# Colorado Climate Center – WATF Climate Update

**Becky Bolinger** 

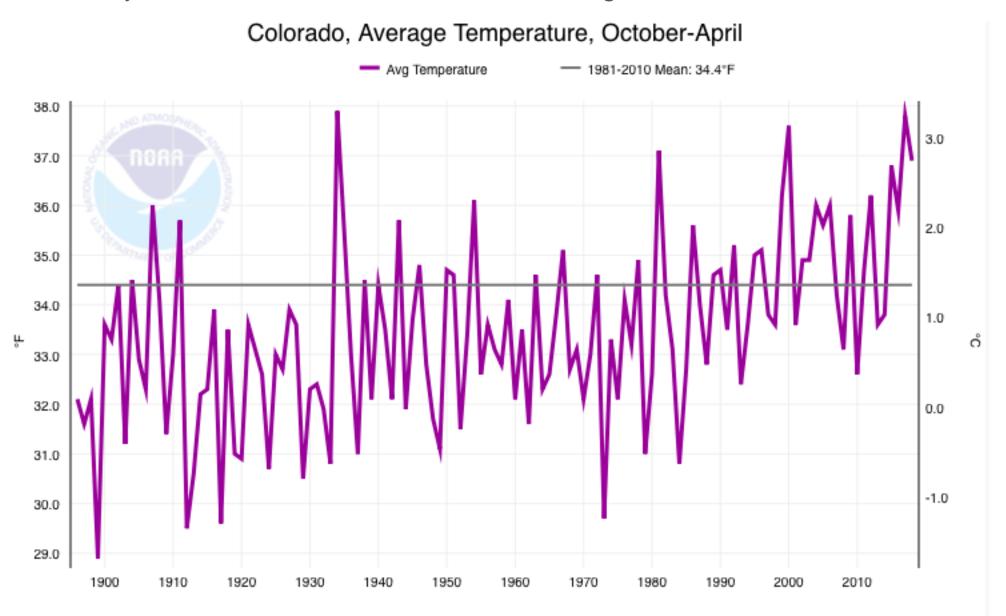
Water Availability Task Force May 17, 2018





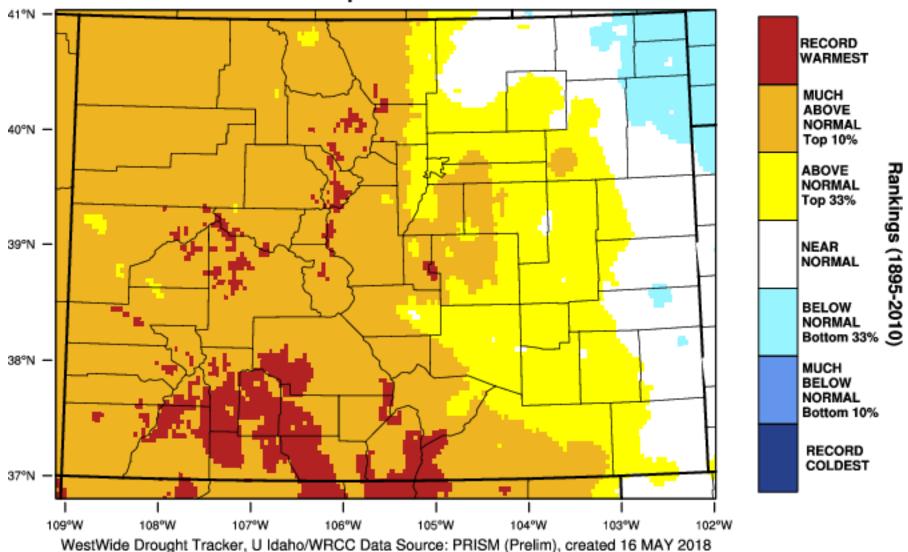






# Colorado - Mean Temperature

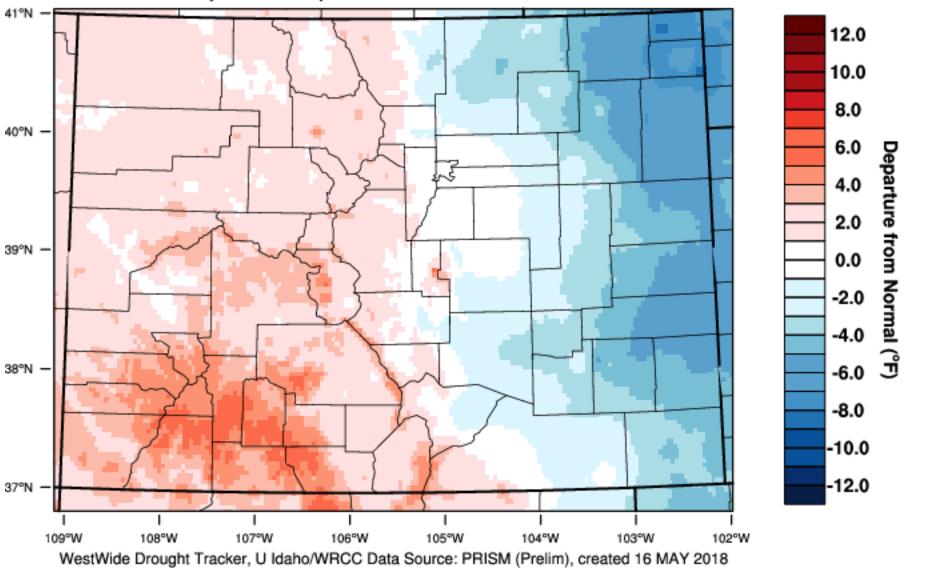
### October-April 2018 Percentile





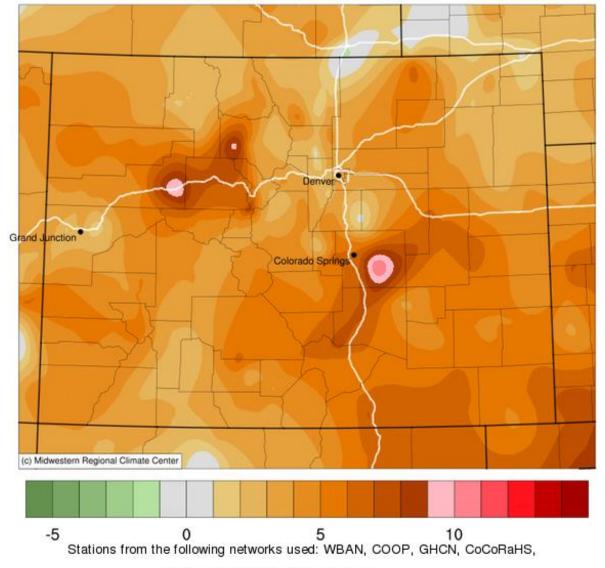
# Colorado - Mean Temperature

### April 2018 Departure from 1981-2010 Normal



# Average Temperature (°F): Departure from 1981-2010 Normals

May 01, 2018 to May 16, 2018



Midwestern Regional Climate Center cli-MATE: MRCC Application Tools Environment Generated at: 5/16/2018 5:41:46 PM CDT



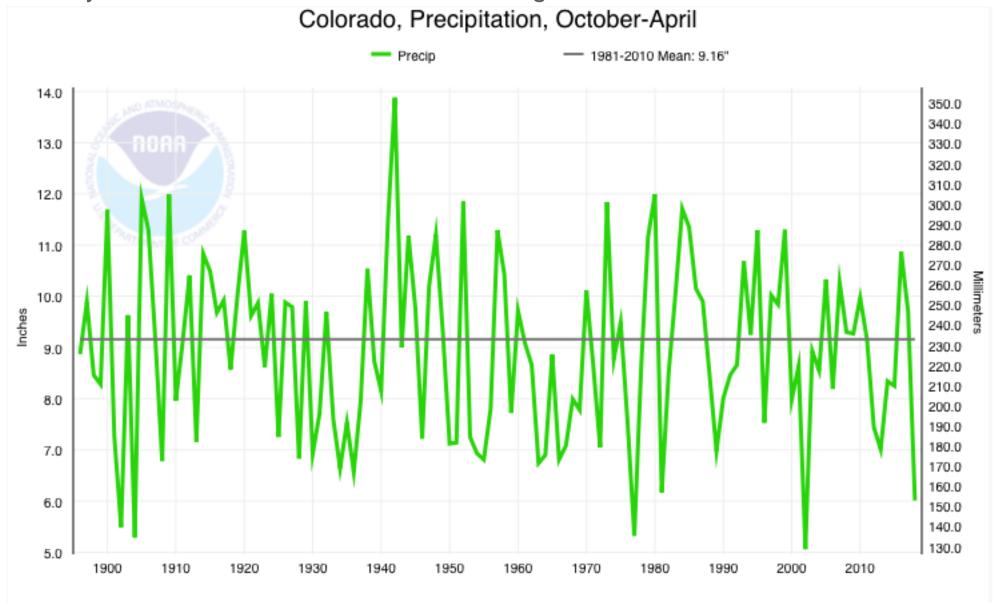






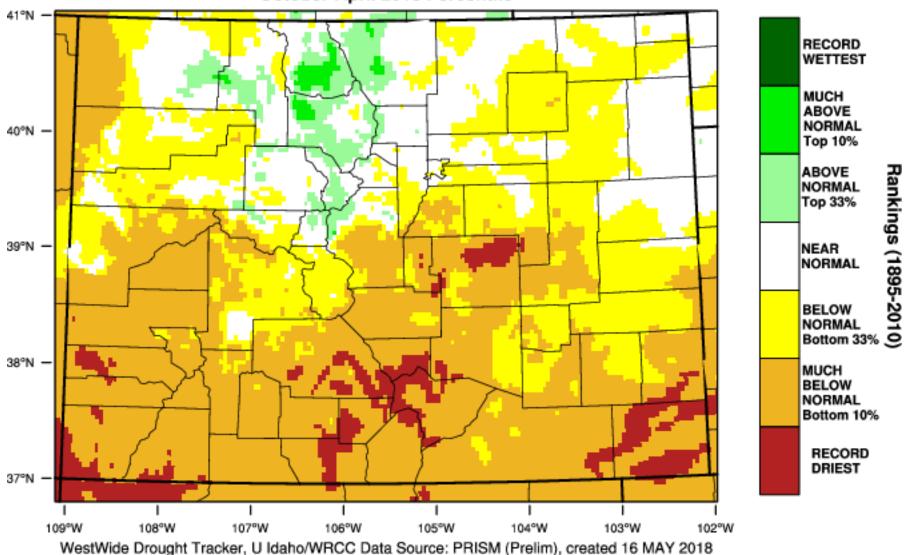


5<sup>th</sup> driest in 123-year record - -3.15" below 9.16" average



# Colorado - Precipitation

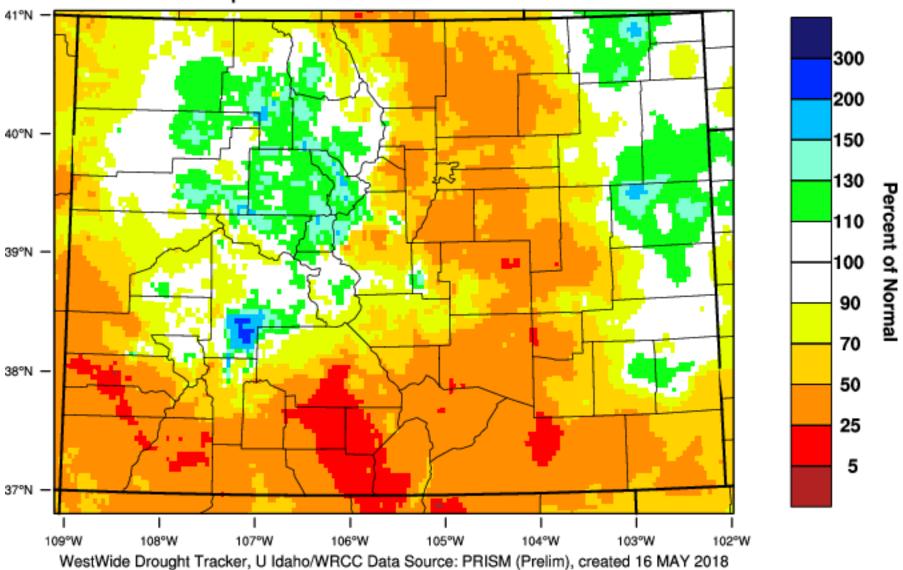
# October-April 2018 Percentile



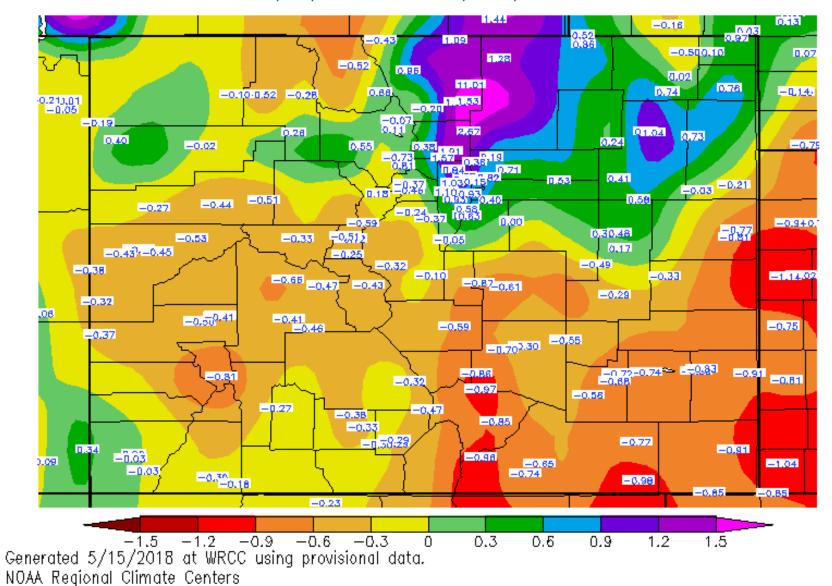


# Colorado - Precipitation

# April 2018 Percent of 1981-2010 Normal



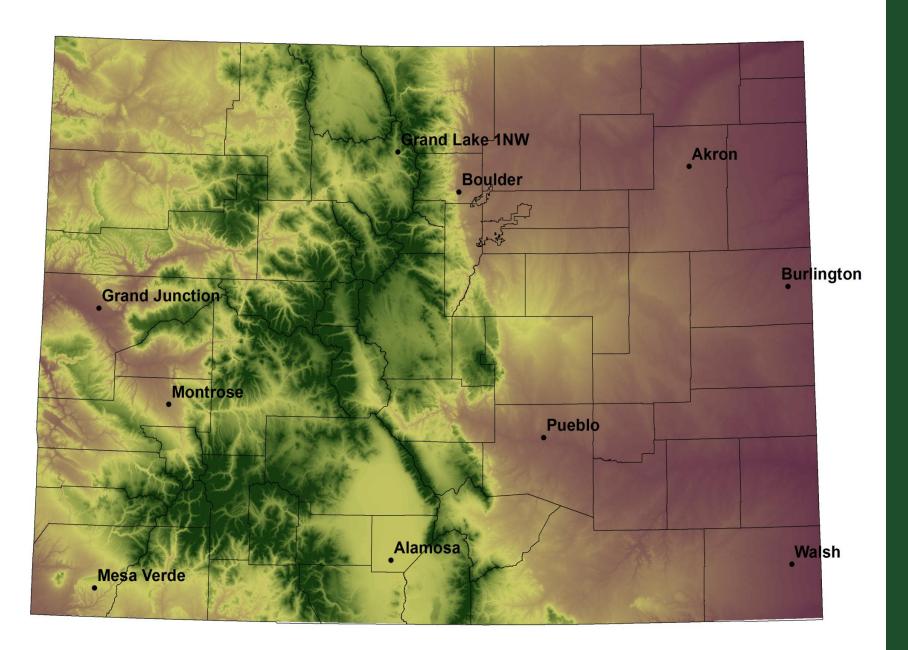
# Precipitation Departure from Average (in.) 5/1/2018 - 5/14/2018





# NWS Cooperative Stations for WATF

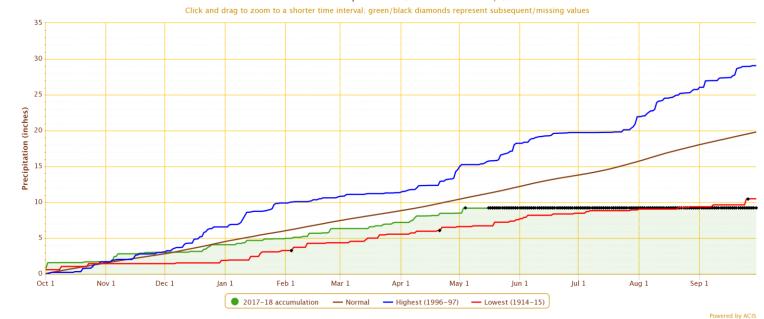




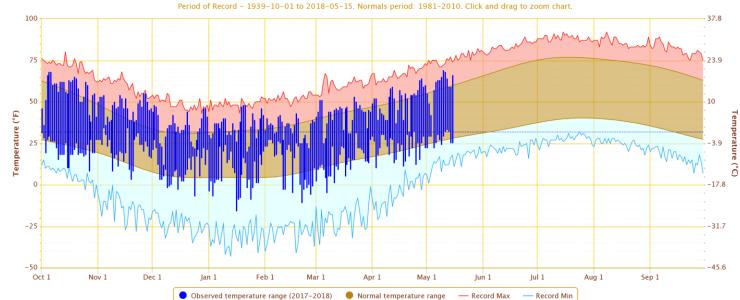
Water Year 2018 – Station Updates



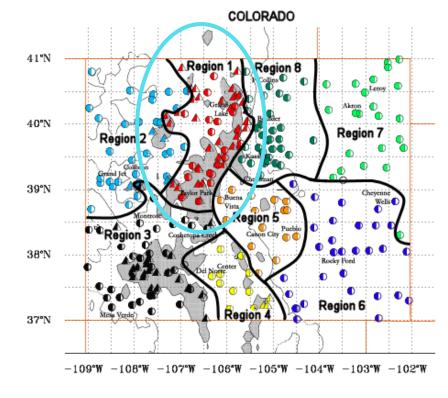
#### Accumulated Precipitation - GRAND LAKE 1 NW, CO



#### Daily Temperature Data - GRAND LAKE 1 NW, CO



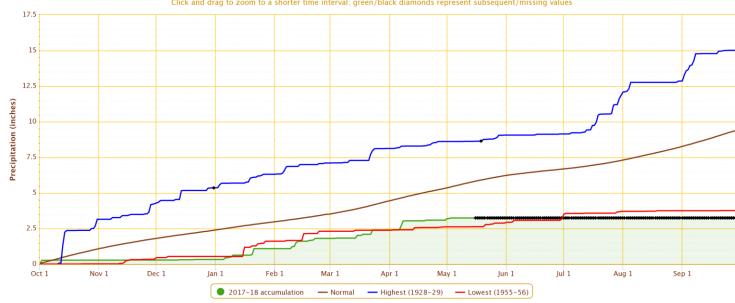






#### Accumulated Precipitation - GRAND JUNCTION WALKER FIELD, CO



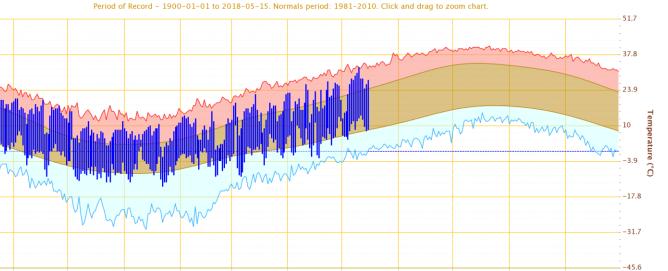


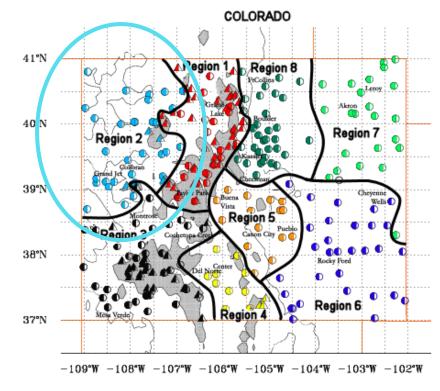
Powered by ACIS

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Aug 1

#### Daily Temperature Data - GRAND JUNCTION WALKER FIELD, CO





Observed temperature range (2017–2018) Normal temperature range

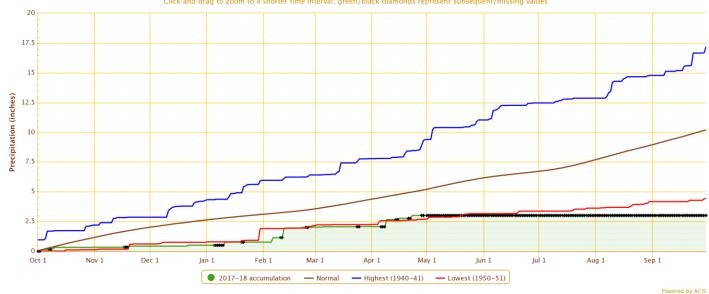
100

Oct 1

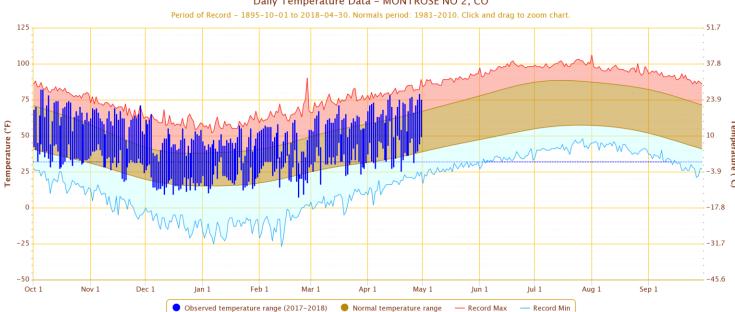
Dec 1

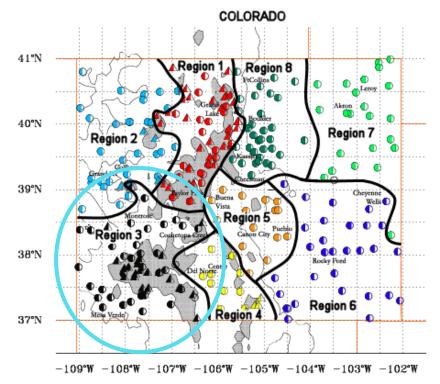
#### Accumulated Precipitation - MONTROSE NO 2, CO





#### Daily Temperature Data - MONTROSE NO 2, CO

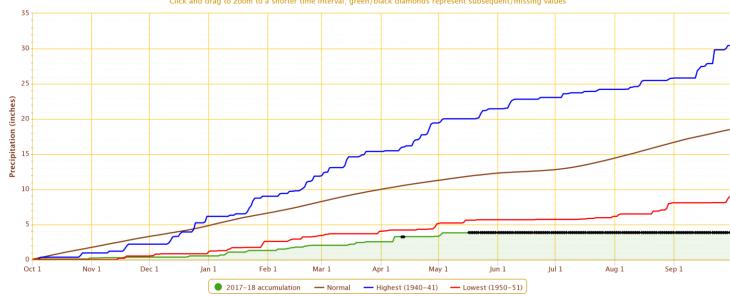






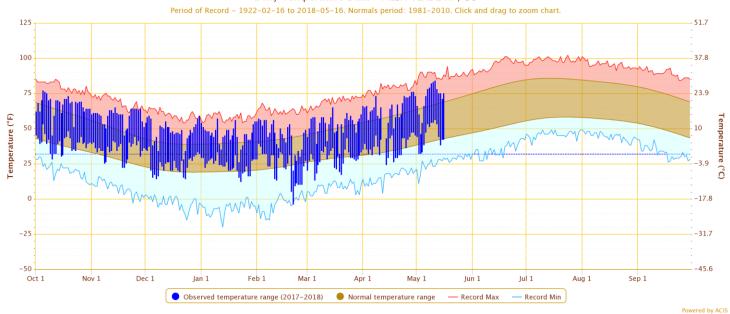
#### Accumulated Precipitation - MESA VERDE NP, CO

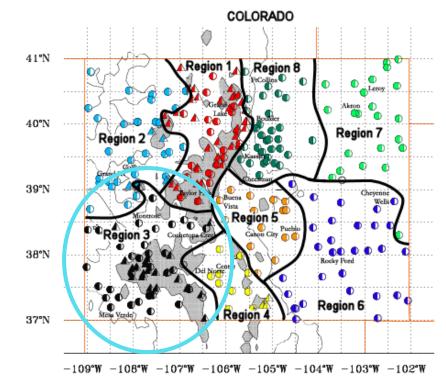




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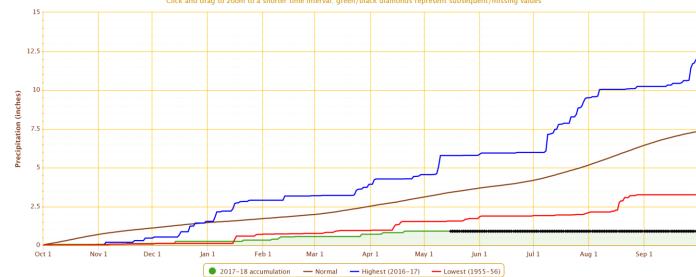
#### Daily Temperature Data - MESA VERDE NP, CO





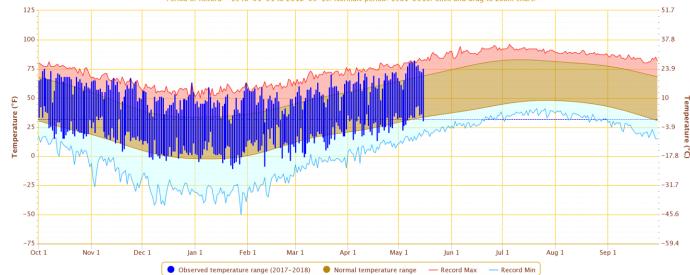
#### Accumulated Precipitation – ALAMOSA SAN LUIS VALLEY REGIONAL AP, CO

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

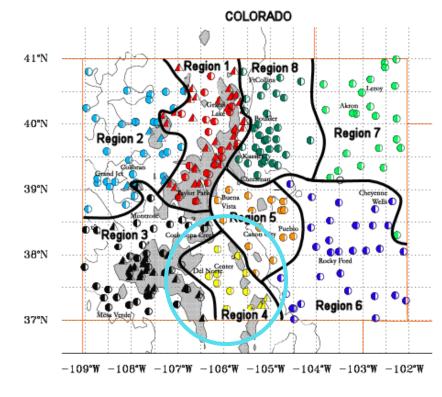


#### Daily Temperature Data - ALAMOSA SAN LUIS VALLEY REGIONAL AP, CO

Period of Record - 1948-01-01 to 2018-05-15. Normals period: 1981-2010. Click and drag to zoom chart.



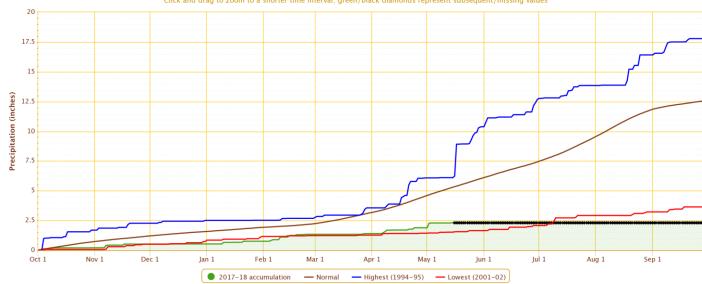
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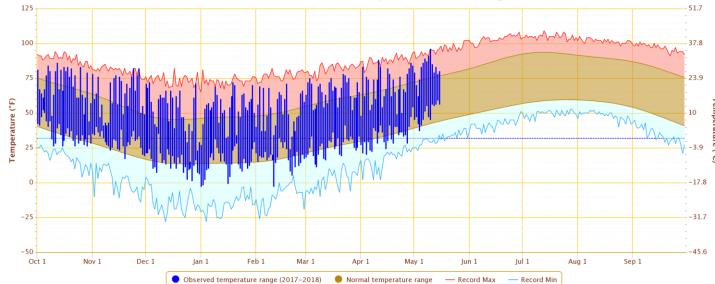
#### Accumulated Precipitation - PUEBLO MEMORIAL AP, CO

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

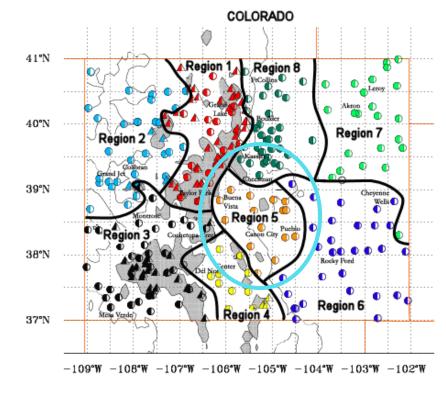


#### Daily Temperature Data - PUEBLO MEMORIAL AP, CO

Period of Record - 1954-06-16 to 2018-05-15. Normals period: 1981-2010. Click and drag to zoom chart.

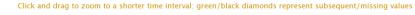


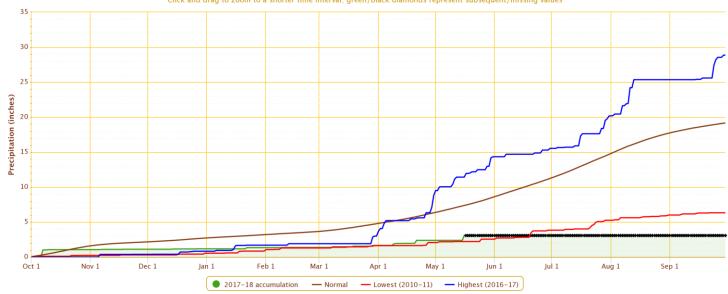
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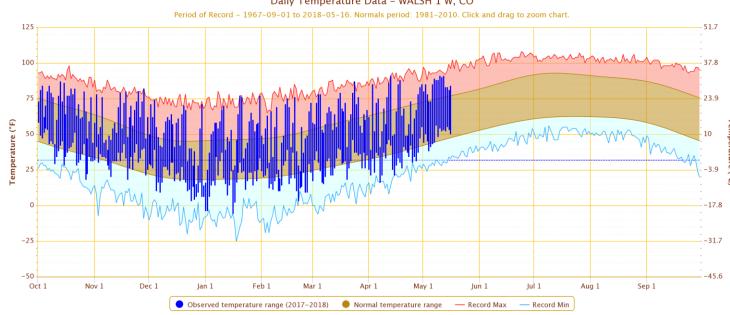
#### Accumulated Precipitation - WALSH 1 W, CO

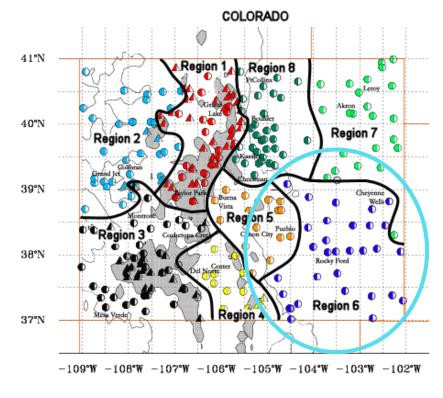




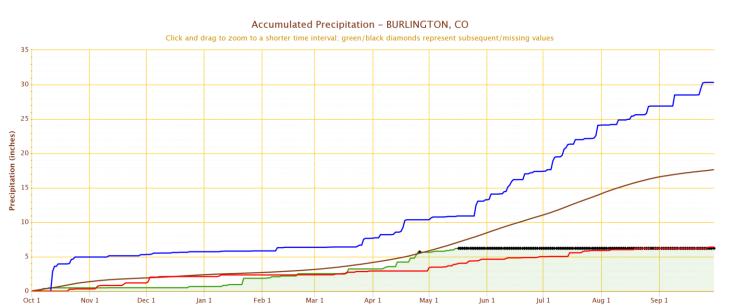


#### Powered by ACIS









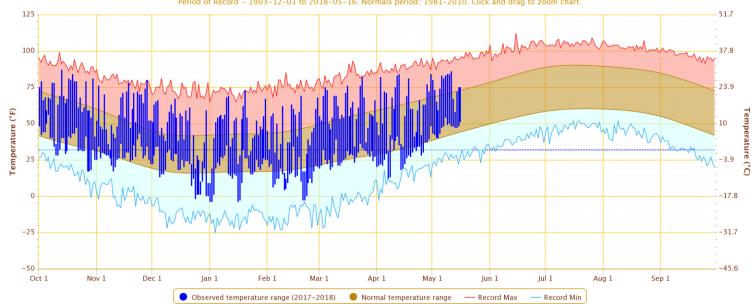
#### Daily Temperature Data - BURLINGTON, CO

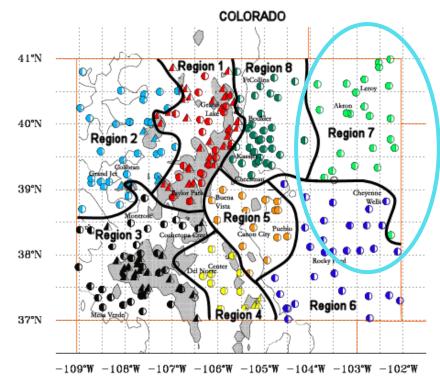
— Highest (2008–09) — Lowest (1953–54)

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Period of Record - 1903-12-01 to 2018-05-16. Normals period: 1981-2010. Click and drag to zoom chart.



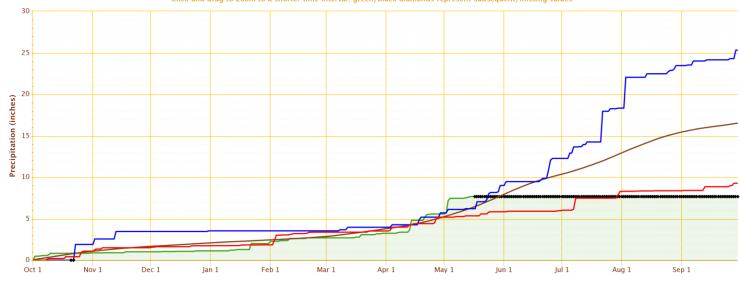




2017-18 accumulation

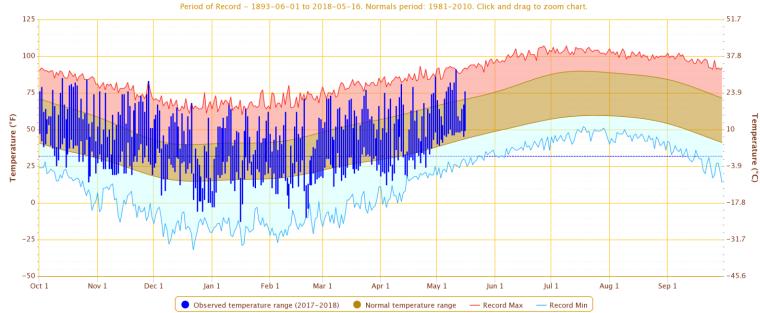
#### Accumulated Precipitation - AKRON 4 E, CO



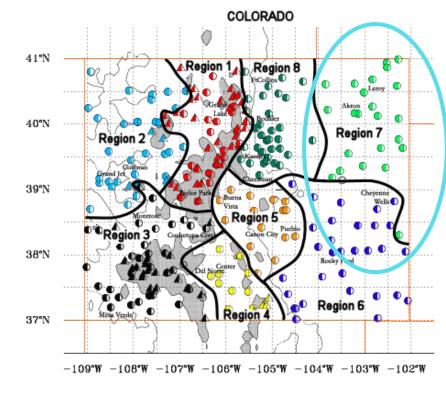


#### Daily Temperature Data - AKRON 4 E, CO





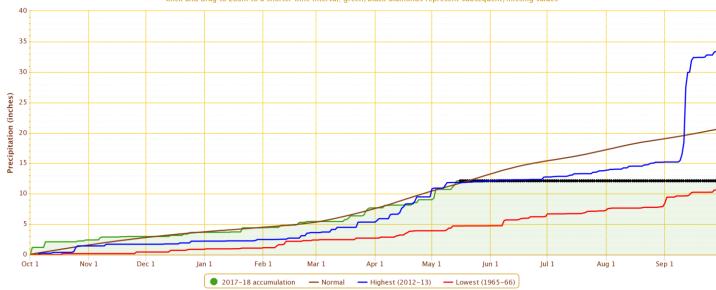






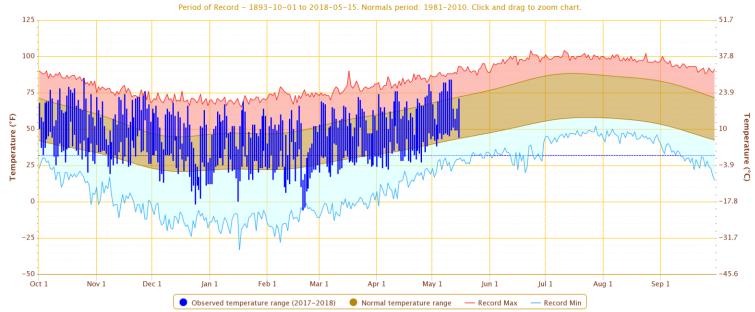
#### Accumulated Precipitation - BOULDER, CO



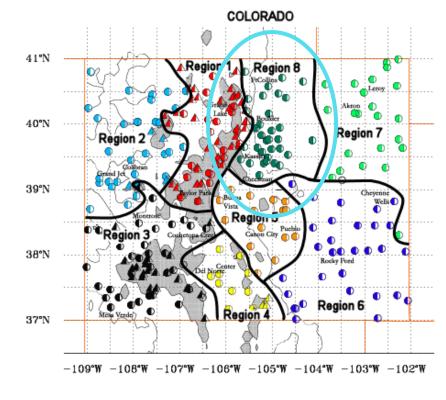


#### Daily Temperature Data - BOULDER, CO

#### emperature Data - BOULDER, CO



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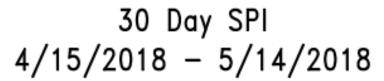


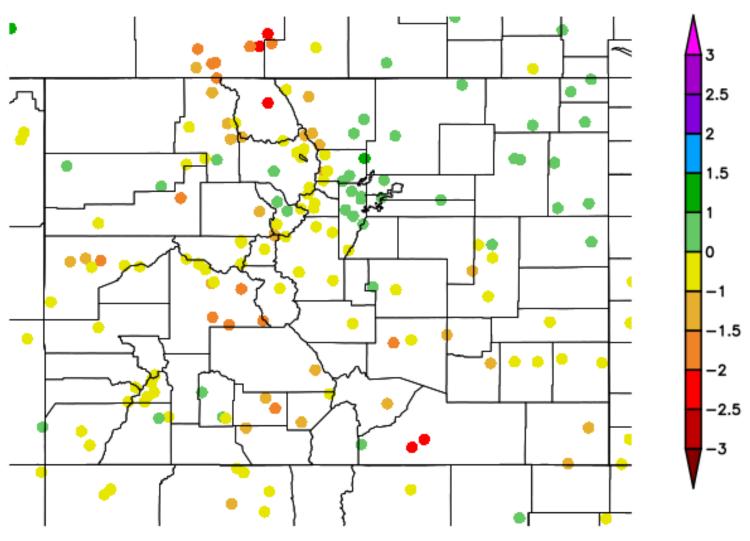


# Colorado Drought

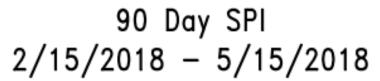


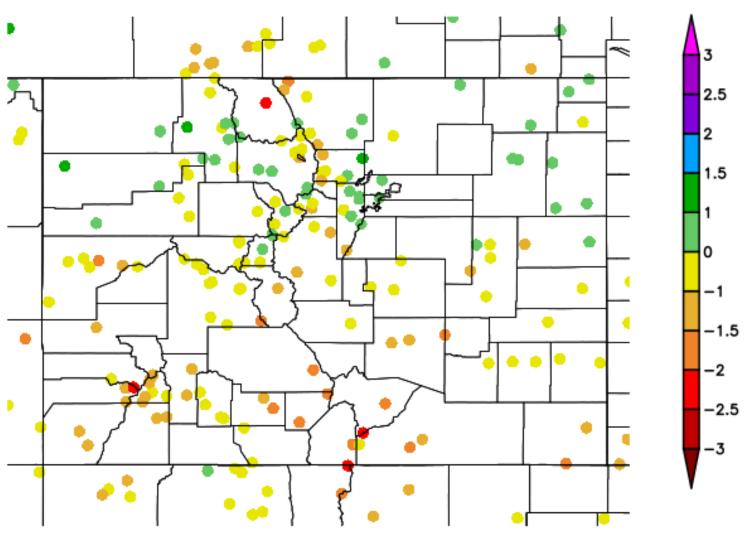






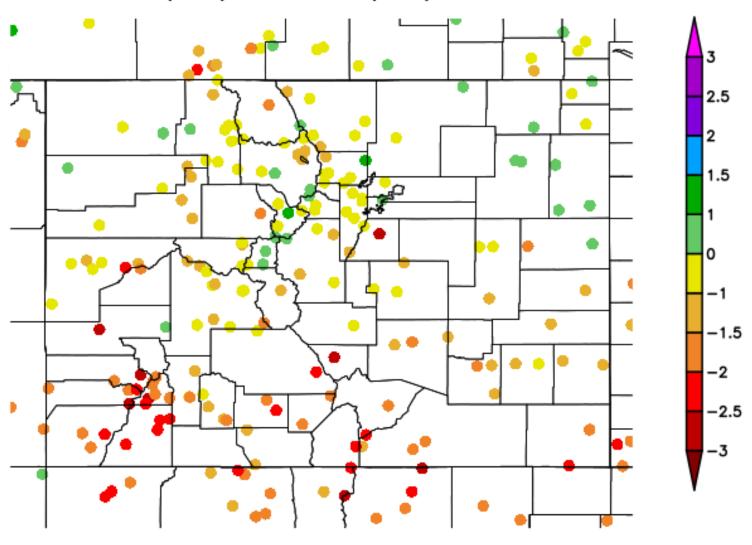
Generated 5/15/2018 at HPRCC using provisional data.





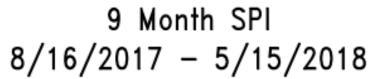
Generated 5/16/2018 at HPRCC using provisional data.

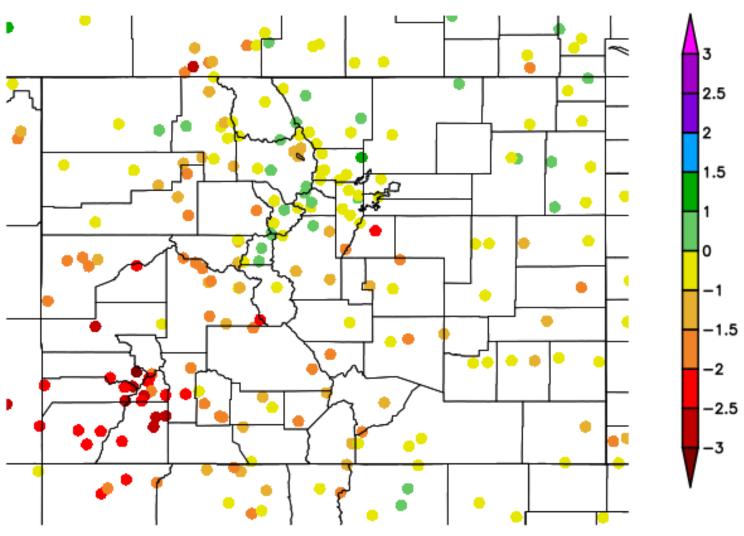
6 Month SPI 11/15/2017 - 5/14/2018



Generated 5/15/2018 at HPRCC using provisional data.



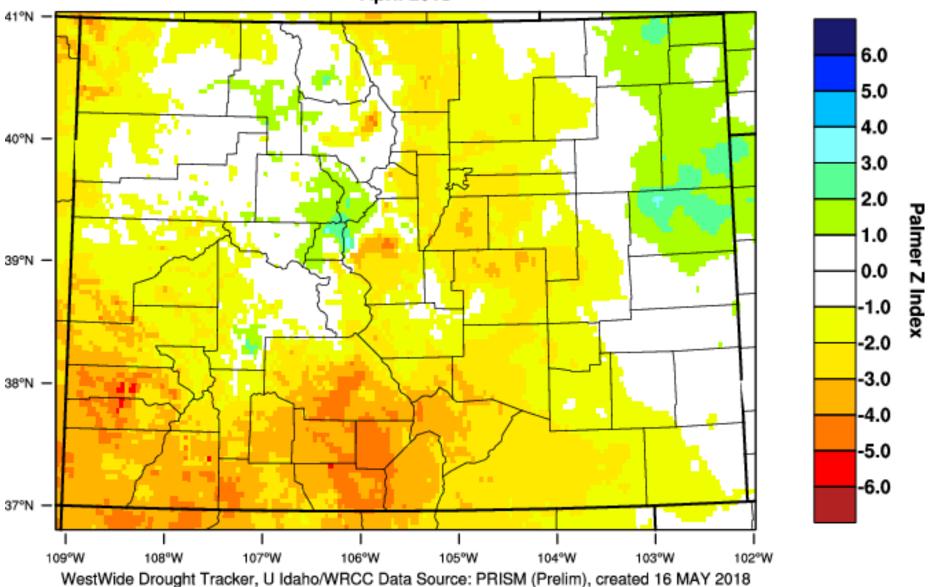




Generated 5/16/2018 at HPRCC using provisional data.

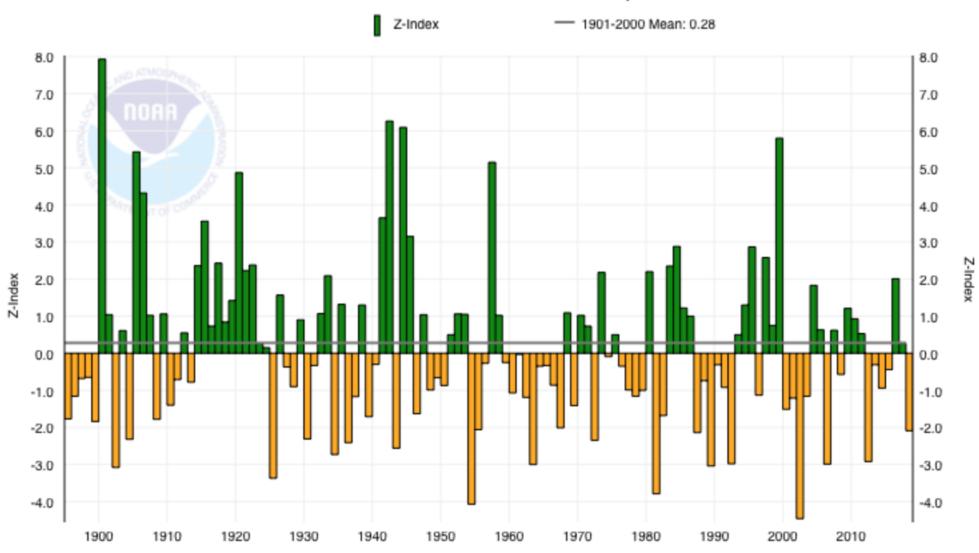
### Colorado - Palmer Z-Index







# Colorado, Palmer Z-Index, April



# U.S. Drought Monitor Continental U.S. (CONUS)

# **January 16, 2018**

(Released Thursday, Jan. 18, 2018)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	39.07	60.93	33.04	10.03	0.64	0.00
Last Week 01-09-2018	42.20	57.80	32.07	8.70	0.46	0.00
3 Month's Ago 10-17-2017	62.25	37.75	12.48	2.98	0.82	0.00
Start of Calendar Year 01-02-2018	44.46	55.54	27.70	7.46	0.83	0.00
Start of Water Year 09-26-2017	63.07	36.93	13.81	4.99	2.36	0.87
One Year Ago 01-17-2017	60.50	39.50	19.26	6.77	2.39	0.11

#### 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:

Brian Fuchs
National Drought Mitigation Center



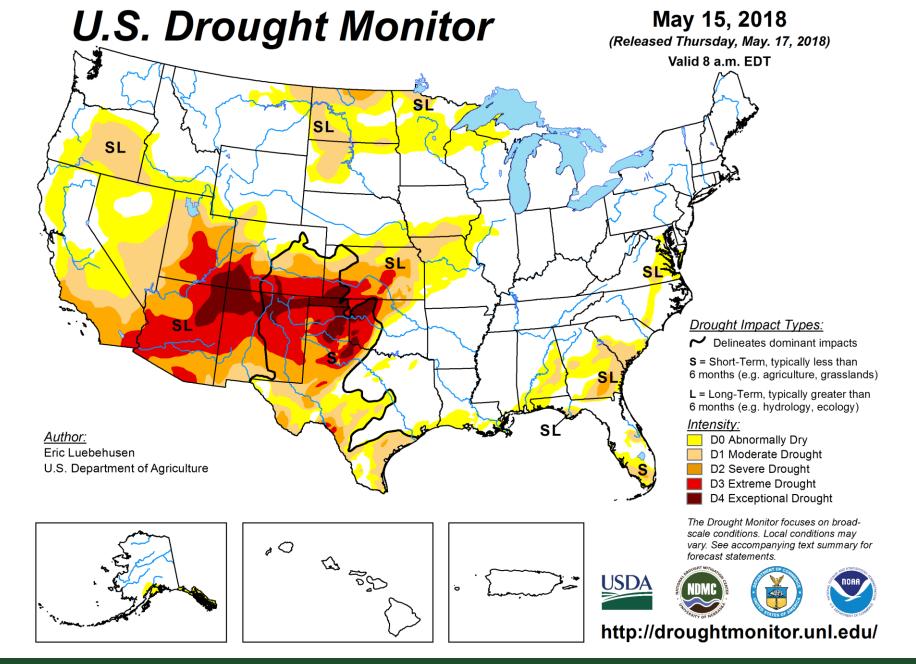






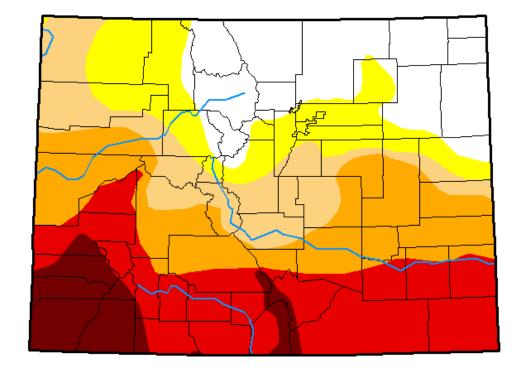
http://droughtmonitor.unl.edu/





# U.S. Drought Monitor

# Colorado



# May 15, 2018

(Released Thursday, May. 17, 2018)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	20.49	79.51	65.53	51.14	30.89	7.79
Last Week 05-08-2018	18.02	81.98	67.98	51.57	30.89	7.40
3 Month's Ago 02-13-2018	8.59	91.41	71.18	33.51	0.00	0.00
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 05-16-2017	81.26	18.74	0.41	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:

Eric Luebehusen
U.S. Department of Agriculture



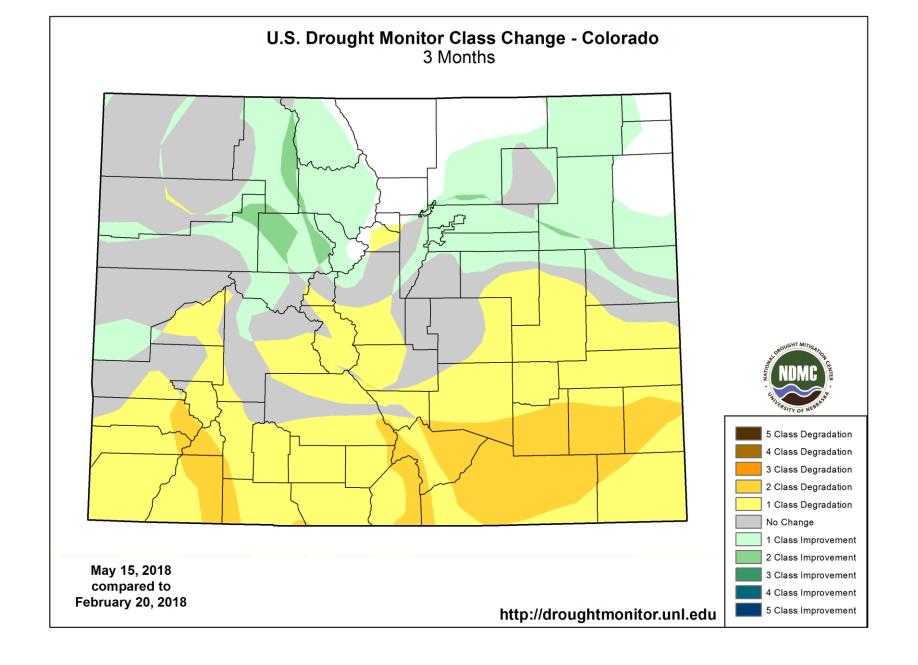


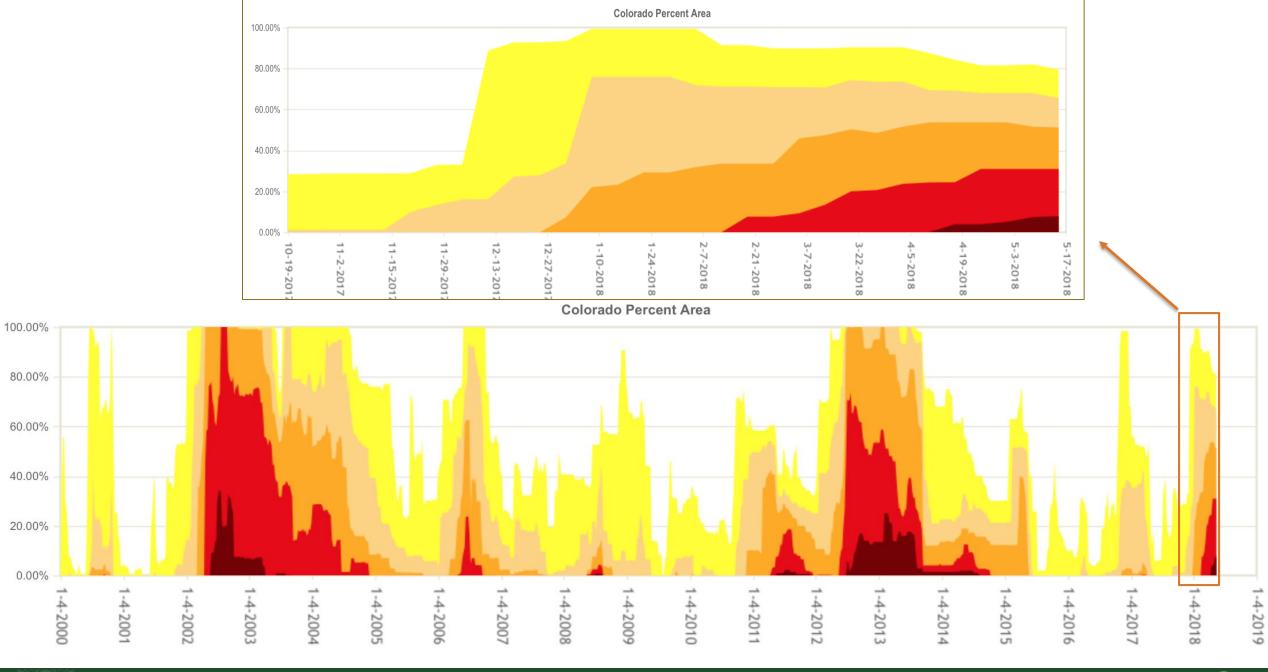




http://droughtmonitor.unl.edu/







# Becky.Bolinger@colostate.edu

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

# Thank you

