

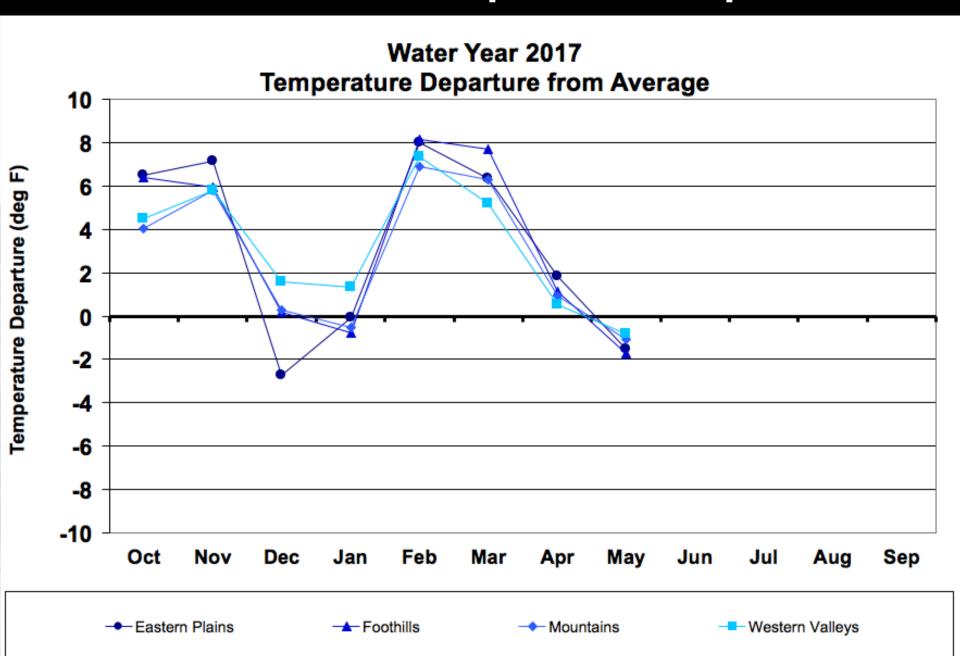


Climate Update

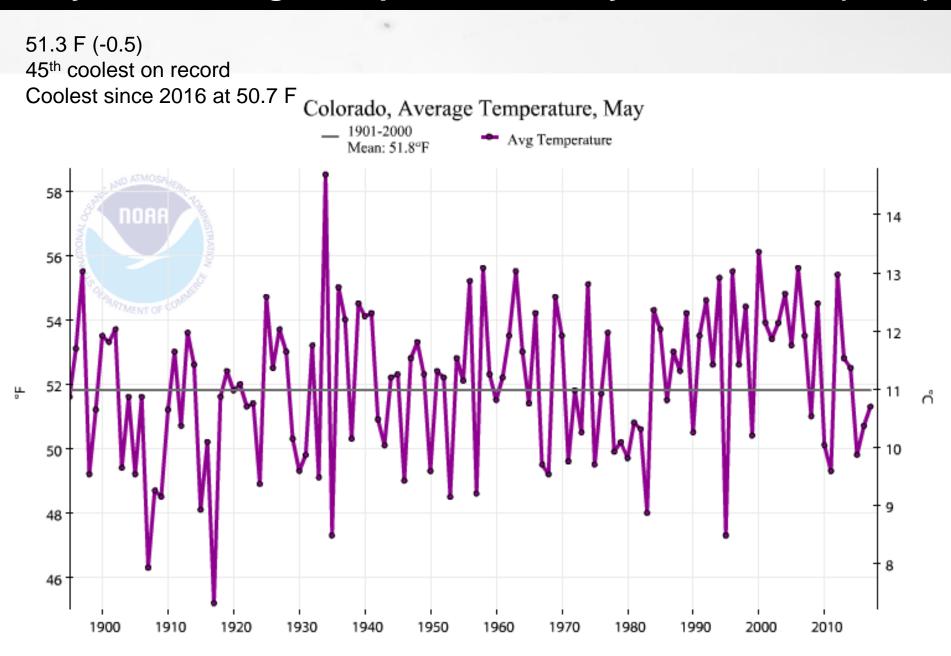
Becky Bolinger
Colorado Climate Center

Presented to Water Availability Task Force June 21, 2017 Denver, CO

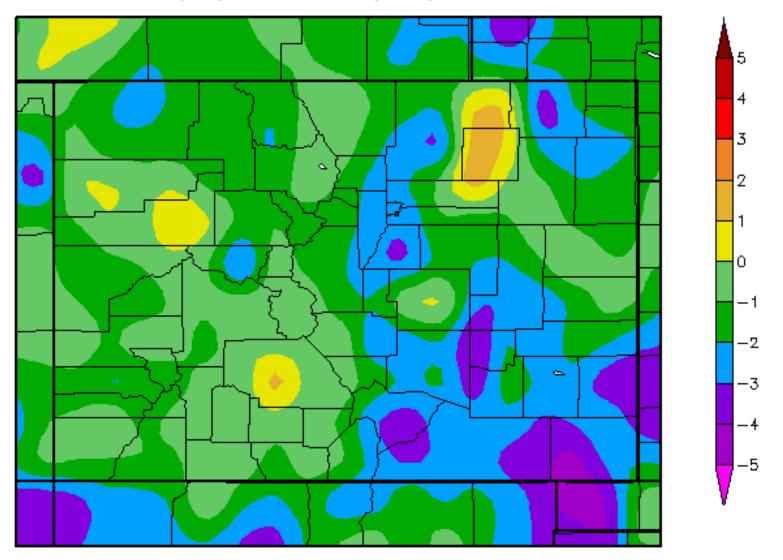
Water Year 2017 Temperature Departures



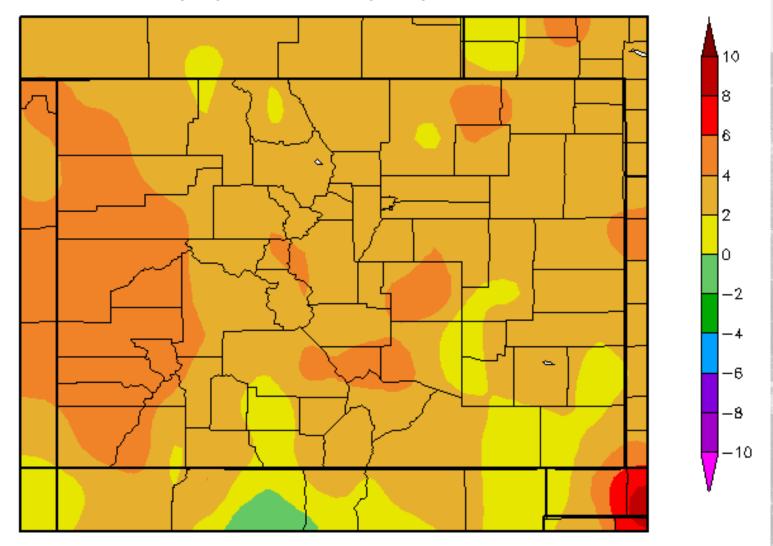
May 2017 Average Temperature History for Colorado (NCEI)



Departure from Normal Temperature (F) 5/1/2017 - 5/31/2017



Departure from Normal Temperature (F) 6/1/2017 - 6/19/2017



Daily Max/Min Temperature WY2017, with normals - Denver

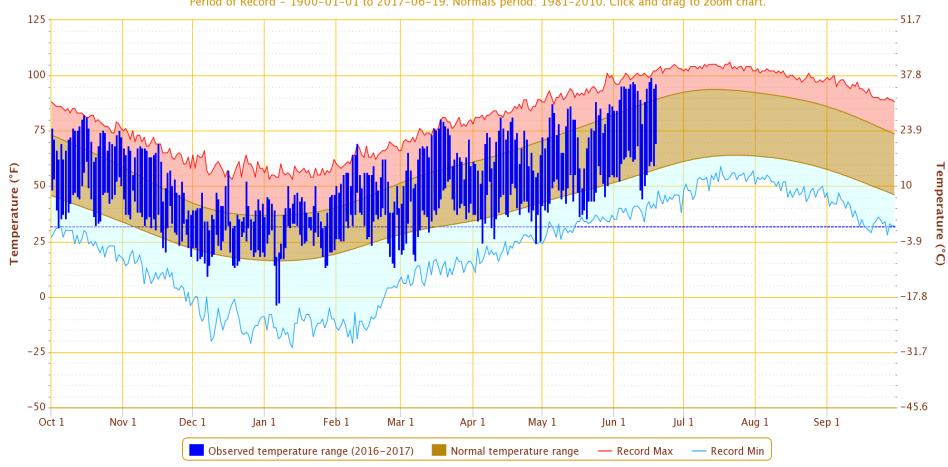
Daily Temperature Data - DENVER STAPLETON, CO

Period of Record - 1948-01-01 to 2017-06-20. Normals period: 1981-2010. Click and drag to zoom chart. 125 100 emperature (°F) -25 Oct 1 Nov 1 Dec 1 lan 1 Feb 1 Mar 1 Apr 1 May 1 Jun 1 Iul 1 Aug 1 Sep 1 Observed temperature range (2016-2017) Normal temperature range — Record Max Record Min

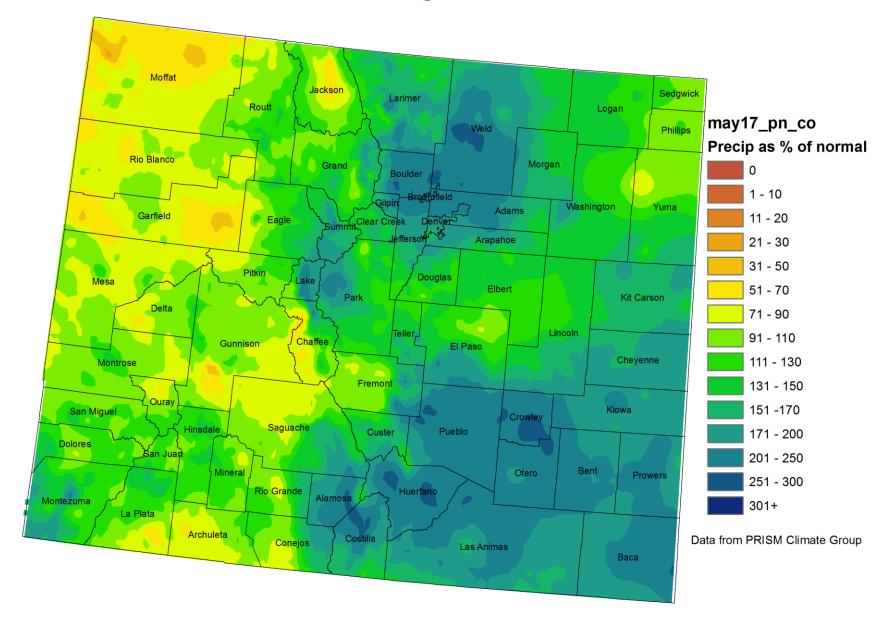
Daily Max/Min Temperature WY2017, with normals - GJT

Daily Temperature Data - GRAND JUNCTION WALKER FLD, CO

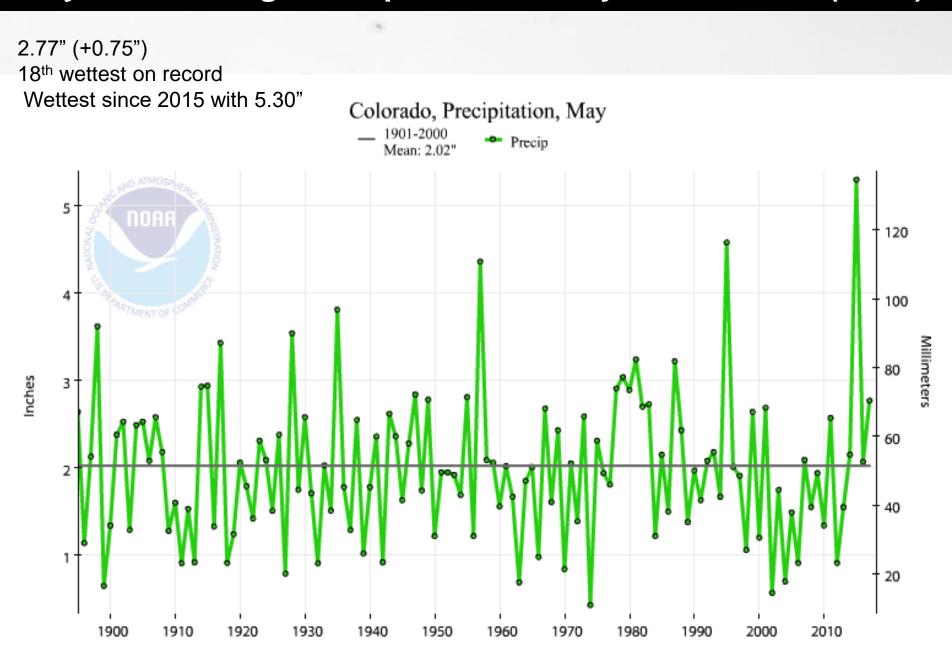
Period of Record - 1900-01-01 to 2017-06-19. Normals period: 1981-2010. Click and drag to zoom chart.



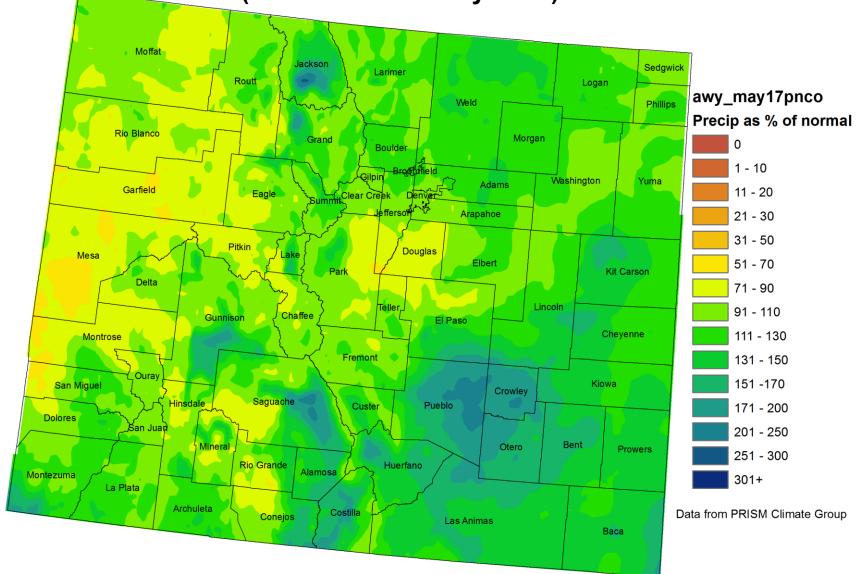
Colorado May 2017 Precipitation as a Percentage of Normal



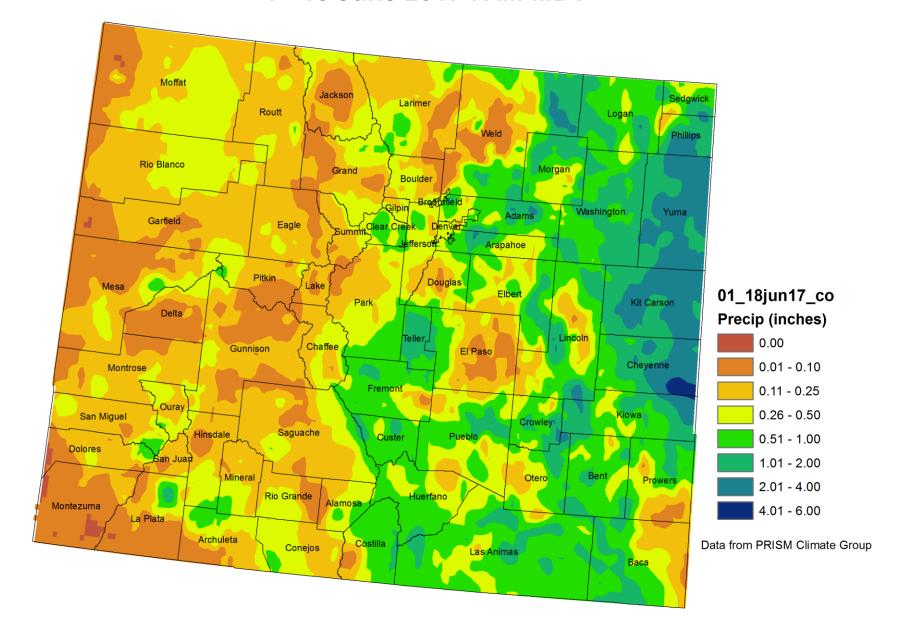
May 2017 Average Precipitation History for Colorado (NCEI)



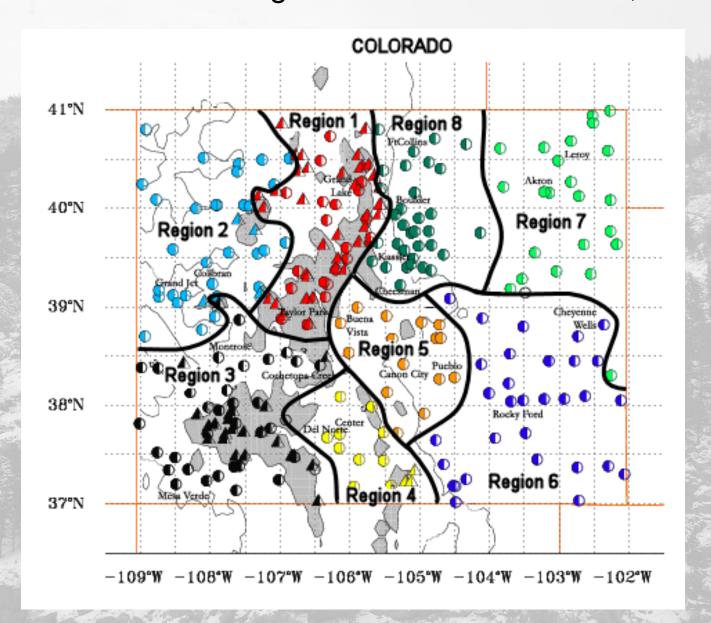
Colorado Water Year 2017 Precipitation as a Percentage of Normal (October 2016 - May 2017)



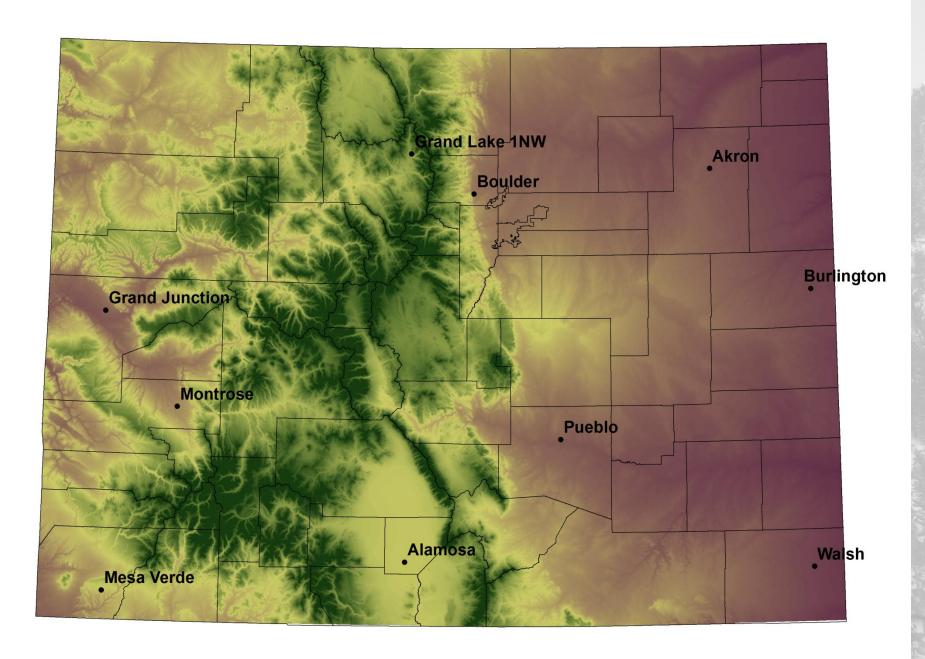
Colorado Month to Date Precipitation 1 - 18 June 2017 7AM MDT



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

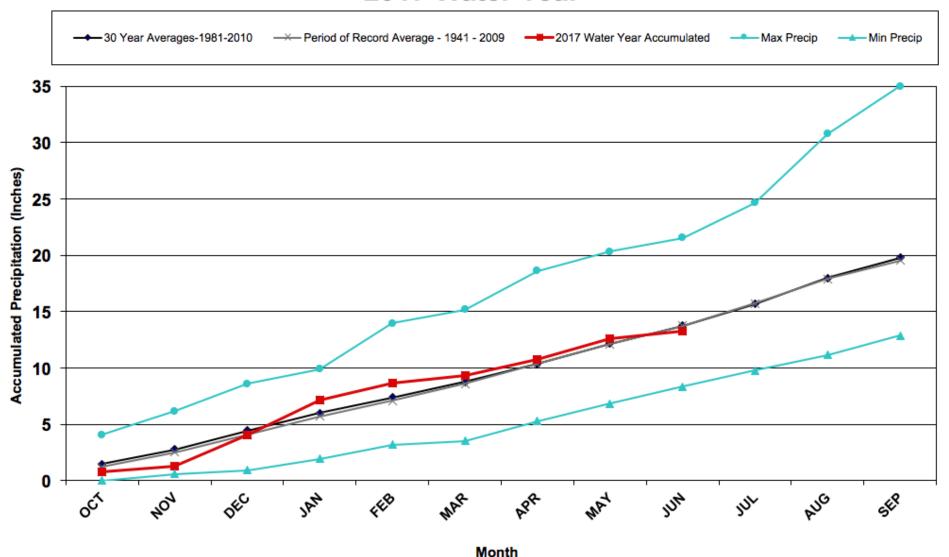


NWS Cooperative Stations for WATF



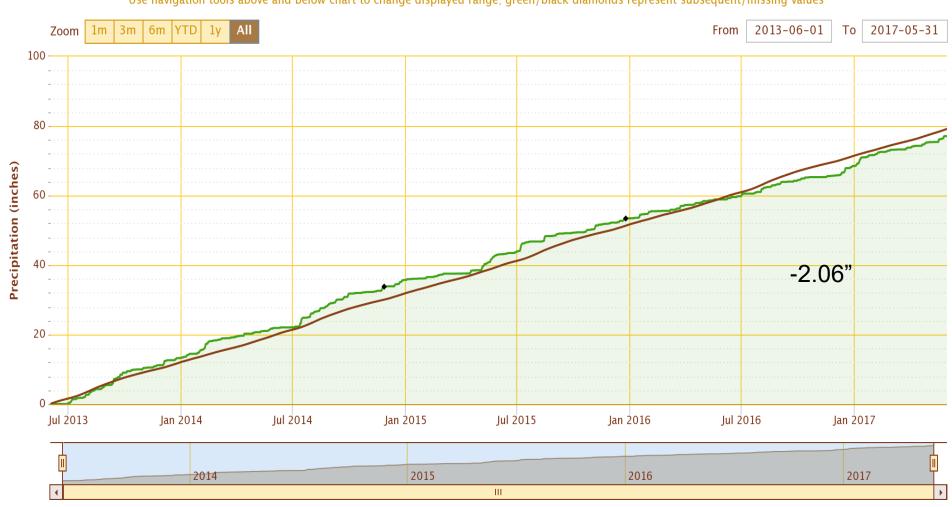
Division 1 – Grand Lake 1NW

Grand Lake 1 NW 2017 Water Year



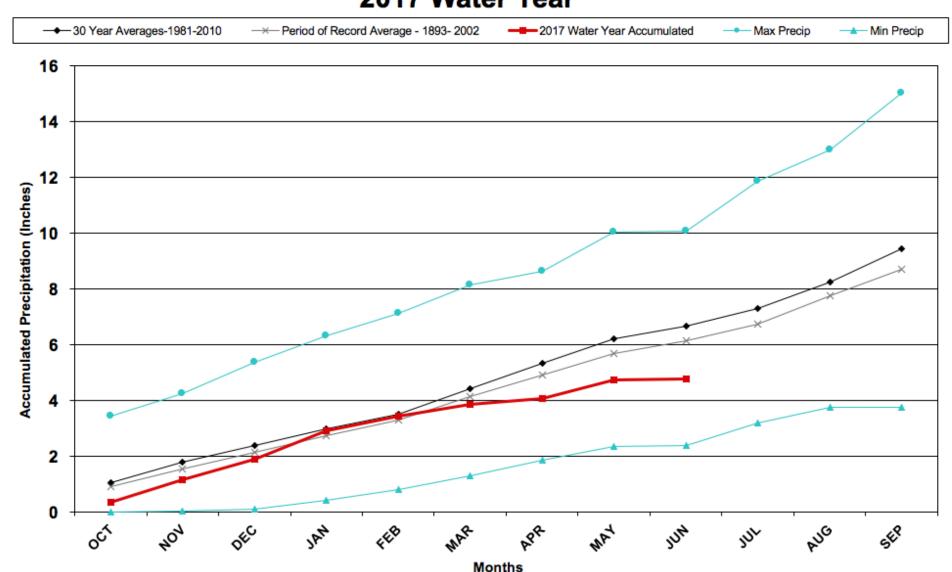
Division 1 - Grand Lake 1NW

Accumulated Precipitation - GRAND LAKE 1 NW, CO



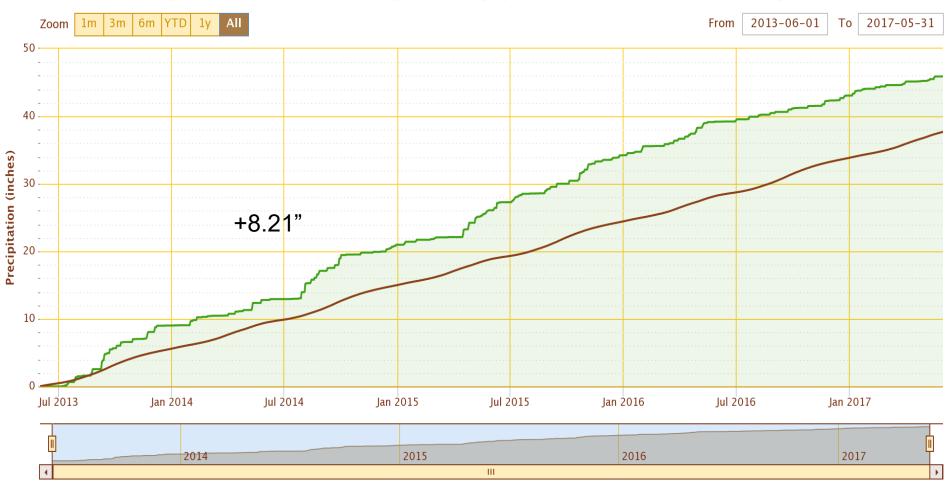
Division 2 – Grand Junction

Grand Junction WSFO 2017 Water Year



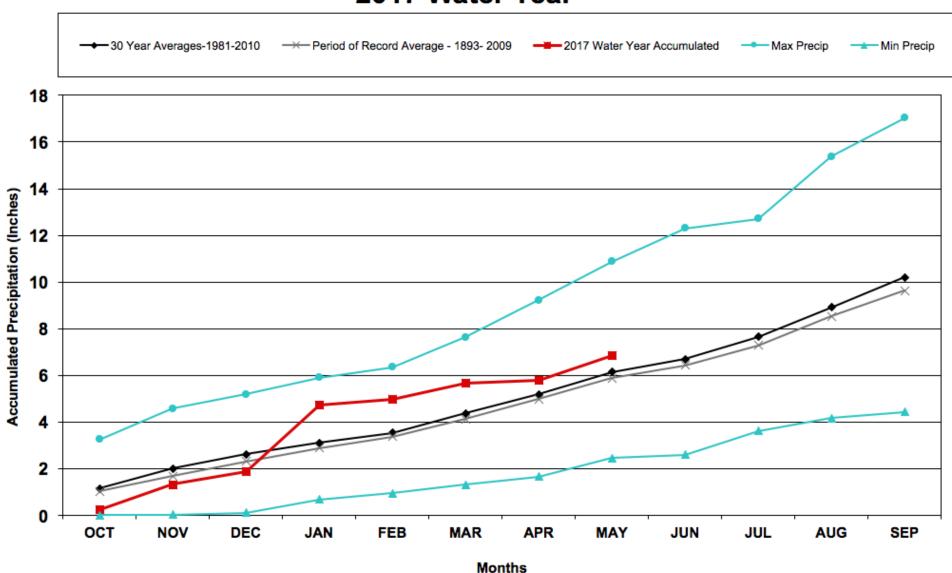
Division 2 - Grand Junction

Accumulated Precipitation - GRAND JUNCTION WALKER FLD, CO



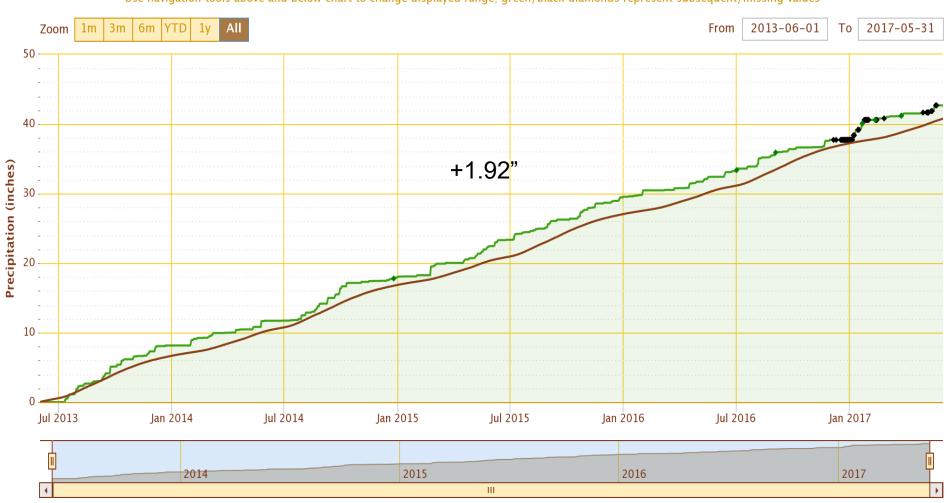
Division 3 - Montrose

Montrose #2 2017 Water Year



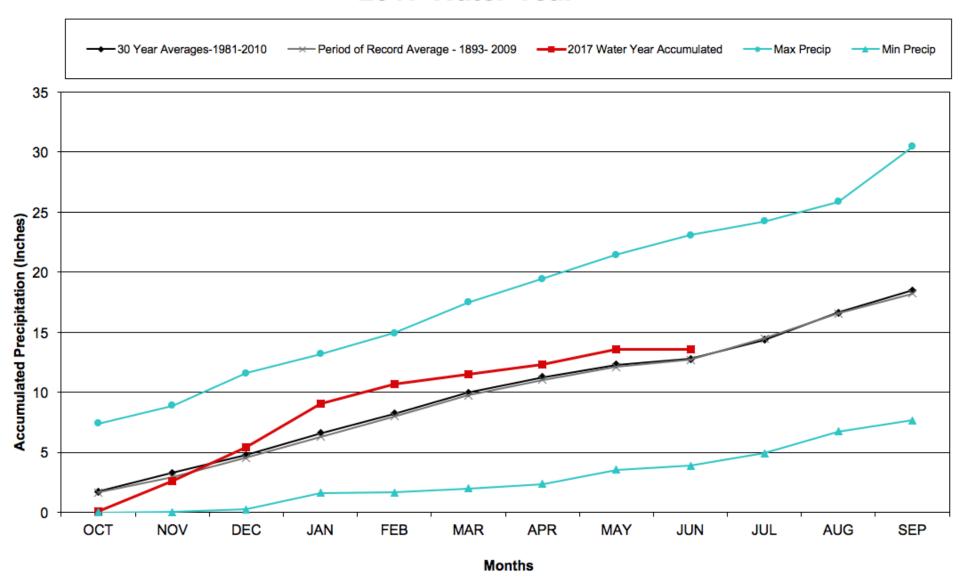
Division 3 – Montrose

Accumulated Precipitation - MONTROSE #2, CO



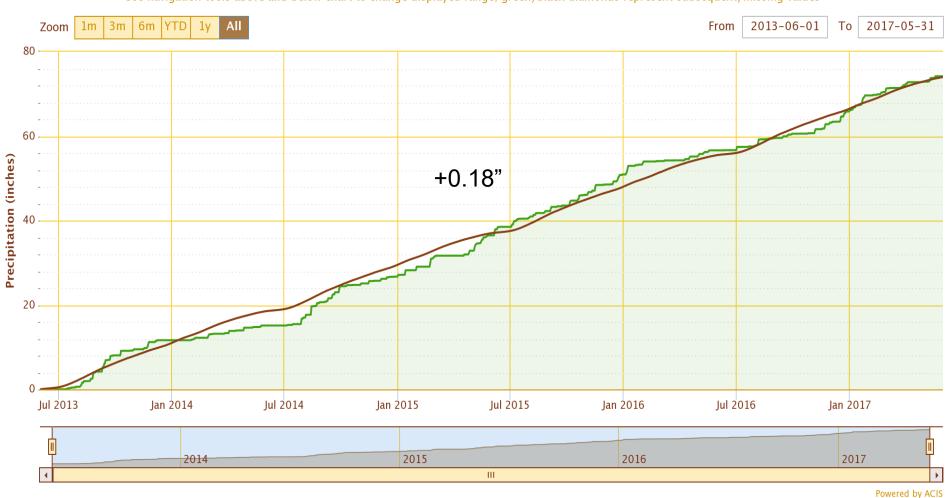
Division 3 – Mesa Verde NP

Mesa Verde NP 2017 Water Year



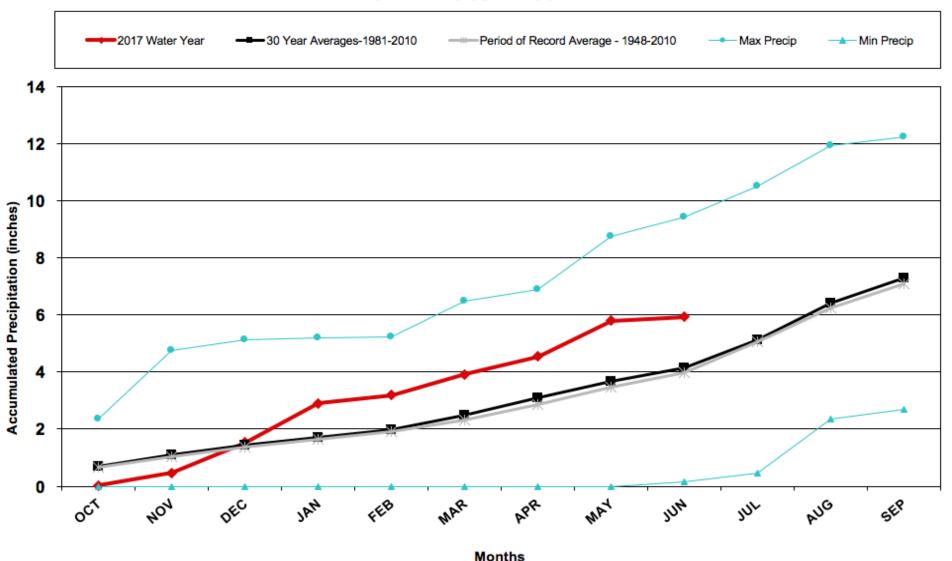
Division 3 - Mesa Verde NP

Accumulated Precipitation - MESA VERDE NP, CO



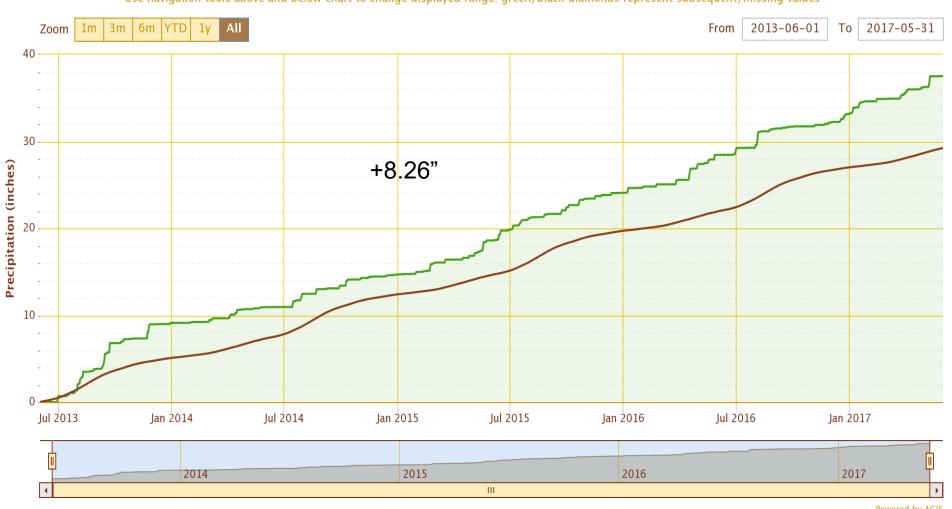
Division 4 – Alamosa

Alamosa WSO 2017 Water Year



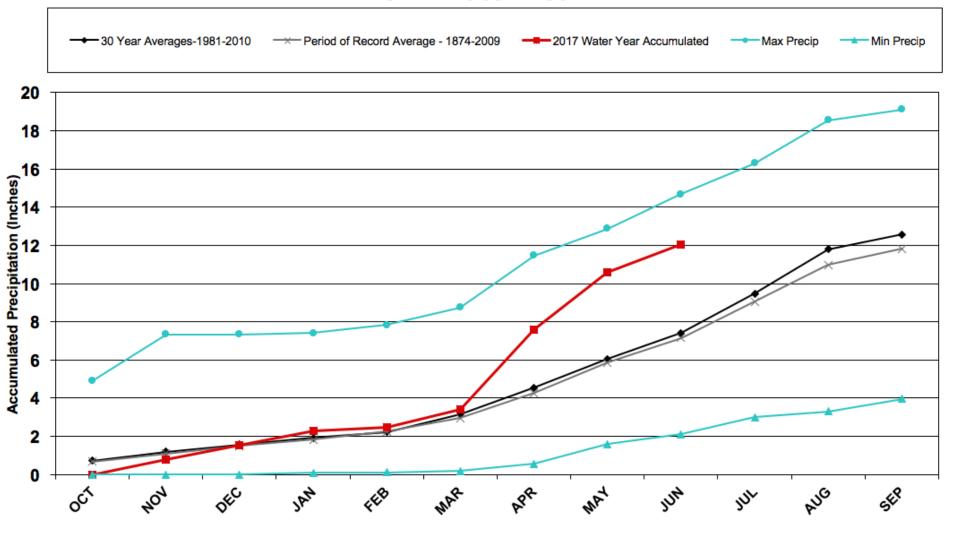
Division 4 – Alamosa

Accumulated Precipitation - ALAMOSA SAN LUIS AP, CO



Division 5 - Pueblo

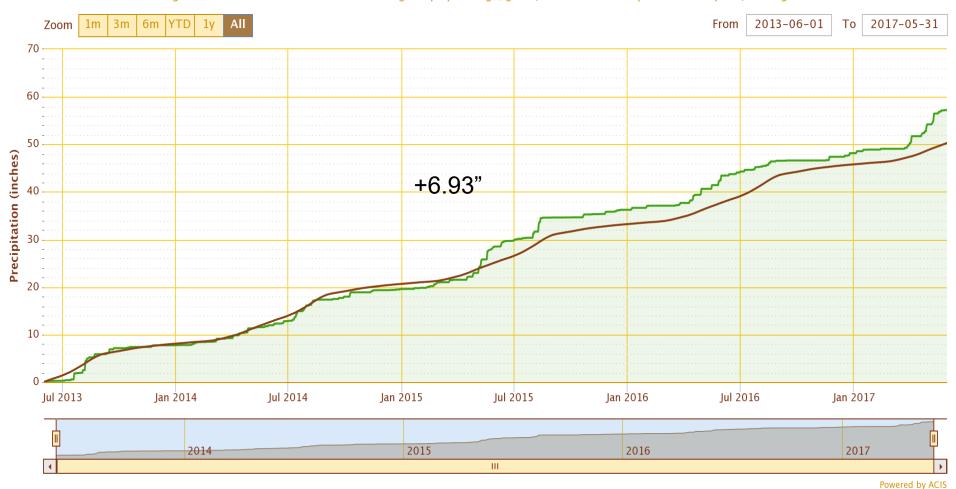
Pueblo WSO 2017 Water Year



Months

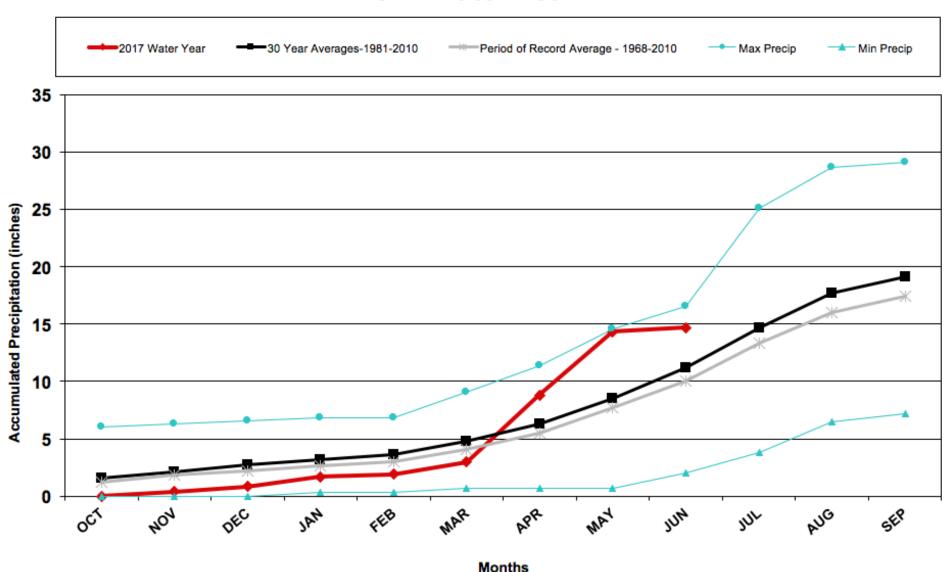
Division 5 - Pueblo

Accumulated Precipitation - PUEBLO MEM AP, CO



Division 6 - Walsh

Walsh 2017 Water Year



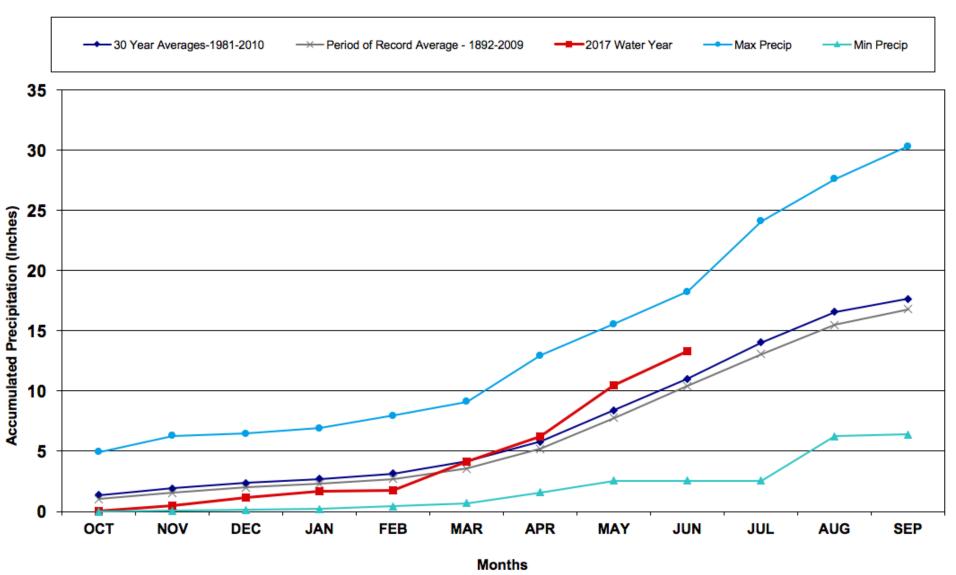
Division 6 - Walsh

Accumulated Precipitation - WALSH 1 W, CO



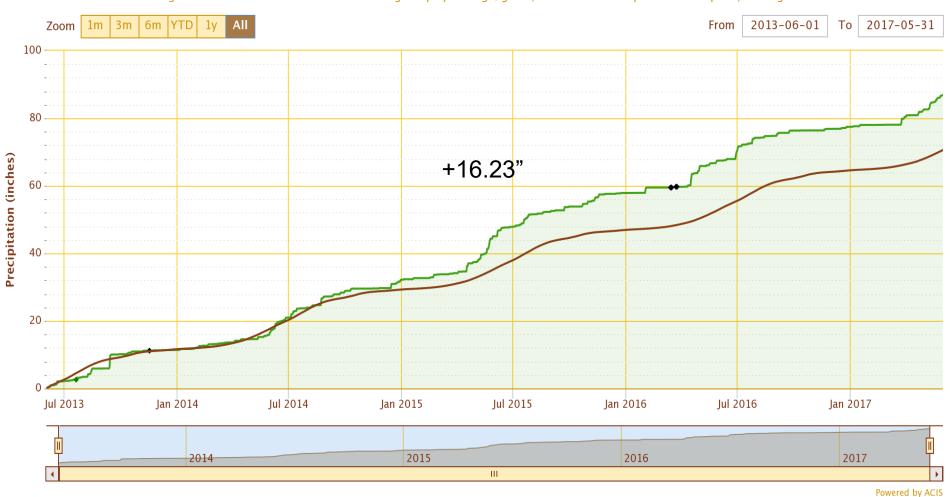
Division 6 - Burlington

Burlington 2017 Water Year



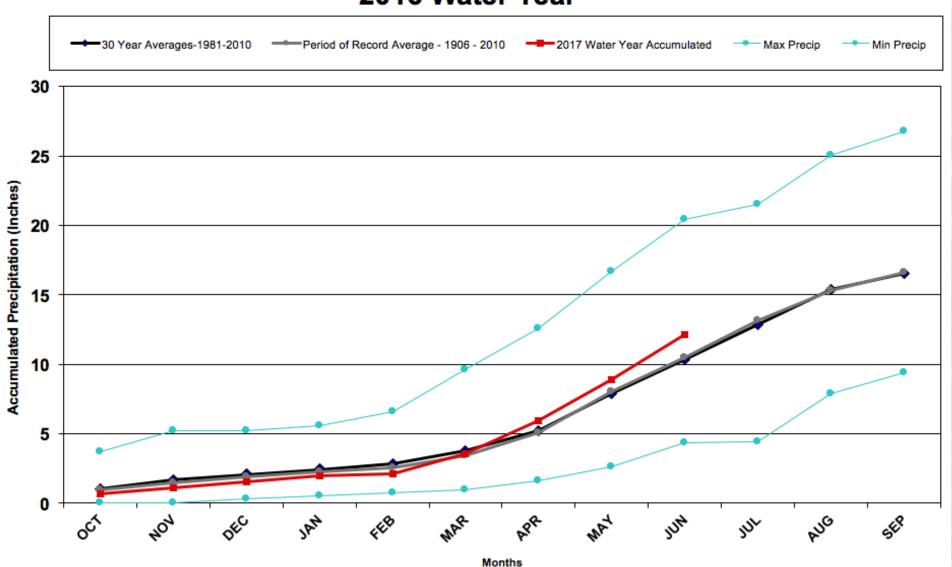
Division 6 - Burlington

Accumulated Precipitation - BURLINGTON, CO



Division 7 – Akron

Akron 4E 2016 Water Year



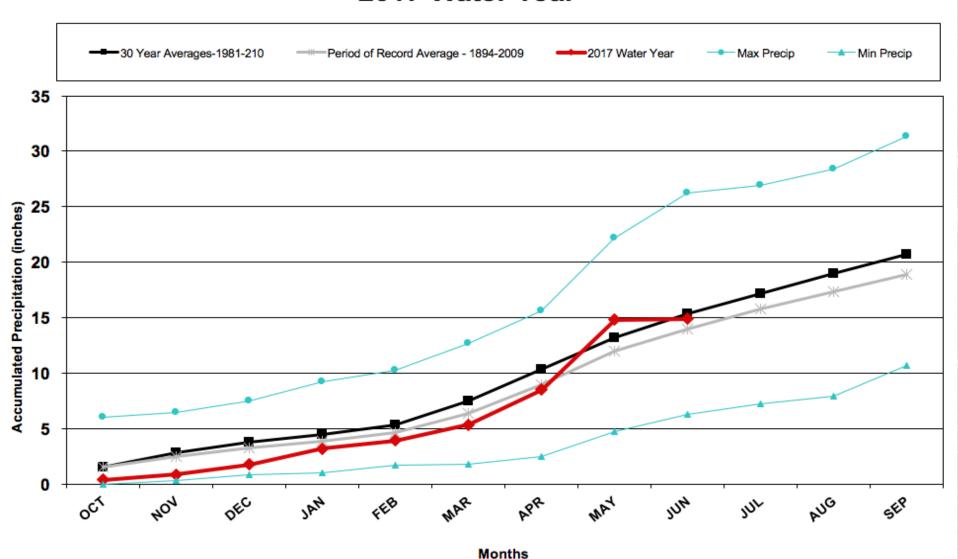
Division 7 – Akron

Accumulated Precipitation - AKRON 4 E, CO



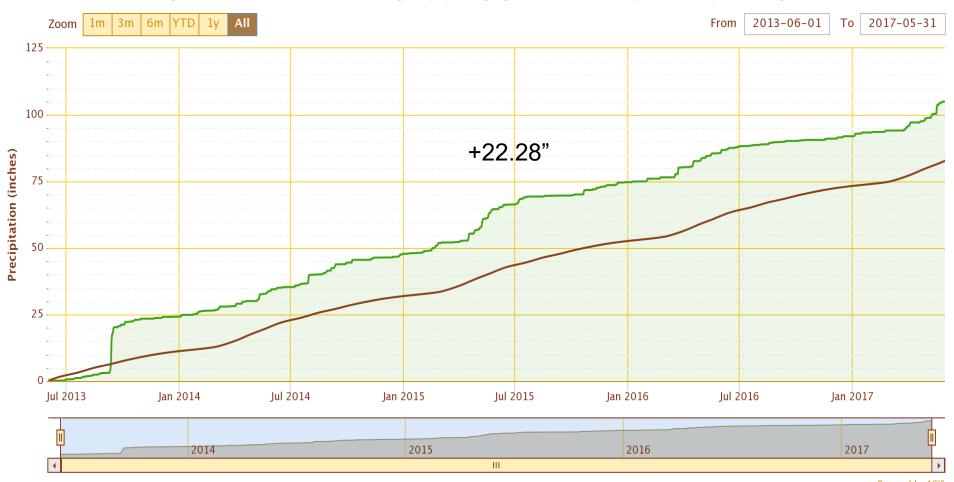
Division 8 - Boulder

Boulder 2017 Water Year



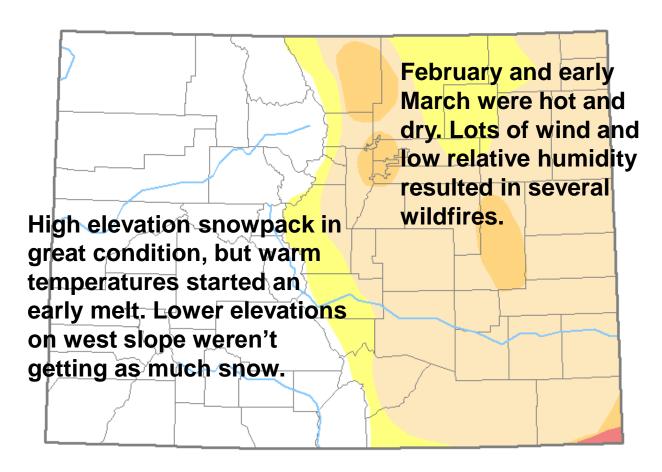
Division 8 - Boulder

Accumulated Precipitation - BOULDER, CO



March 14, 2017

(Released Thursday, Mar. 16, 2017)
Valid 8 a.m. EDT



Intensity:

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional 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



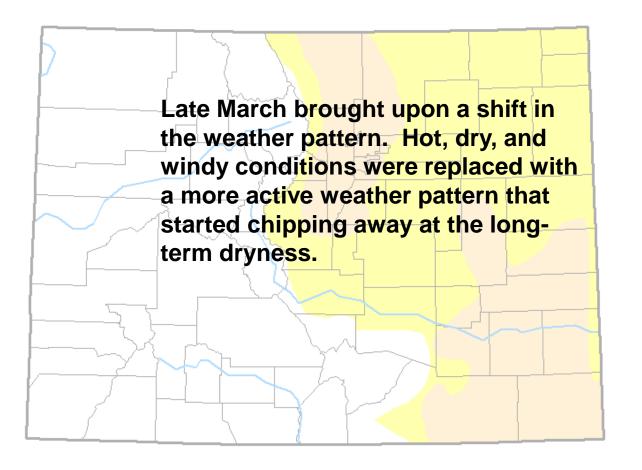






April 11, 2017

(Released Thursday, Apr. 13, 2017)
Valid 8 a.m. EDT



Intensity:

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

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

Author:

Anthony Artusa
NOAA/NWS/NCEP/CPC









May 9, 2017

(Released Thursday, May. 11, 2017)
Valid 8 a.m. EDT



A late April blizzard wiped out the lingering drought conditions in southeast CO. Impacts would then become a result of late season cold and snow, with cattle losses being the largest reported impact.

Intensity:

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional 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



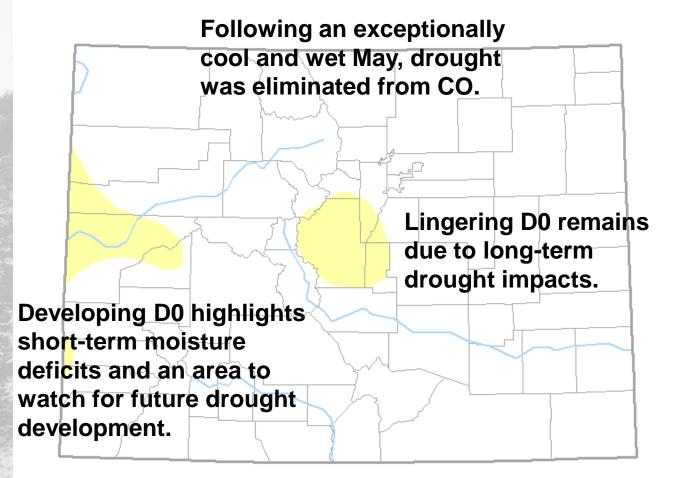






June 13, 2017

(Released Thursday, Jun. 15, 2017)
Valid 8 a.m. EDT



Intensity:

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

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

Author:

David Miskus NOAA/NWS/NCEP/CPC

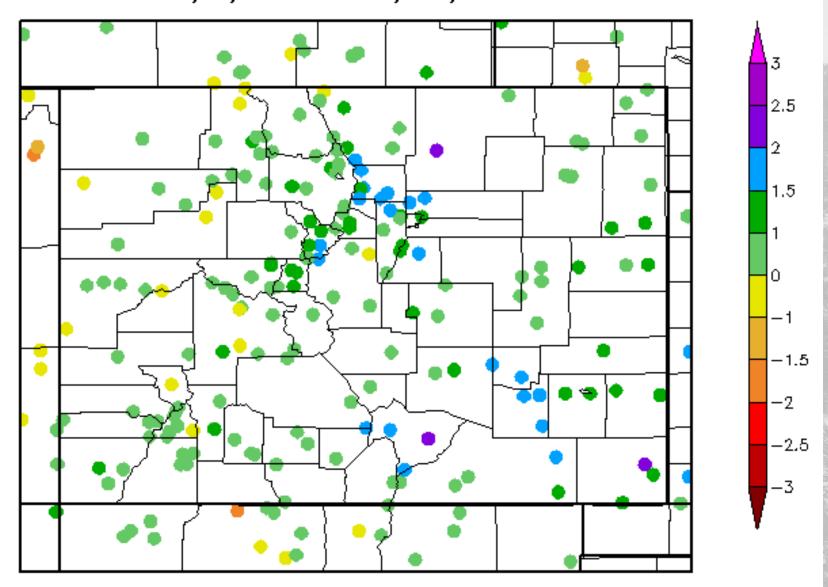




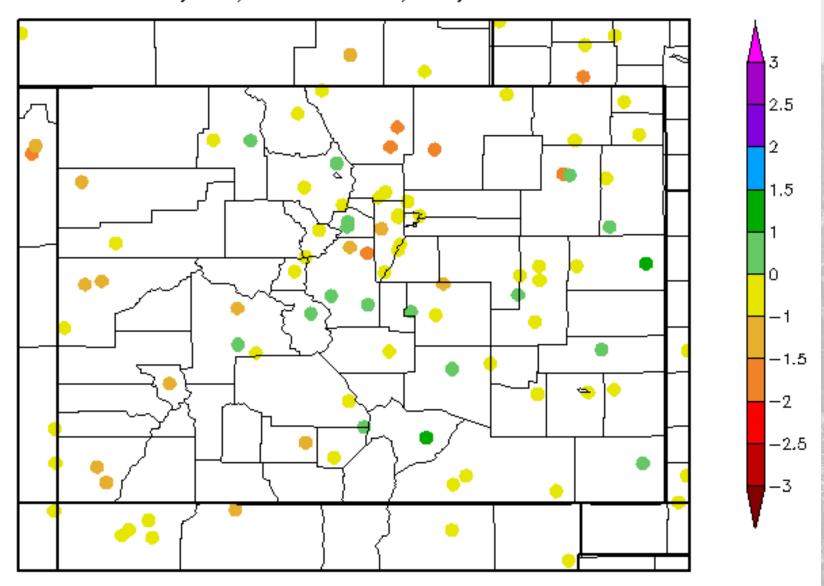




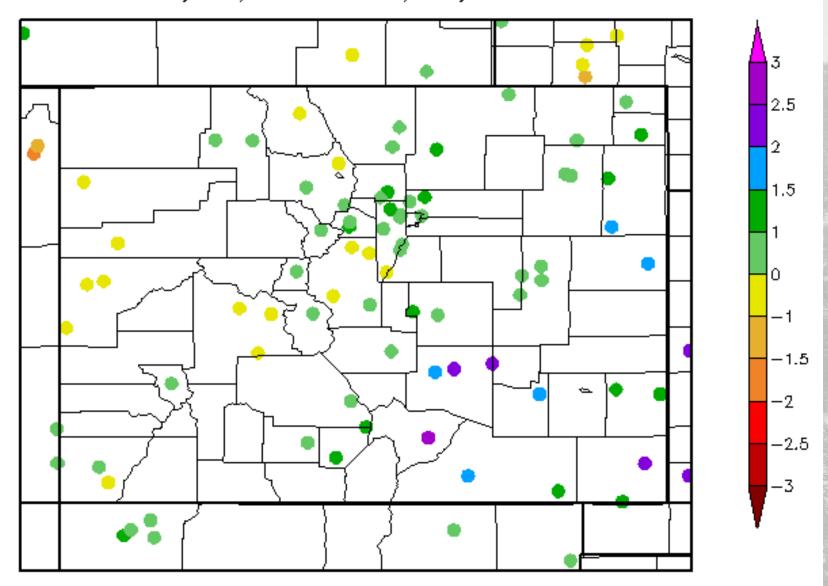
Monthly SPI 5/1/2017 - 5/31/2017



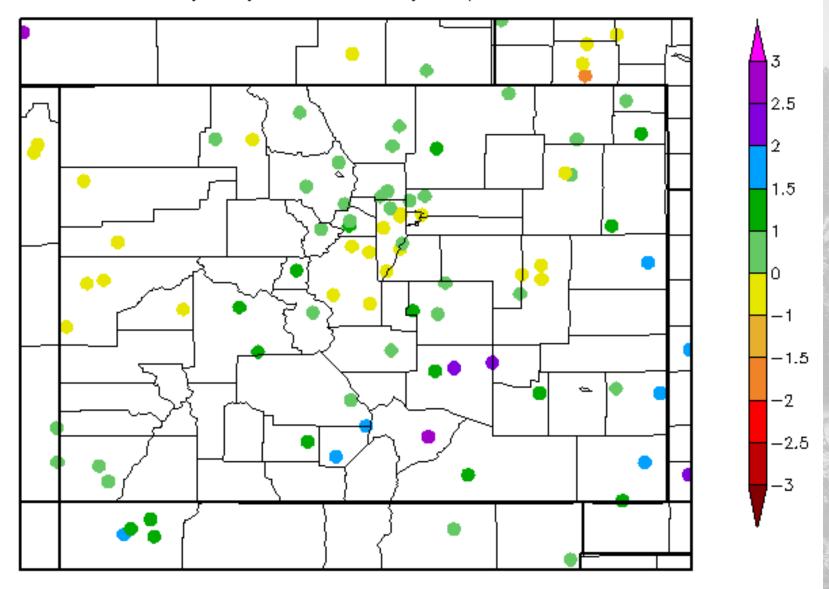
30 Day SPI 5/21/2017 - 6/19/2017



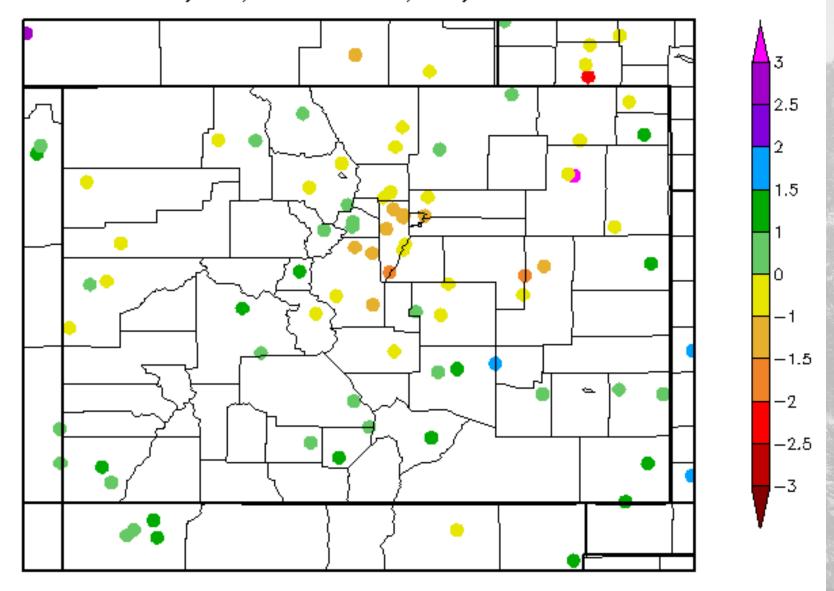
90 Day SPI 3/21/2017 - 6/18/2017



6 Month SPI 12/19/2016 - 6/18/2017

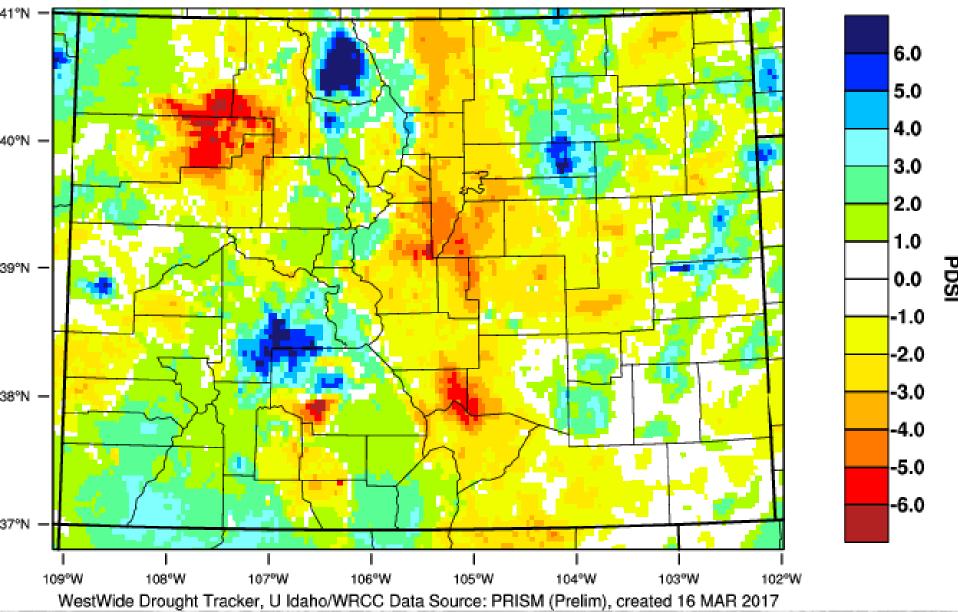


12 Month SPI 6/19/2016 - 6/18/2017

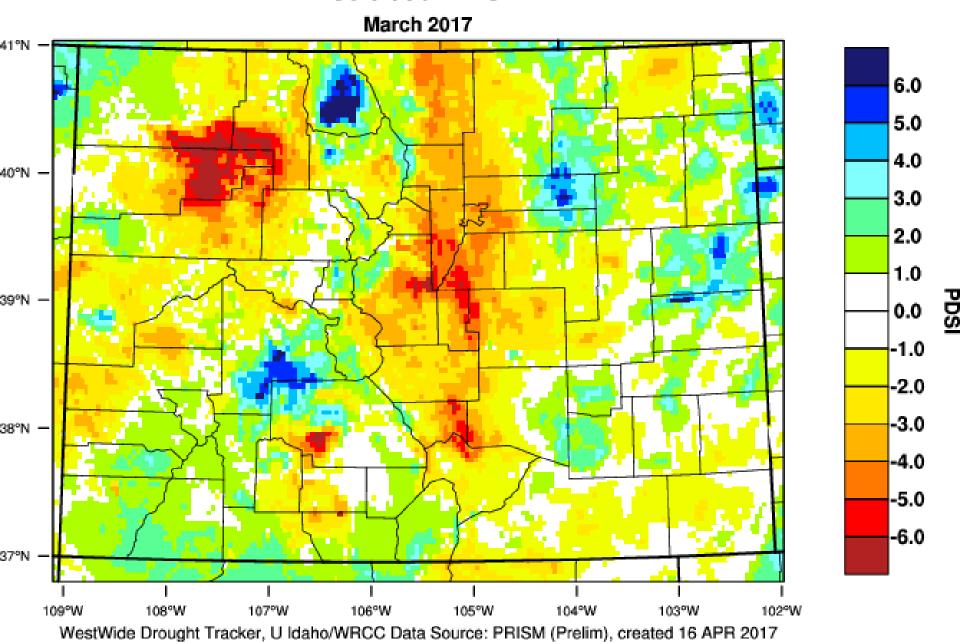


Colorado - PDSI

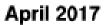


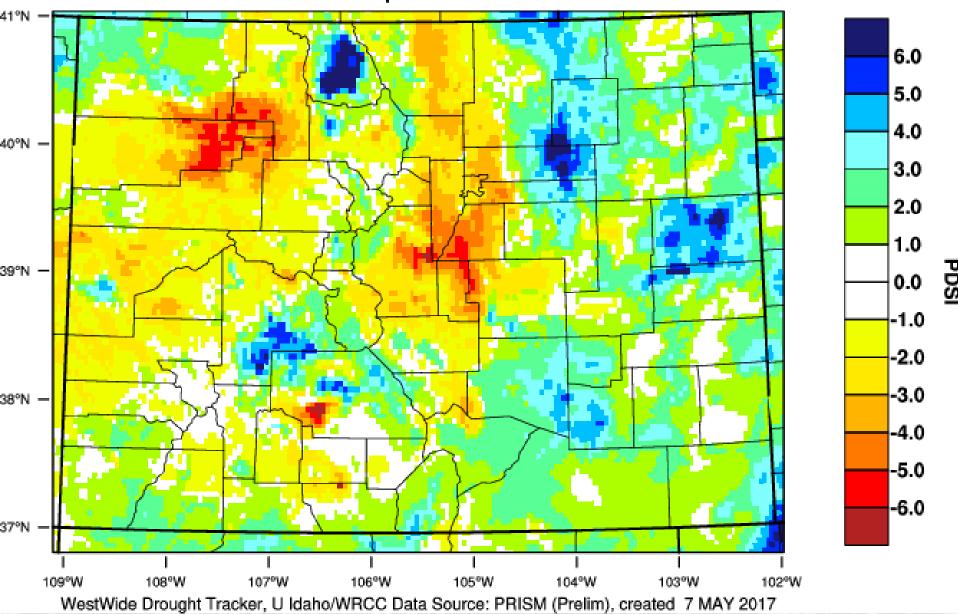


Colorado - PDSI



Colorado - PDSI





Colorado - PDSI May 2017 6.0 5.0 4.0 3.0 2.0 1.0 39°N 0.0 -1.0 -2.0 -3.0 38°N -4.0 -5.0 -6.0 108°W 107°W 106°W 105°W 104°W 102°W 109°W 103°W WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 16 JUN 2017

Colorado Climate Center

Archived WATF presentations can be found at:

http://climate.colostate.edu/ccc_archive.html



