

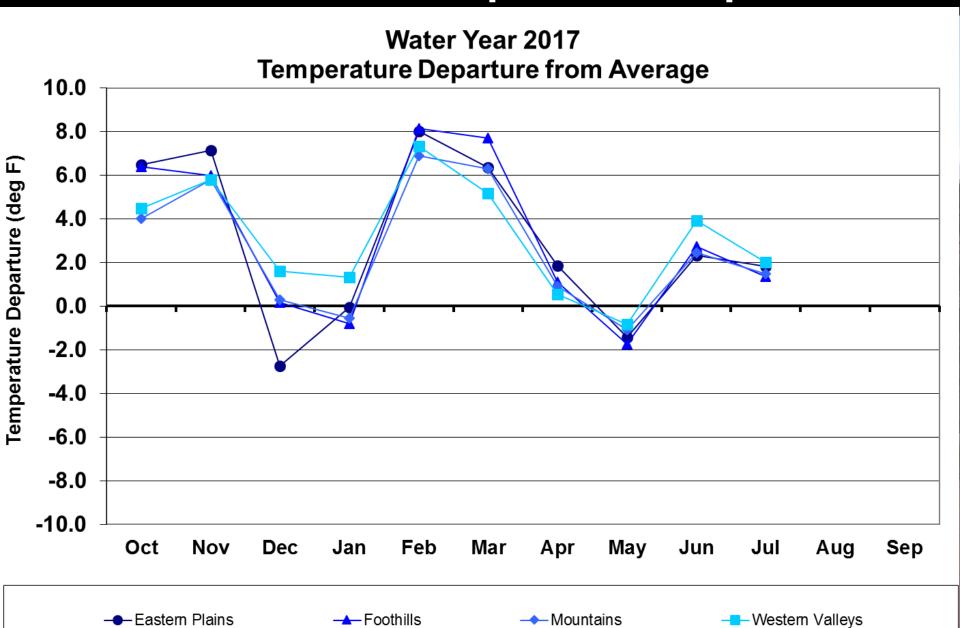
# CLIMATE CIMATE COLORADO CARRADO COLORADO COLORADO COLORAD



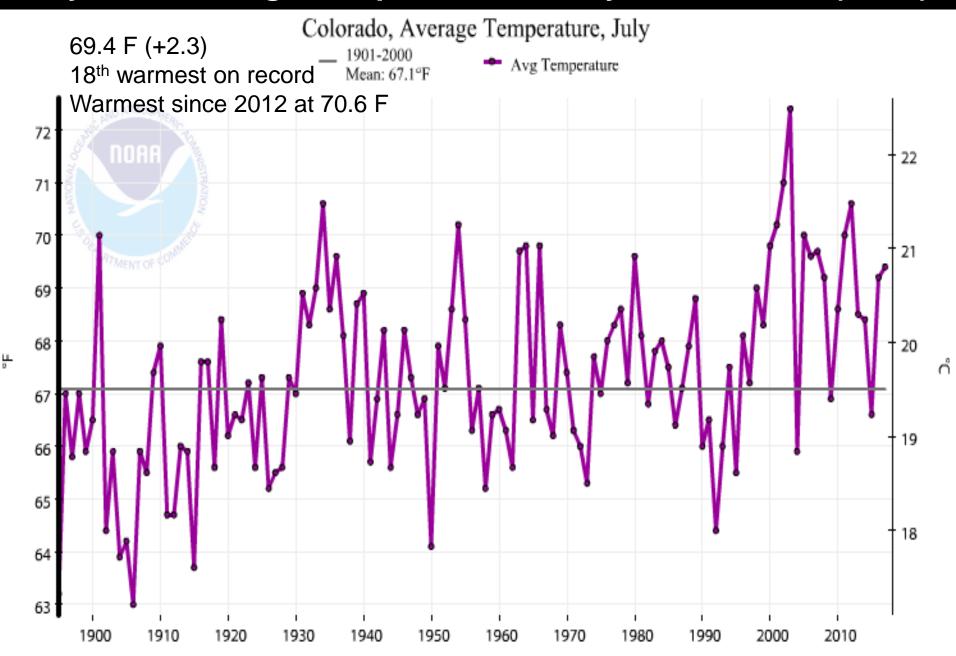
Nolan Doesken Colorado Climate Center

Presented to **Water Availability Task Force** August 17, 2017 Denver, CO

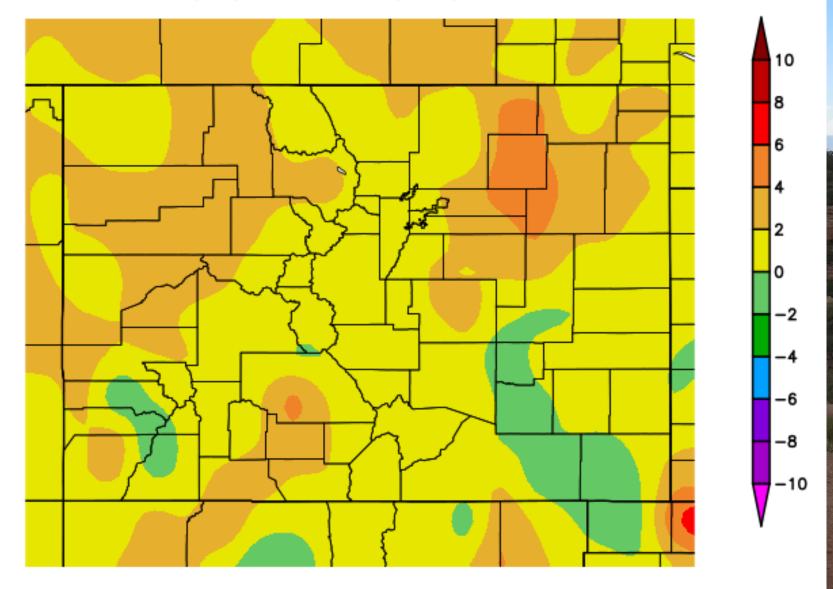
#### Water Year 2017 Temperature Departures



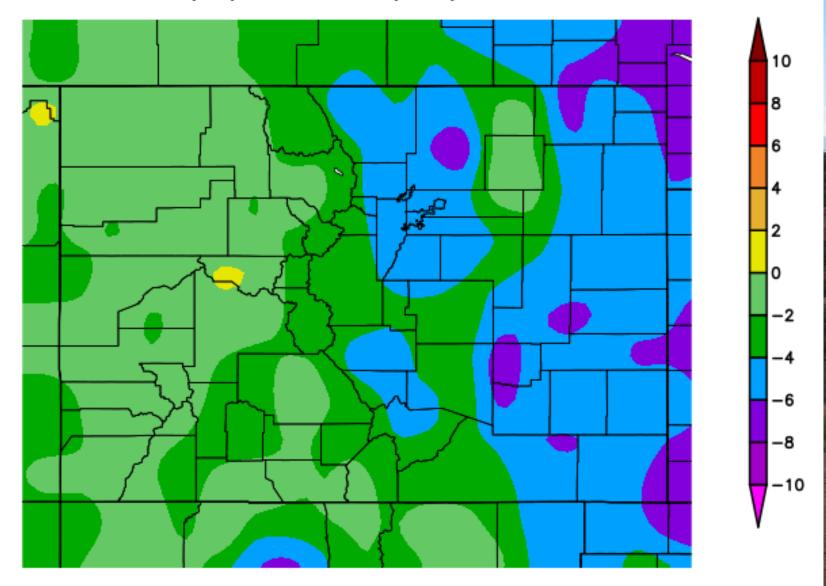
#### July 2017 Average Temperature History for Colorado (NCEI)



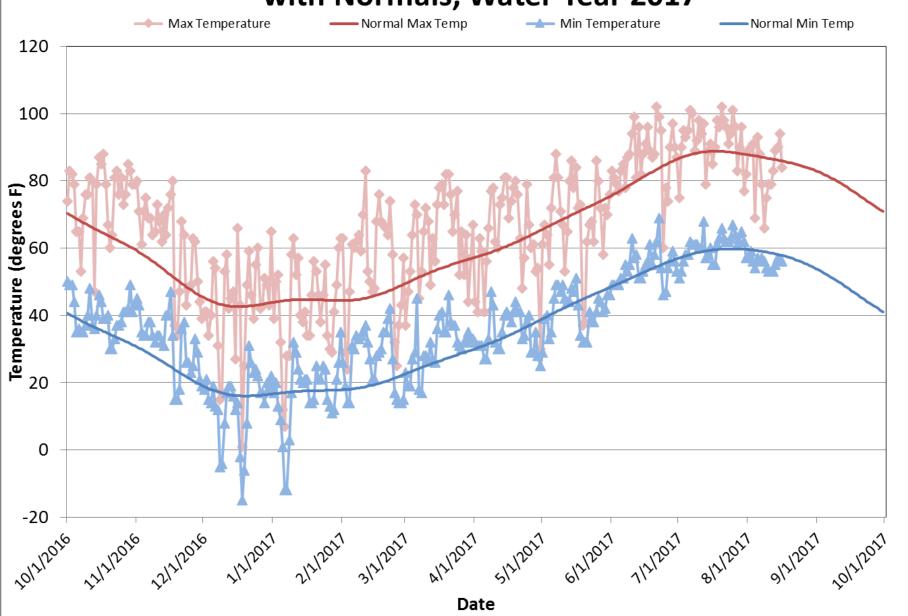
Departure from Normal Temperature (F) 7/1/2017 - 7/31/2017



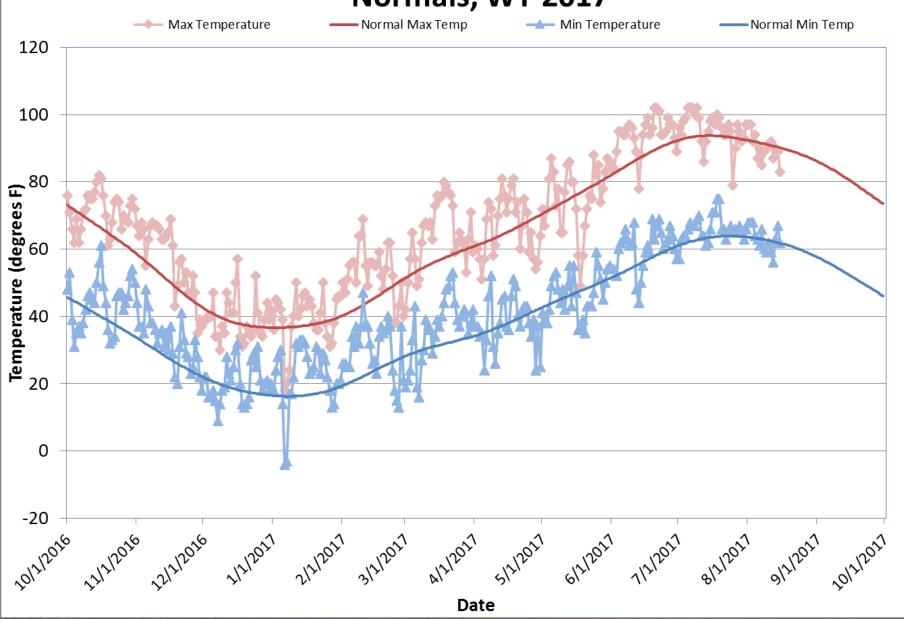
Departure from Normal Temperature (F) 8/1/2017 - 8/15/2017

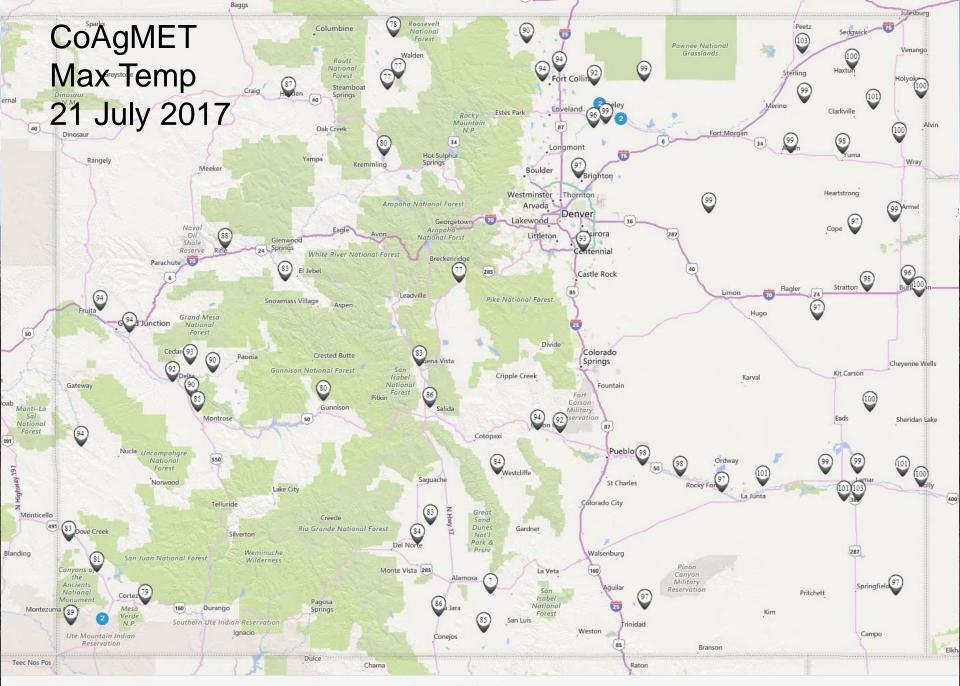


# Denver-Stapleton Daily Max/Min Temperatures with Normals, Water Year 2017

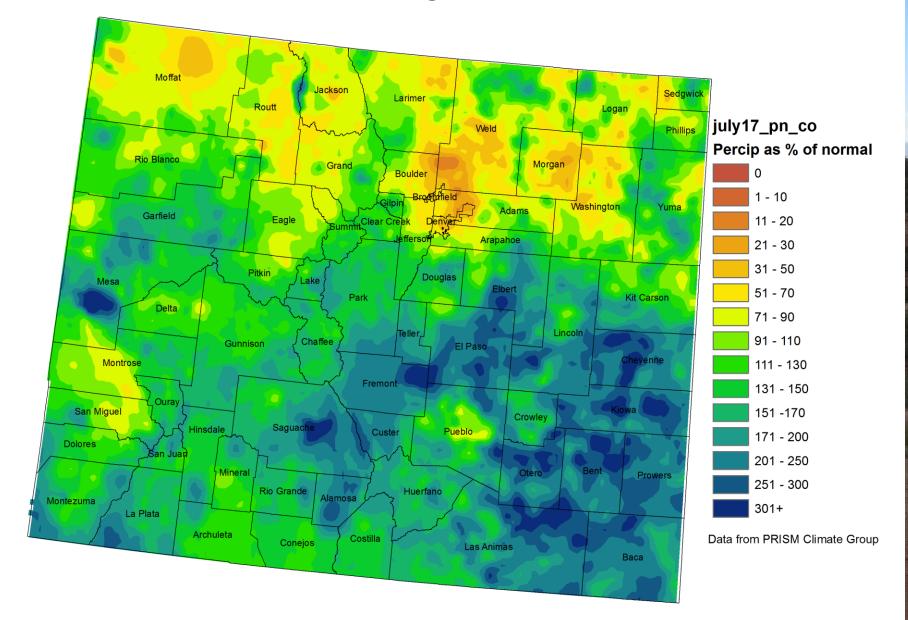


# Grand Junction Daily Max/Min Temperature with Normals, WY 2017

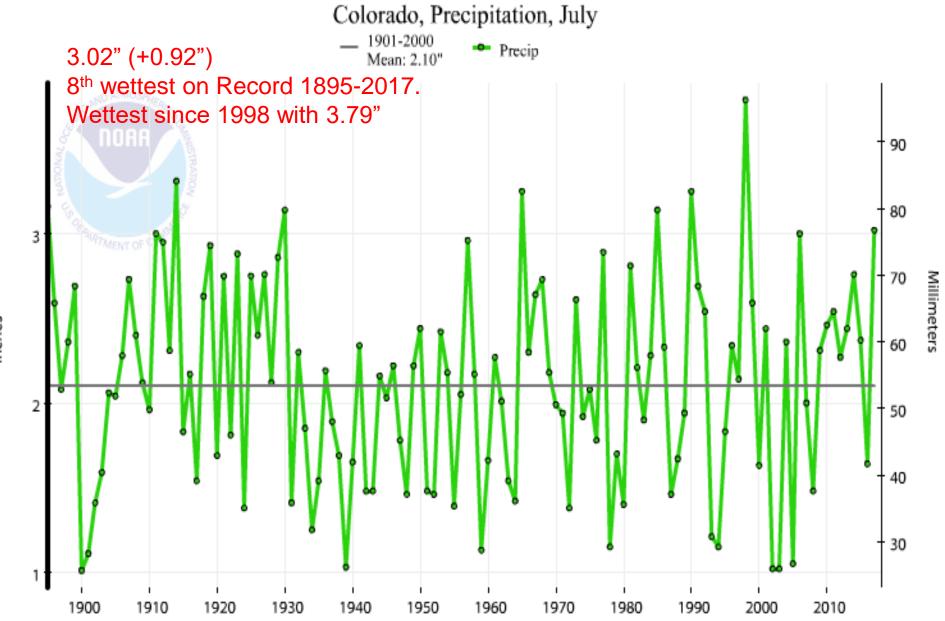




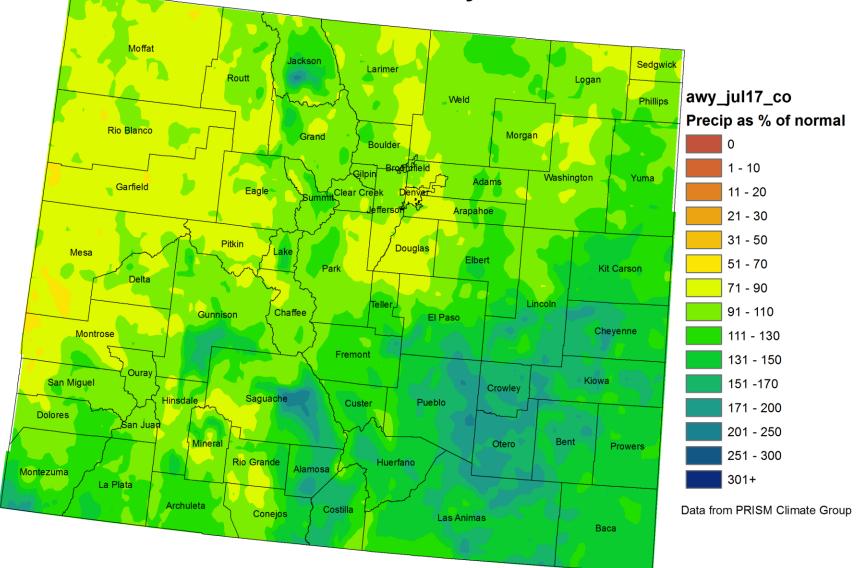
#### Colorado July 2017 Precipitation as a Percentage of Normal



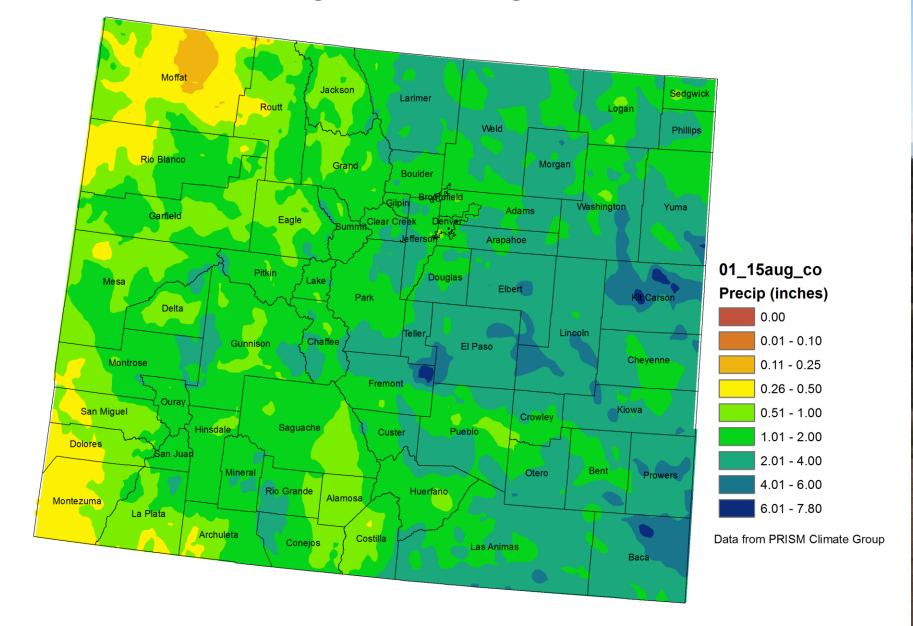
#### July 2017 Statewide Precipitation



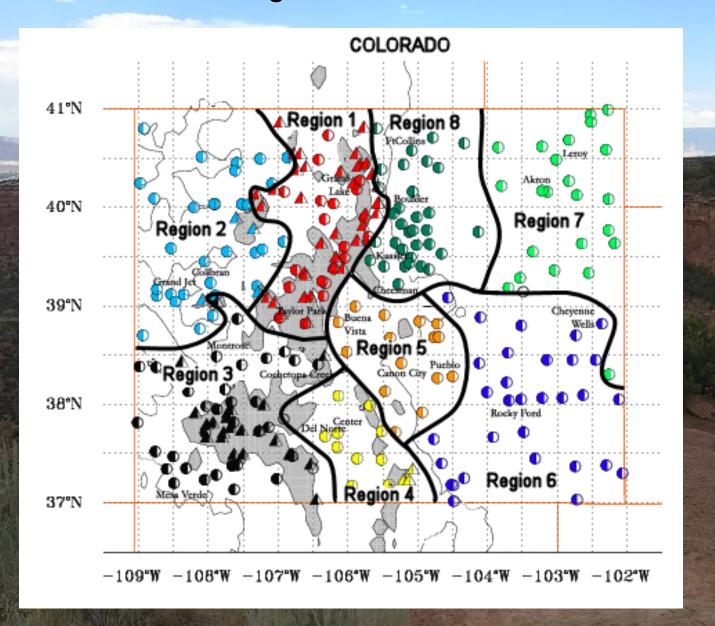
# Colorado Water Year 2017 Precipitation as a Percentage of Normal October 2016 - July 2017



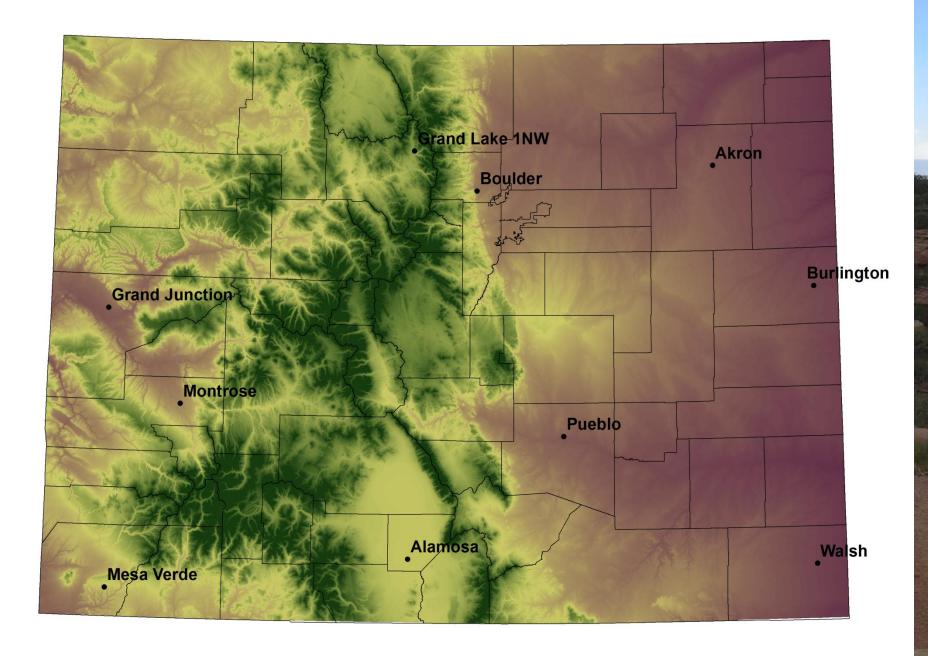
#### Colorado Month to Date Precipitation 1 - 15 August 2017 Ending 7AM MST



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

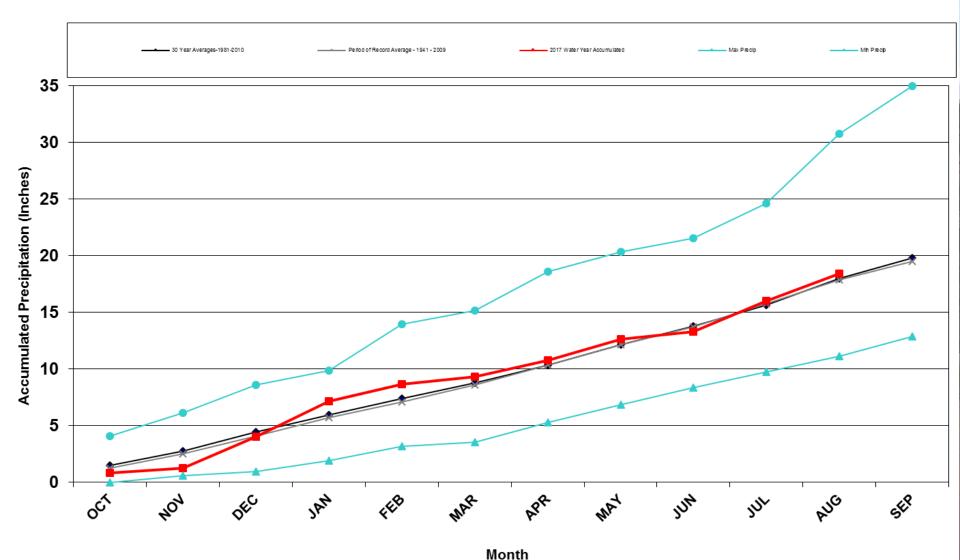


#### NWS Cooperative Stations for WATF



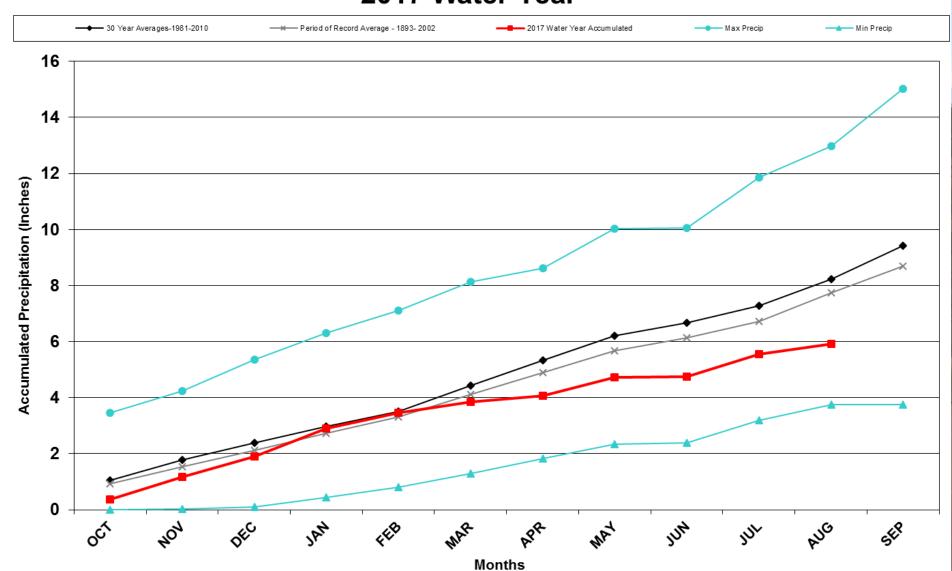
### Division 1 - Grand Lake 1NW

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



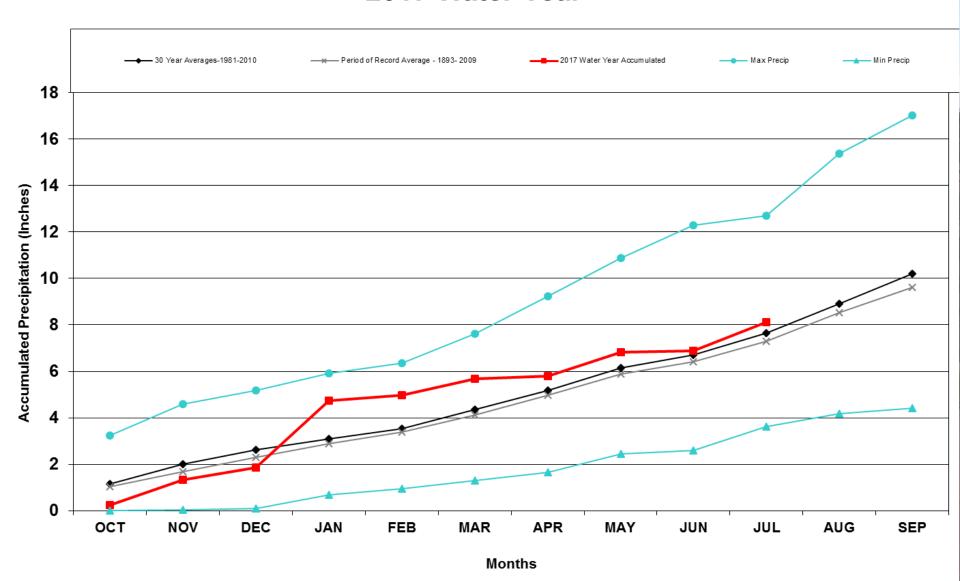
#### Division 2 - Grand Junction

## **Grand Junction WSFO 2017 Water Year**



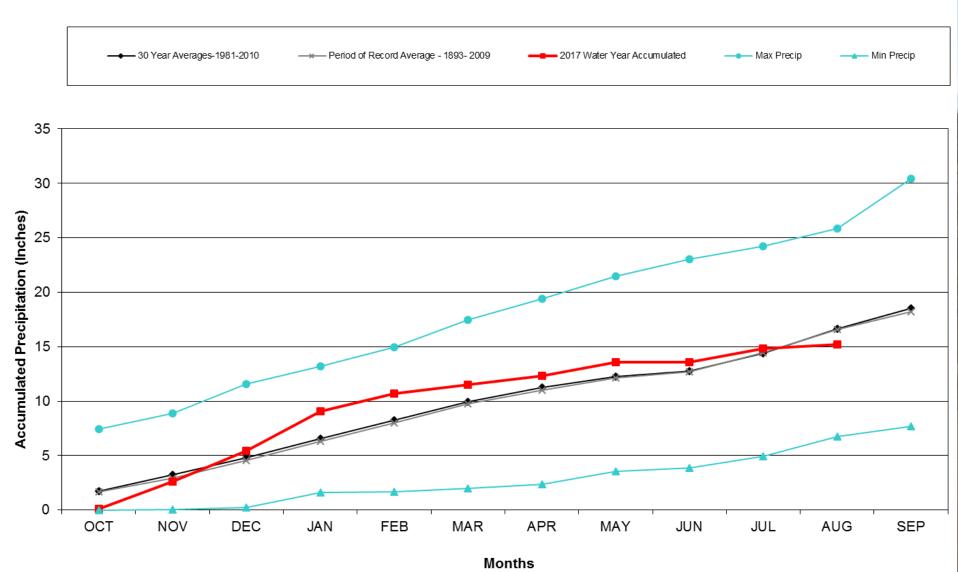
### Division 3 – Montrose

# Montrose #2 2017 Water Year



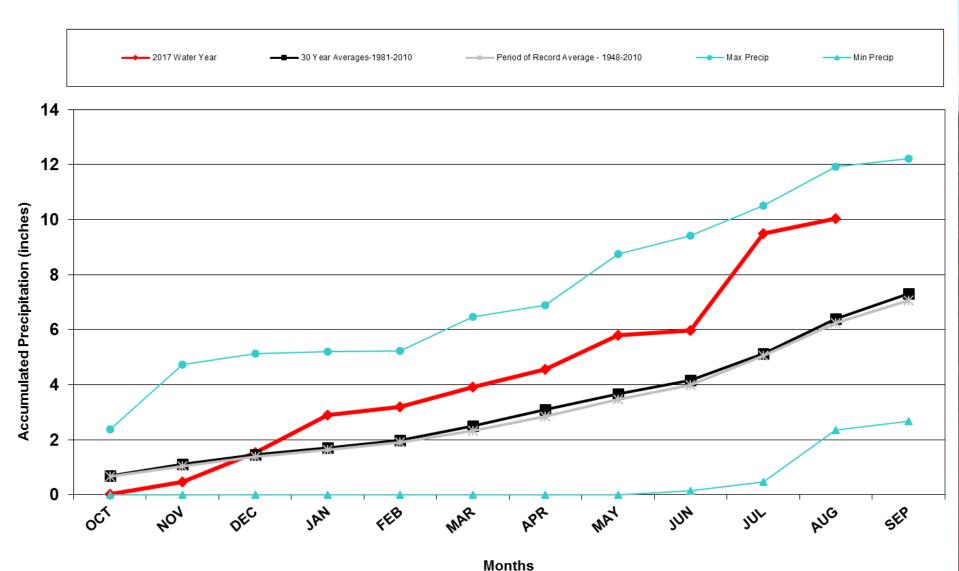
## Division 3 - Mesa Verde NP

## Mesa Verde NP 2017 Water Year



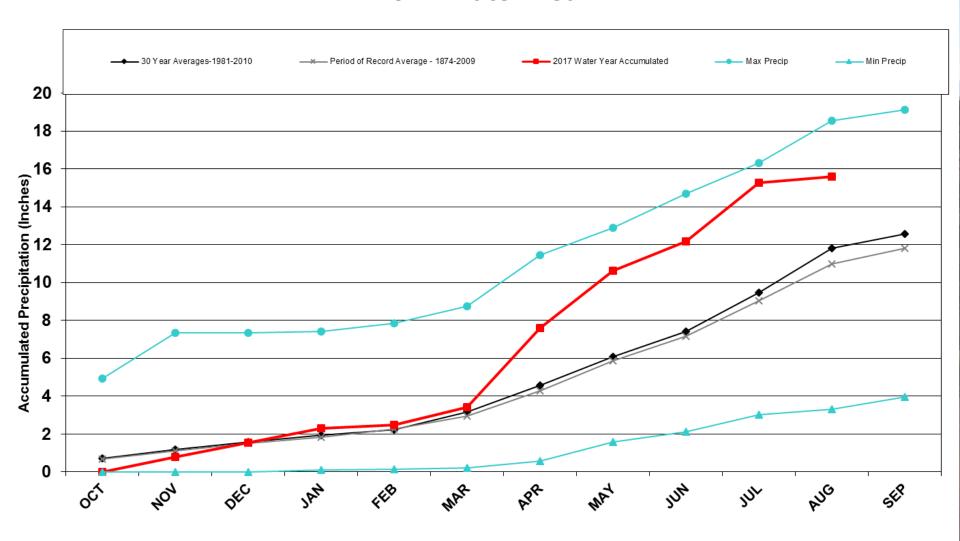
#### Division 4 – Alamosa

# Alamosa WSO 2017 Water Year



### Division 5 - Pueblo

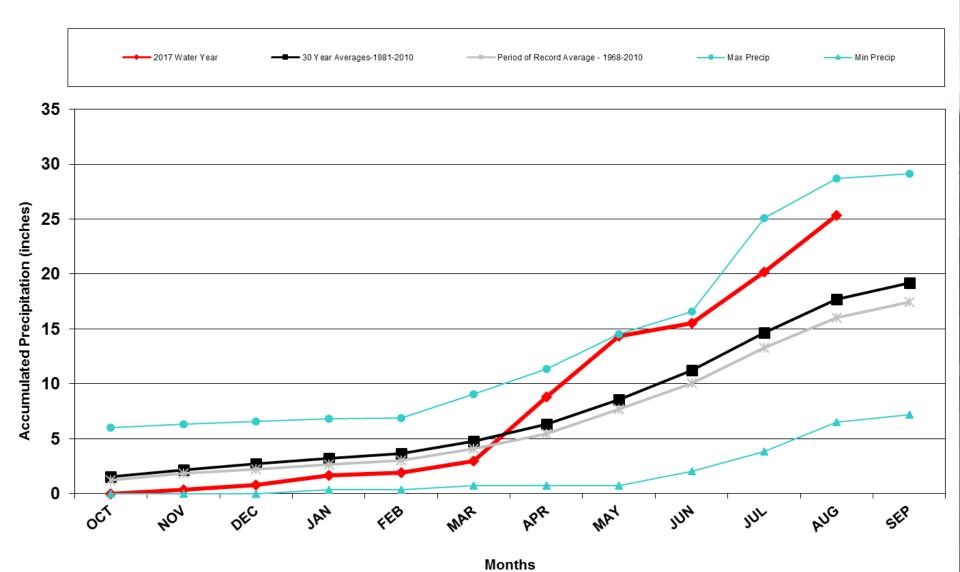
### Pueblo WSO 2017 Water Year



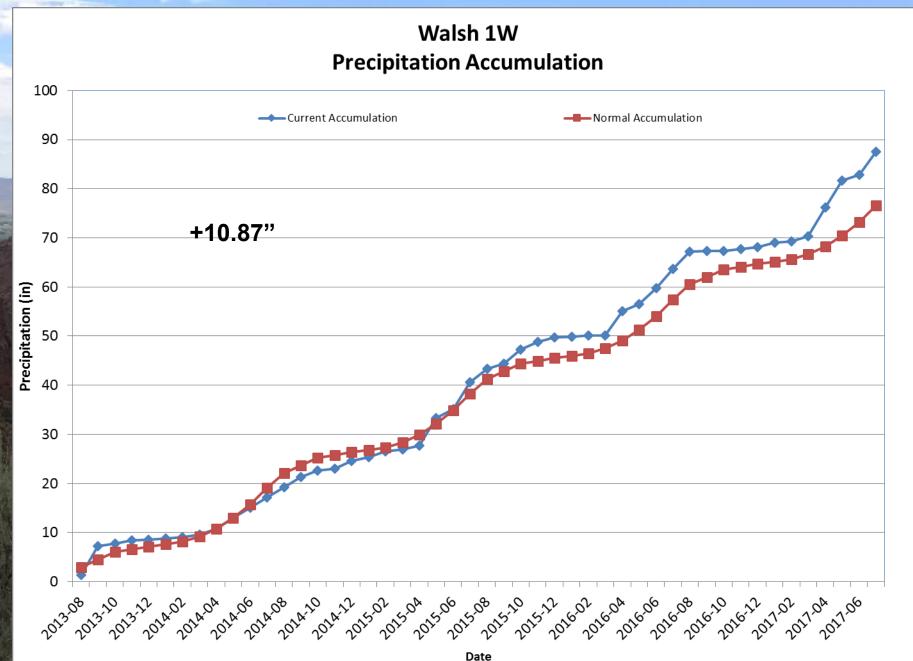
Months

#### Division 6 - Walsh

#### Walsh 2017 Water Year

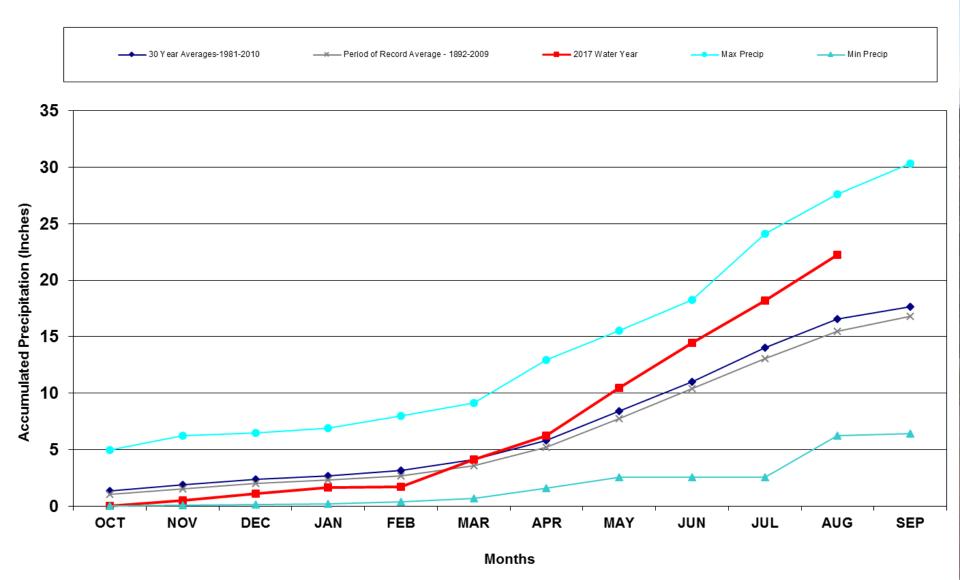


#### Division 6 - Walsh



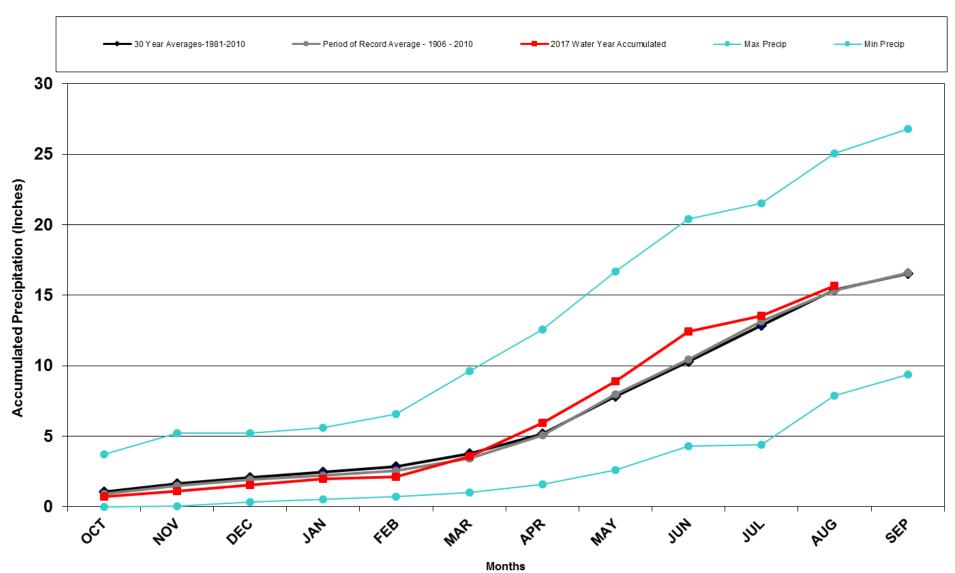
## Division 6 - Burlington

# Burlington 2017 Water Year



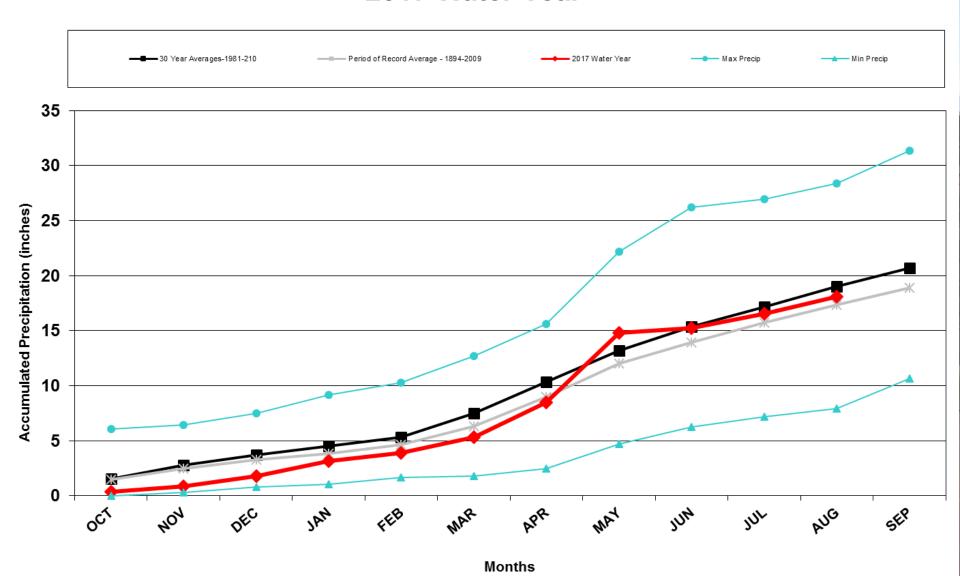
#### Division 7 – Akron

#### Akron 4E 2016 Water Year

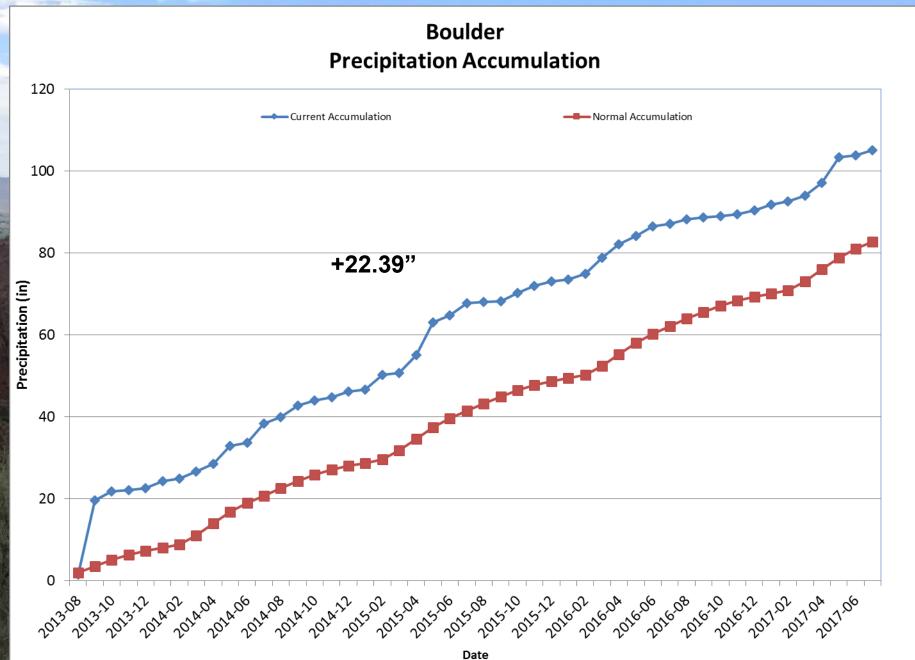


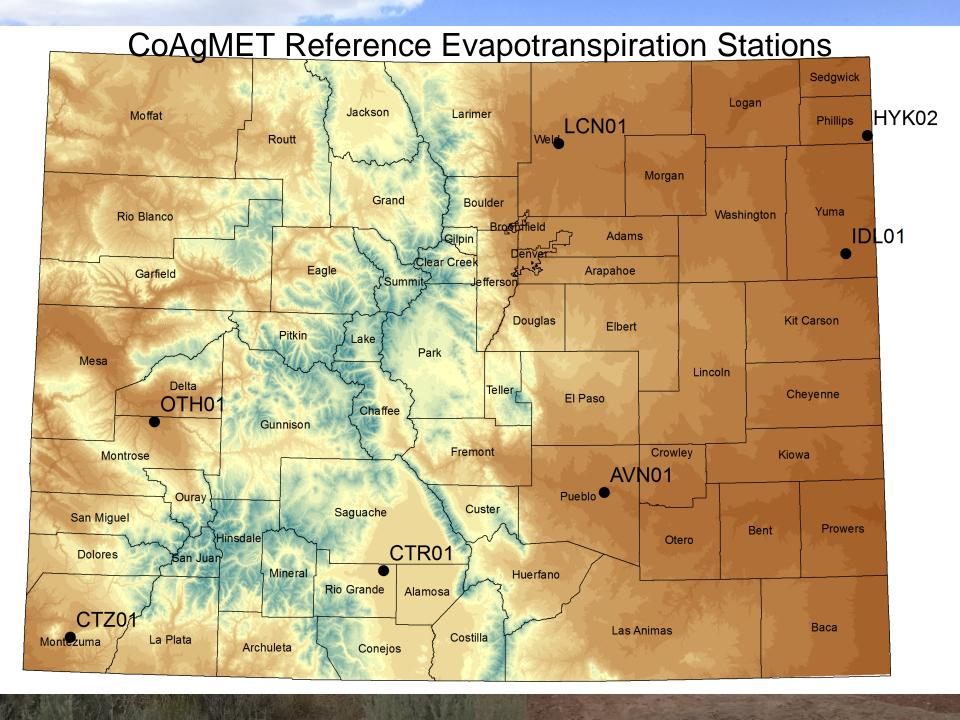
### Division 8 - Boulder

# Boulder 2017 Water Year

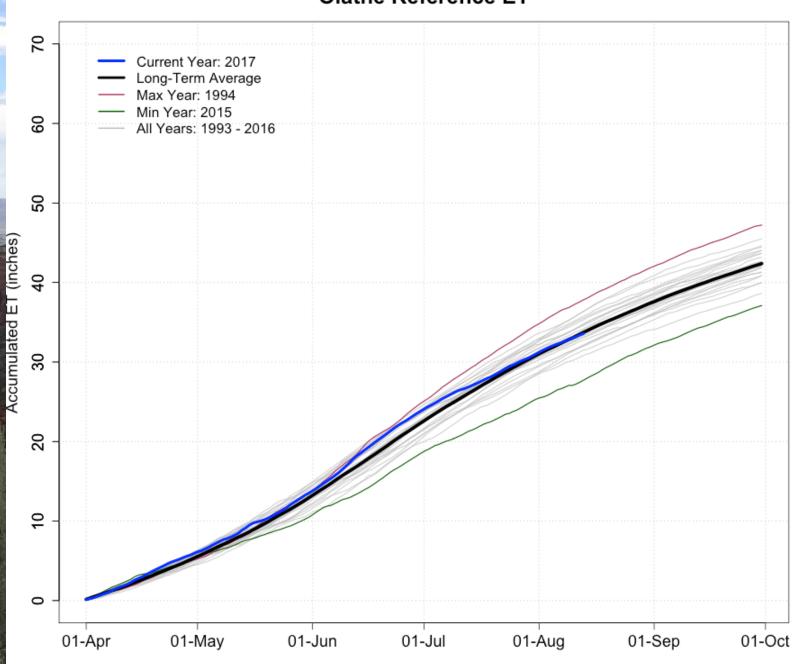


#### Division 8 - Boulder

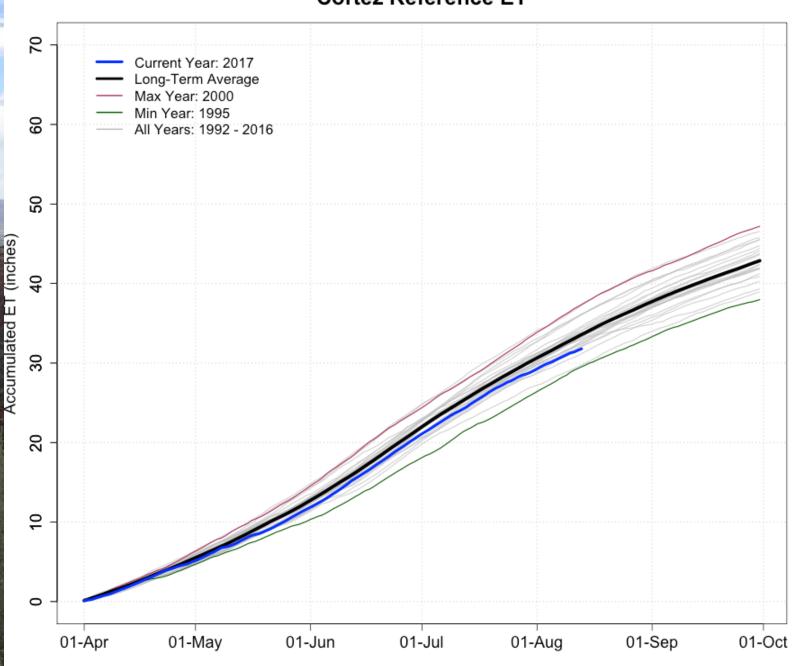




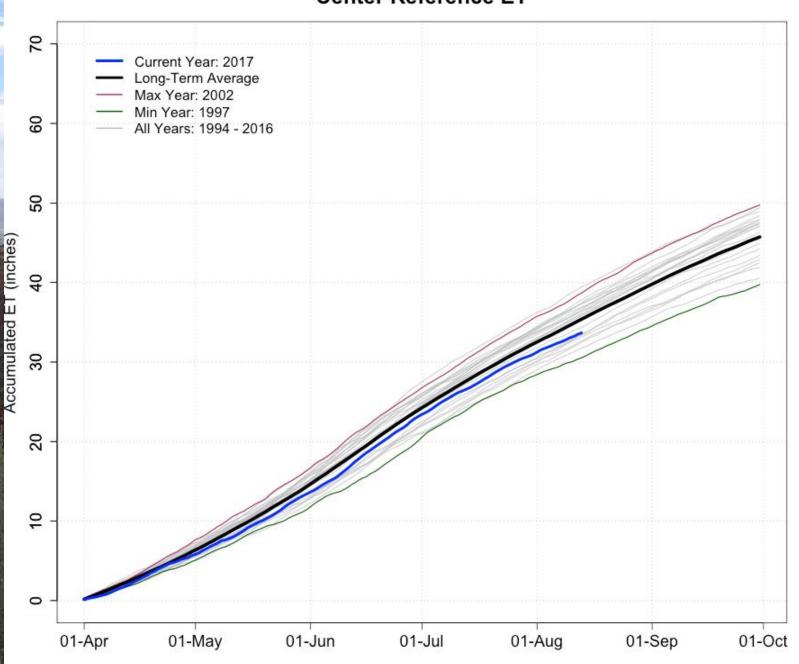
#### **Olathe Reference ET**



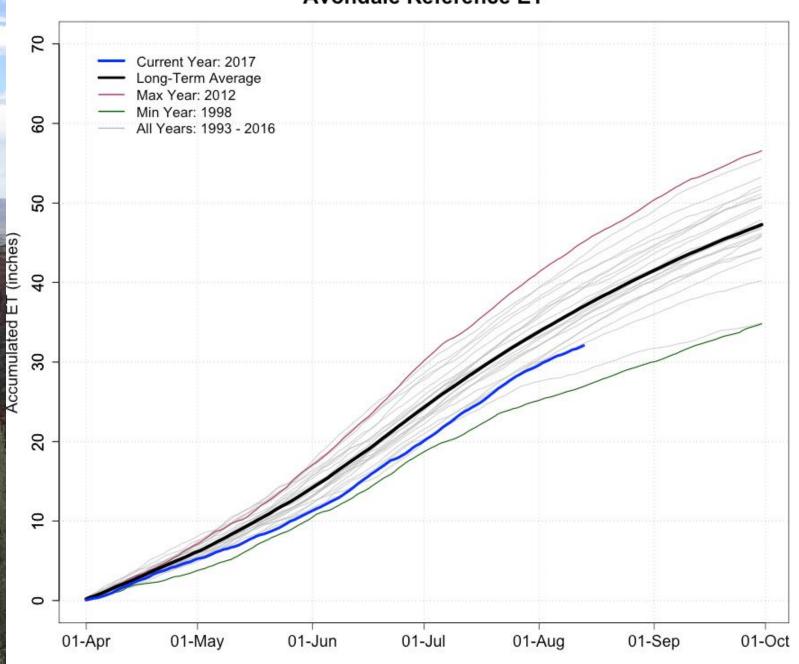
#### **Cortez Reference ET**



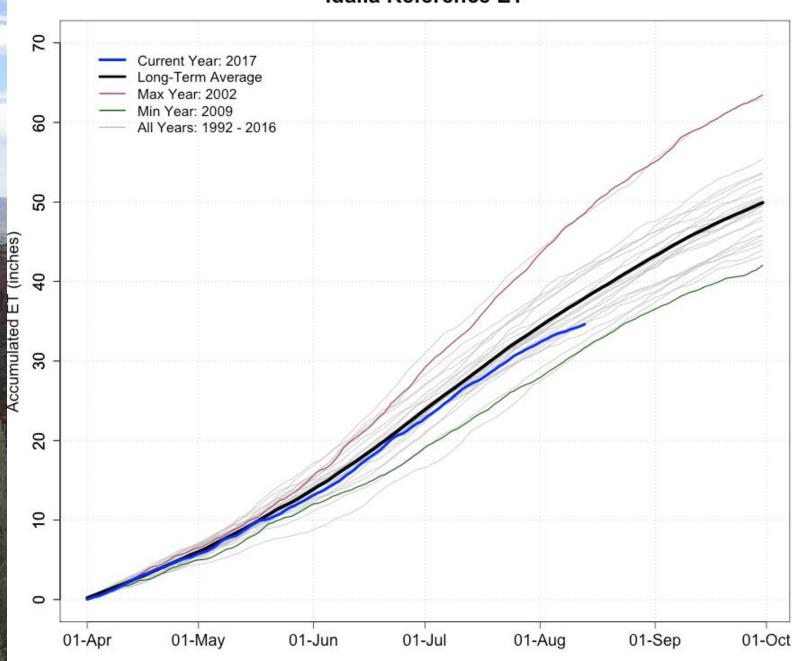
#### Center Reference ET



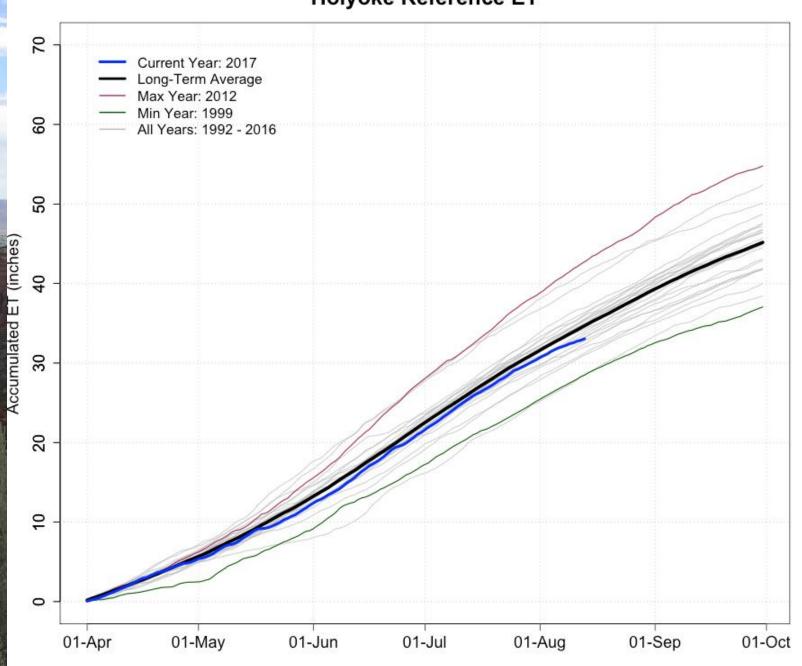
#### **Avondale Reference ET**



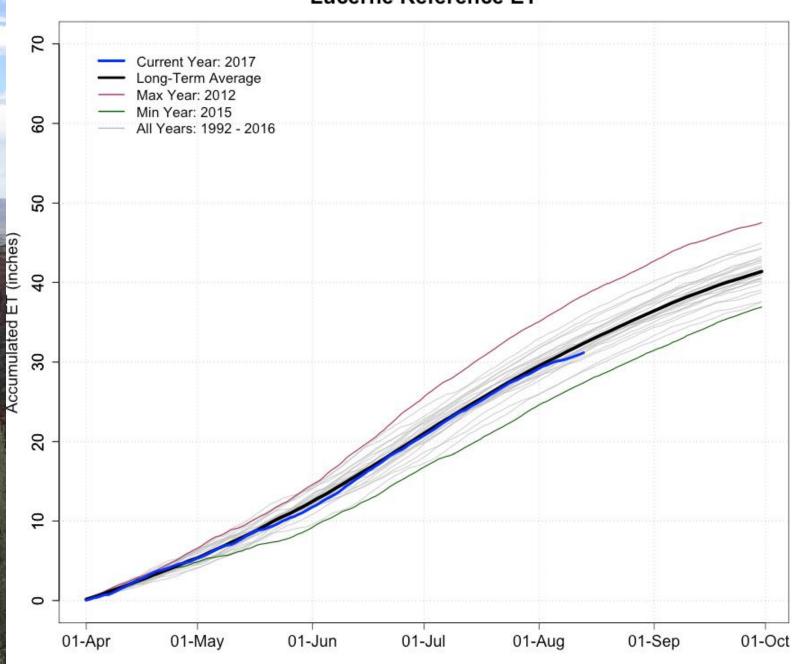
#### Idalia Reference ET

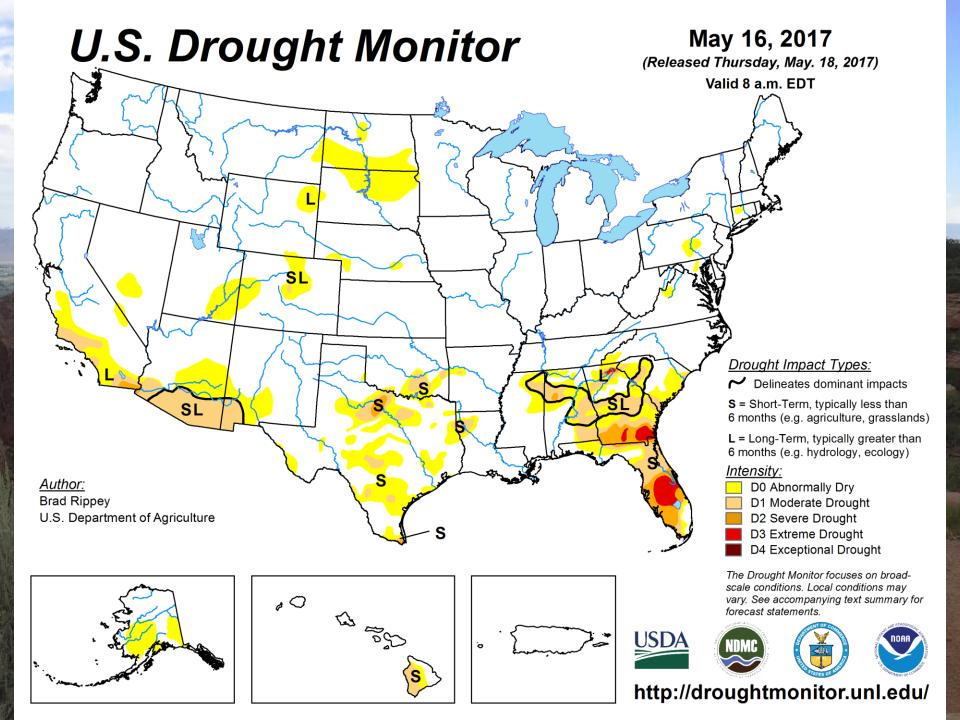


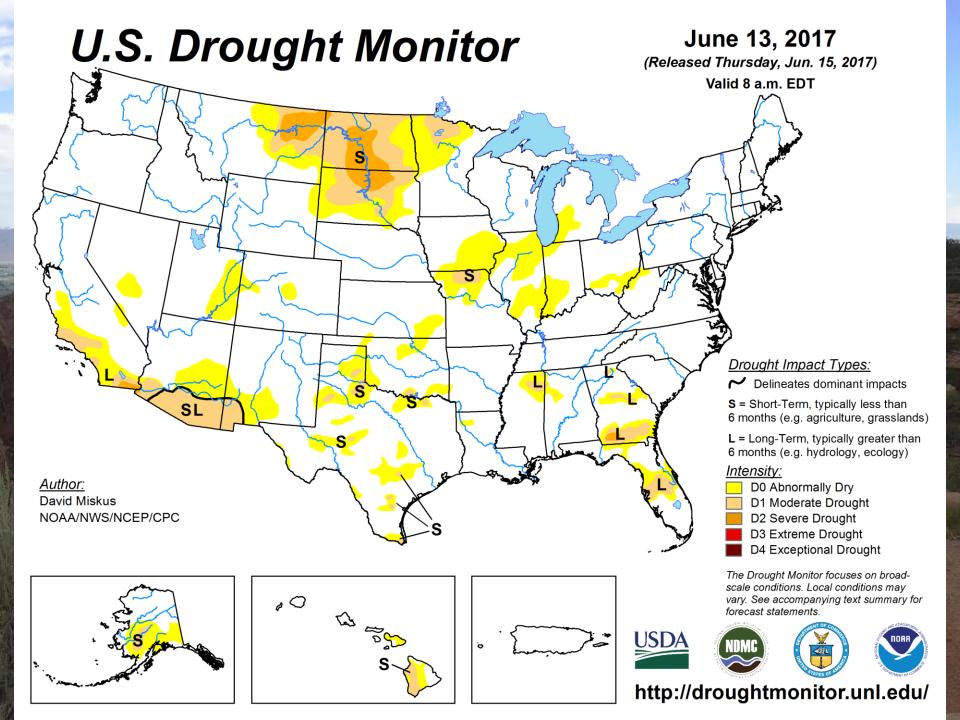
#### Holyoke Reference ET

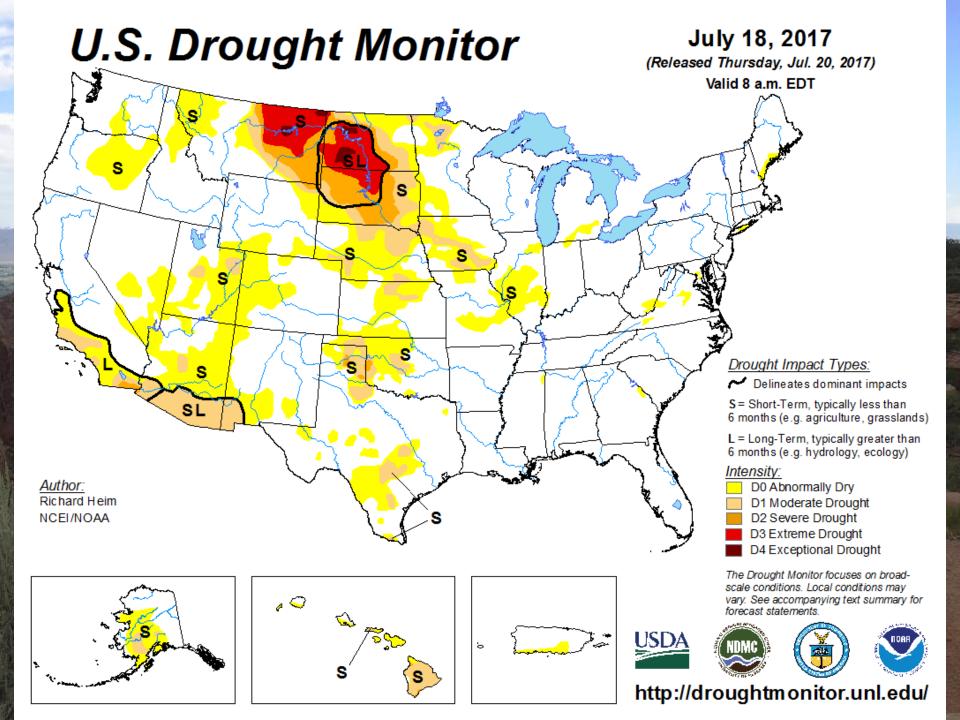


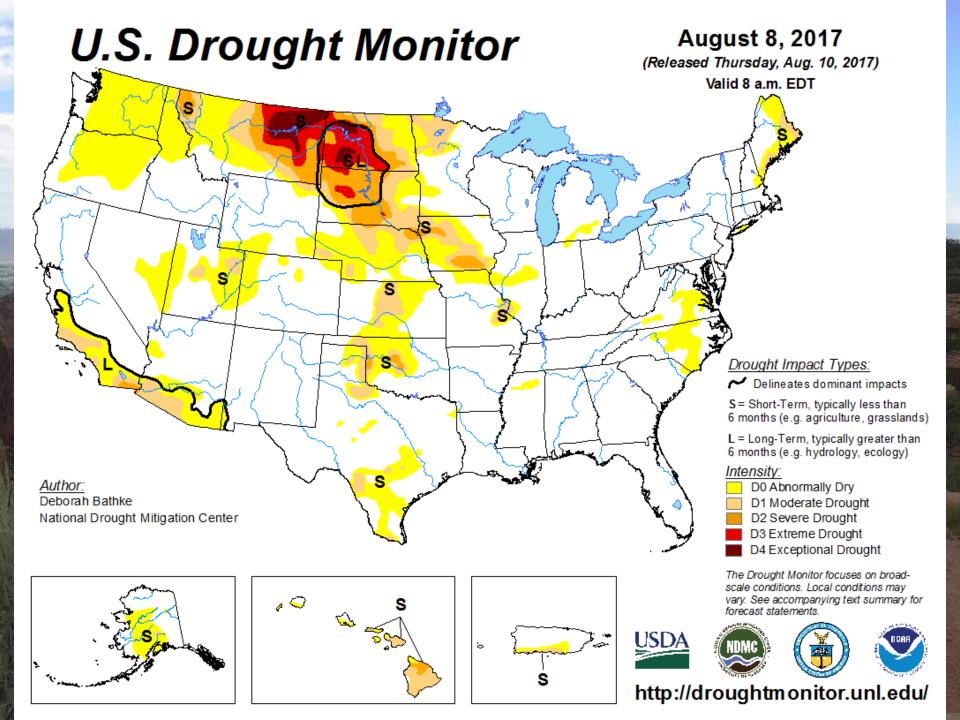
#### Lucerne Reference ET



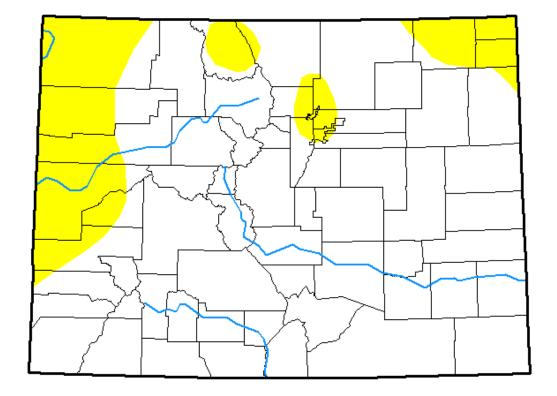








# U.S. Drought Monitor Colorado



### **August 8, 2017**

(Released Thursday, Aug. 10, 2017)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	82.69	17.31	0.00	0.00	0.00	0.00
Last Week 08-01-2017	79.02	20.98	0.00	0.00	0.00	0.00
3 Month s Ago 05-09-2017	87.62	12.38	2.19	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 08-09-2016	73.34	26.66	0.38	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:

Deborah Bathke National Drought Mitigation Center



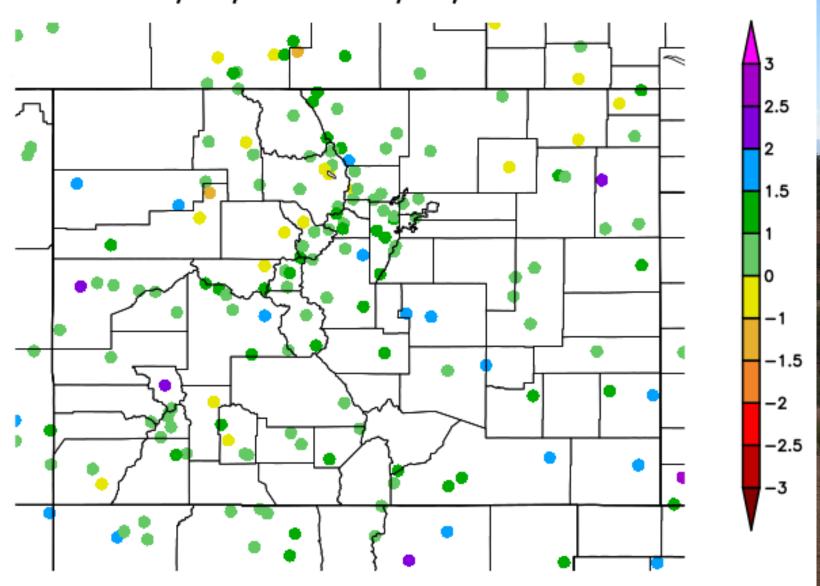




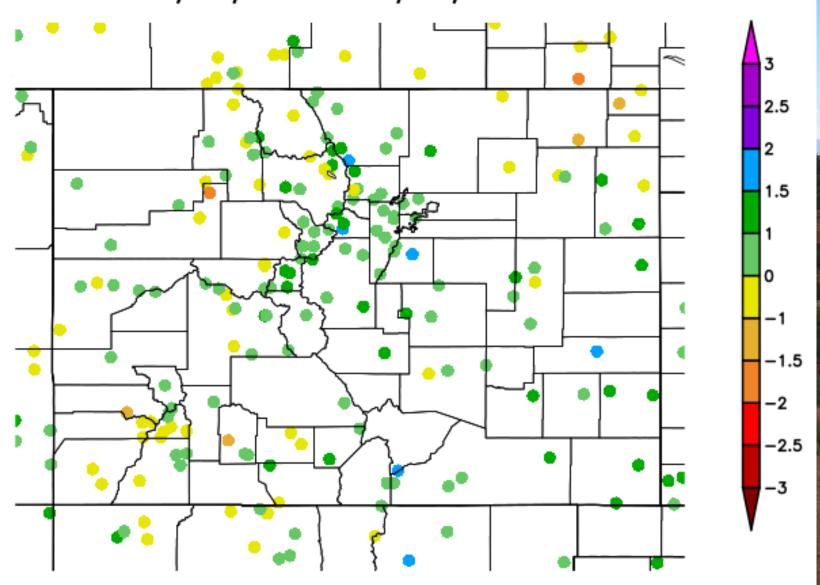


http://droughtmonitor.unl.edu/

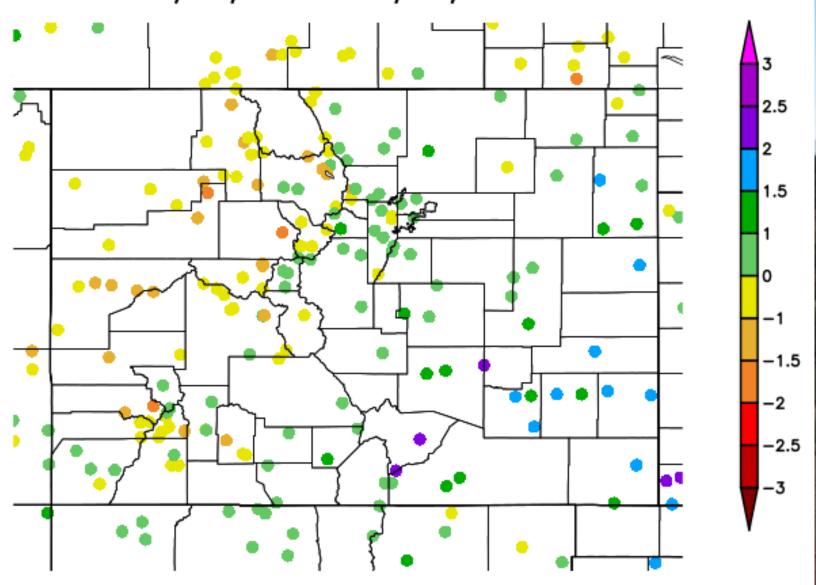
30 Day SPI 7/17/2017 - 8/15/2017



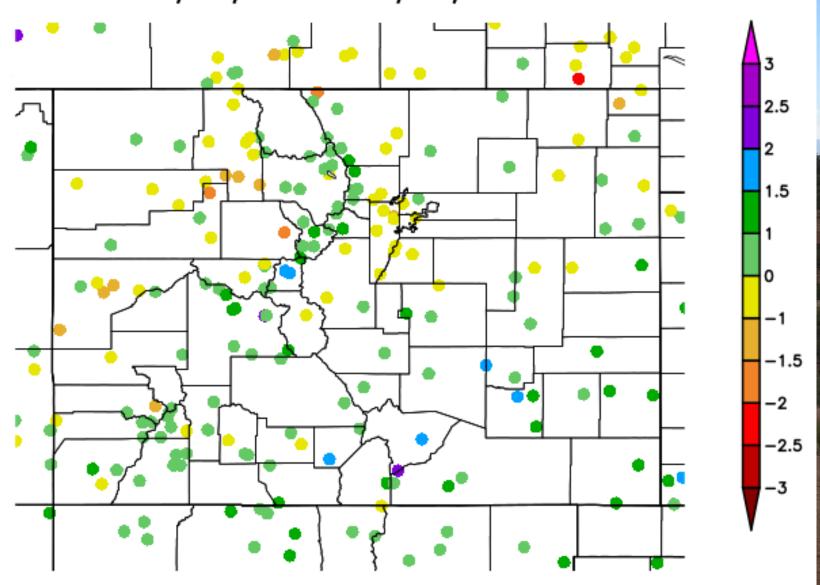
90 Day SPI 5/18/2017 - 8/15/2017



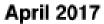
6 Month SPI 2/16/2017 - 8/15/2017

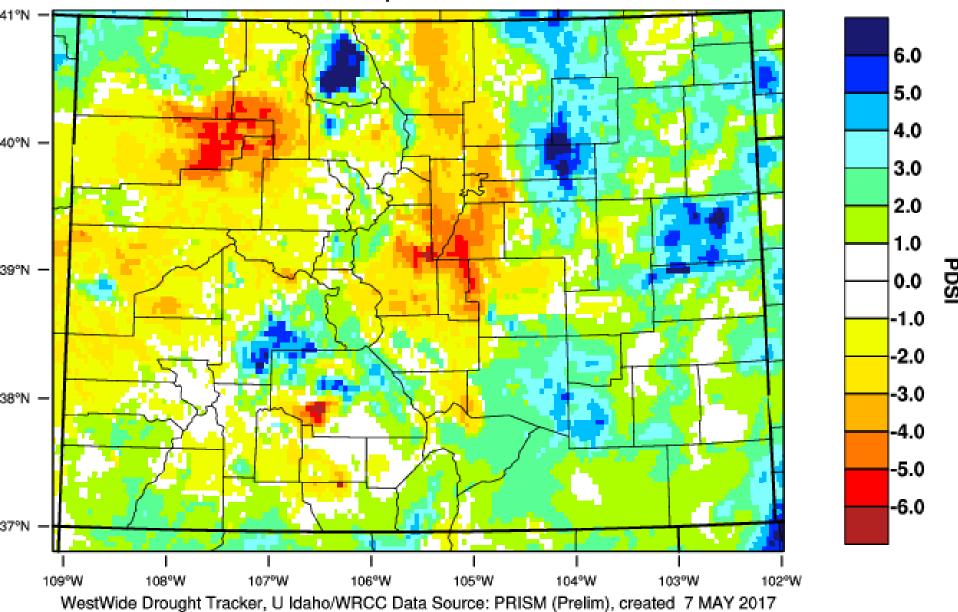


12 Month SPI 8/16/2016 - 8/15/2017



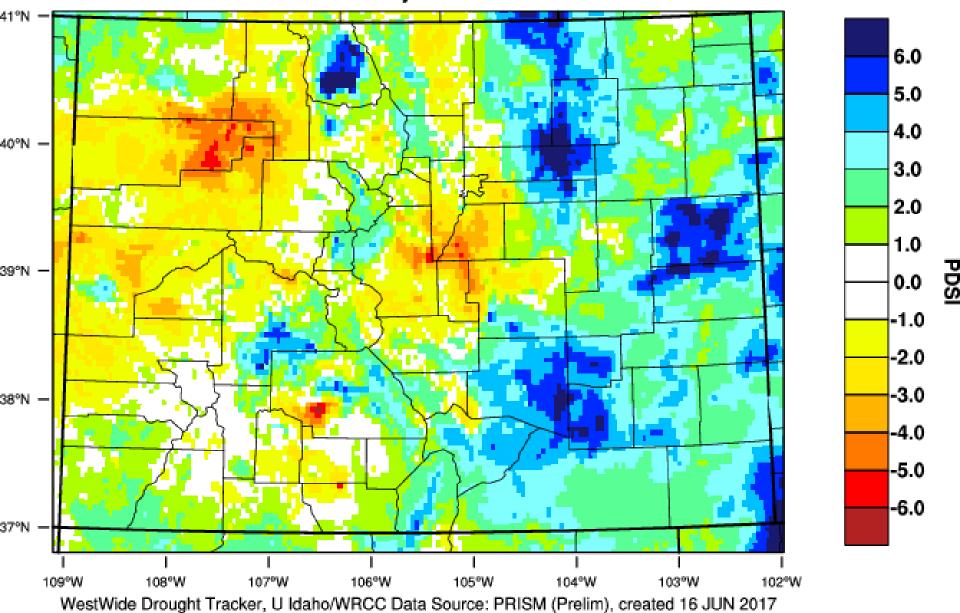
Colorado - PDSI





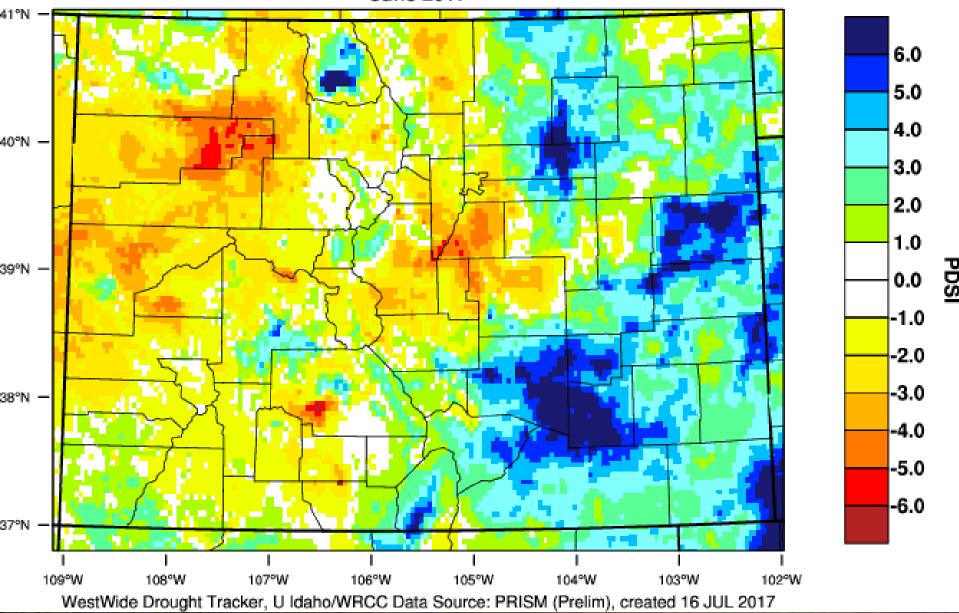
Colorado - PDSI

May 2017

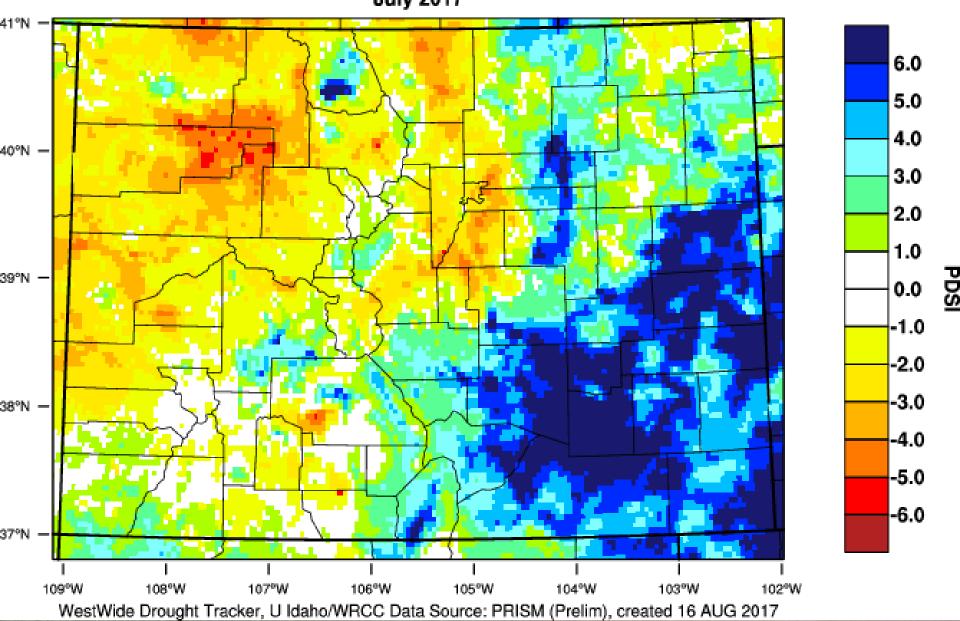


Colorado - PDSI



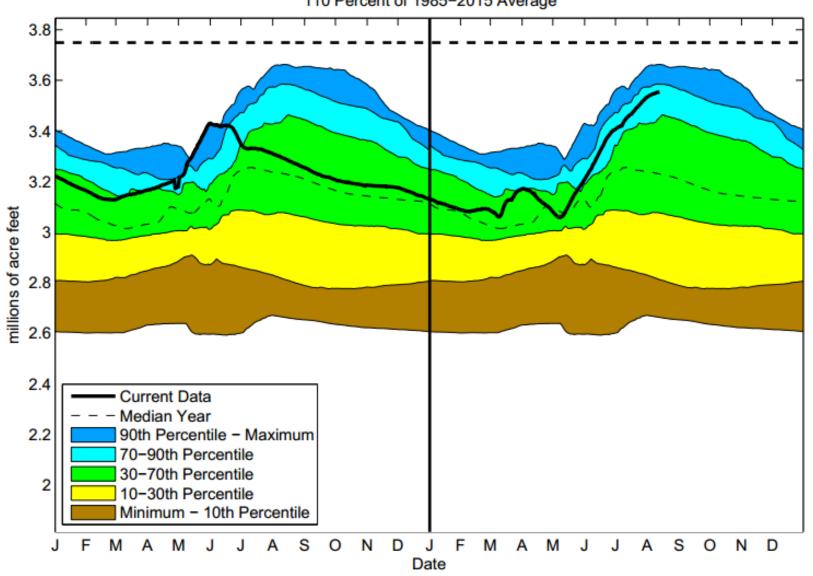


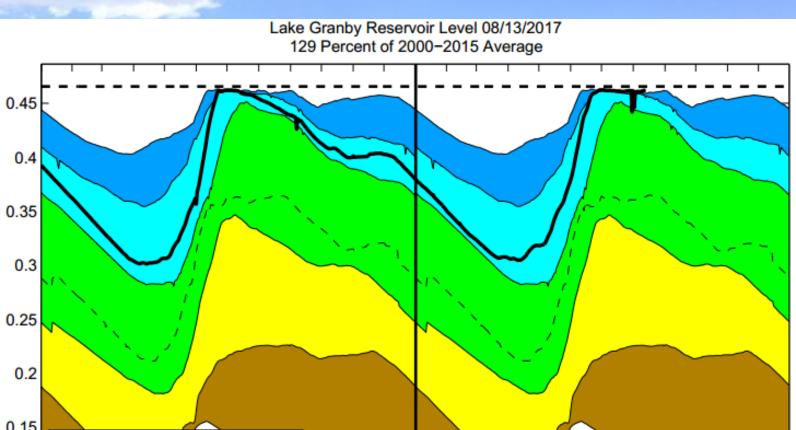
Colorado - PDSI July 2017

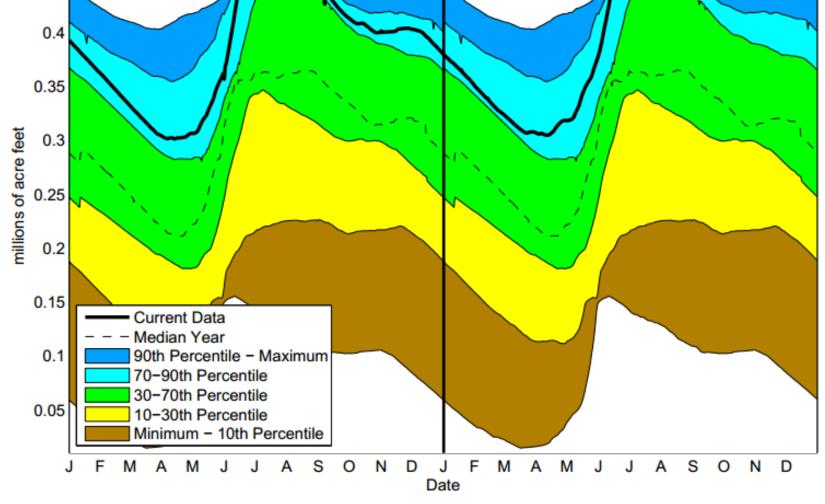


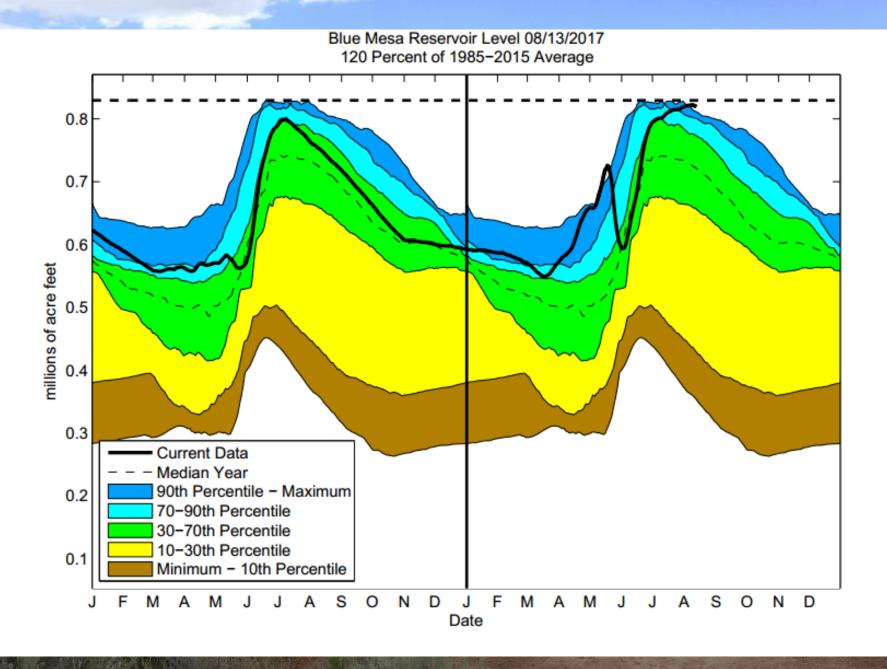
## Reservoir Levels

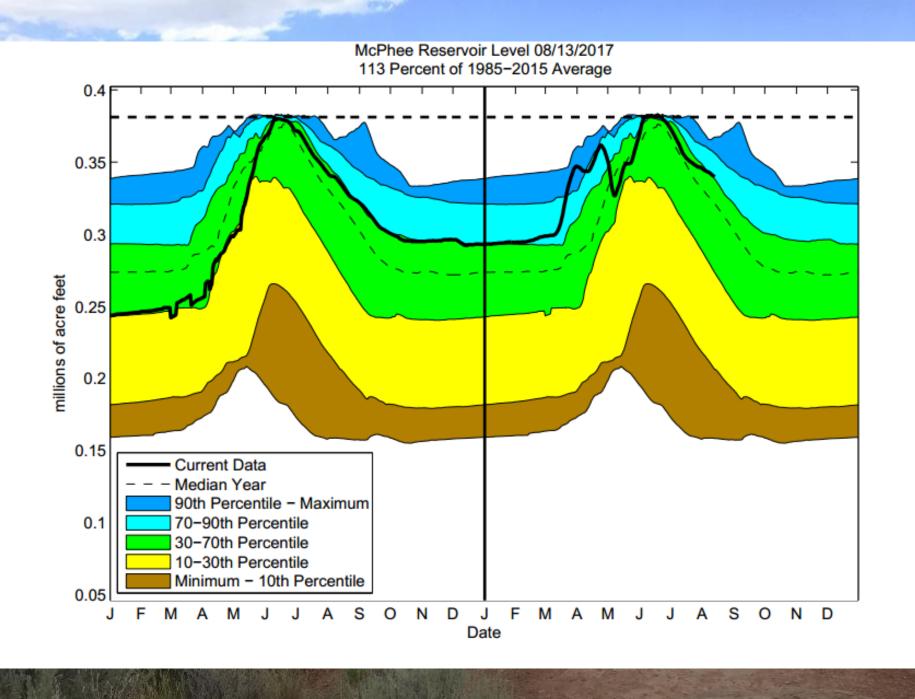
Flaming Gorge Reservoir Level 08/13/2017 110 Percent of 1985–2015 Average

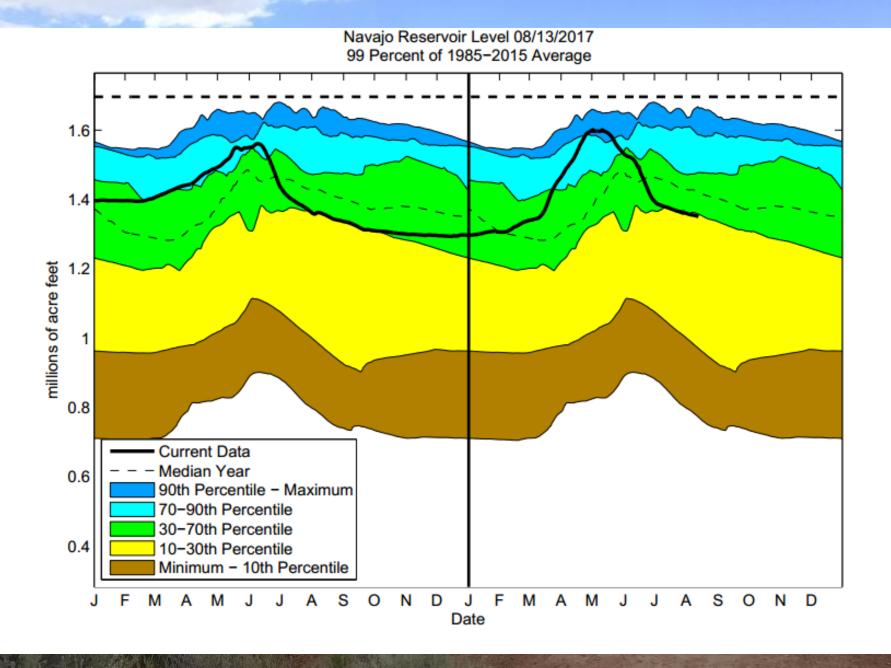


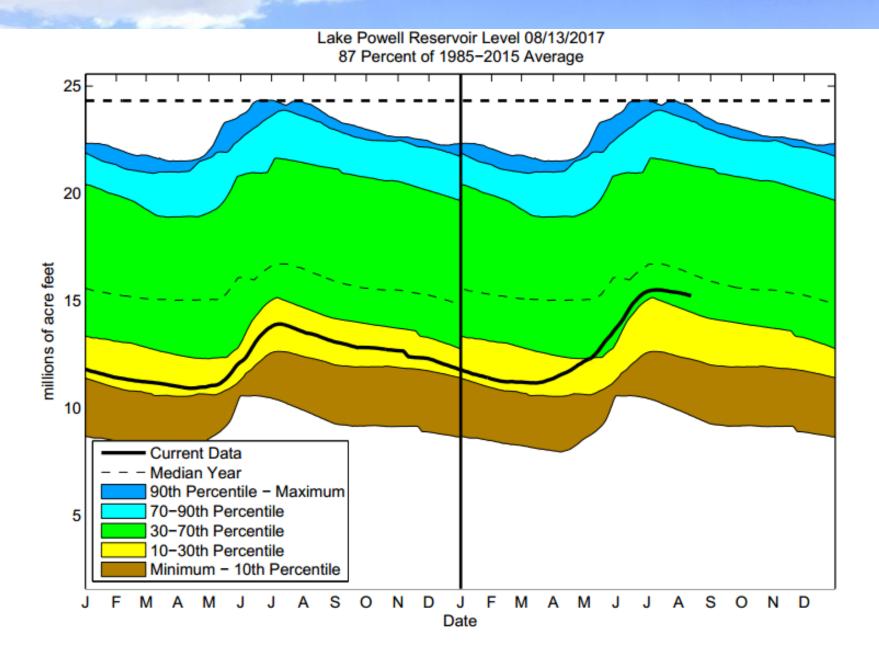


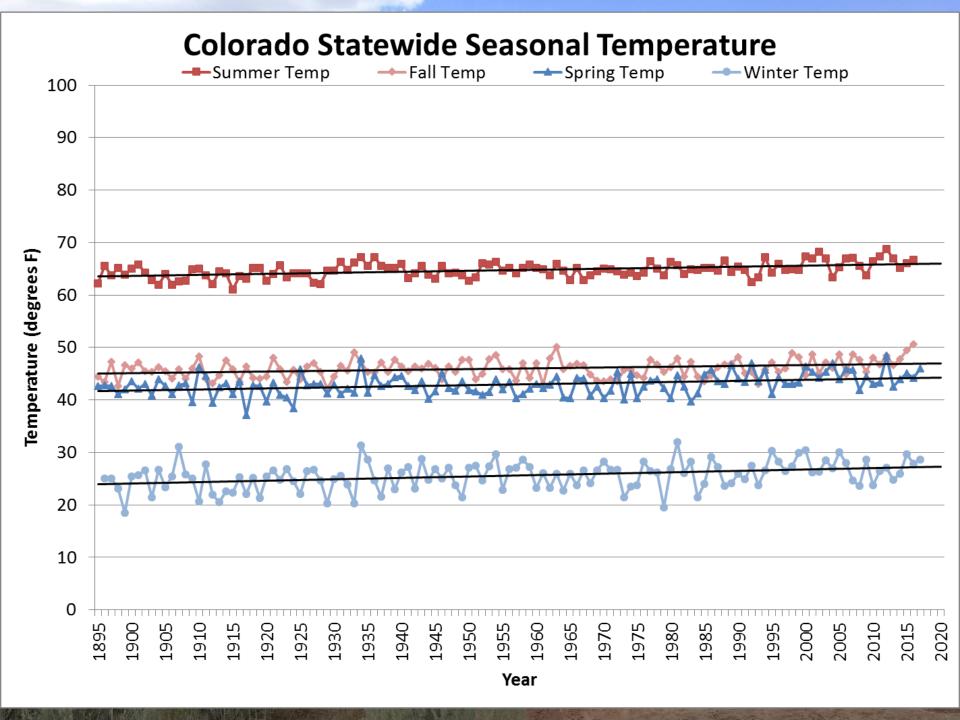




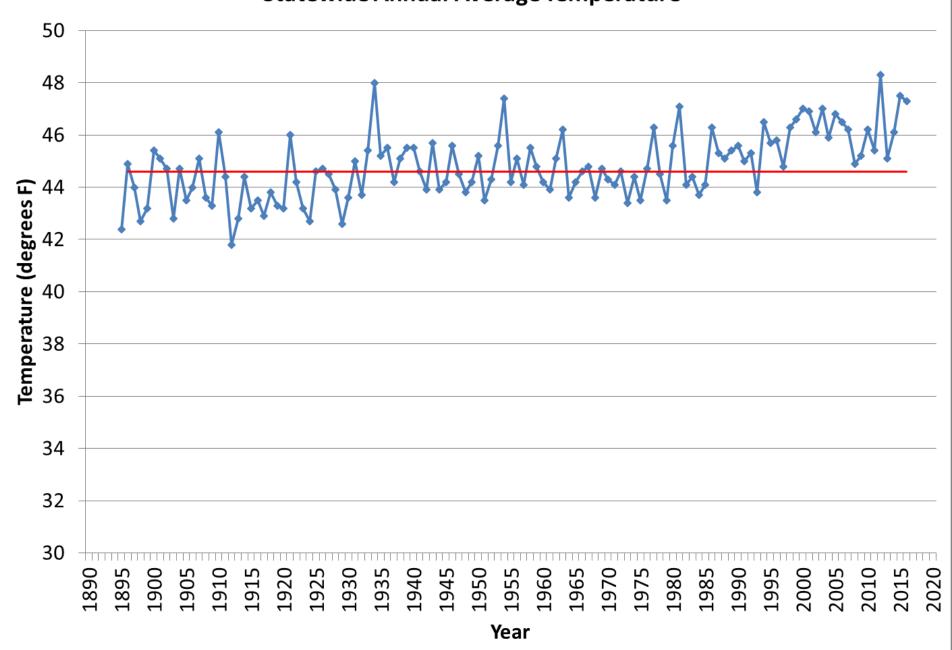




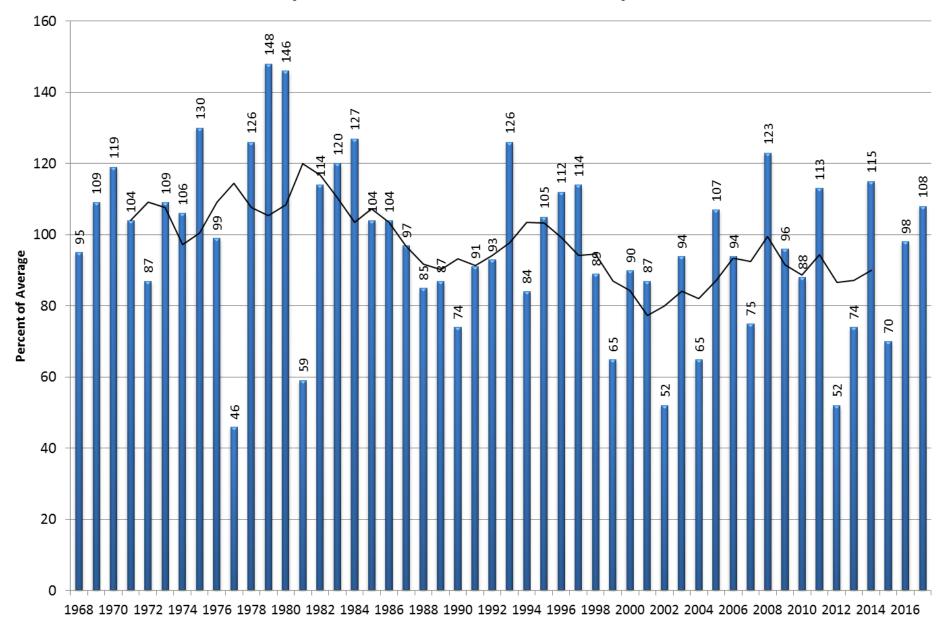




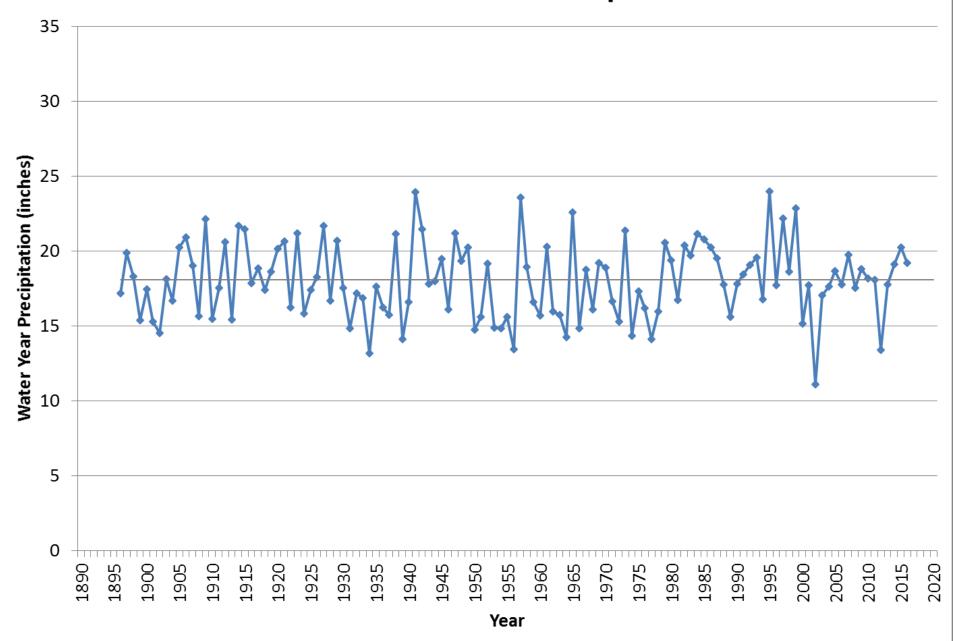




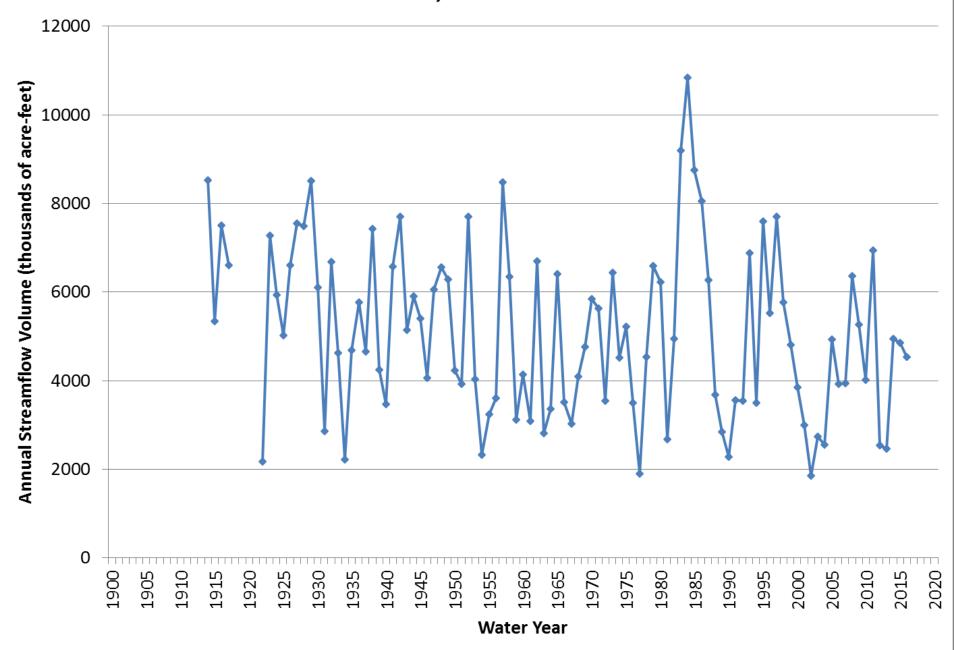
### **April 1 Colorado Statewide Snowpack**



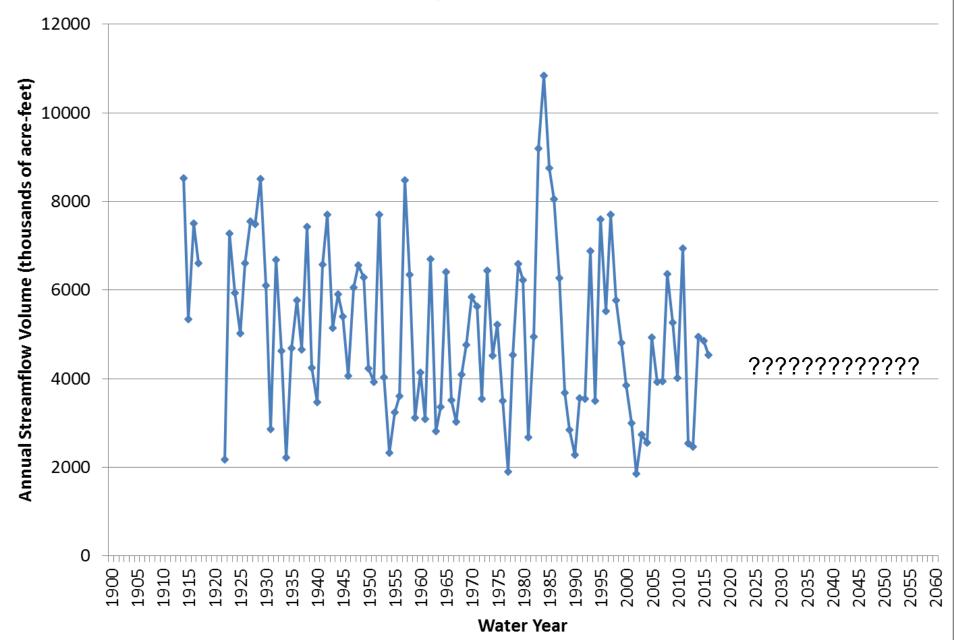
### **Statewide Water Year Precipitation**



### Colorado River near Cisco, UT Annual Streamflow Volume







## Colorado Climate Center

Data and Power Point Presentations available for downloading

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



Thanks Nolan, we will miss your leadership and knowledge, even though you will still be with the Climate Center! ©

