



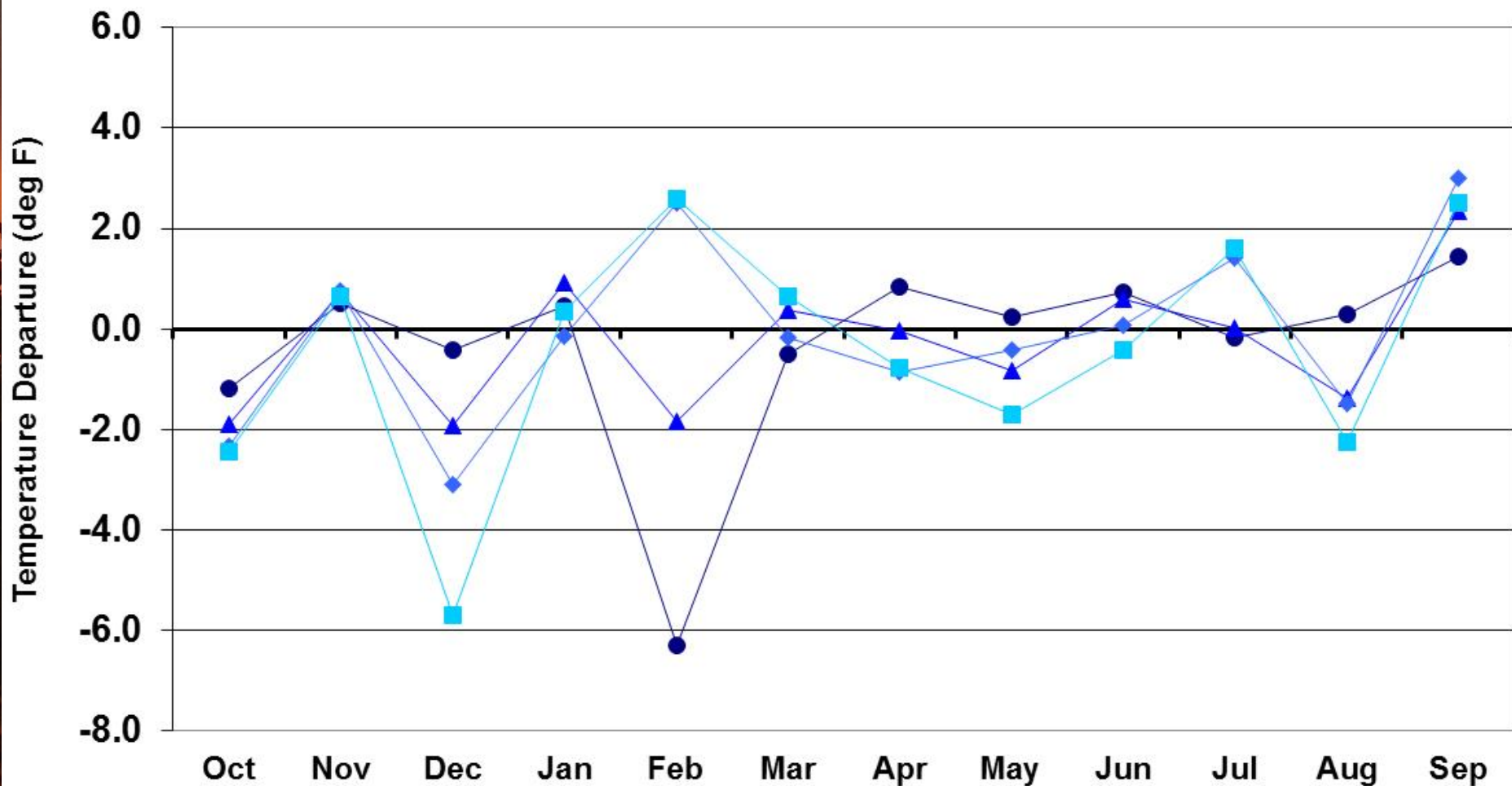
Climate Update



Wendy Ryan
Assistant State Climatologist
Colorado Climate Center

Presented to
Water Availability Task Force
18 November 2014
Denver, CO

Water Year 2014 Temperature Departures



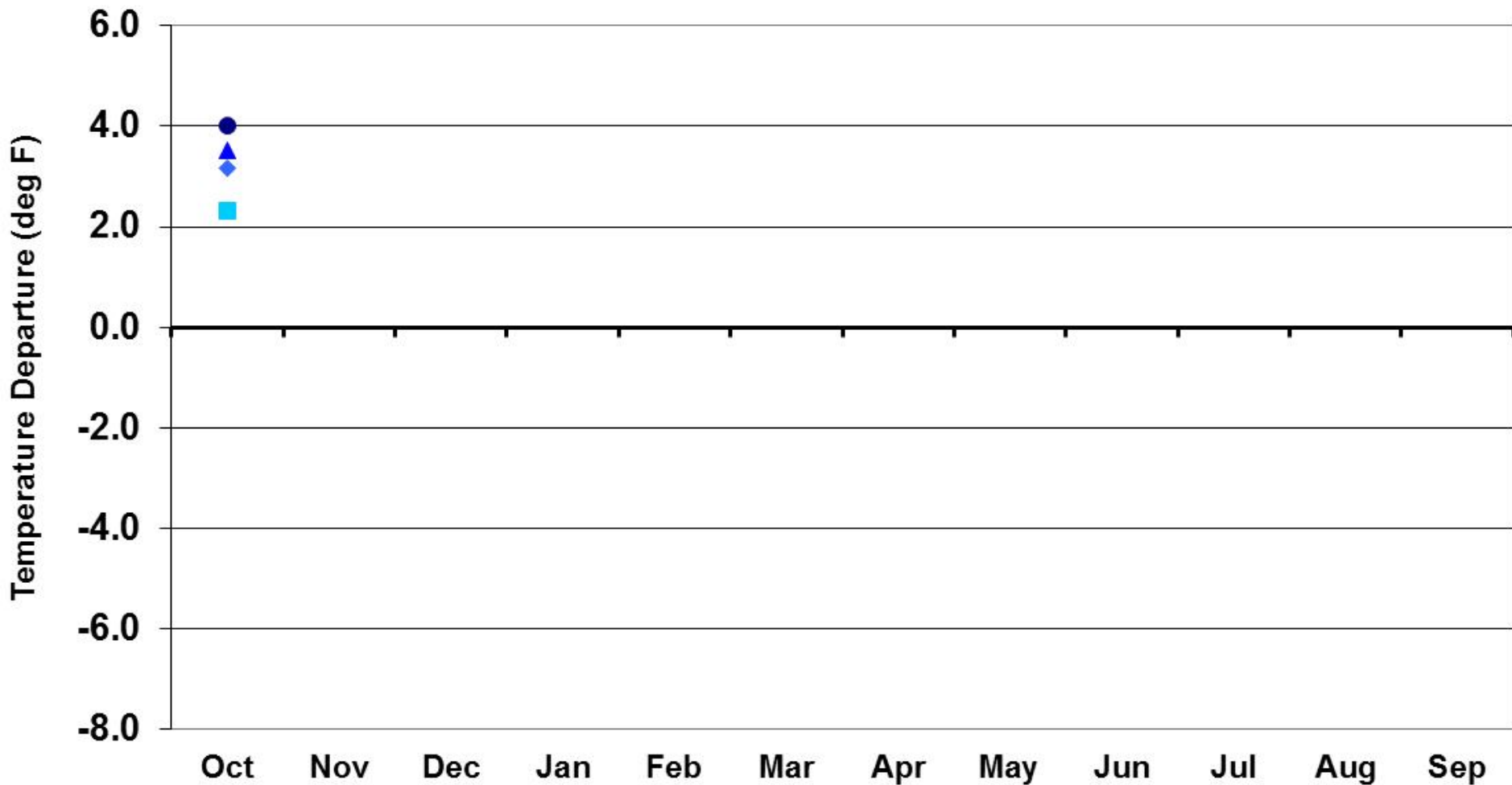
● Eastern Plains

▲ Foothills

◆ Mountains

■ Western Valleys

Water Year 2015 Temperature Departures



● Eastern Plains

▲ Foothills

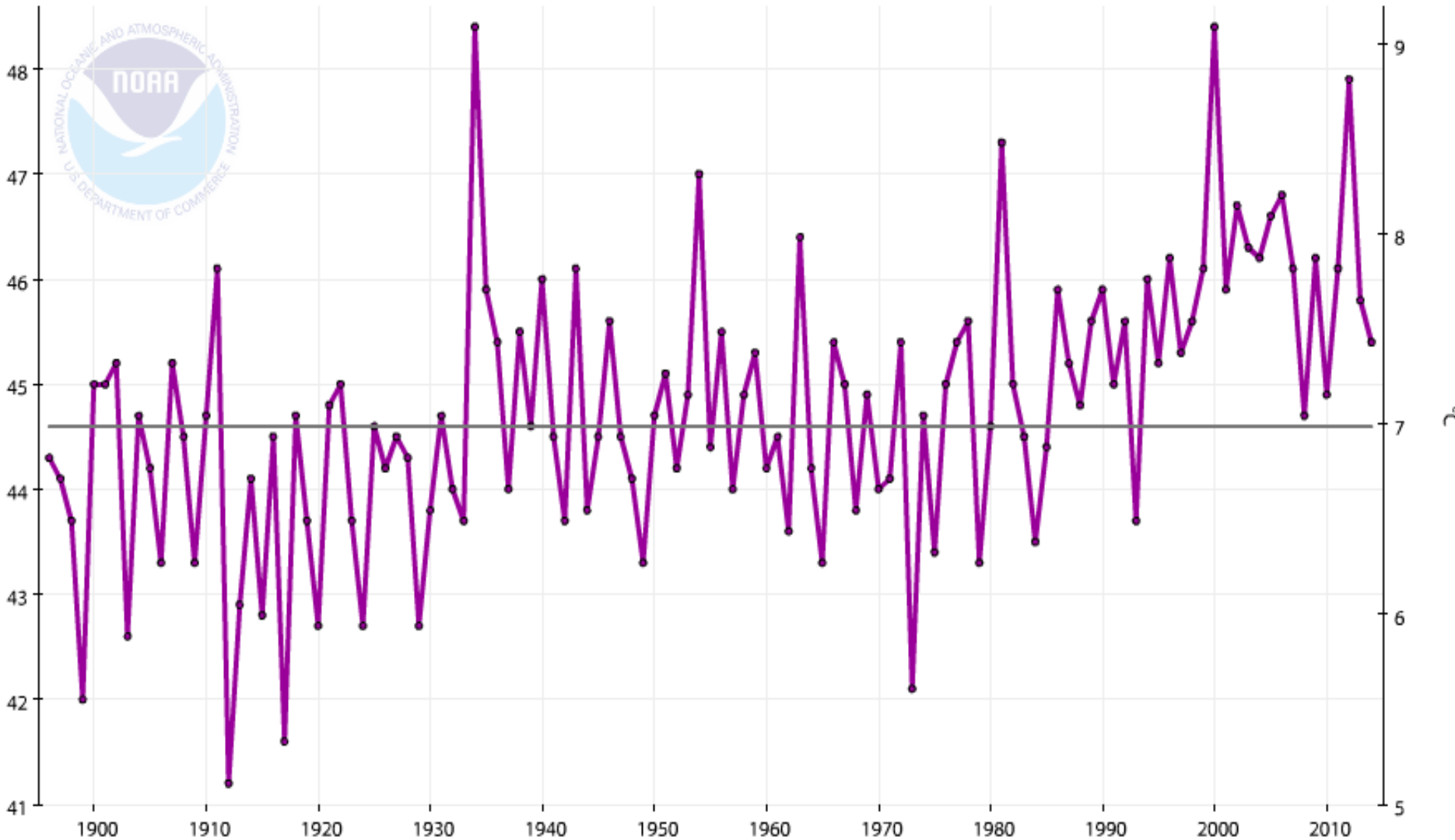
◆ Mountains

■ Western Valleys

WY 2014 Statewide Temperatures 1895-2013: 33rd Warmest

Colorado, Average Temperature, October-September

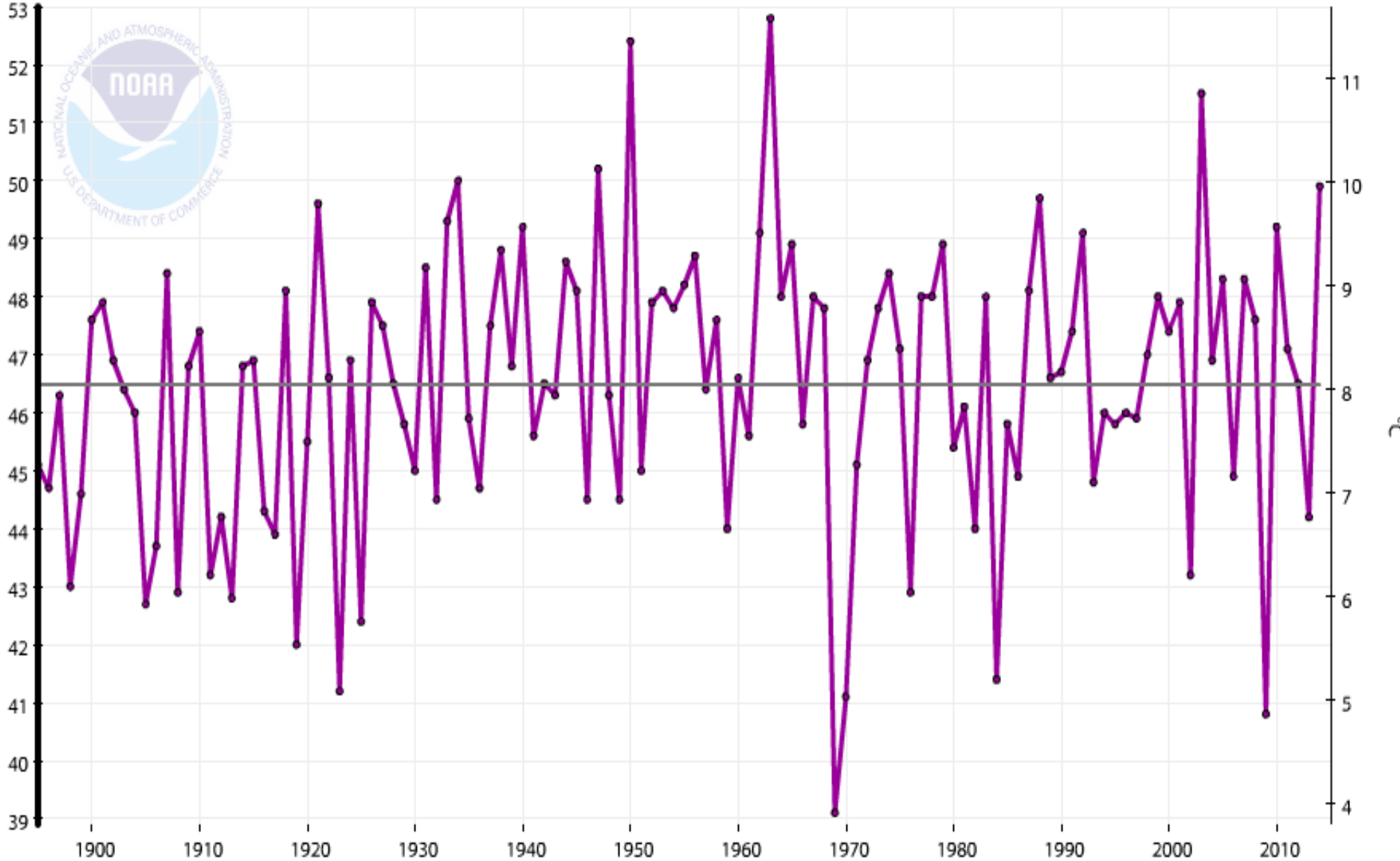
— 1901-2000 Avg: 44.6°F —●— Avg Temperature



October Average Temperature History for Colorado (NCDC)

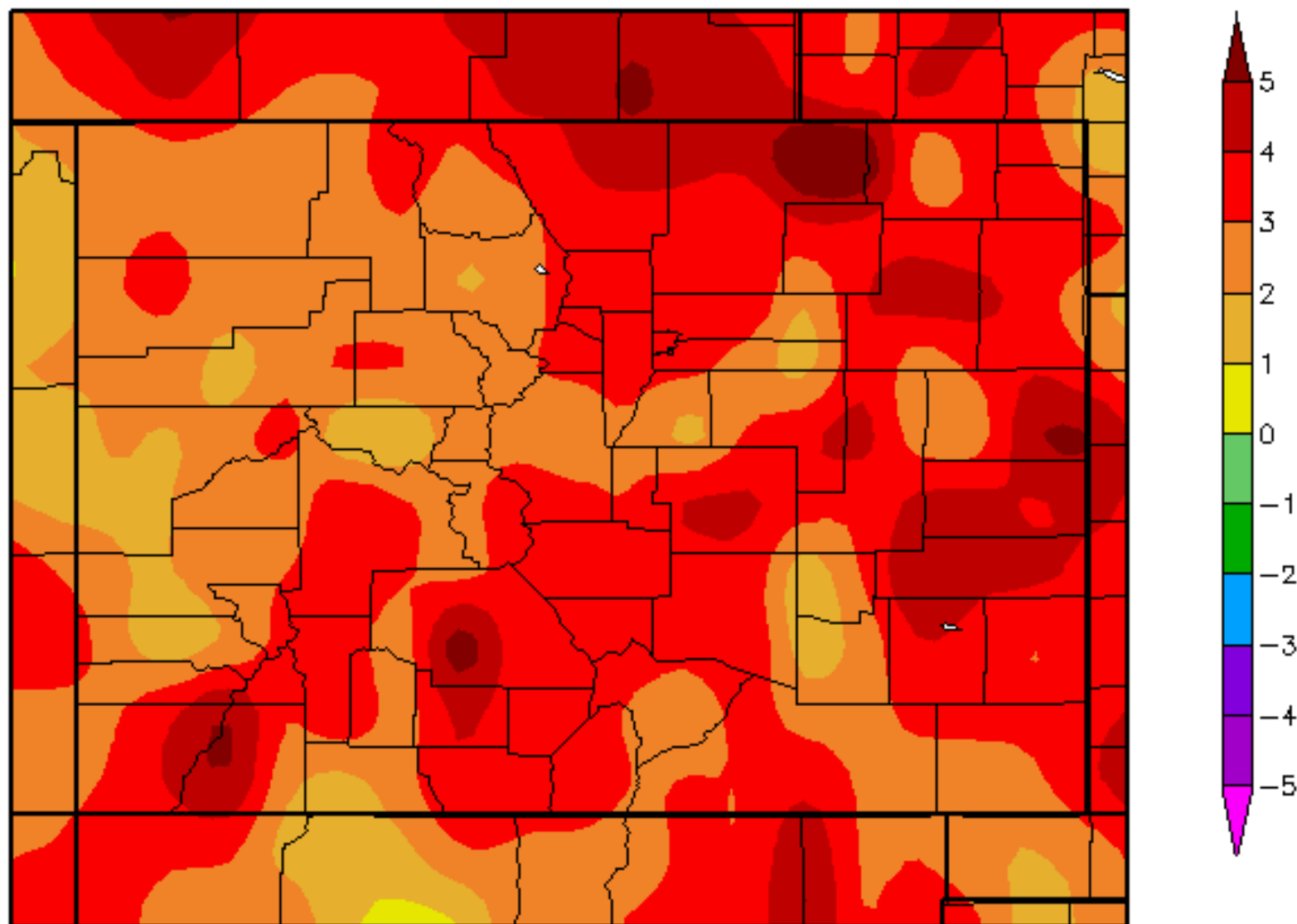
Colorado, Average Temperature, October
— 1901-2000 Avg: 46.5°F
—●— Avg Temperature

49.9°F ranks as the 6th warmest (1895-2014)



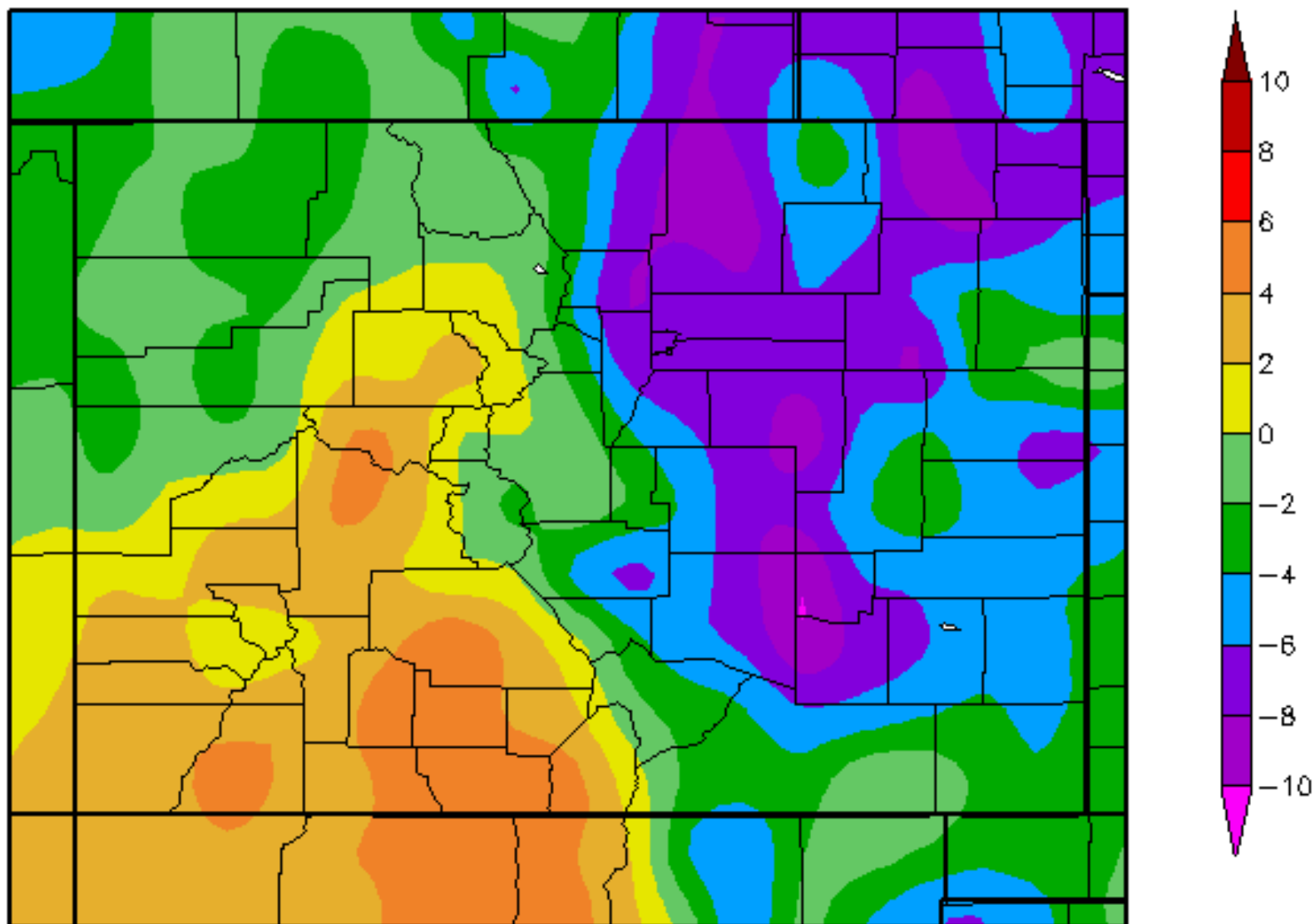
Departure from Normal Temperature (F)

10/1/2014 - 10/31/2014

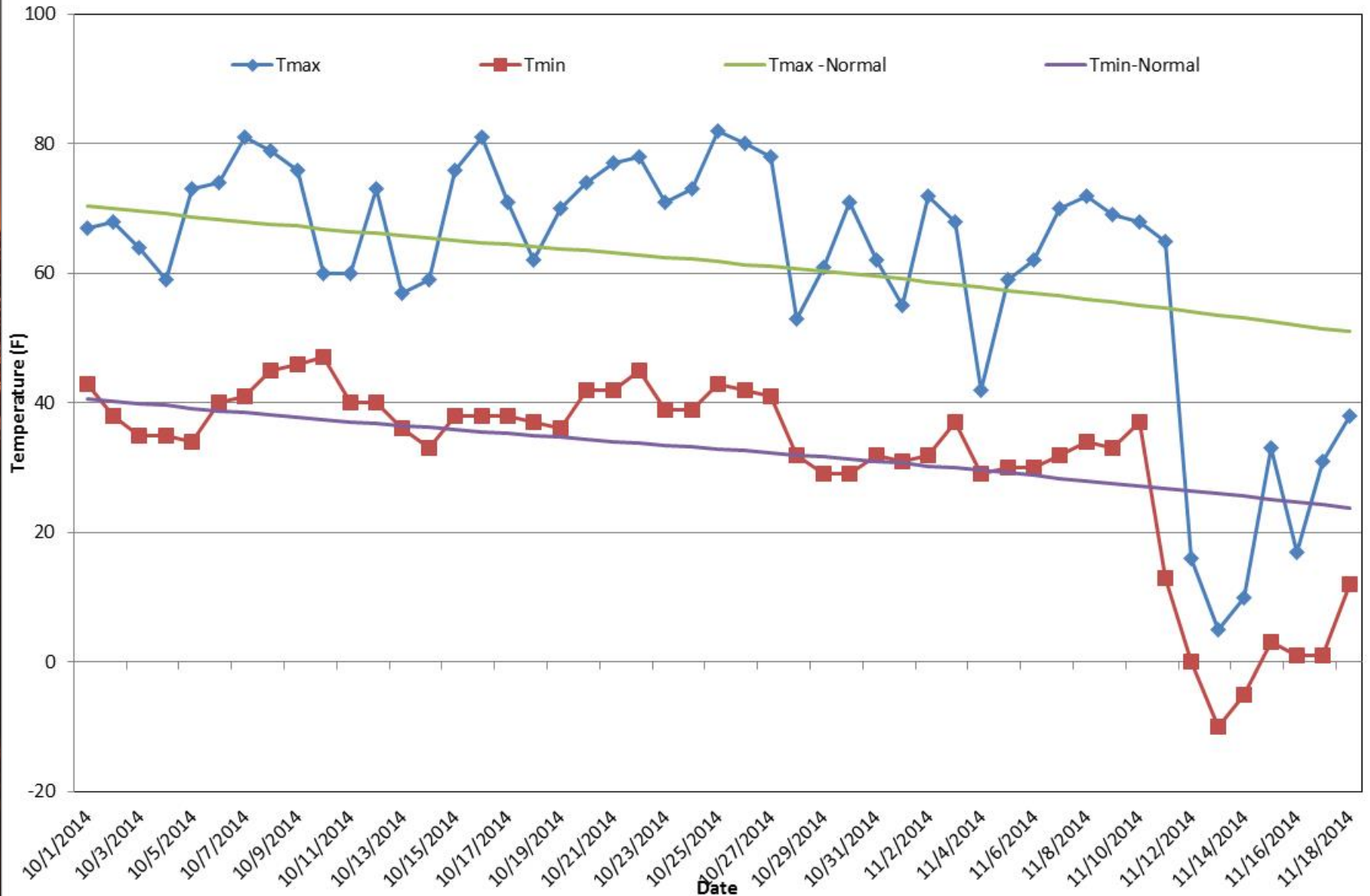


Departure from Normal Temperature (F)

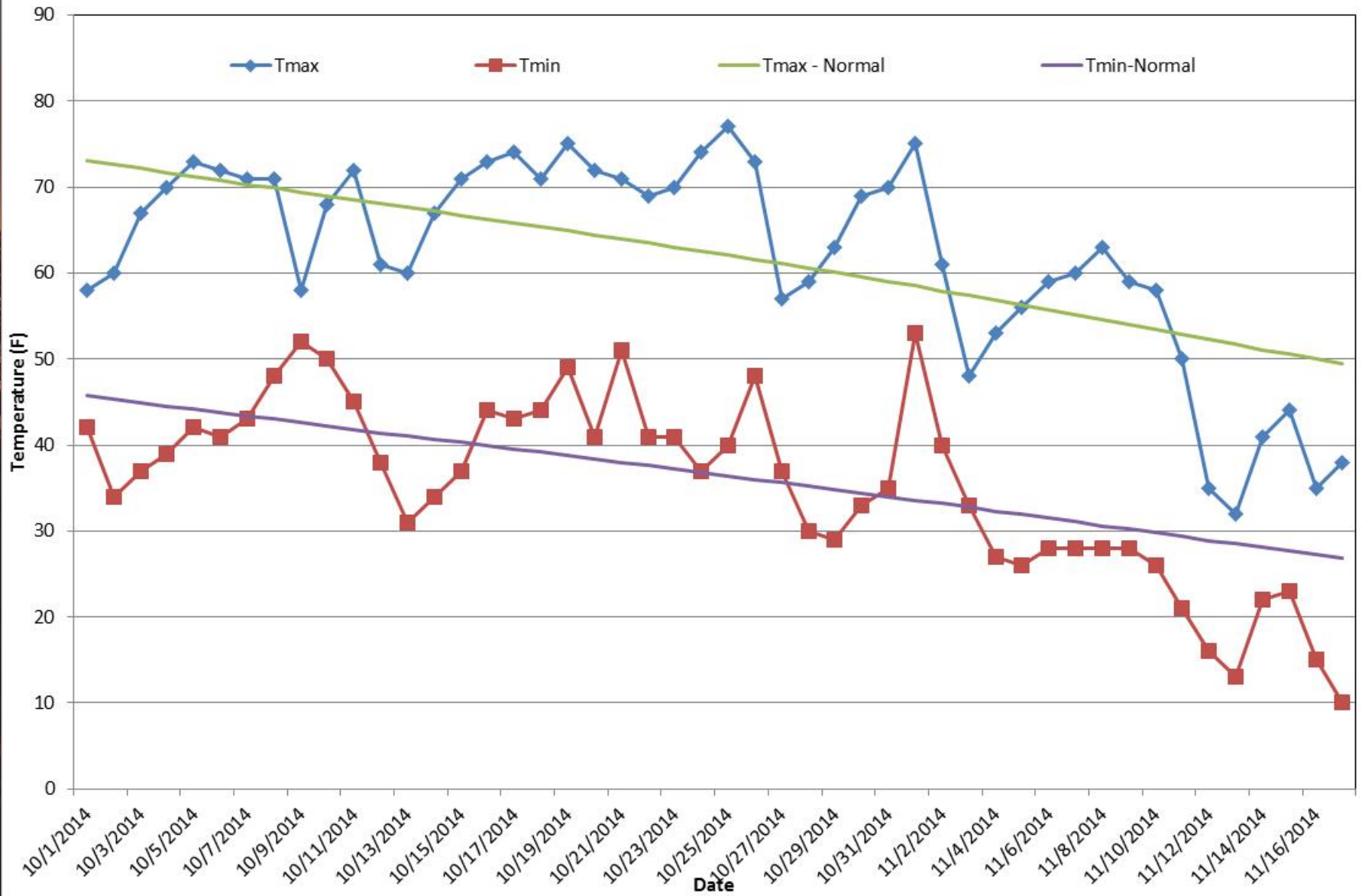
11/1/2014 - 11/16/2014



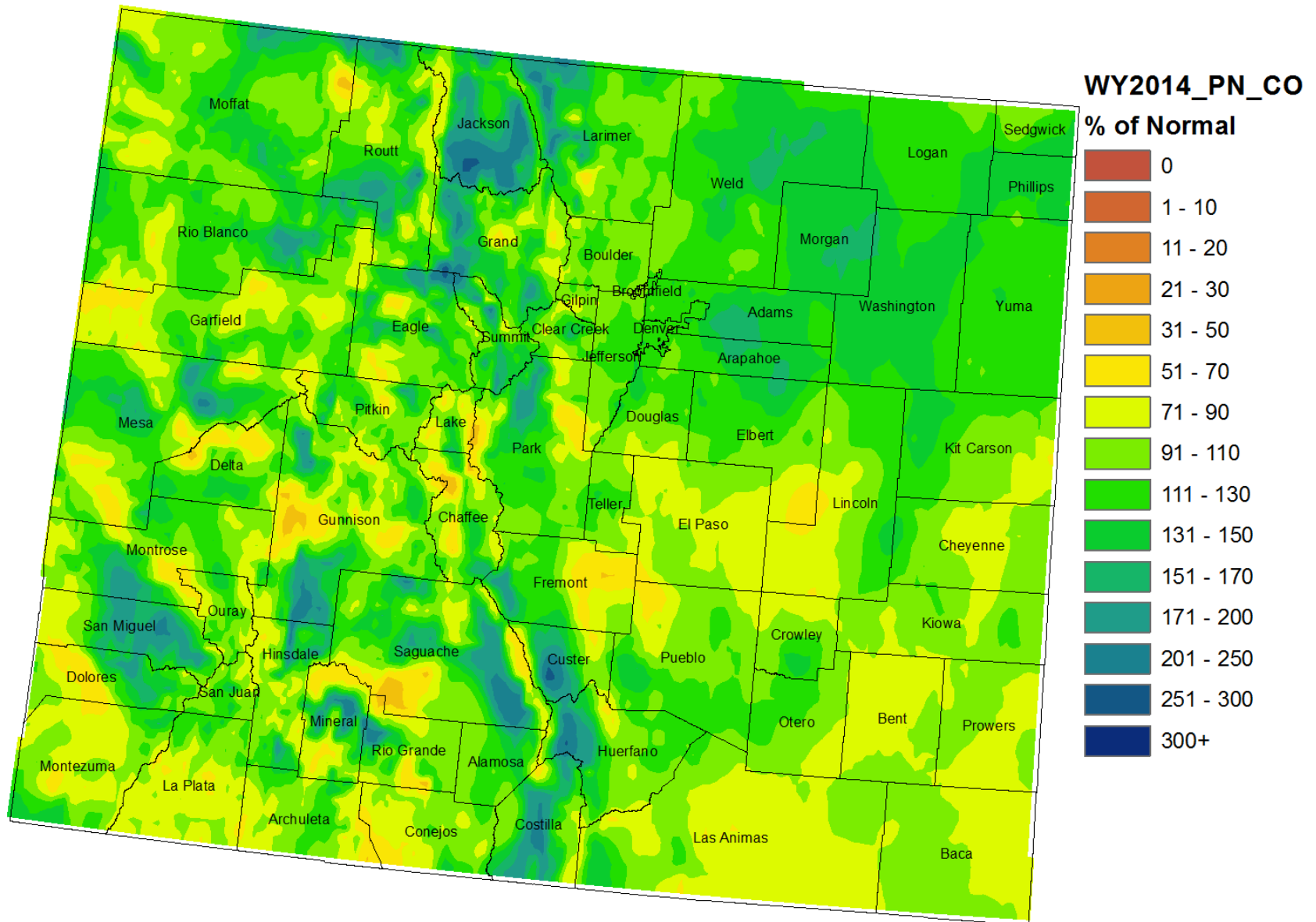
Denver-Stapleton Temperatures Oct 2014-Current



Grand Junction Temperatures Oct 2014-Current



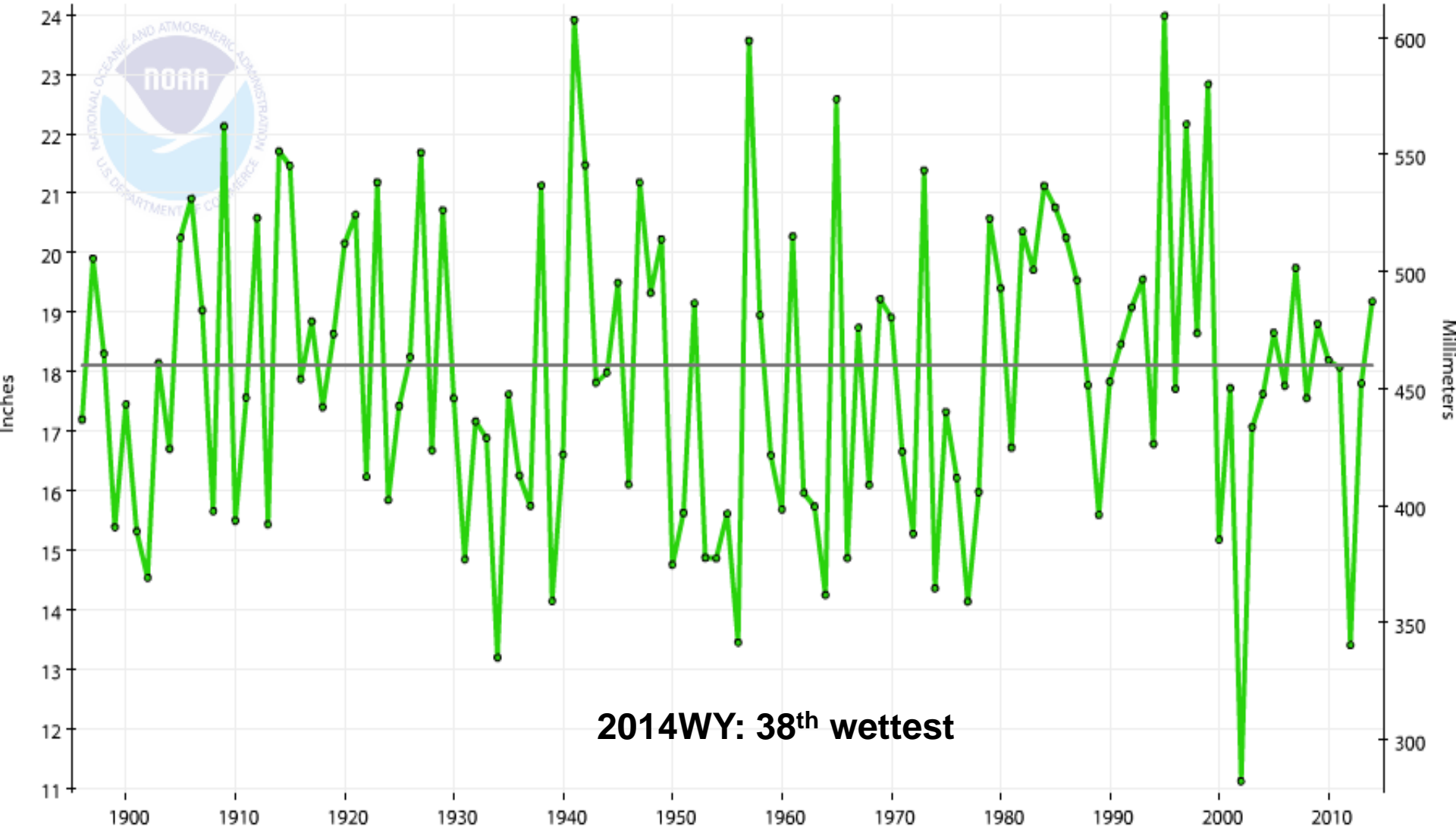
Colorado Water Year 2014 Precipitation as a Percentage of Normal



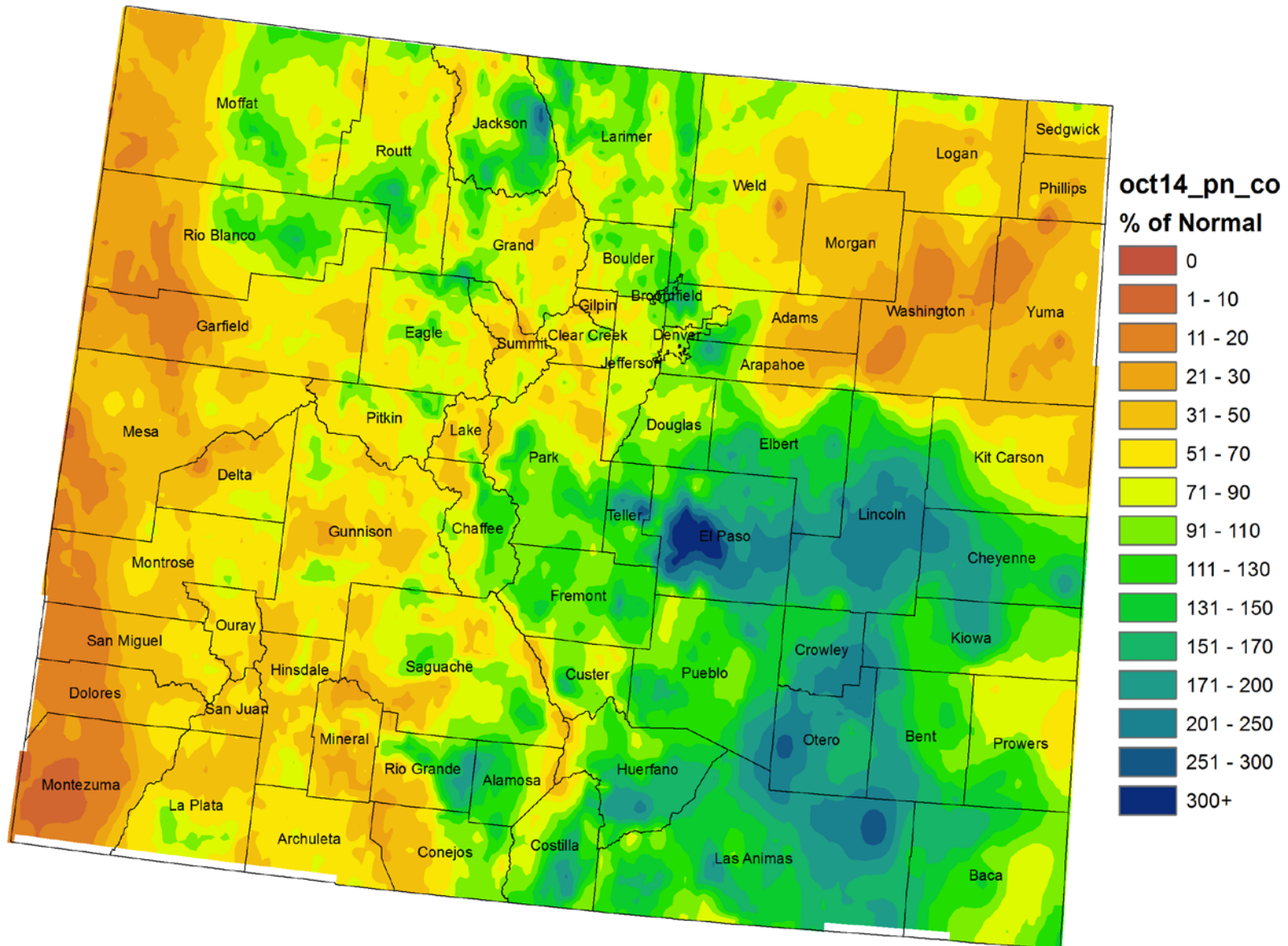
Water Year 2014 Precipitation

Colorado, Precipitation, October-September

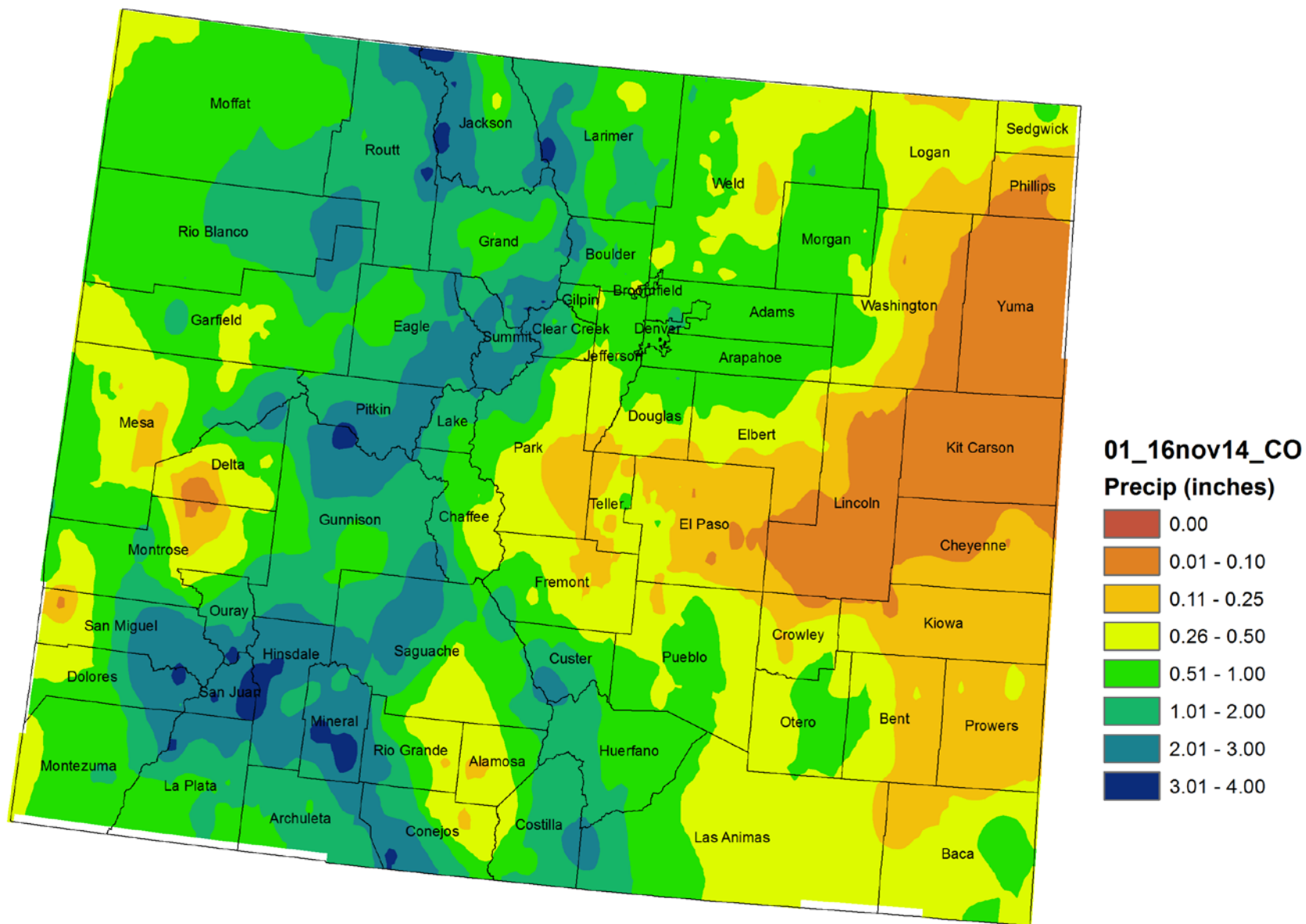
— 1901-2000 Avg: 18.10" —●— Precip



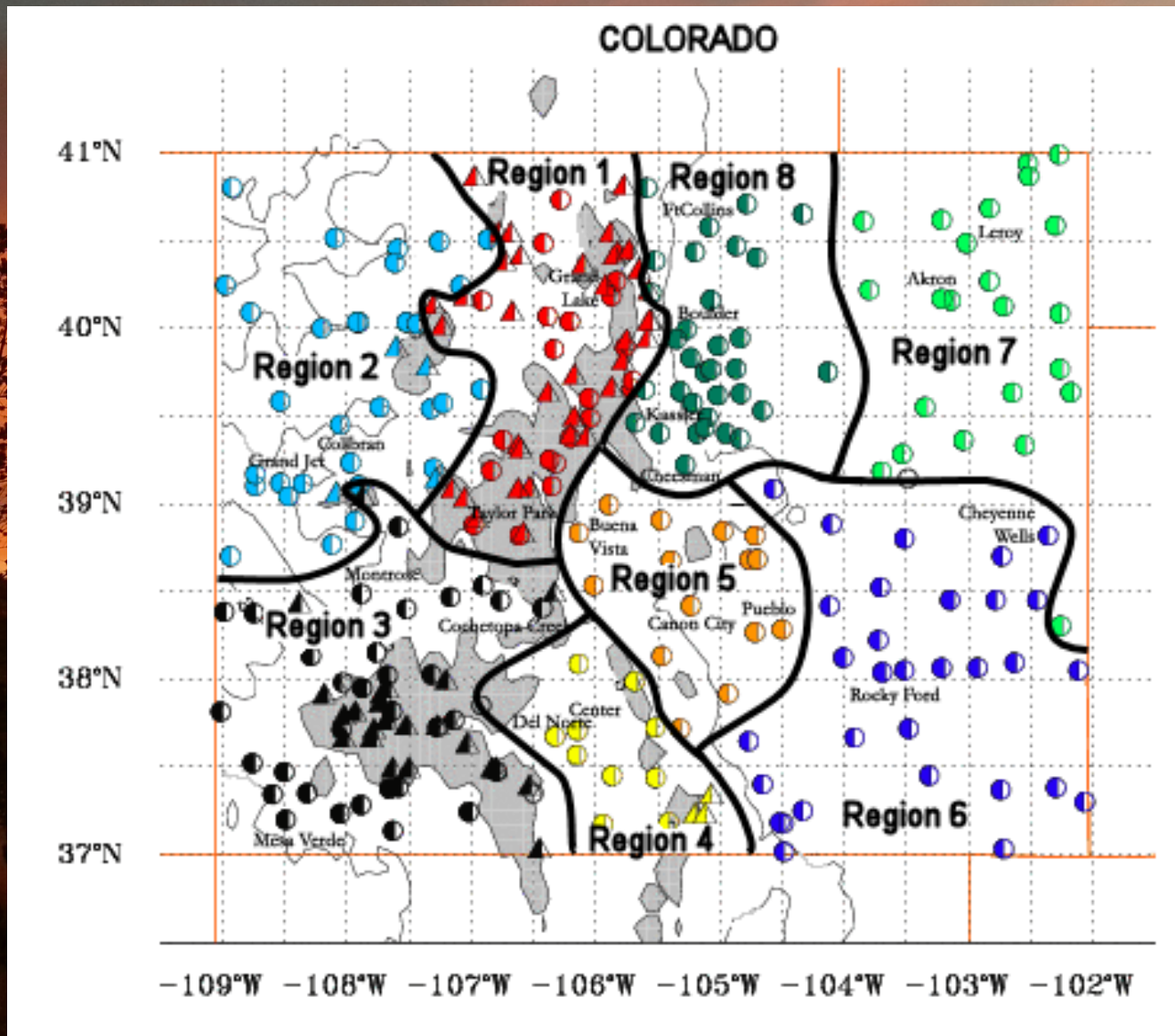
Colorado October 2014 Precipitation as a Percentage of Normal



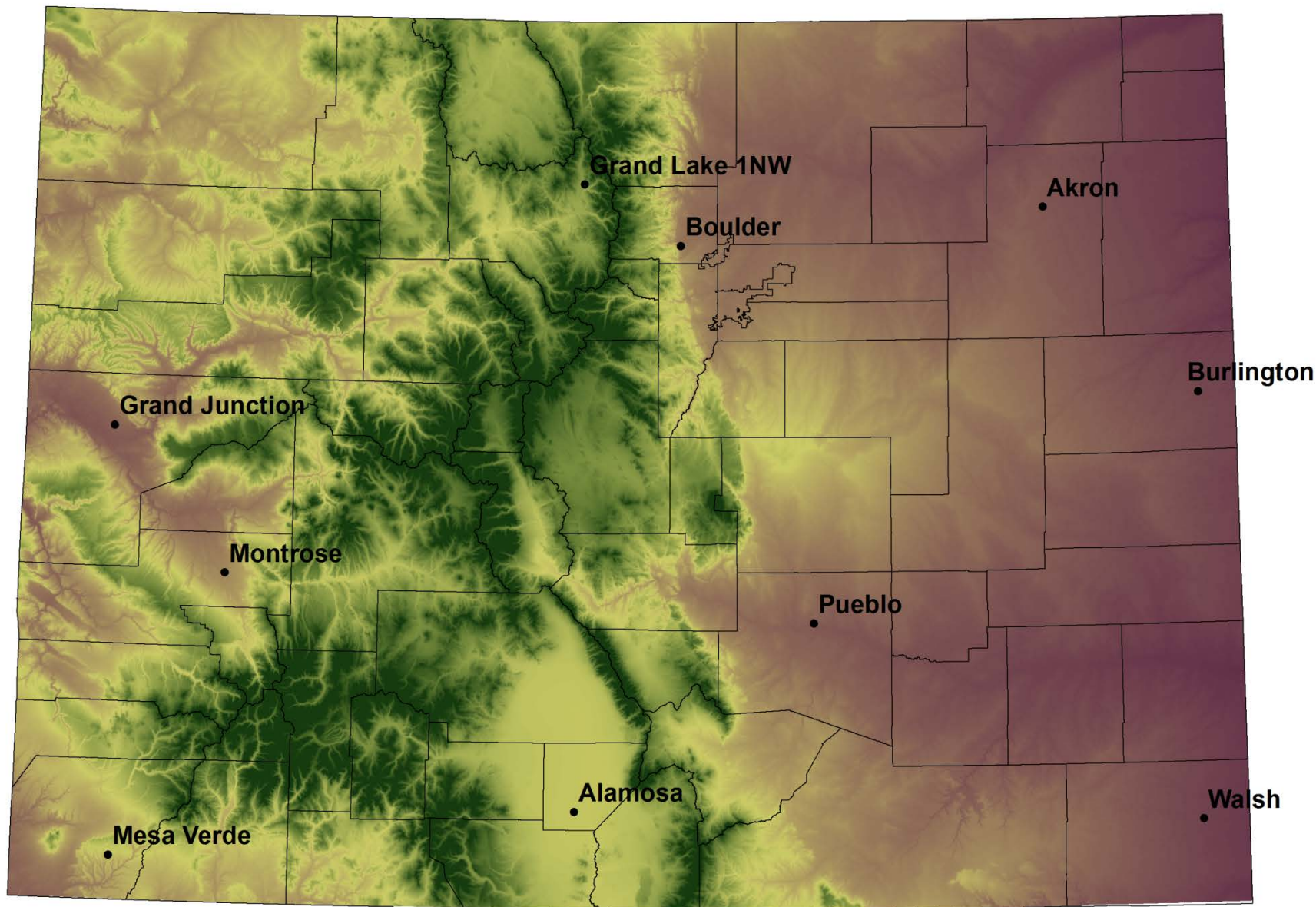
Colorado Month to Date Precipitation 1 - 16 November 2014



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

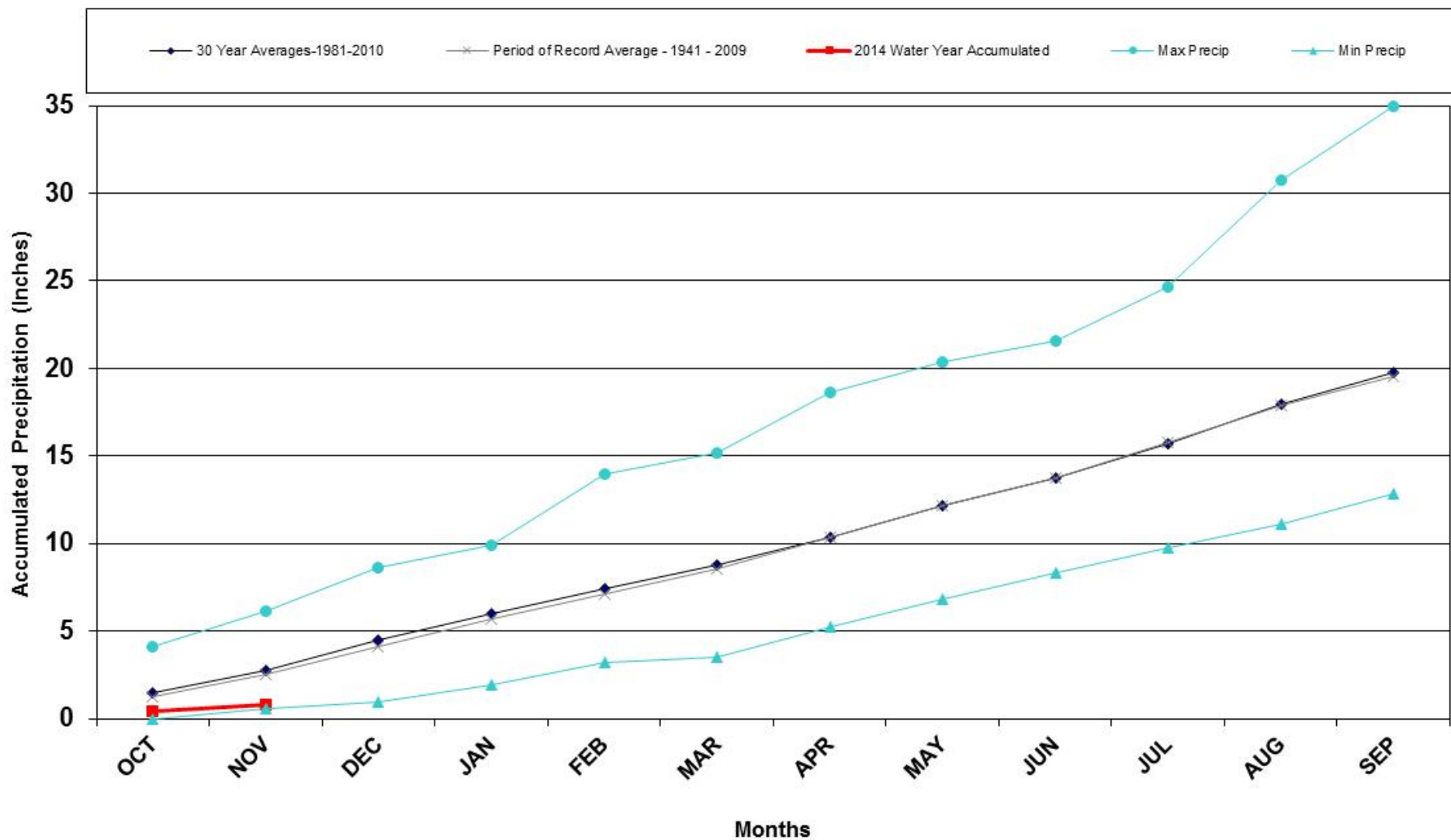


NWS Cooperative Stations for WATF



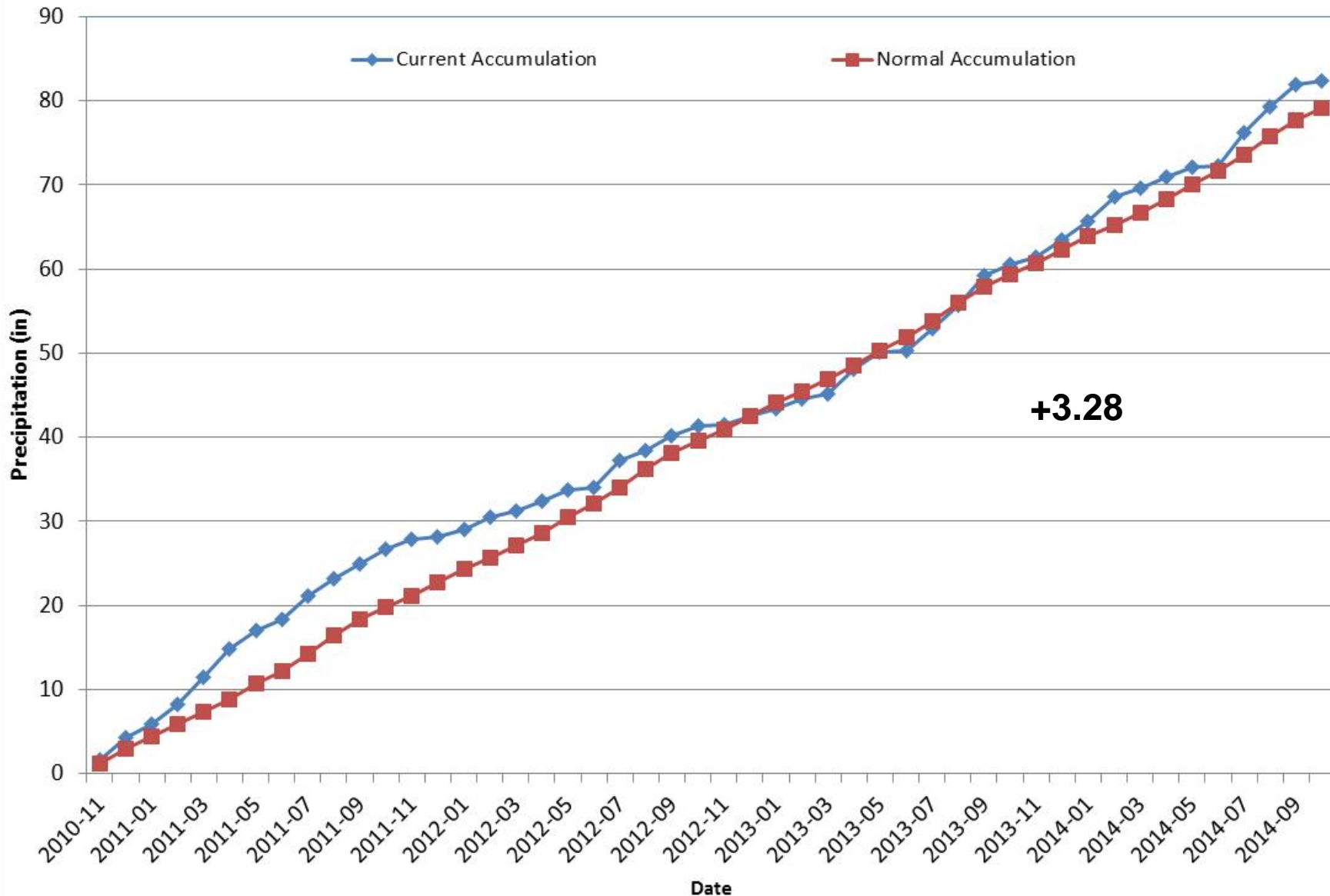
Division 1 – Grand Lake 1NW

Grand Lake 1 NW 2015 Water Year



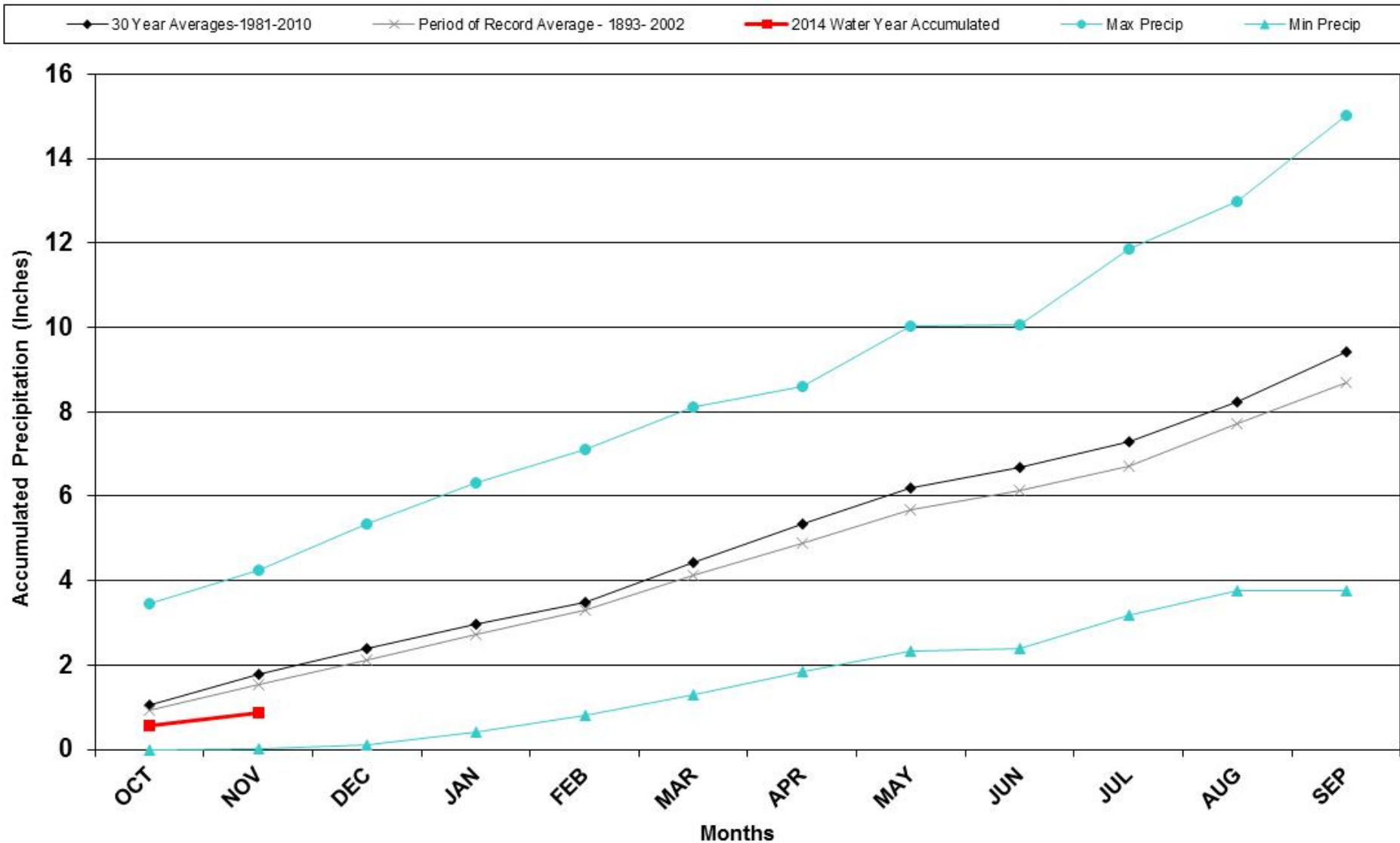
Division 1 – Grand Lake 1NW

Grand Lake 1NW Precipitation Accumulation



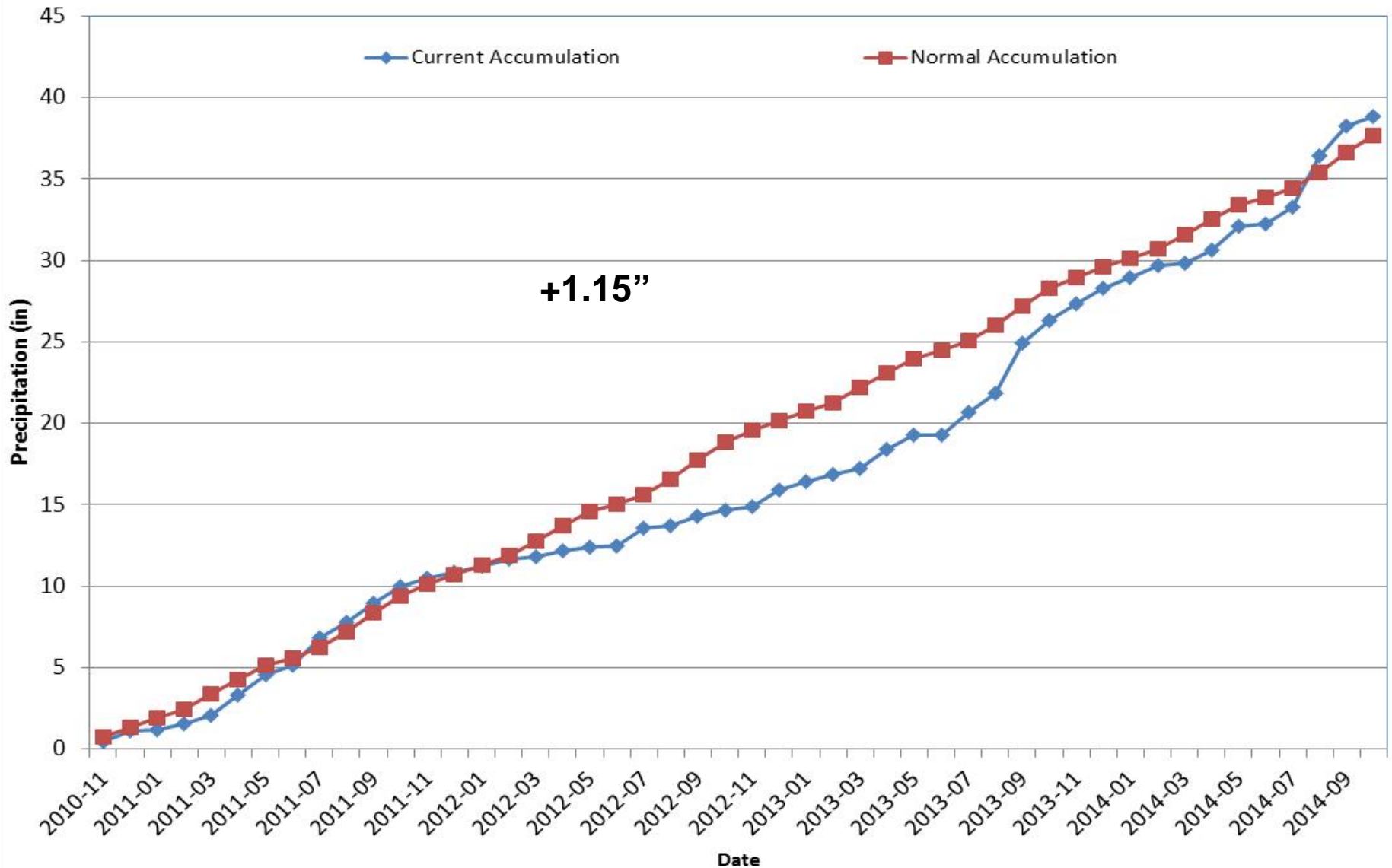
Division 2 – Grand Junction

Grand Junction WSFO 2015 Water Year



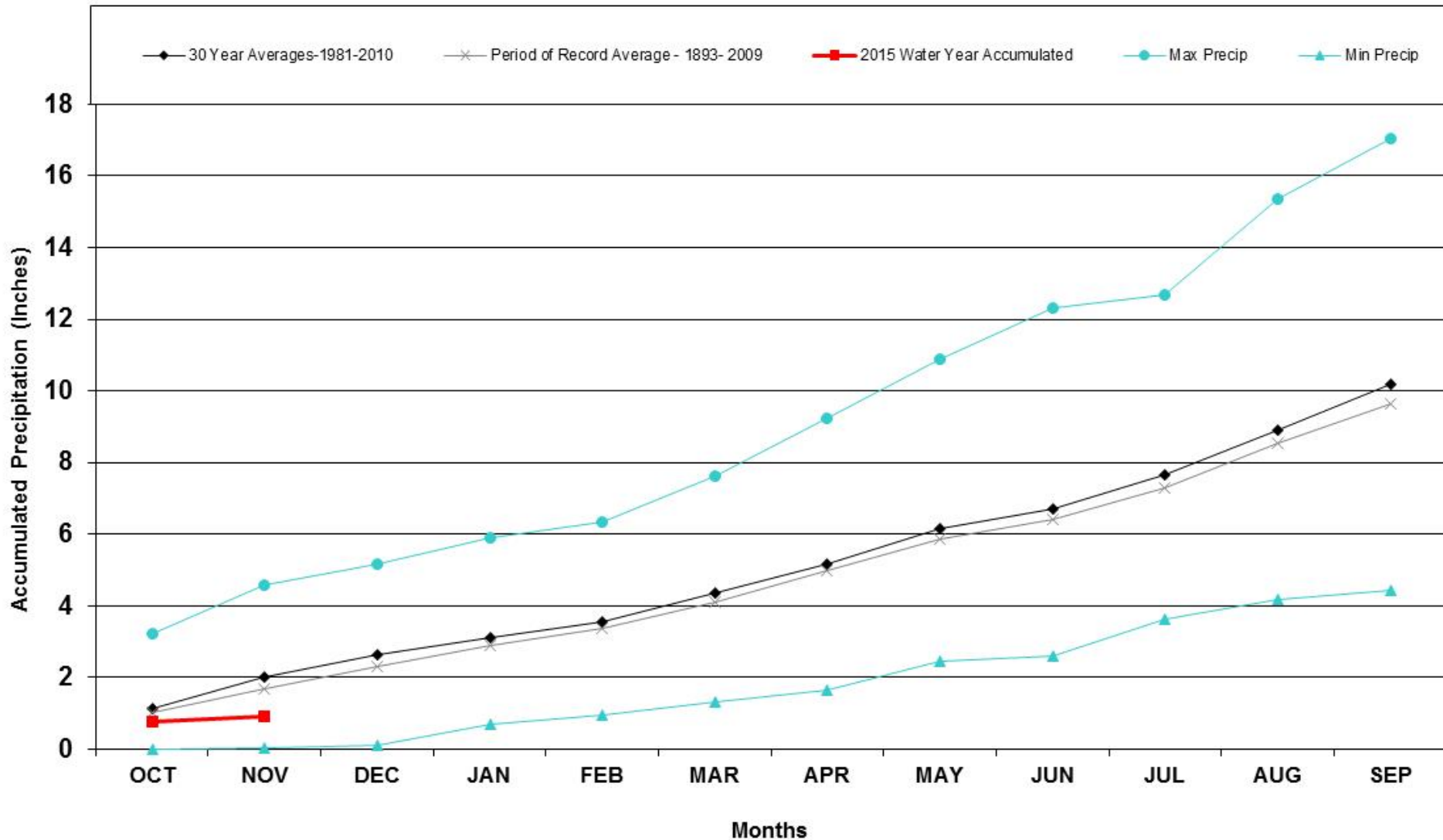
Division 2 – Grand Junction

Grand Junction Precipitation Accumulation



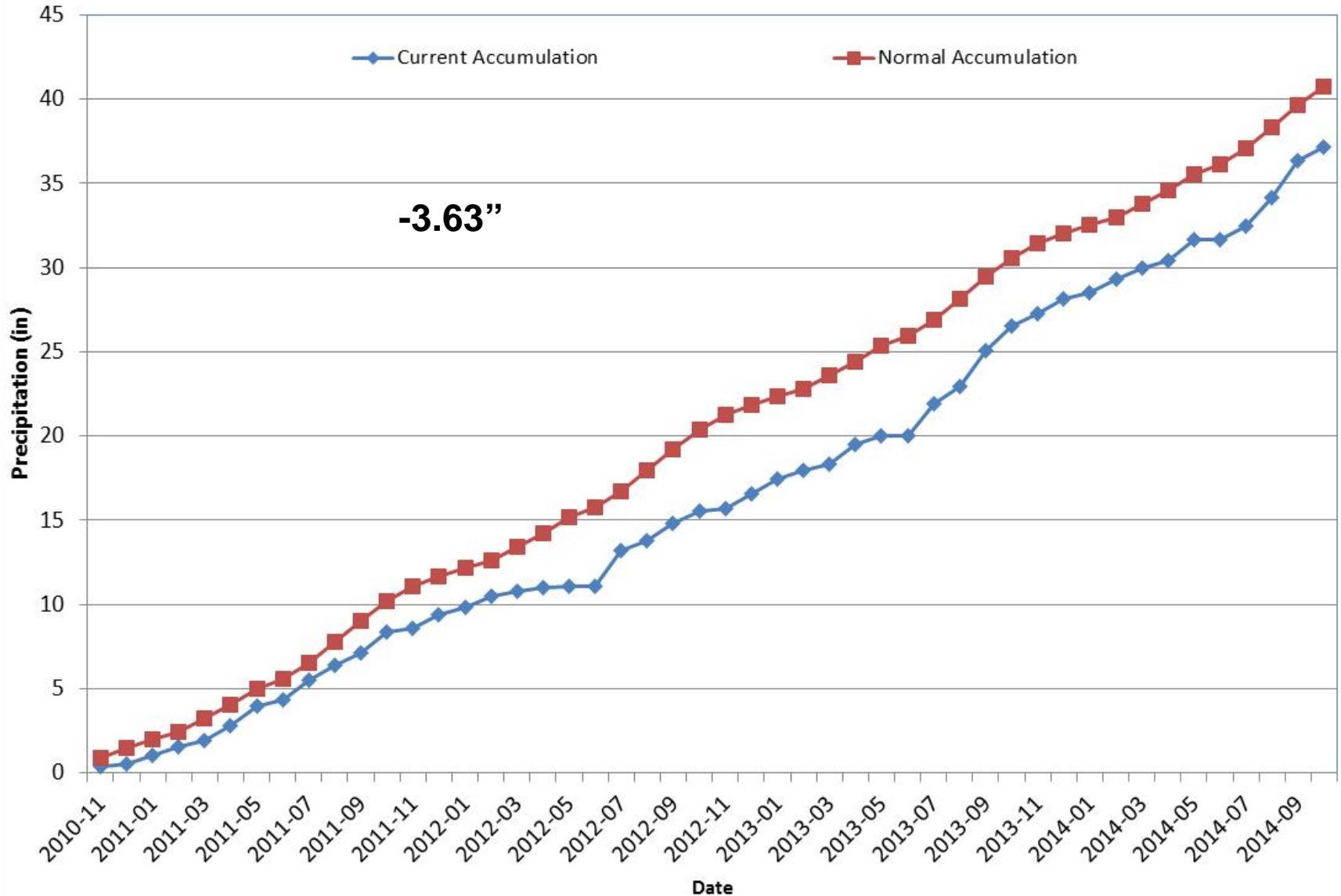
Division 3 – Montrose

Montrose #2 2015 Water Year



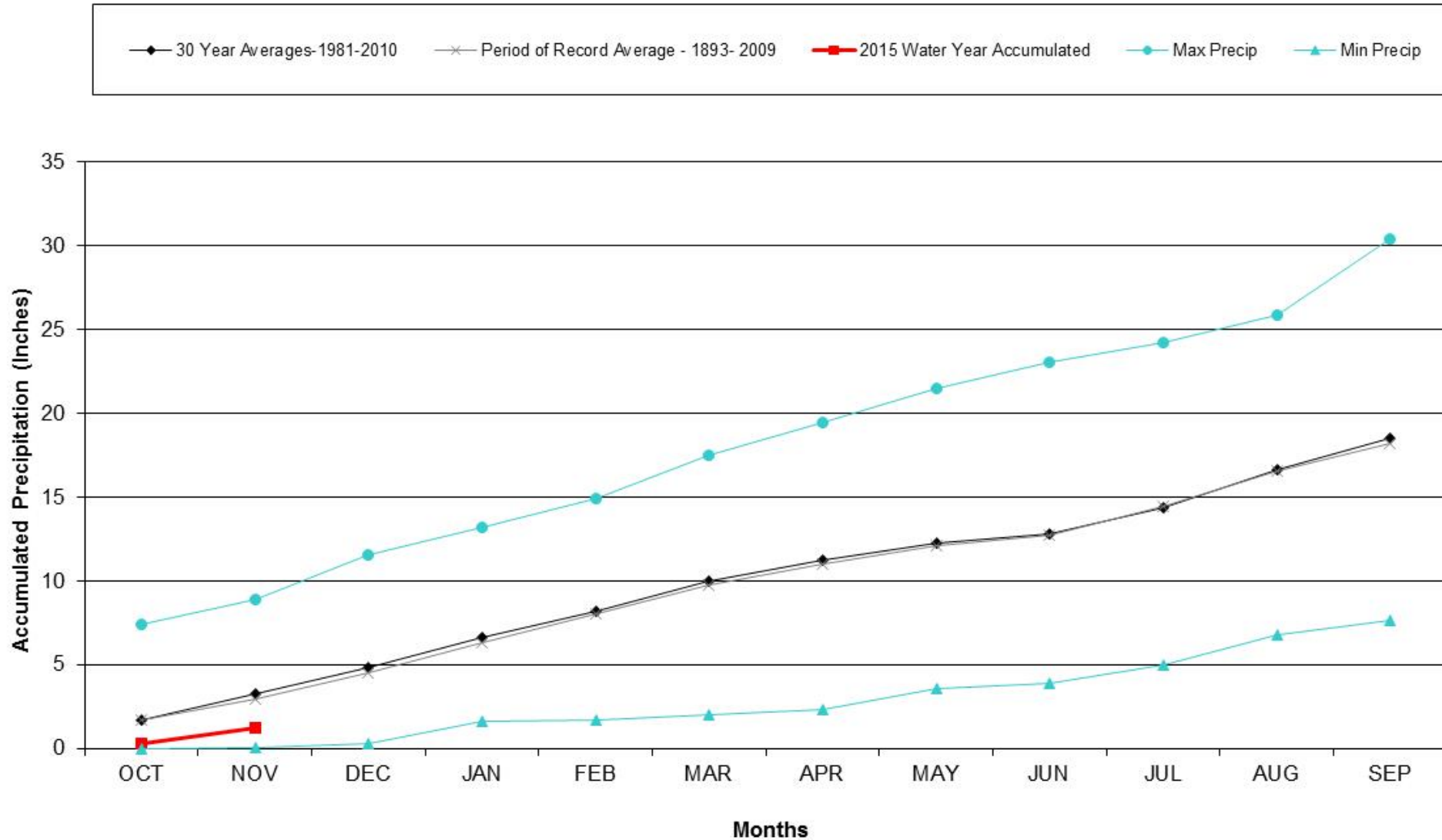
Division 3 – Montrose

Montrose #2 Precipitation Accumulation



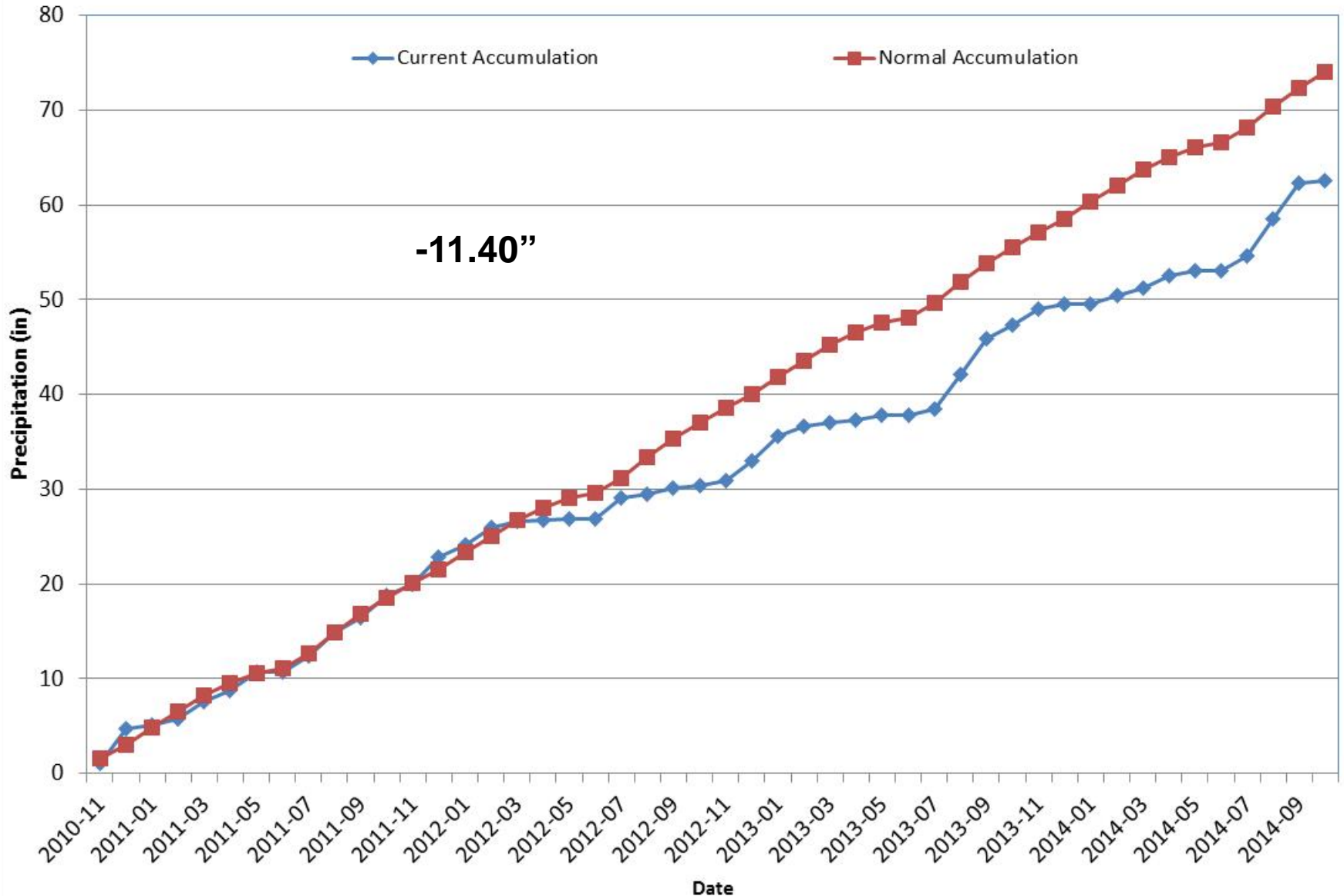
Division 3 – Mesa Verde NP

Mesa Verde NP 2015 Water Year



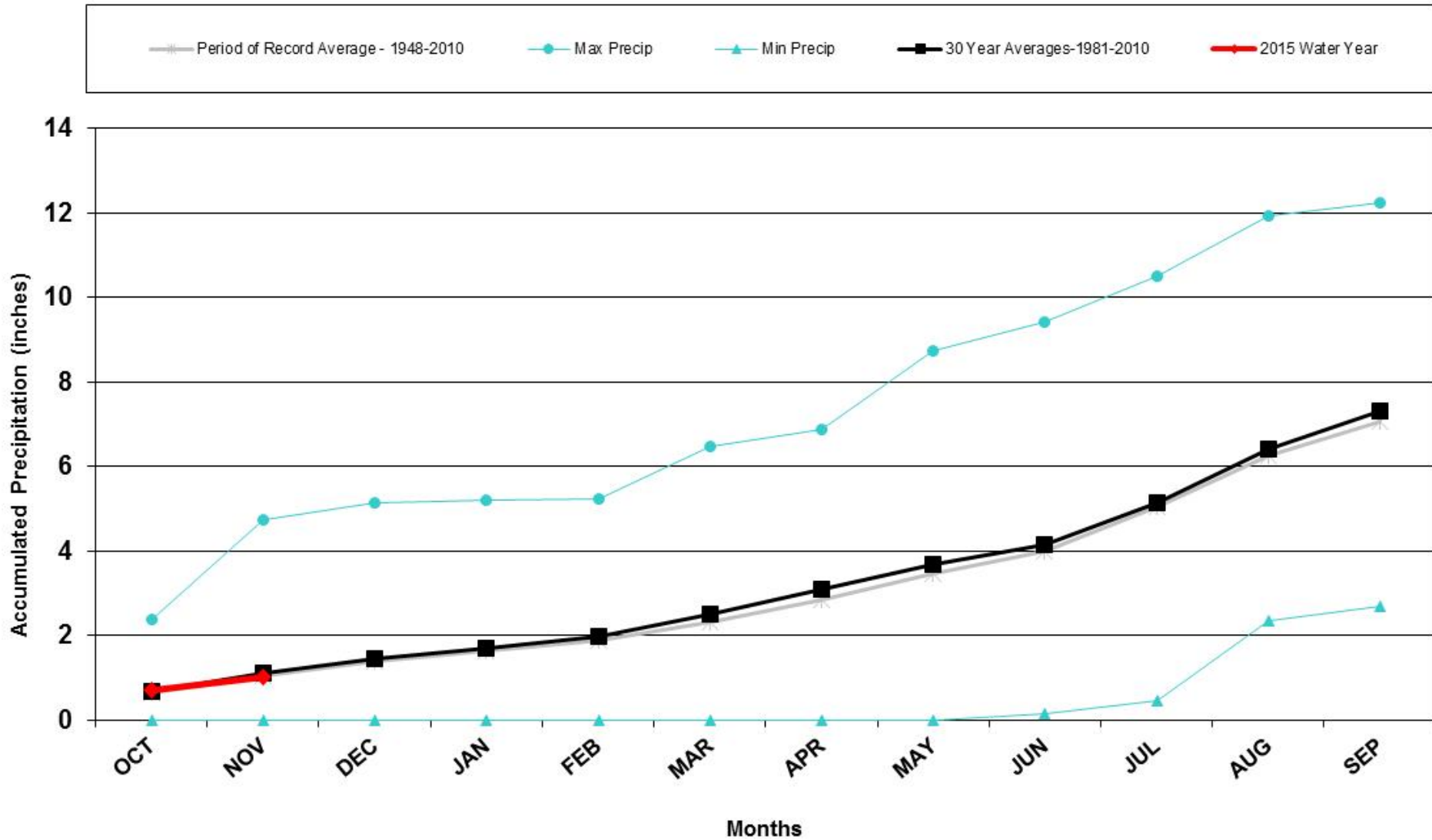
Division 3 – Mesa Verde NP

Mesa Verde NP Precipitation Accumulation



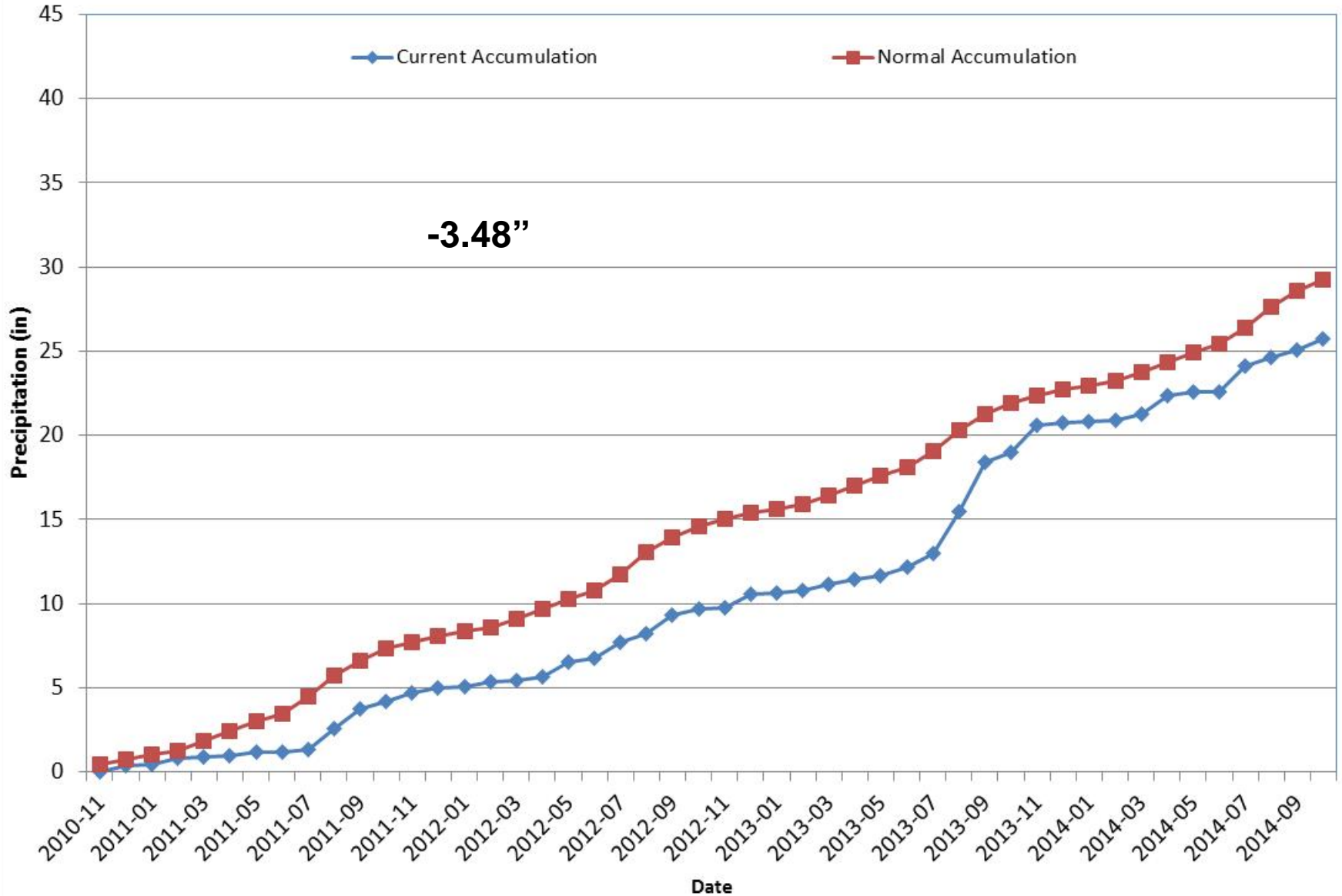
Division 4 – Alamosa

Alamosa WSO 2015 Water Year



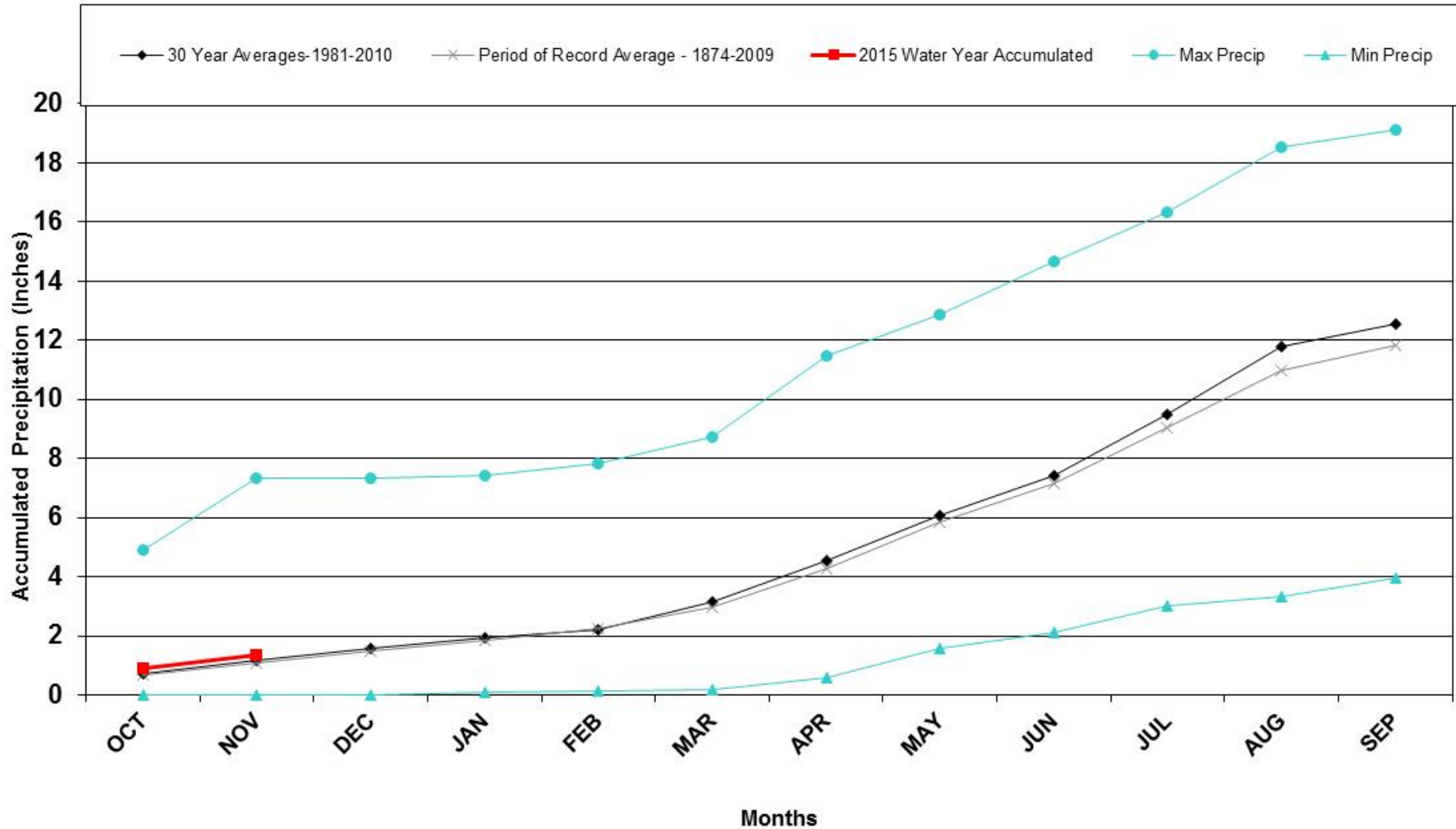
Division 4 – Alamosa

Alamosa WSO Precipitation Accumulation



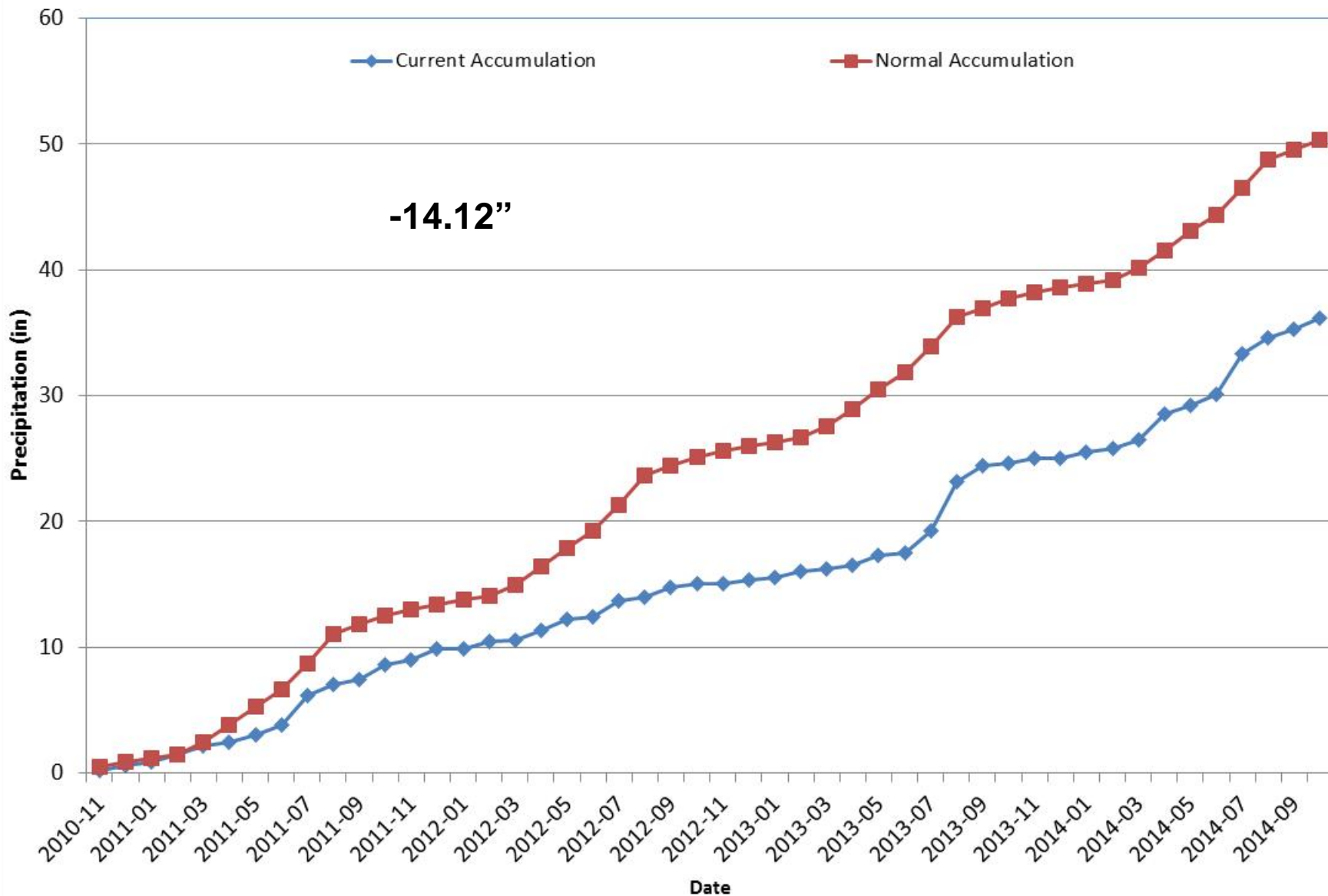
Division 5 – Pueblo

Pueblo WSO 2015 Water Year



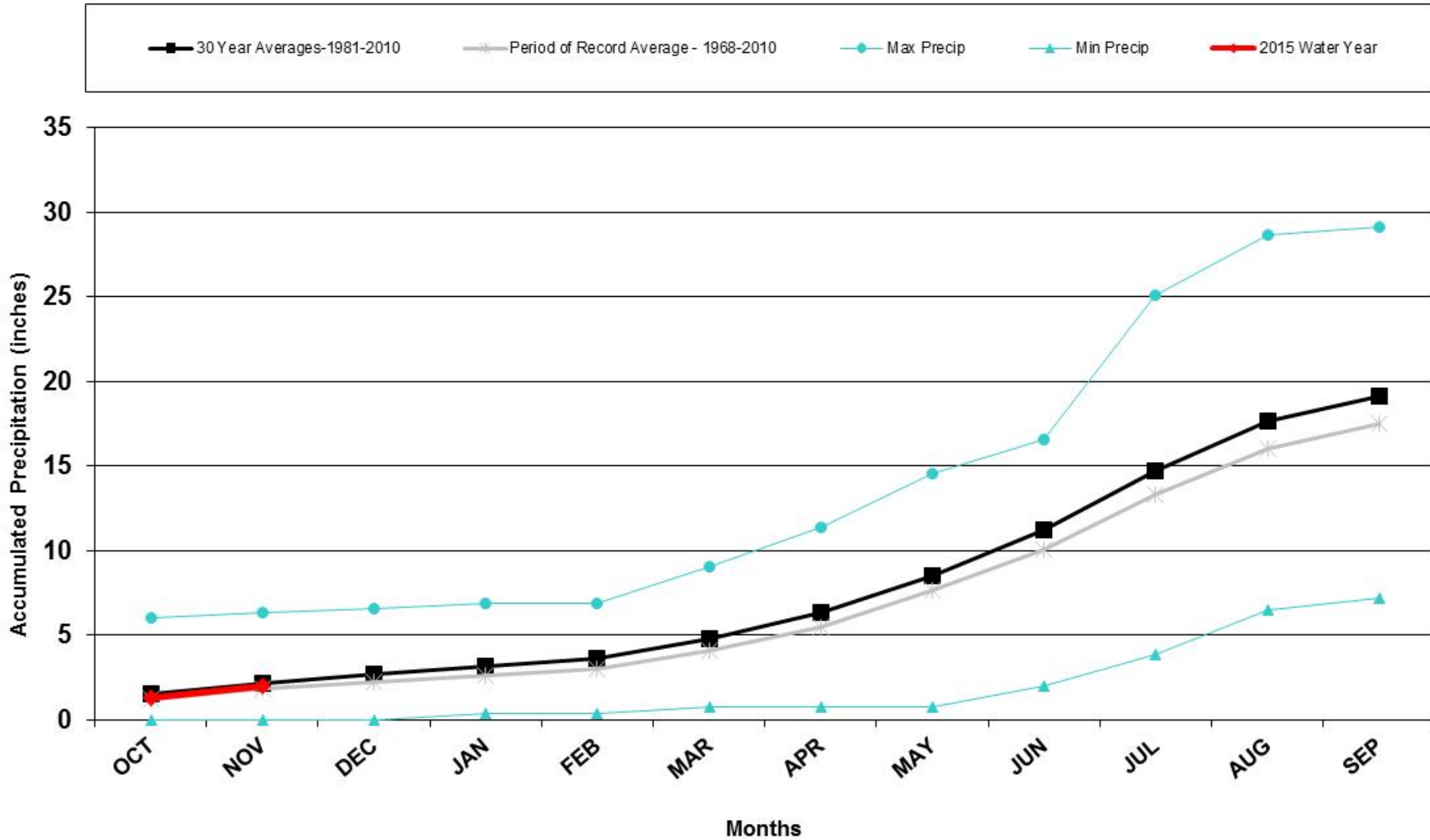
Division 5 – Pueblo

Pueblo Memorial AP Precipitation Accumulation



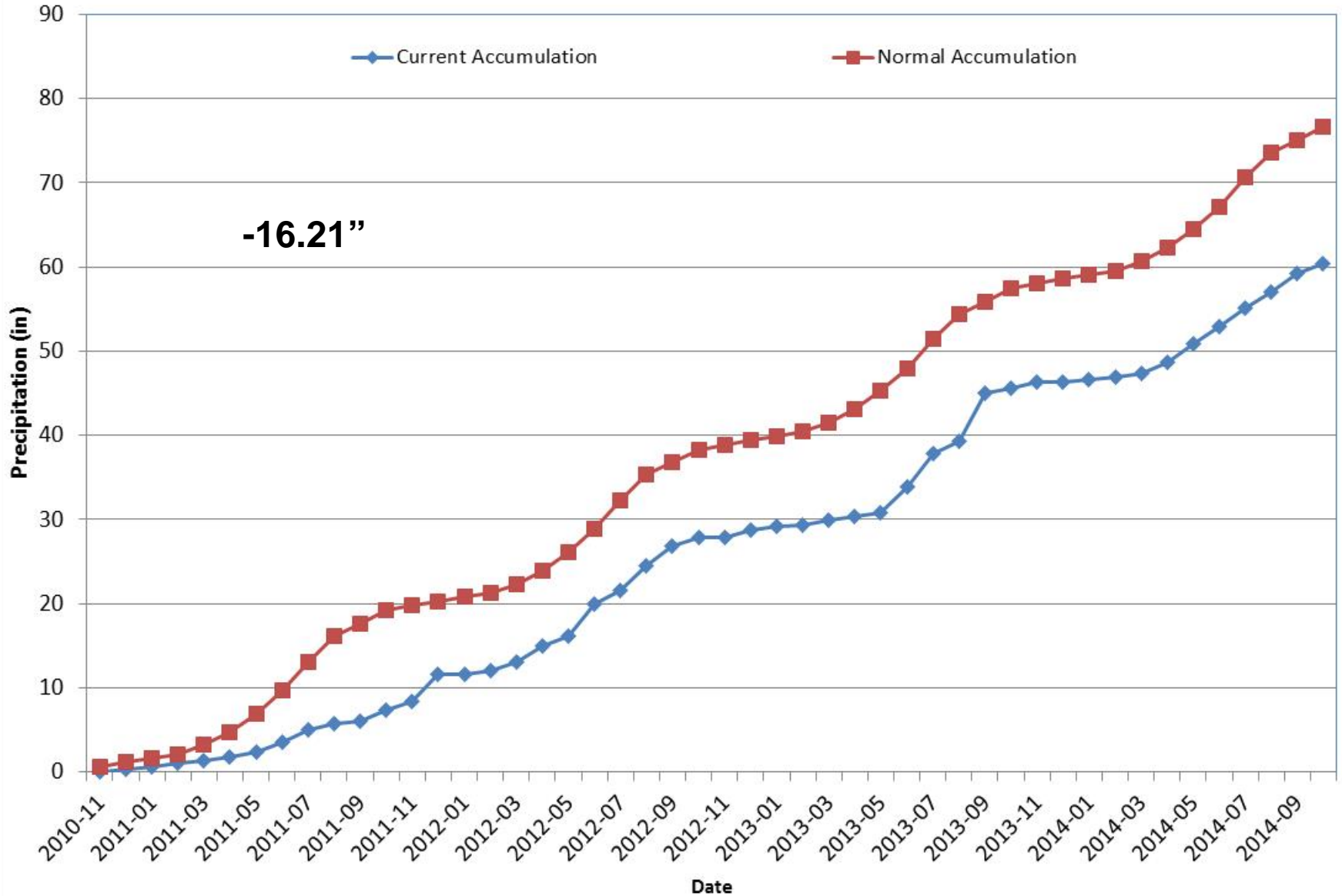
Division 6 - Walsh

Walsh 2015 Water Year



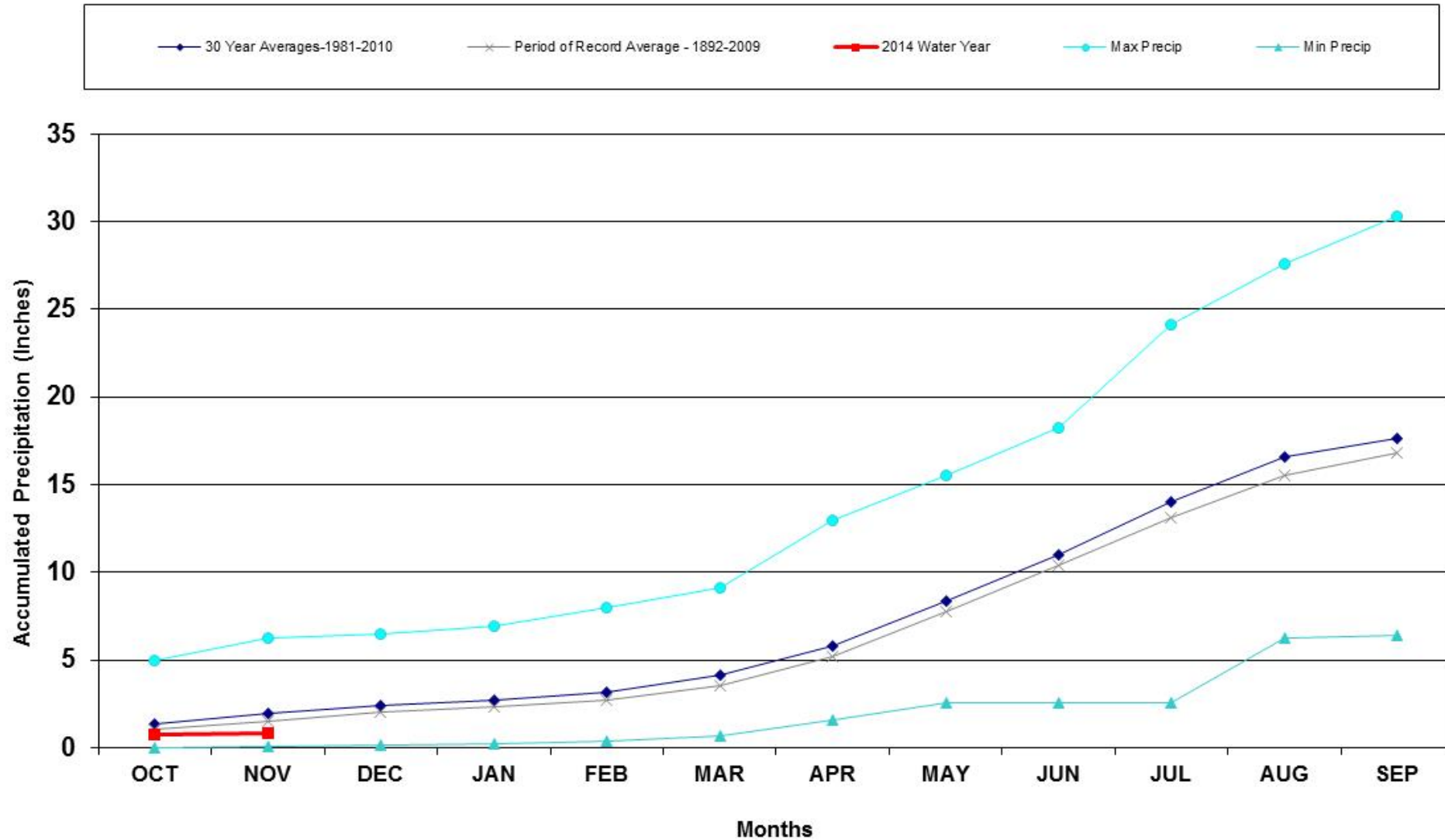
Division 6 - Walsh

Walsh 1W Precipitation Accumulation



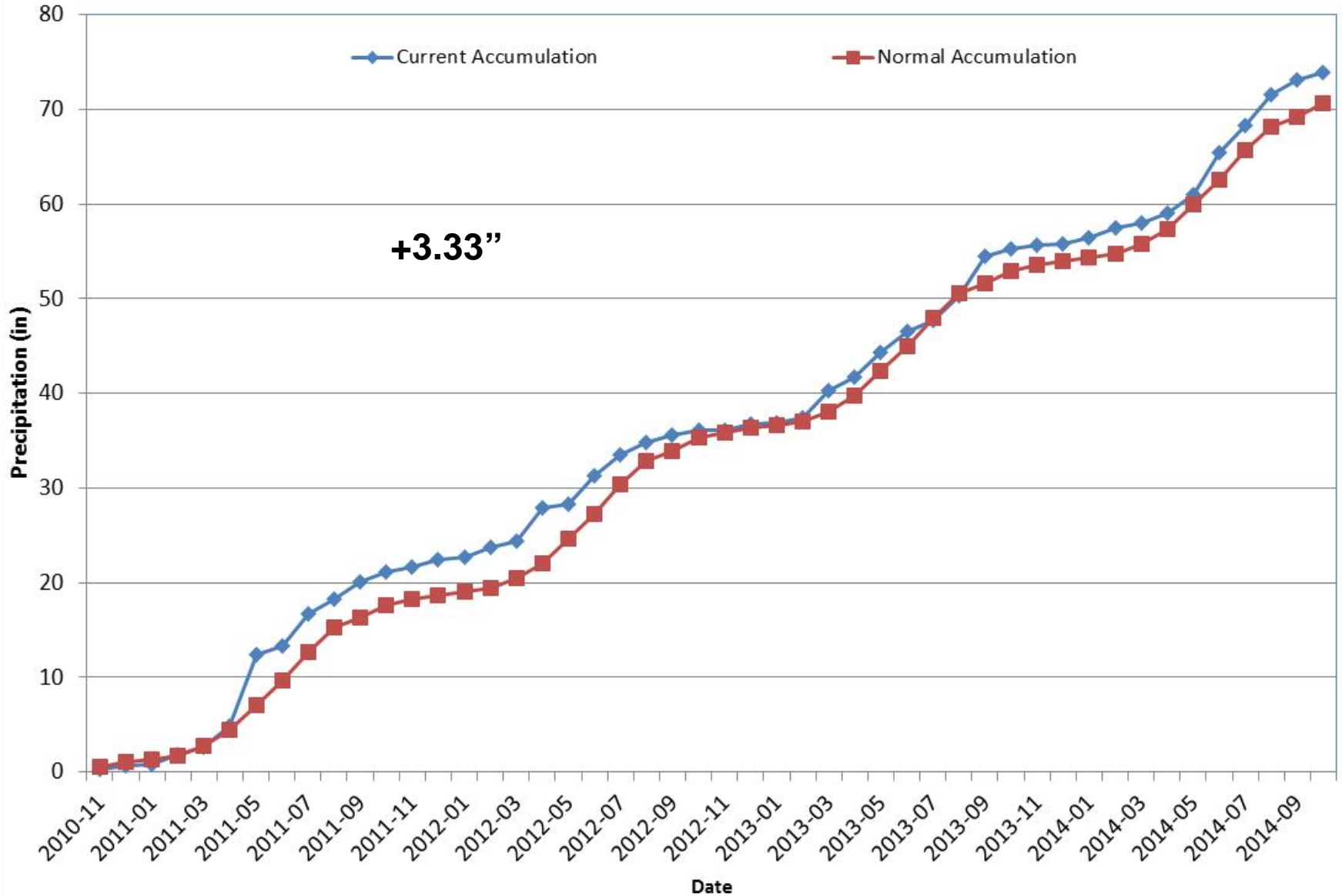
Division 6 - Burlington

Burlington 2015 Water Year



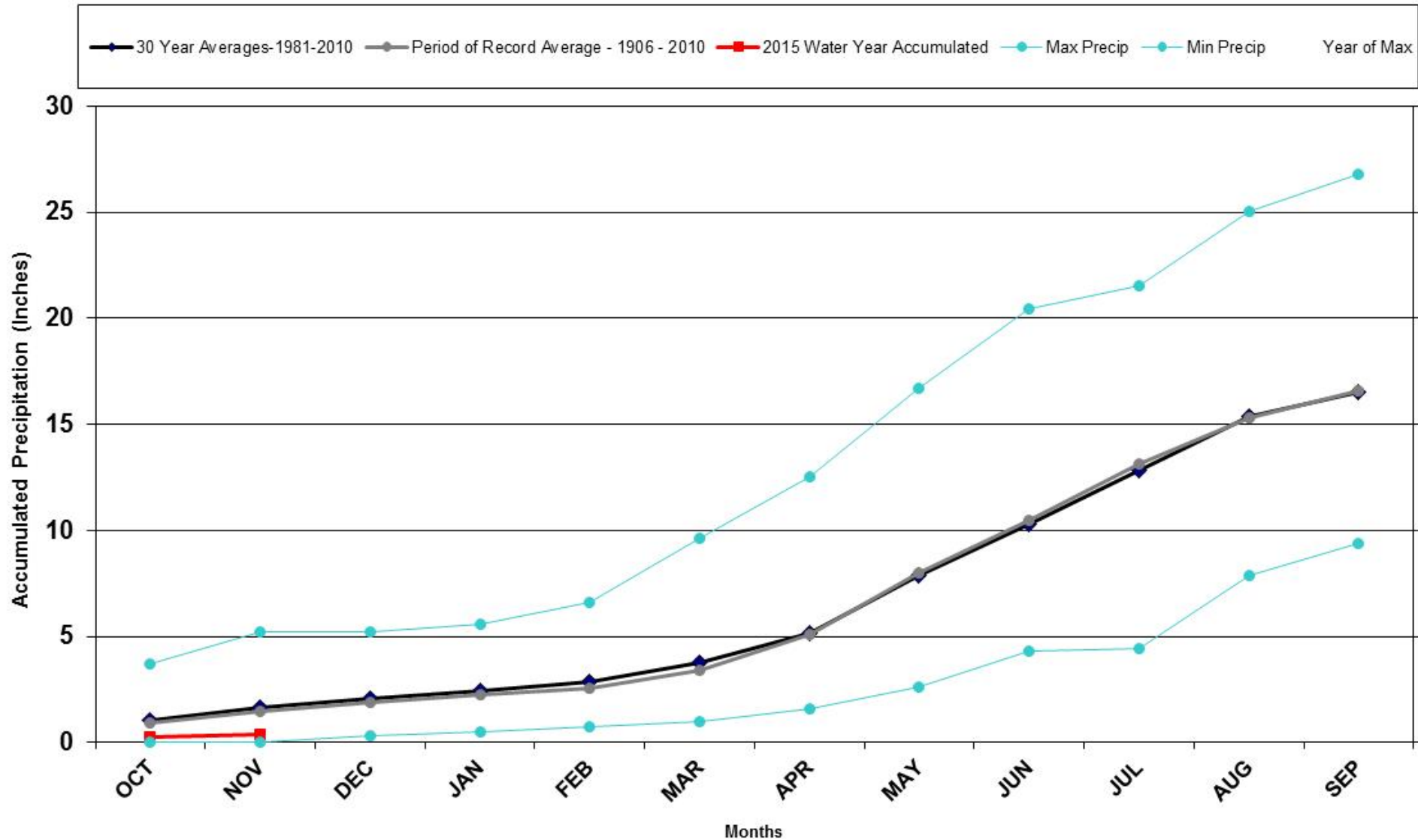
Division 6 - Burlington

Burlington, CO Precipitation Accumulation



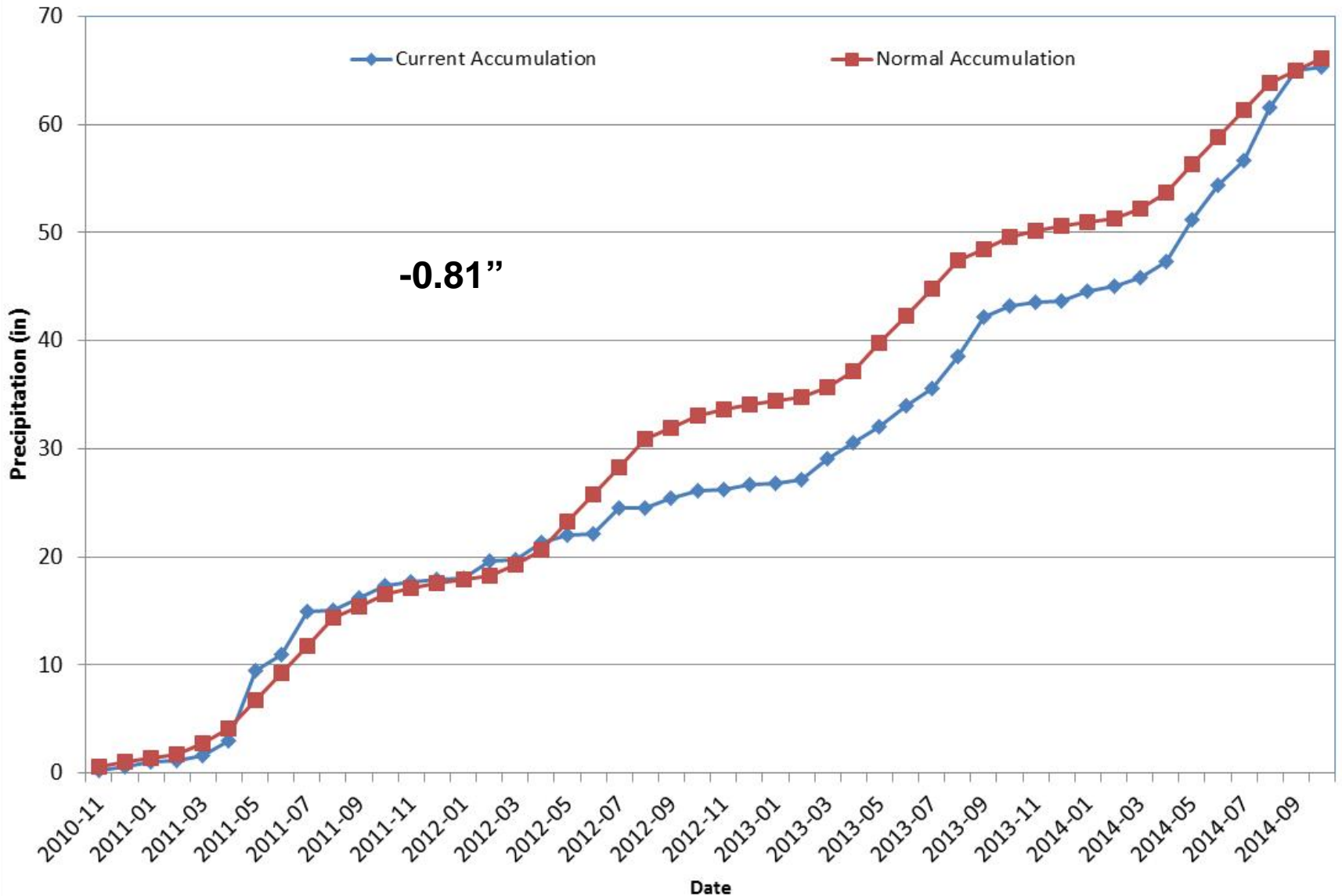
Division 7 – Akron

Akron 4E 2015 Water Year



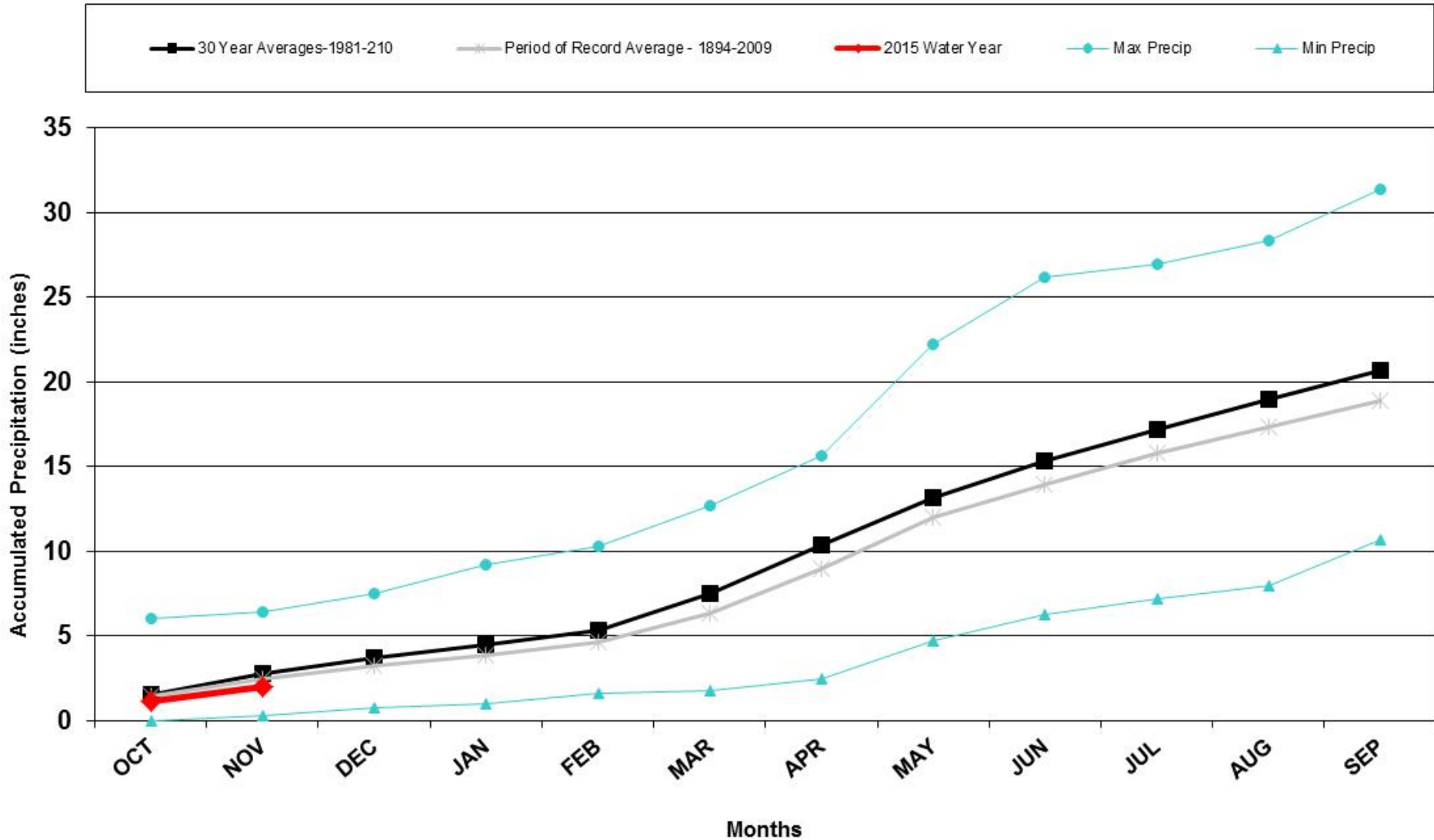
Division 7 – Akron

Akron 4E Precipitation Accumulation



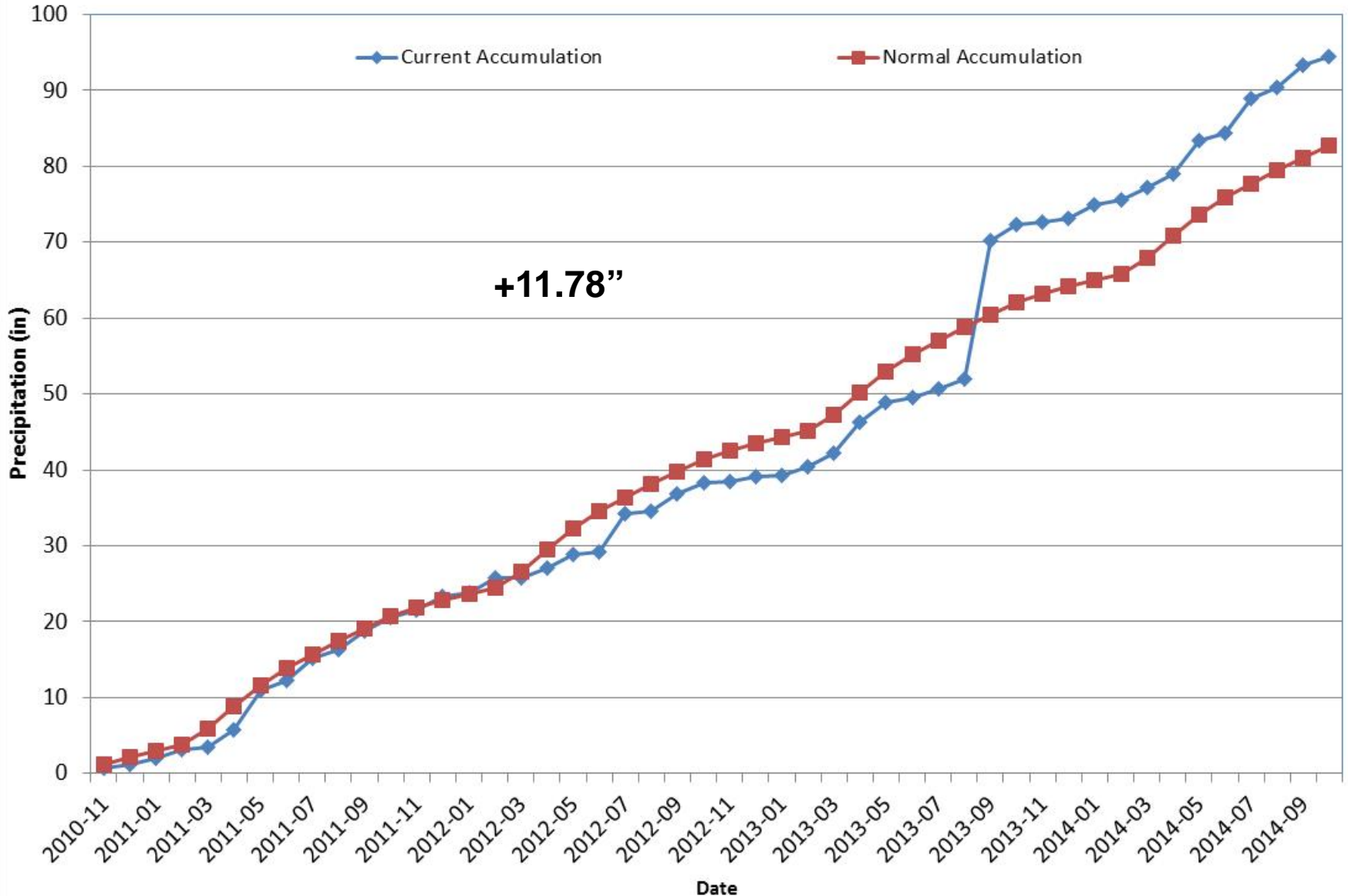
Division 8 - Boulder

Boulder 2015 Water Year



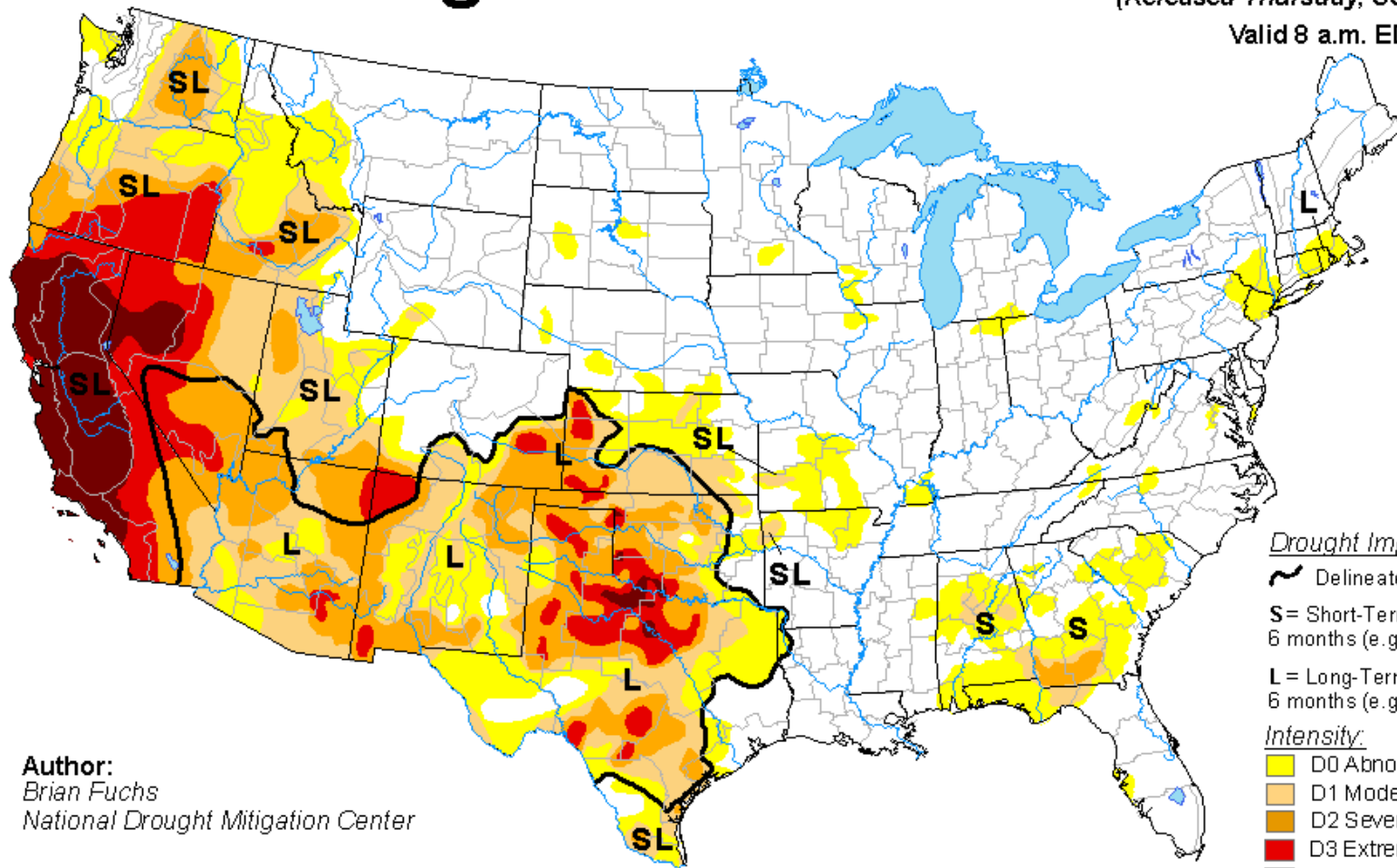
Division 8 - Boulder

Boulder Precipitation Accumulation



U.S. Drought Monitor

September 9, 2014
(Released Thursday, Sep. 11, 2014)
Valid 8 a.m. EDT



Author:
Brian Fuchs
National Drought Mitigation Center

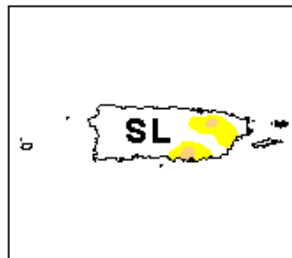
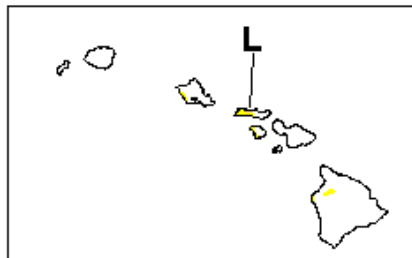
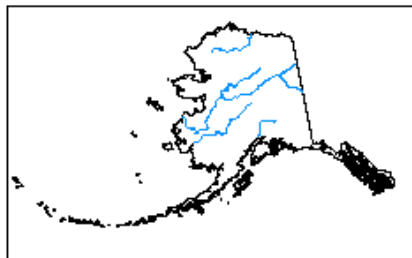
Drought Impact Types:

- 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:

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

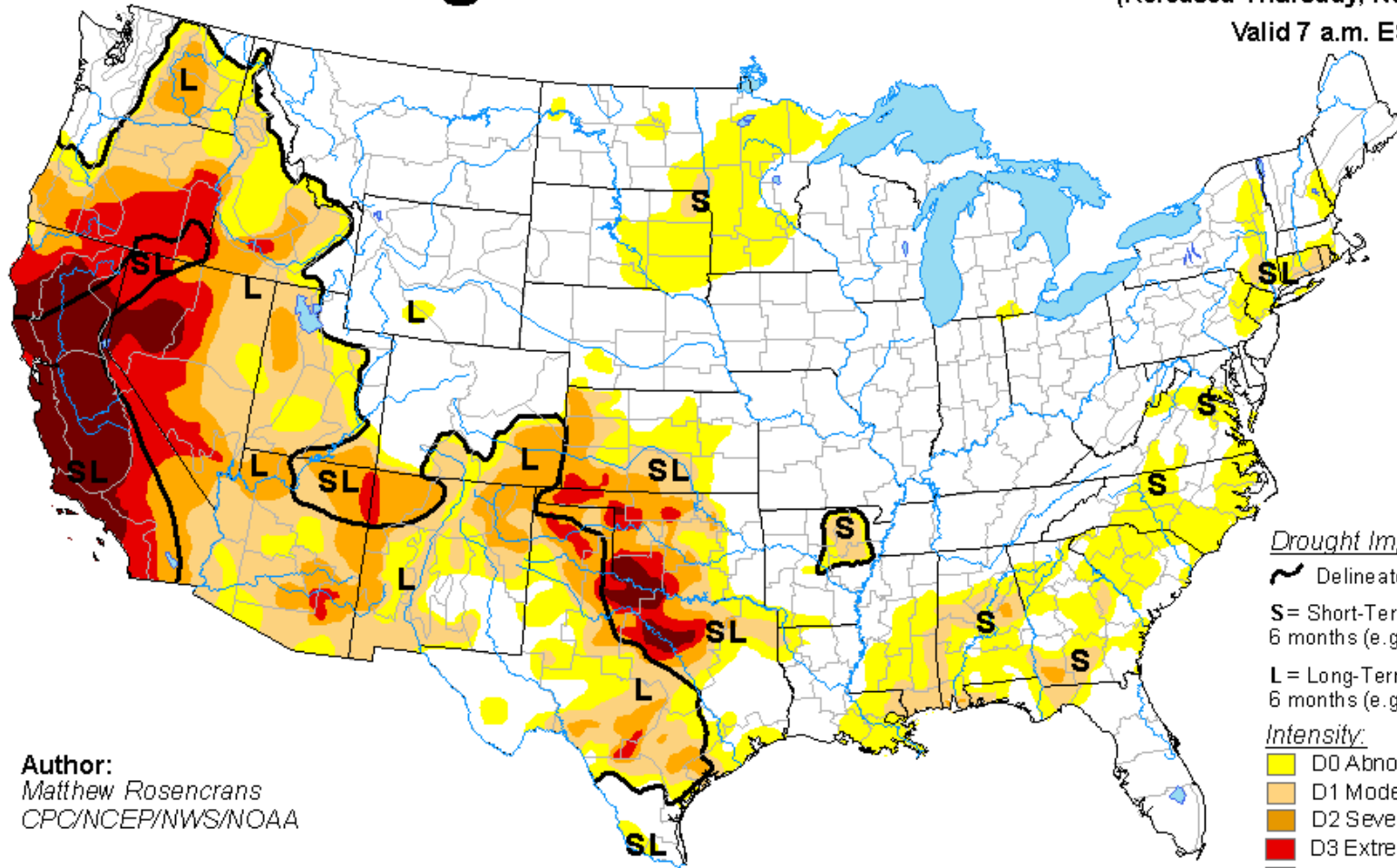
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



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

U.S. Drought Monitor

November 11, 2014
(Released Thursday, Nov. 13, 2014)
Valid 7 a.m. EST



Drought Impact Types:

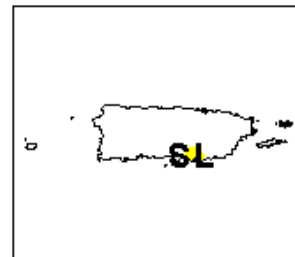
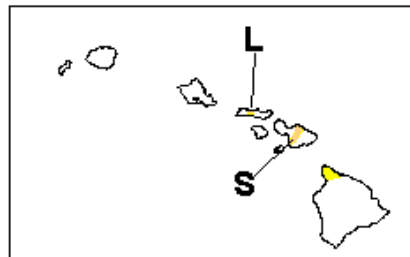
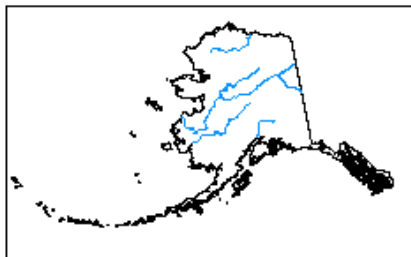
- ~ Delineates dominant impacts
- S= Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L= Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

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

Author:
Matthew Rosencrans
CPC/NCEP/NWS/NOAA

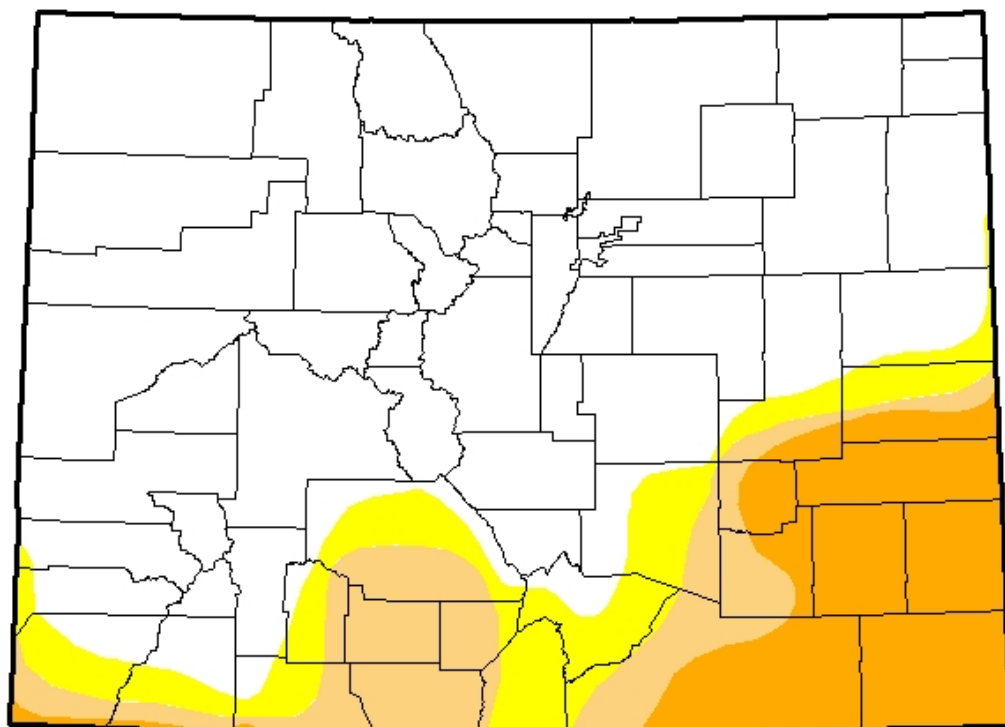
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<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor Colorado

November 11, 2014
(Released Thursday, Nov. 13, 2014)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

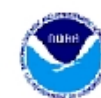
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	70.00	30.00	21.26	12.26	0.00	0.00
Last Week <i>11/4/2014</i>	69.92	30.08	21.28	12.26	0.00	0.00
3 Months Ago <i>8/2/2014</i>	59.90	40.10	26.95	15.58	2.67	0.00
Start of Calendar Year <i>12/31/2013</i>	32.04	67.96	22.33	13.56	4.01	1.47
Start of Water Year <i>9/30/2014</i>	68.96	31.04	22.94	13.82	2.31	0.00
One Year Ago <i>11/12/2013</i>	26.04	73.96	21.01	12.01	4.01	1.47

Intensity:



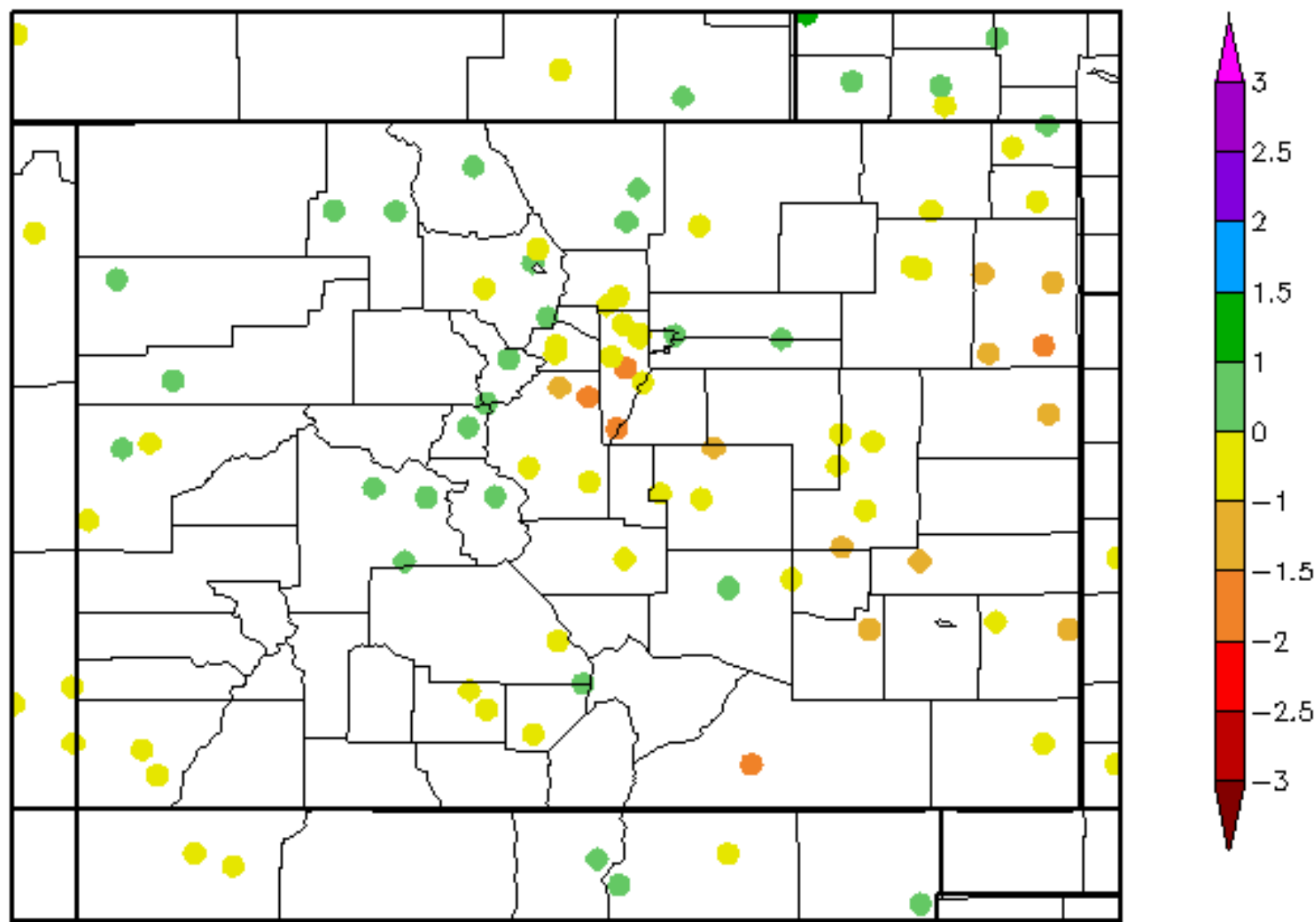
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
Matthew Rosenkrans
CPC/NCEP/NWS/NOAA



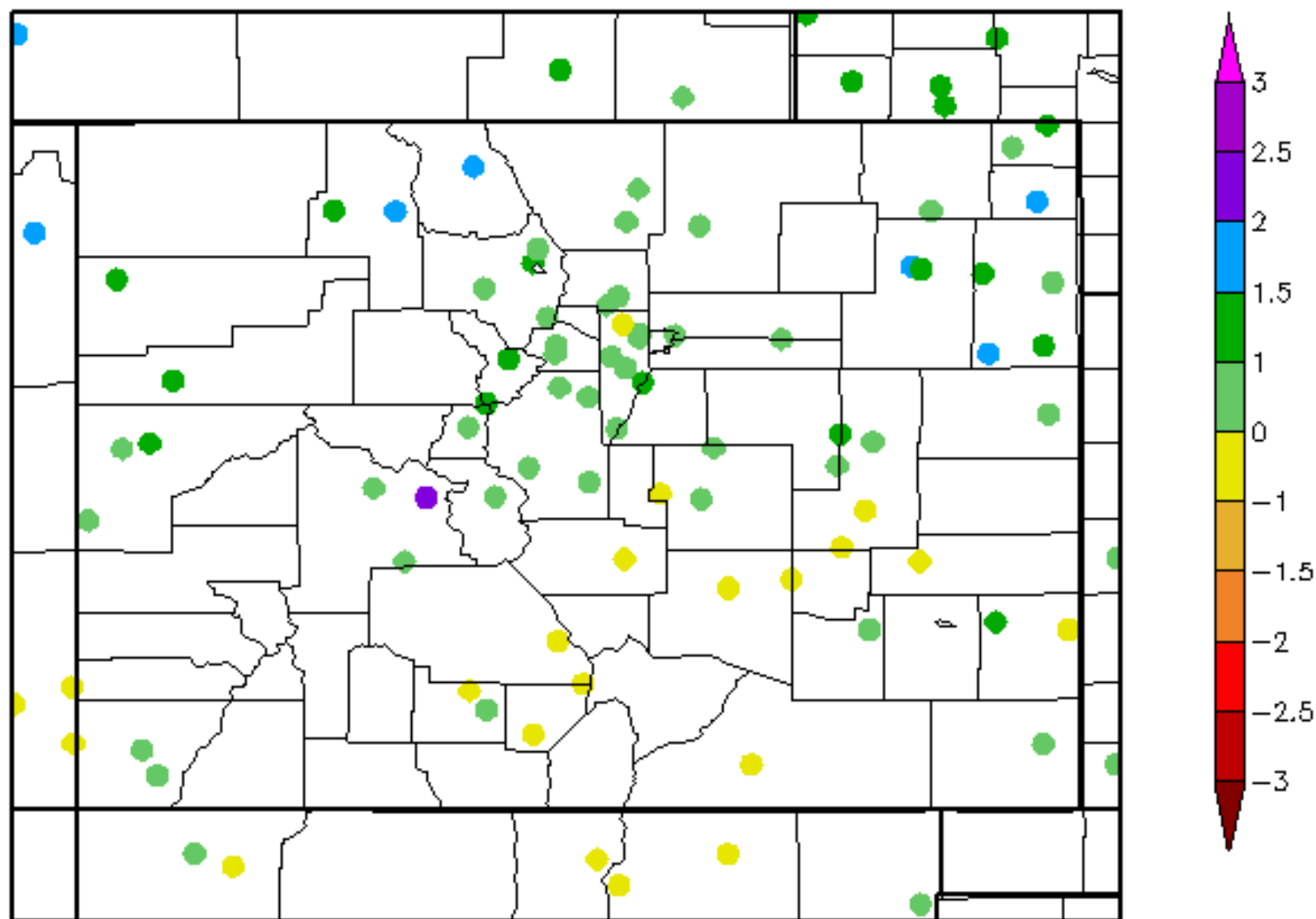
30 Day SPI

10/18/2014 - 11/16/2014



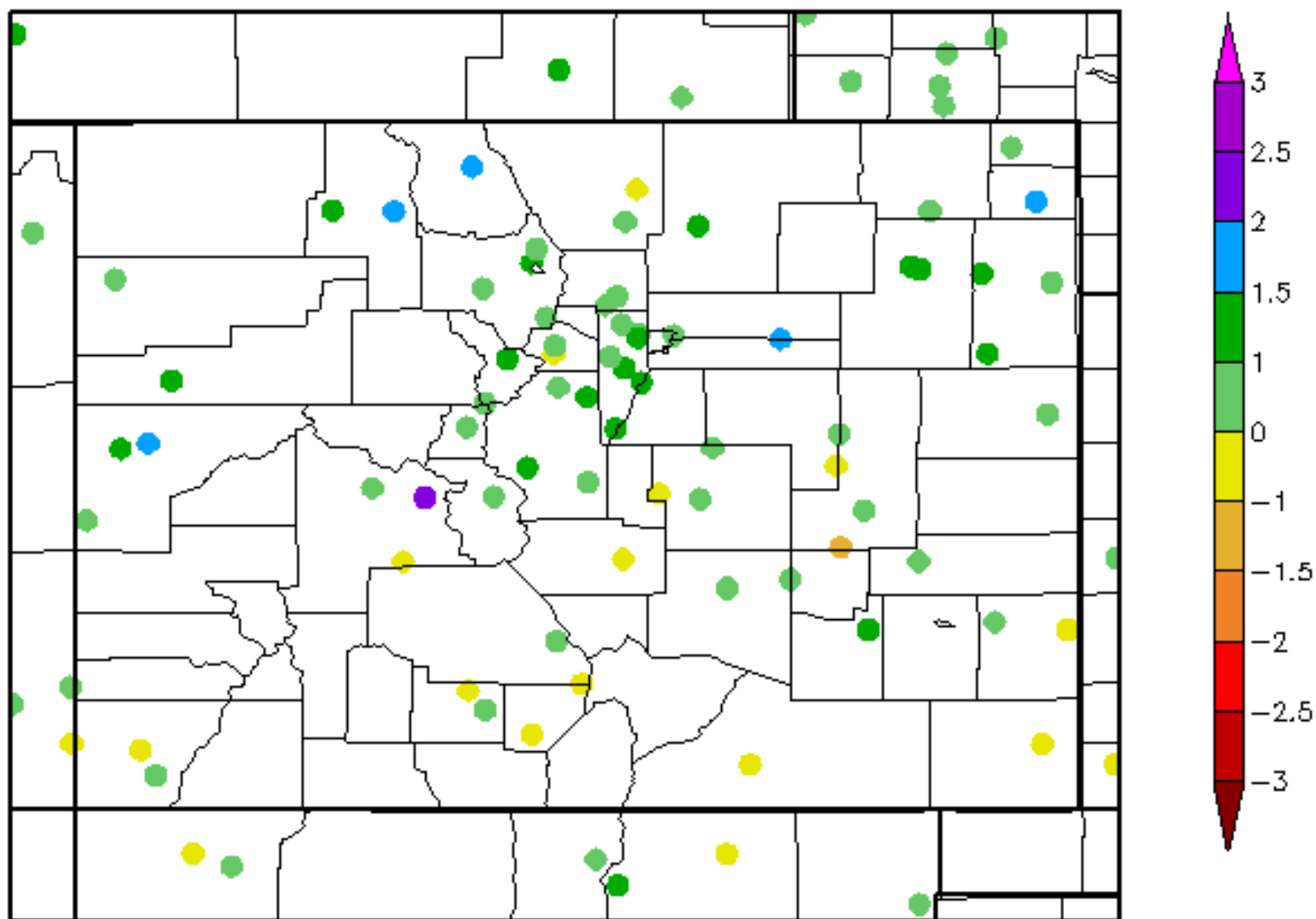
90 Day SPI

8/19/2014 - 11/16/2014



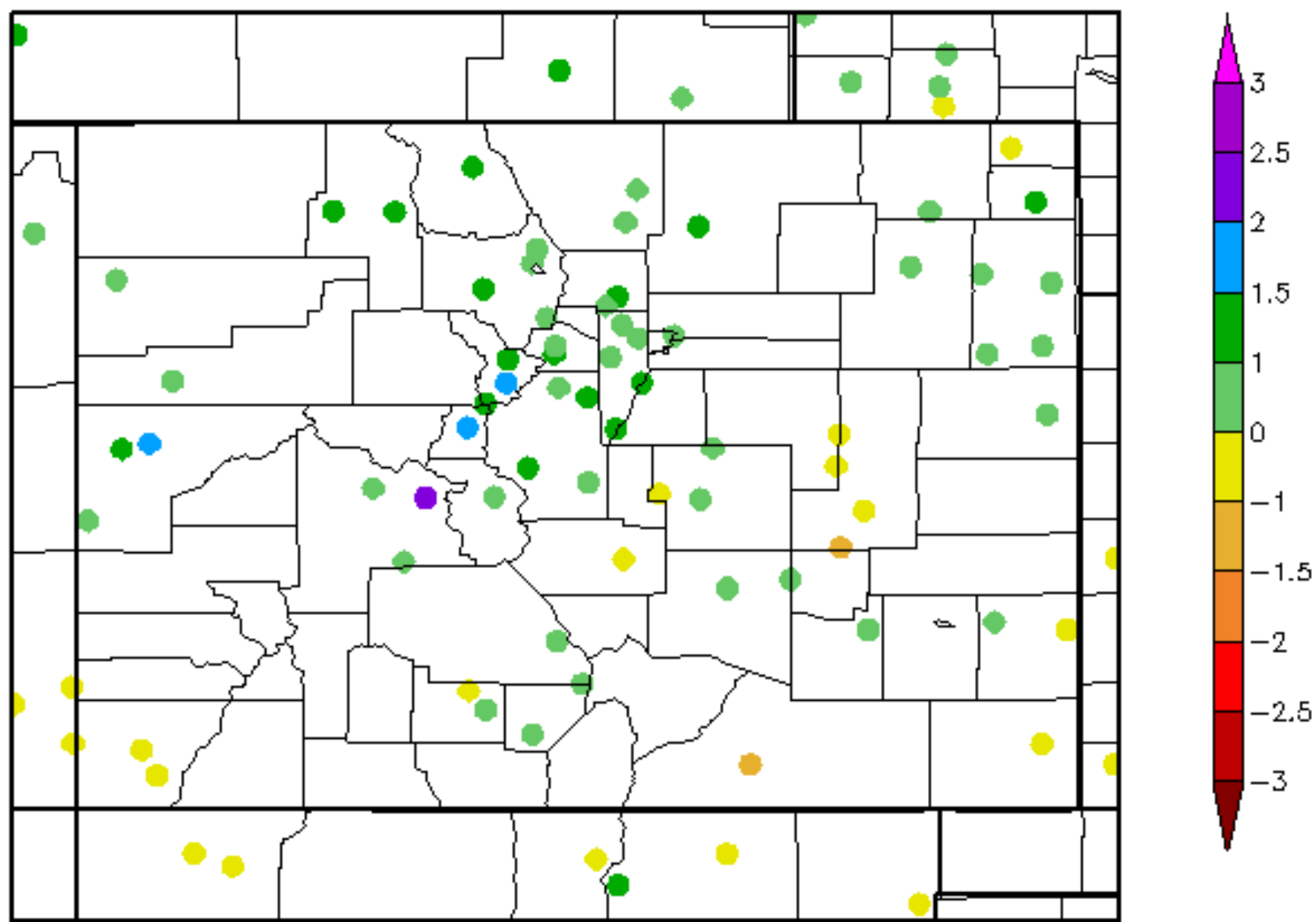
6 Month SPI

5/17/2014 - 11/16/2014



12 Month SPI

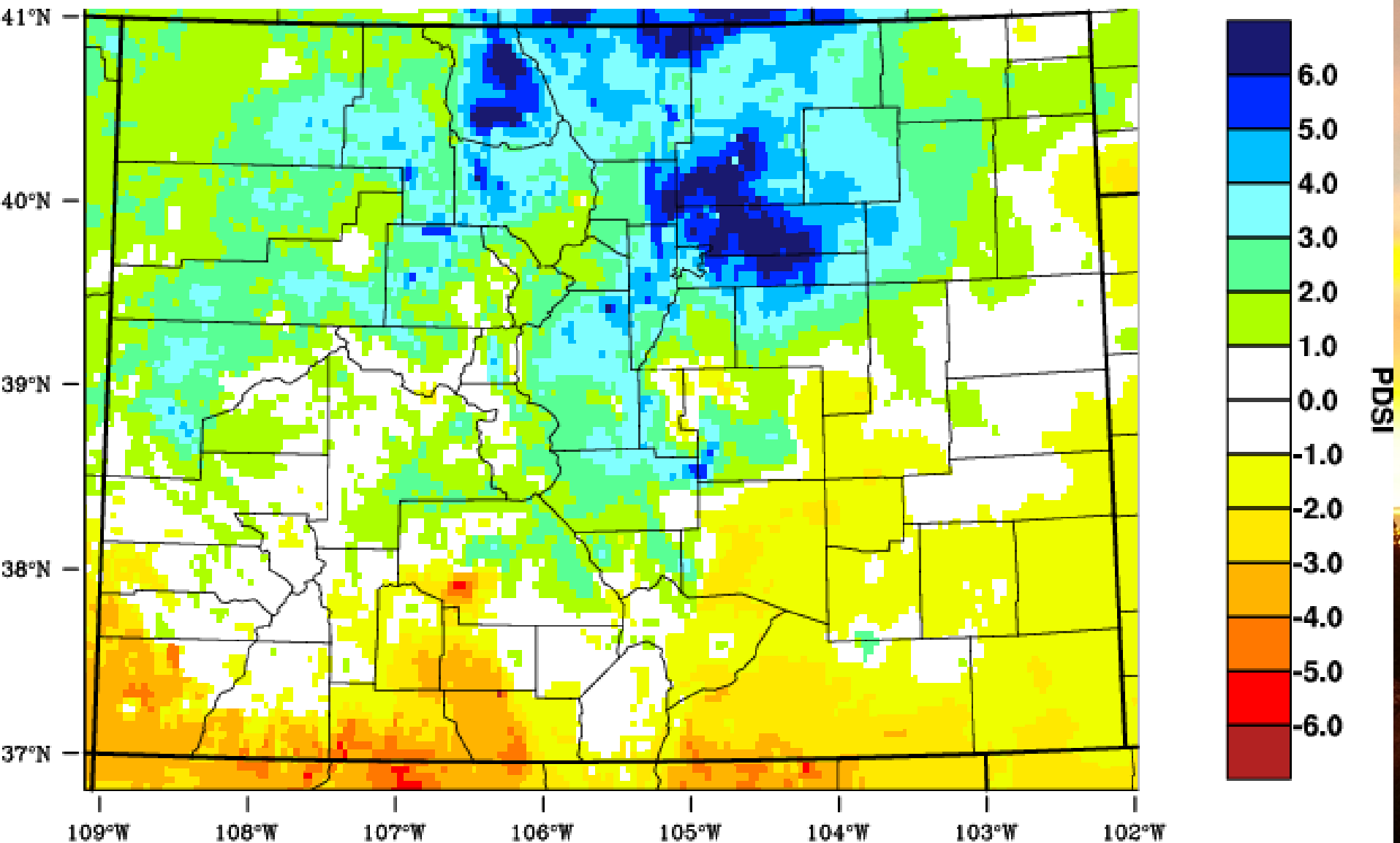
11/17/2013 - 11/16/2014



Palmer

Colorado - PDSI

October 2014



WestWide Drought Tracker - WRCC/UI Data Source - PRISM (Prelim), created 16 NOV 2014

Colorado Climate Center

Data and Power Point Presentations available for downloading

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

