



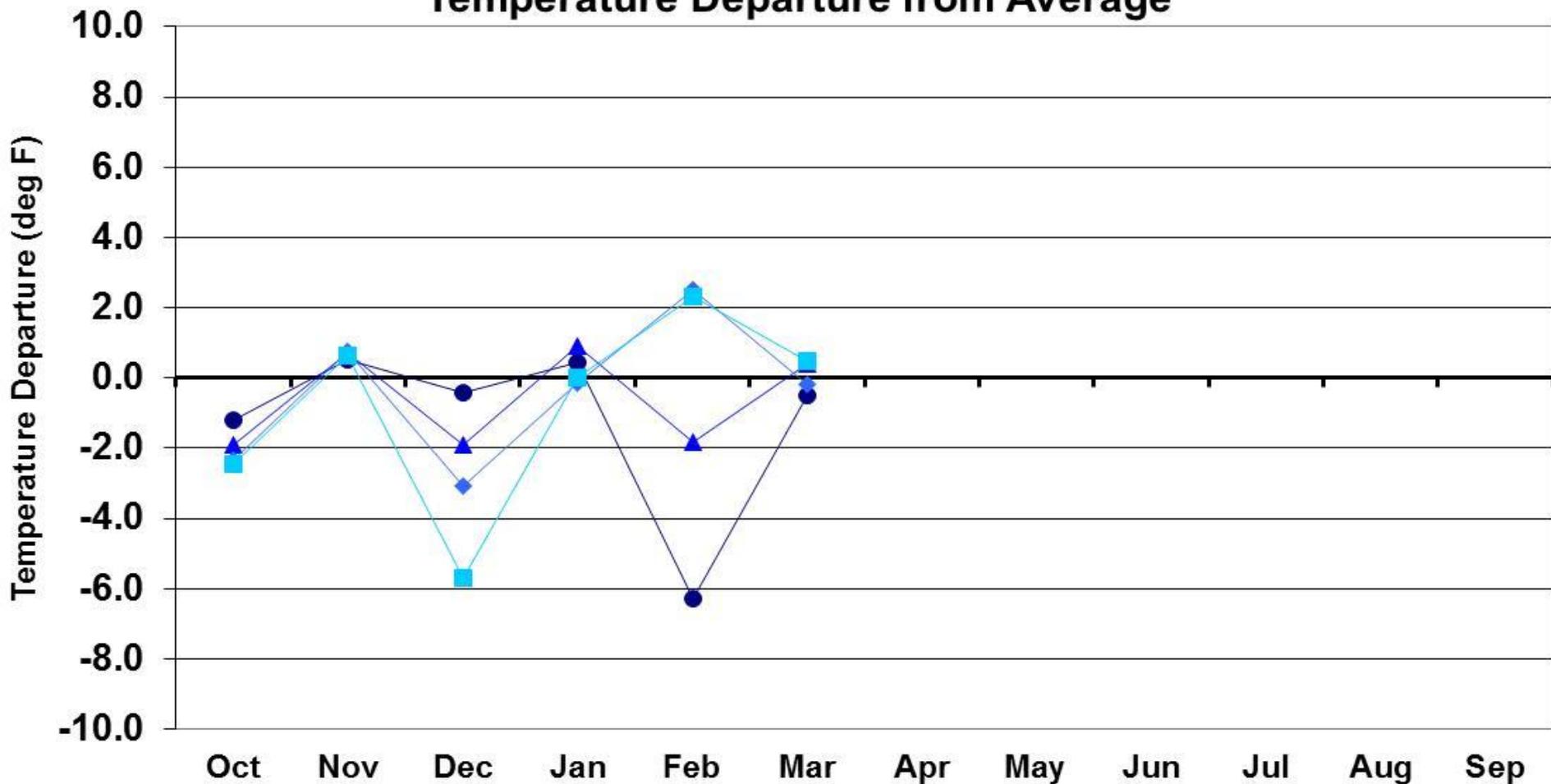
Climate Update

Wendy Ryan
Assistant State Climatologist
Colorado Climate Center

Presented to
Joint Meeting of the Colorado Water
Availability and Flood Task Forces
16 April 2014
Denver, CO

Water Year 2014 Temperature Departures

Water Year 2014
Temperature Departure from Average



● Eastern Plains

▲ Foothills

◆ Mountains

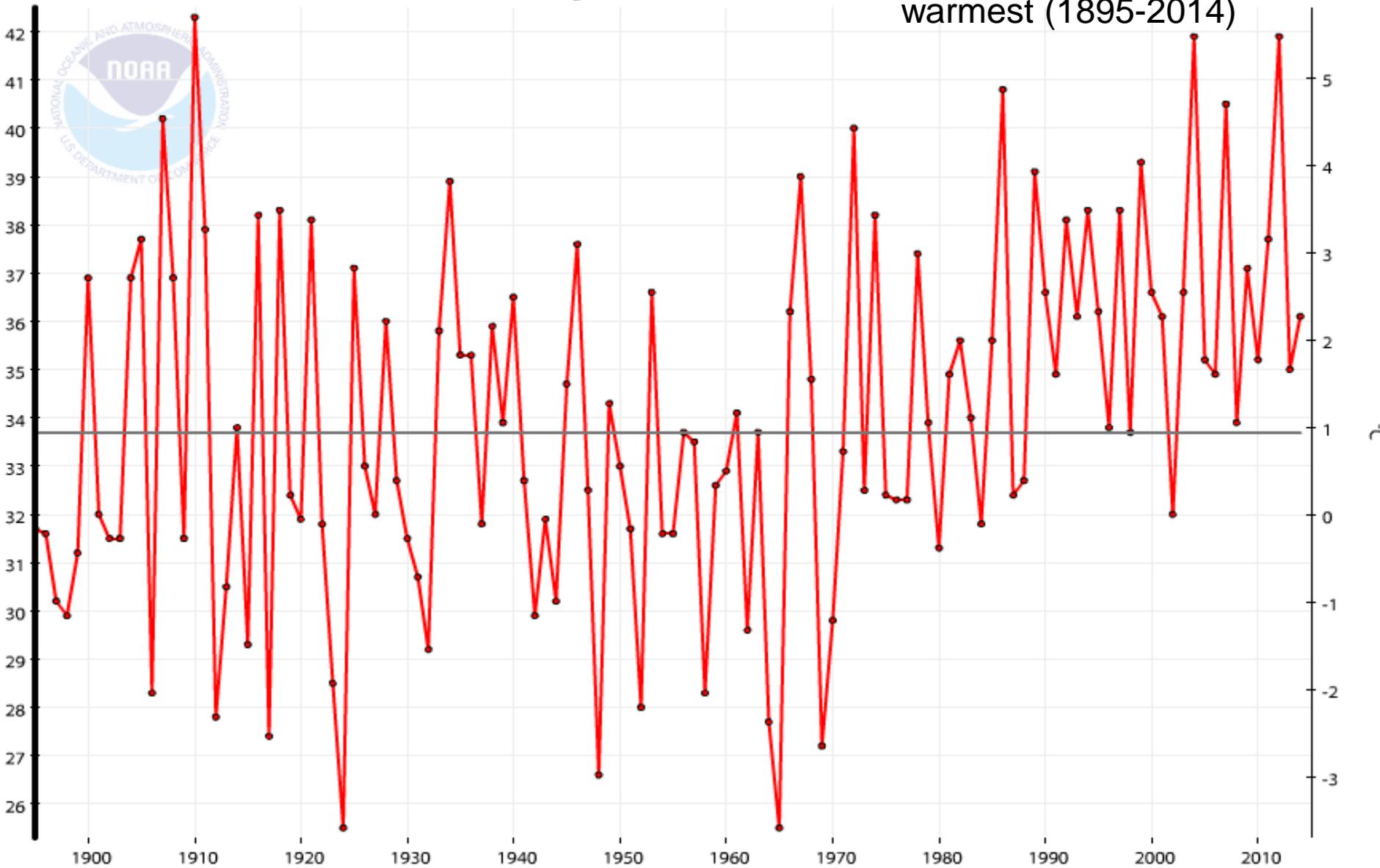
■ Western Valleys

March Average Temperature History for Colorado (NCDC)

Colorado, Temperature, March

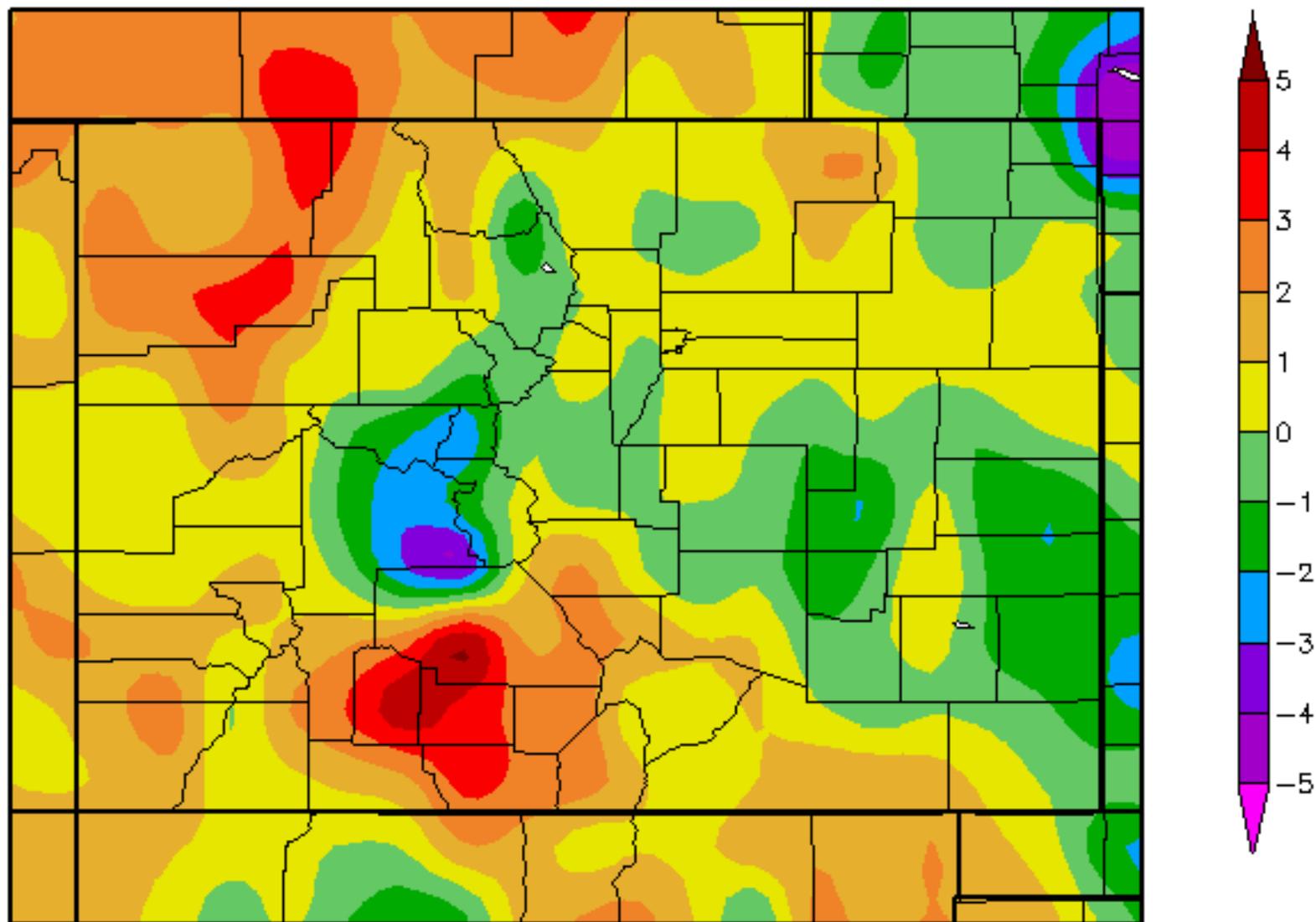
— 1901-2000 Avg: 33.7°F
—●— Temperature

36.1F ranks as the 23rd warmest (1895-2014)



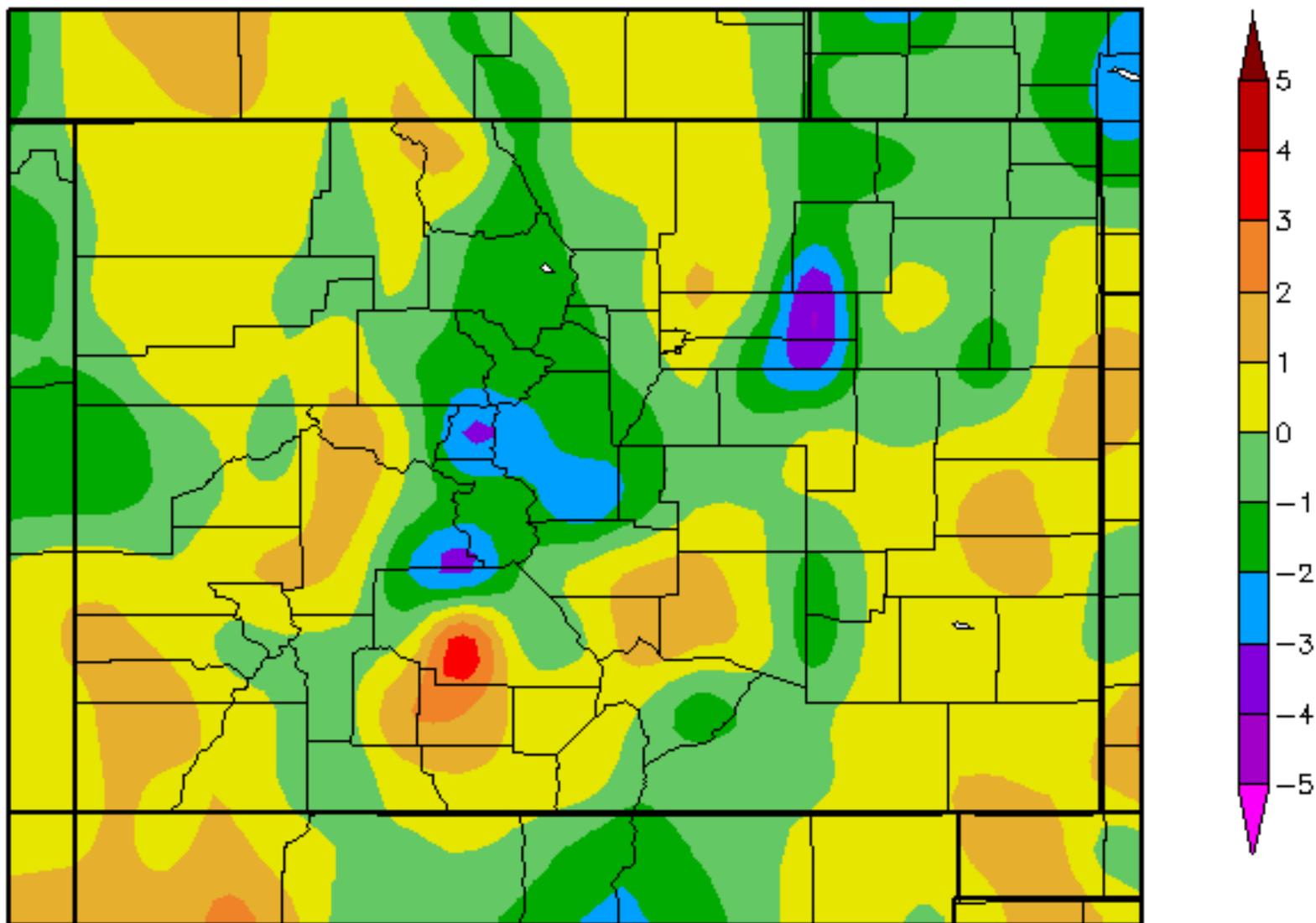
Departure from Normal Temperature (F)

3/1/2014 - 3/31/2014

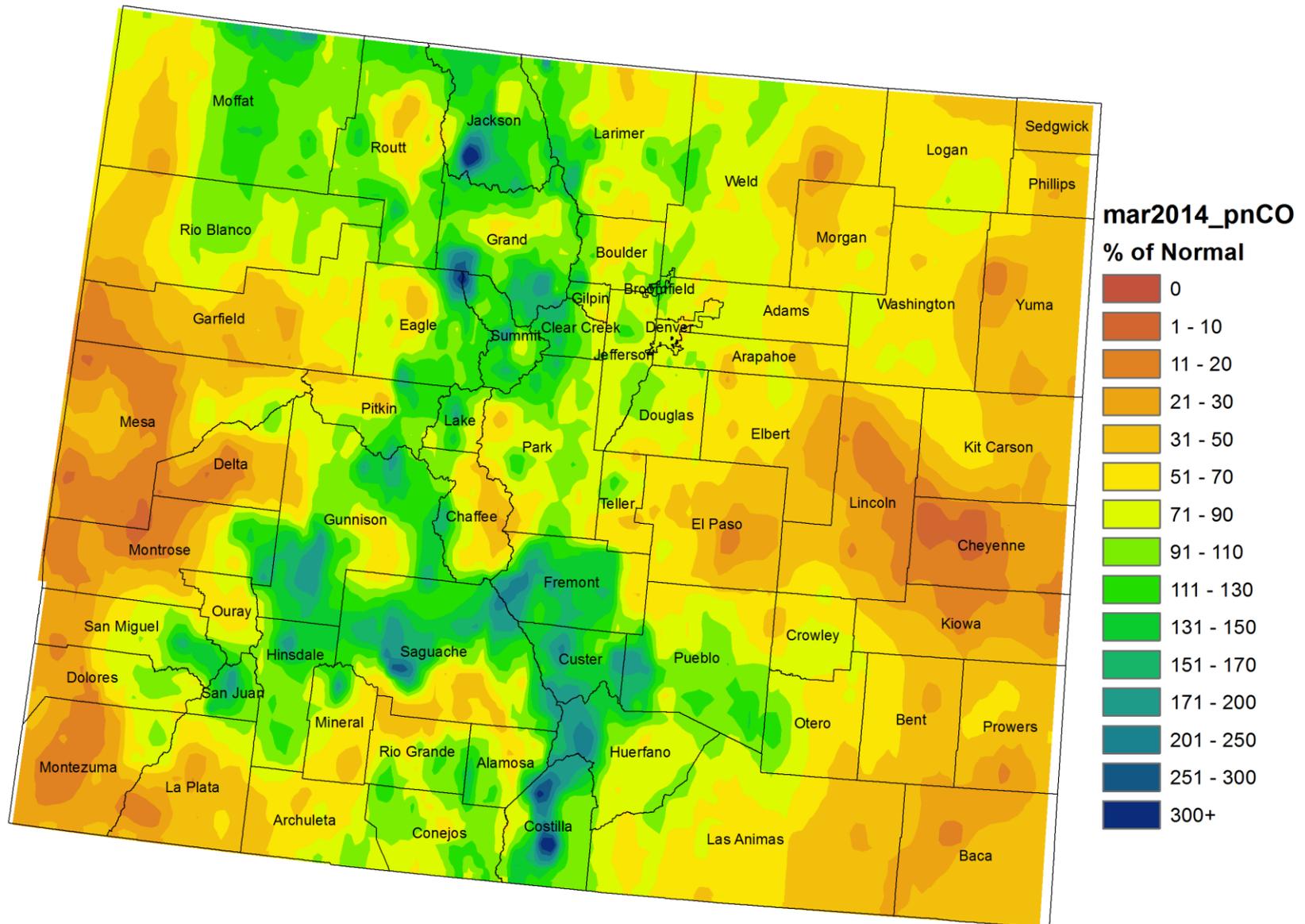


Departure from Normal Temperature (F)

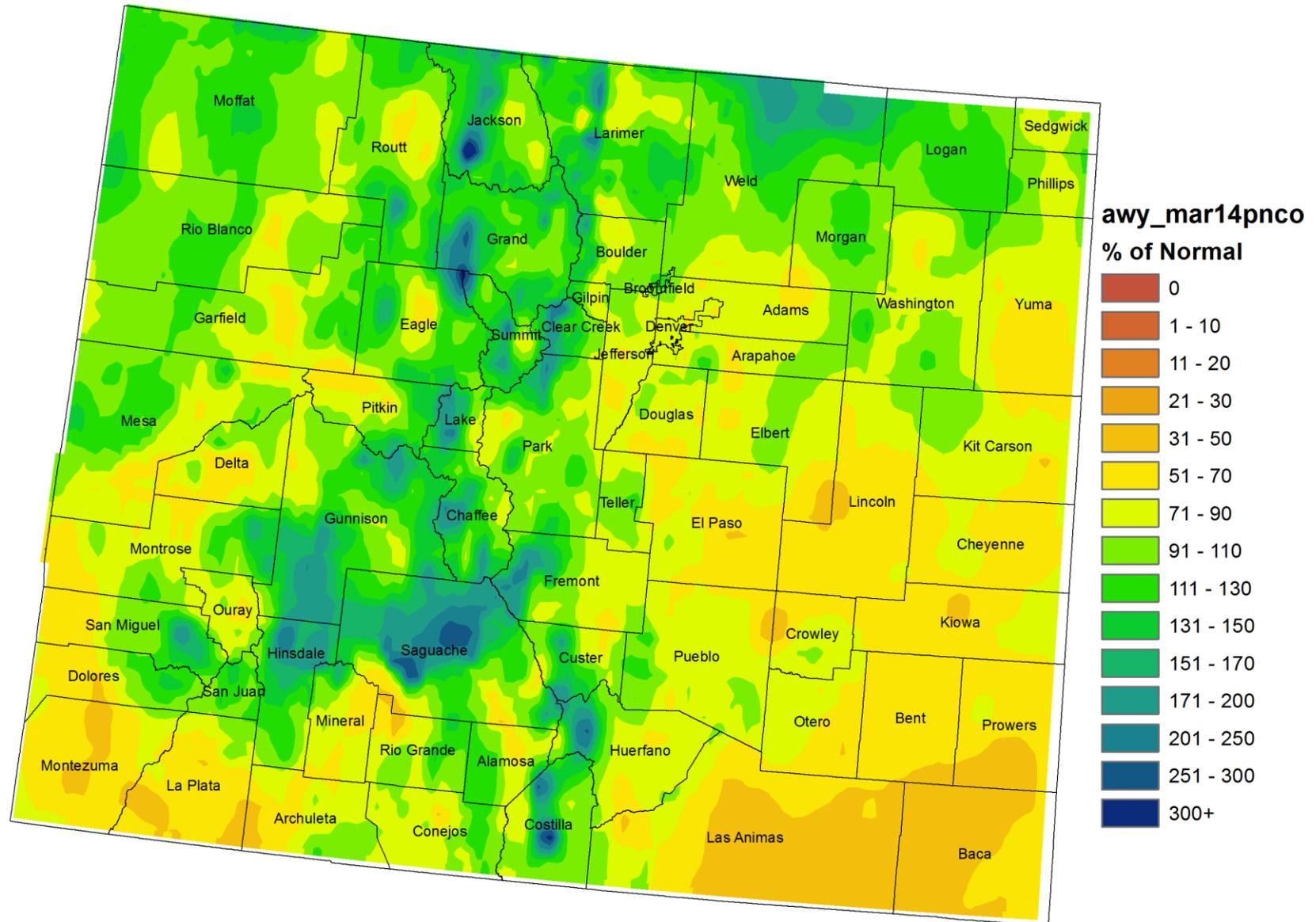
4/1/2014 - 4/14/2014



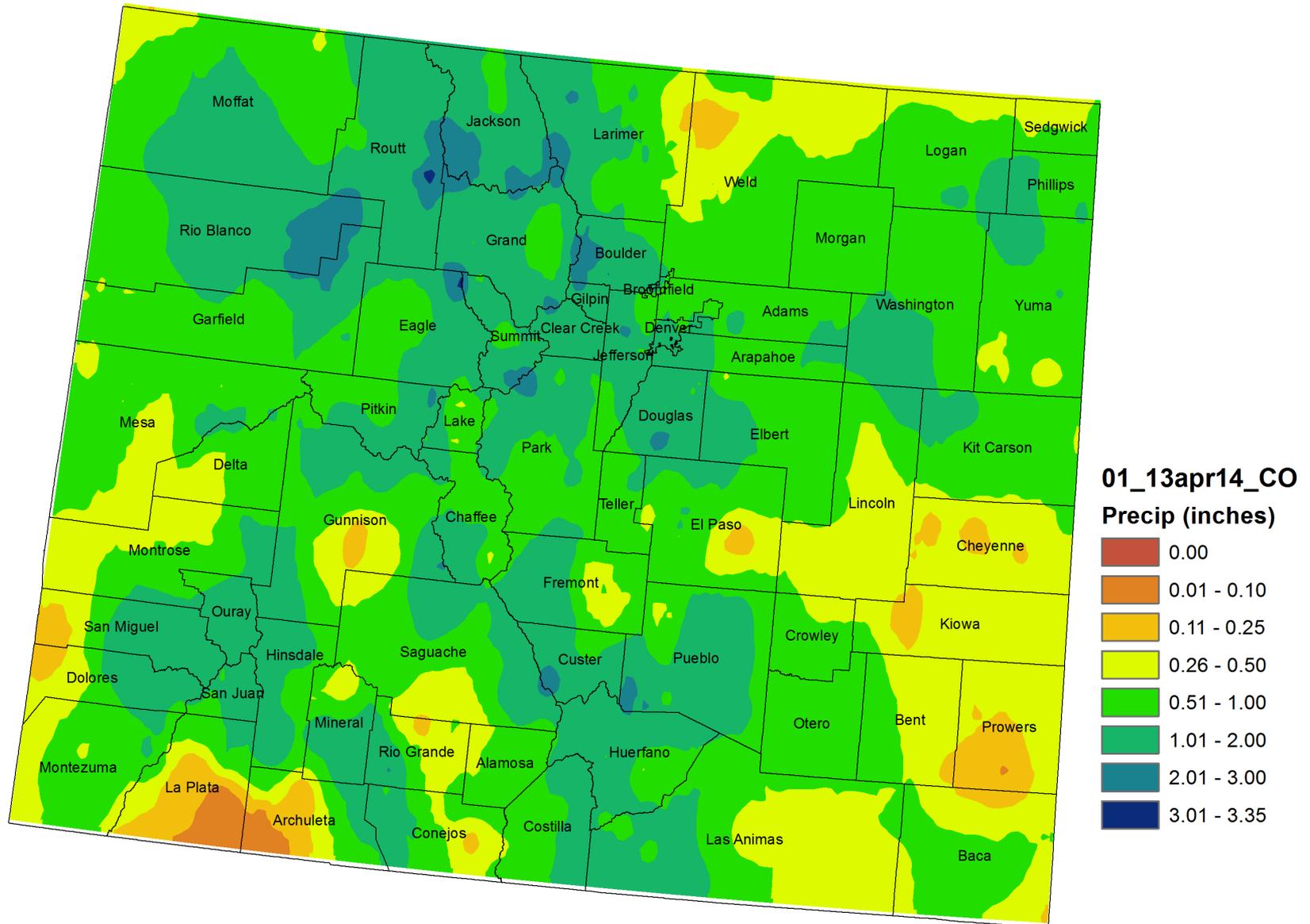
Colorado March 2014 Precipitation as a Percentage of Average



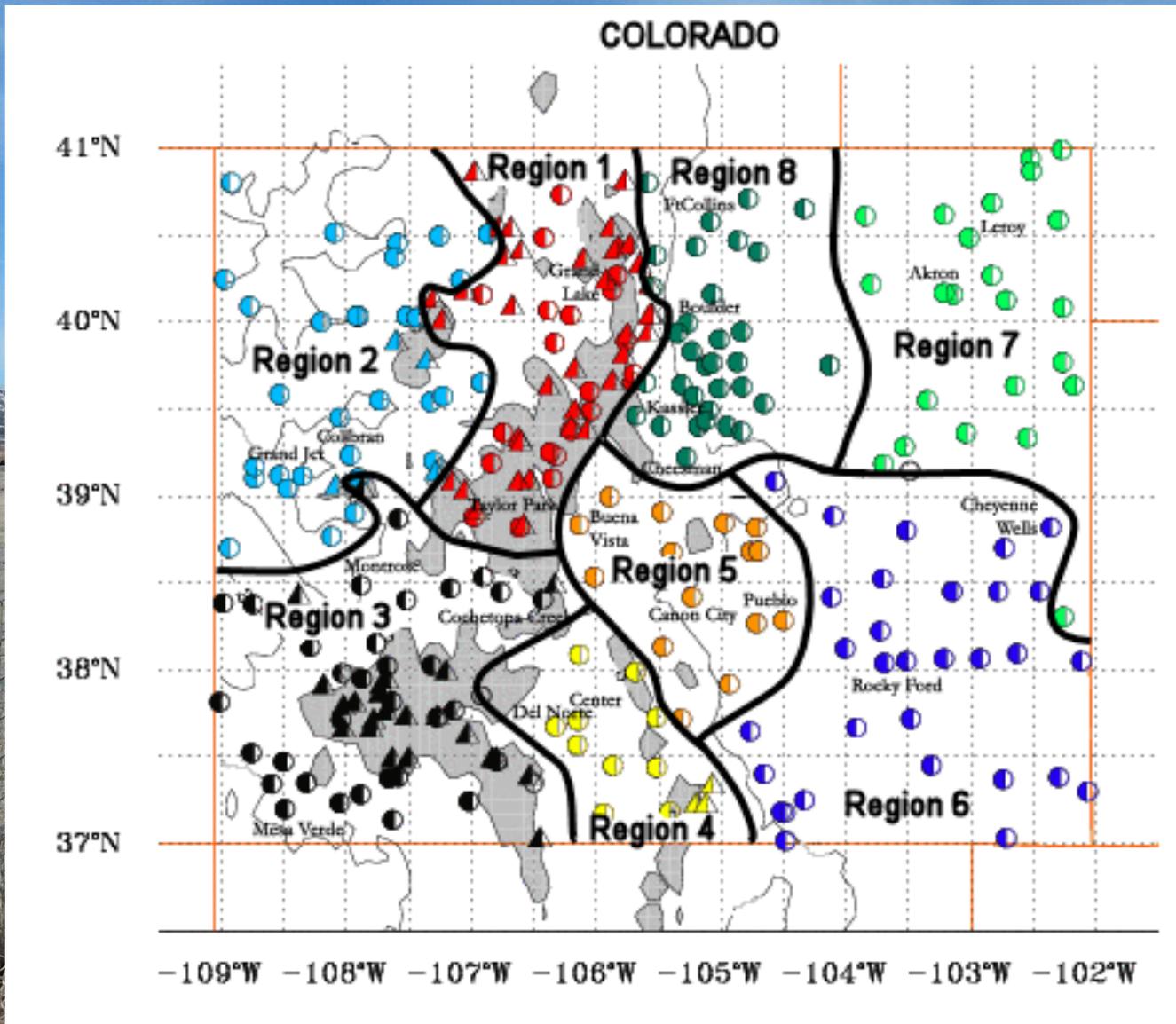
Colorado Water Year 2014 Precipitation October 2013 - March 2014



Colorado Month to Date Precipitation 1 - 13 April 2014

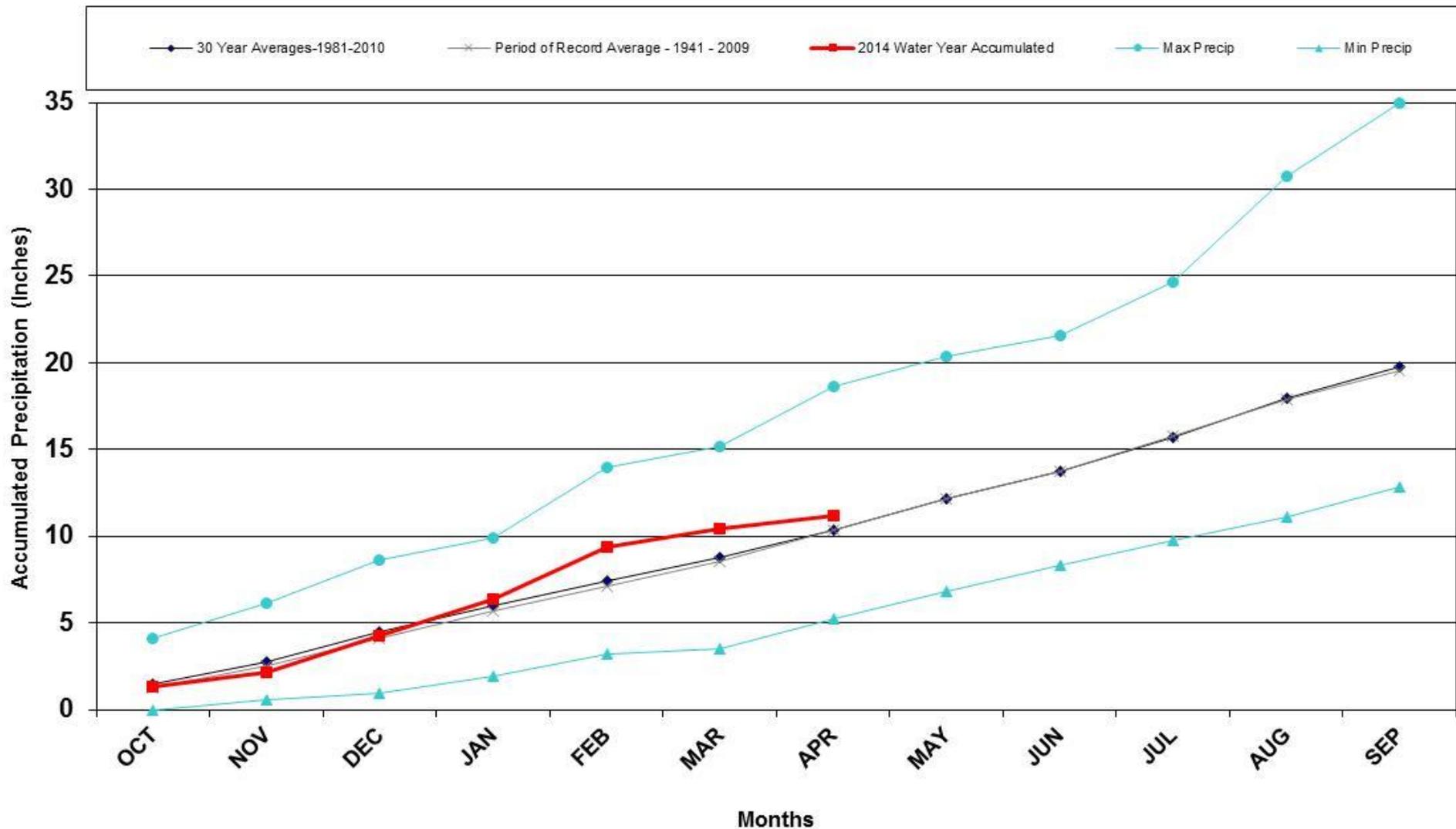


Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO



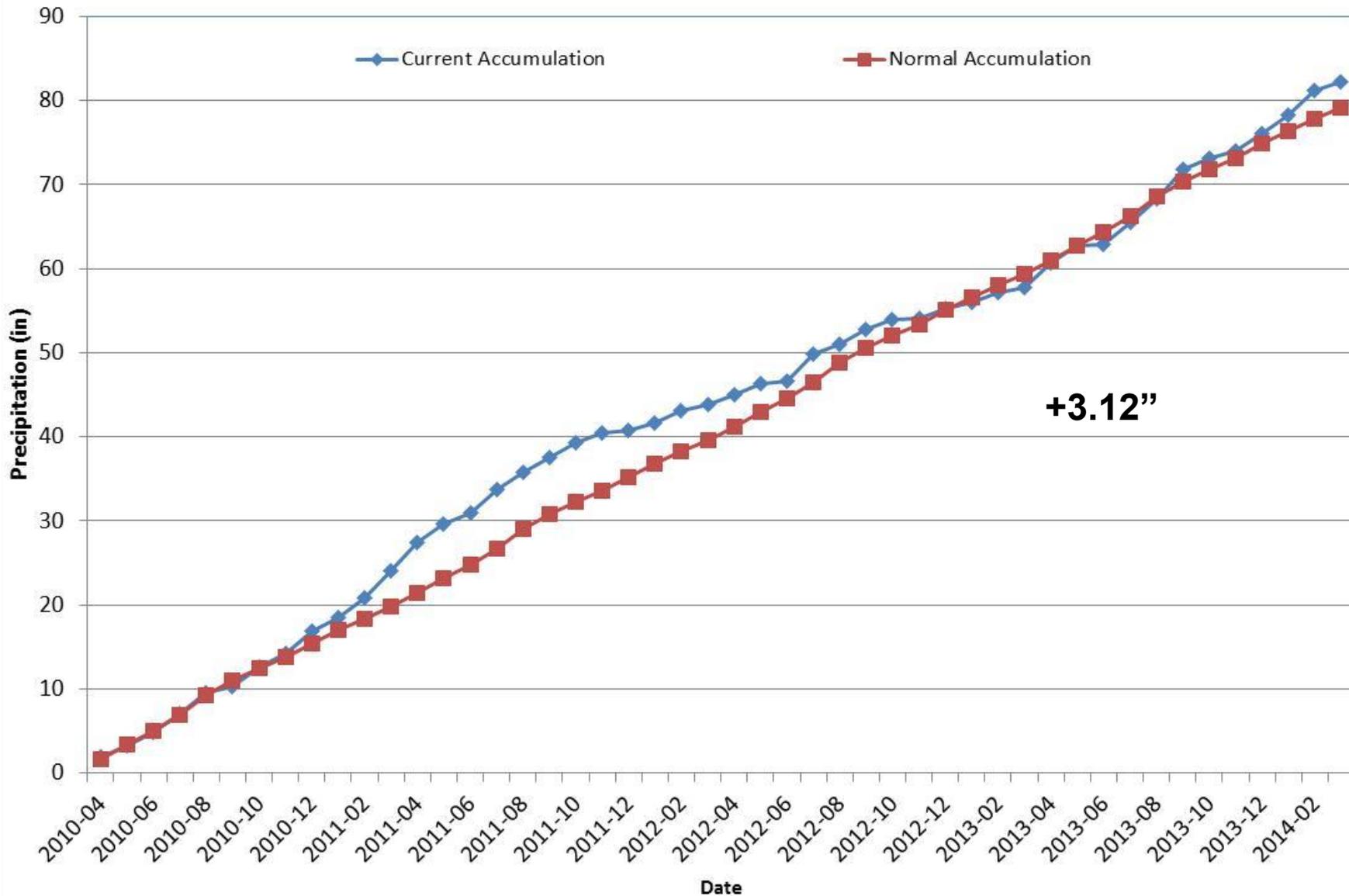
Division 1 – Grand Lake 1NW

Grand Lake 1 NW 2014 Water Year



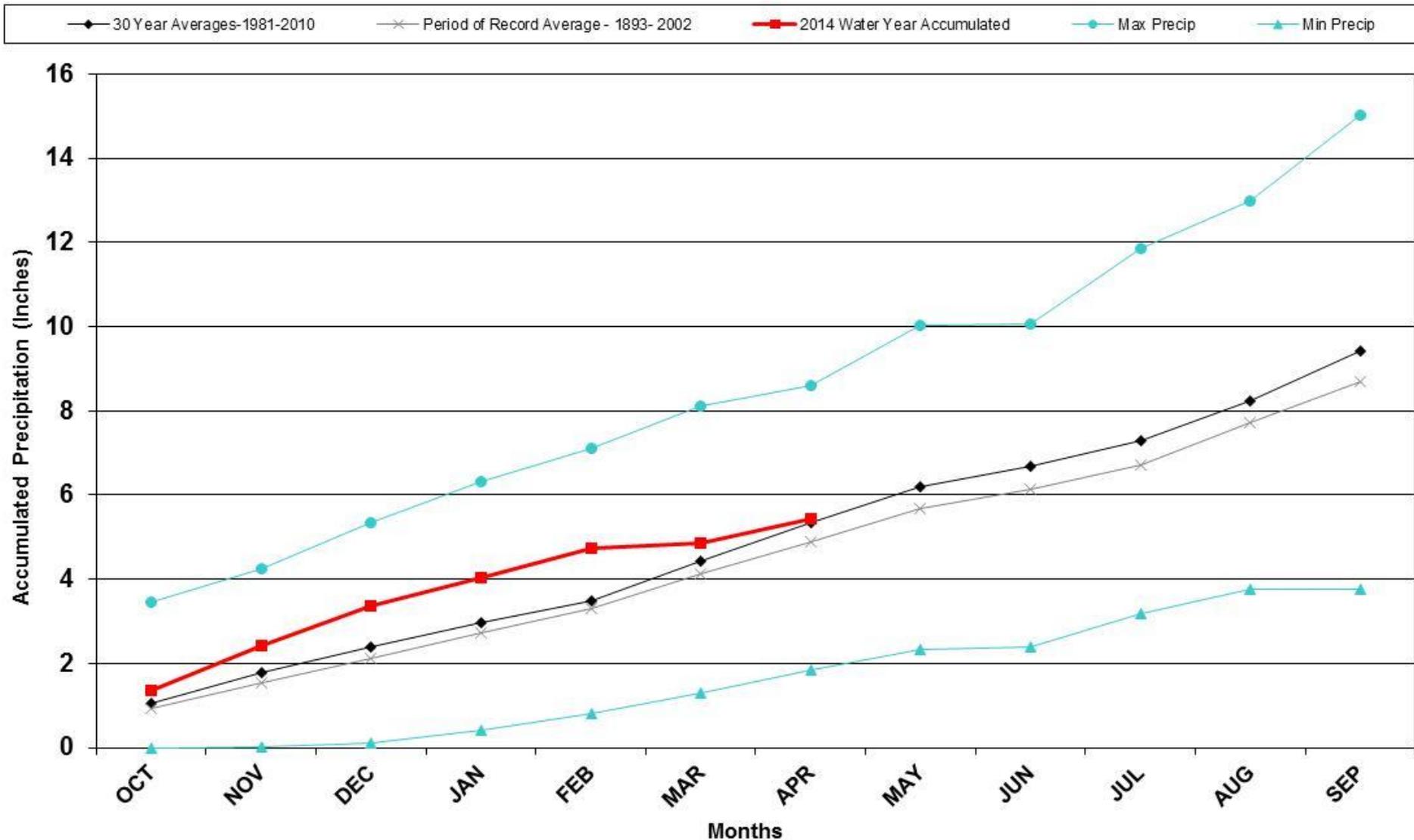
Division 1 – Grand Lake 1NW

Grand Lake 1NW Precipitation Accumulation



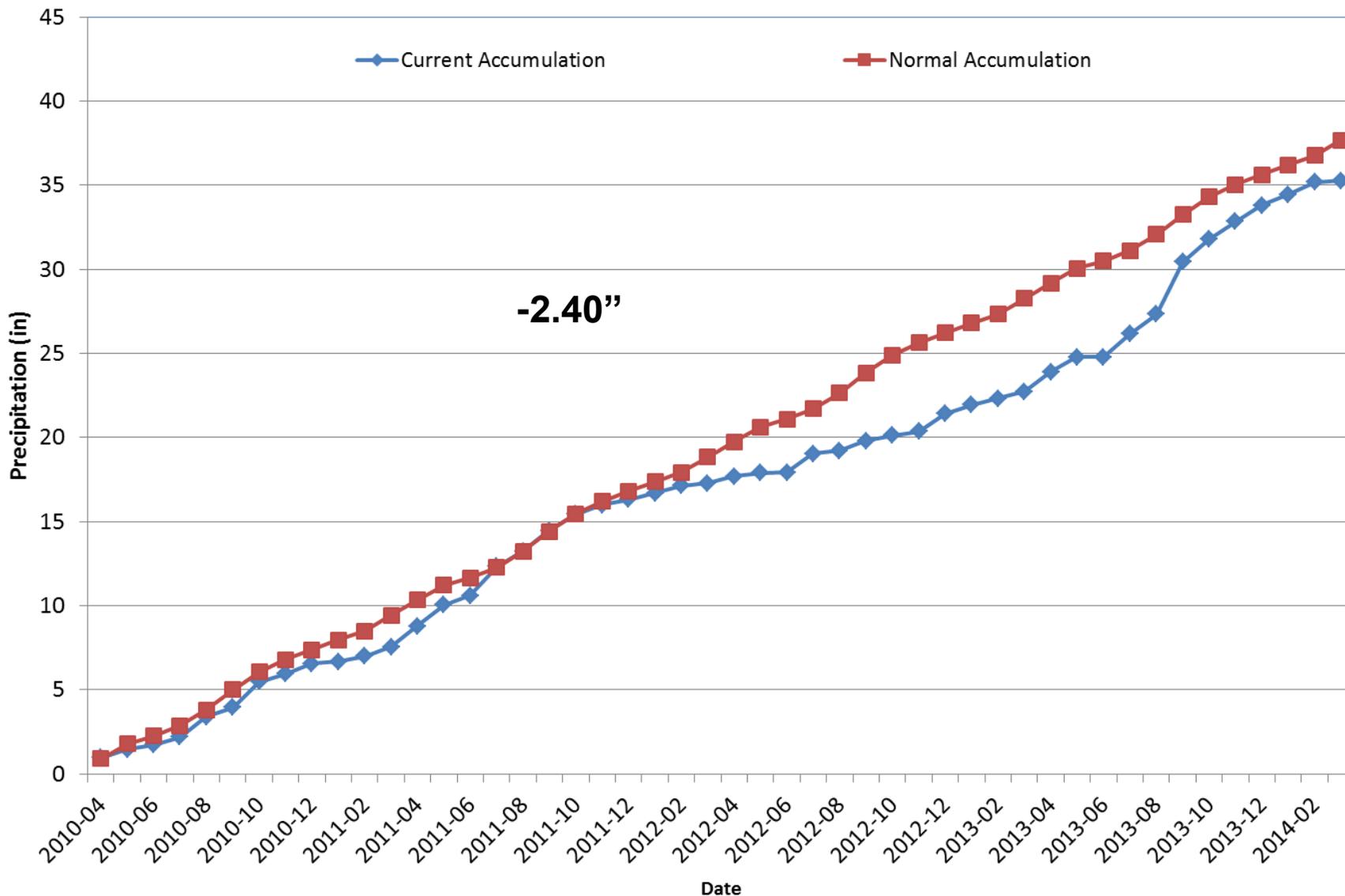
Division 2 – Grand Junction

Grand Junction WSFO 2014 Water Year



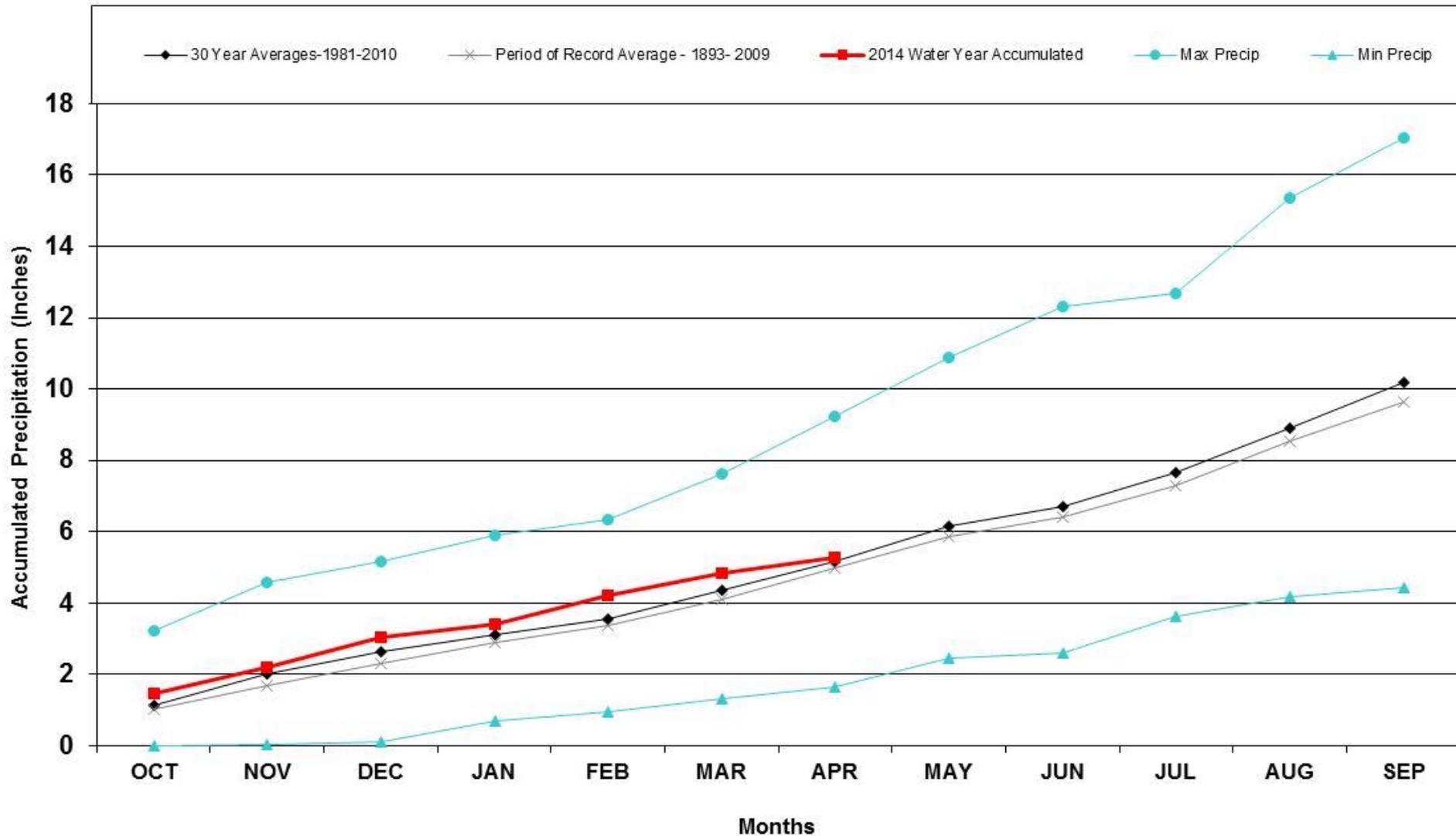
Division 2 – Grand Junction

Grand Junction Precipitation Accumulation



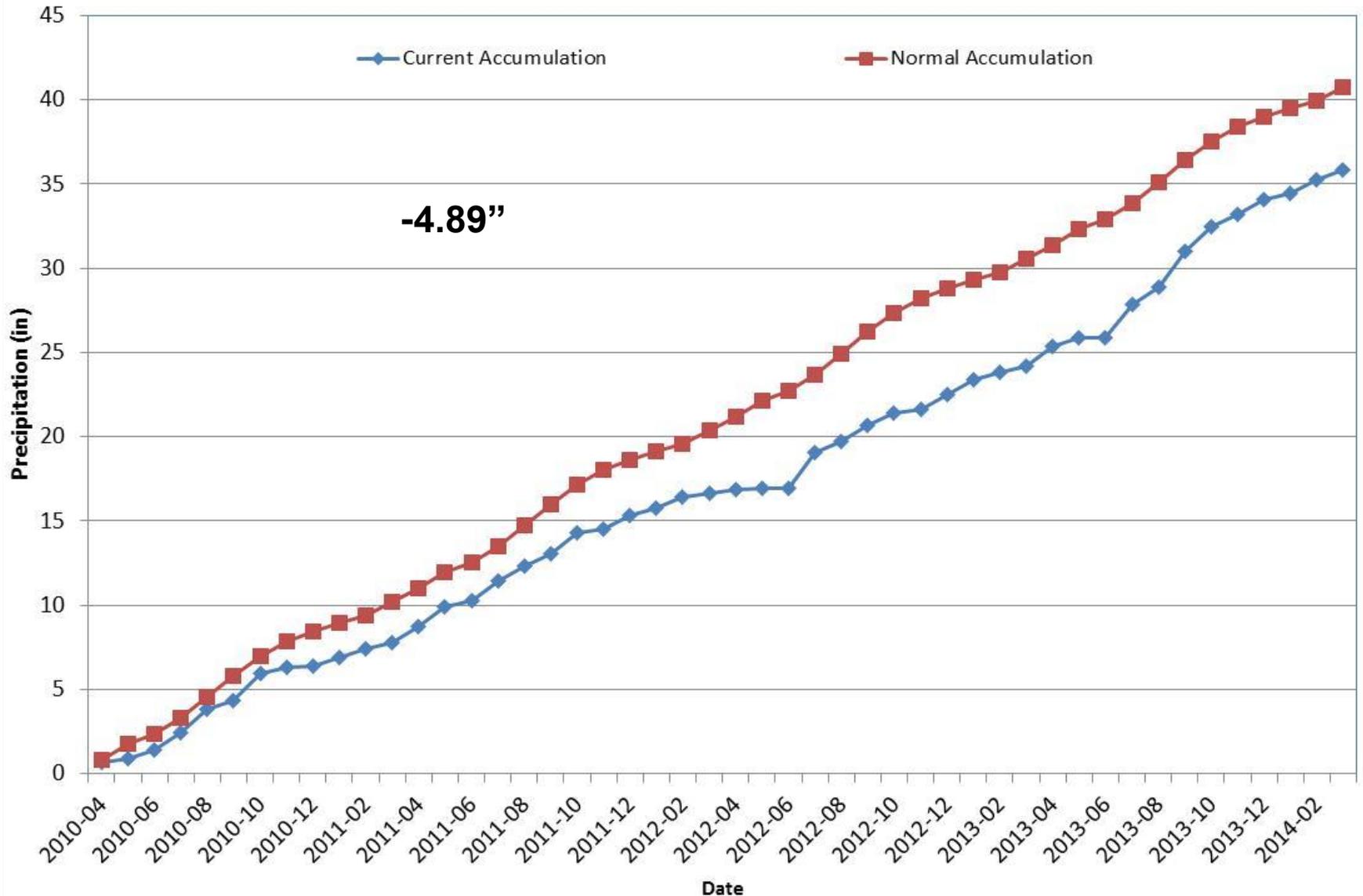
Division 3 – Montrose

Montrose #2 2014 Water Year



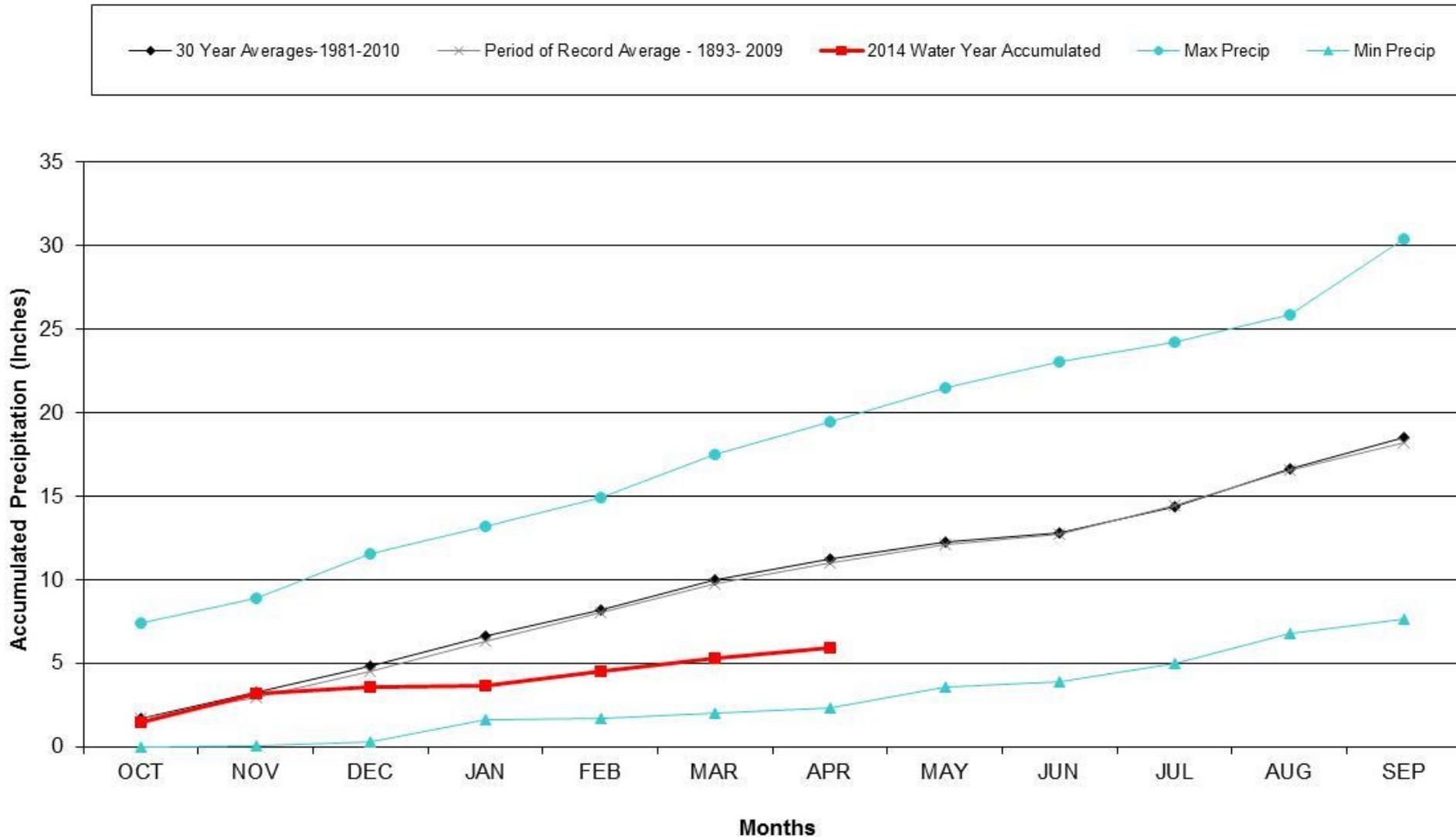
Division 3 – Montrose

Montrose #2 Precipitation Accumulation



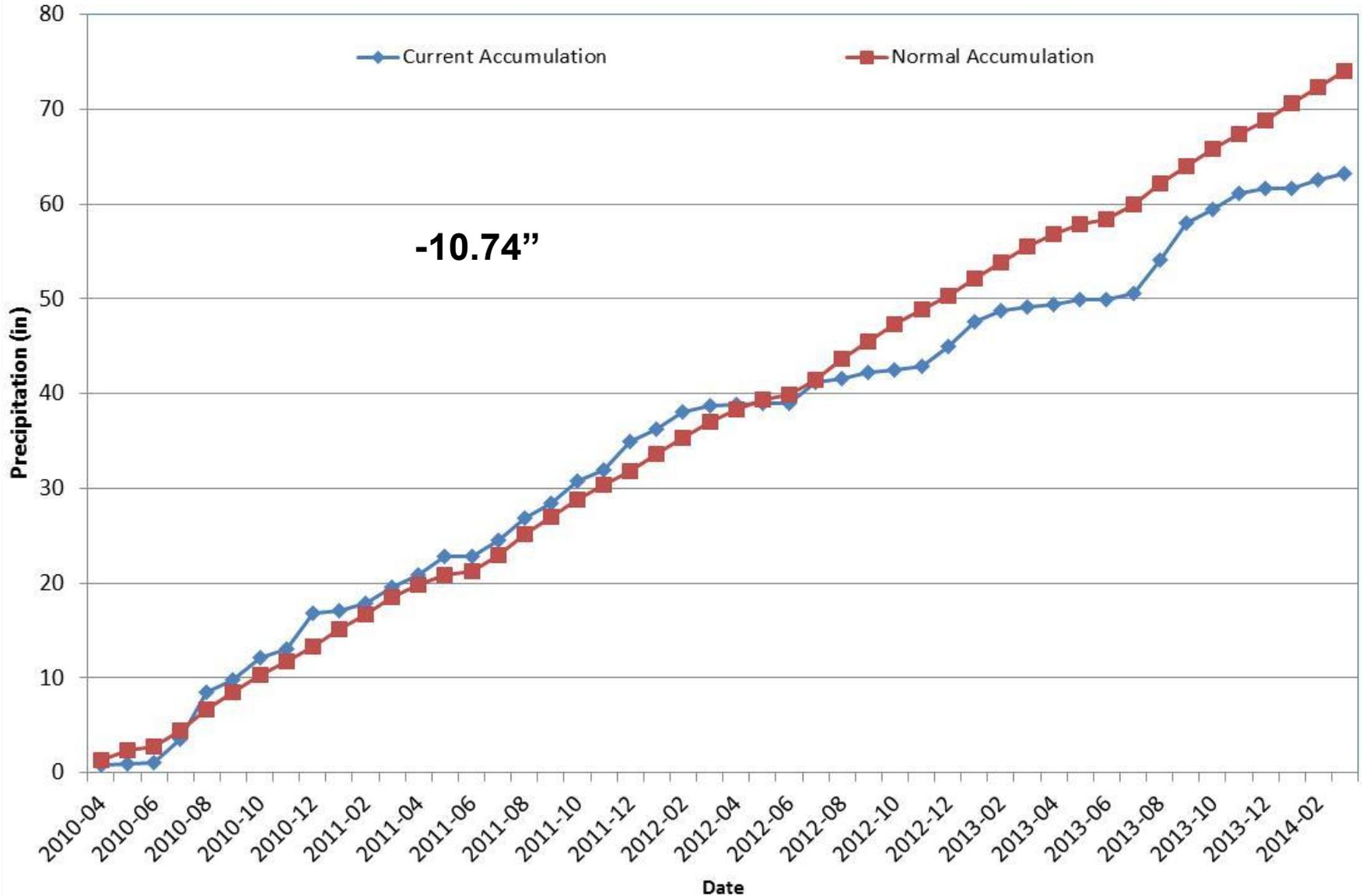
Division 3 – Mesa Verde NP

Mesa Verde NP 2014 Water Year



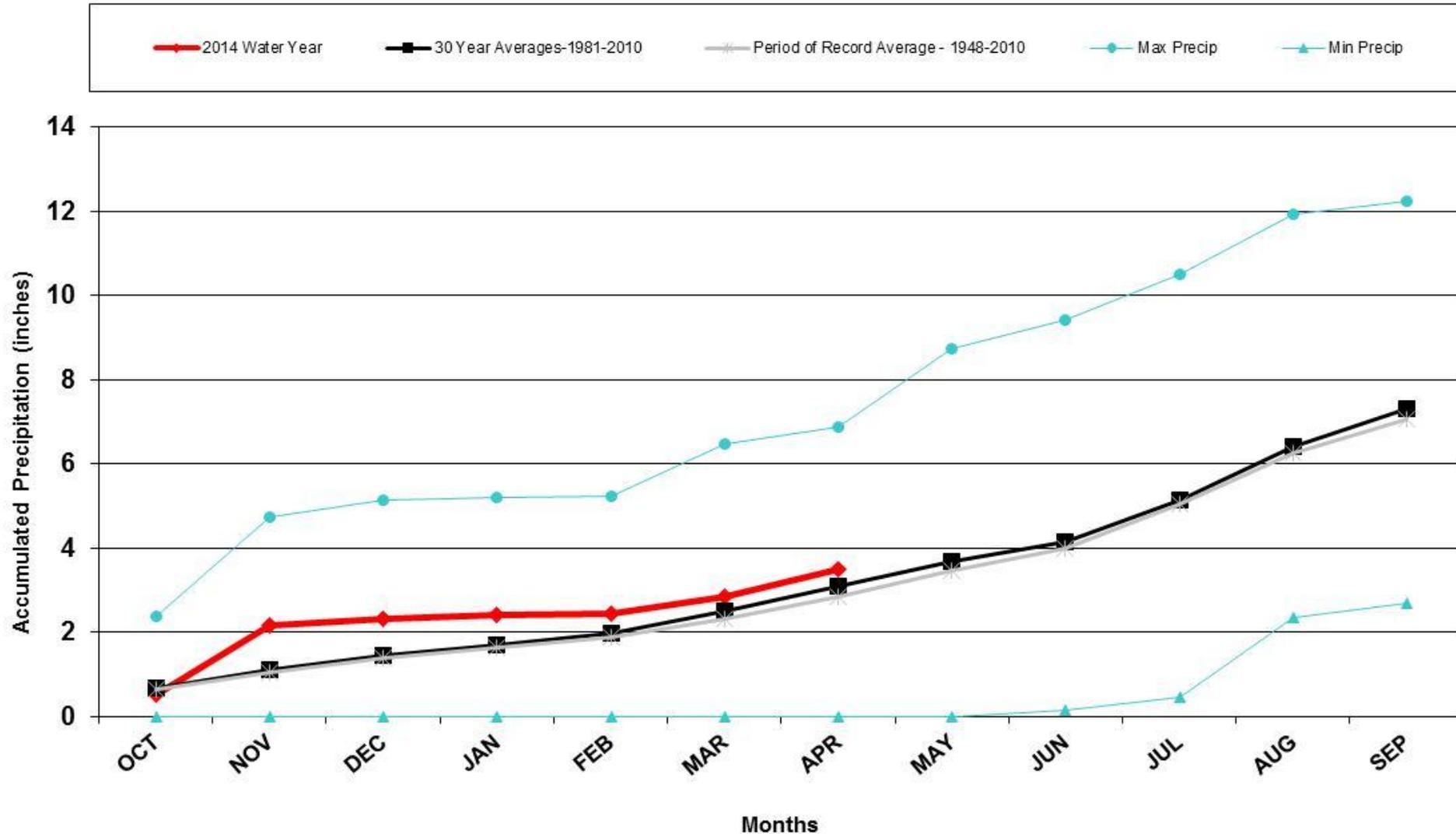
Division 3 – Mesa Verde NP

Mesa Verde NP Precipitation Accumulation



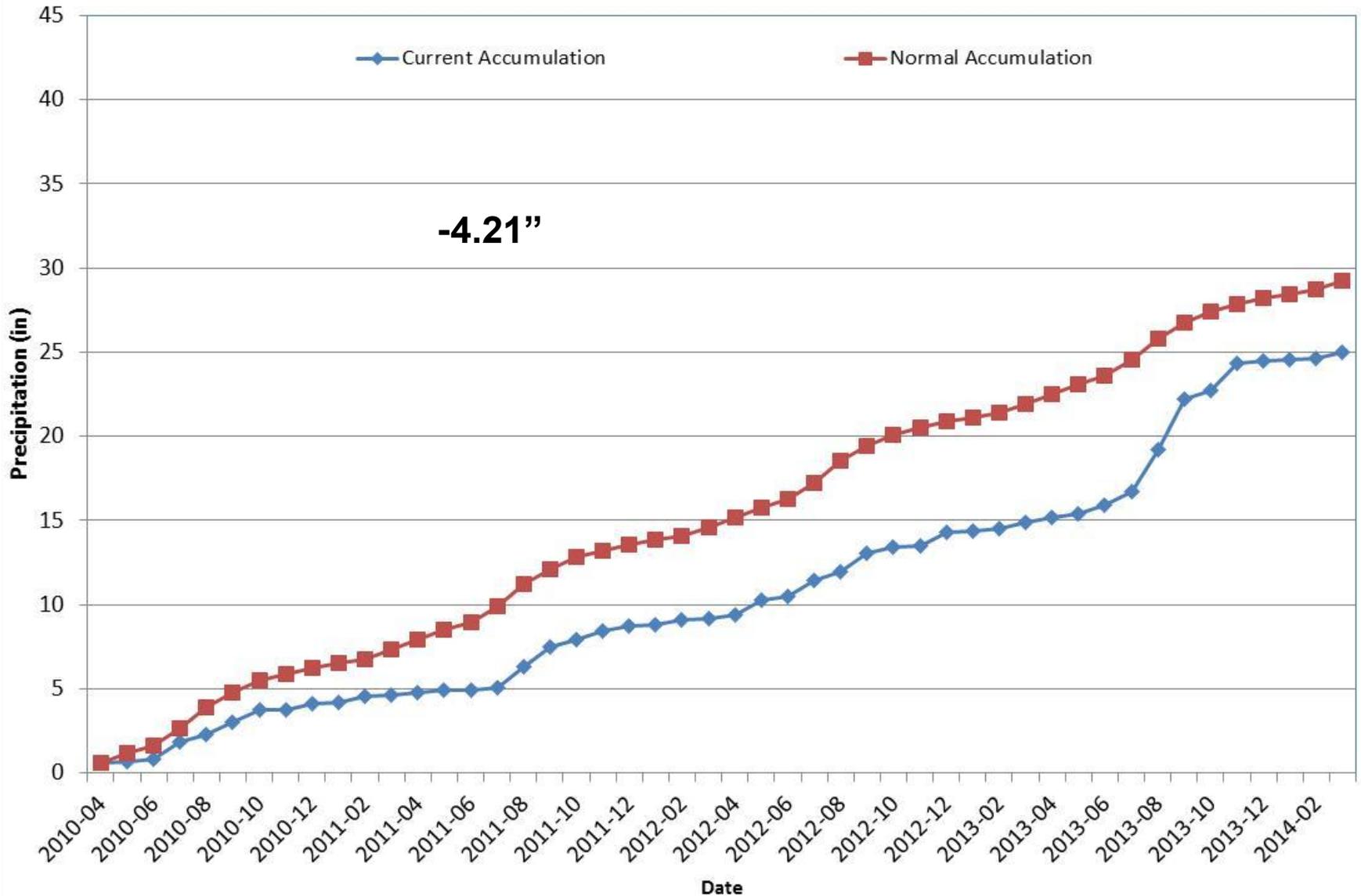
Division 4 – Alamosa

Alamosa WSO 2014 Water Year



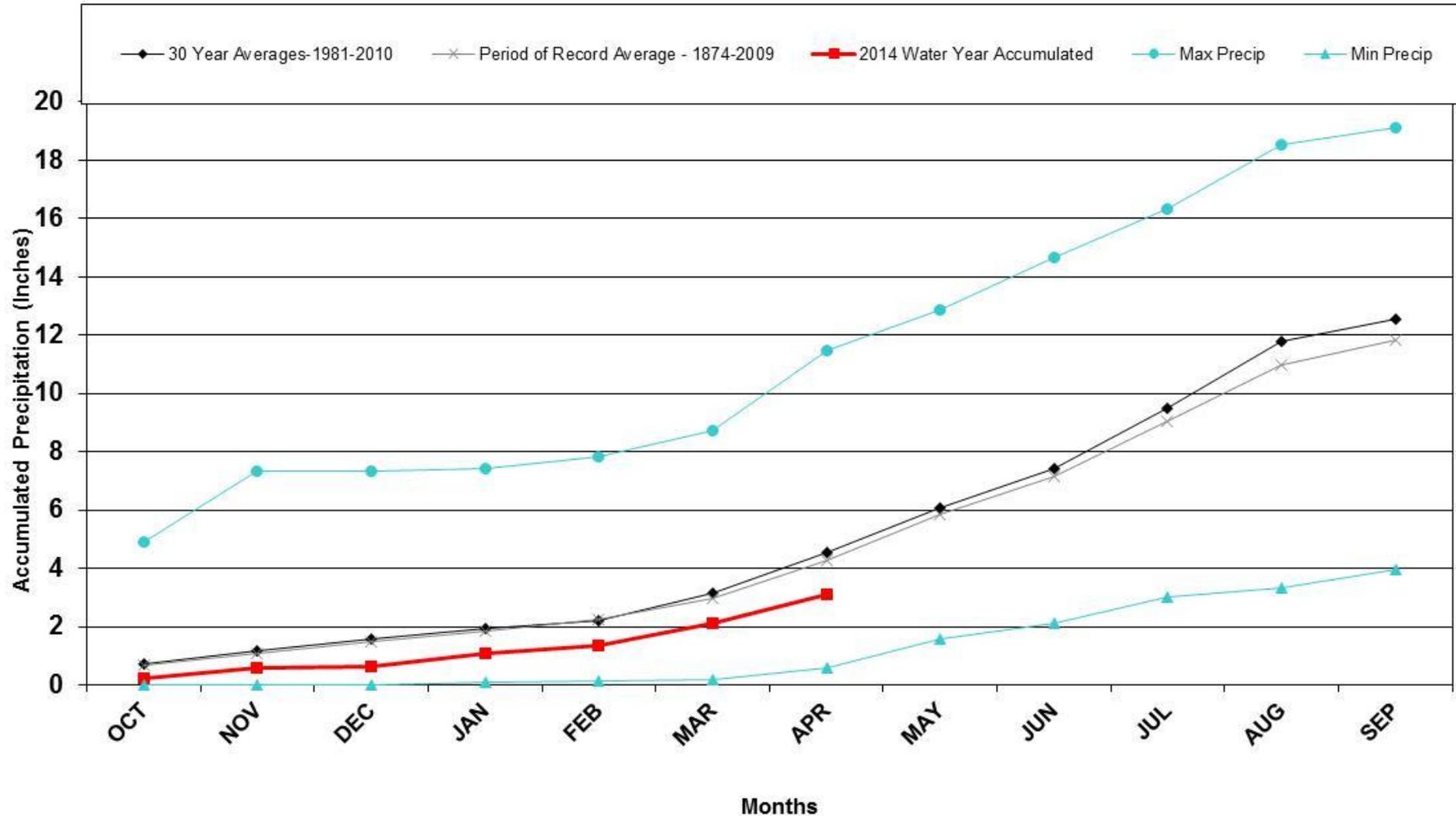
Division 4 – Alamosa

Alamosa WSO Precipitation Accumulation



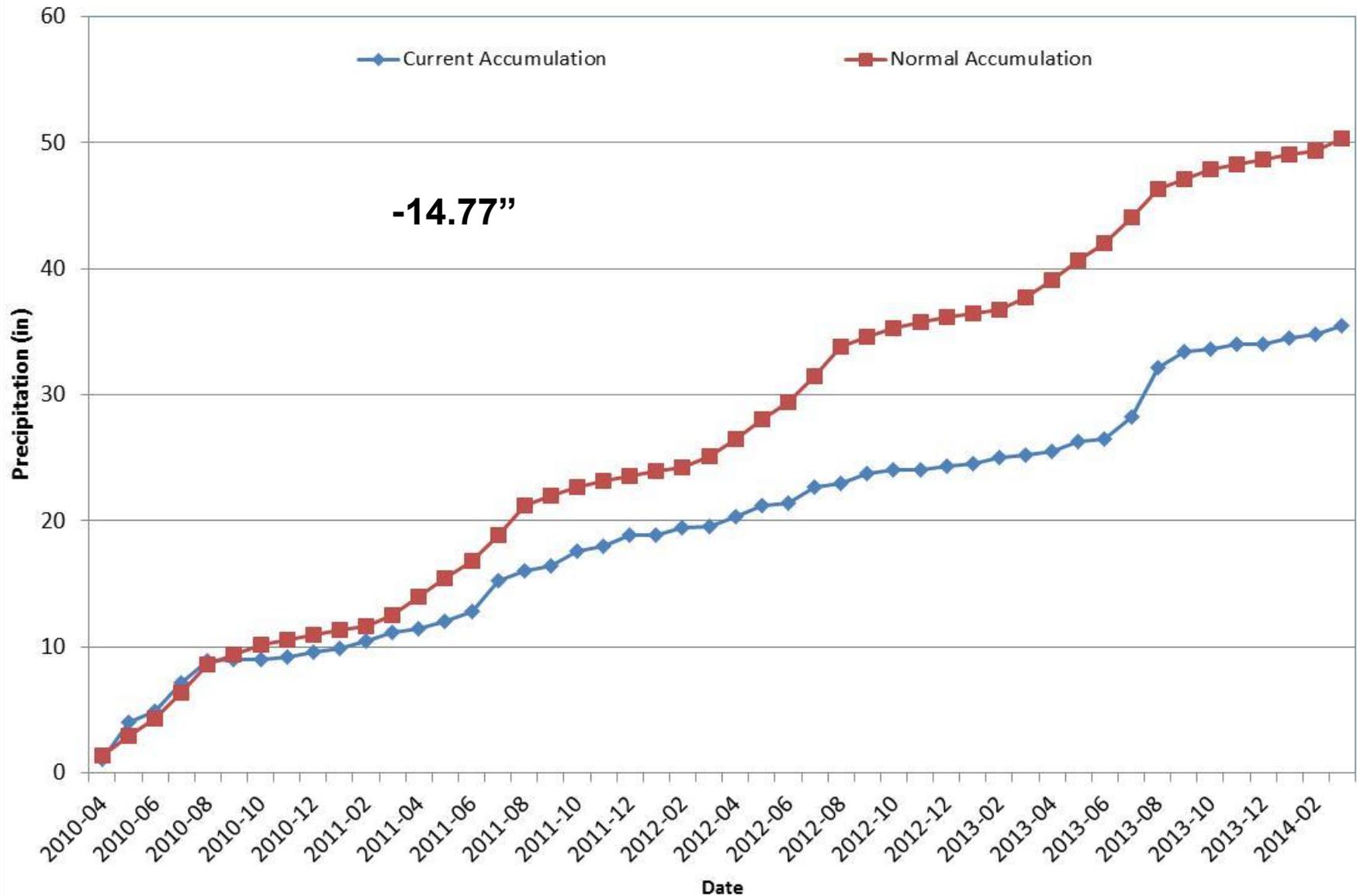
Division 5 – Pueblo

Pueblo WSO 2014 Water Year



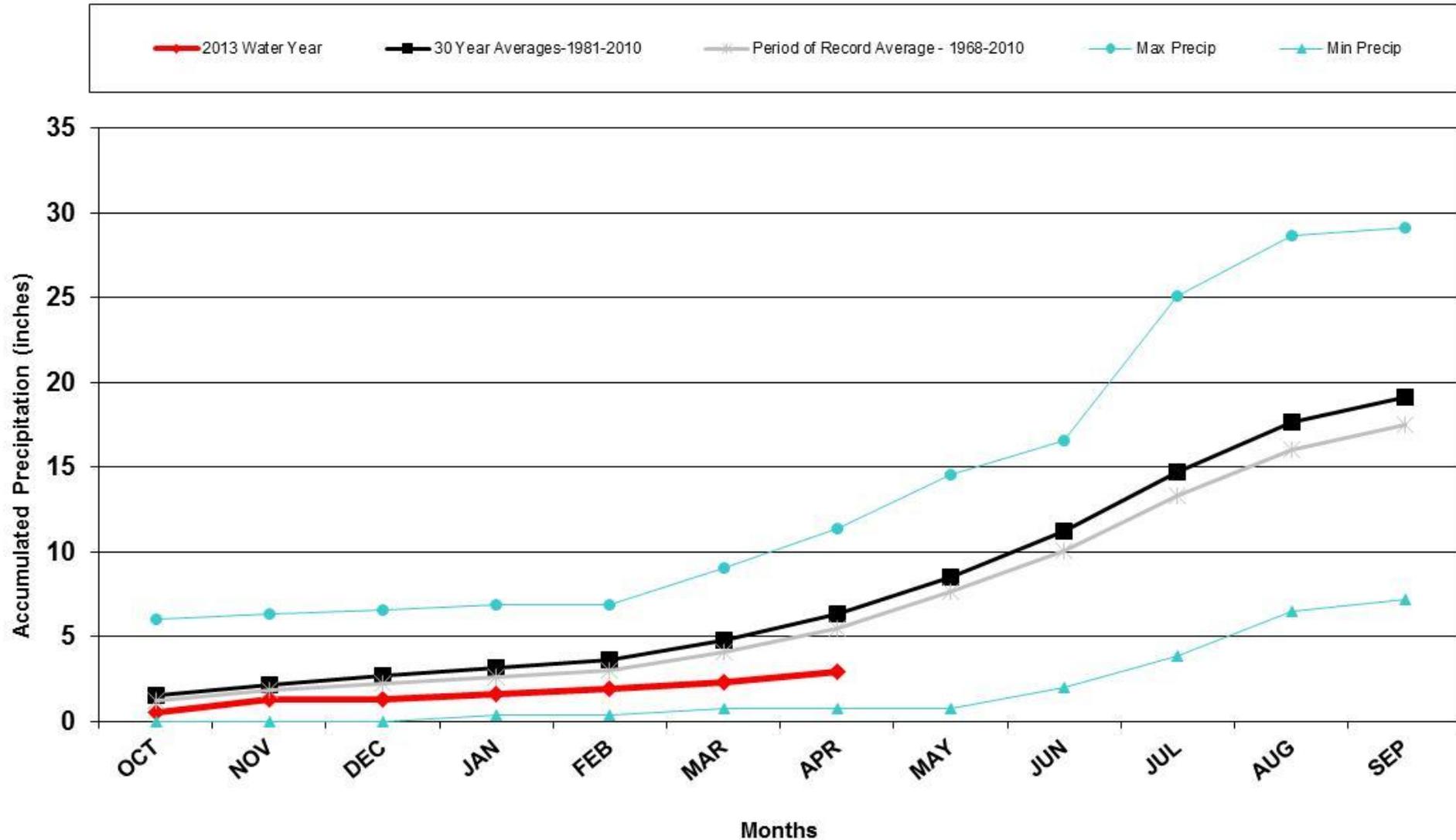
Division 5 – Pueblo

Pueblo Memorial AP Precipitation Accumulation



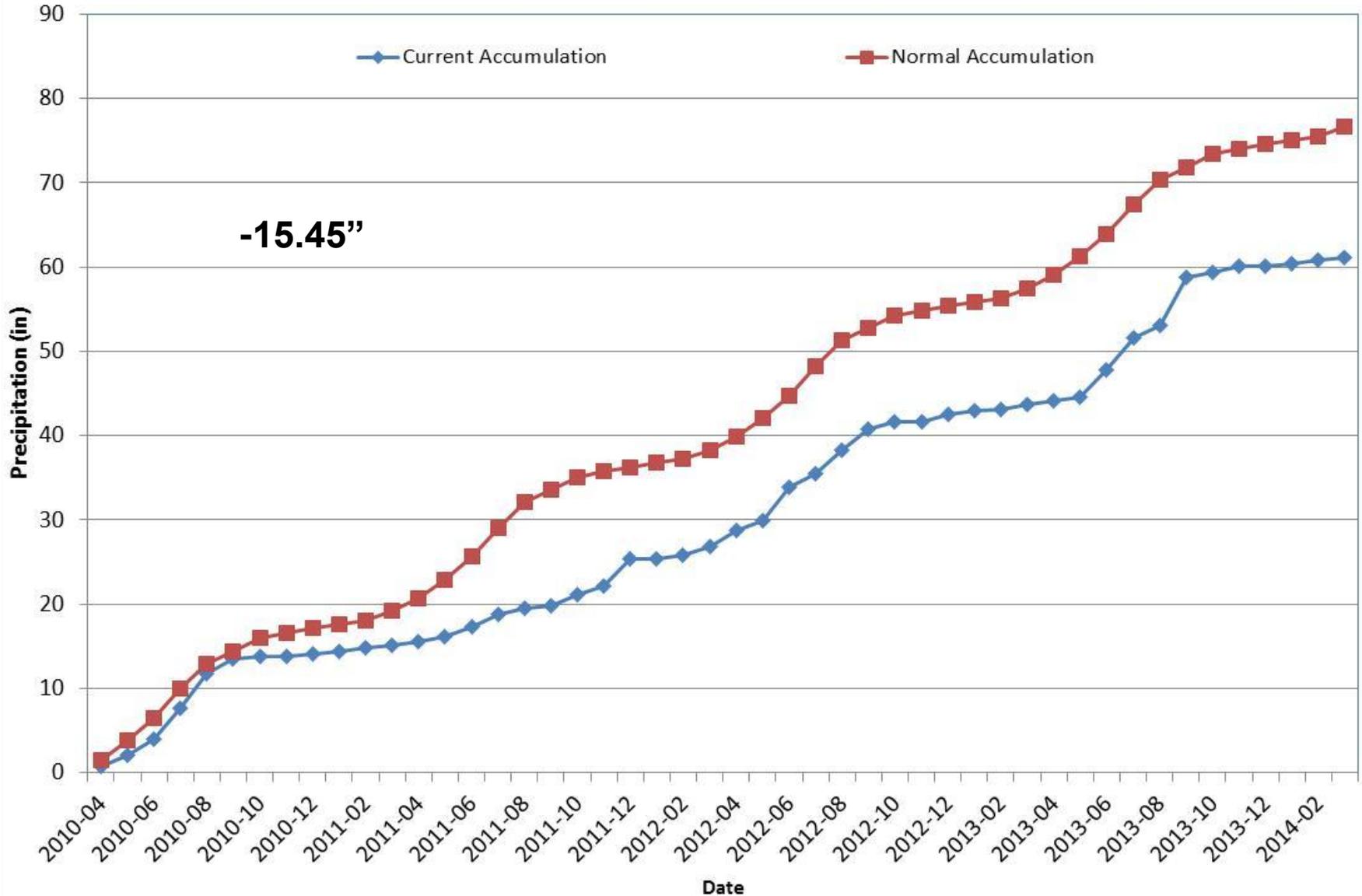
Division 6 - Walsh

Walsh 2014 Water Year



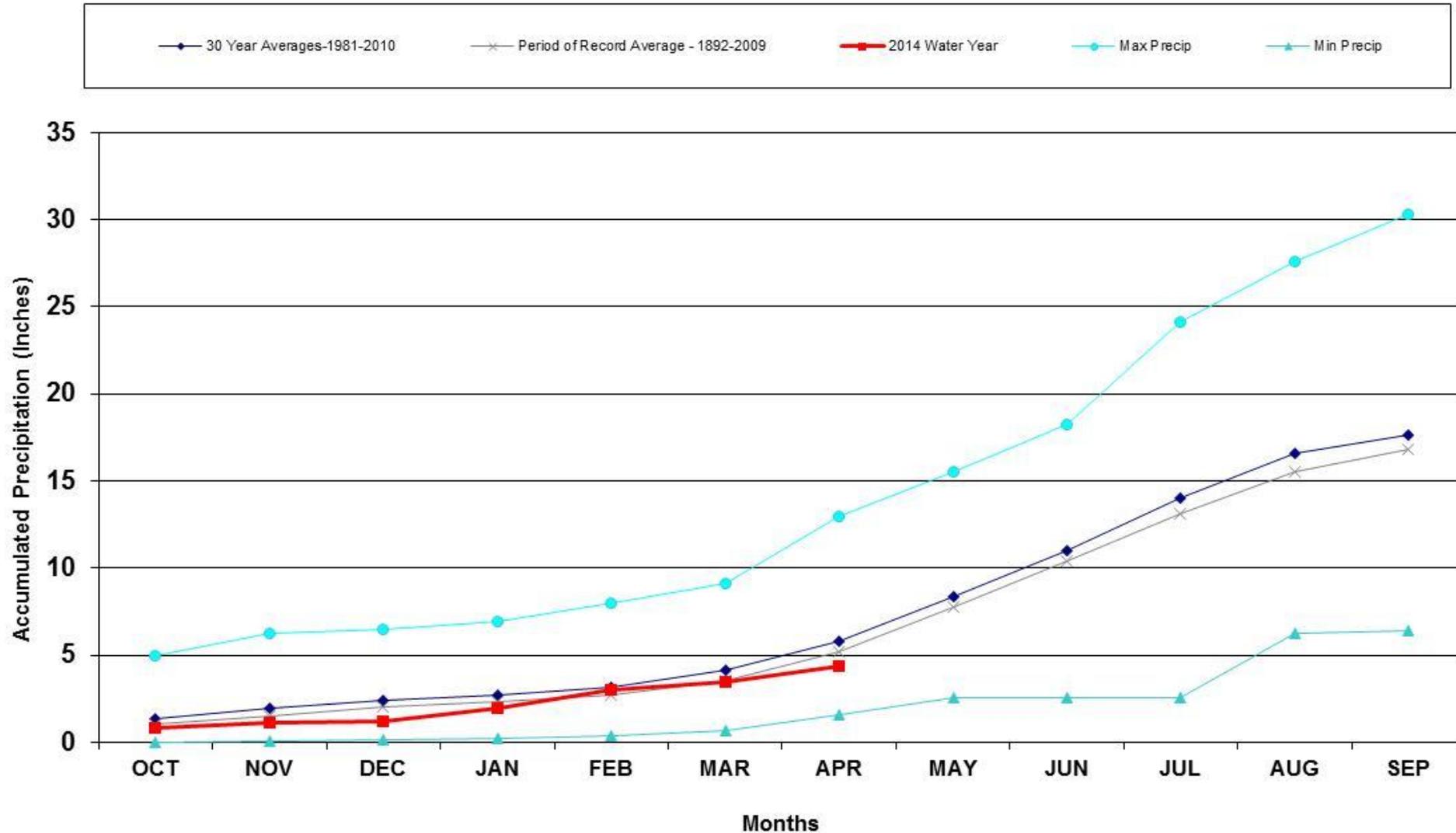
Division 6 - Walsh

Walsh 1W Precipitation Accumulation



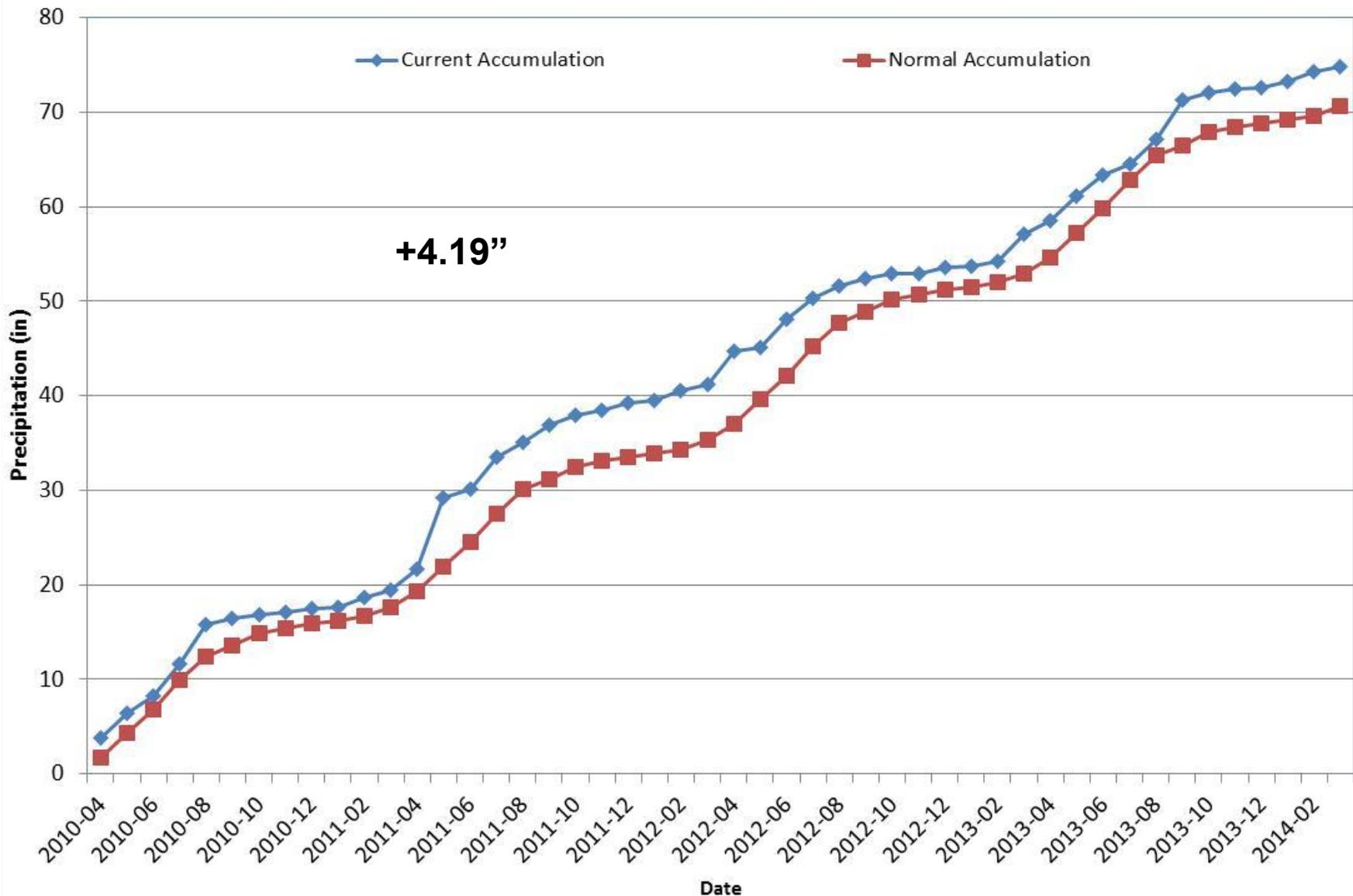
Division 6 - Burlington

Burlington 2014 Water Year



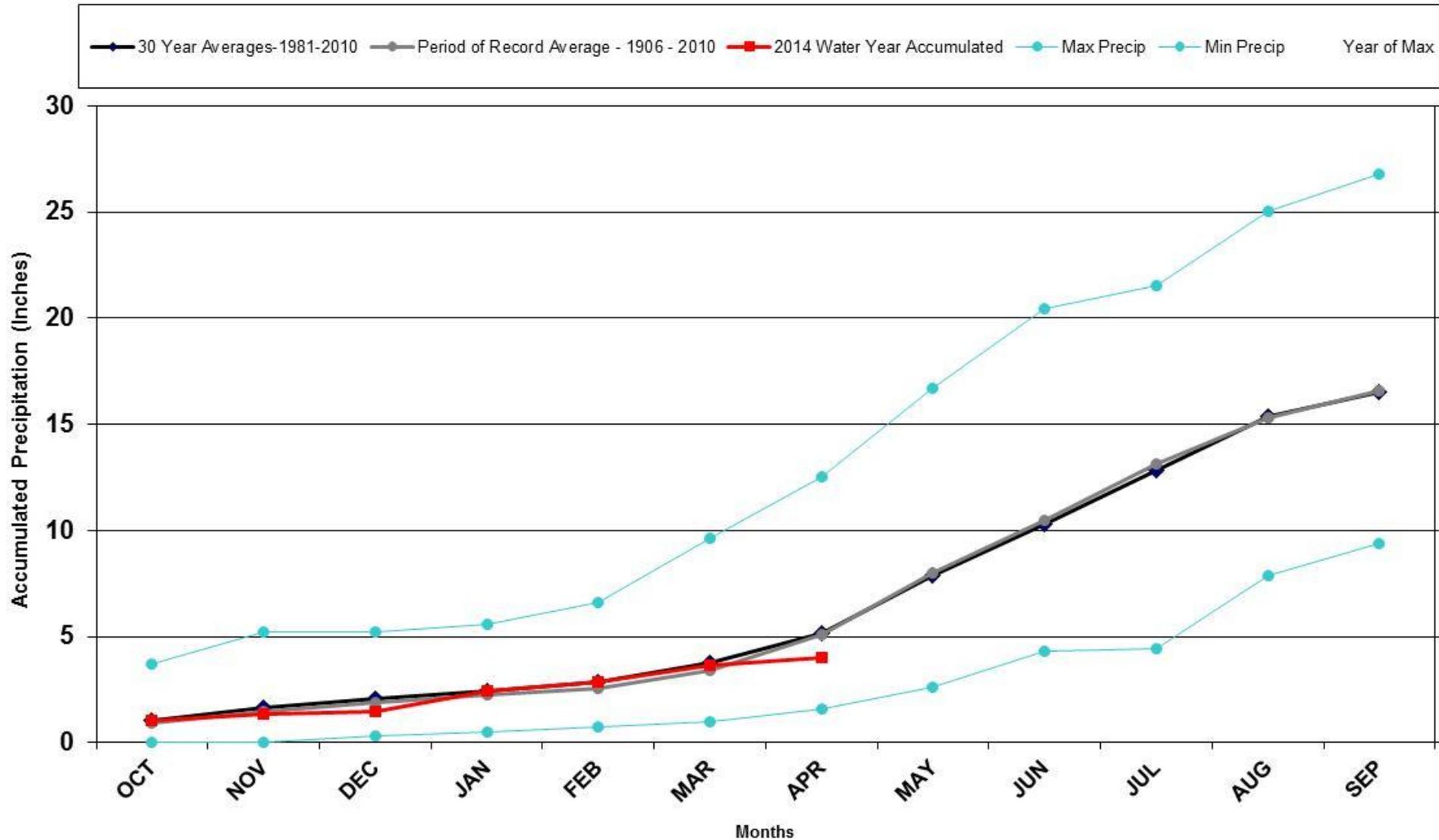
Division 6 - Burlington

Burlington, CO Precipitation Accumulation



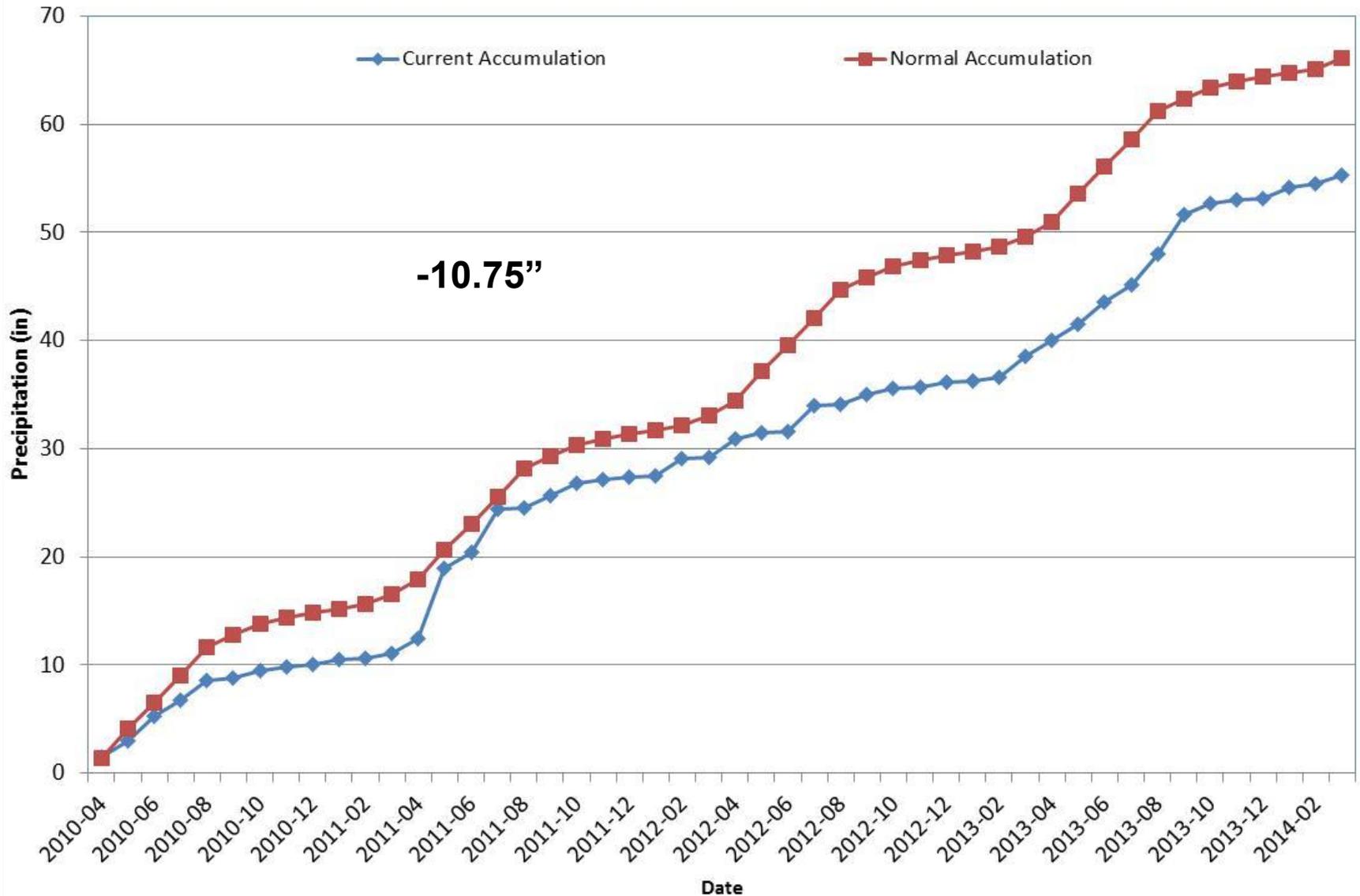
Division 7 – Akron

Akron 4E 2014 Water Year



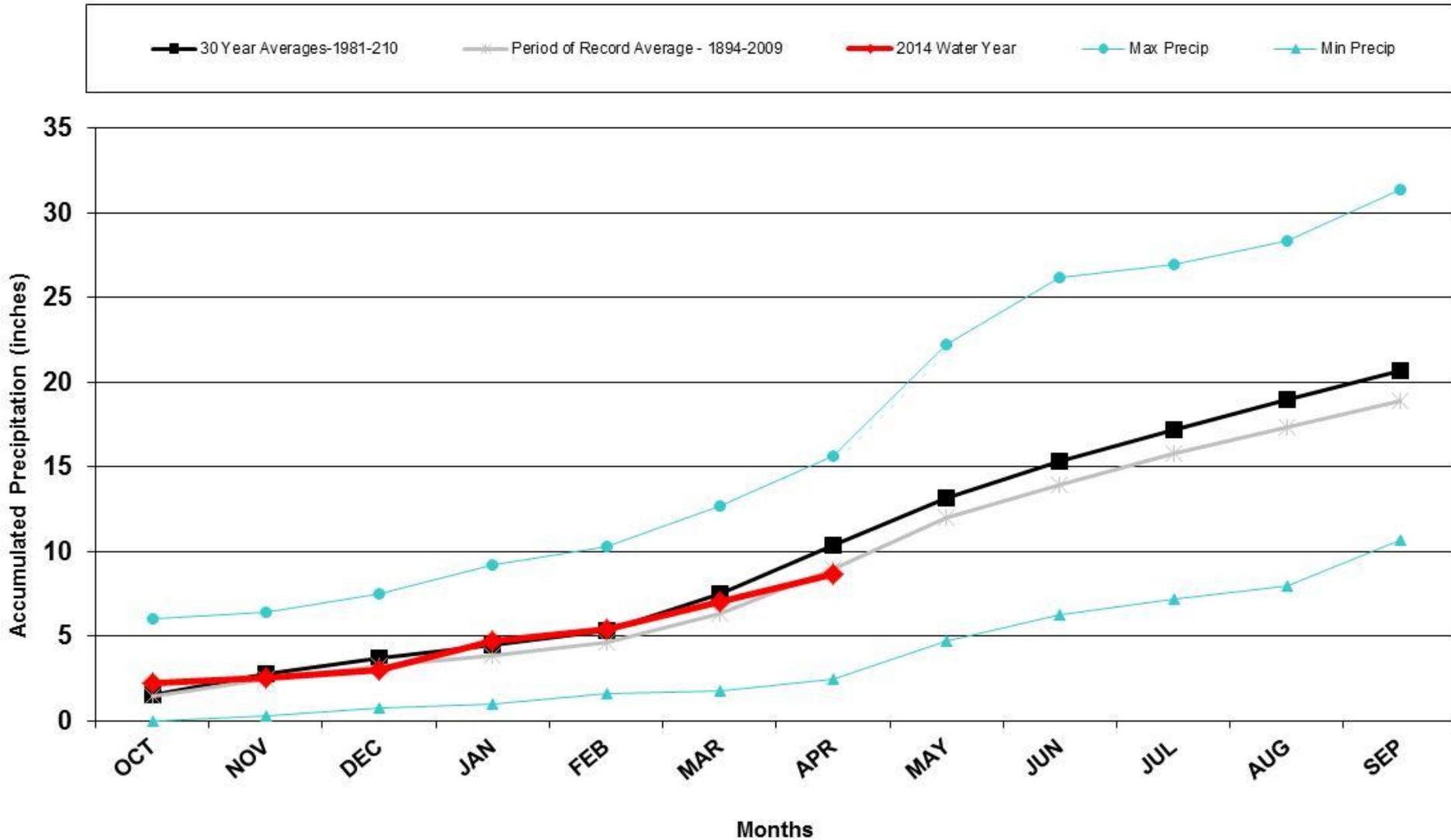
Division 7 – Akron

Akron 4E Precipitation Accumulation



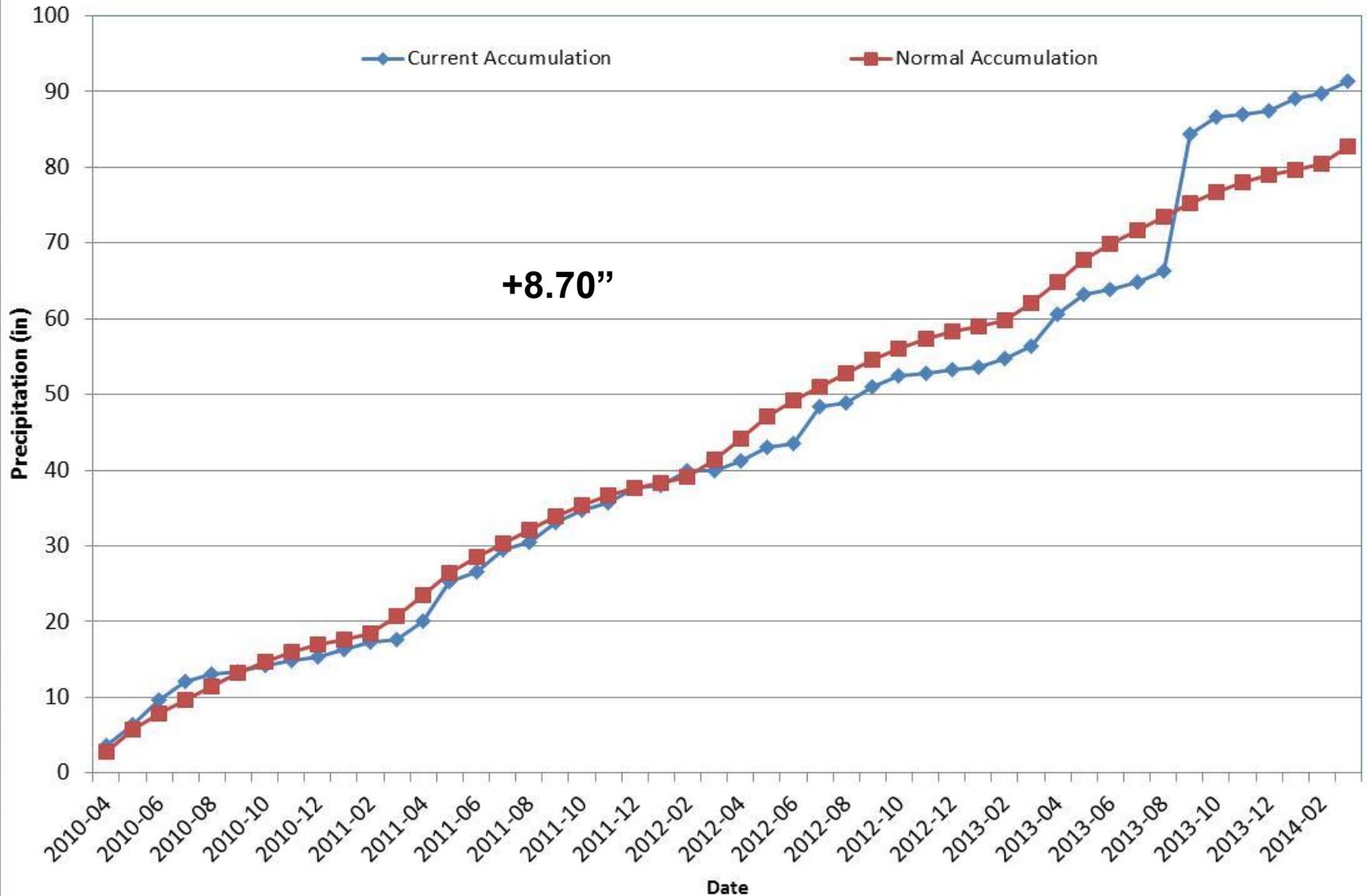
Division 8 - Boulder

Boulder 2014 Water Year



Division 8 - Boulder

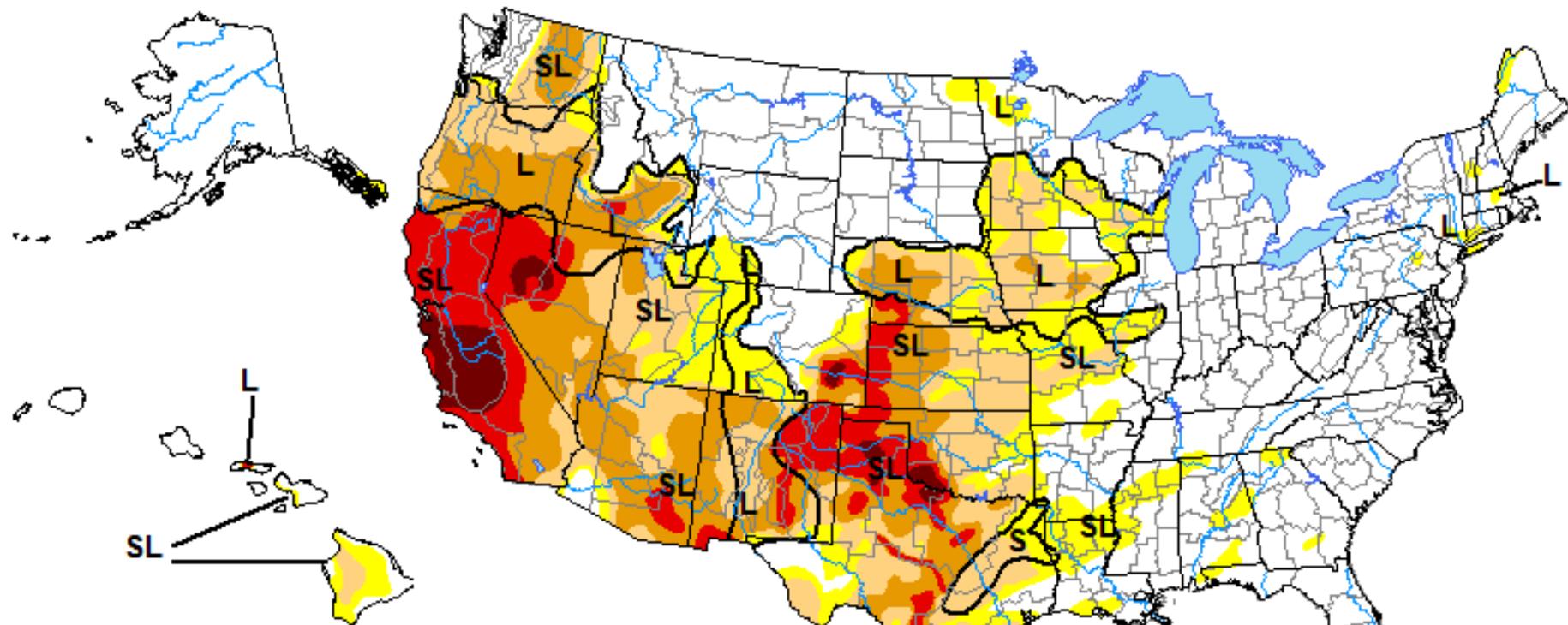
Boulder Precipitation Accumulation



U.S. Drought Monitor

March 18, 2014

Valid 8 a.m. EDT



Intensity:

-  D0 Abnormally Dry
-  D1 Drought - Moderate
-  D2 Drought - Severe
-  D3 Drought - Extreme
-  D4 Drought - Exceptional

Drought Impact Types:

-  Delineates dominant impacts
- S = Short-Term, typically <6 months
(e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months
(e.g. hydrology, ecology)

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, March 20, 2014

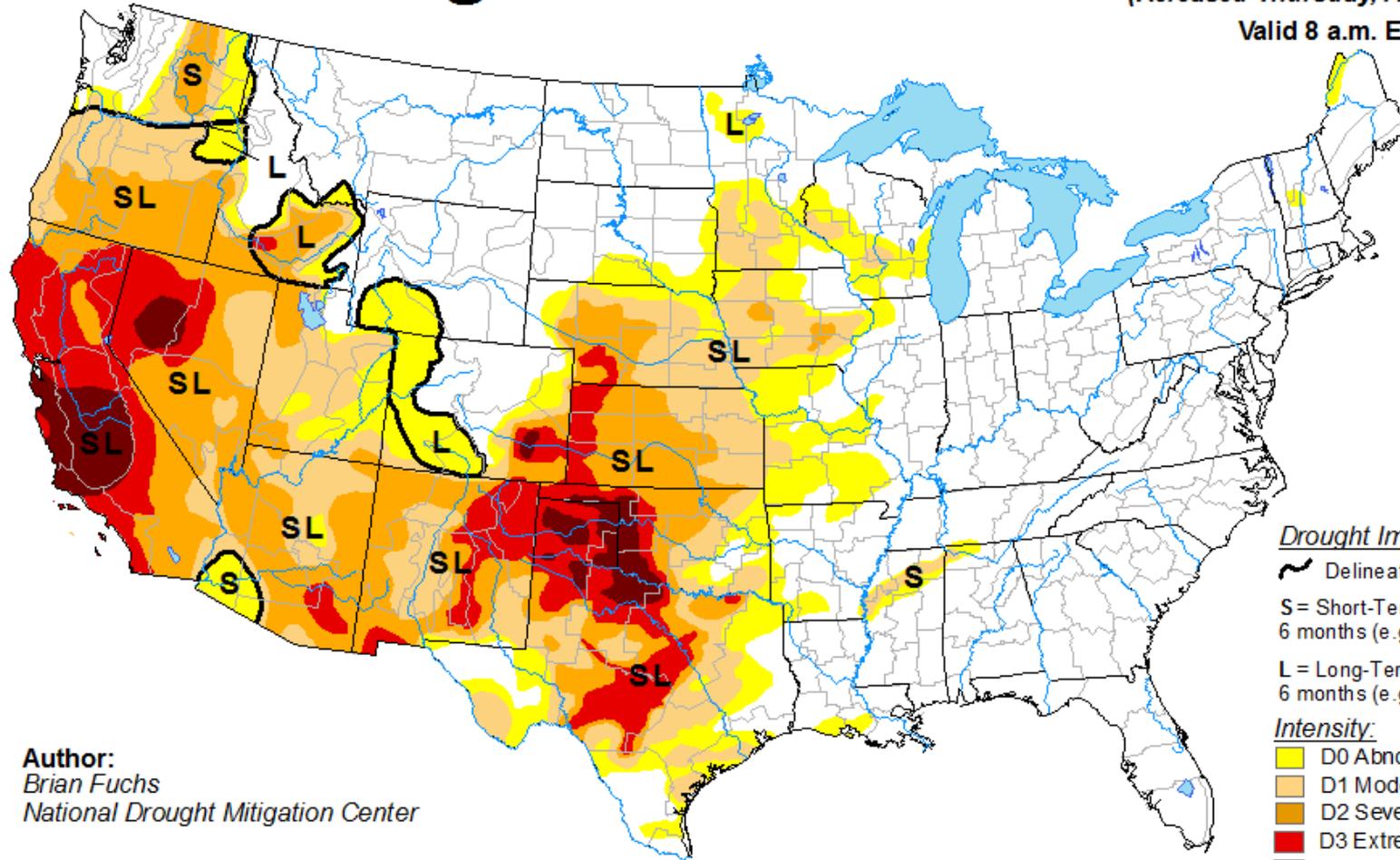
Author: Eric Luebehusen, U.S. Department of Agriculture

U.S. Drought Monitor

April 8, 2014

(Released Thursday, Apr. 10, 2014)

Valid 8 a.m. EDT



Author:
Brian Fuchs
National Drought Mitigation Center

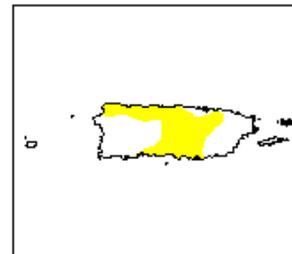
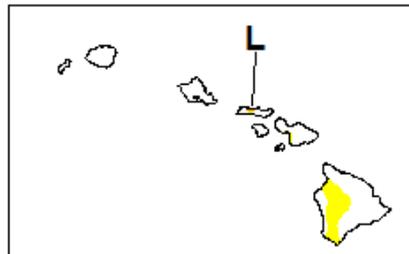
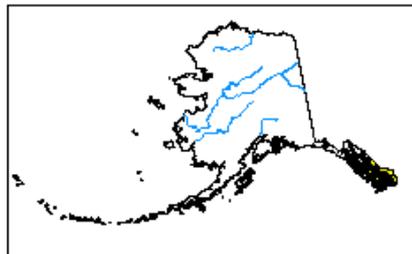
Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

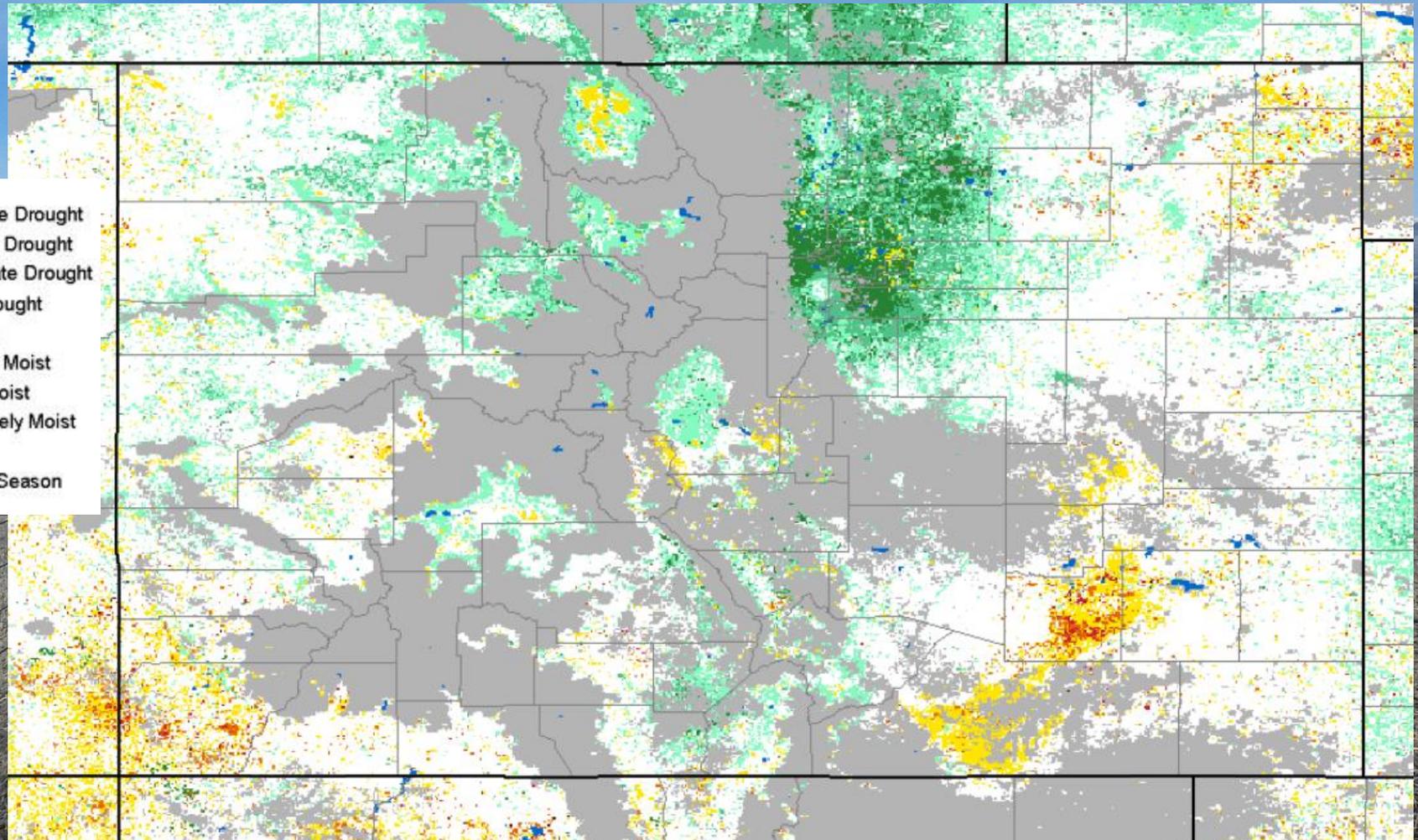
- Yellow: D0 Abnormally Dry
- Light Orange: D1 Moderate Drought
- Orange: D2 Severe Drought
- Red: D3 Extreme Drought
- Dark Red: D4 Exceptional Drought

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



<http://droughtmonitor.unl.edu/>

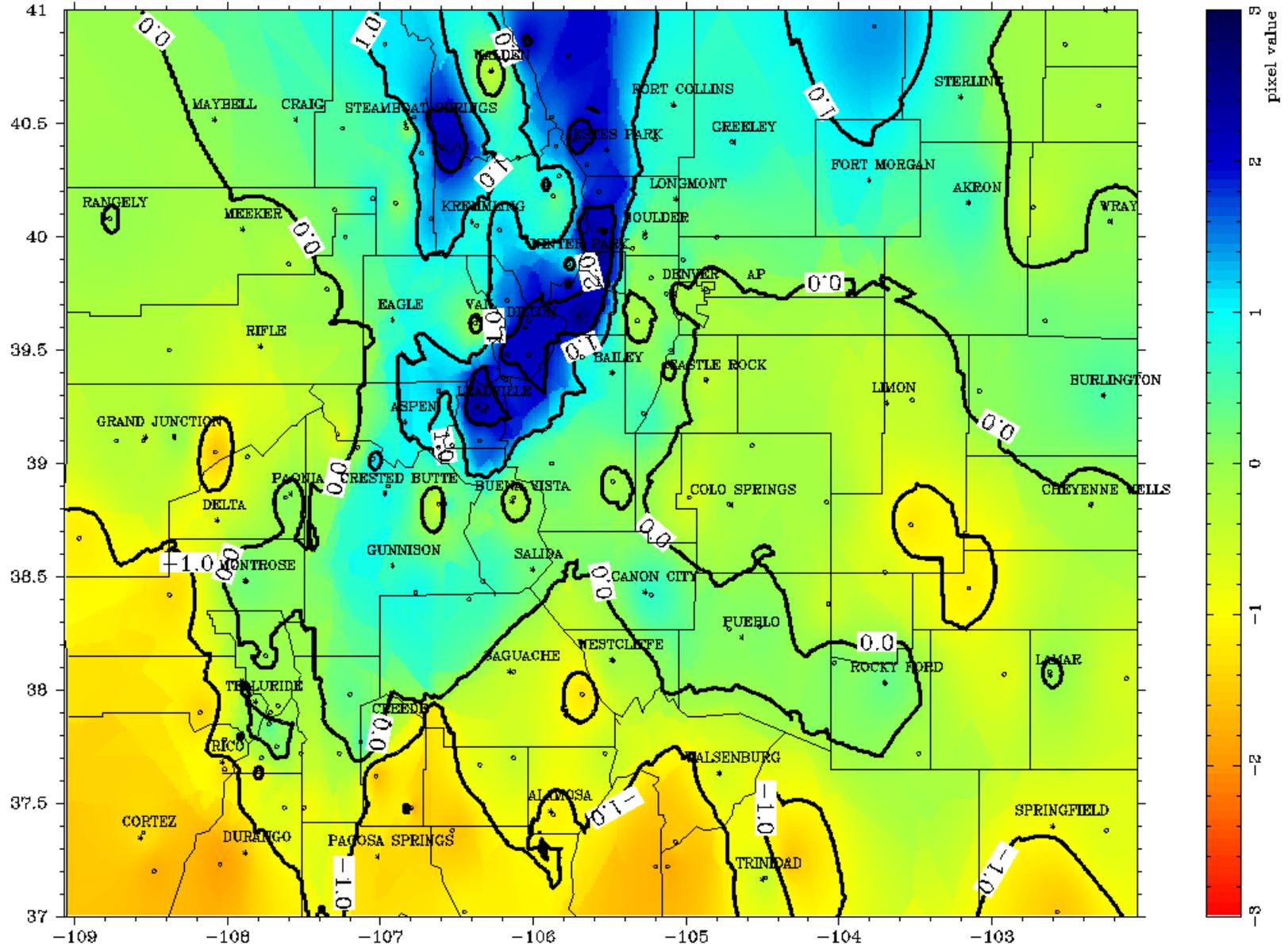
VegDri- 4/13/14



Colorado

3/2014 3 mon. SPI

JULESBURG



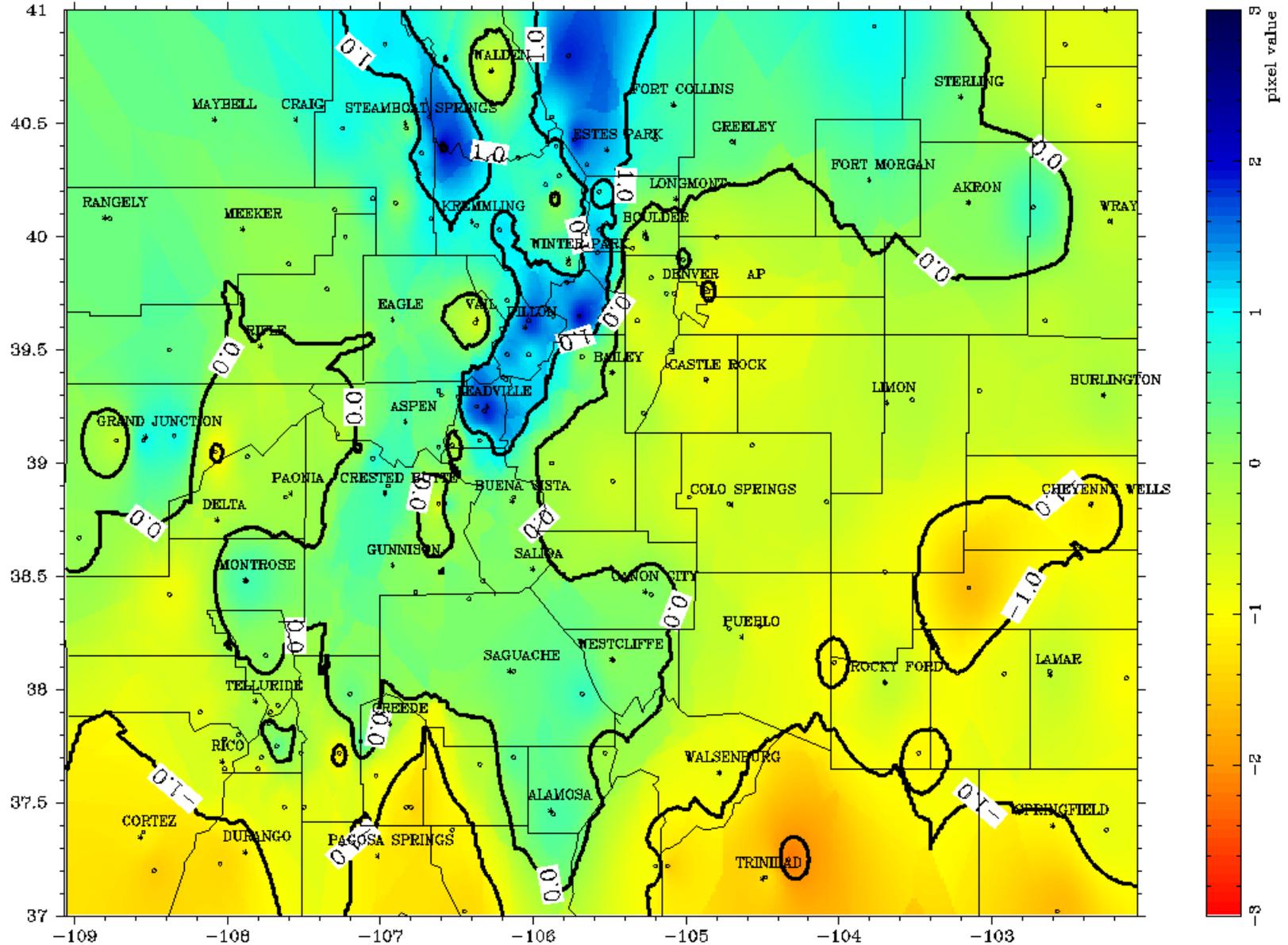
99 % < 2.0	14 % < -1.0
91 % < 1.0	0 % < -2.0
57 % < 0.0	0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

Colorado

3/2014 6 mon. SPI

JULESBURG



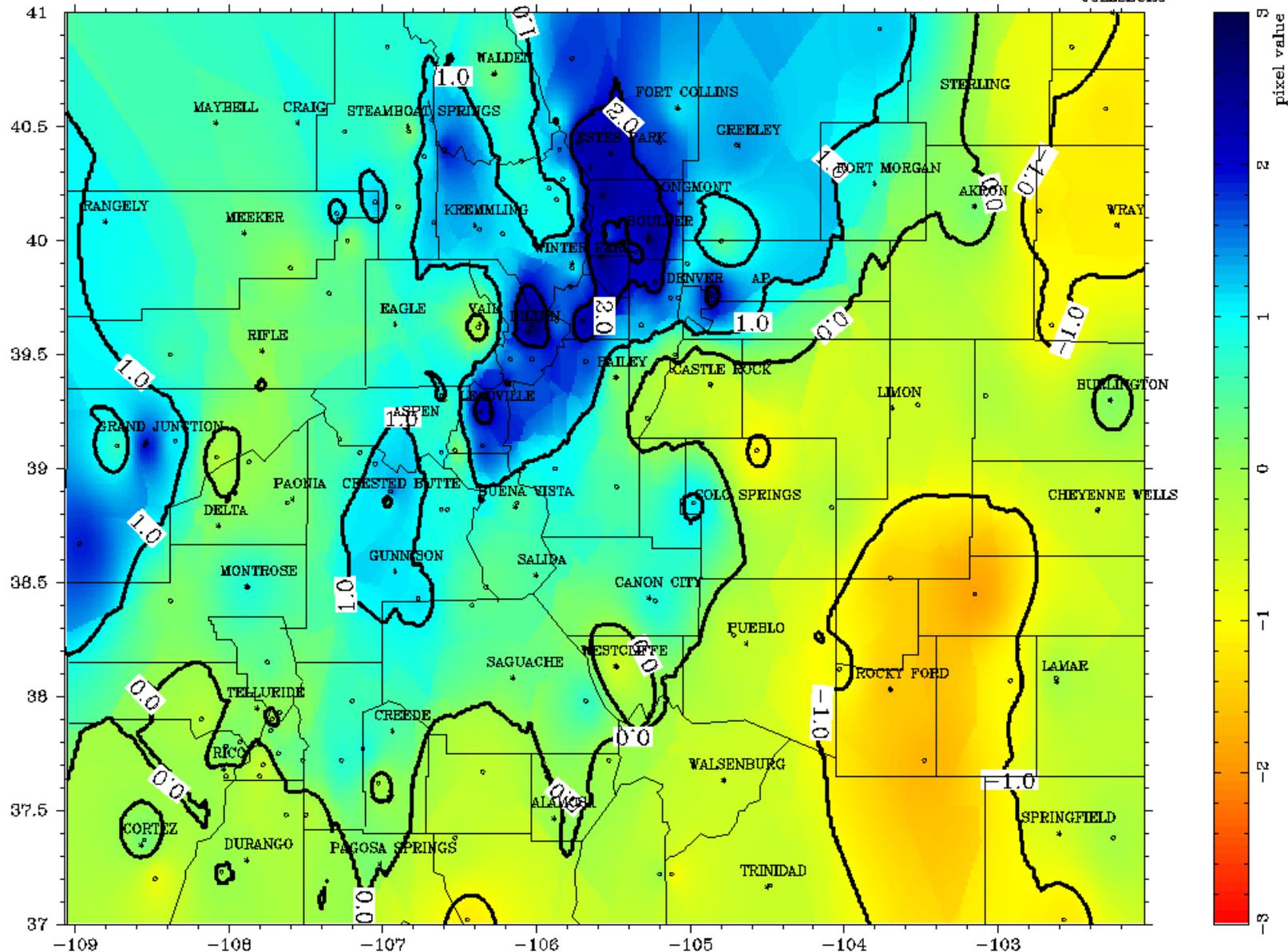
100 % < 2.0	13 % < -1.0
95 % < 1.0	0 % < -2.0
57 % < 0.0	0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

Colorado

3/2014 12 mon. SPI

JULESBURG



98 % < 2.0	11 % < -1.0
83 % < 1.0	0 % < -2.0
46 % < 0.0	0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

Colorado Climate Center

Data and Power Point Presentations available for downloading

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



COLORADO
CLIMATE
CENTER

Colorado
State
University
Knowledge to Go Places