

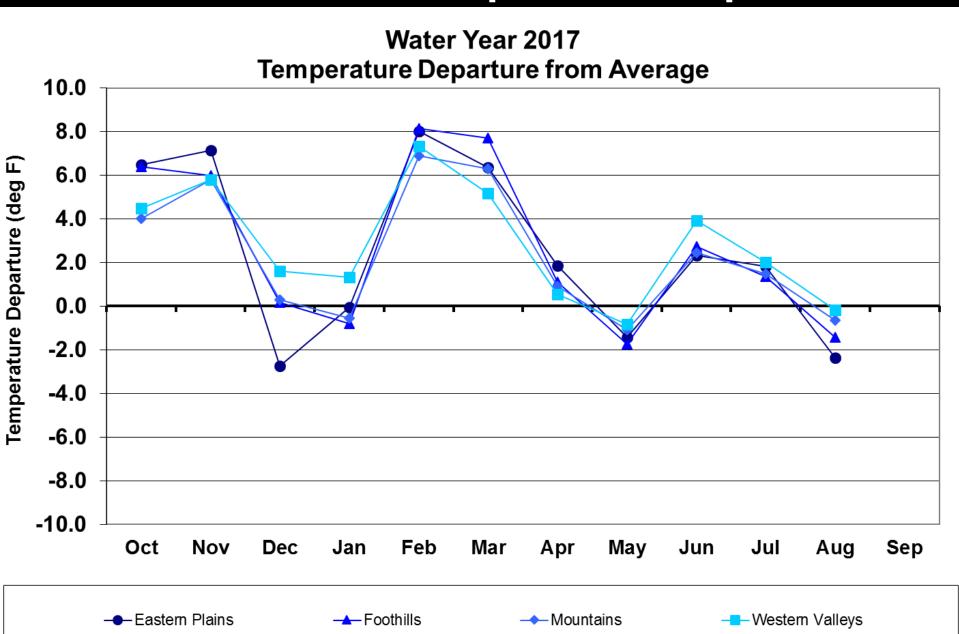
#### Colorado State University

# Climate Update

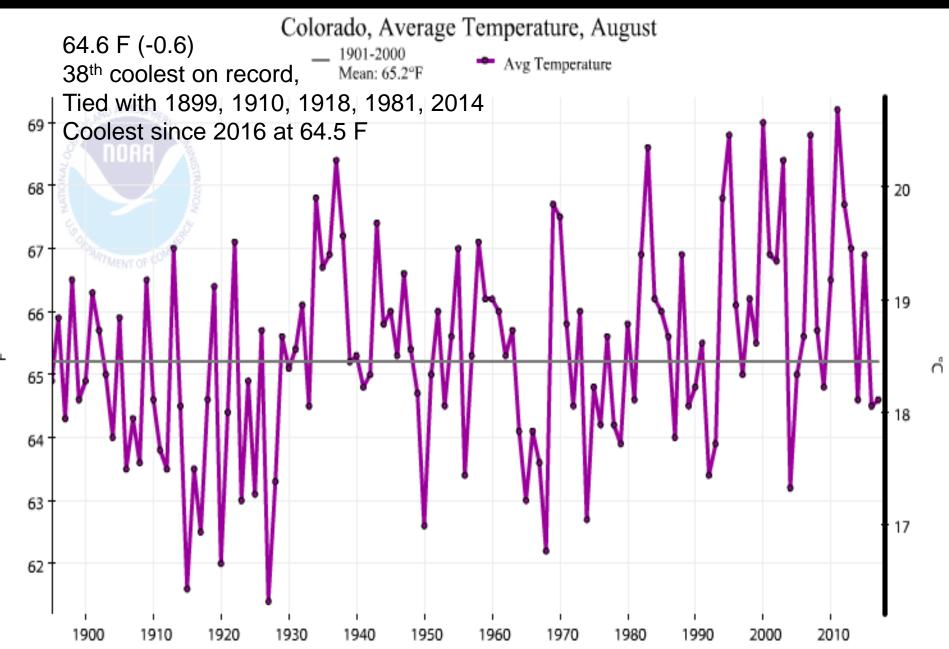
Zach Schwalbe Colorado Climate Center

Presented to Water Availability Task Force September 14, 2017 Denver, CO

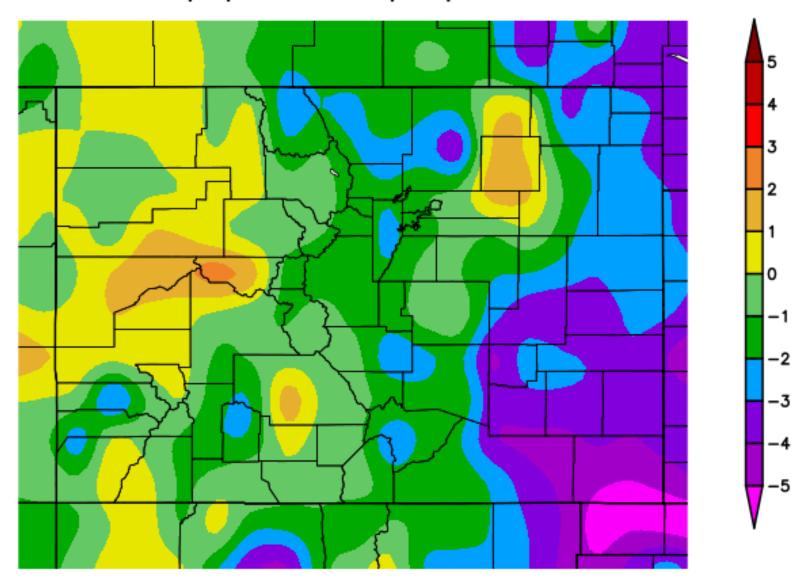
### Water Year 2017 Temperature Departures



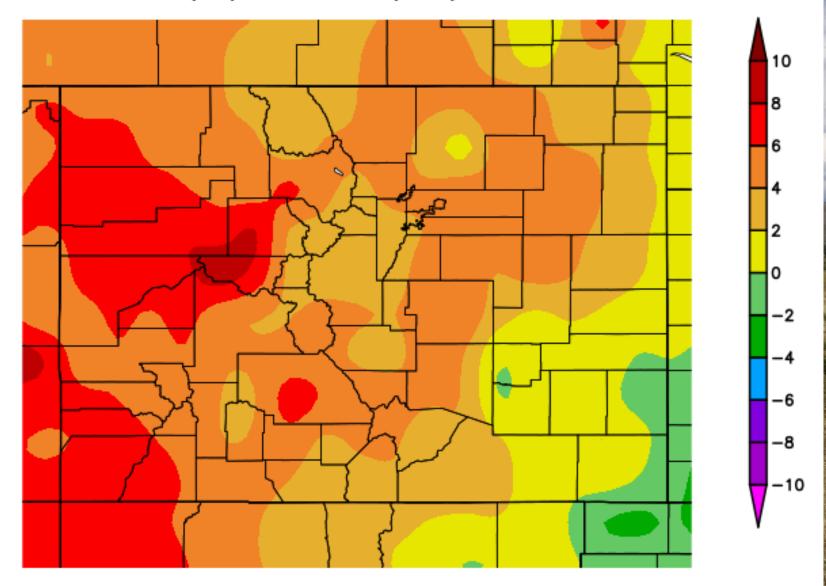
#### **Aug 2017 Average Temperature History for Colorado (NCEI)**



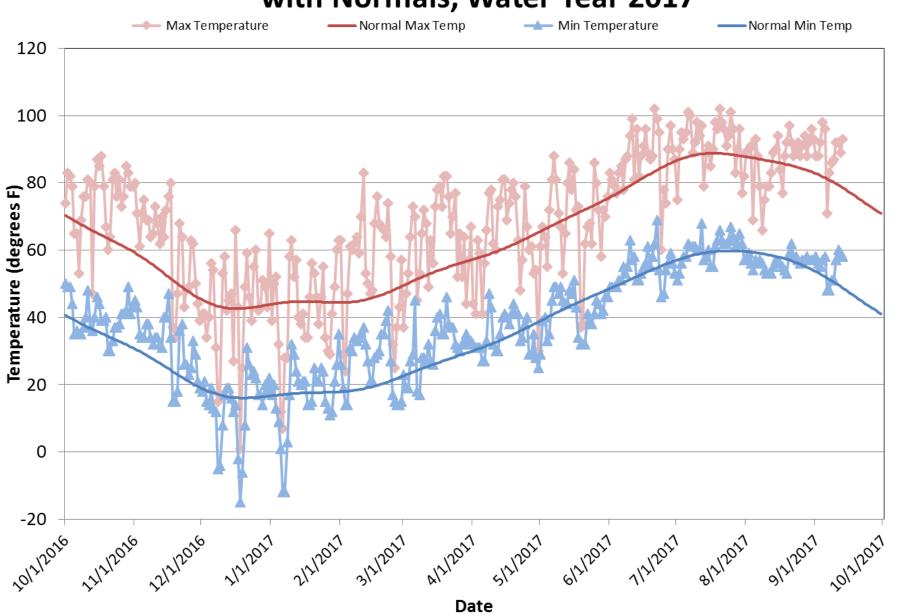
Departure from Normal Temperature (F) 8/1/2017 - 8/31/2017



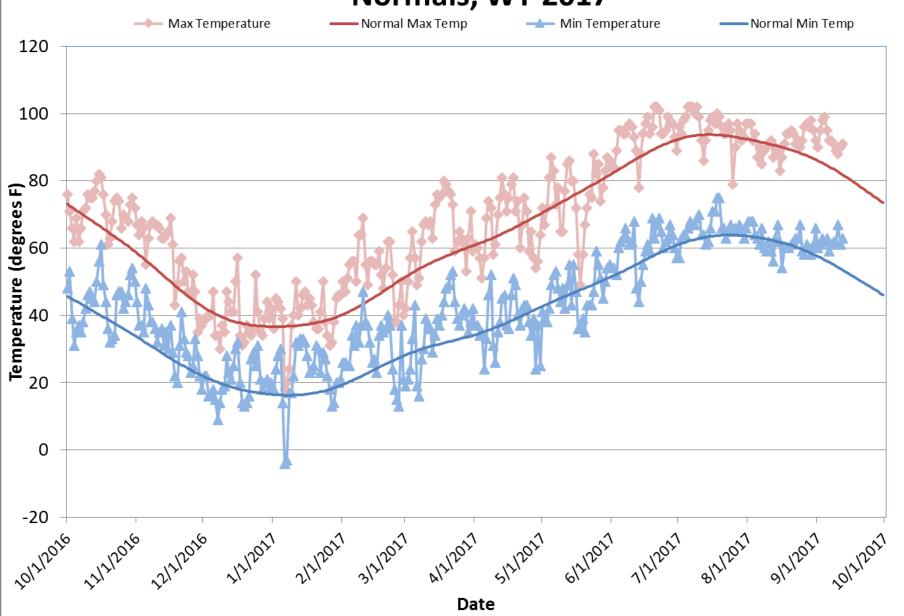
### Departure from Normal Temperature (F) 9/1/2017 - 9/12/2017

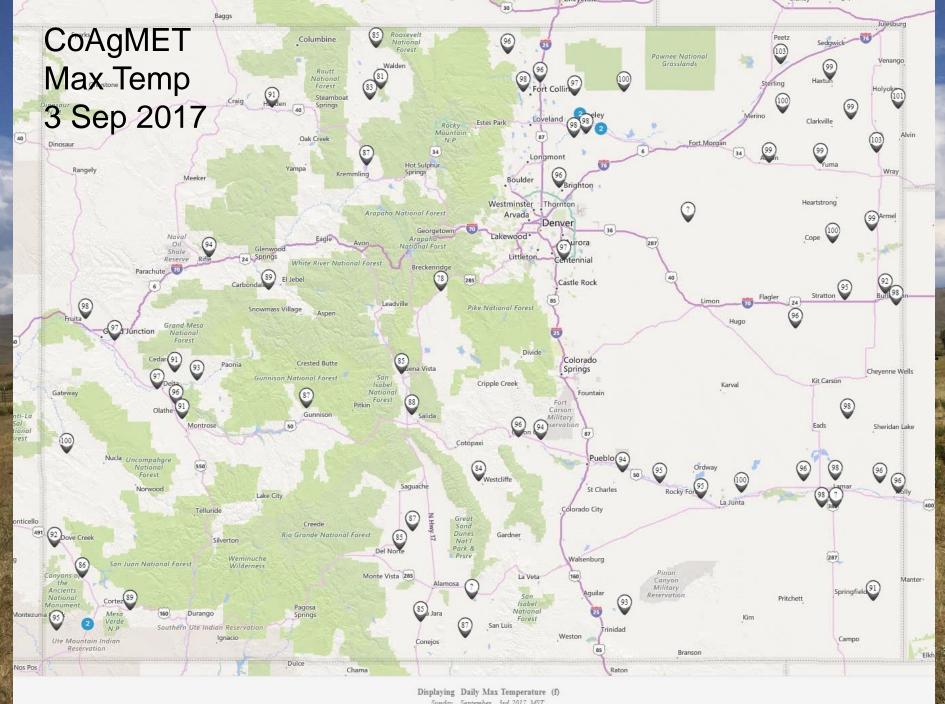


# Denver-Stapleton Daily Max/Min Temperatures with Normals, Water Year 2017



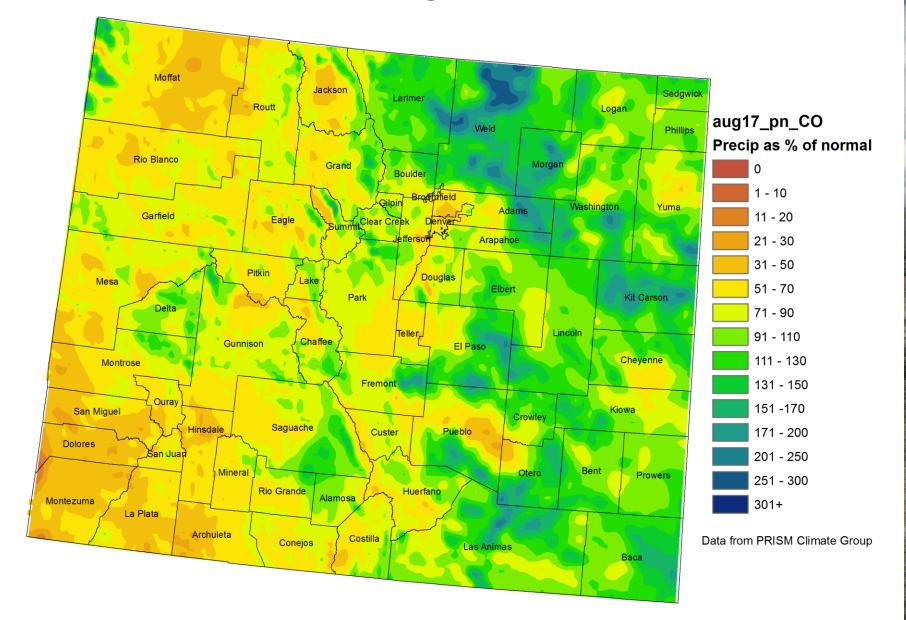
# Grand Junction Daily Max/Min Temperature with Normals, WY 2017



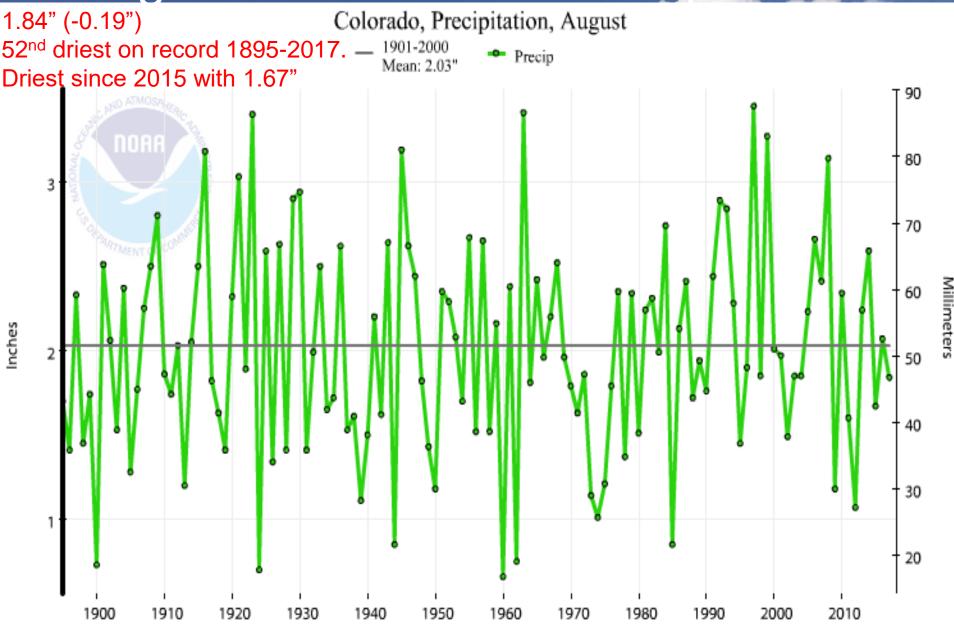


Sunday, September 3rd 2017 MST

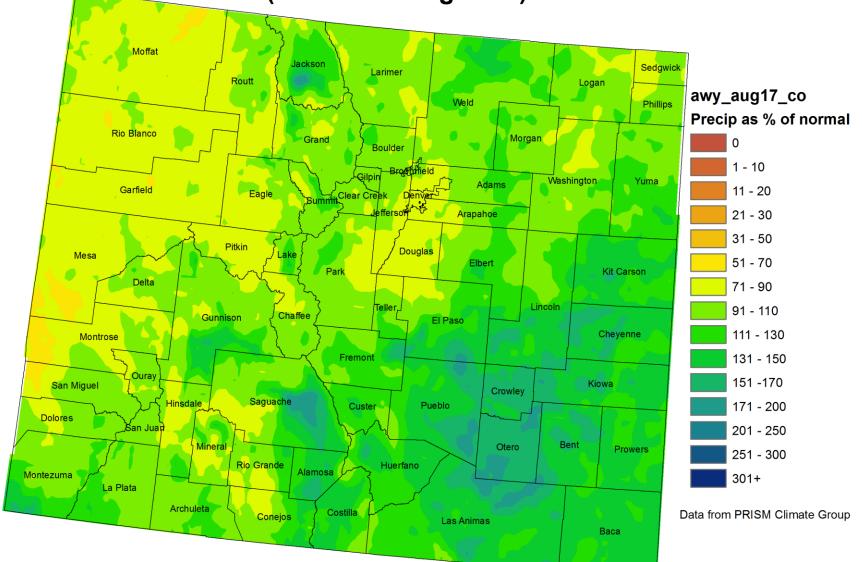
## Colorado August 2017 Precipitation as a Percentage of Normal



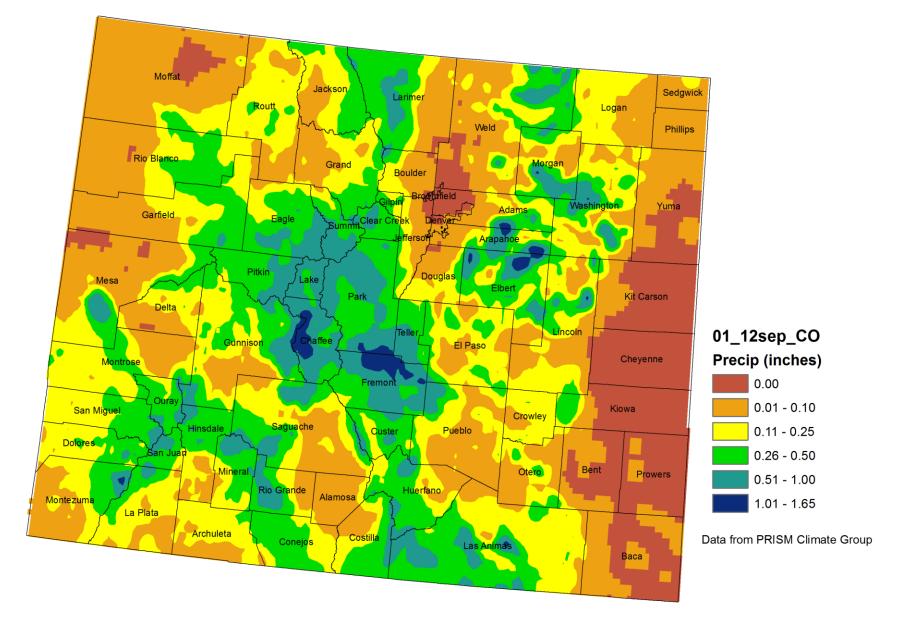
### Aug 2017 Statewide Precipitation



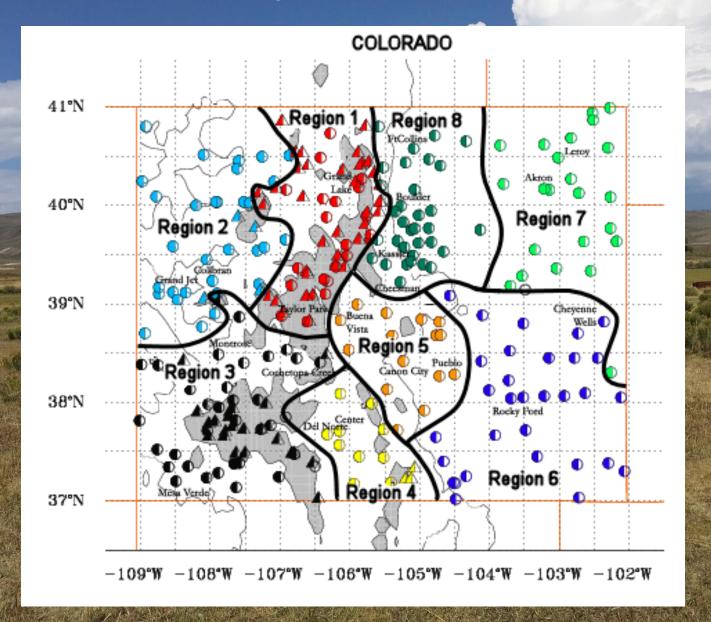
Colorado Water Year to Date Precipitation as a Percentage of Normal (Oct 2016 - Aug 2017)



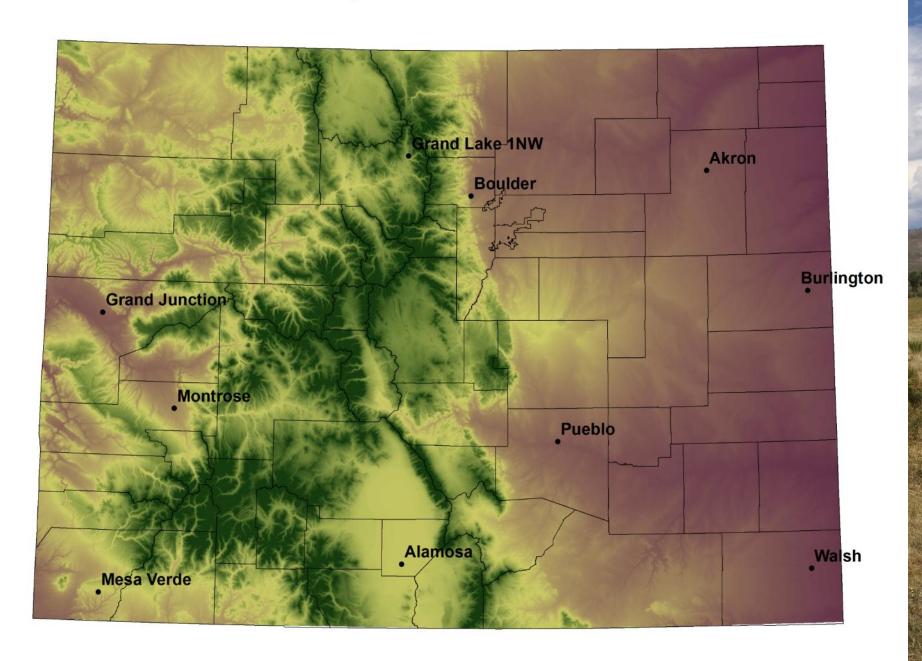
#### Colorado Month to Date Precipitation 1 - 12 September 2017 Ending 7AM MST



# Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO

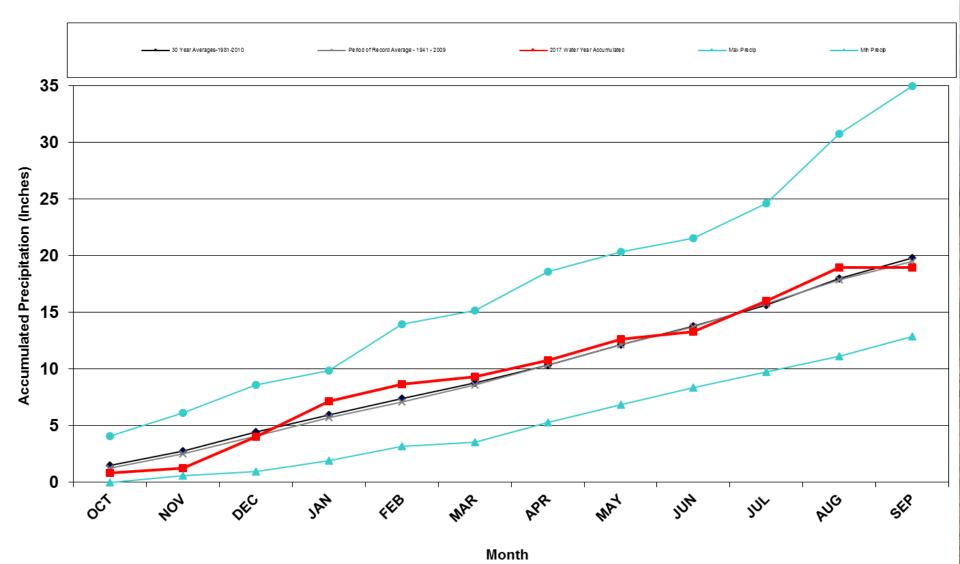


#### **NWS Cooperative Stations for WATF**



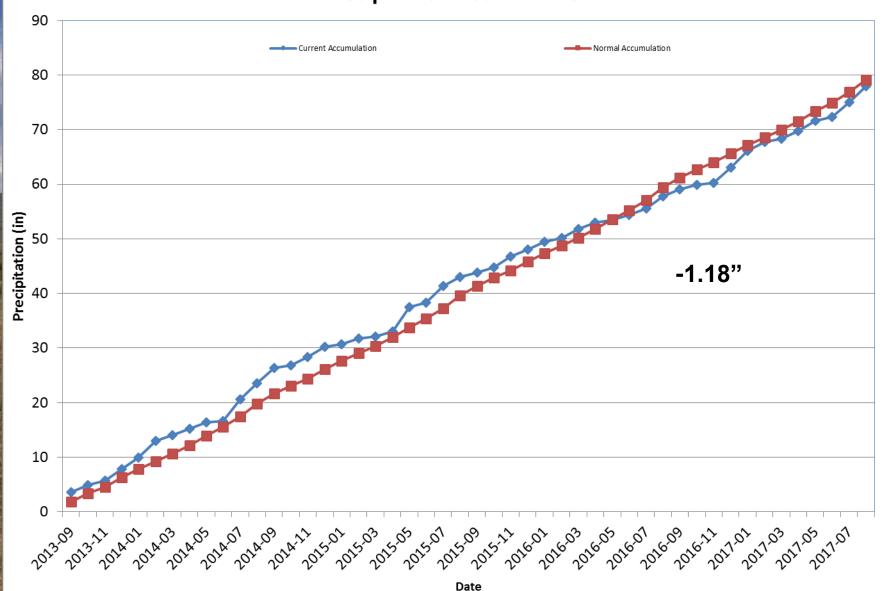
# Division 1 – Grand Lake 1NW

#### **Grand Lake 1 NW** 2017 Water Year



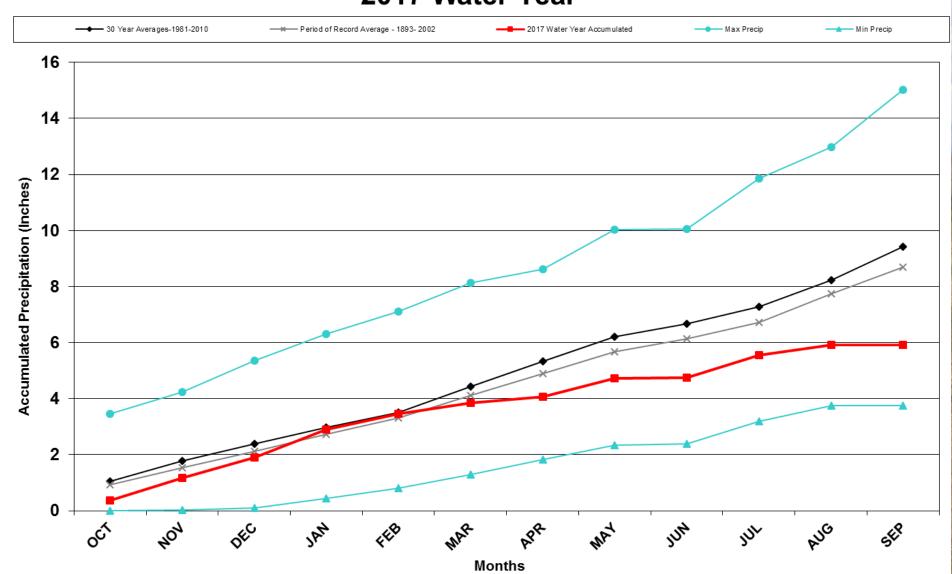
### Division 1 – Grand Lake 1NW

### Grand Lake 1NW Precipitation Accumulation



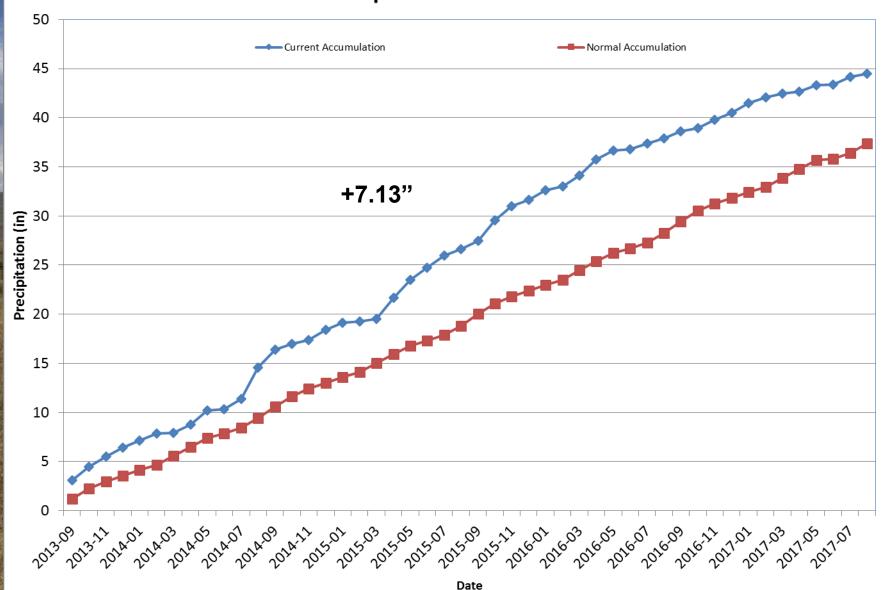
### Division 2 - Grand Junction

# **Grand Junction WSFO 2017 Water Year**



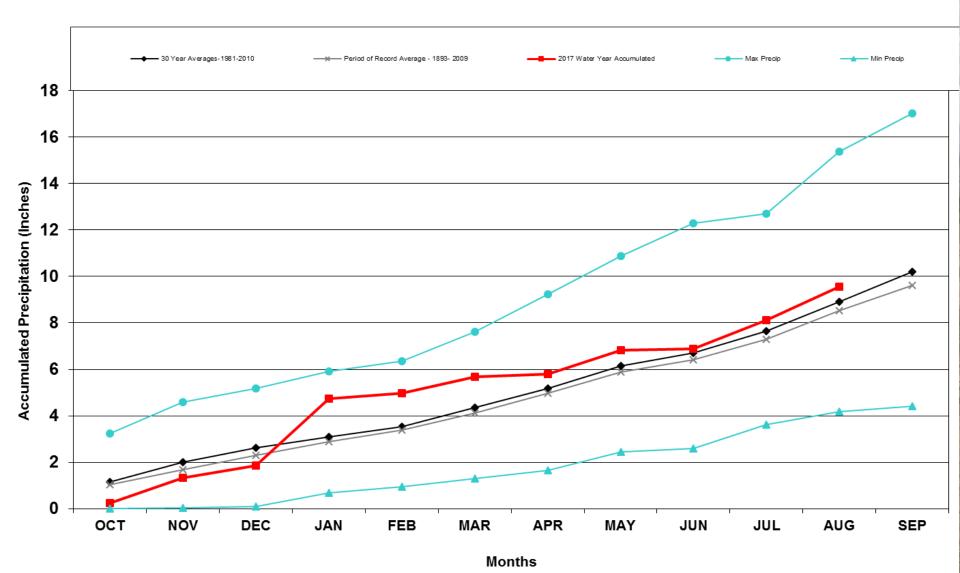
### Division 2 - Grand Junction





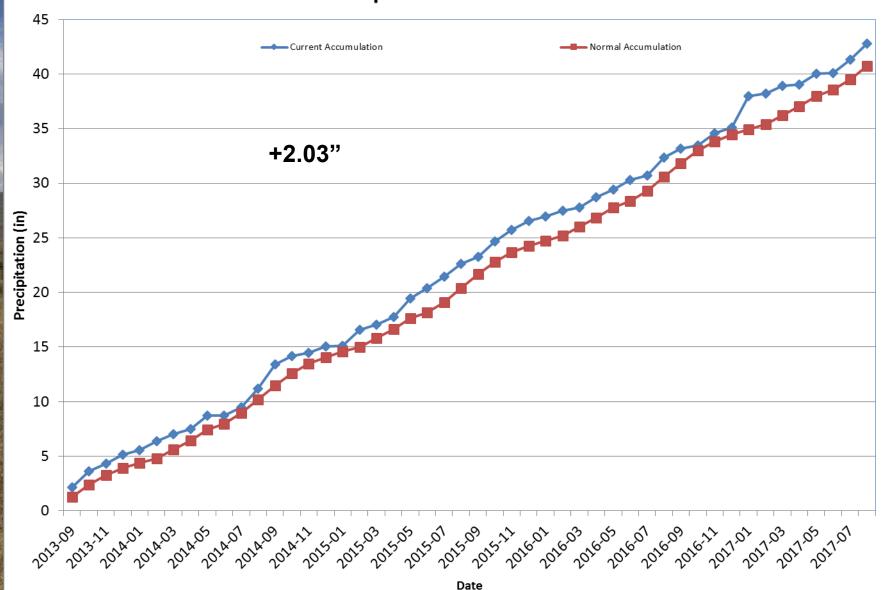
# Division 3 – Montrose

# Montrose #2 2017 Water Year



### Division 3 - Montrose

#### Montrose #2 Precipitation Accumulation



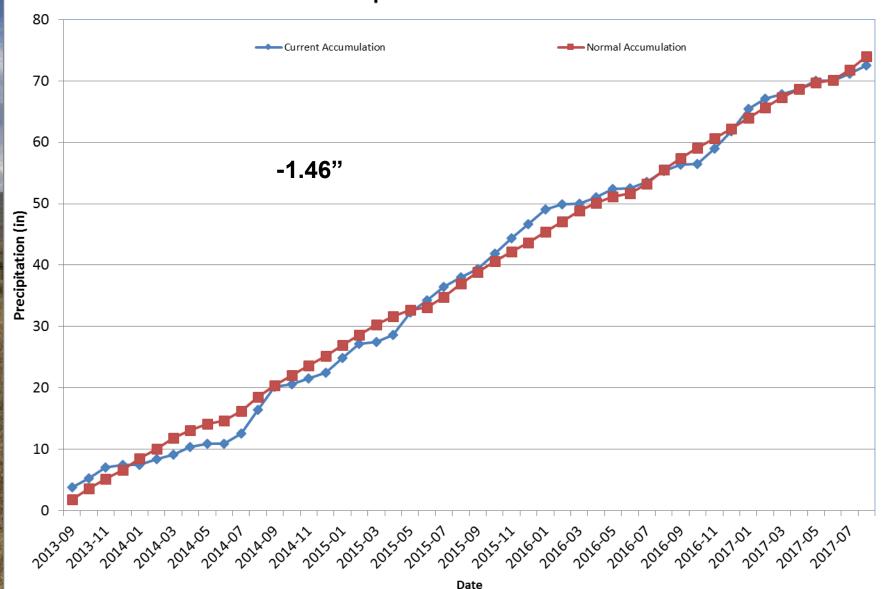
## Division 3 – Mesa Verde NP

# Mesa Verde NP 2017 Water Year



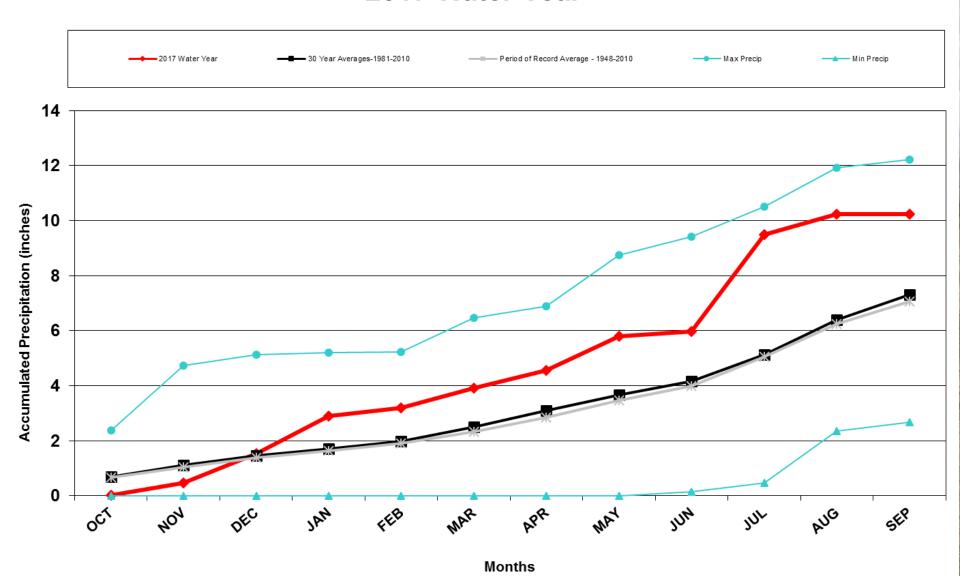
### Division 3 – Mesa Verde NP

#### Mesa Verde NP Precipitation Accumulation



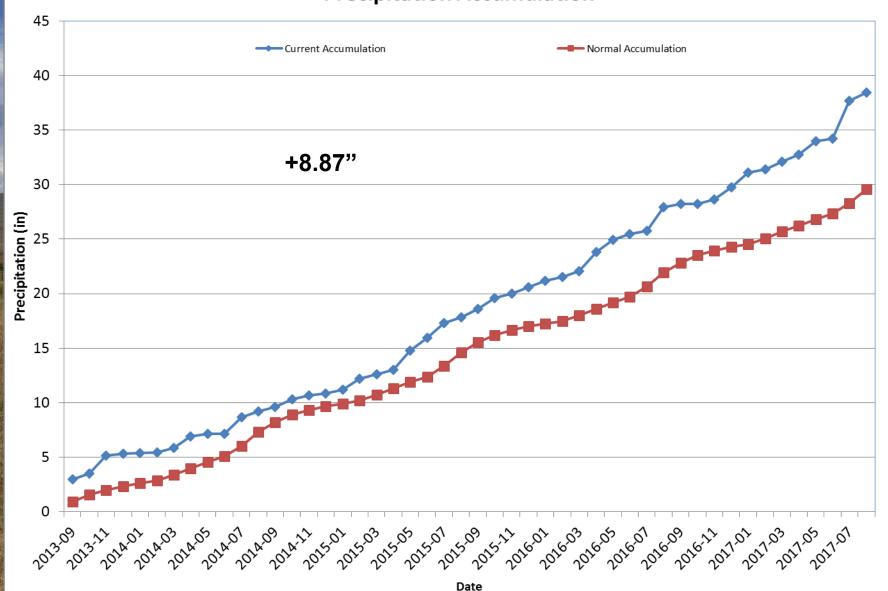
### Division 4 – Alamosa

# Alamosa WSO 2017 Water Year



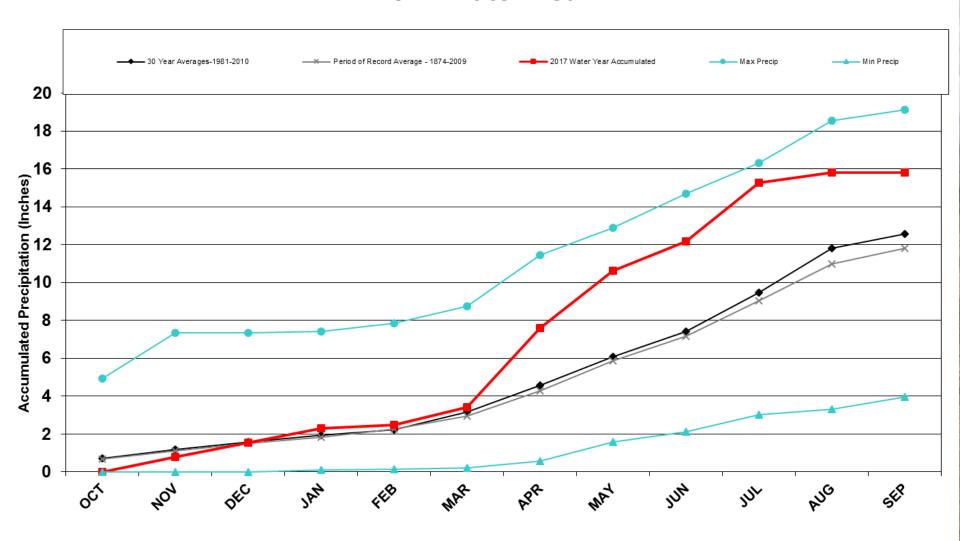
### Division 4 – Alamosa

### Alamosa WSO Precipitation Accumulation



### Division 5 – Pueblo

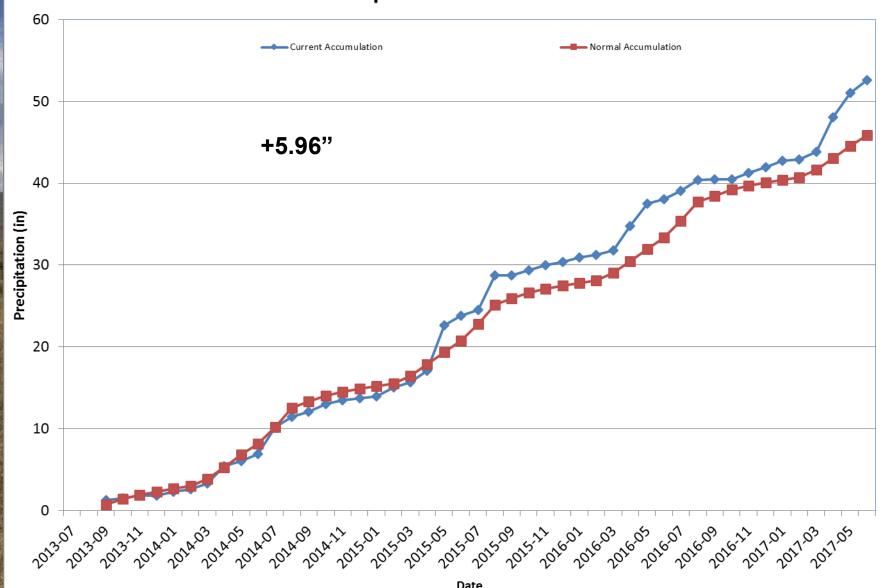
# Pueblo WSO 2017 Water Year



Months

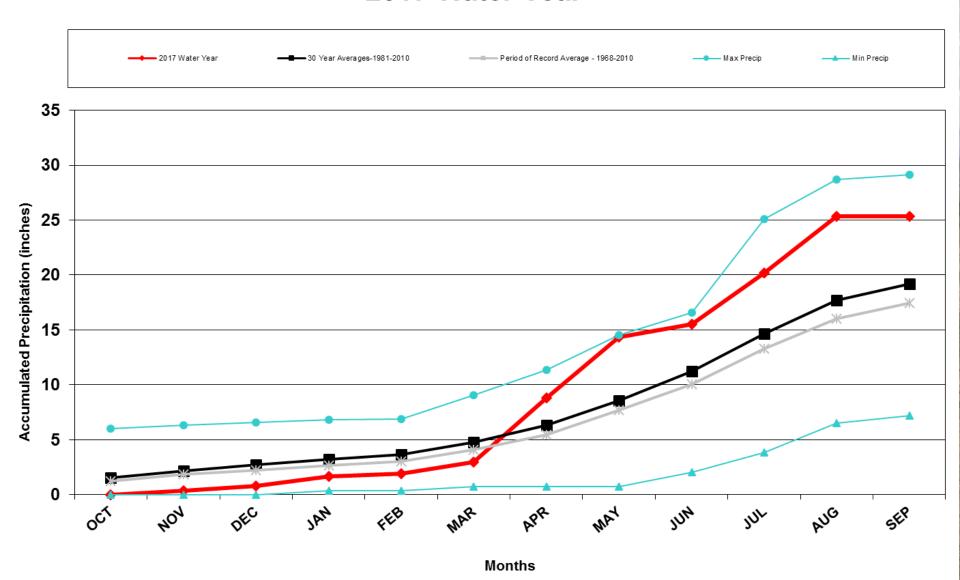
### Division 5 – Pueblo

#### Pueblo Memorial AP Precipitation Accumulation



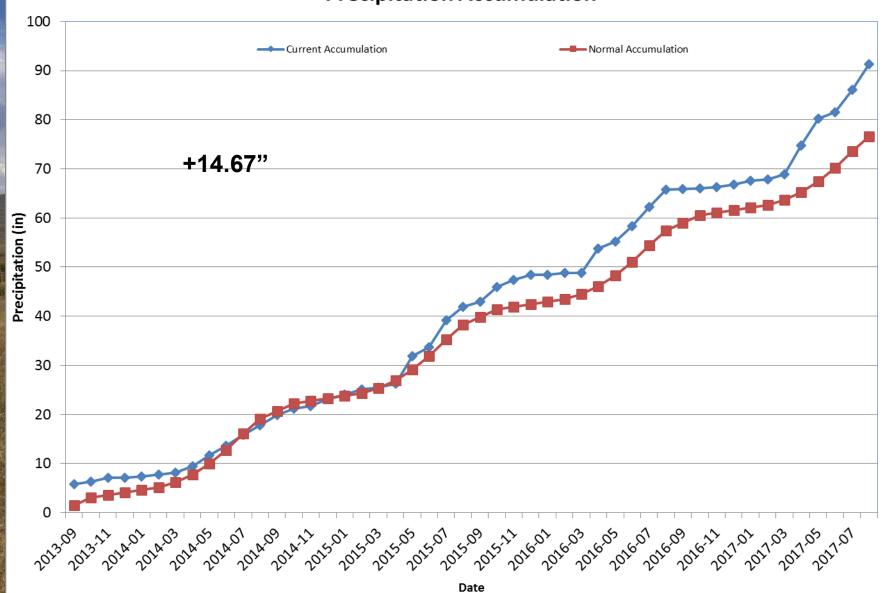
# Division 6 - Walsh

#### Walsh 2017 Water Year



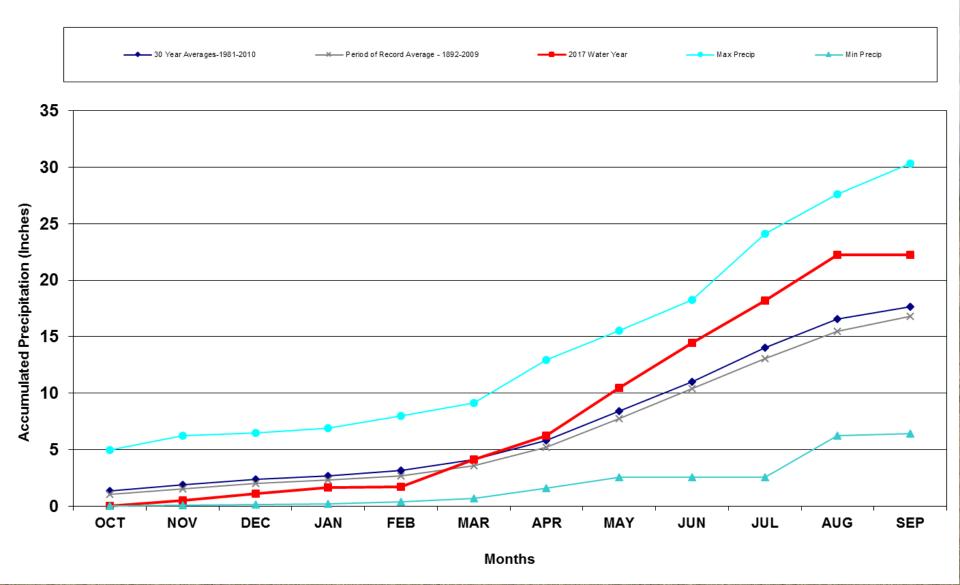
### Division 6 - Walsh





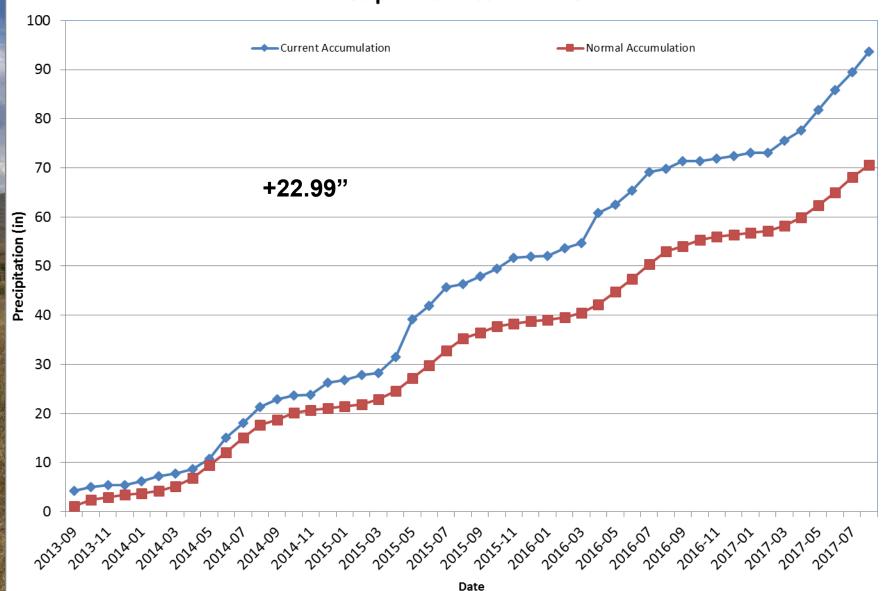
### Division 6 - Burlington

# Burlington 2017 Water Year



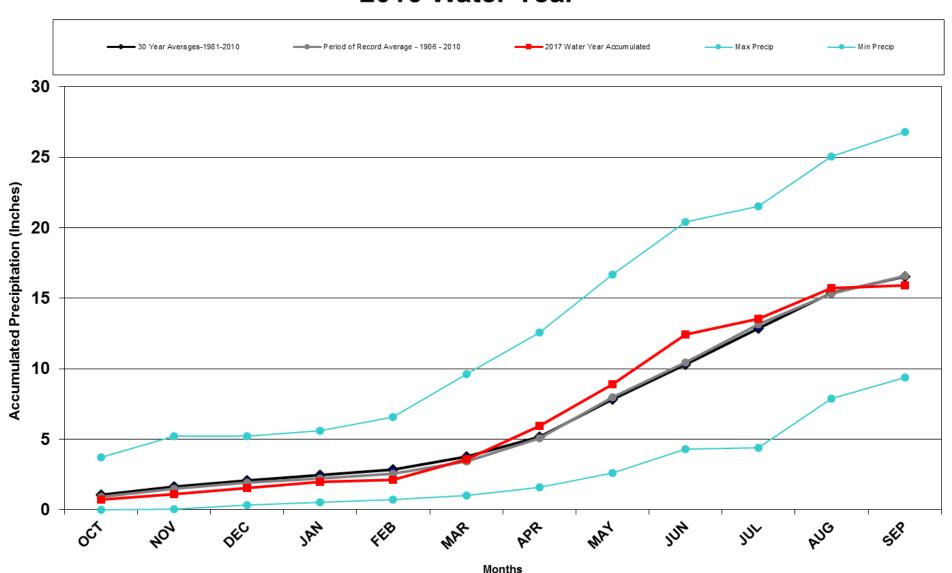
### Division 6 - Burlington





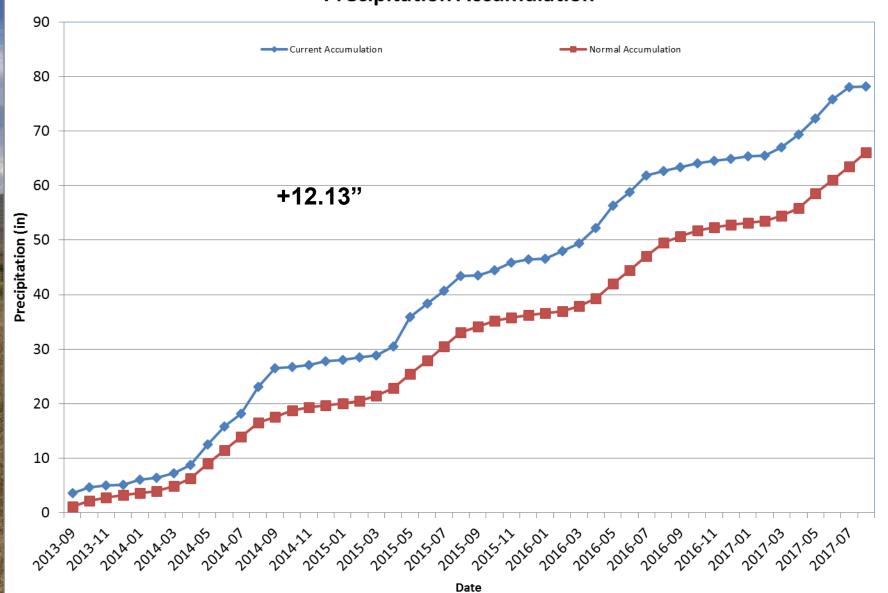
## Division 7 – Akron

#### Akron 4E 2016 Water Year



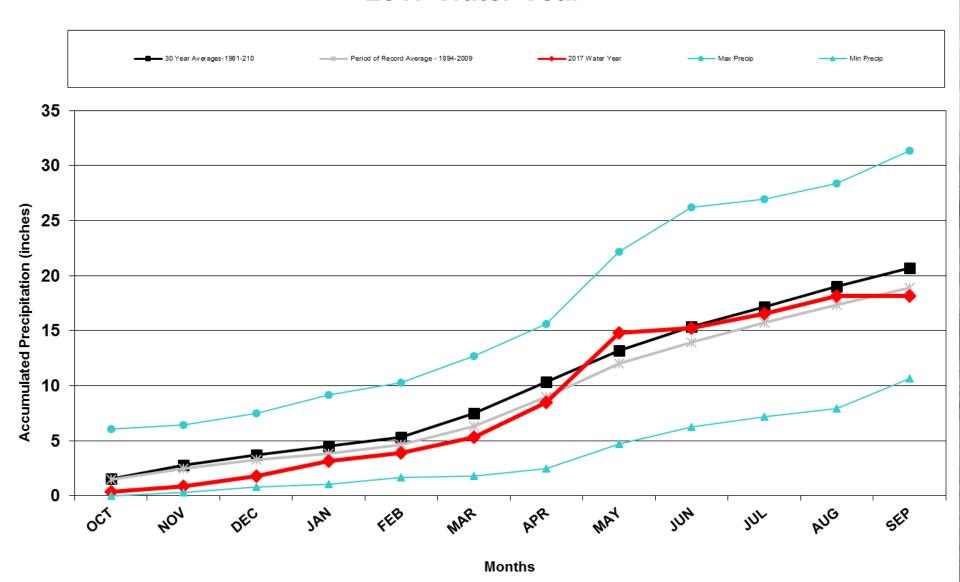
### Division 7 – Akron





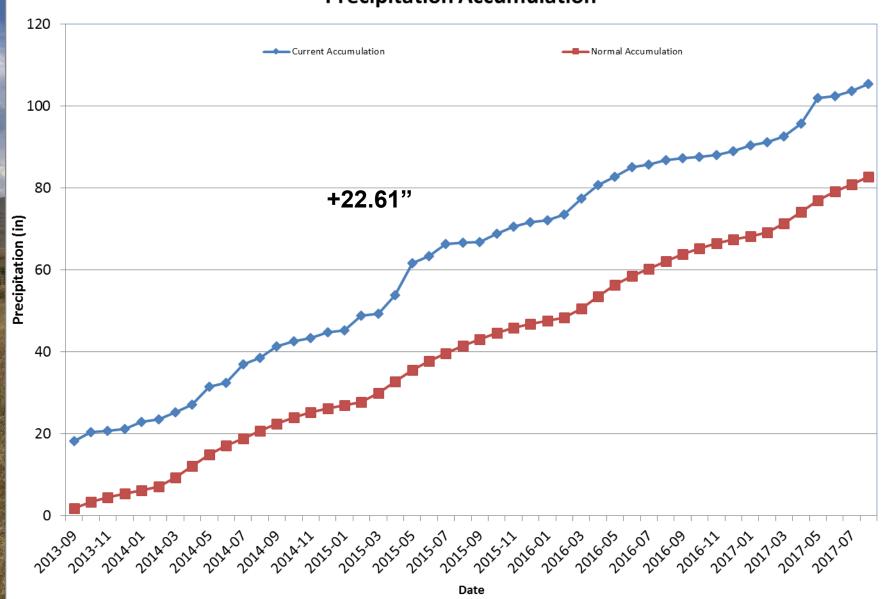
## Division 8 - Boulder

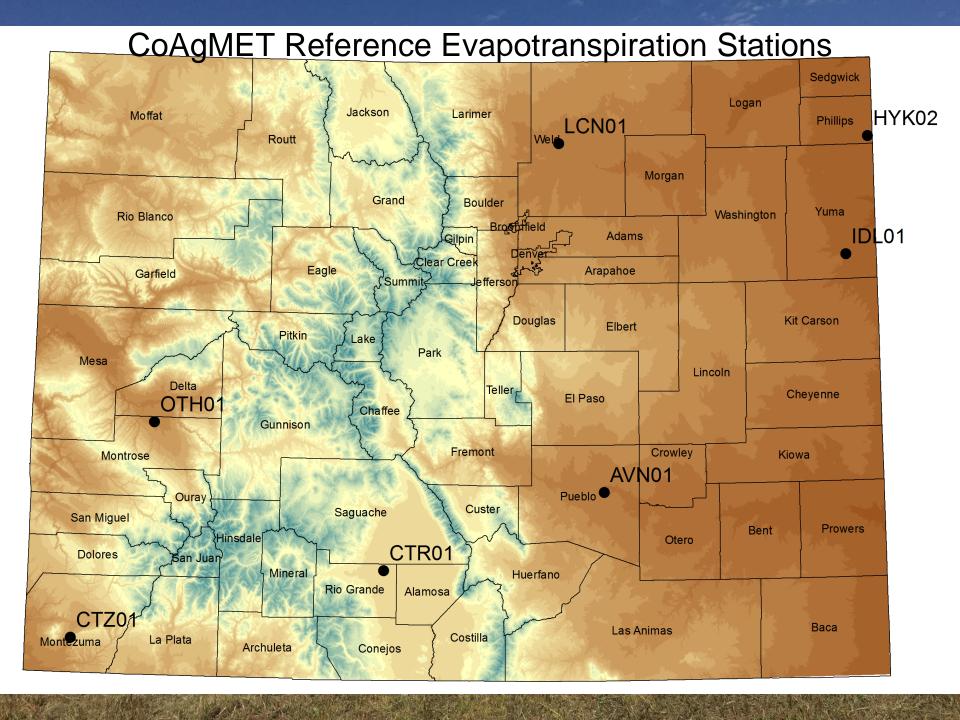
# Boulder 2017 Water Year



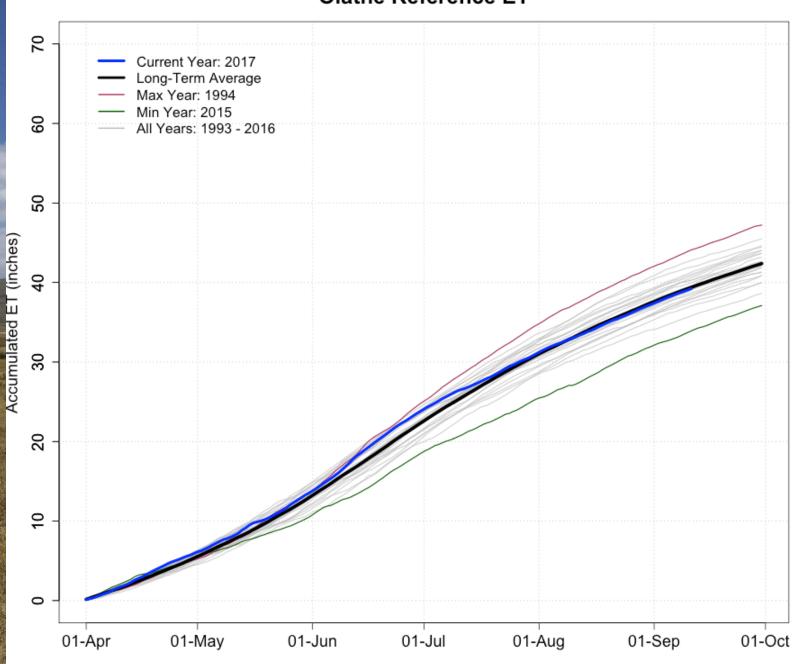
# Division 8 - Boulder



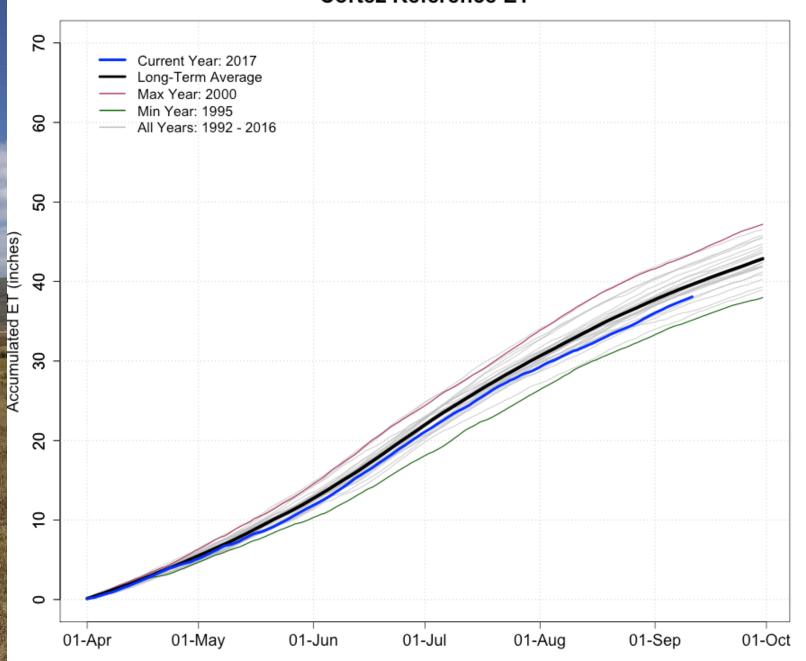




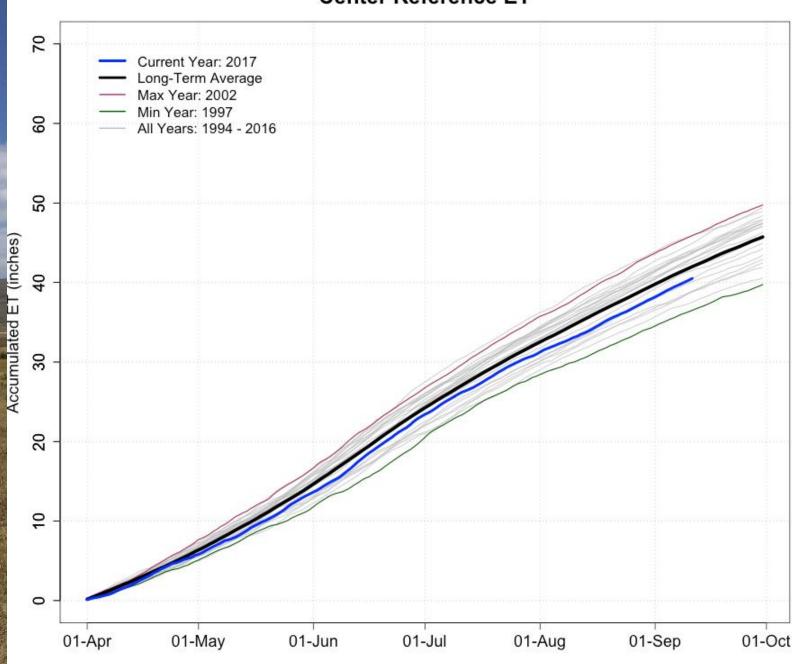
#### **Olathe Reference ET**



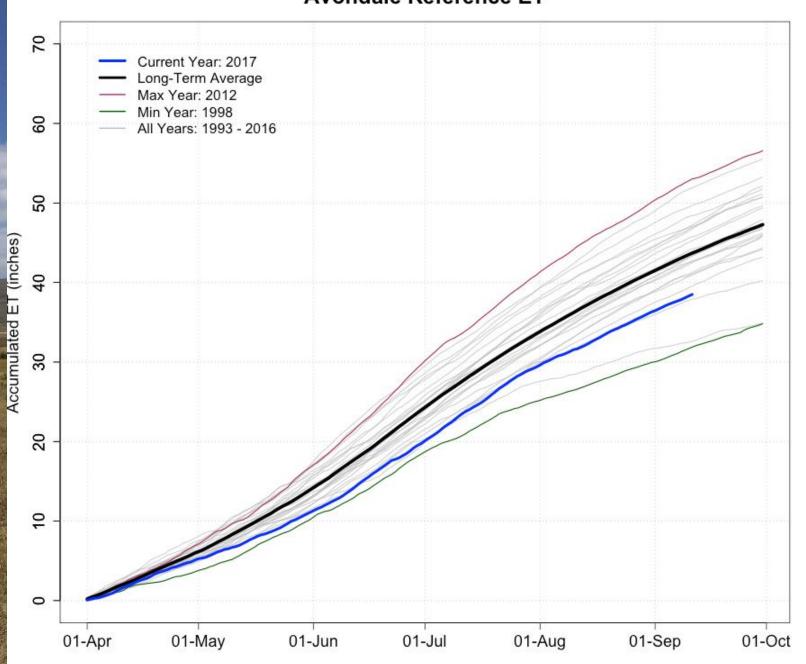
### **Cortez Reference ET**



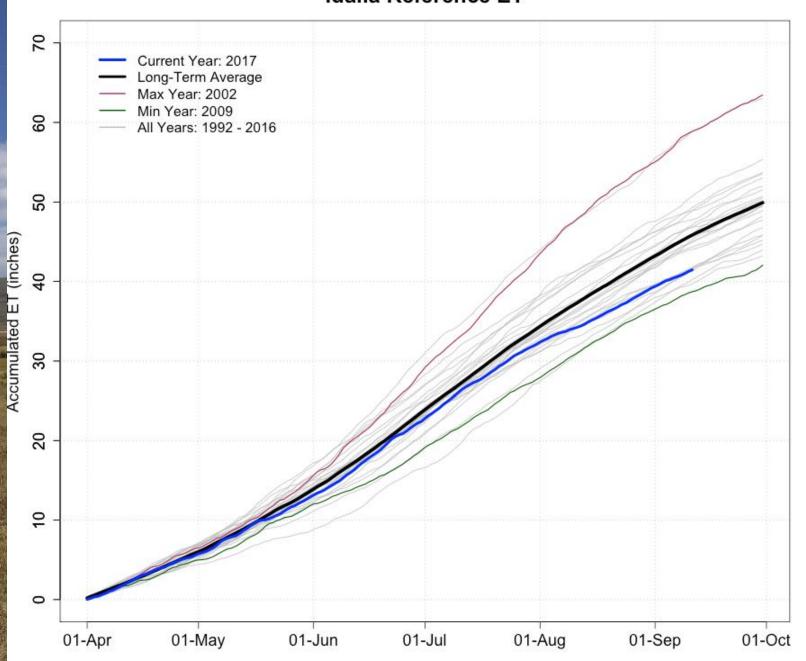
### Center Reference ET



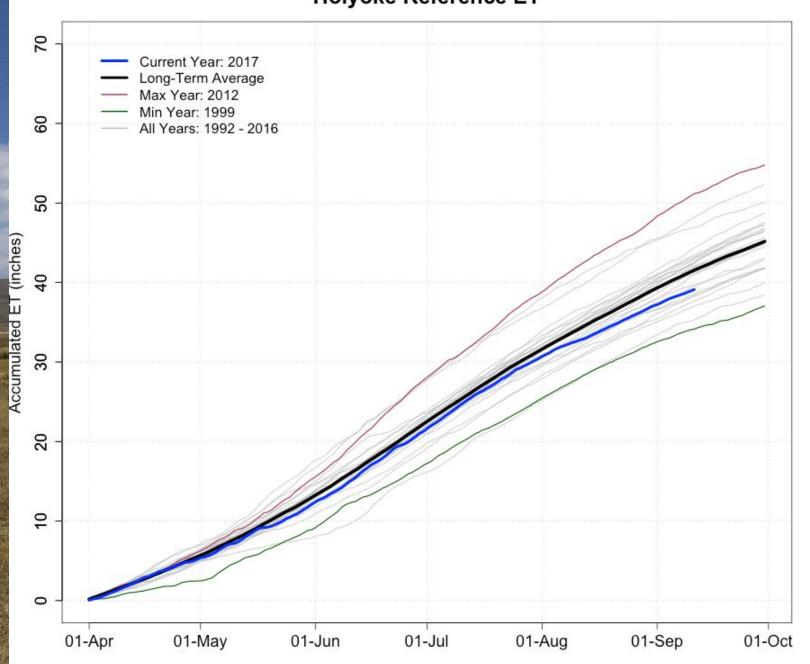
### **Avondale Reference ET**



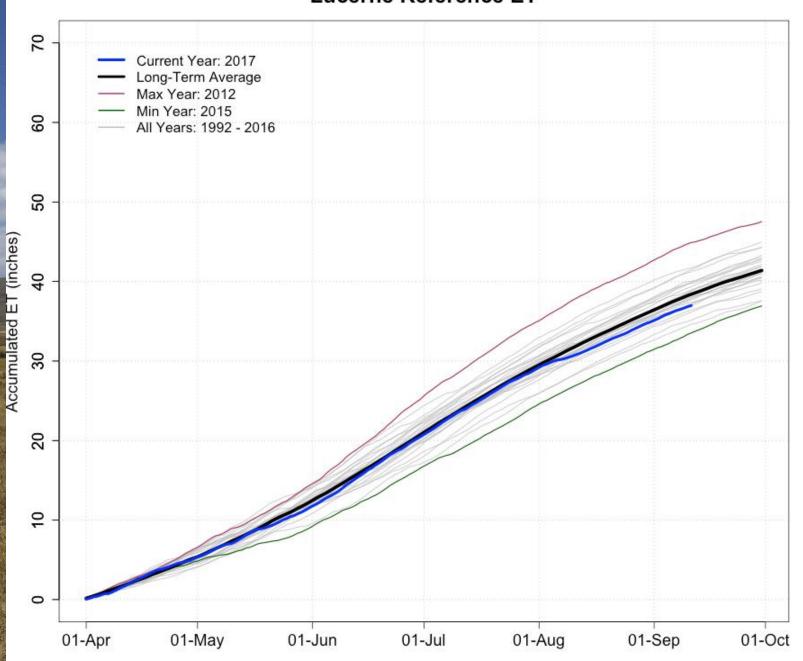
### Idalia Reference ET

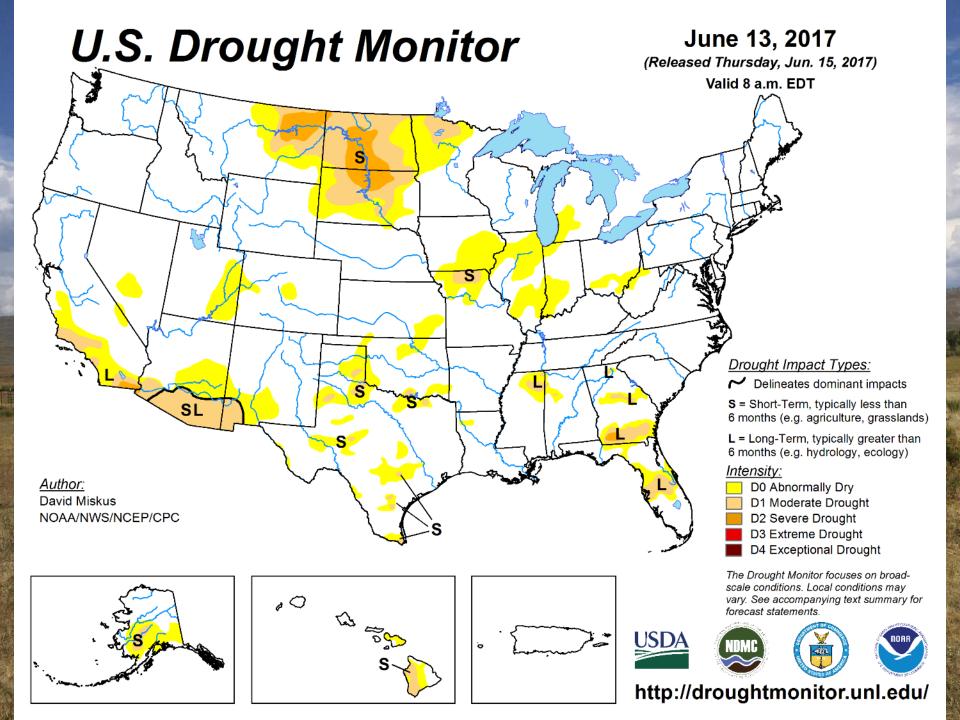


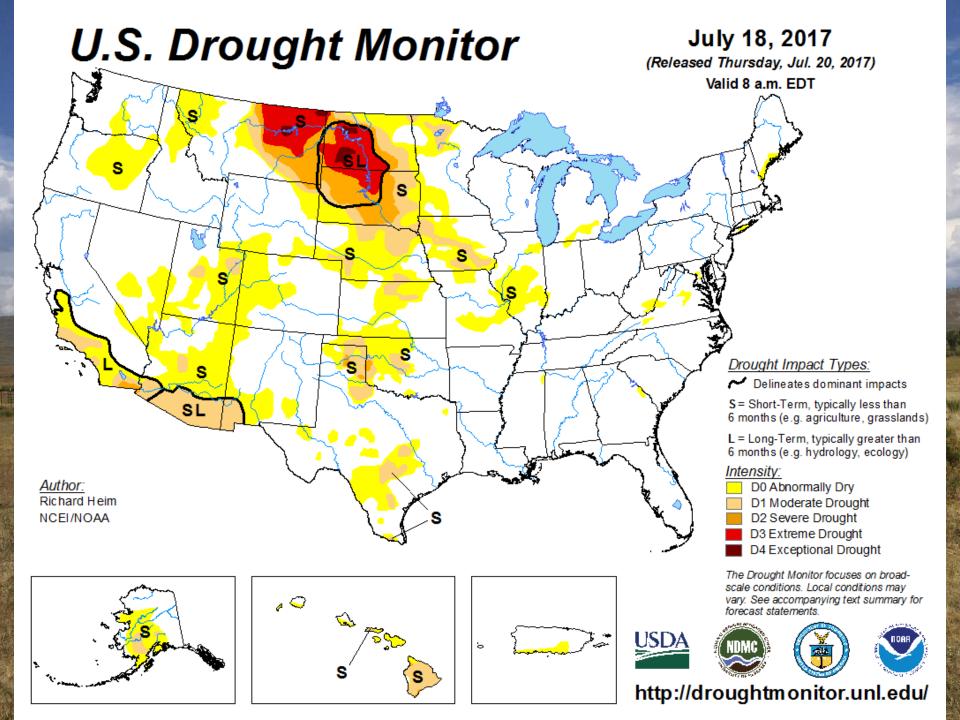
## Holyoke Reference ET

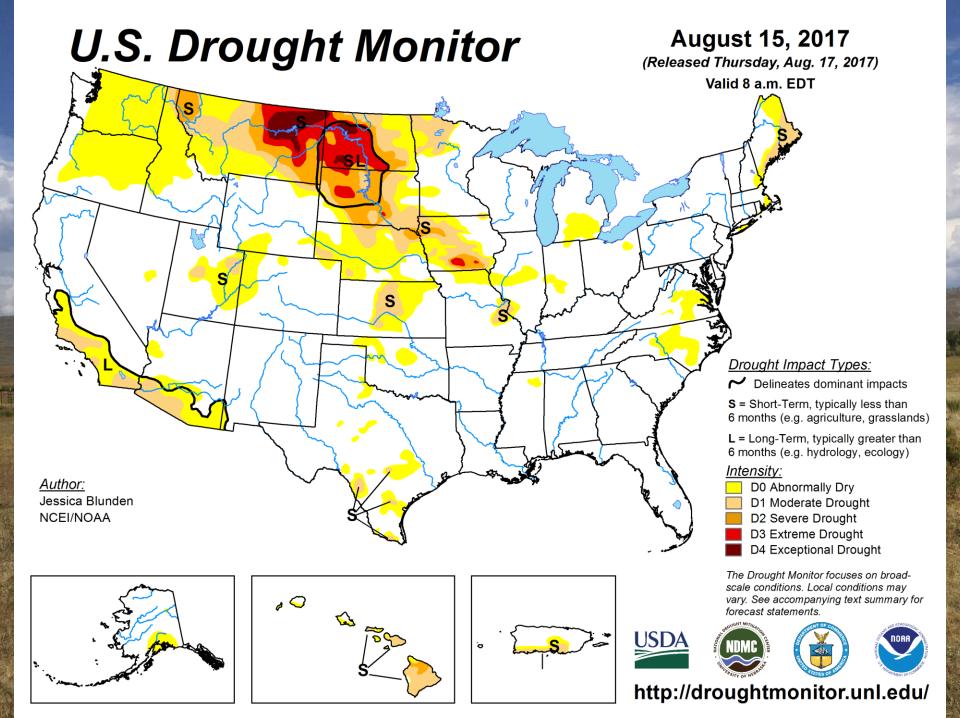


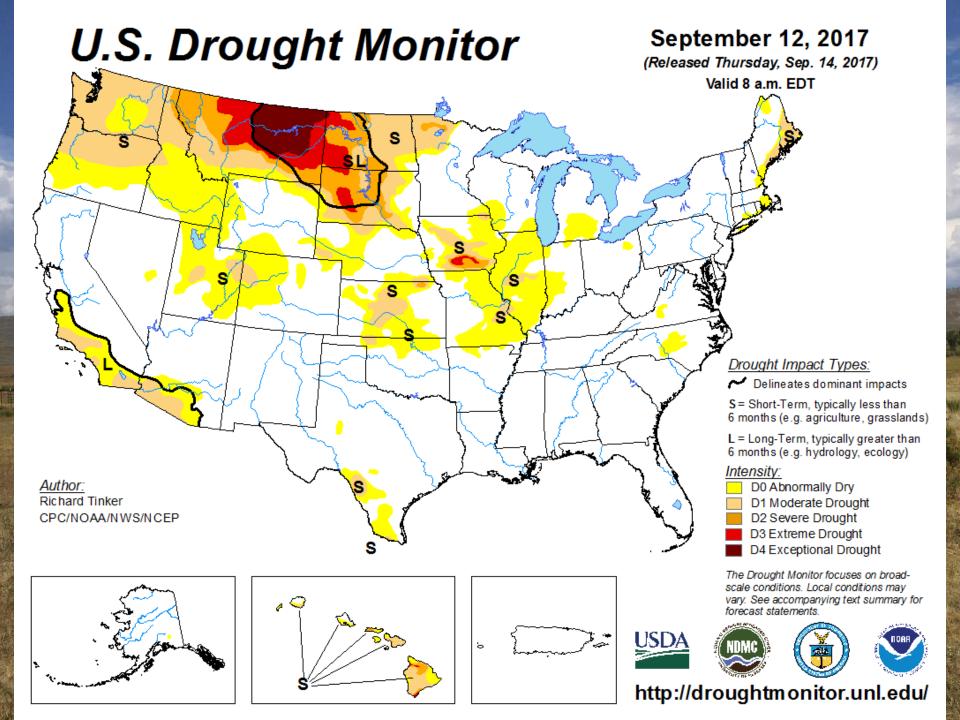
### Lucerne Reference ET



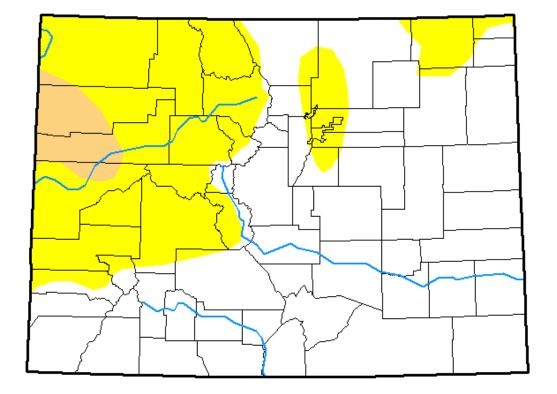








# U.S. Drought Monitor Colorado



### September 12, 2017

(Released Thursday, Sep. 14, 2017)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	64.81	35.19	3.72	0.00	0.00	0.00
Last Week 09-05-2017	67.49	32.51	3.72	0.00	0.00	0.00
3 Month s Ago 06-13-2017	93.84	6.16	0.00	0.00	0.00	0.00
Start of Calendar Year 01-03-2017	31.88	68.12	37.21	2.88	0.00	0.00
Start of Water Year 09-27-2016	70.49	29.51	2.45	0.00	0.00	0.00
One Year Ago 09-13-2016	71.75	28.25	1.79	0.00	0.00	0.00

#### Intensity:

D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

### Author:

Richard Tinker CPC/NOAA/NWS/NCEP

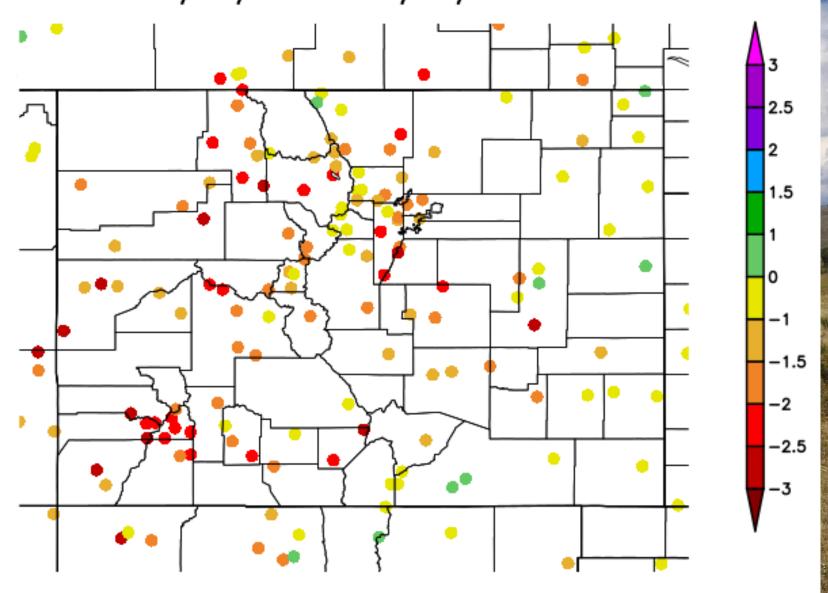




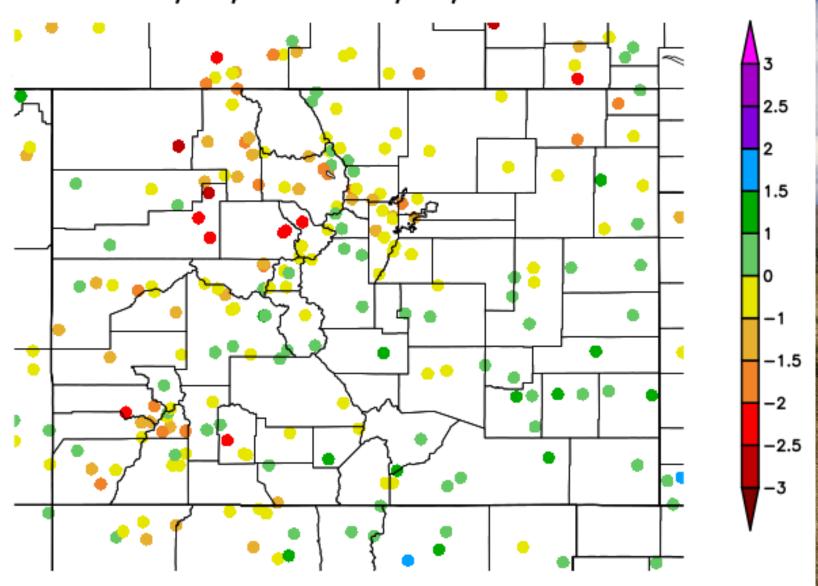




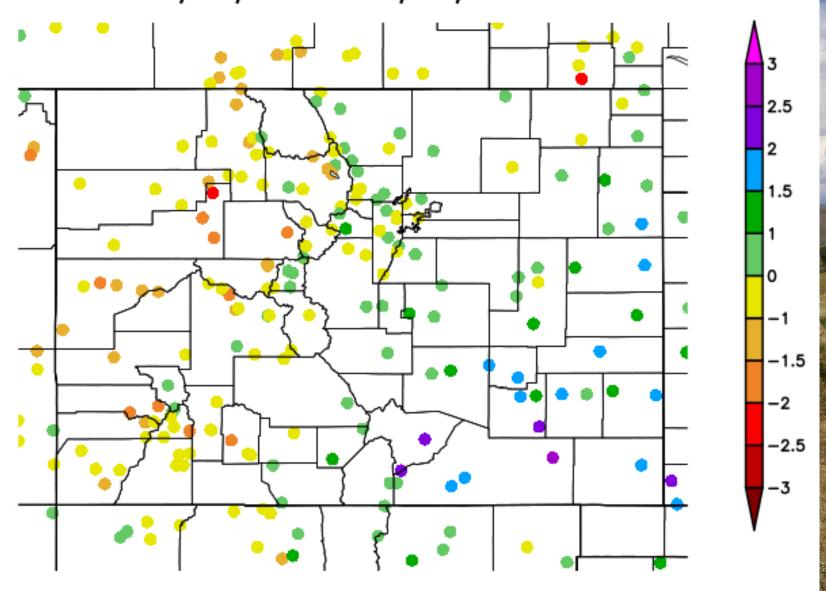
30 Day SPI 8/13/2017 - 9/11/2017



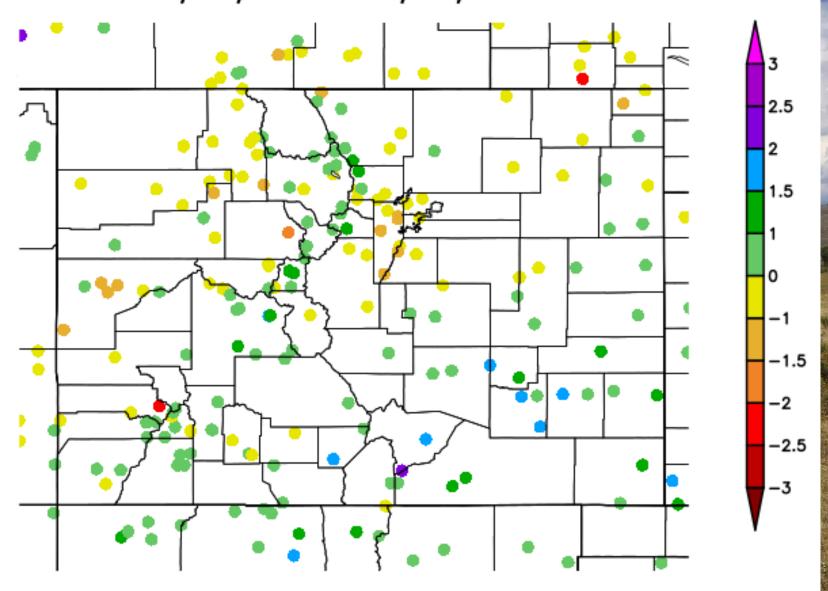
90 Day SPI 6/14/2017 - 9/11/2017



6 Month SPI 3/12/2017 - 9/11/2017

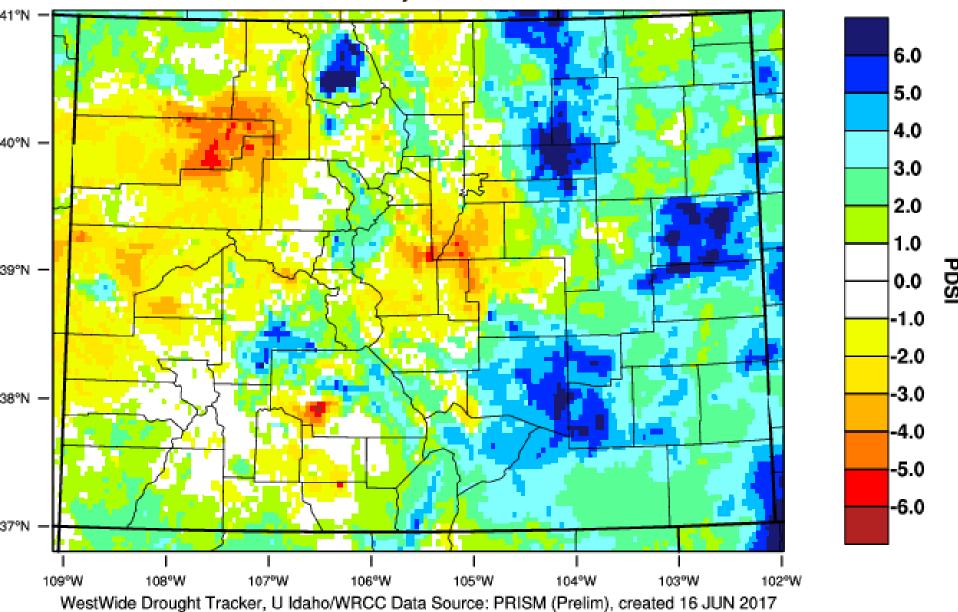


12 Month SPI 9/12/2016 - 9/11/2017



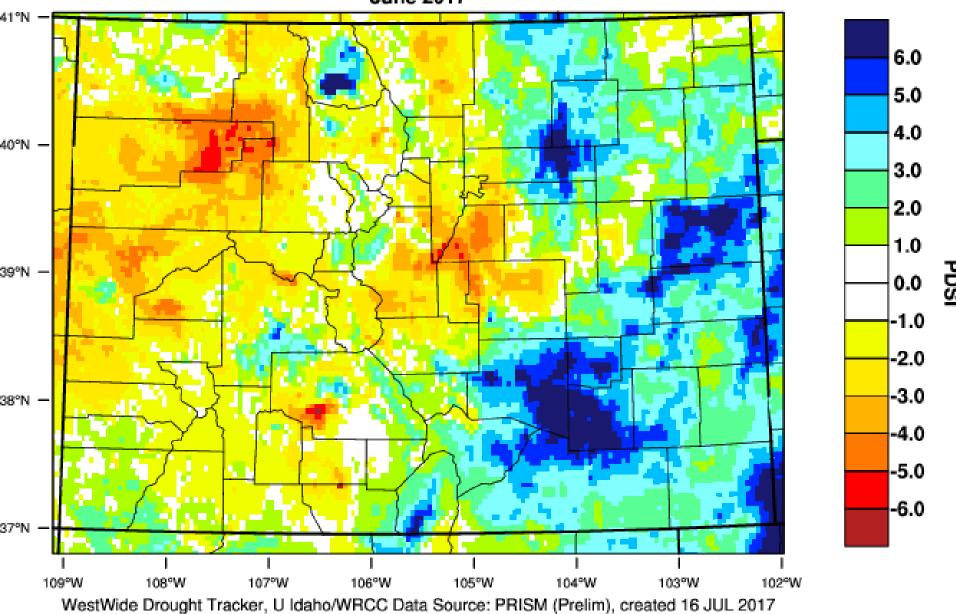
Colorado - PDSI



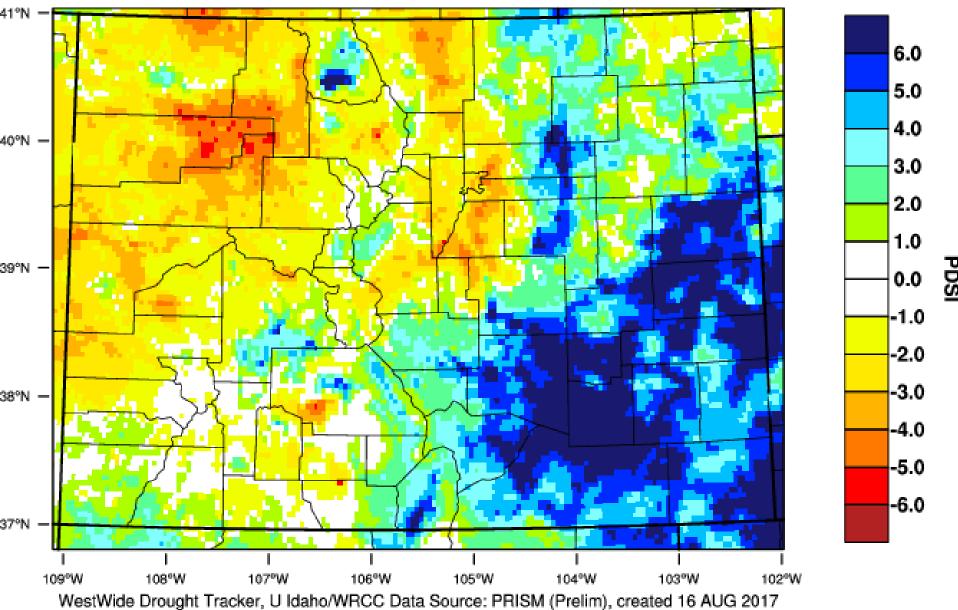


Colorado - PDSI

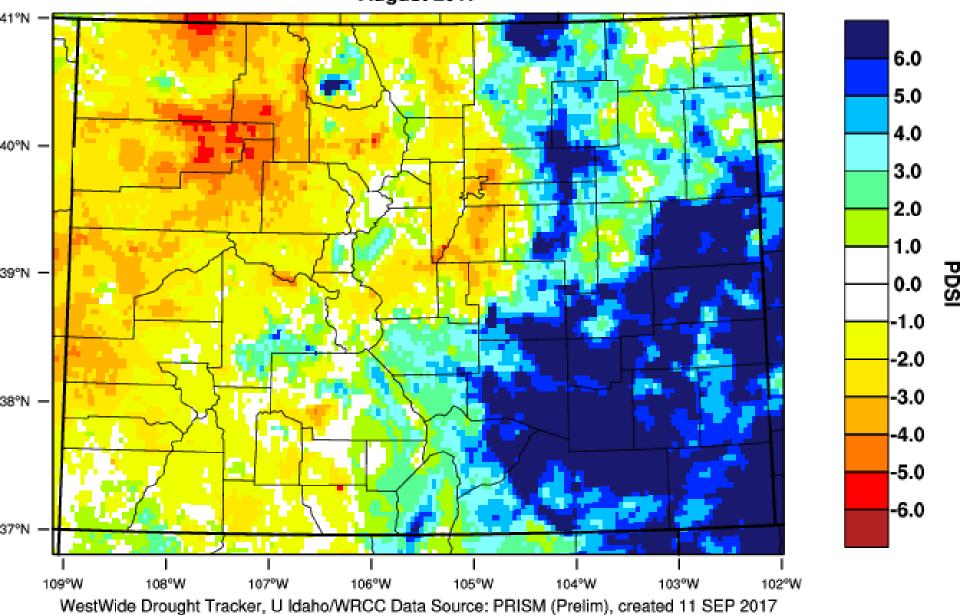




Colorado - PDSI July 2017



Colorado - PDSI August 2017



## Colorado Climate Center

Data and Power Point Presentations available for downloading

http://ccc.atmos.colostate.edu/droughtpresentations.php

