# Massachusetts Drought Task Force Meeting NWS Update

**National Weather Service** 

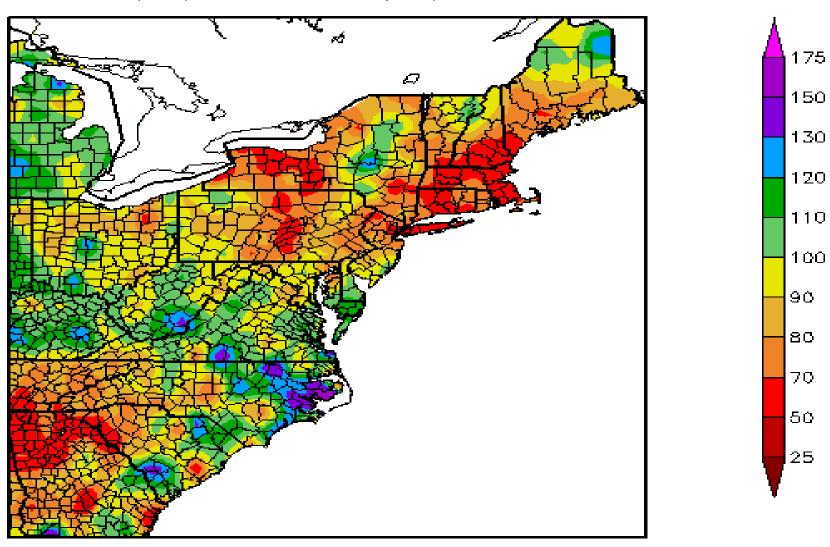
Thursday September 9<sup>th</sup>, 2016

Alan Dunham, Hydrologic Program Leader



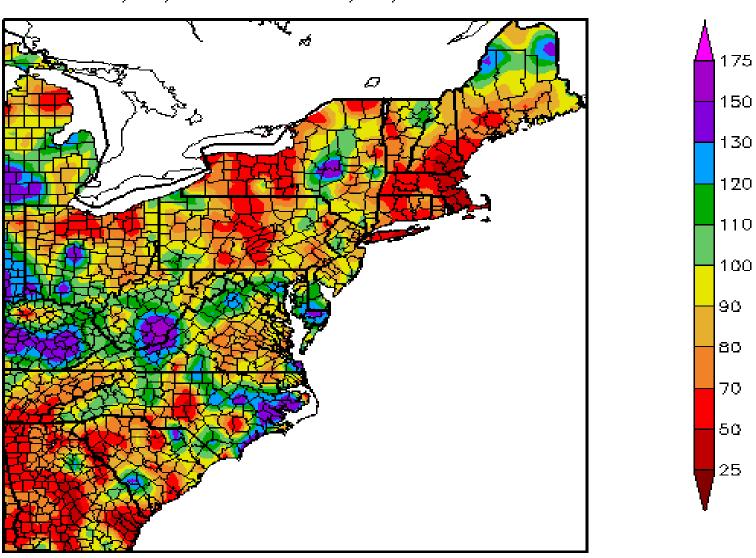
## 6 Month Percent of Normal

Percent of Normal Precipitation (%)3/6/2016 - 9/5/2016



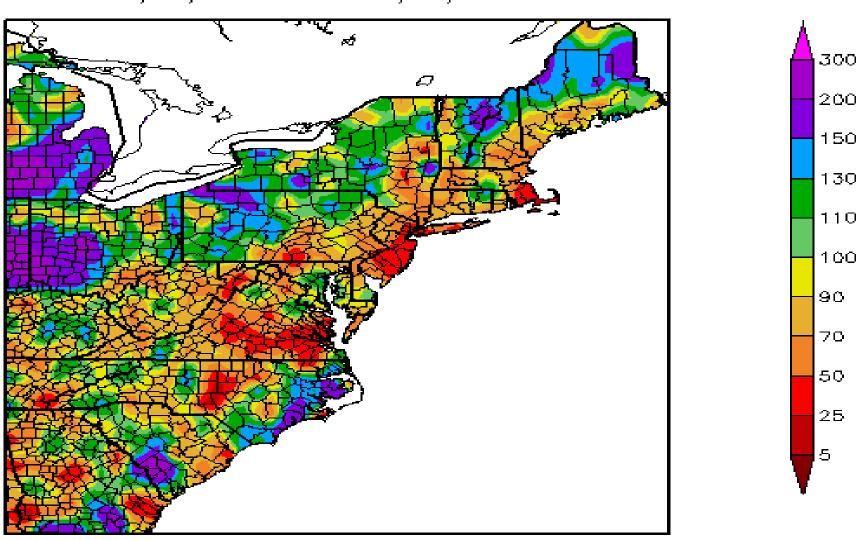
# 90 day Percent of Normal

Percent of Normal Precipitation (%)6/8/2016 - 9/5/2016



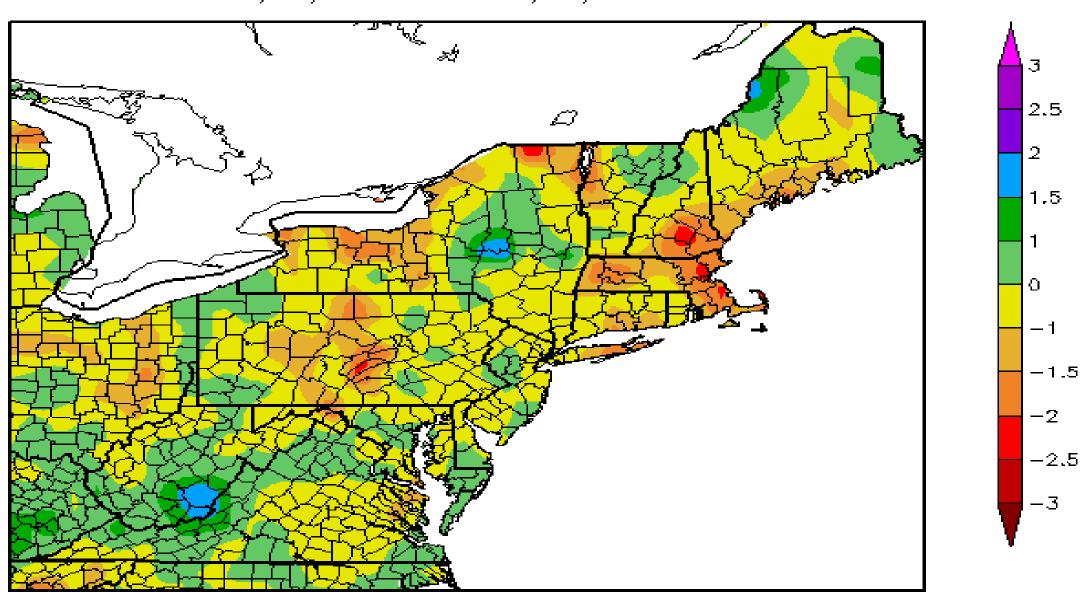
# 30 Day Percent of Normal

Percent of Normal Precipitation (%)8/7/2016 - 9/5/2016



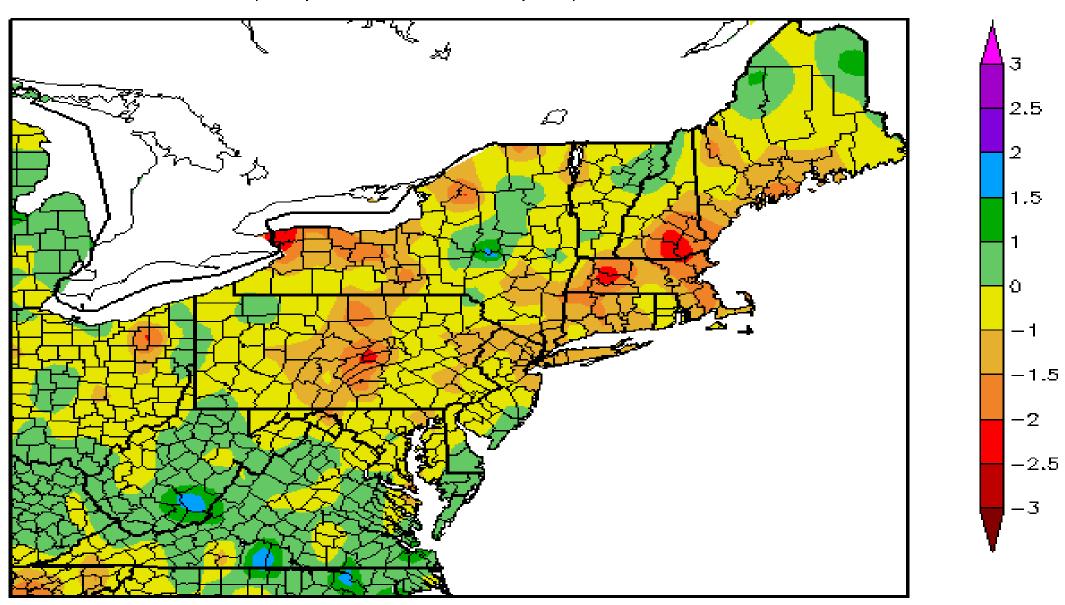
# 3 Month SPI through 09/9/16

90 Day SPI 6/9/2016 - 9/6/2016



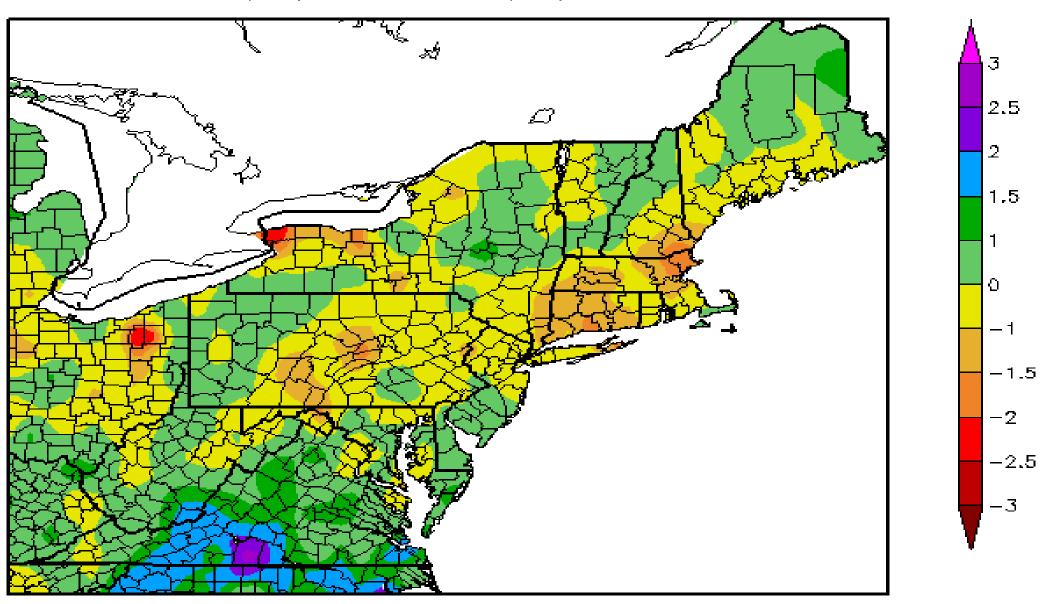
## 6 Month SPI through 09/6/16

6 Month SPI 3/7/2016 - 9/6/2016

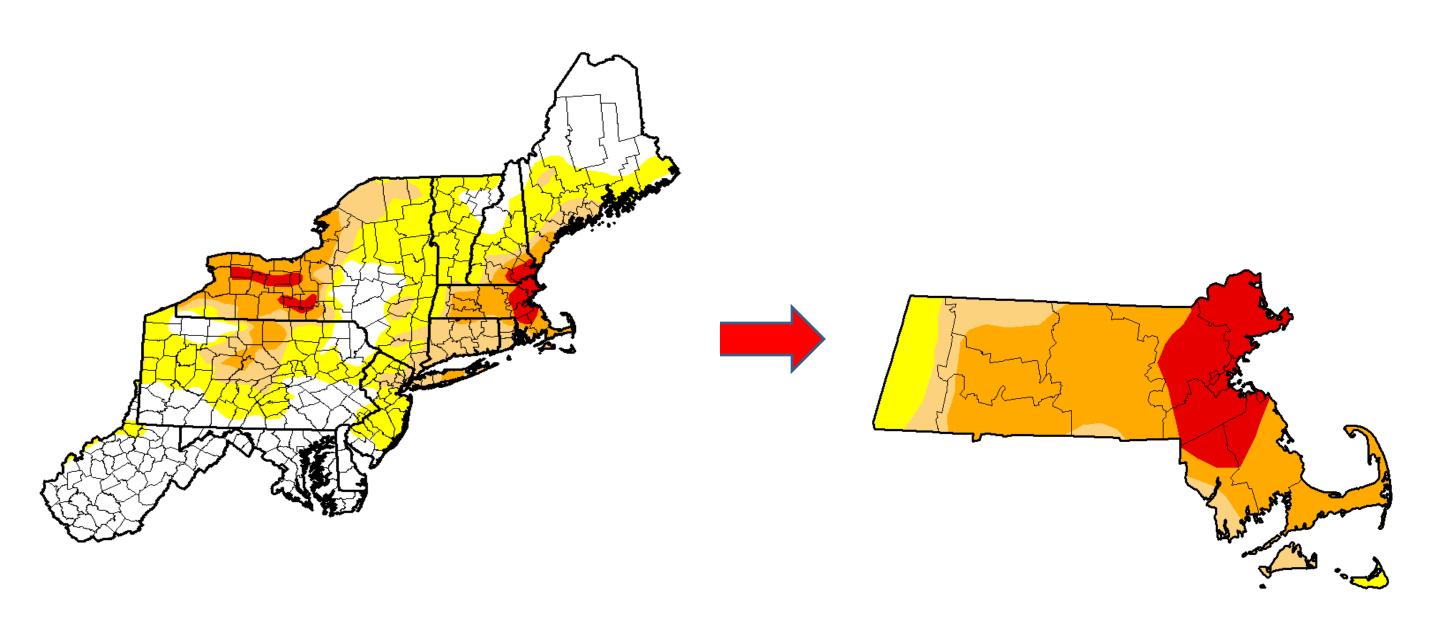


## 12 Month SPI through 09/6/16

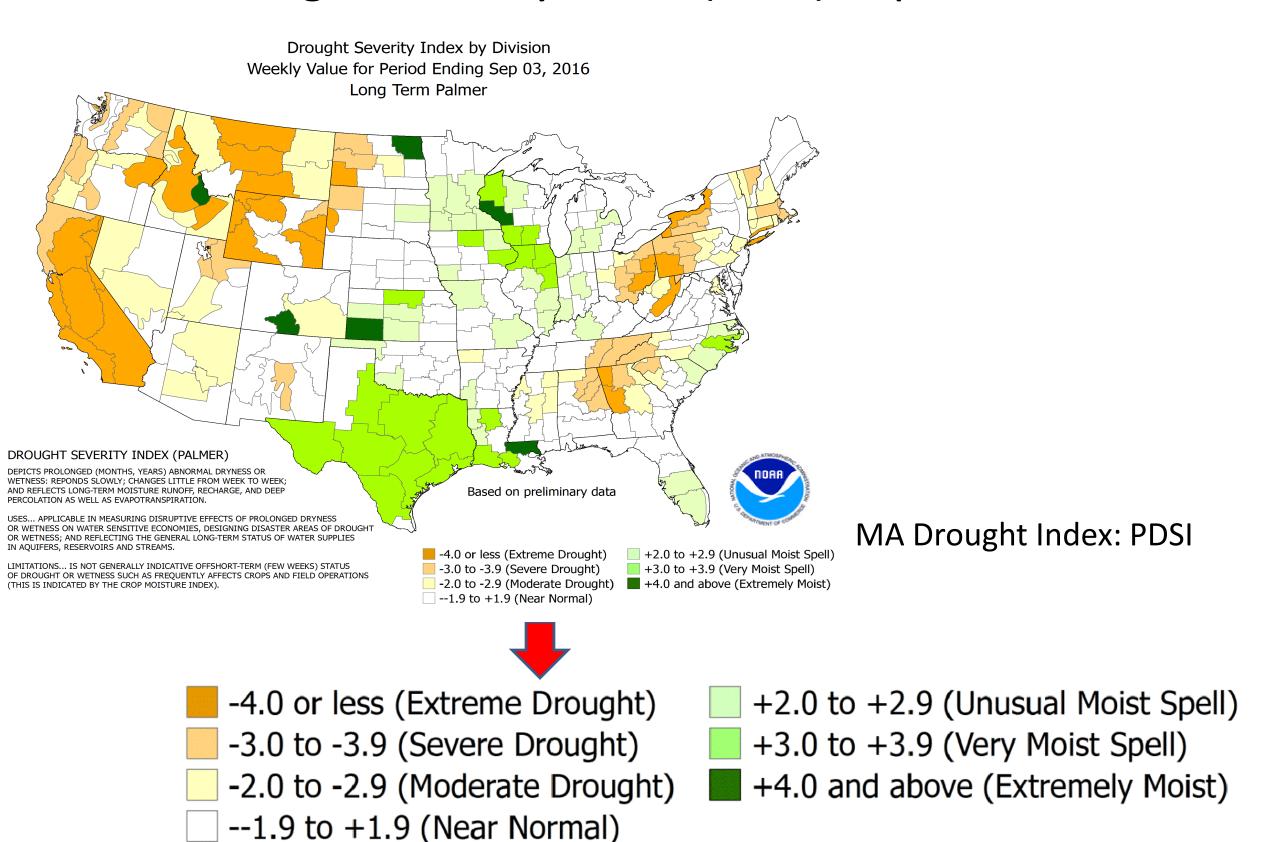
12 Month SPI 9/7/2015 - 9/6/2016



# U.S. Drought Monitor 08/30/16

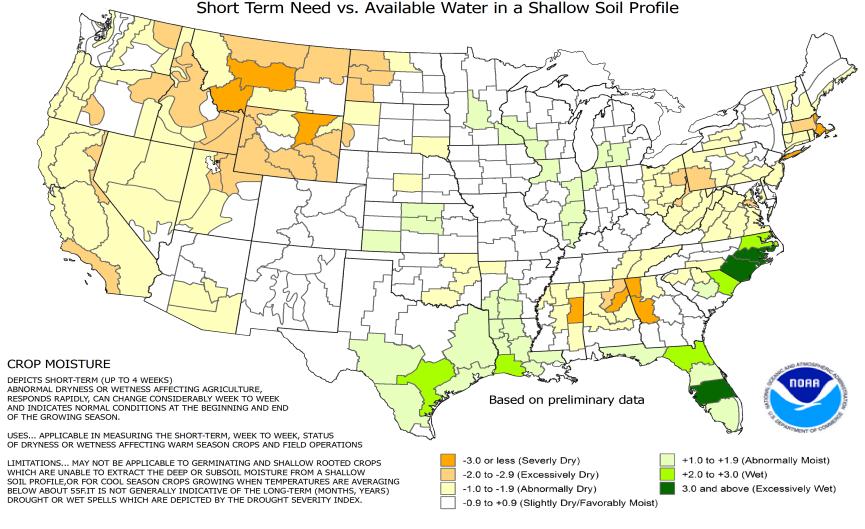


### Palmer Drought Severity Index (PDSI)- Updated 9/03/16

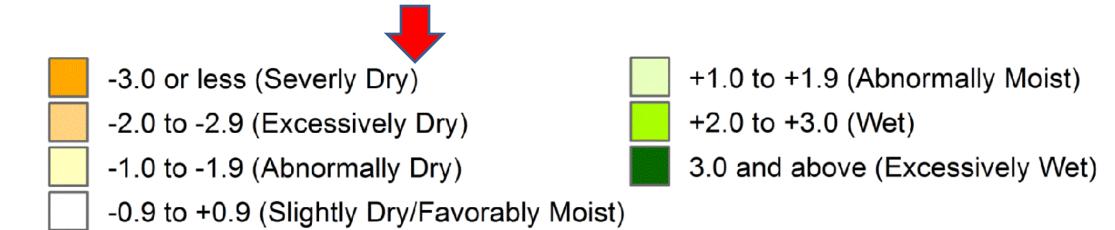


### Crop Moisture Index (CMI)- Updated 9/03/16

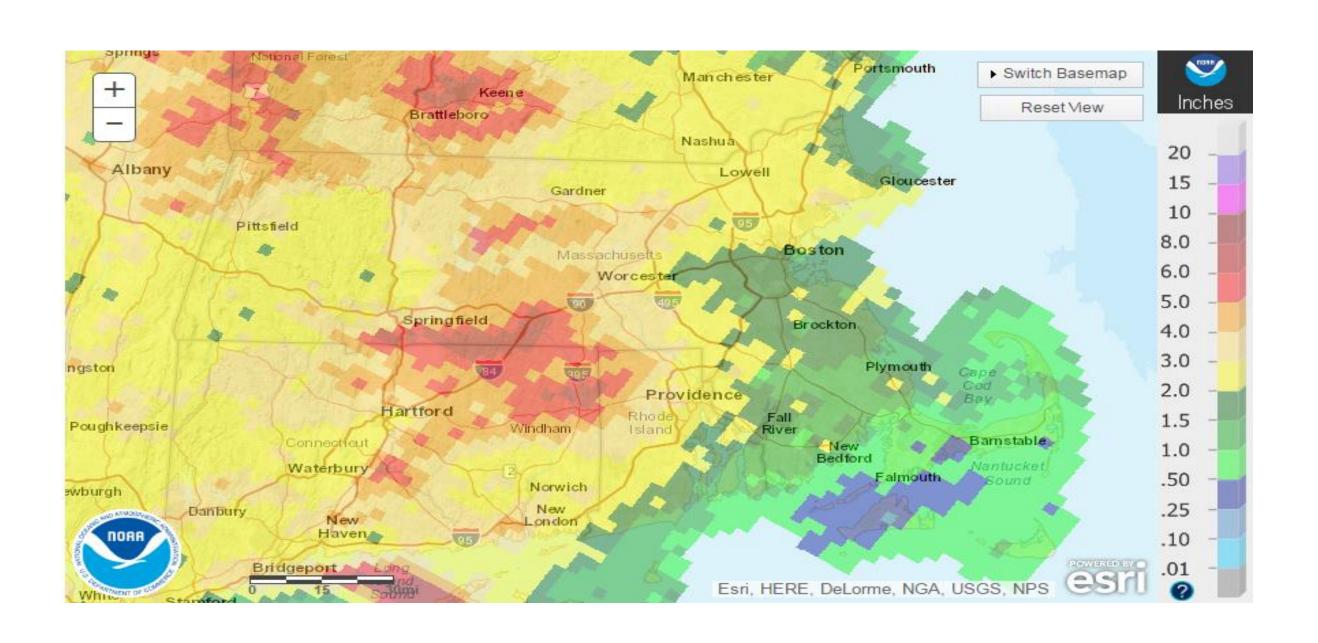
Crop Moisture Index by Division
Weekly Value for Period Ending Sep 03, 2016



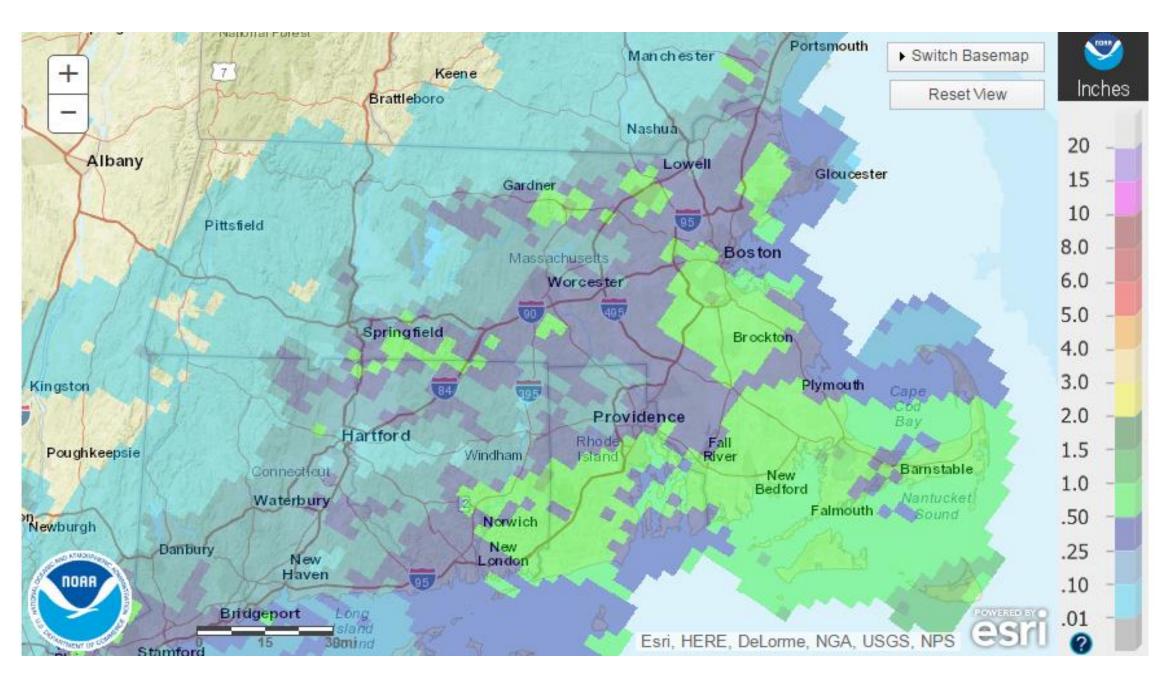
MA Secondary Drought Index: CMI



# August 2016 Rainfall Using Radar and Real-Time Rain Gage Data

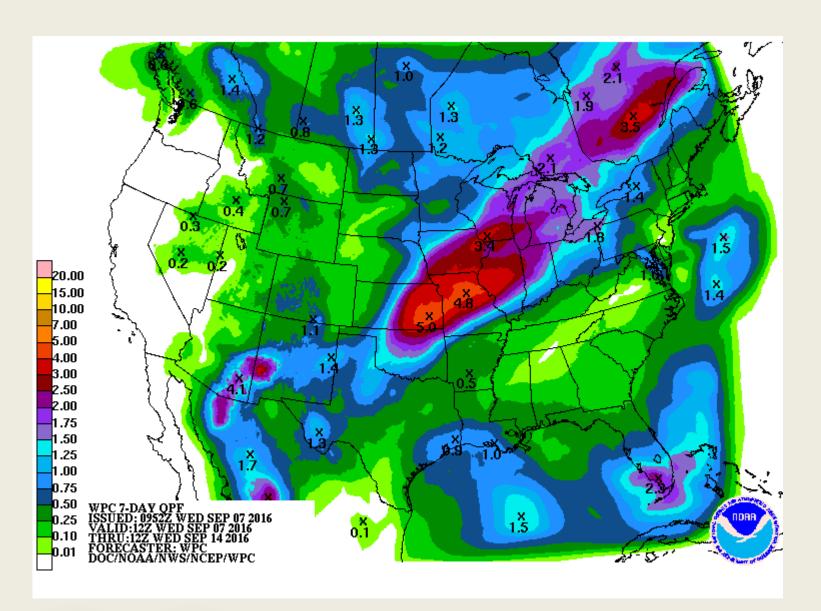


# September Month-to-Date Rainfall Using Radar and Real-Time Gage Data



## Forecast for the Next 7 Days

#### Rainfall Forecast thru 8 AM Sep 14<sup>th</sup>



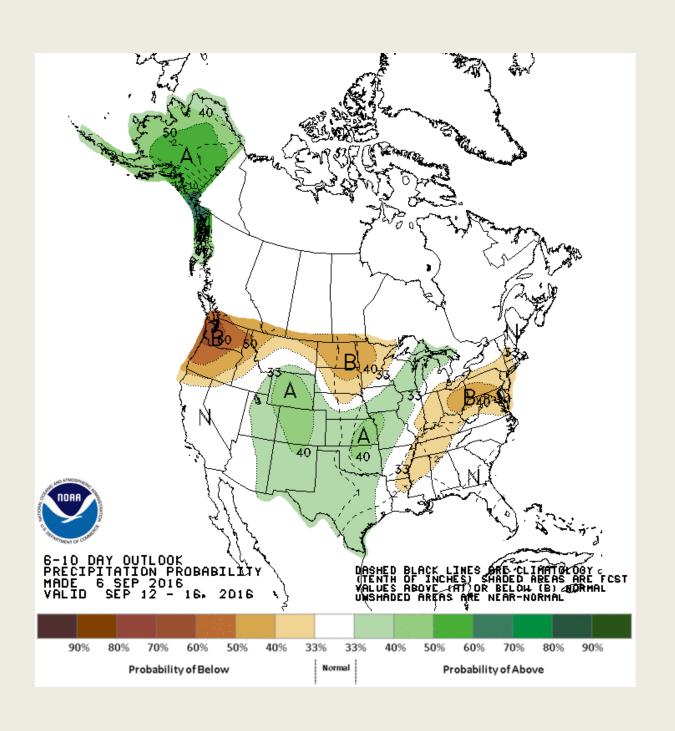
#### **Predominant Pattern:**

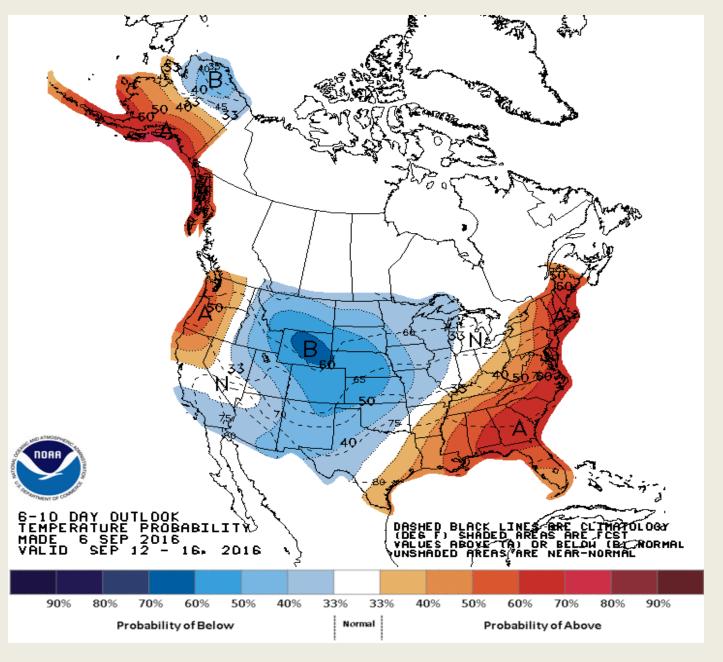
- Remnants of Hermine keep chance of showers Thursday
- Cold front brings showers Sat night and Sun. "Potential" of widespread rain with heavier embedded showers
- High pressure with dry conditions Sun night through mid week.



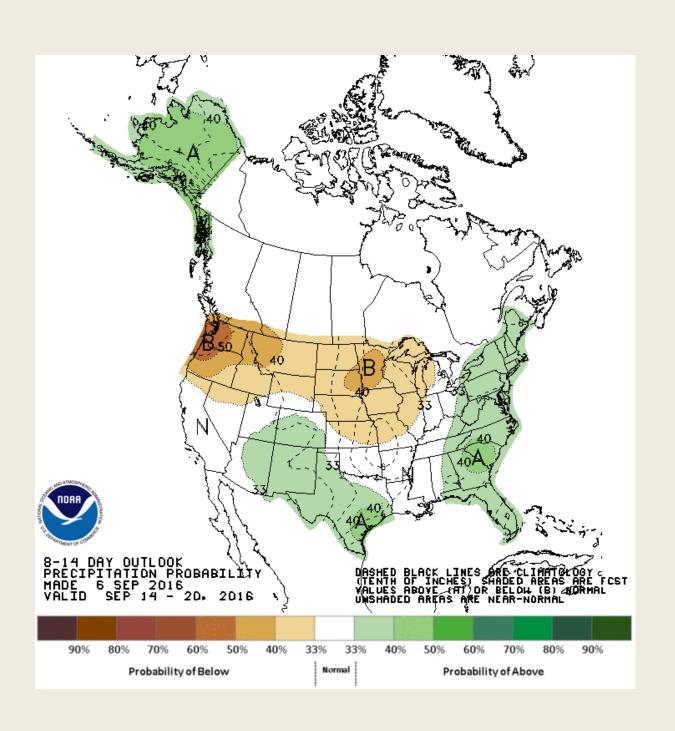


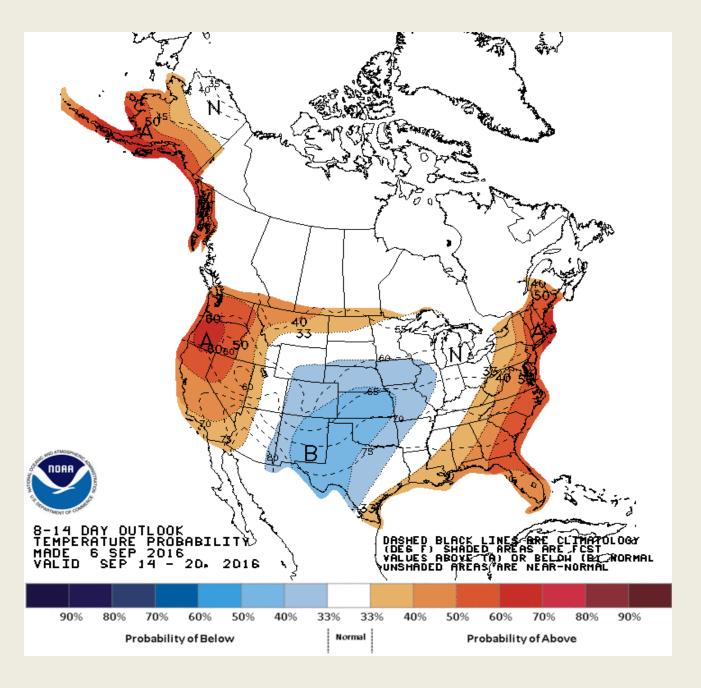
# Outlook: September 12th-16th



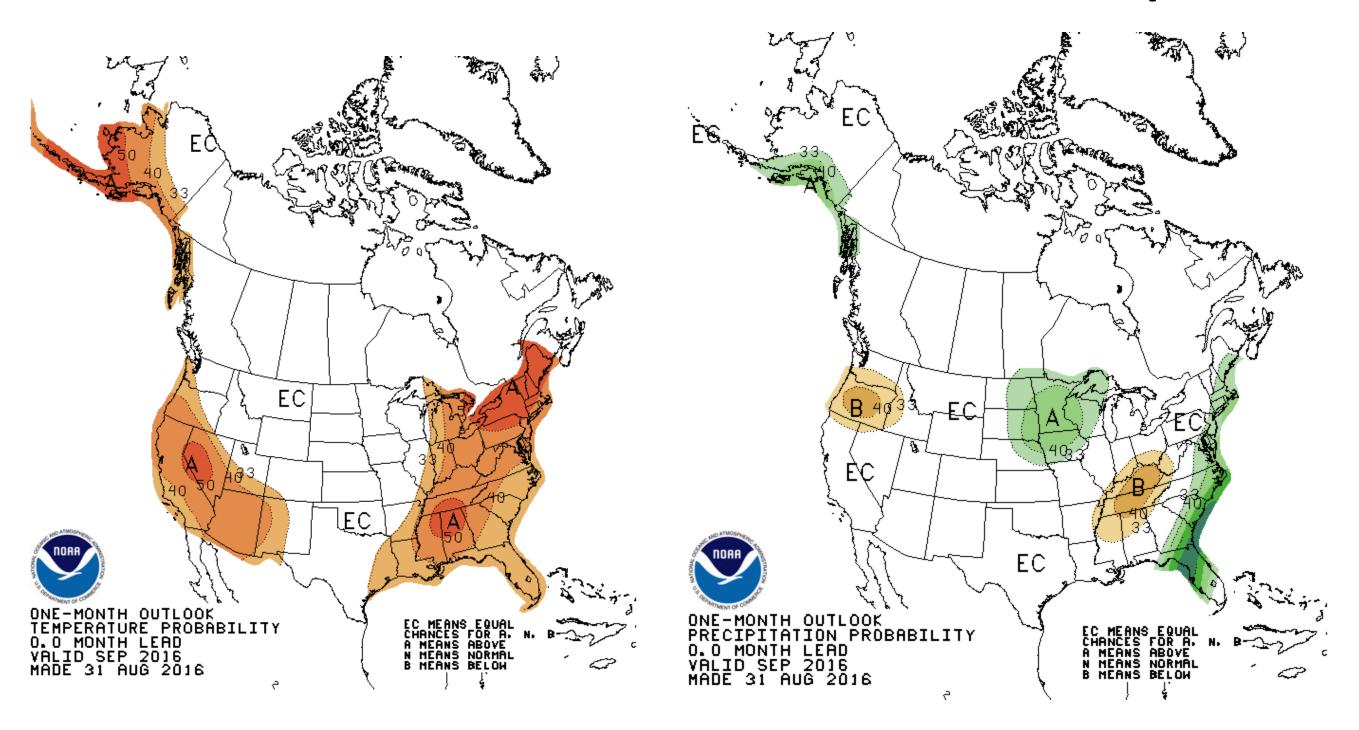


# Outlook: September 14th-20th

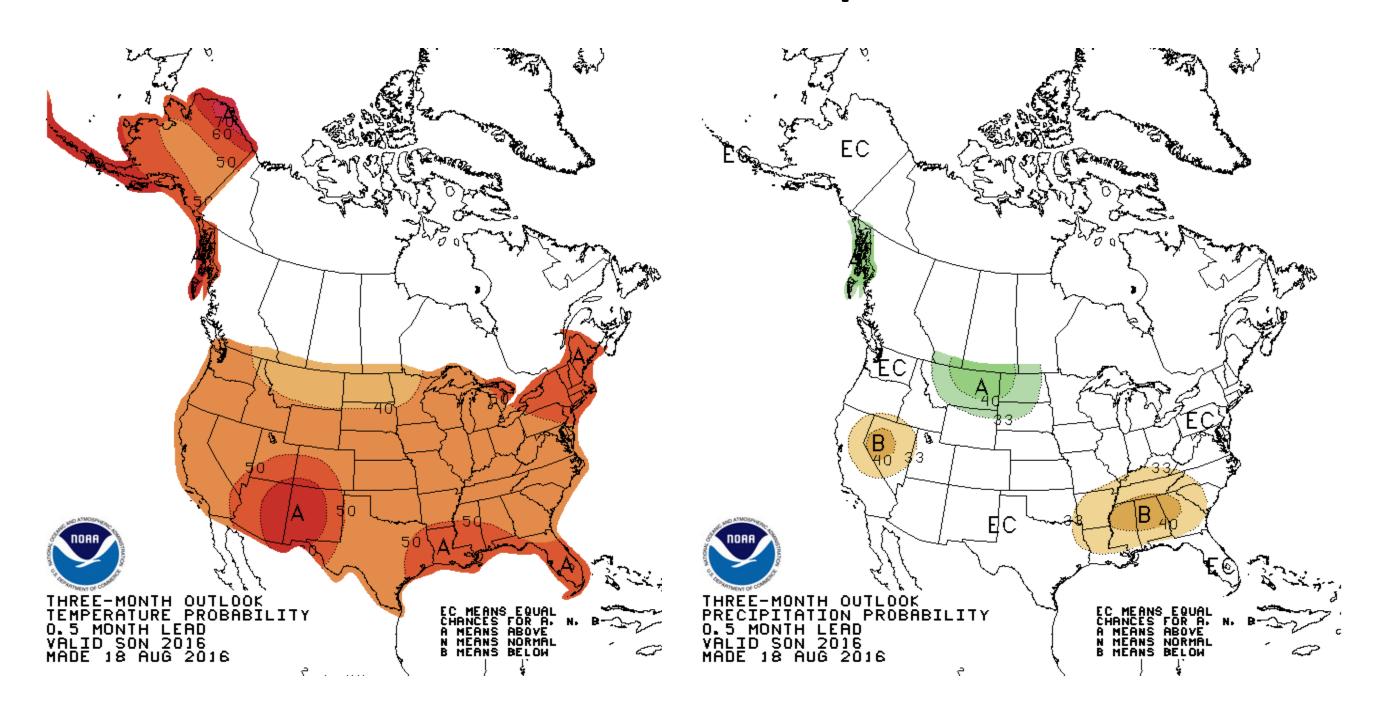


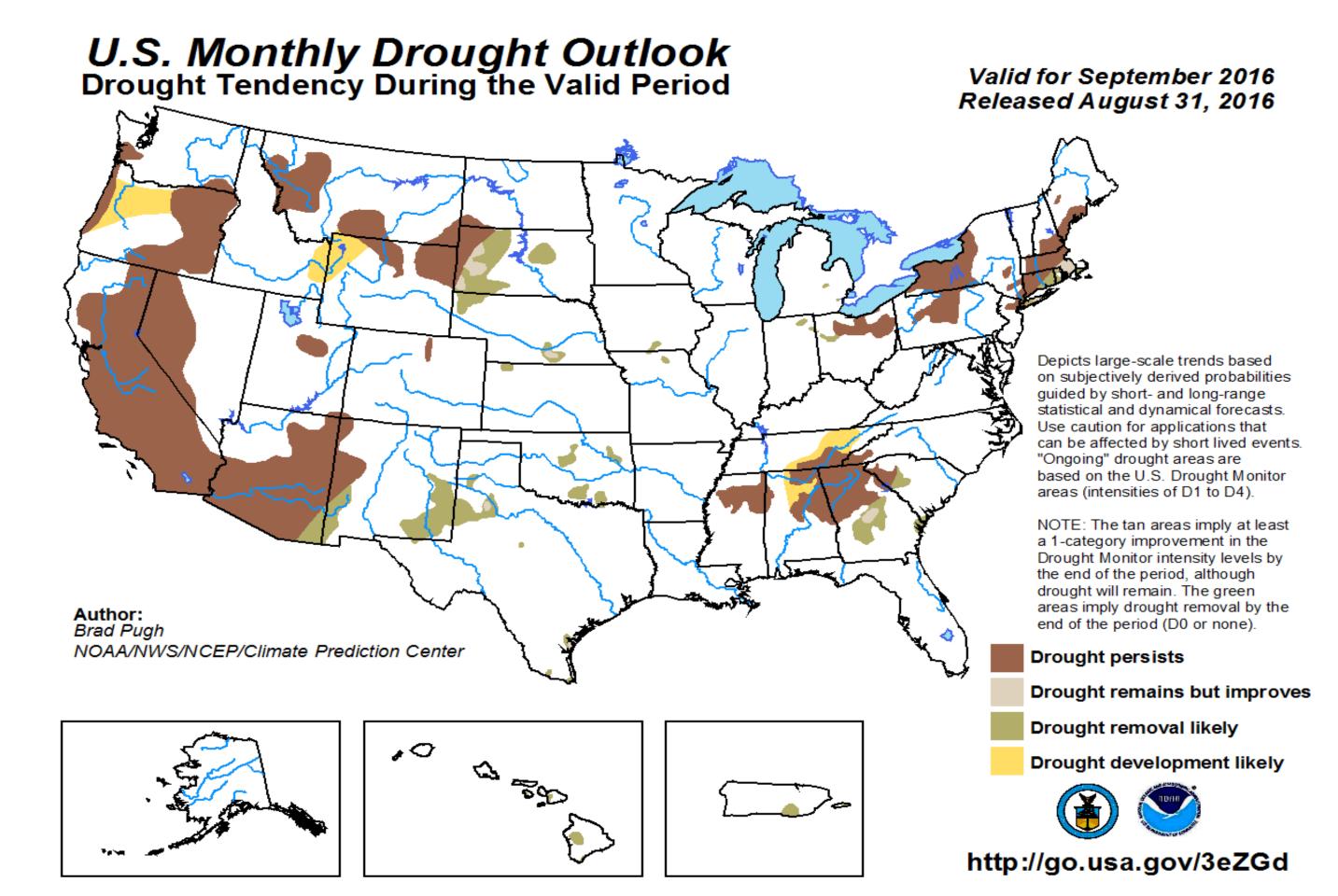


# CPC 1 Month Outlook for Sep



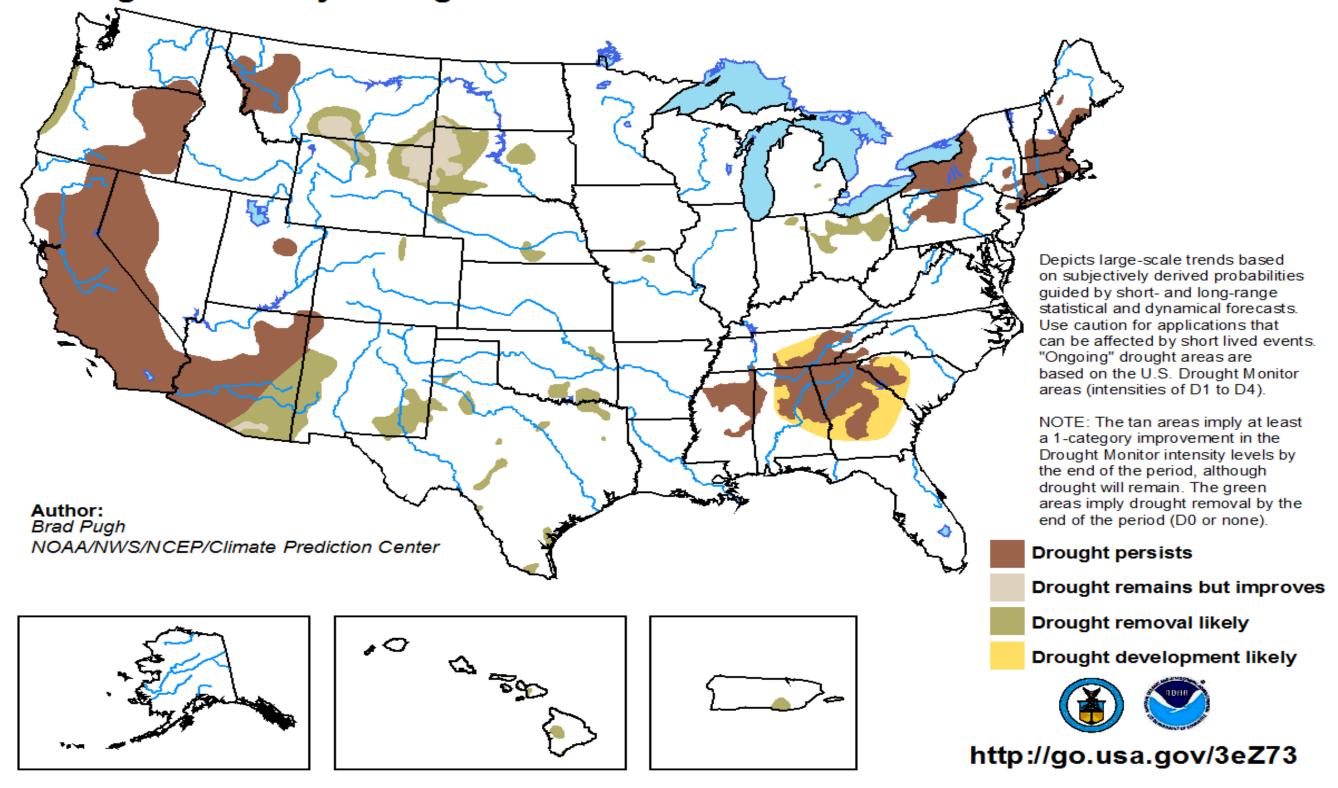
# CPC 3 Month Sep-Oct





## U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for August 18 - November 30, 2016 Released August 18, 2016

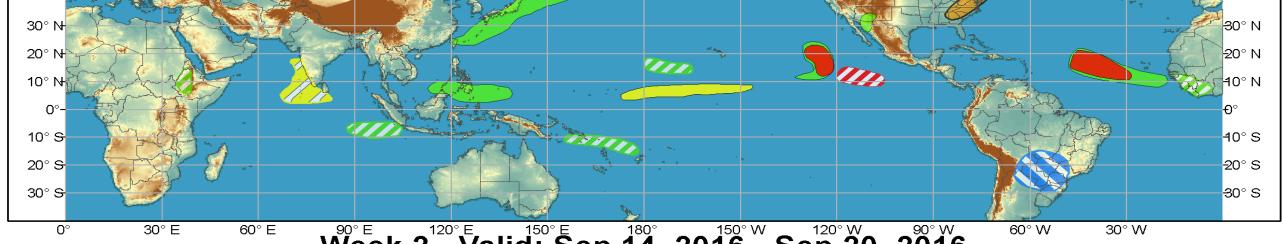




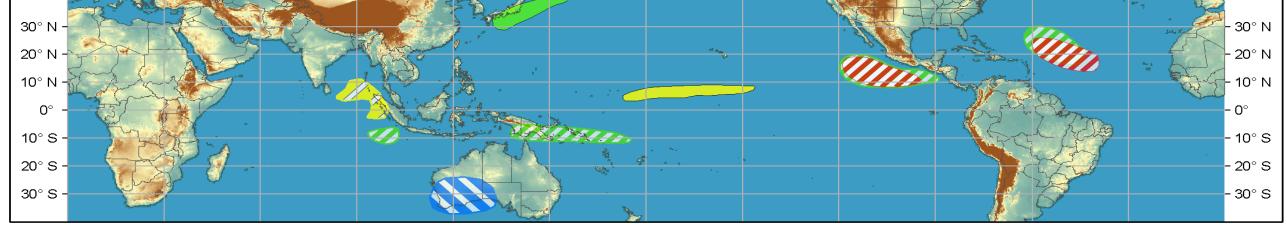
#### Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Sep 14, 2016 - Sep 20, 2016



Confidence High Moderate Produced: 09/06/2016

Forecaster: D.Harnos

**Tropical Cyclone Formation** 

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

Above-average rainfall

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

Below-average rainfall

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

**Above-normal temperatures** 

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

Below-normal temperatures 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.













