# Massachusetts Drought Task Force Meeting NWS Update

#### **National Weather Service**

### Thursday August 11<sup>th</sup>, 2016

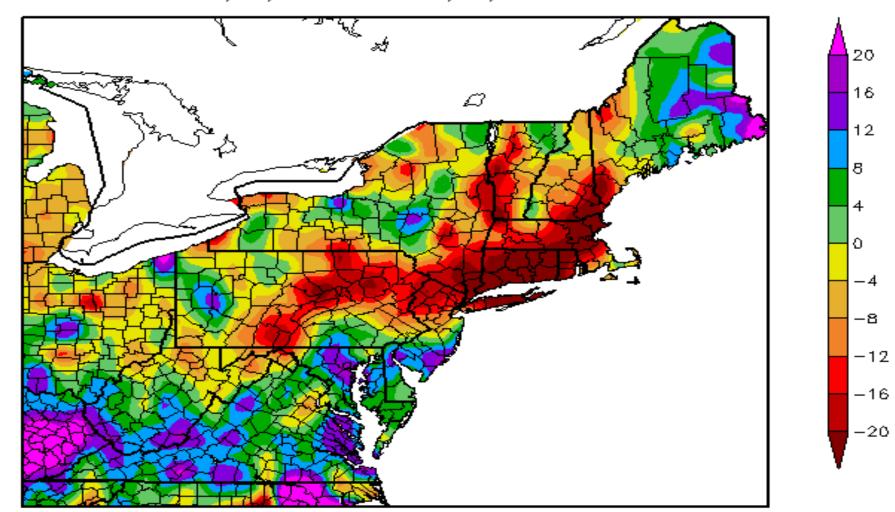
Alan Dunham, Hydrologic Program Leader

National Weather Service Boston, MA



## Longer Term Deficits 36 Months

Departure from Normal Precipitation (in) 8/9/2013 - 8/8/2016



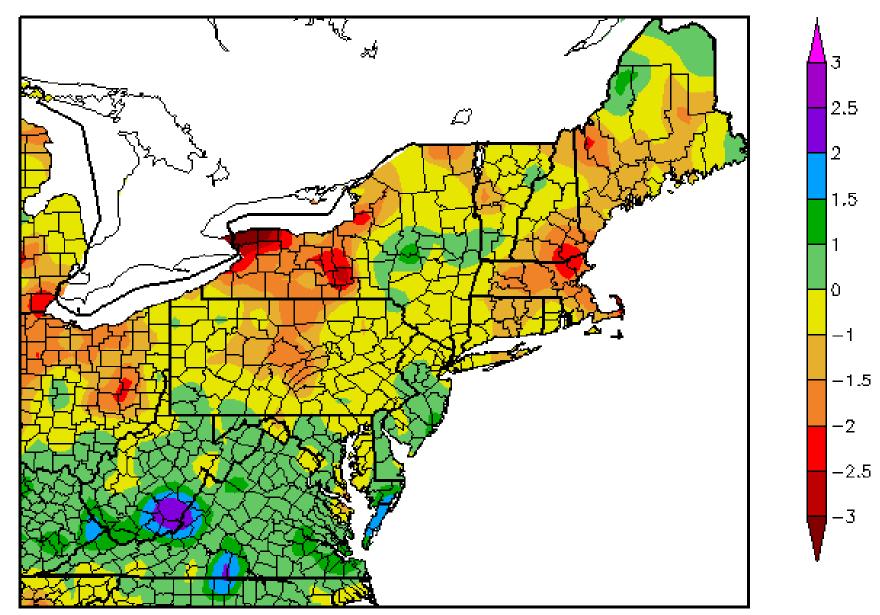
Generated 8/9/2016 at HPRCC using provisional data.

Regional Climate Centers



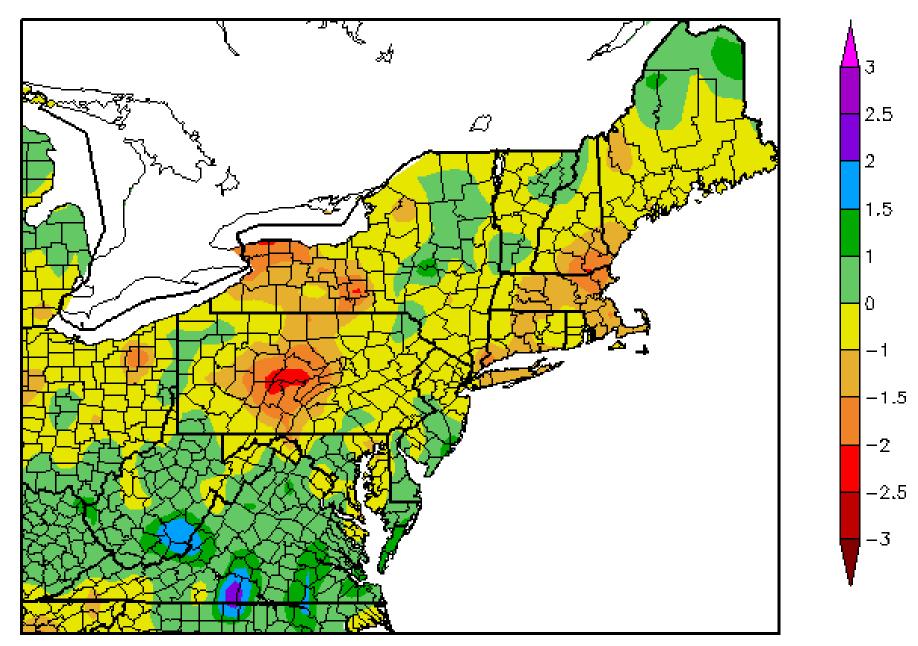
## 3 Month SPI through 08/9/16

90 Day SPI 5/12/2016 - 8/9/2016



### 6 Month SPI through 08/9/16

6 Month SPI 2/10/2016 - 8/9/2016

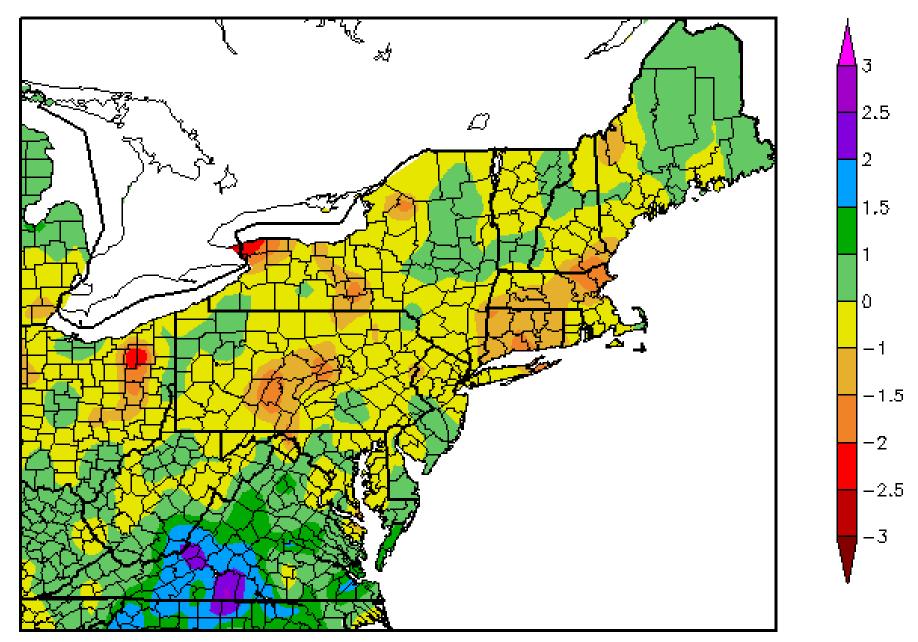


Generated 8/10/2016 at HPRCC using provisional data.

Regional Climate Centers

### 12 Month SPI through 08/9/16

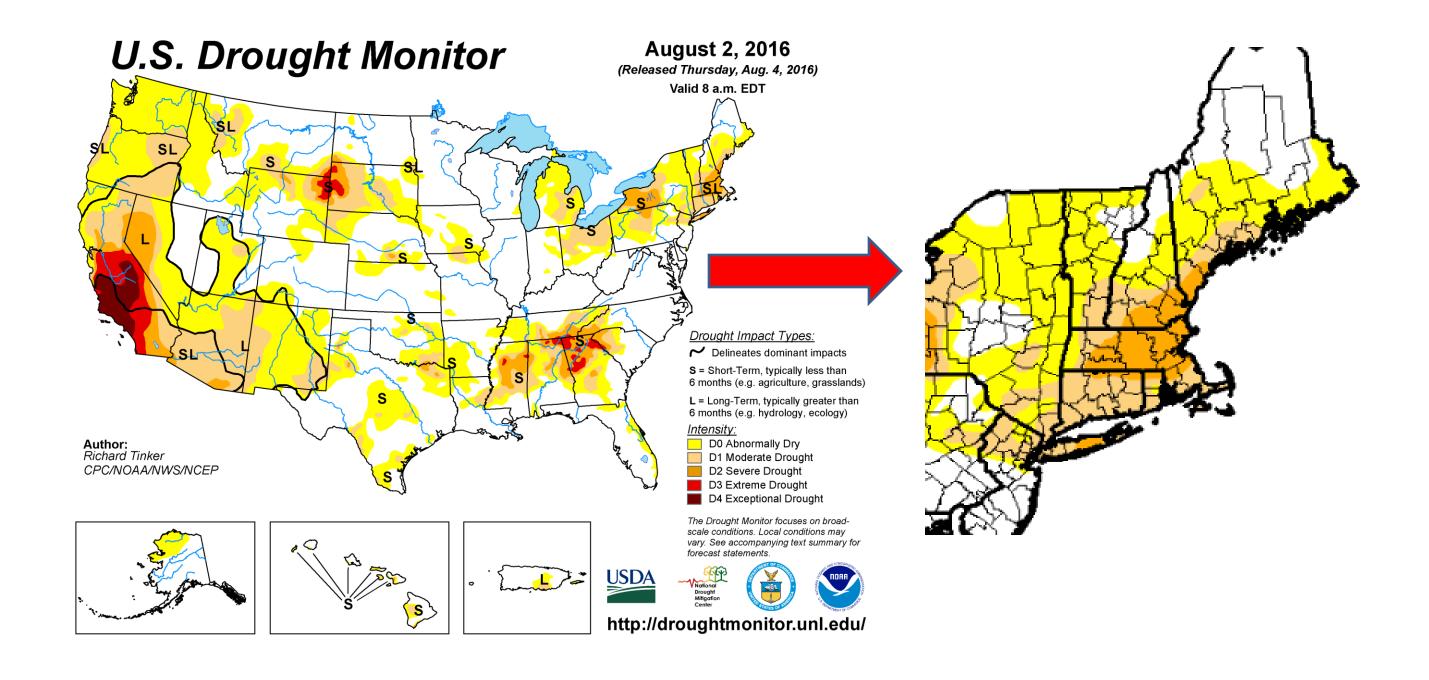
12 Month SPI 8/10/2015 - 8/9/2016



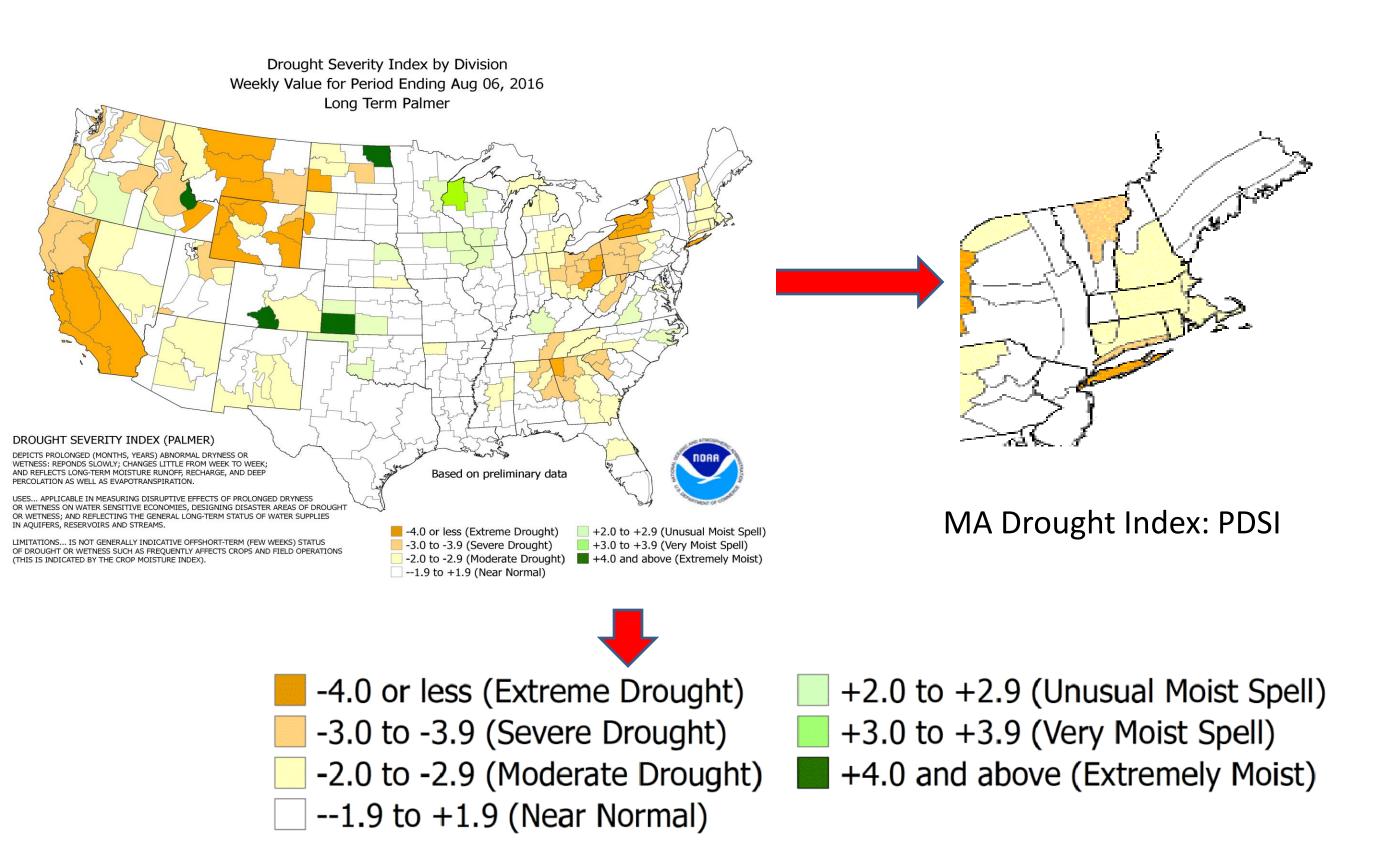
Generated 8/10/2016 at HPRCC using provisional data.

Regional Climate Centers

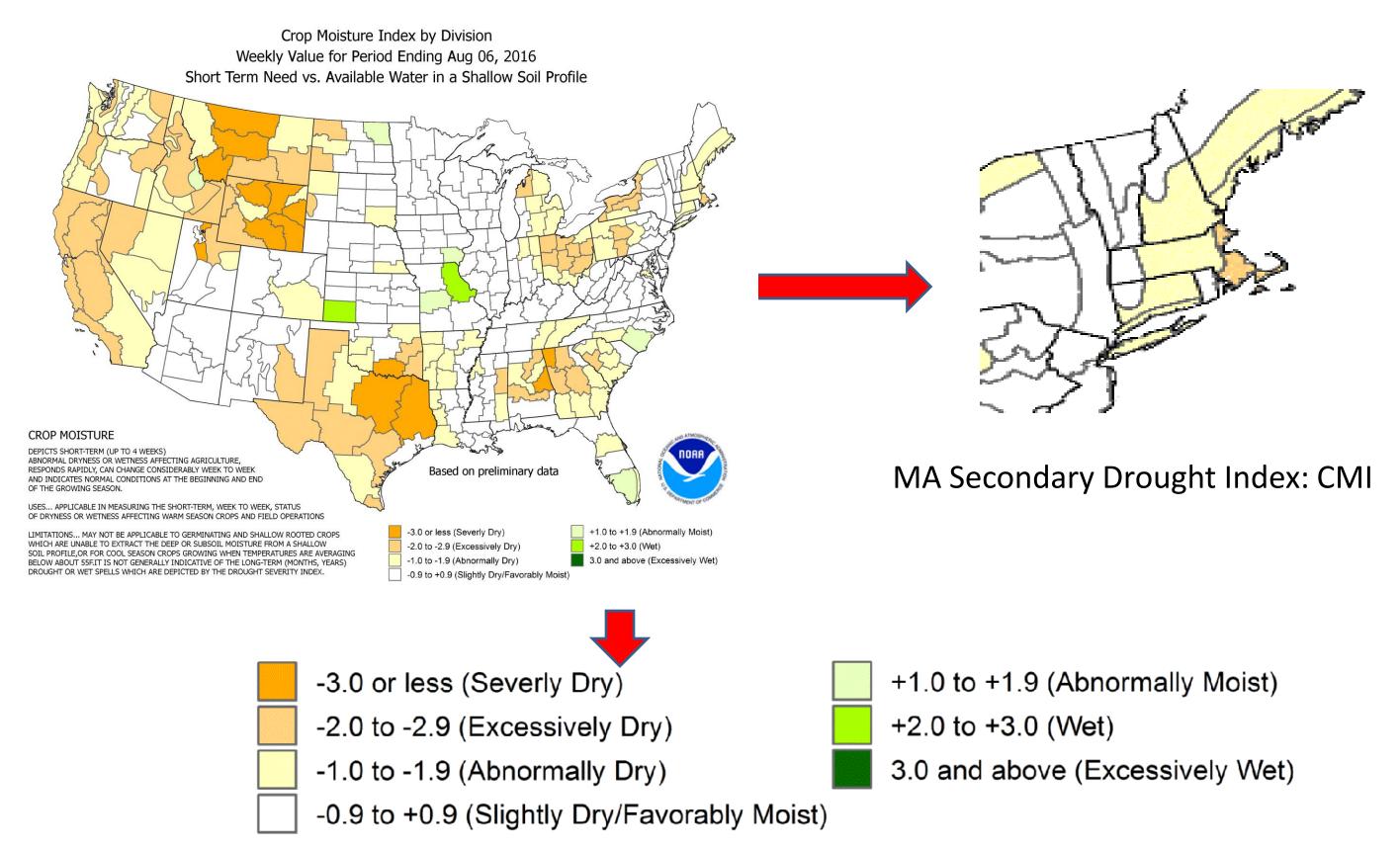
## U.S. Drought Monitor 08/02/16



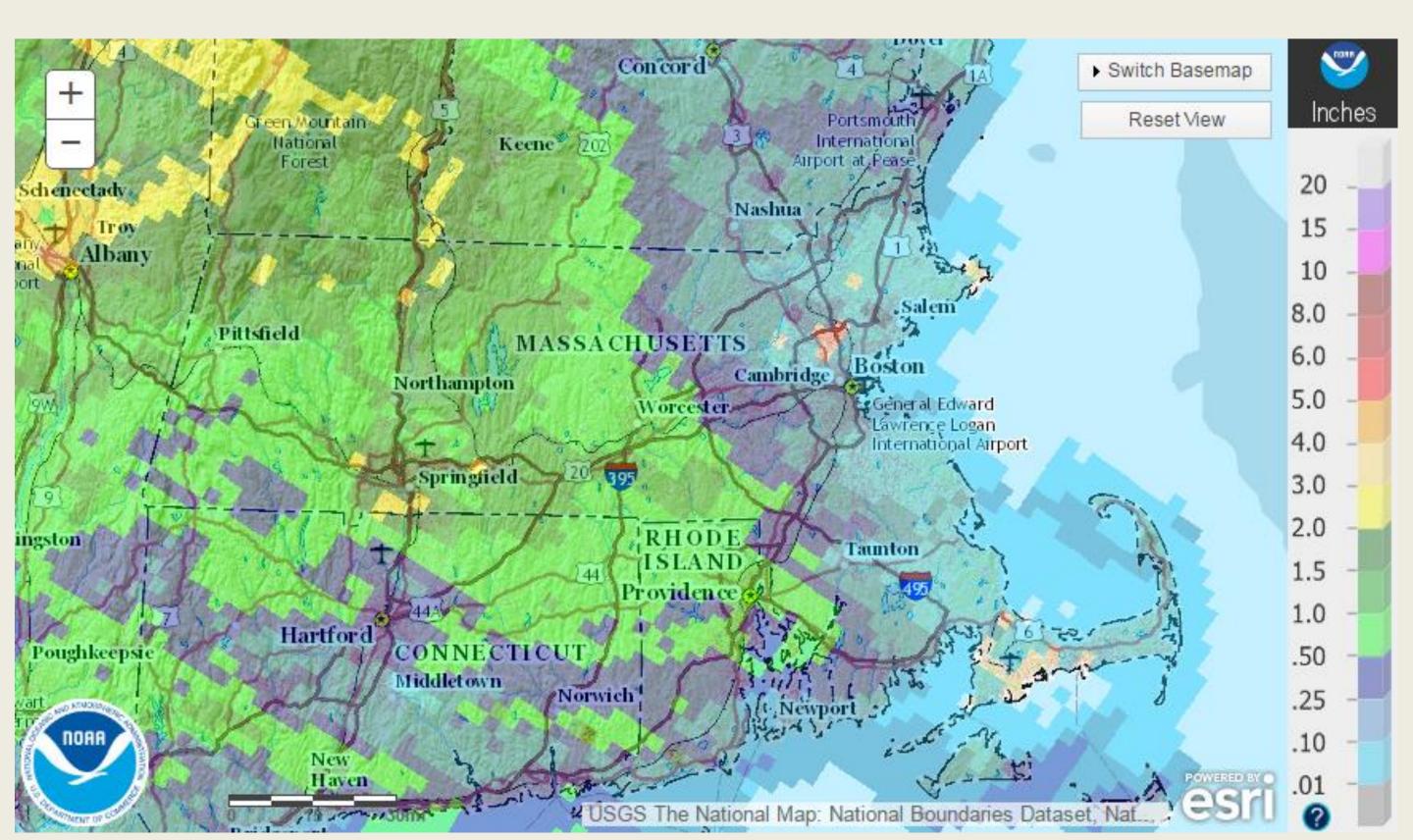
#### Palmer Drought Severity Index (PDSI)- Updated 8/06/16



#### Crop Moisture Index (CMI)- Updated 8/06/16

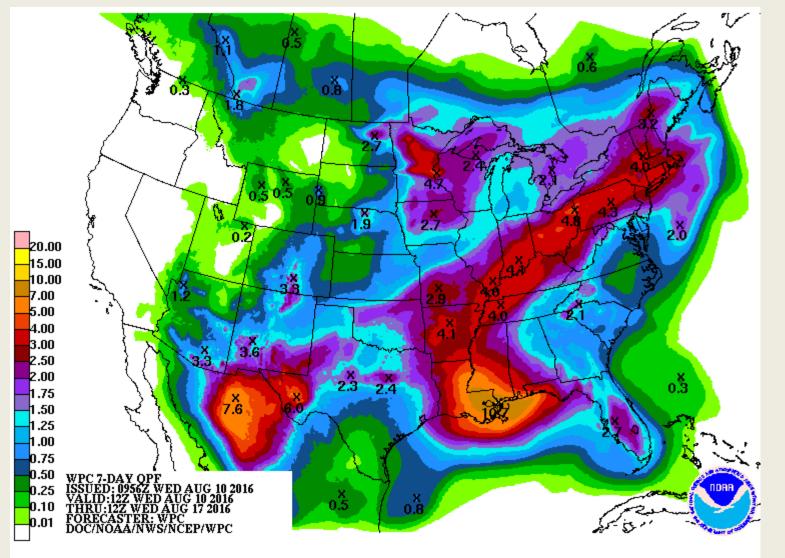


#### August Month-to-Date Rainfall (Thru 8 am 8/10)



### Forecast for the Next 7 Days

#### Rainfall Forecast thru 8 AM Aug 17<sup>th</sup>

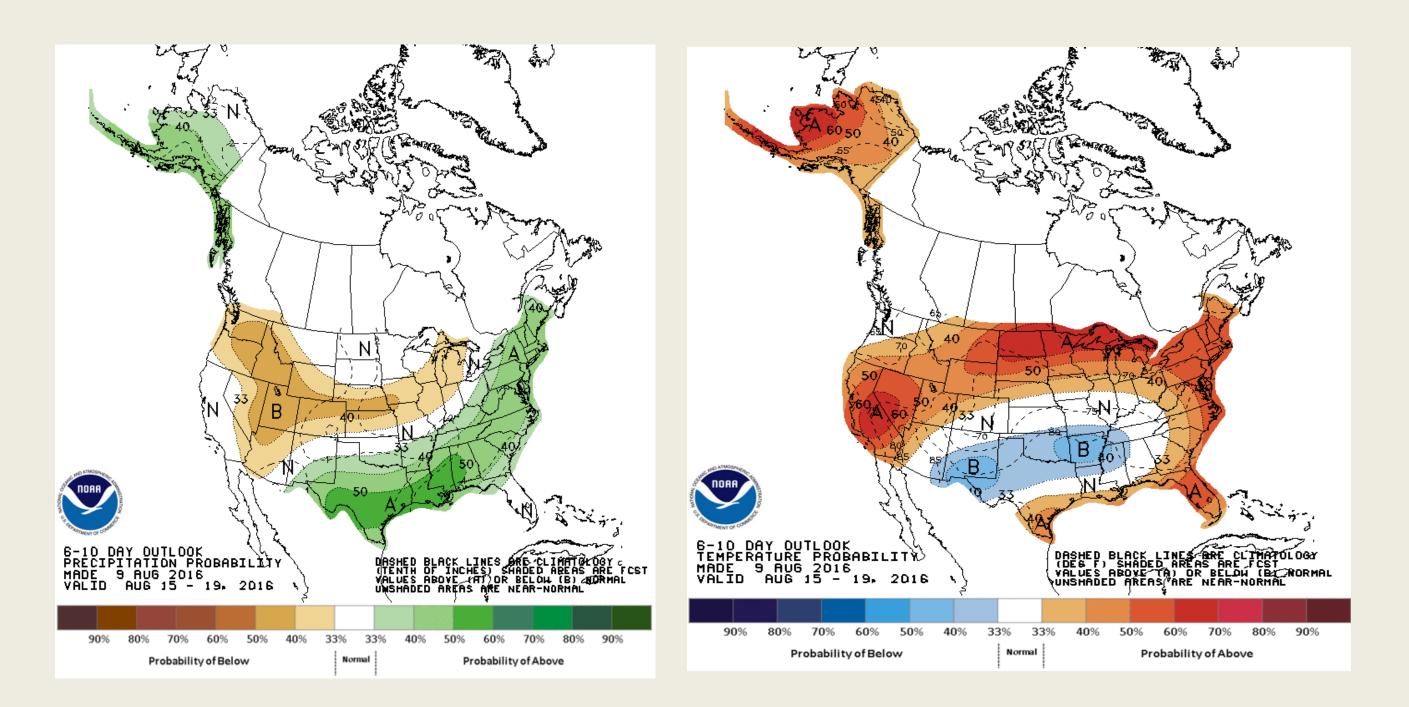


Predominant Pattern:

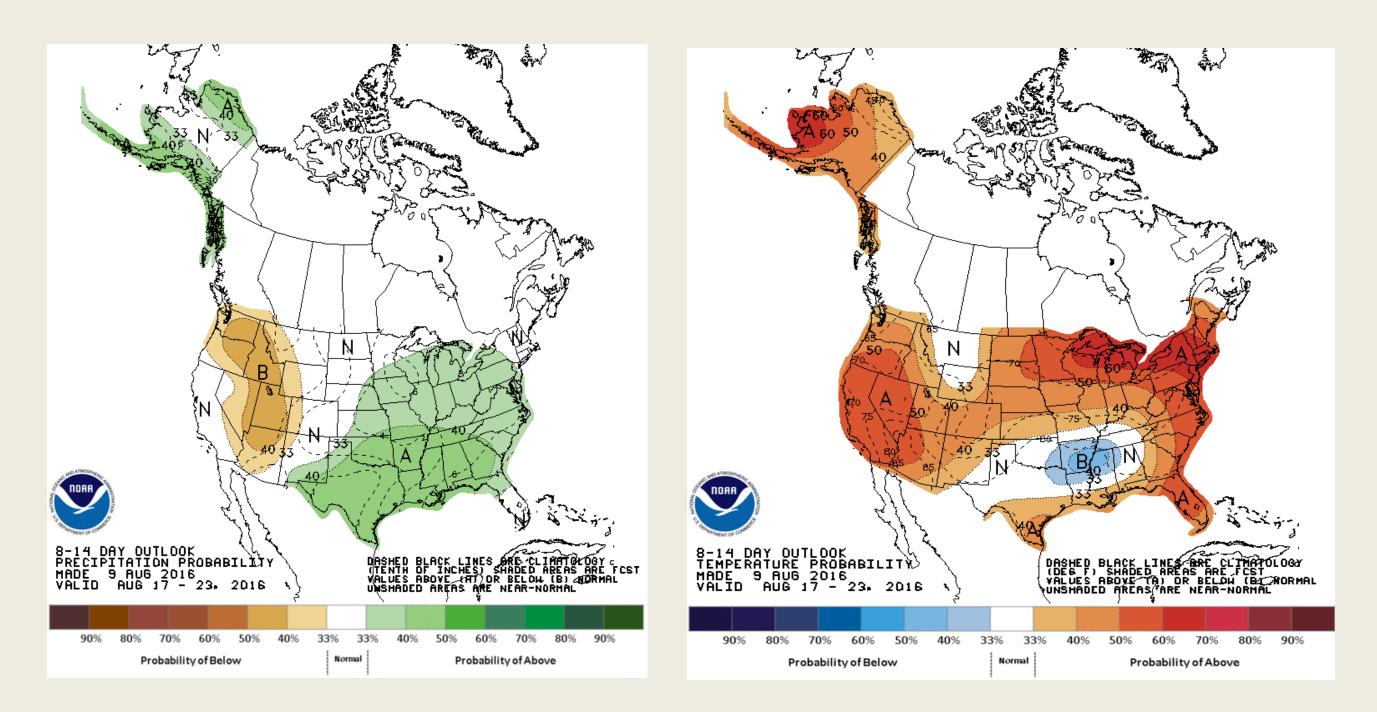
- Slow moving front drops down across the region to bring scattered showers/t-storms
- Rainfall above normal through the weekend
- Temps above normal through Saturday turning cooler Sunday into early next week
  - Lows in the mid 60s/ mid70s
  - Highs in the mid 80s/mid 90s through Sat. In the 70s Sun into Tues.



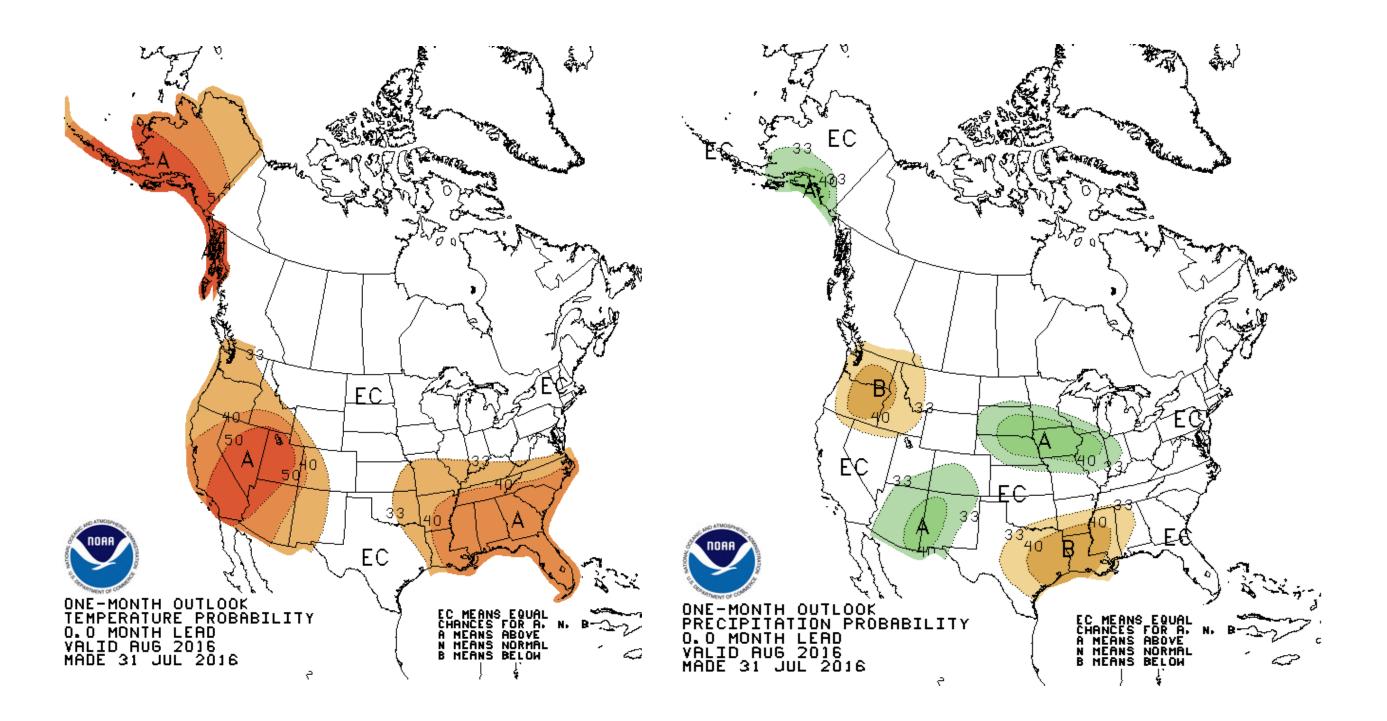
### Outlook: August 15<sup>th</sup>-19<sup>th</sup>



### Outlook: August 17<sup>th</sup>-23<sup>rd</sup>



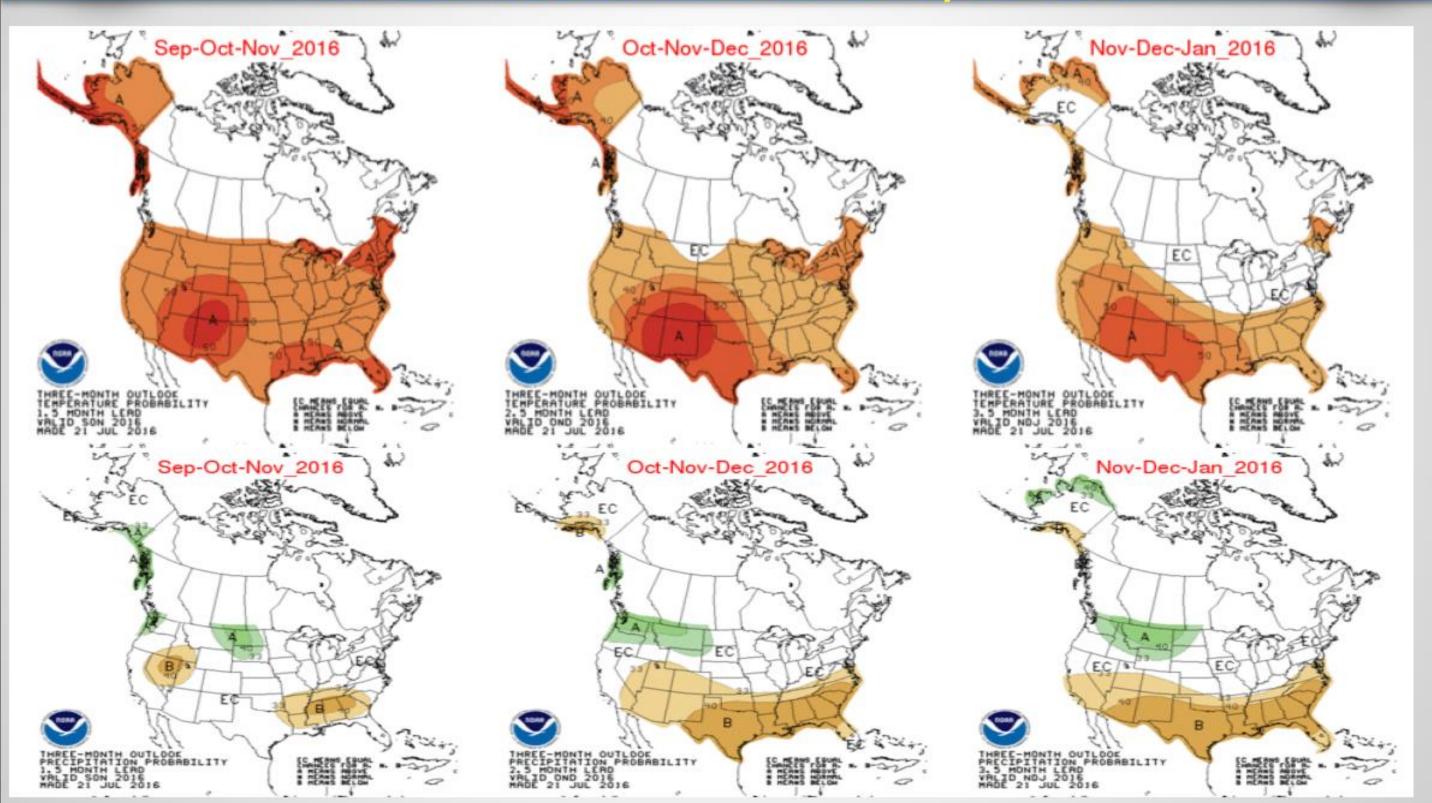
### CPC 1 Month Outlook for Aug





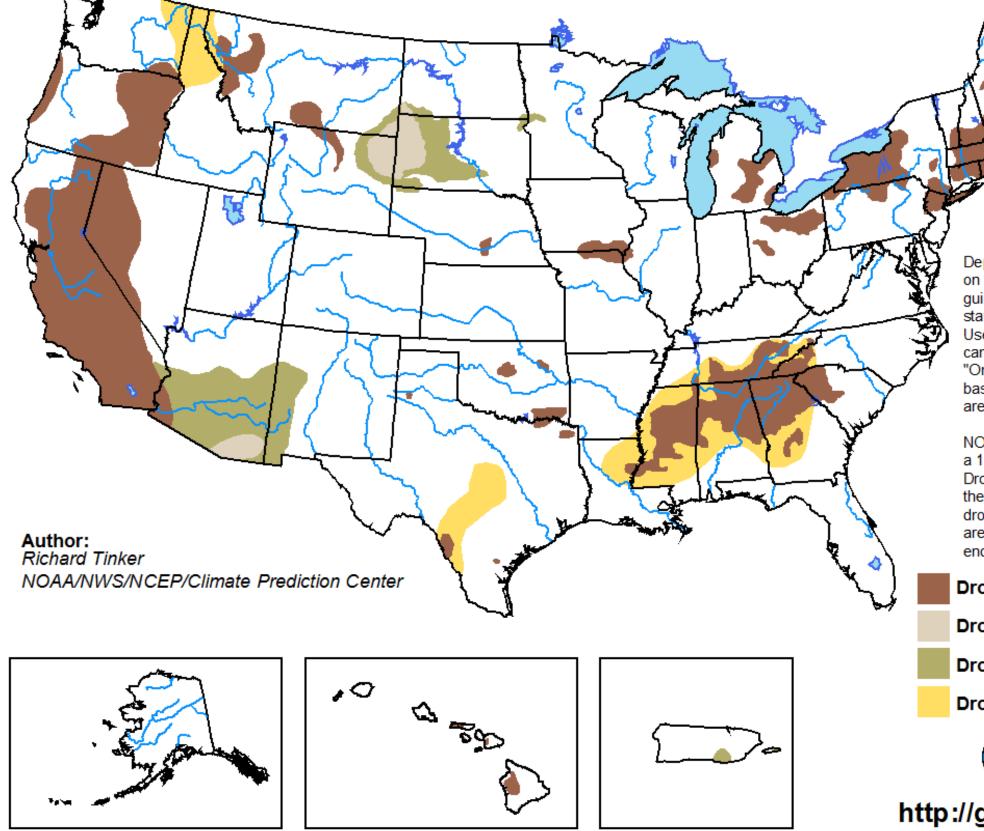
### CPC -- 3-monthly Outlooks Warm with Normal Precipitation







Valid for July 21 - October 31, 2016 Released July 21, 2016



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

#### Drought persists

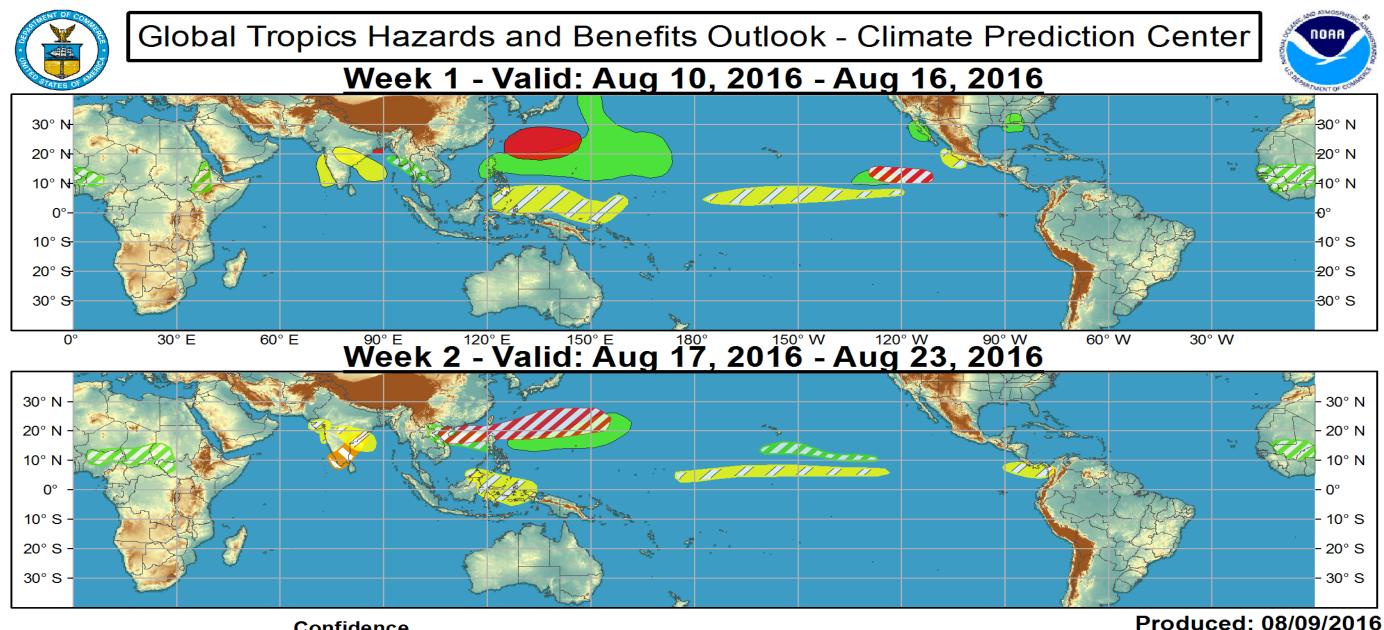
**Drought remains but improves** 

**Drought removal likely** 

**Drought development likely** 



http://go.usa.gov/3eZ73



#### **Confidence** High Moderate

**Tropical Cyclone Formation** 

Above-average rainfall

Below-average rainfall

Above-normal temperatures

**Below-normal temperatures** 

Weekly total rainfall in the upper third of the historical range.

Weekly total rainfall in the lower third of the historical range.

7-day mean temperatures in the upper third of the historical range.

Development of a tropical cyclone (tropical depression - TD, or greater strength).

7-day mean temperatures in the lower third of the historical range.

Product is updated once per week, except from 6/1 - 11/30 for the region from 120E to 0, 0 to 40N. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.



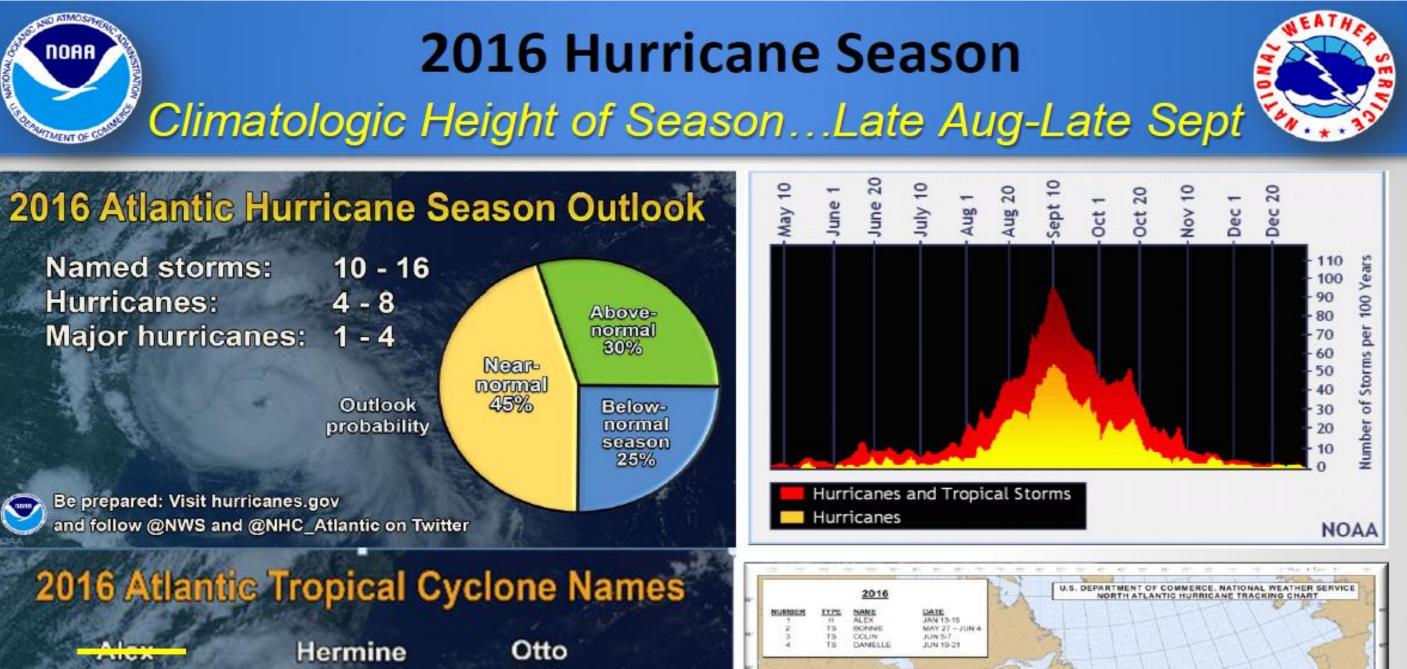








Forecaster: Rosencrans



Bonnie Colin Danielle Earl Fiona Gaston

Be prepared: Visit hurricanes gov

and follow @NWS and @NHC\_Atlantic on Twitter

Hermine lan Julia Karl Lisa Matthew Nicole

Otto Paula Richard Shary Tobias Virginie Walter

