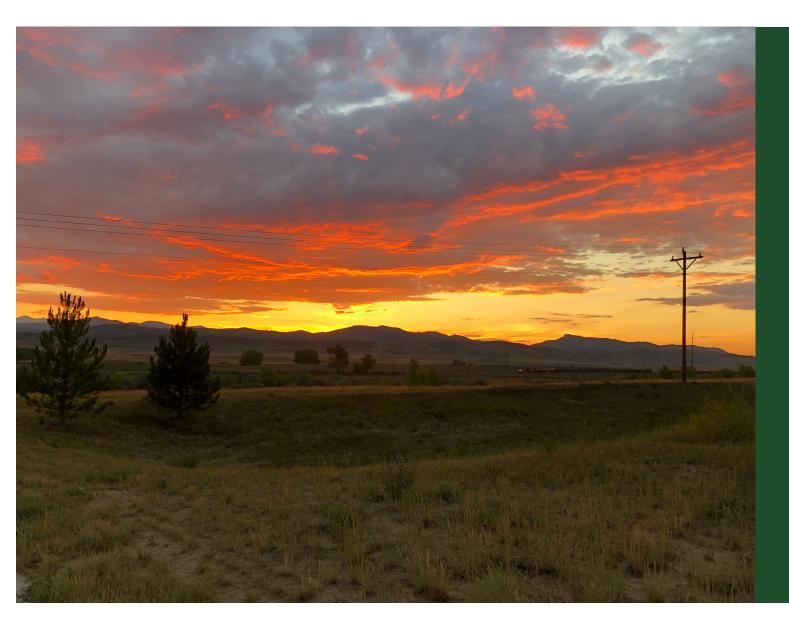
# Colorado Climate Center – WATF Climate Update

**Becky Bolinger** 

Water Availability Task Force July 24, 2018 – Durango, CO



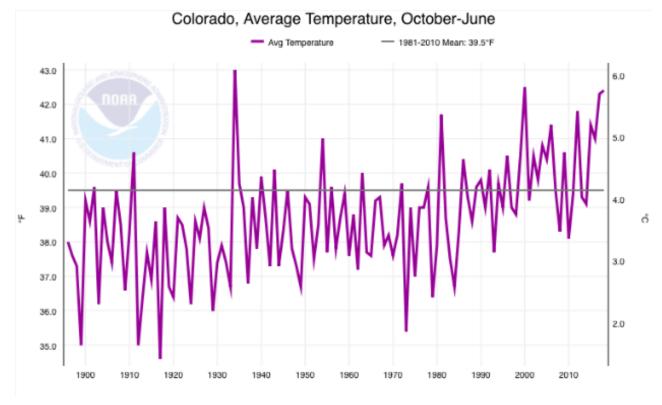


COLORADO CLIMATE CENTER

Water Year 2018 – Temperature



# 3<sup>rd</sup> Warmest in 123-year record +2.9°F above 39.5°F average

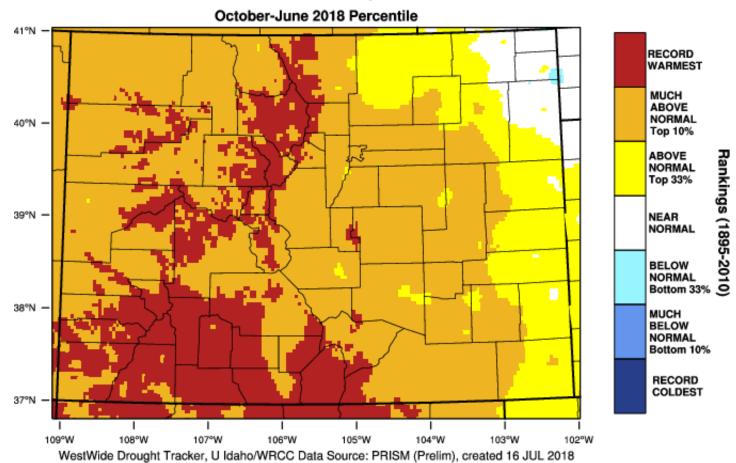


MONTH	RANK
Oct 2017	near average
Nov 2017	1st warmest
Dec 2017	8 <sup>th</sup> warmest
Jan 2018	8 <sup>th</sup> warmest
Feb 2018	near average
Mar 2018	25 <sup>th</sup> warmest
Apr 2018	near average
May 2018	2 <sup>nd</sup> warmest
Jun 2018	3 <sup>rd</sup> warmest





# Colorado - Mean Temperature

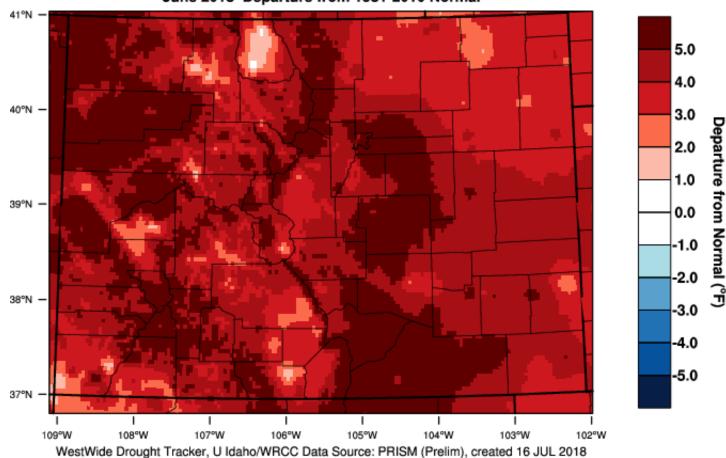






Colorado - Mean Temperature

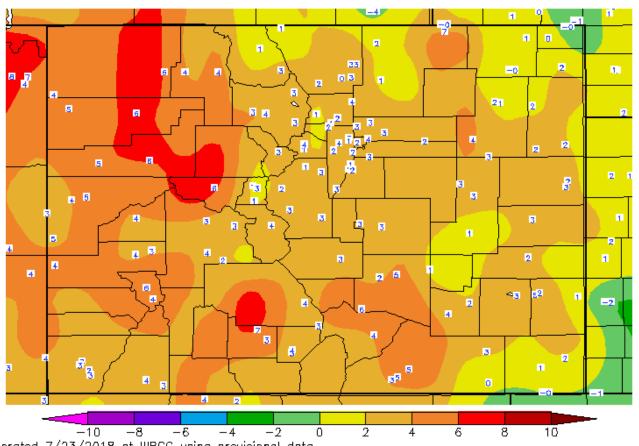








Ave. Temperature dep from Ave (deg F) 7/1/2018 - 7/22/2018



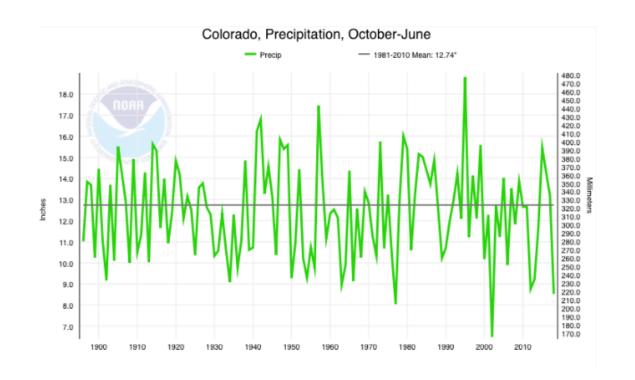
Generated 7/23/2018 at WRCC using provisional data.

NOAA Regional Climate Centers





# 3<sup>rd</sup> driest in 123-year record -4.21" below 12.74" average

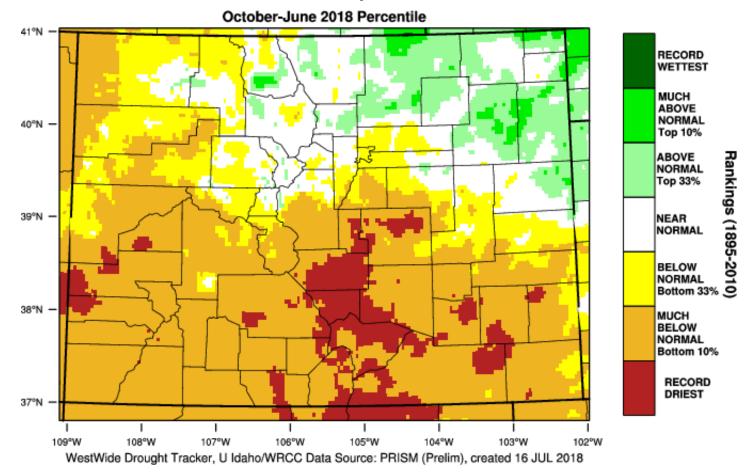


MONTH	RANK
Oct 2017	37 <sup>th</sup> driest
Nov 2017	18 <sup>th</sup> driest
Dec 2017	7 <sup>th</sup> driest
Jan 2018	37 <sup>th</sup> driest
Feb 2018	near average
Mar 2018	26 <sup>th</sup> driest
Apr 2018	34 <sup>th</sup> driest
May 2018	38 <sup>th</sup> driest
Jun 2018	26 <sup>th</sup> driest





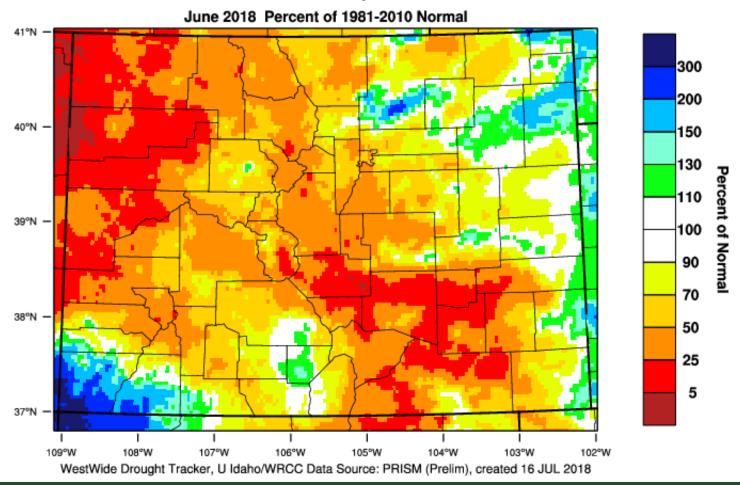
# Colorado - Precipitation



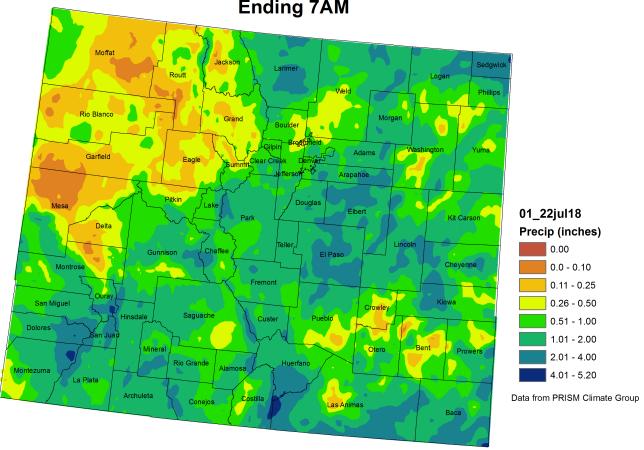




# Colorado - Precipitation

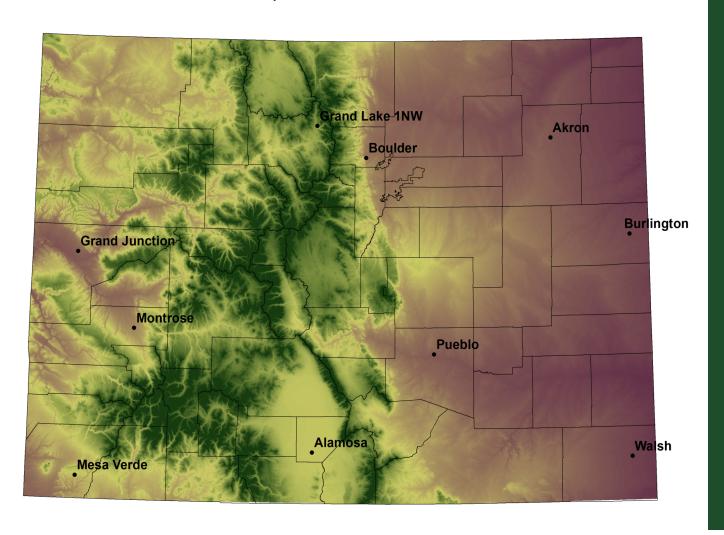


# Colorado Month to Date Precipitation 1 - 22 July 2018 Ending 7AM





# NWS Cooperative Stations for WATF



COLORADO CLIMATE CENTER

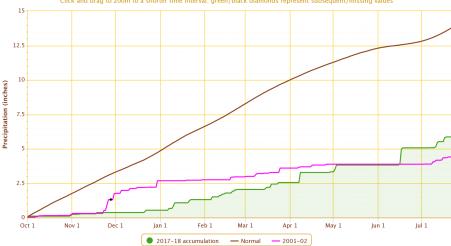
Water Year 2018 – Station Updates

SPECIAL EDITION: SOUTHWEST CO

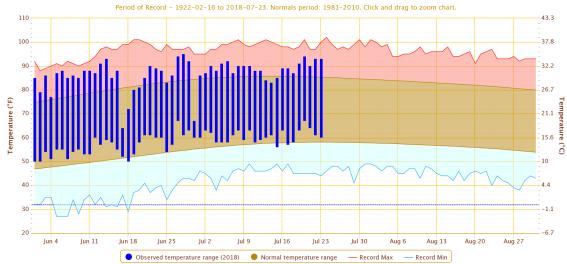


#### Accumulated Precipitation - MESA VERDE NP, CO

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



#### Daily Temperature Data - MESA VERDE NP, CO



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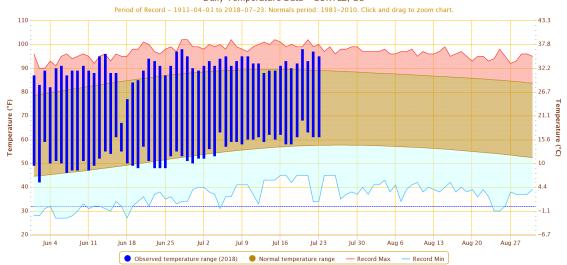
#### Accumulated Precipitation - CORTEZ, CO

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values

- Normal

2017-18 accumulation

#### Daily Temperature Data - CORTEZ, CO

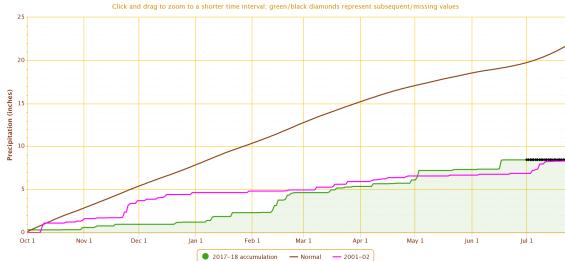


Powered by ACIS



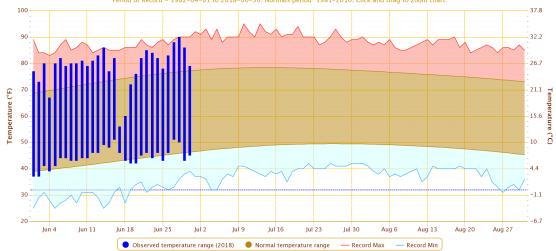
Powered by ACIS

#### Accumulated Precipitation - LEMON DAM, CO



#### Daily Temperature Data - LEMON DAM, CO

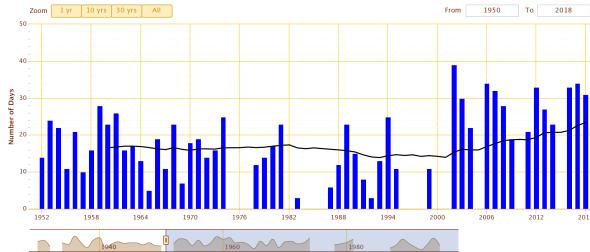
Period of Record – 1982–04–01 to 2018–06–30. Normals period: 1981–2010. Click and drag to zoom chart.



Powered by ACIS

#### Number of Days Max Temperature >= 90 Jan 1 to Jul 22 - CORTEZ, CO

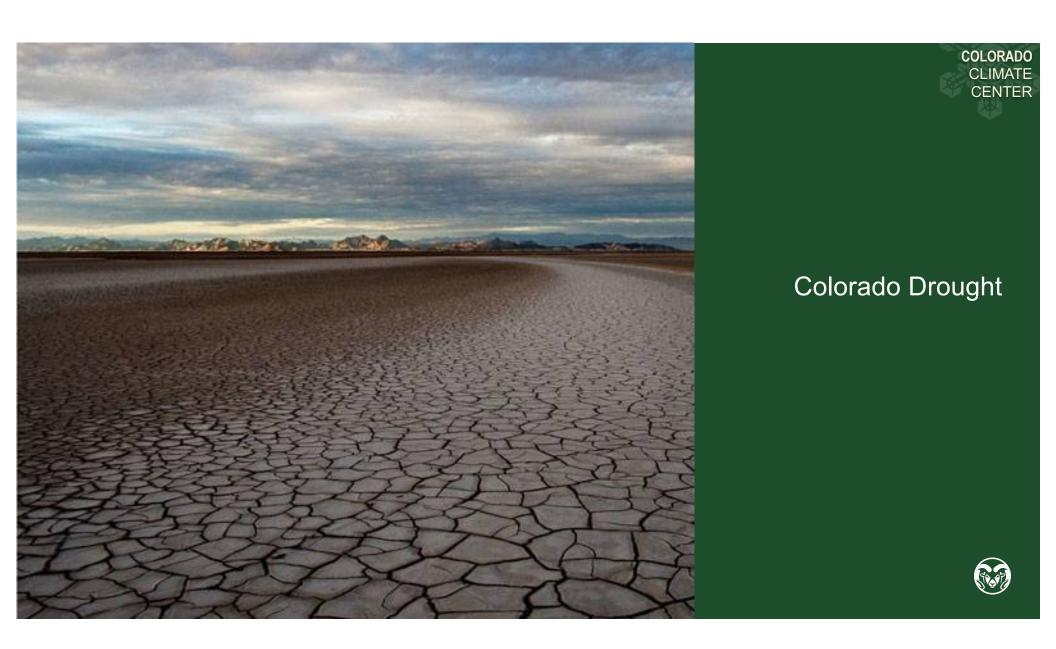
Use navigation tools above and below chart to change displayed range



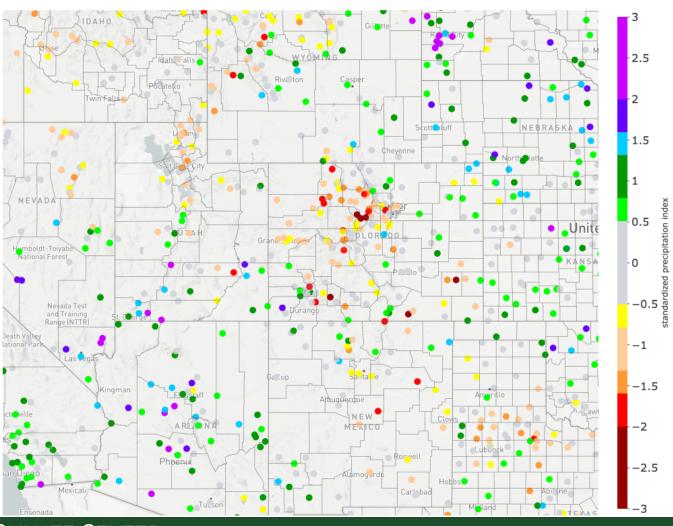
#### Number of Days Min Temperature >= 60 Jan 1 to Jul 22 - CORTEZ, CO

Use navigation tools above and below chart to change displayed range



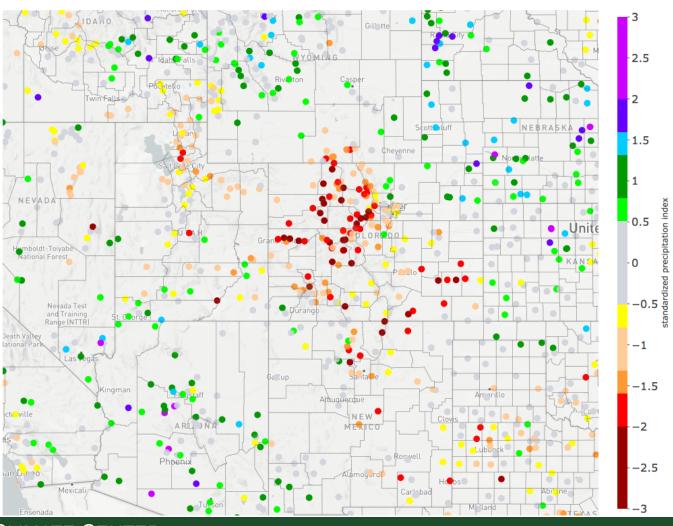


# 30-day Standardized Precipitation Index



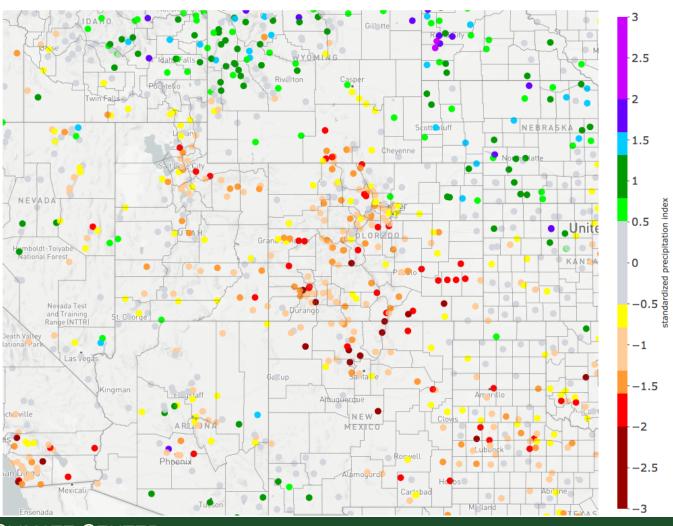


# 90-day Standardized Precipitation Index



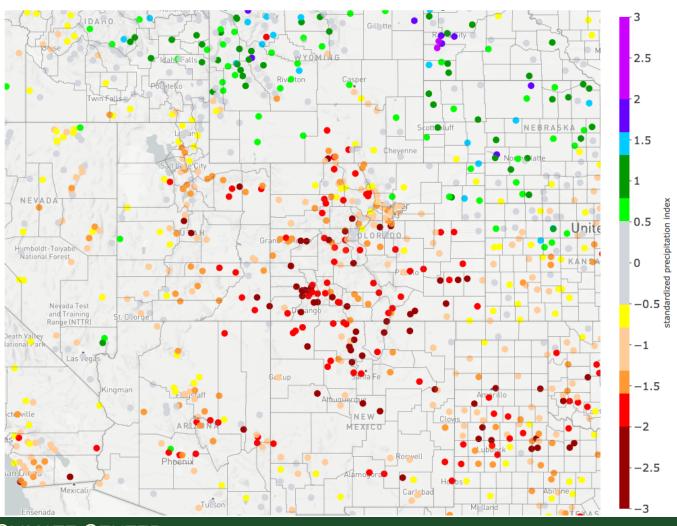


# 6-month Standardized Precipitation Index



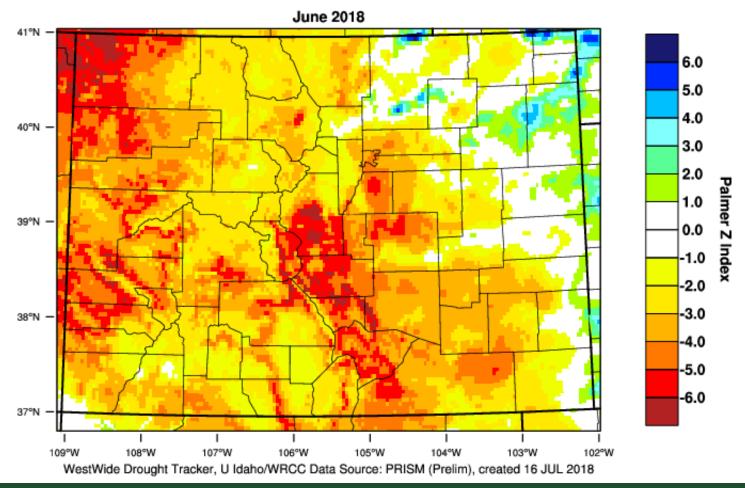


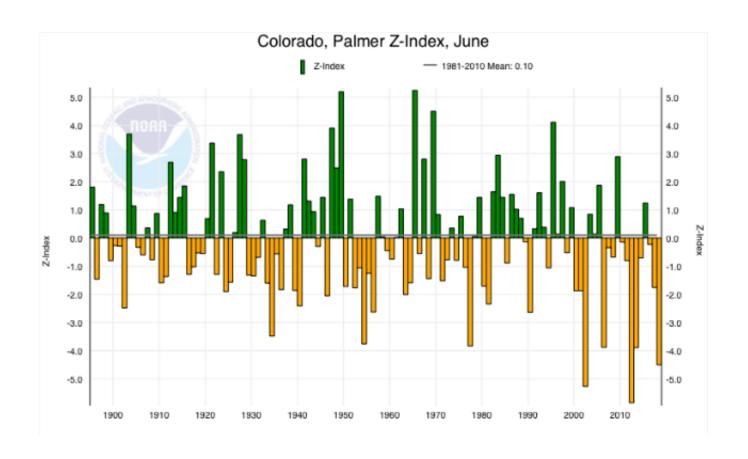
# 9-month Standardized Precipitation Index





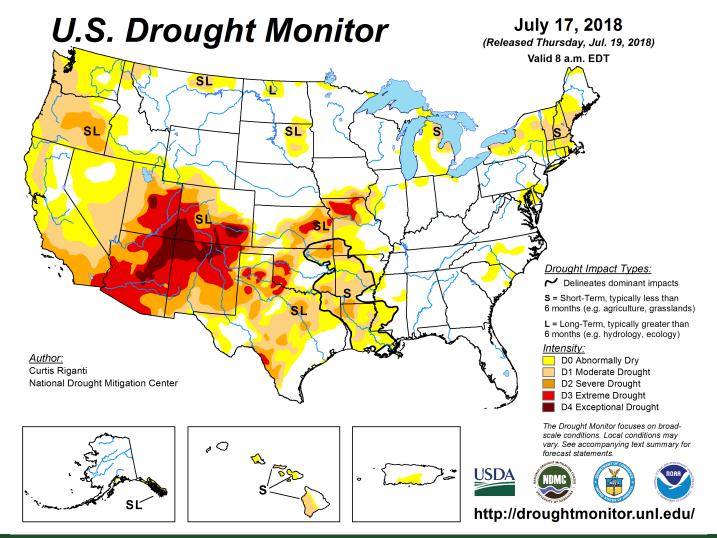
# Colorado - Palmer Z-Index



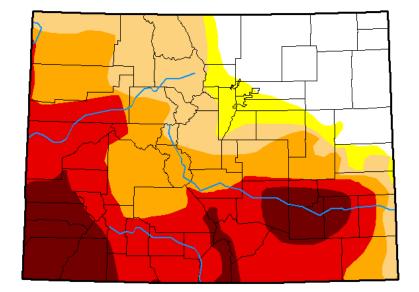








# U.S. Drought Monitor Colorado



# July 17, 2018

(Released Thursday, Jul. 19, 2018)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	17.50	82.50	76.96	60.62	40.08	13.32
Last Week 07-10-2018	17.50	82.50	77.11	60.62	40.08	13.32
3 Month's Ago 04-17-2018	15.74	84.26	69.17	53.65	24.42	3.87
Start of Calendar Year 01-02-2018	6.57	93.43	33.53	7.27	0.00	0.00
Start of Water Year 09-26-2017	67.63	32.37	3.72	0.00	0.00	0.00
One Year Ago 07-18-2017	64.47	35.53	0.00	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.

#### <u>Author:</u>

Curtis Riganti National Drought Mitigation Center



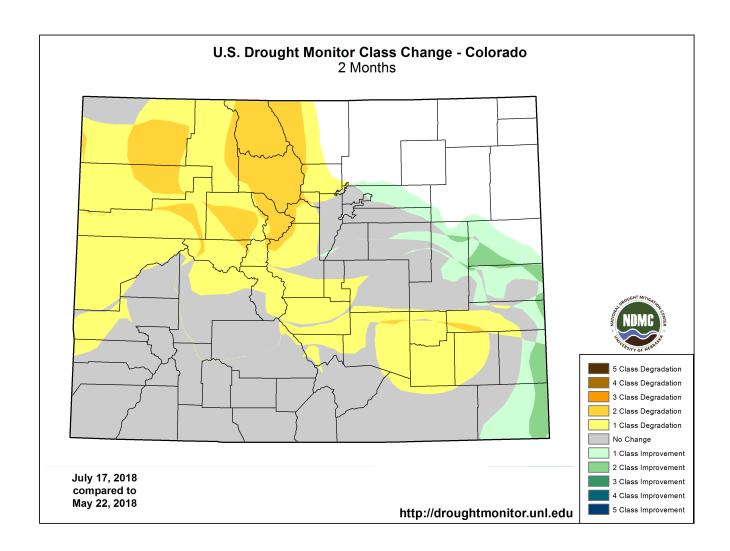




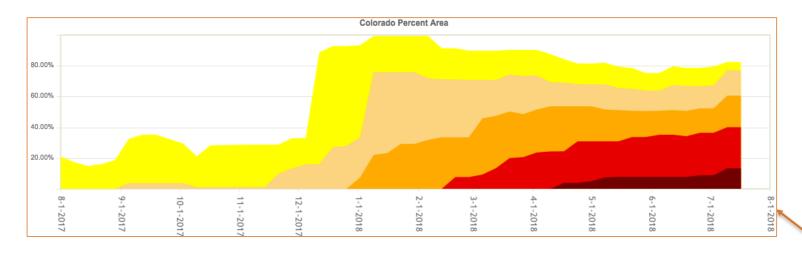


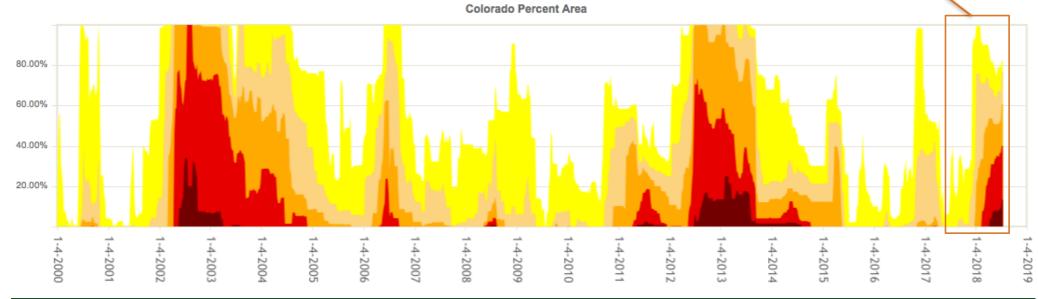
http://droughtmonitor.unl.edu/







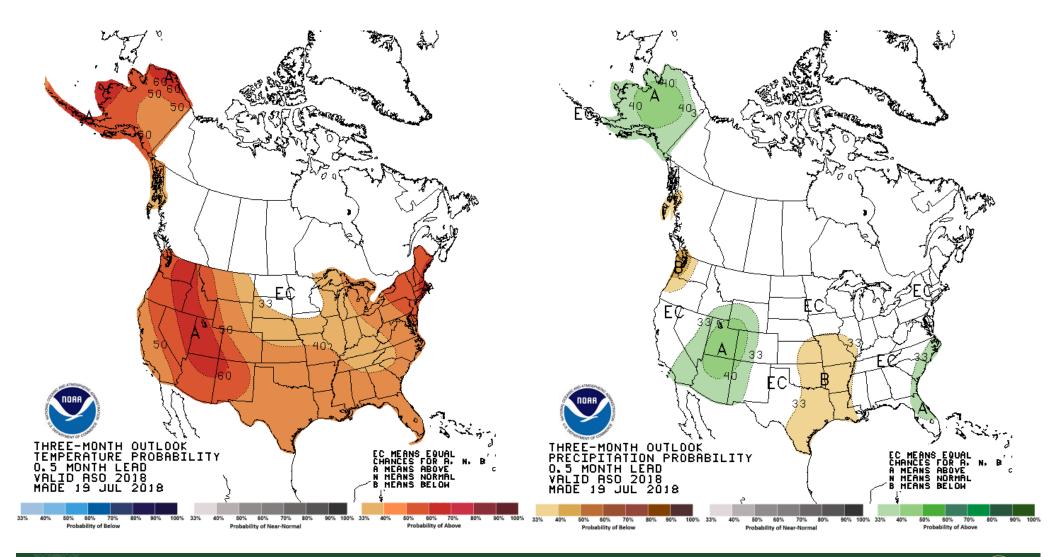








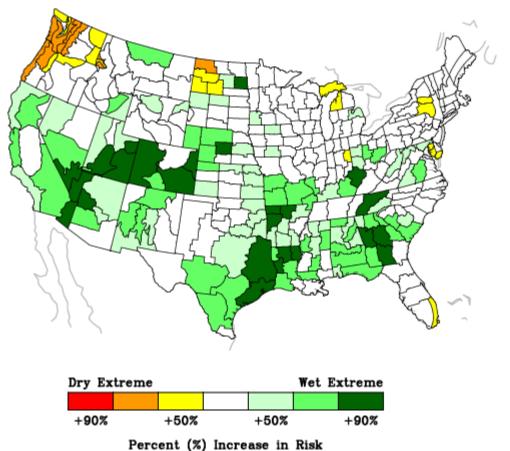








# SON Precipitation During El Nino Increased Risk of Wet or Dry Extremes



# El Niño Watch Issued

What can El Niño mean for Colorado?

Percent (%) Increase in Risk



# Becky.Bolinger@colostate.edu

To view this and other presentations: http://climate.colostate.edu/ccc\_archive.html

# Thank you

