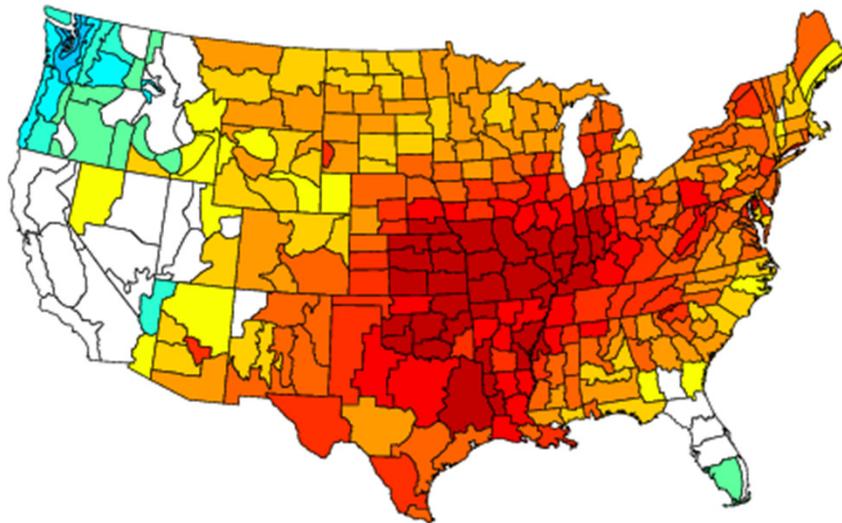
# Climate Index Expectations

- **AMO → Currently slightly +, working more +**
- **AO/NAO → Very negative in March...**
- **ENSO → Continued neutral**
- **PDO/PNA → Very influential over the winter but has neutralized slightly**
- + AMO tends to lead to warm but dry Southeast
- Leads to warmer spring/summer
- Typically leads to cool temps, especially late
- Tends to dominate when ENSO is neutral, warm early, normal late

# Analog Maps: Apr/May

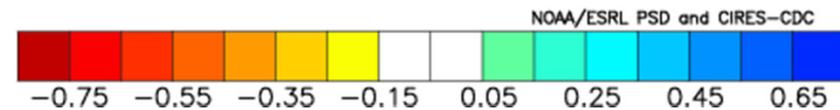
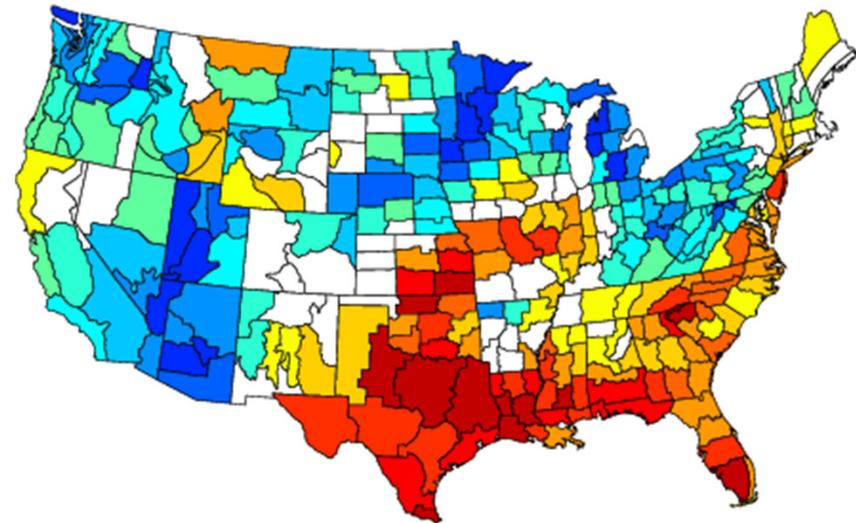
- Temperature

Composite Standardized Temperature Anomalies  
Apr to May 2001,2001,2001,1988,1988,2011,2011,2004,2005,2006  
Versus 1981–2010 Longterm Average



- Precipitation

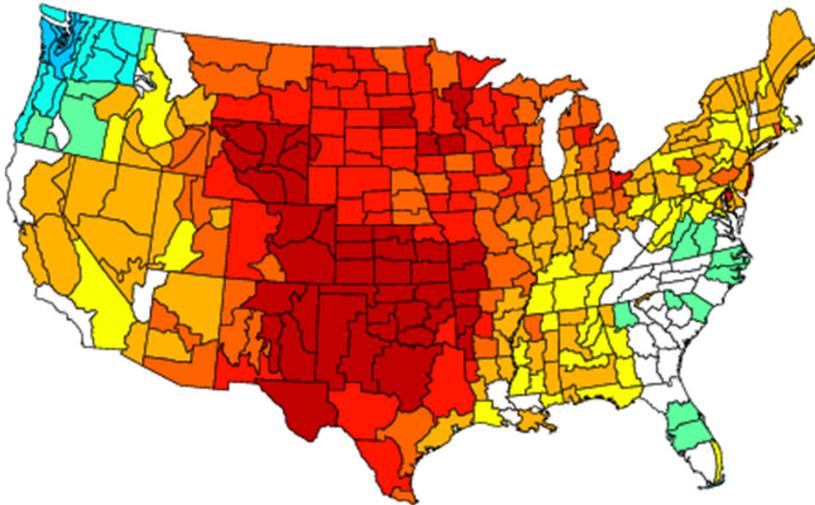
Composite Standardized Precipitation Anomalies  
Apr to May 2001,2001,2001,1988,1988,2011,2011,2004,2005,2006  
Versus 1981–2010 Longterm Average



# Analog Maps: Jun/Jul

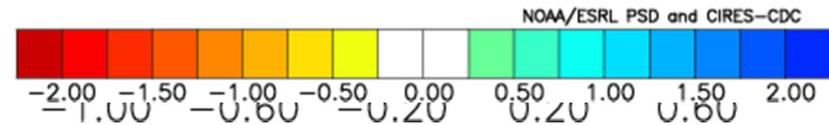
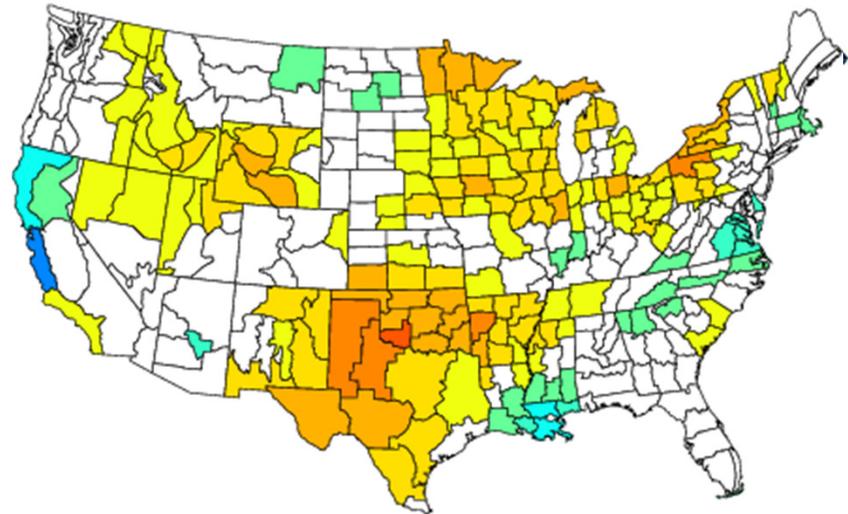
- Temperature

Composite Standardized Temperature Anomalies  
Jun to Jul 2001,2001,2001,1988,1988,2011,2011,2004,2005,2006  
Versus 1981–2010 Longterm Average



- Precipitation

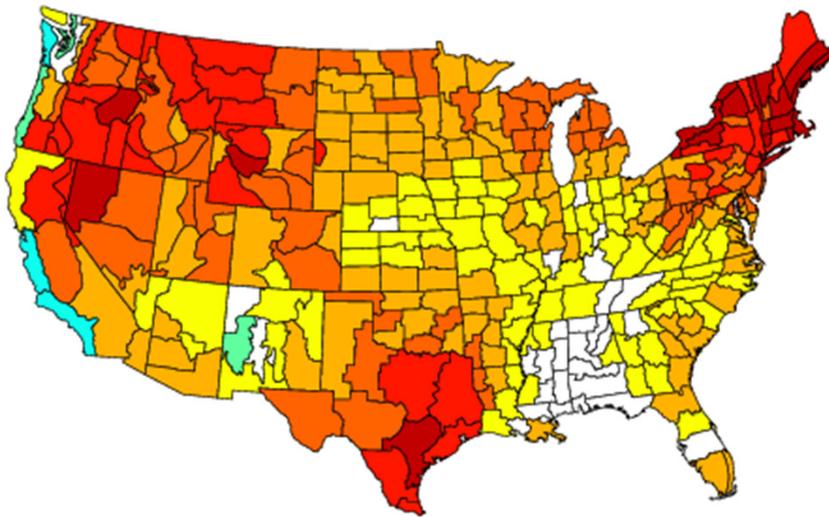
Composite Standardized Precipitation Anomalies  
Jun to Jul 2001,2001,2001,1988,1988,2011,2011,2004,2005,2006  
Versus 1981–2010 Longterm Average



# Analog Maps: Aug/Sep

- Temperature

Composite Standardized Temperature Anomalies  
Aug to Sep 2001,2001,2001,1988,1988,2011,2011,2004,2005,2006  
Versus 1981–2010 Longterm Average



- Precipitation

Composite Standardized Precipitation Anomalies  
Aug to Sep 2001,2001,2001,1988,1988,2011,2011,2004,2005,2006  
Versus 1981–2010 Longterm Average

