



Climate Update

(but sorry - no photo update - still a cow)

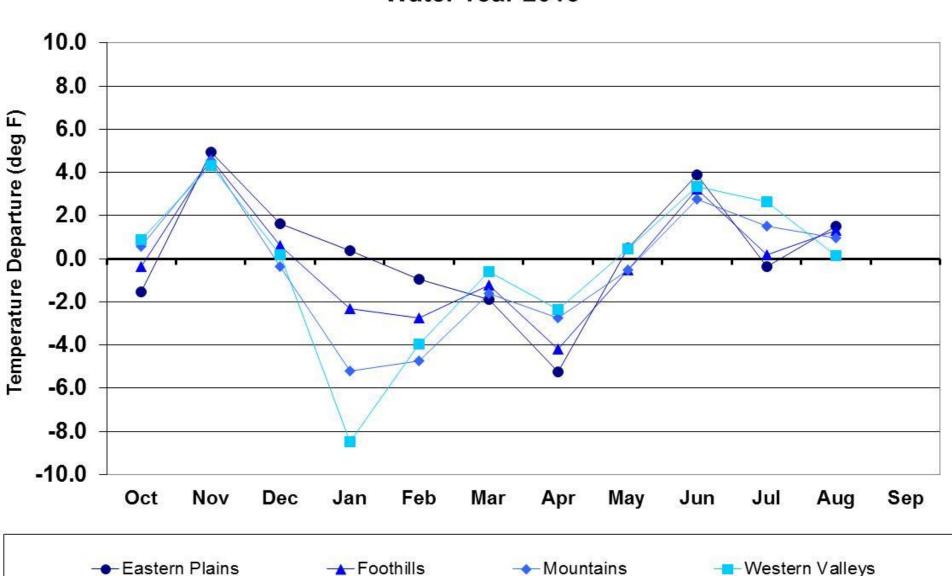
Nolan Doesken Colorado Climate Center

Colorado State Climatologist Colorado State University

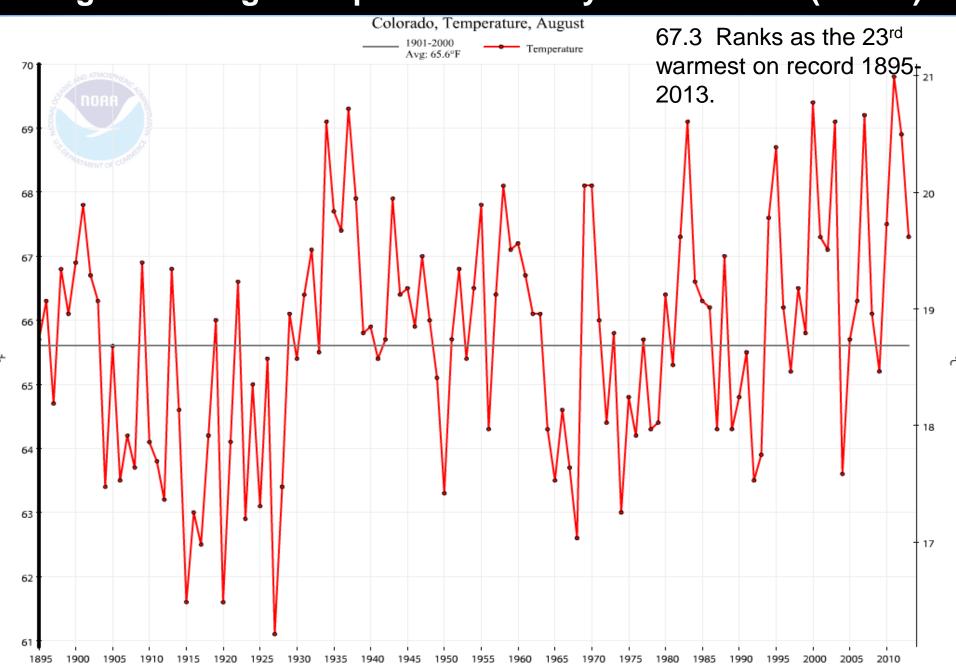
Presented to Water Availability Task Force 18 September 2013 Denver, CO

Water Year 2013 Temperature Departures

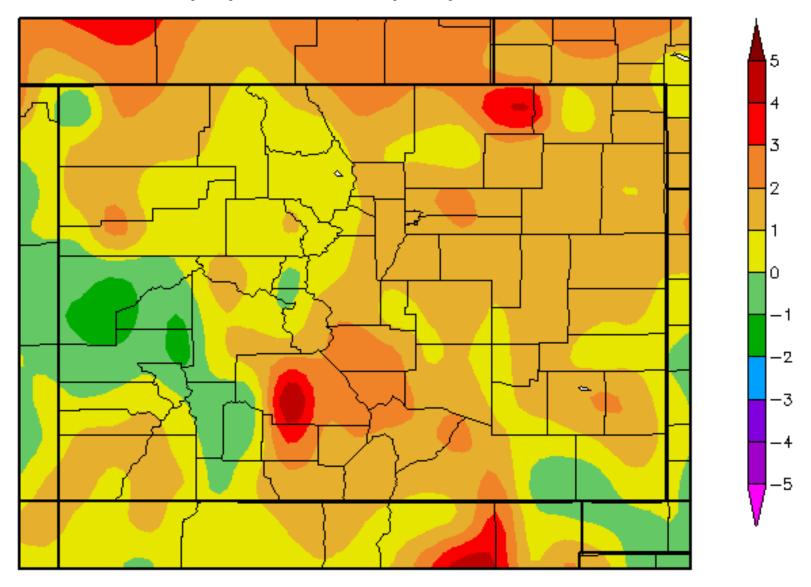




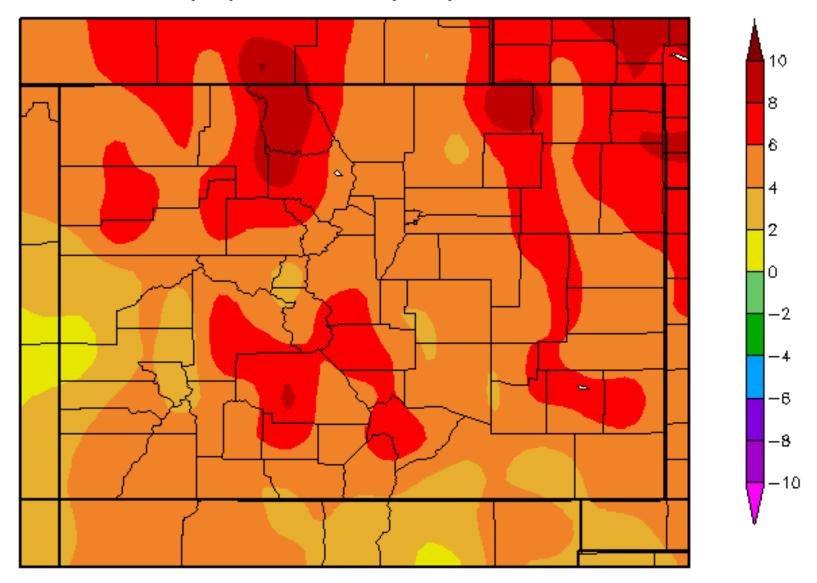
August Average Temperature History for Colorado (NCDC)



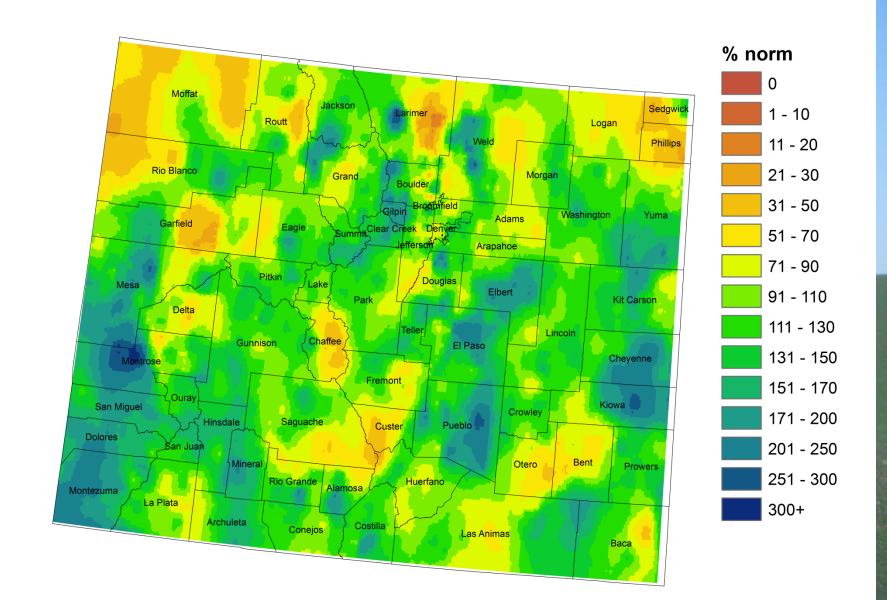
Departure from Normal Temperature (F) 8/1/2013 - 8/31/2013



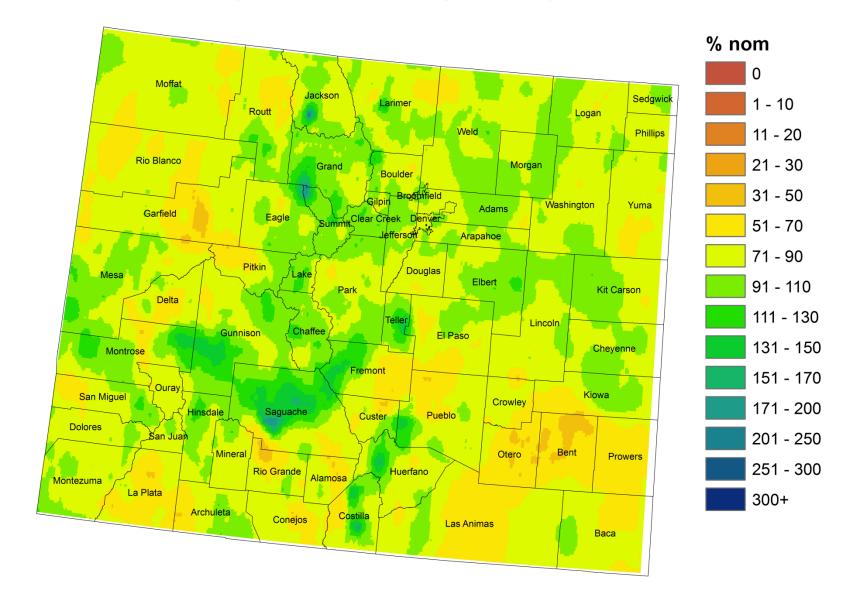
Departure from Normal Temperature (F) 9/1/2013 - 9/16/2013



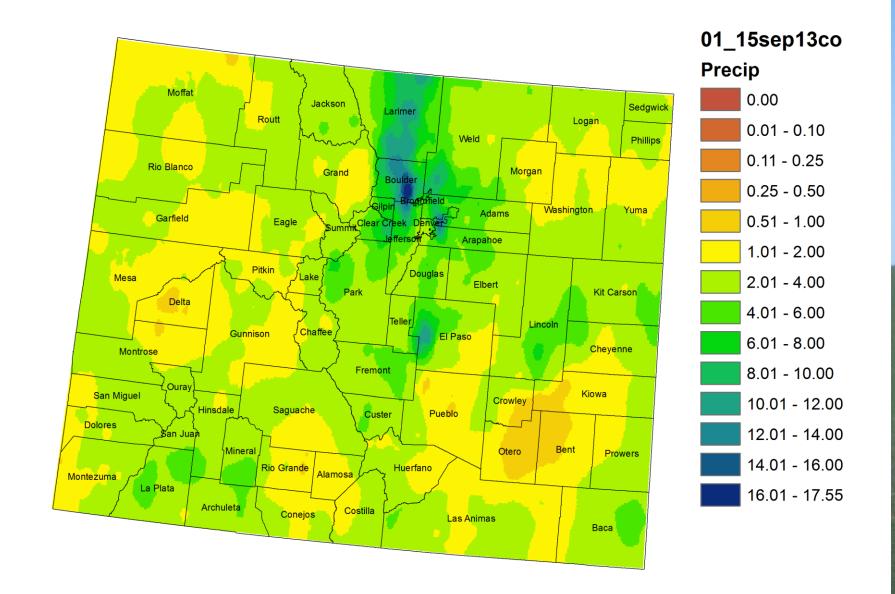
Colorado August 2013 Precipitation as Percentage of Normal



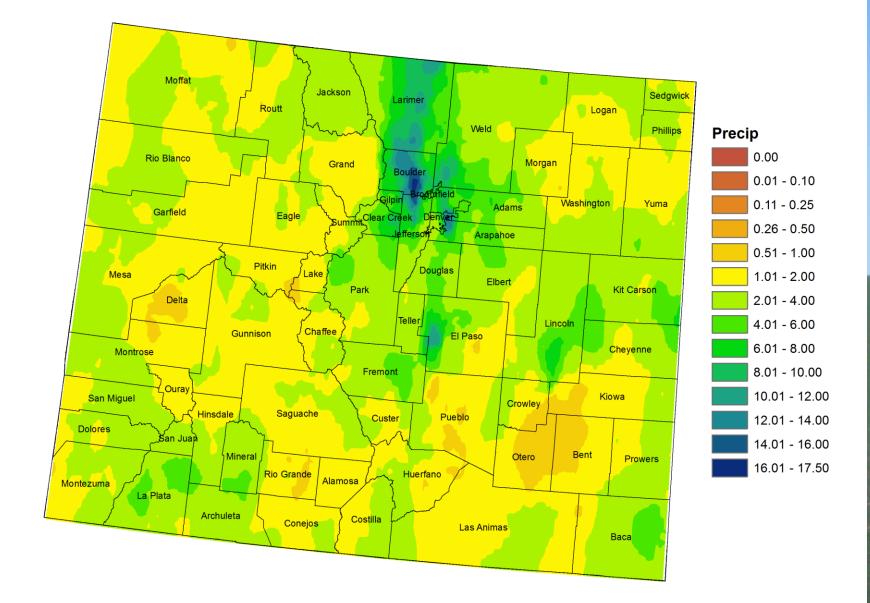
Colorado Water Year 2013 Precipitation as Percentage of Normal (October 2012 - August 2013)



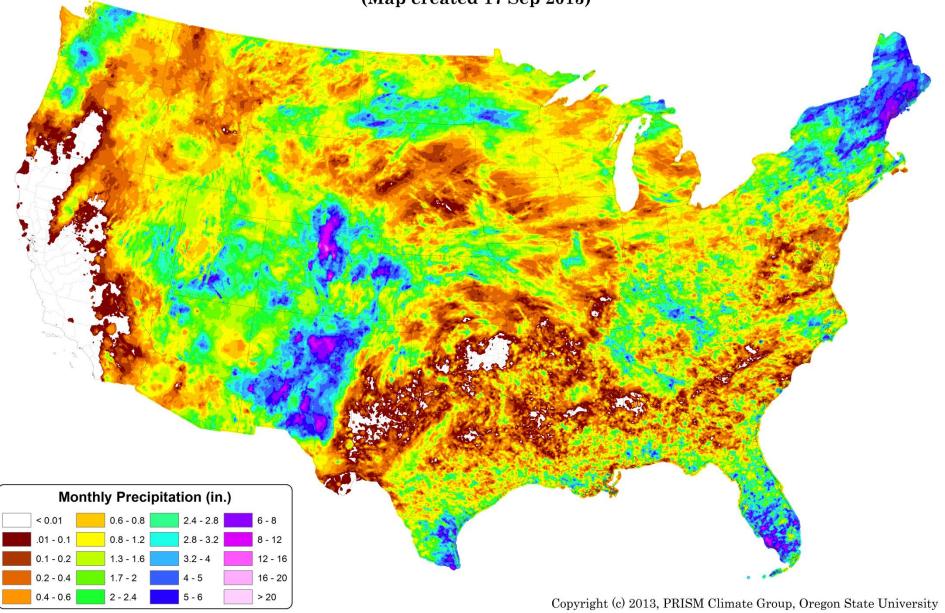
Colorado Month to Date Precipitation (in) 1- 15 September 2013



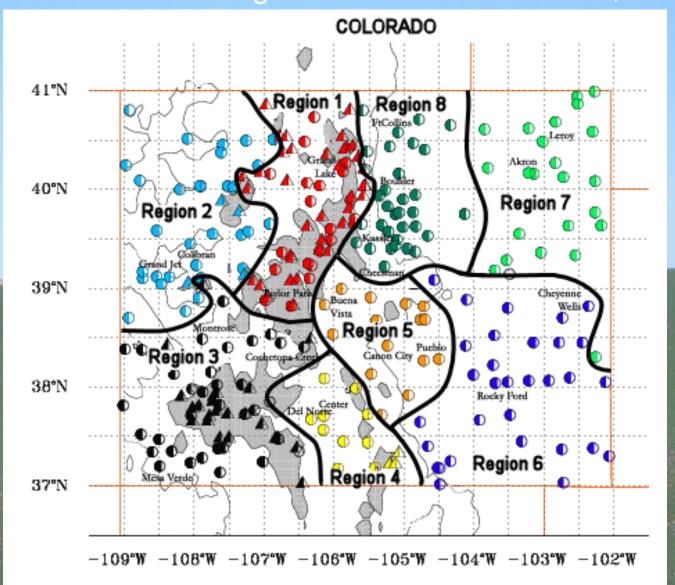
Preliminary Precipitation Accumulation for Colorado (inches) 8 - 15 September 2013



Total Precipitation: 01 September 2013 - 16 September 2013 Period ending 7 AM EST 16 Sep 2013 (Map created 17 Sep 2013)

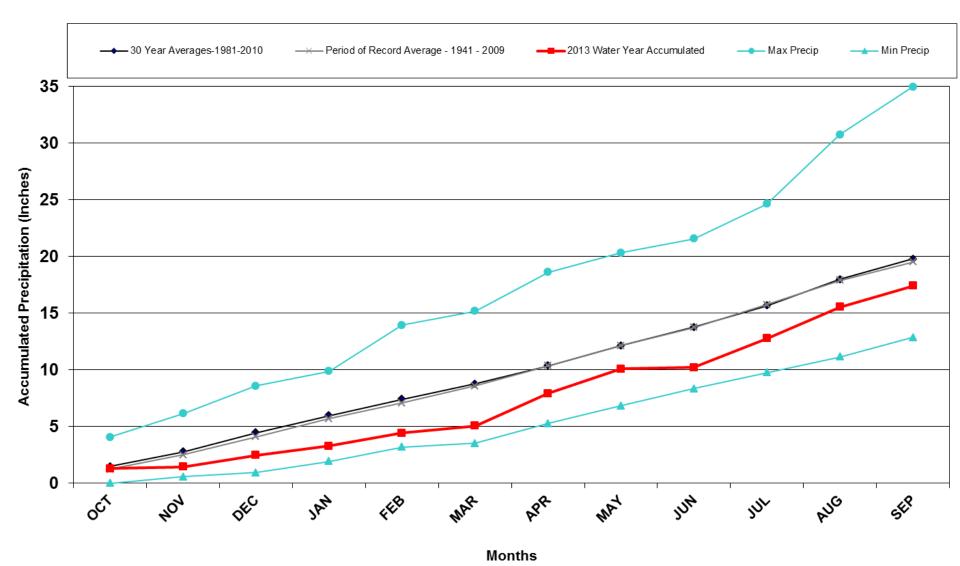


Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO



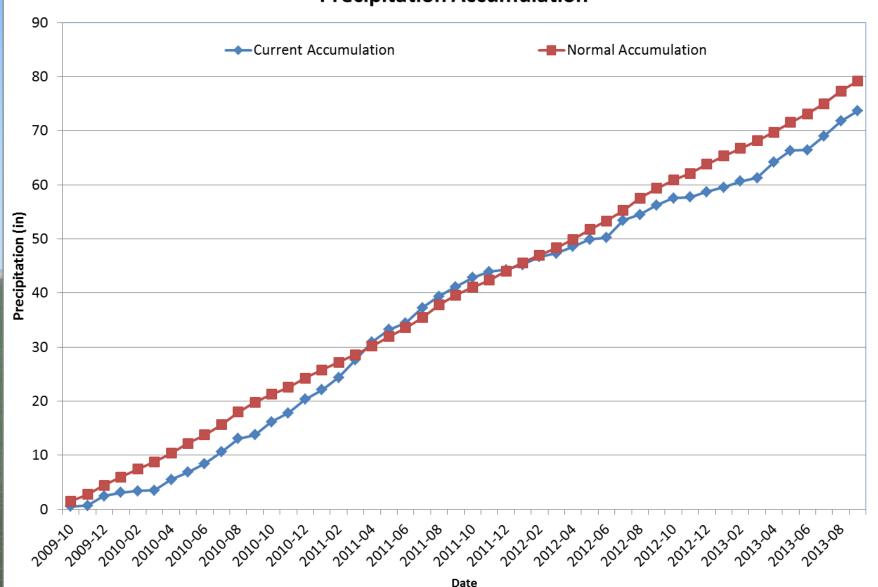
Division 1 – Grand Lake 1NW

Grand Lake 1 NW 2013 Water Year



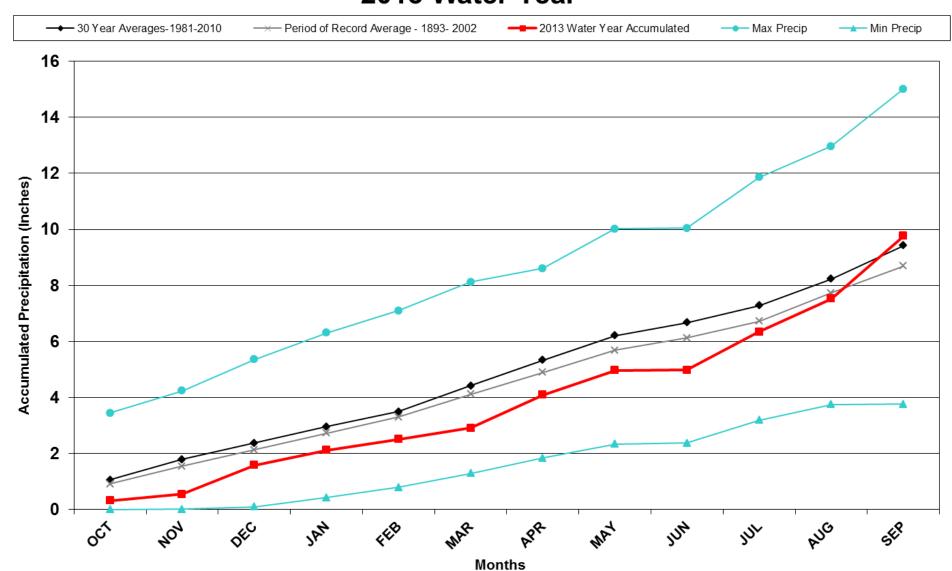
Division 1 – Grand Lake 1NW



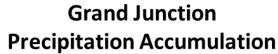


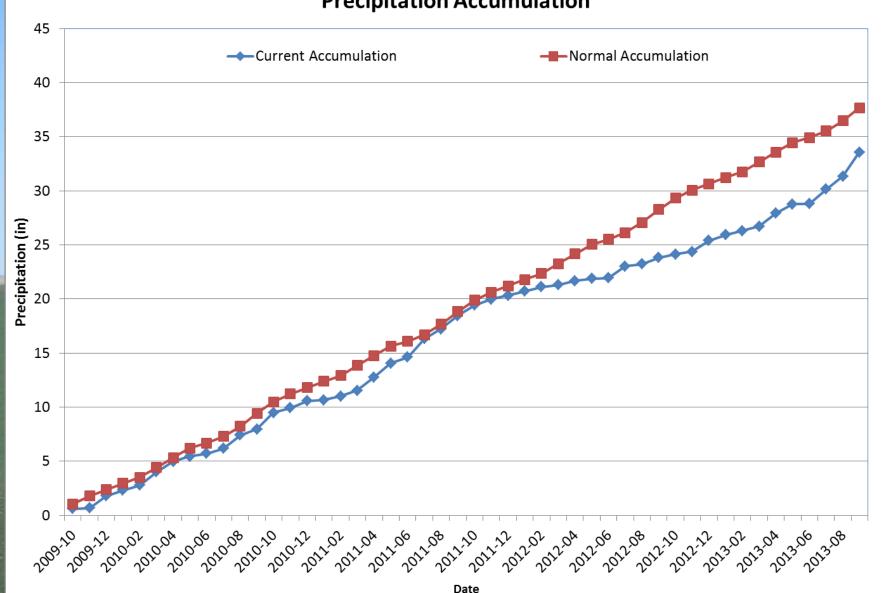
Division 2 – Grand Junction

Grand Junction WSFO 2013 Water Year



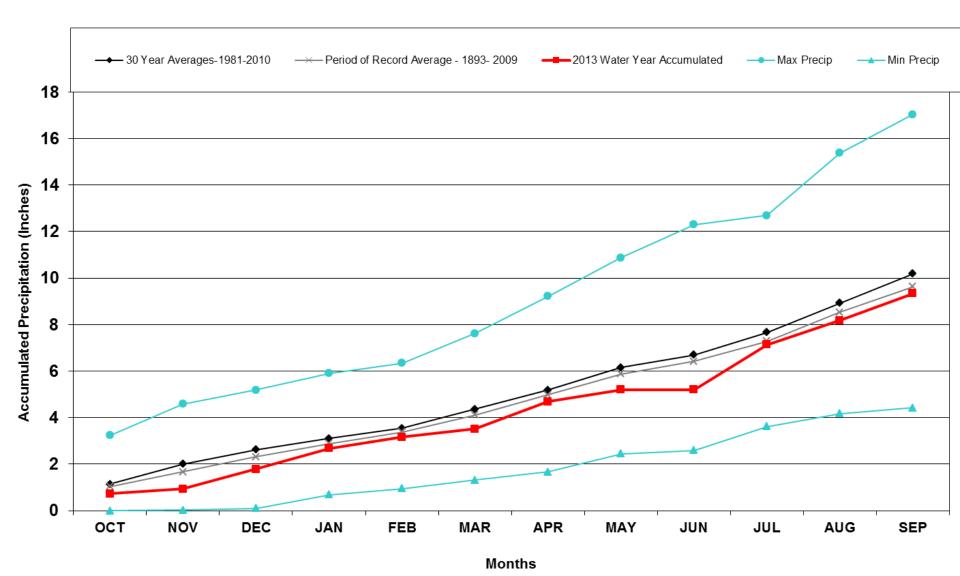
Division 2 – Grand Junction





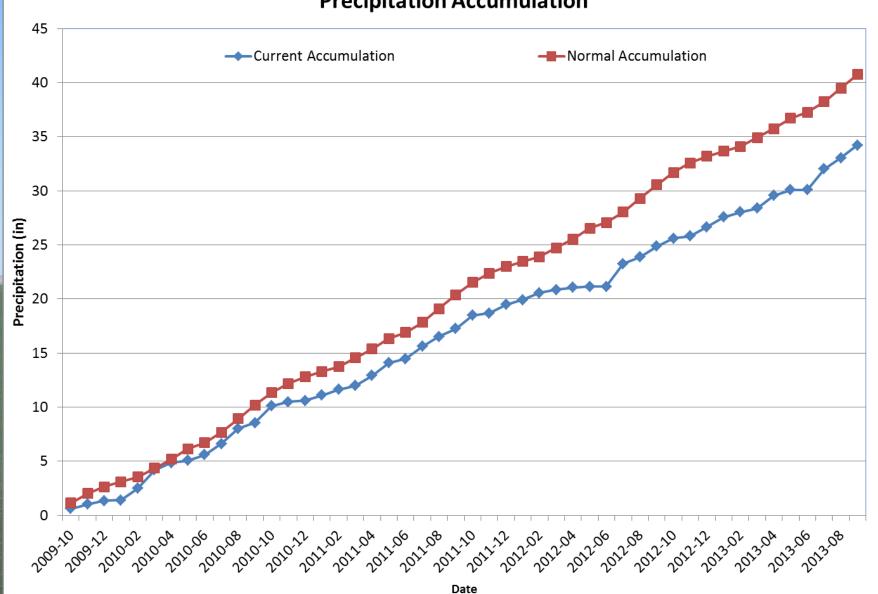
Division 3 – Montrose

Montrose #2 2013 Water Year



Division 3 – Montrose

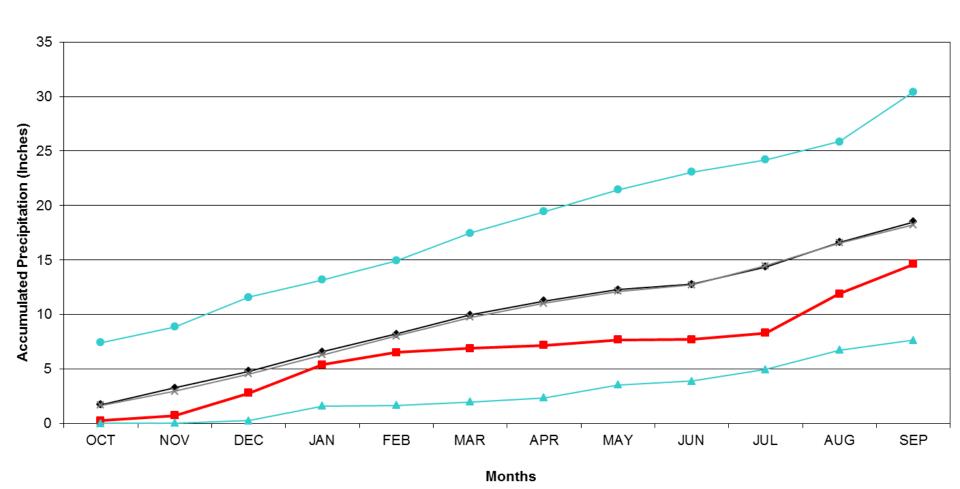




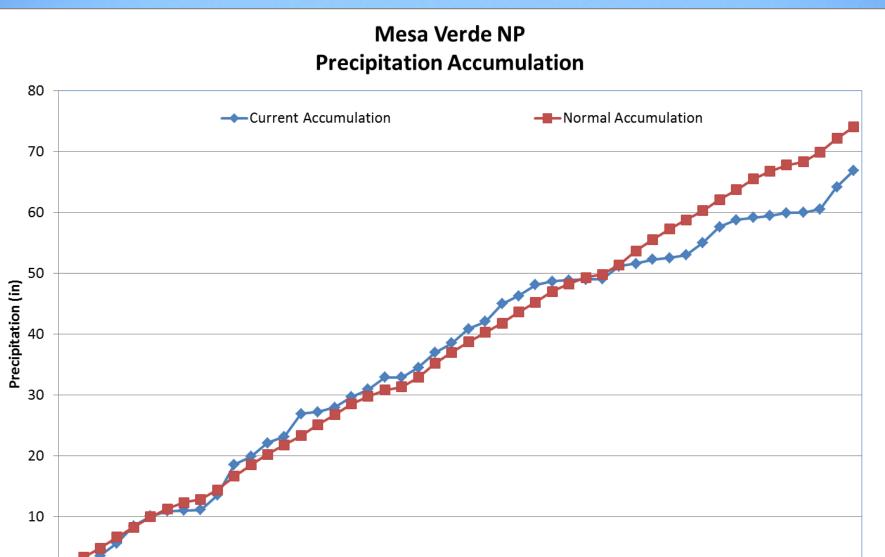
Division 3 – Mesa Verde NP

Mesa Verde NP 2013 Water Year



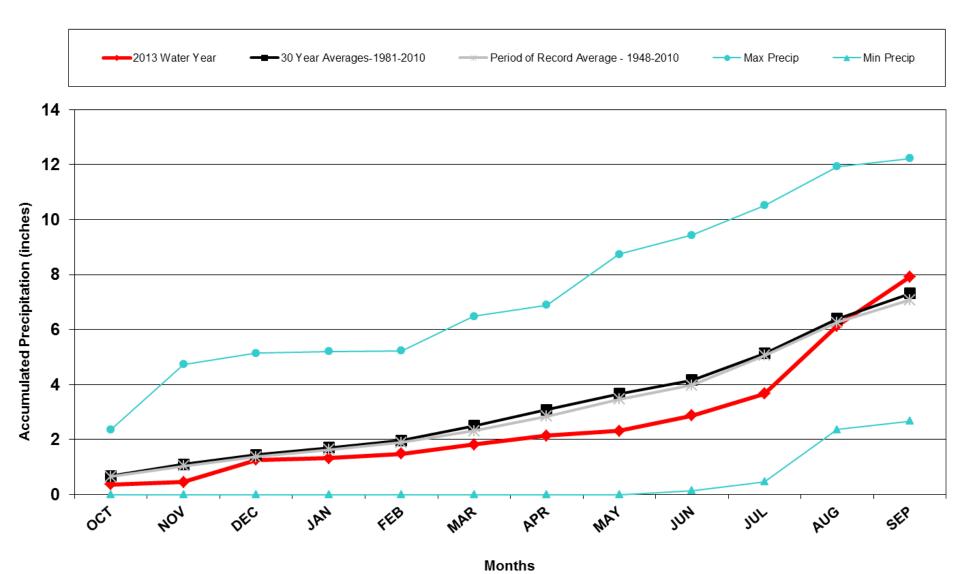


Division 3 – Mesa Verde NP



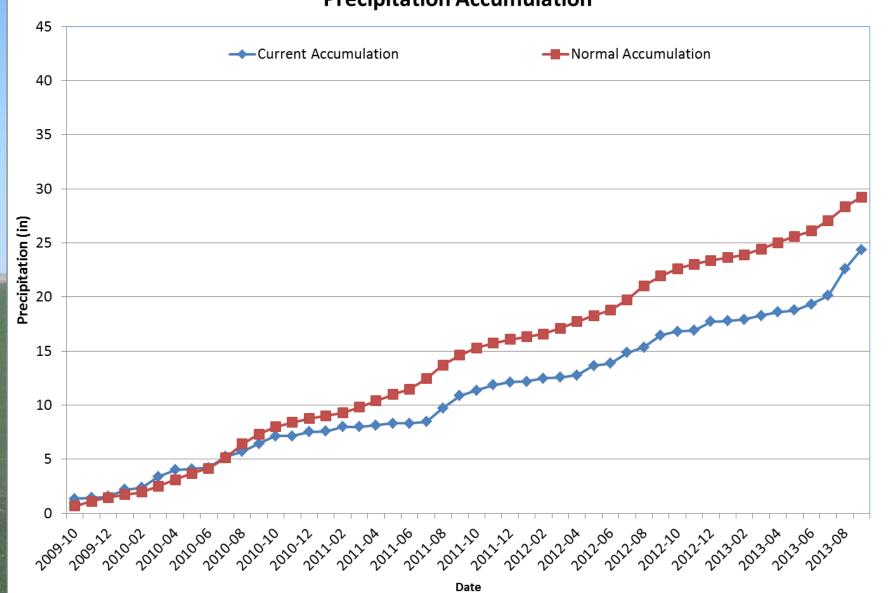
Division 4 – Alamosa

Alamosa WSO 2013 Water Year



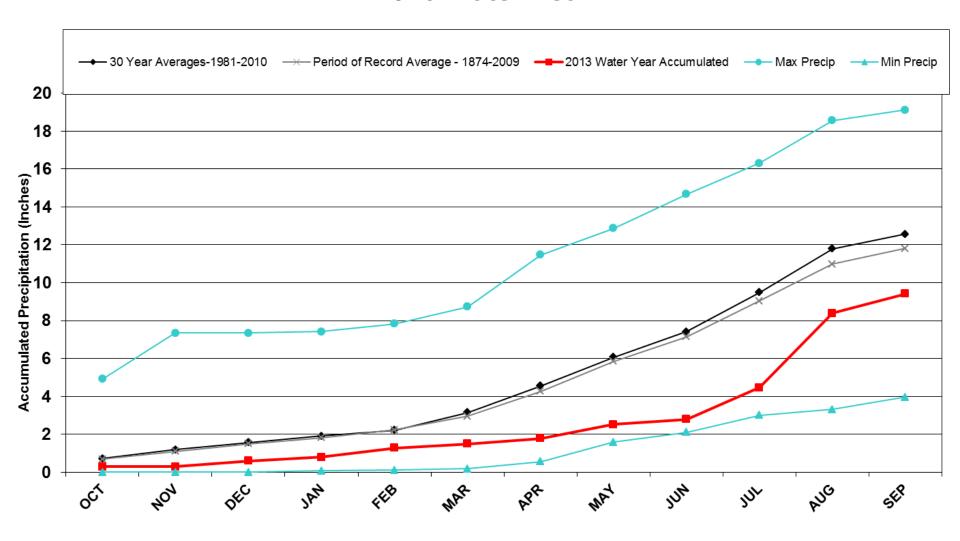
Division 4 – Alamosa





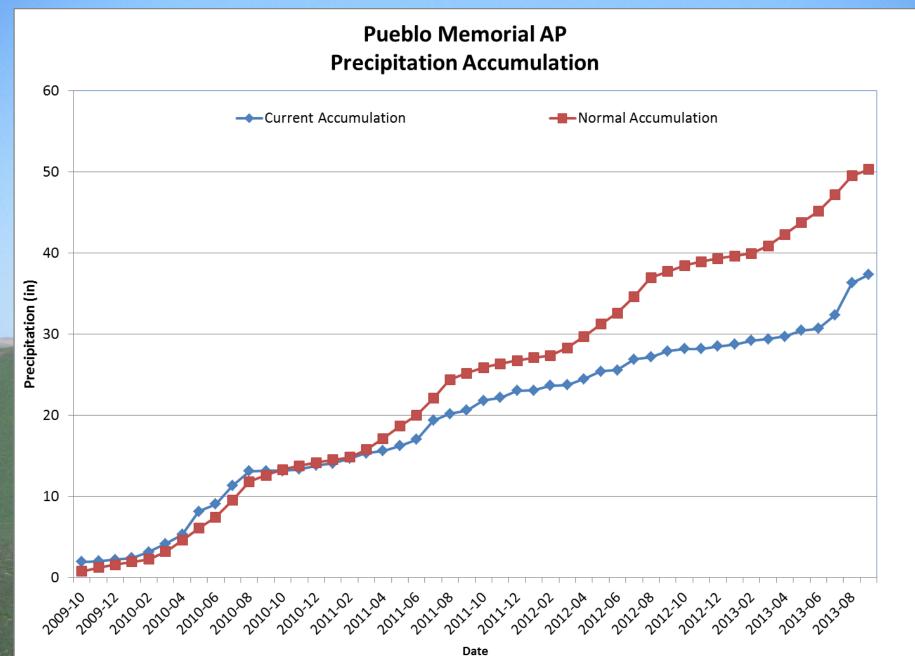
Division 5 – Pueblo

Pueblo WSO 2013 Water Year



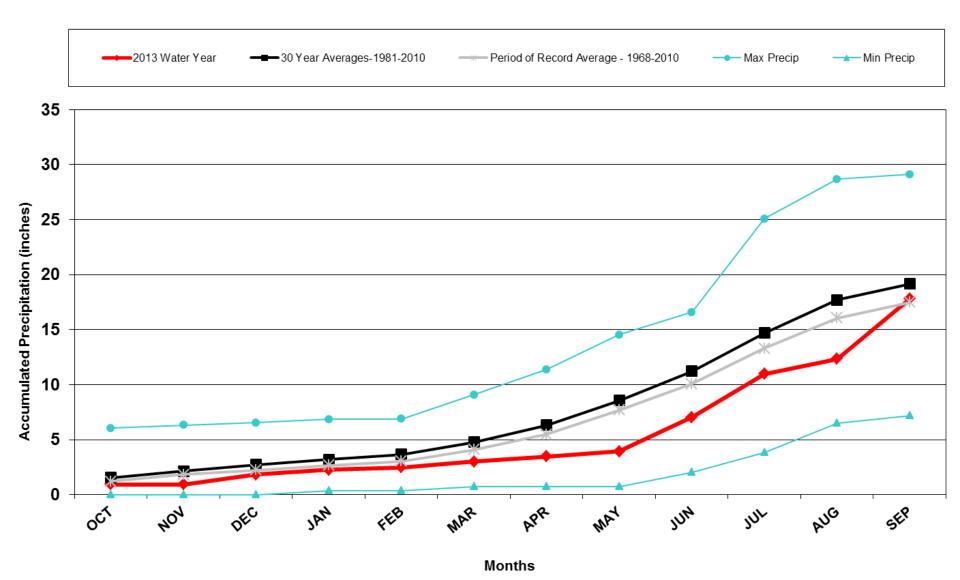
Months

Division 5 – Pueblo



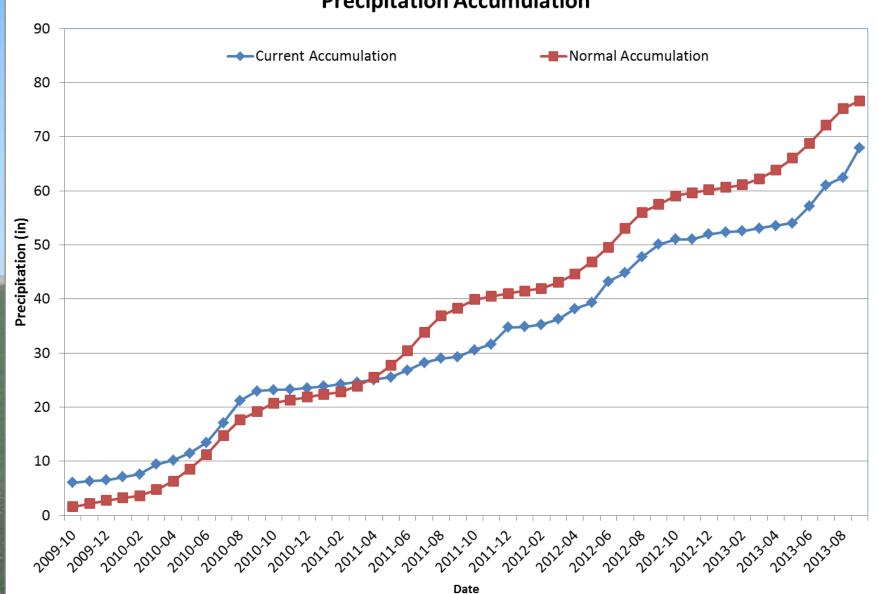
Division 6 - Walsh

Walsh 2013 Water Year



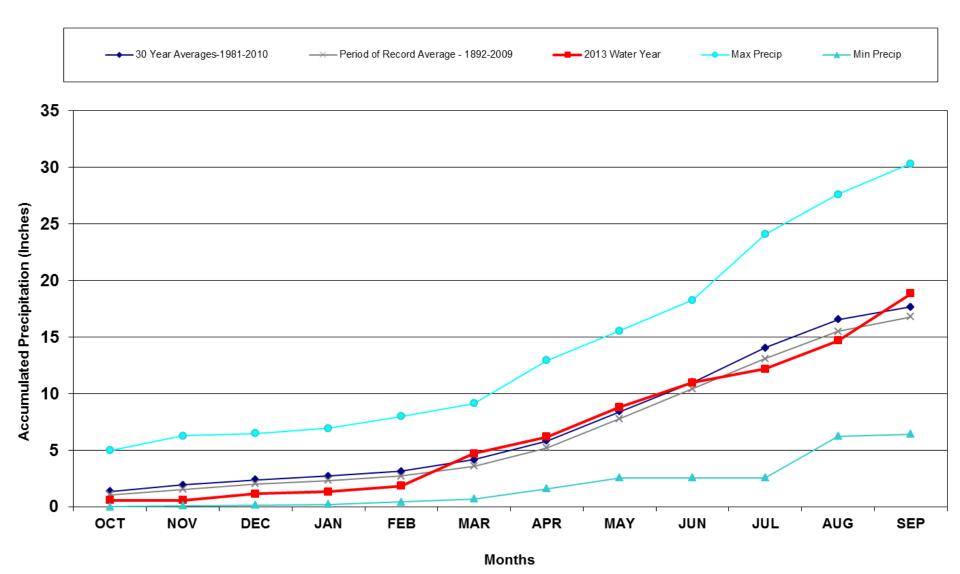
Division 6 - Walsh





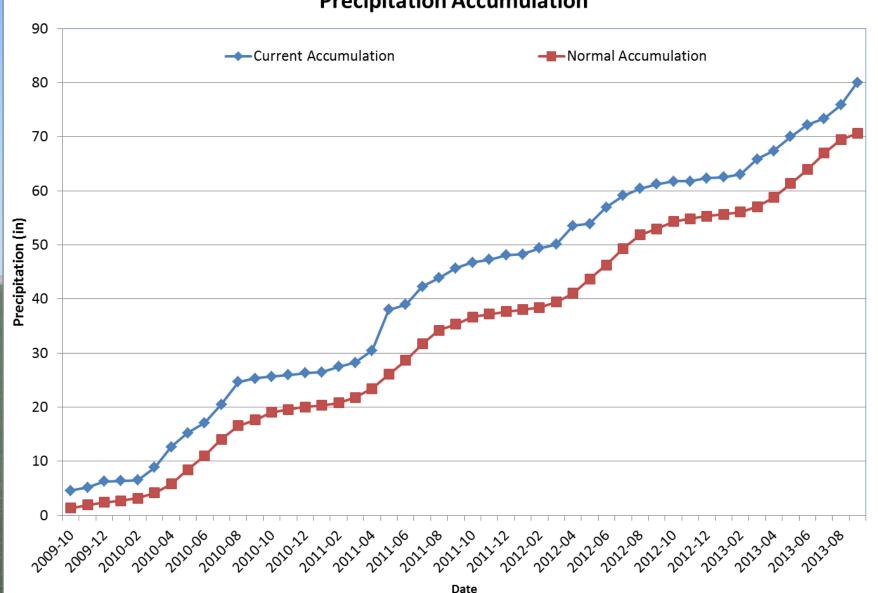
Division 6 - Burlington

Burlington 2013 Water Year



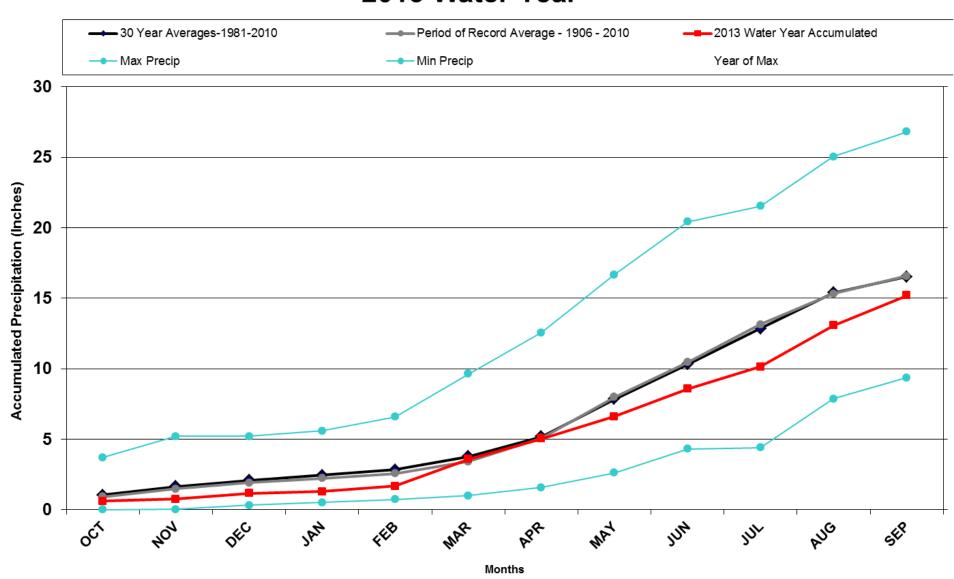
Division 6 - Burlington





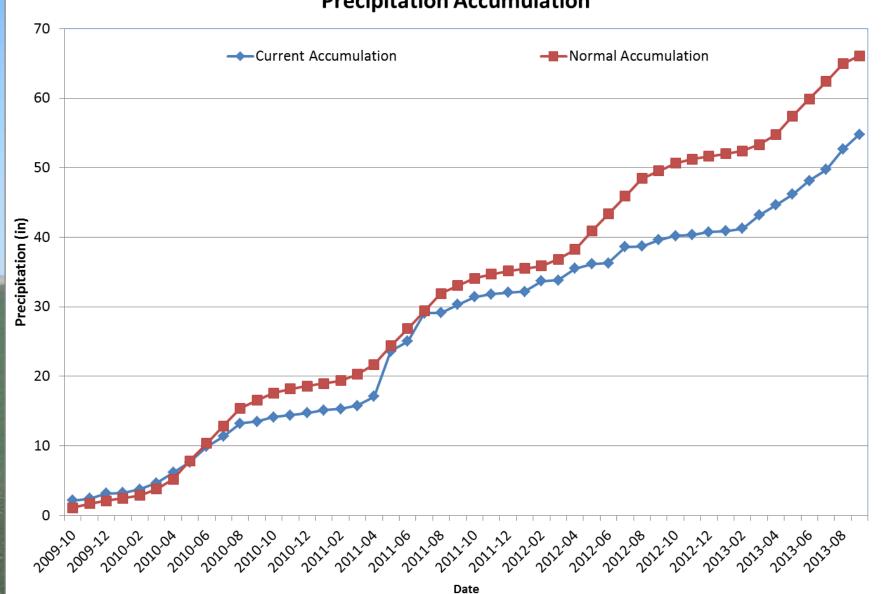
Division 7 – Akron

Akron 4E 2013 Water Year



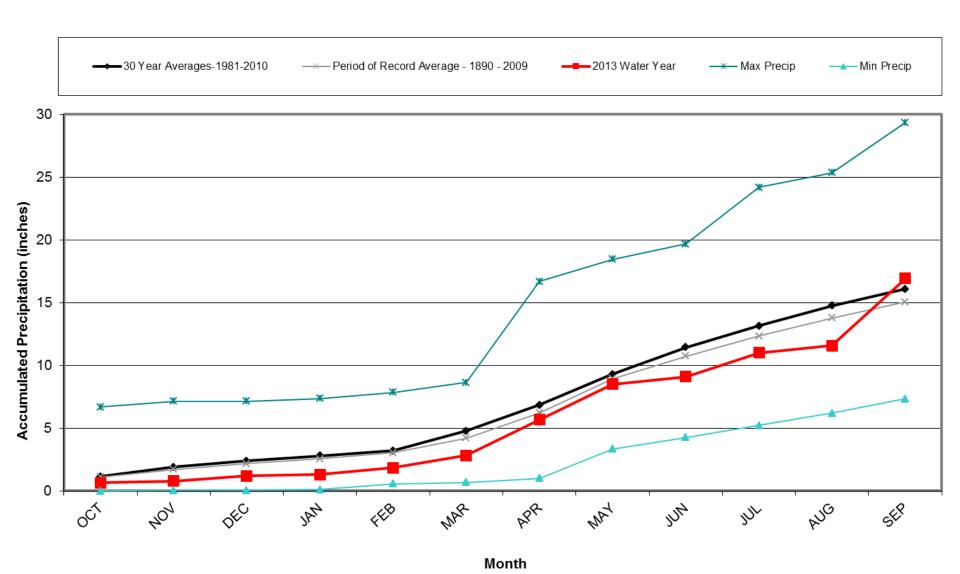
Division 7 – Akron





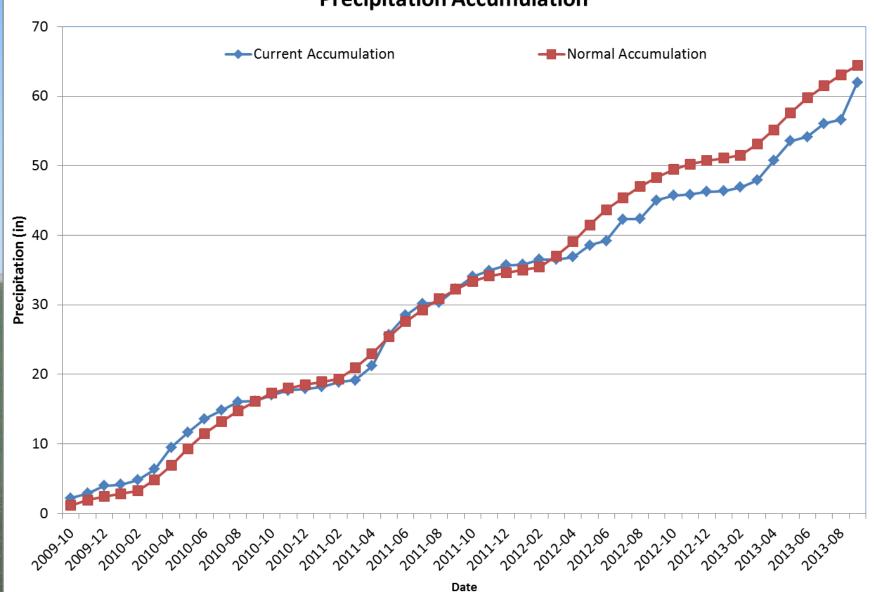
Division 8 – Fort Collins

Fort Collins 2013 Water Year



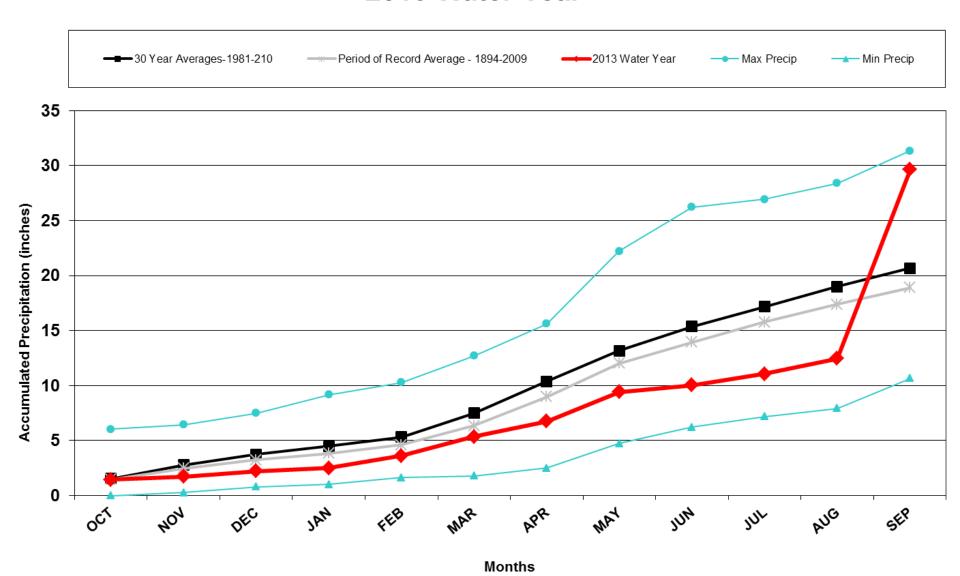
Division 8 – Fort Collins



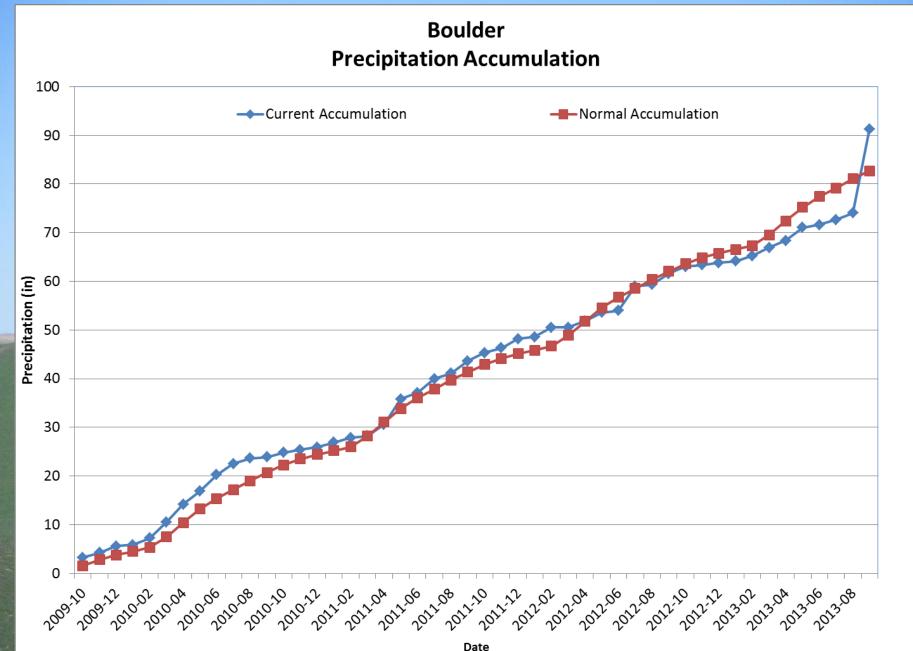


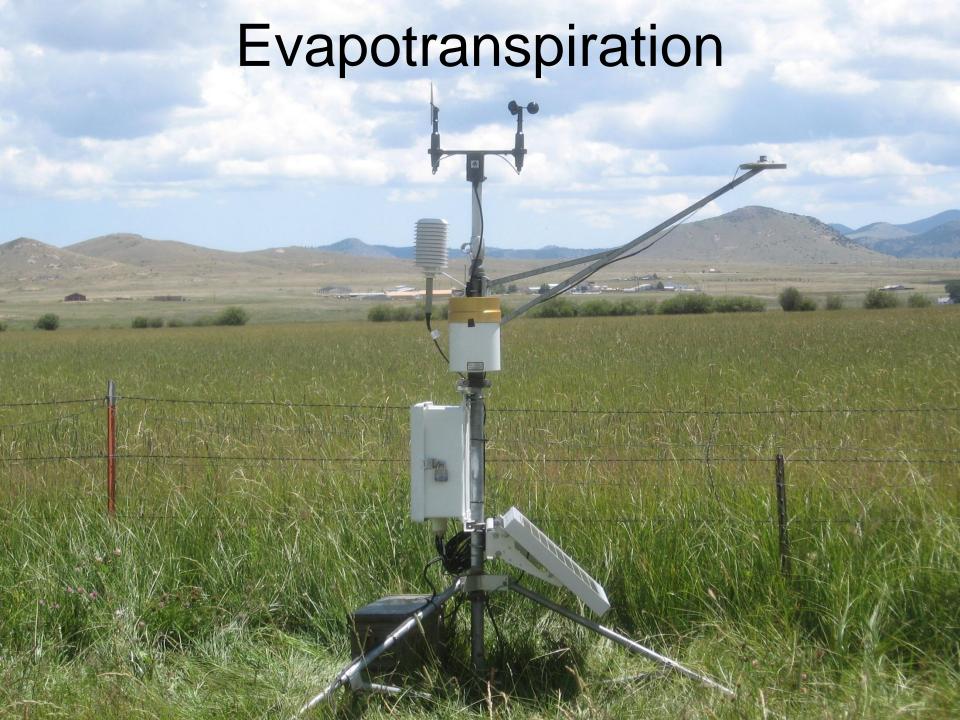
Division 8 - Boulder

Boulder 2013 Water Year



Division 8 - Boulder

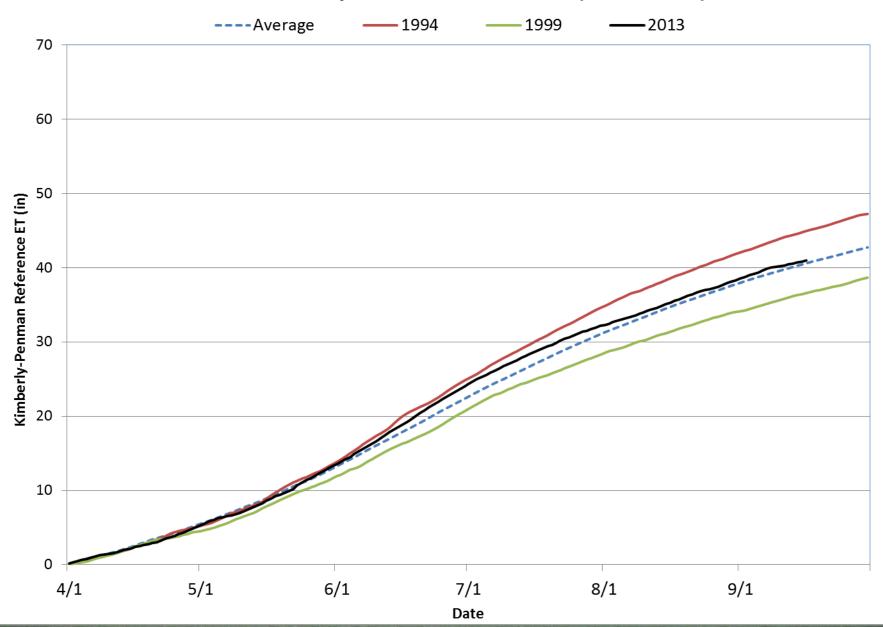




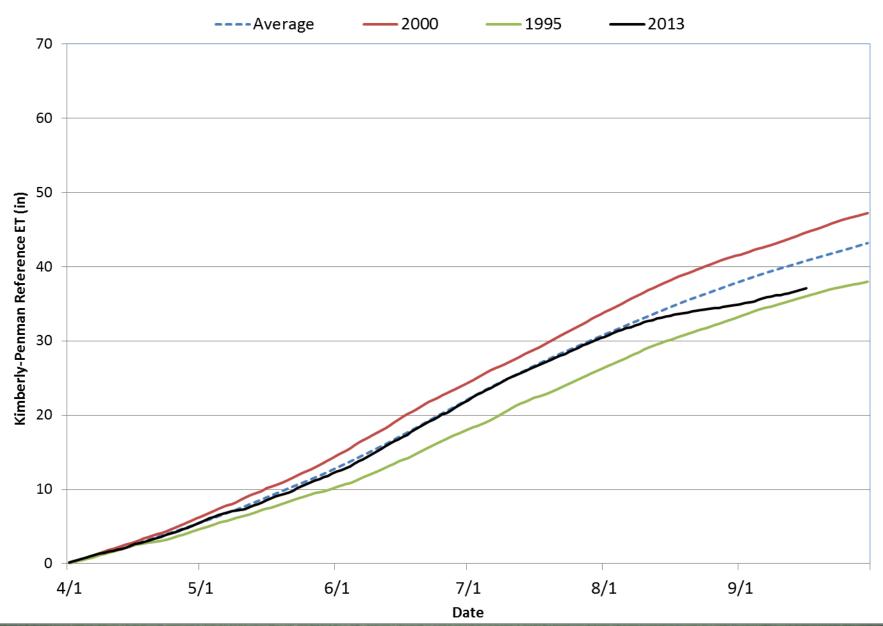
CoAgMet Reference Evapotranspiration Stations



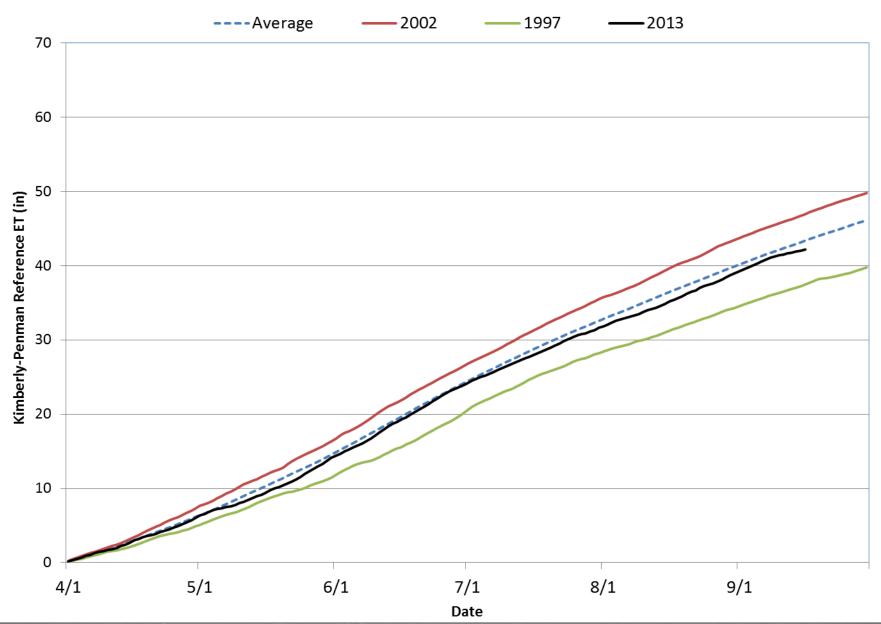
Olathe Kimberly-Penman Reference ET (1993 - 2013)



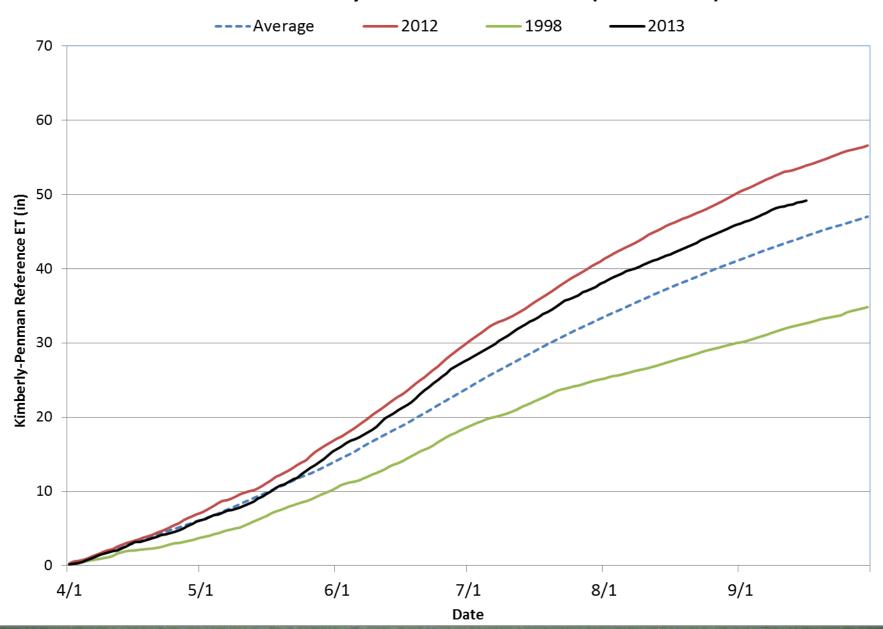




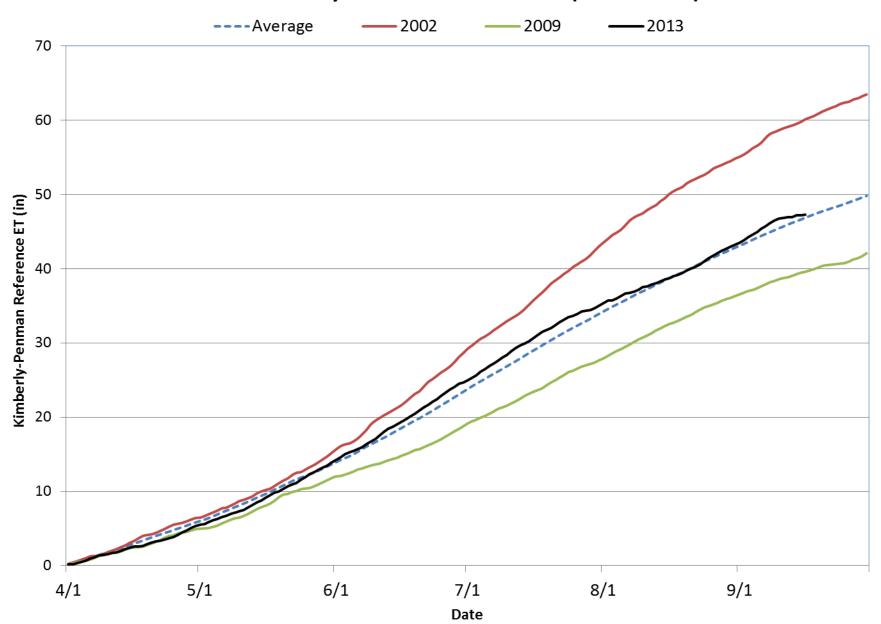




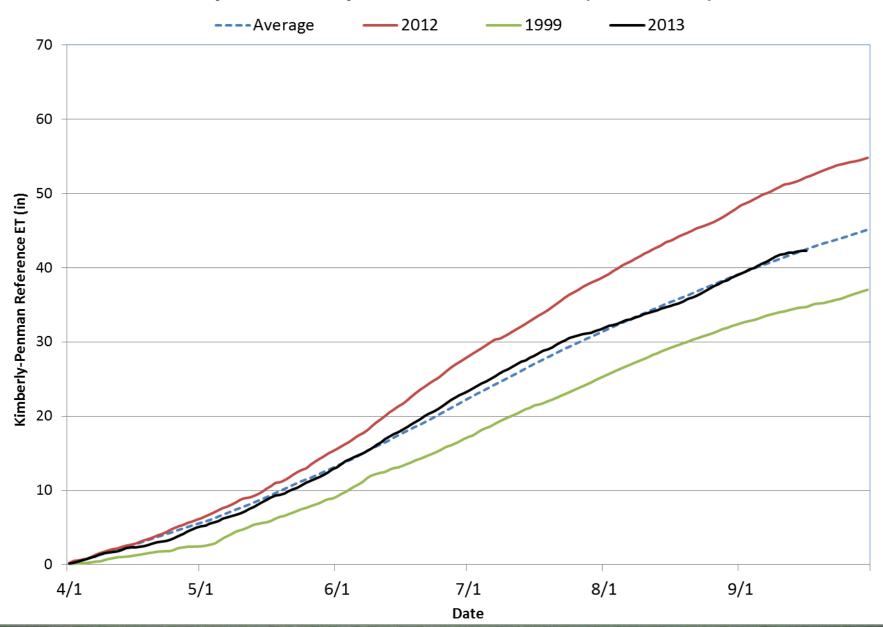
Avondale Kimberly-Penman Reference ET (1993 - 2013)



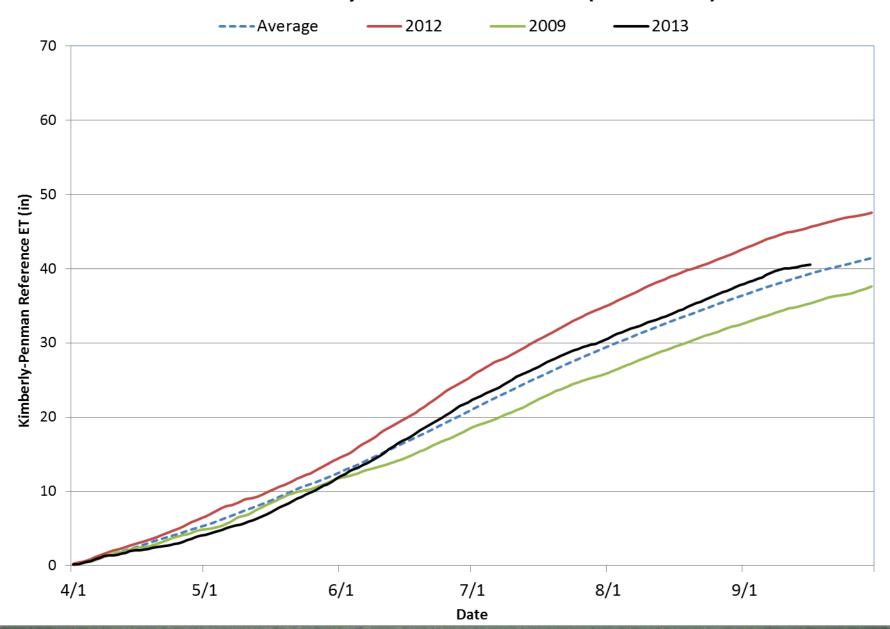




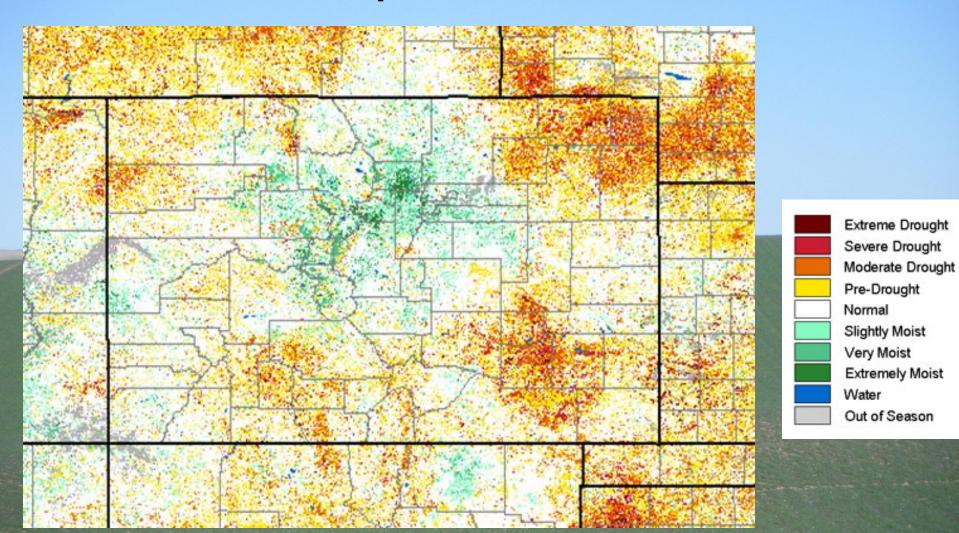
Holyoke Kimberly-Penman Reference ET (1992 - 2013)



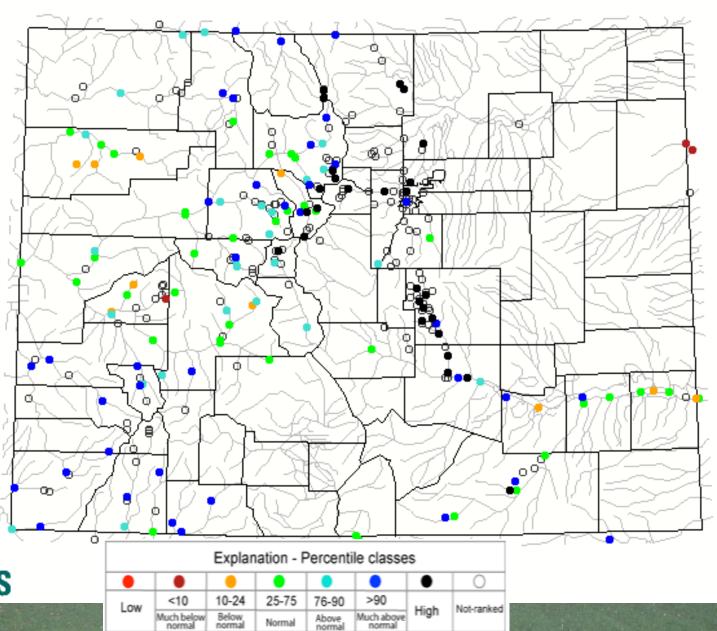
Lucerne Kimberly-Penman Reference ET (1992 - 2013)



VegDRI 15 September 2013



Monday, September 16, 2013

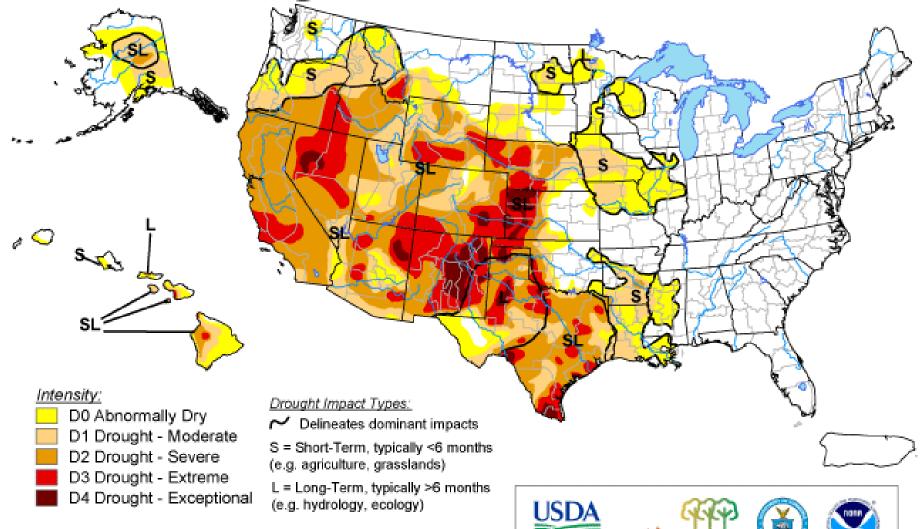


Normal



U.S. Drought Monitor

August 13, 2013

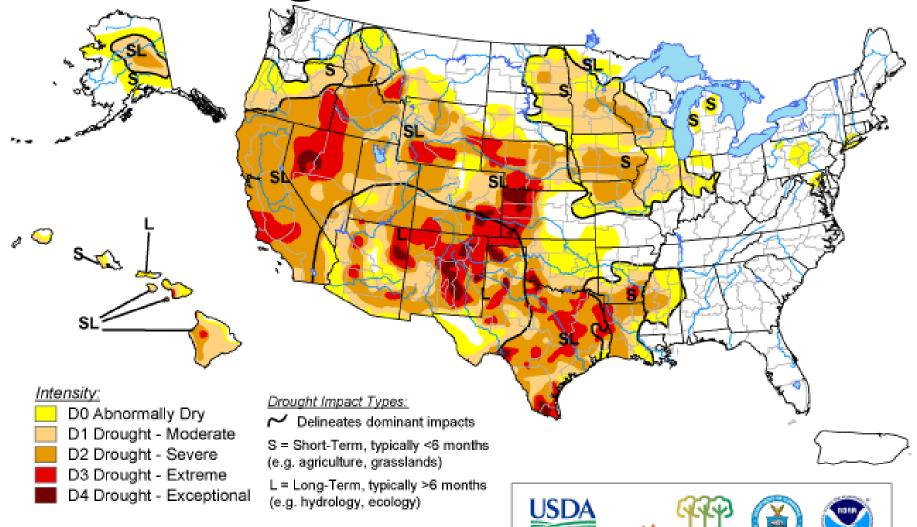


The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Released Thursday, August 15, 2013 Author: Michael Brewer/L. Love-Brotak, NOAA/NESDIS/NCDC U.S. Drought Monitor

September 10, 2013

Valid 7 a.m. EDT



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

http://droughtmonitor.unl.edu/

Released Thursday, September 12, 2013 Author: Anthony Artusa, NOAA/NWS/NCEP/CPC

U.S. Drought Monitor September 17, 2013 DRAFT#4 DRAFT#4 S L Drought Impact Types: Intensity: Delineates dominant impacts D0 Abnormally Dry D1 Drought - Moderate DRAFT#4 S = Short-Term, typically <6 months (e.g. agriculture, grasslands) D2 Drought - Severe D3 Drought - Extreme

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

L = Long-Term, typically >6 months

(e.g. hydrology, ecology)

http://droughtmonitor.unl.edu/

D4 Drought - Exceptional

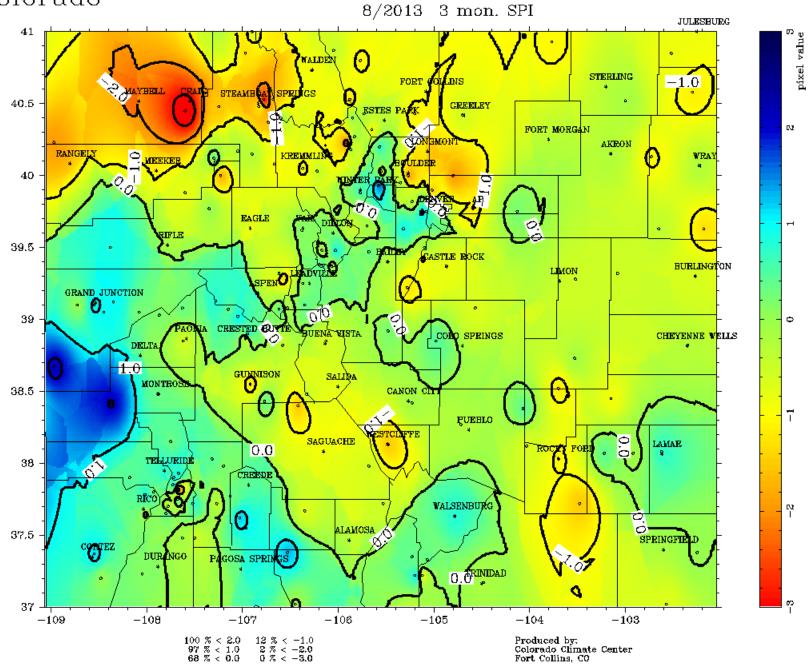




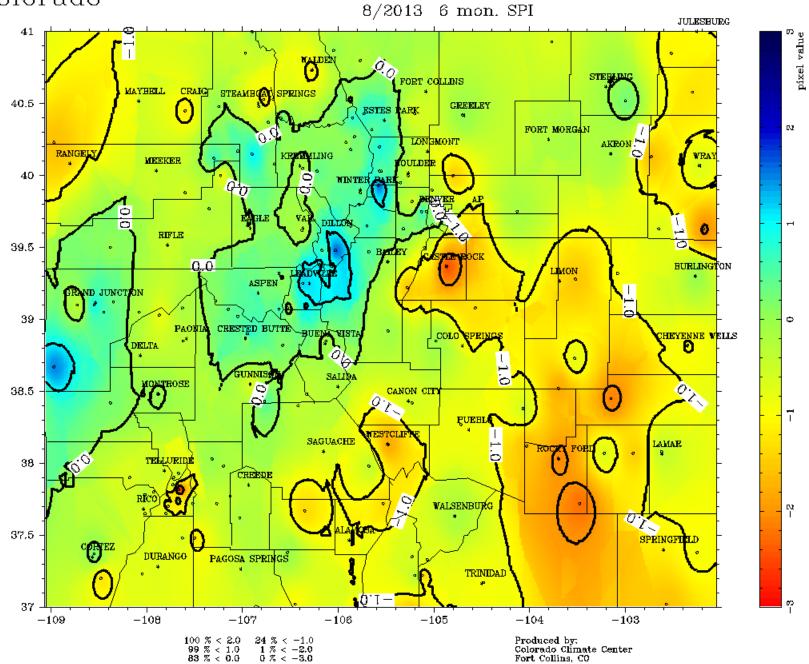


Released Thursday, September 19, 2013
Author: David Miskus, NOAA/NWS/NCEP/CPC

Colorado

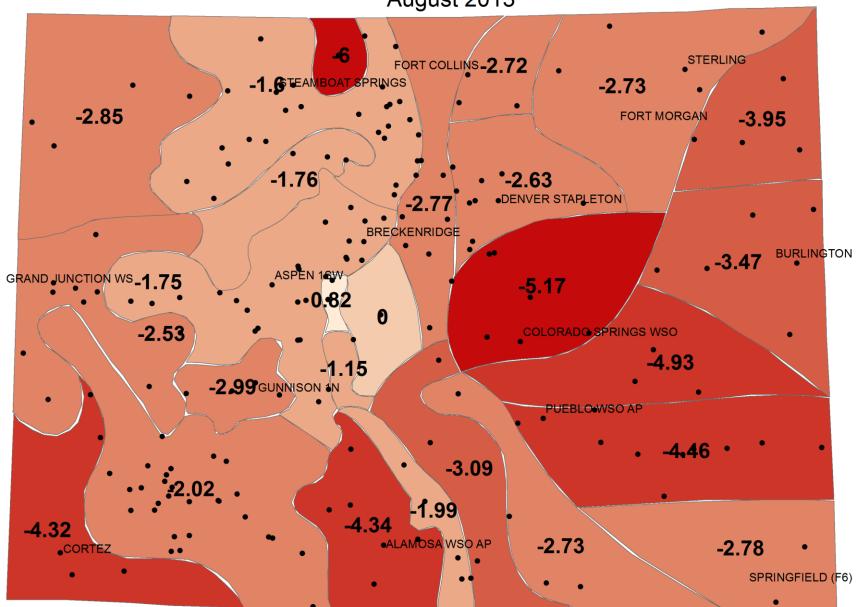


Colorado



Colorado 8/2013 12 mon. SPI JULESBURG 9 píxel value 41 STERLING FORT COLLINS CRAIG MAYBELL 40.5 D.E FORT MORGAN LONGMONT AKRON RANGELY REMMLING WRAY MEEKER Ö 40 EAGLE RIFLE 39.5 · BAILEY ASPEN CEADVILLE LIMON GRAND JUNCTION Ð 39 ٥ PAONIA CRESTED BUTTE COLOSPRINGS TENENNE VELLS DELTA 0 MONTROSE 38.5 CANON CITY SAGUACHE 38 CREEDE 37.5 SPR NGFIELD CORTEZ DURANGO PAGOSA SPRINGS TRINIDAD 37 -107-105-104-103-109-108-106100 % < 2.0 100 % < 1.0 95 % < 0.0 Produced by: Colorado Climate Center Fort Collins, CO

Modified Palmer Drought Severity Index for Colorado August 2013



Colorado Climate Center

Data and Power Point Presentations available for downloading

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



