



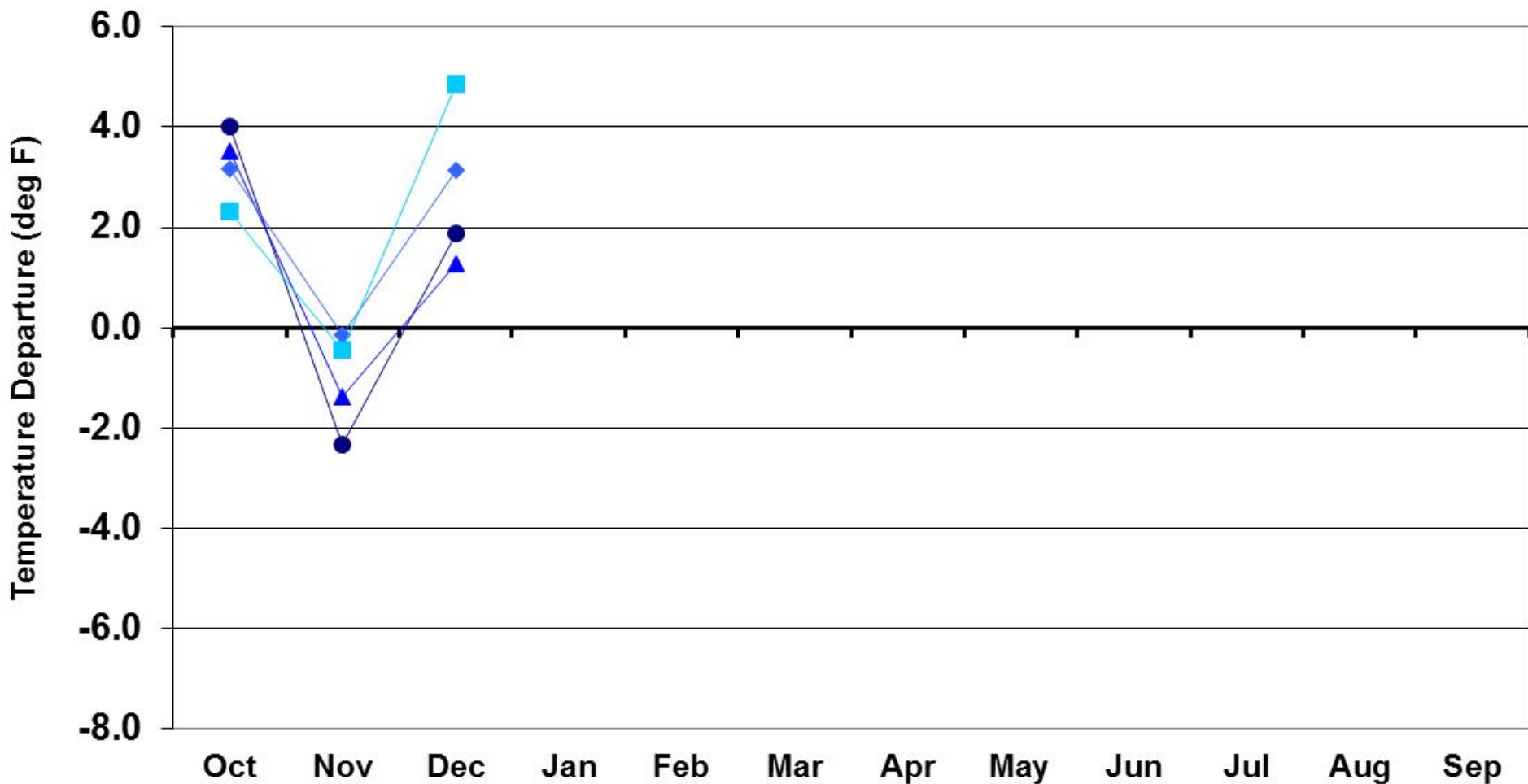
Climate Update



Nolan Doesken
State Climatologist
Colorado Climate Center

Presented to
Water Availability Task Force
20 January 2015
Denver, CO

Water Year 2015 Temperature Departures



● Eastern Plains

▲ Foothills

◆ Mountains

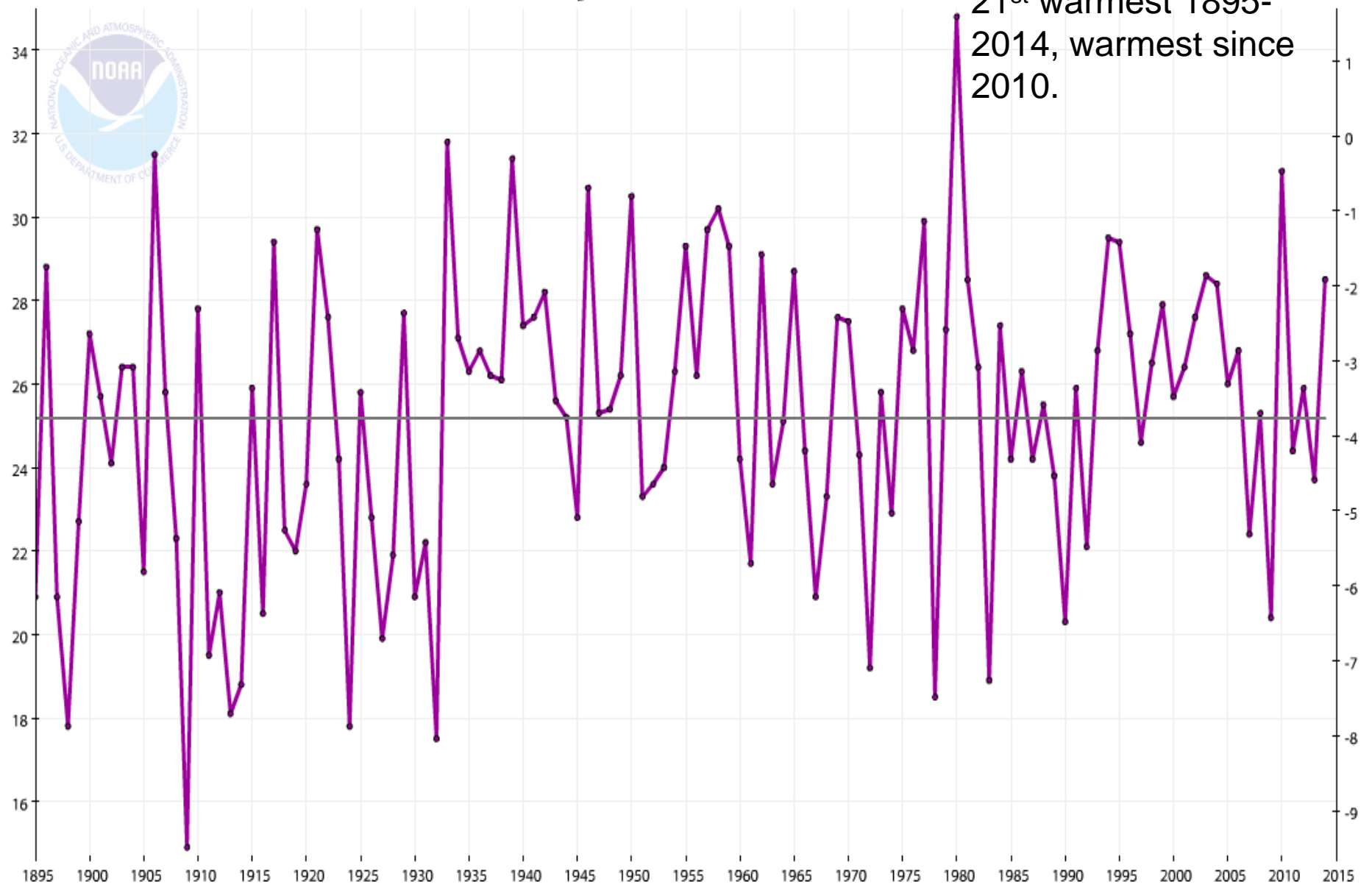
■ Western Valleys

December Average Temperature History for Colorado (NCDC)

Colorado, Average Temperature, December

— 1901-2000 Avg: 25.2°F
—●— Avg Temperature

28.5 F (+3.3) Ranks
21st warmest 1895-2014, warmest since 2010.



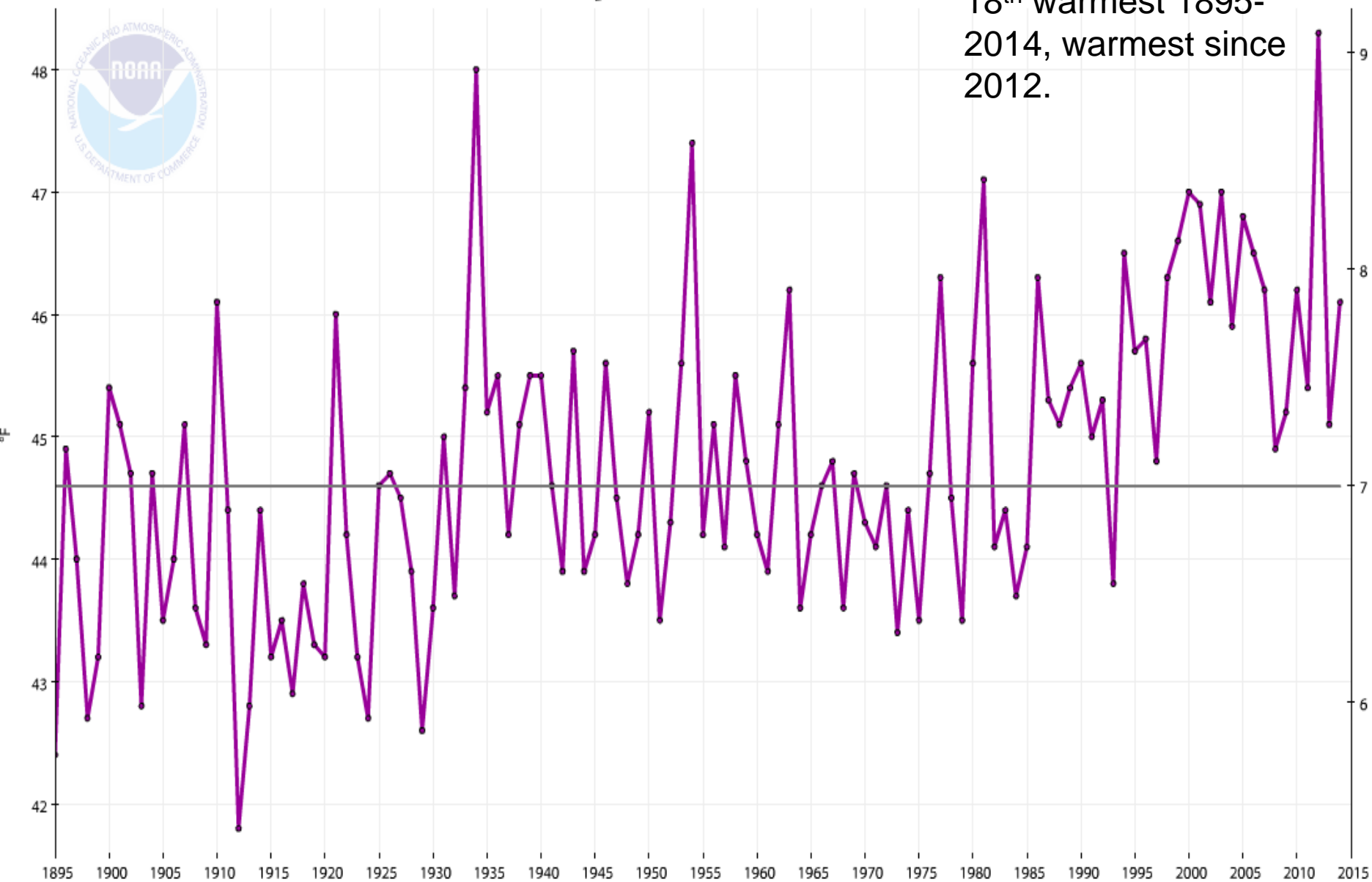
CY 2014 Average Temperature History for Colorado (NCDC)

Colorado, Average Temperature, January-December

— 1901-2000
Avg: 44.6°F

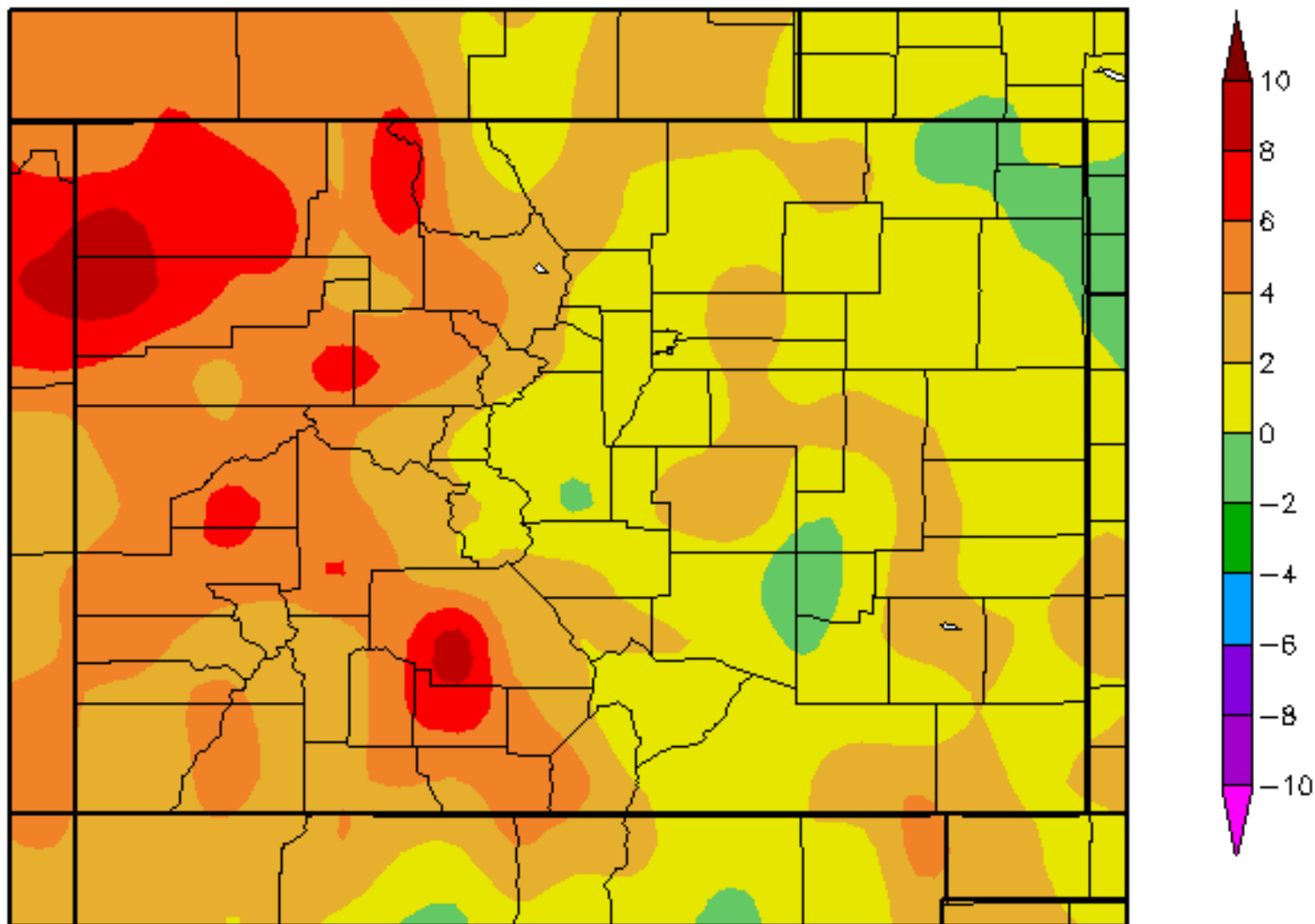
—●— Avg Temperature

46.1 F (+1.5) Ranks
18th warmest 1895-
2014, warmest since
2012.



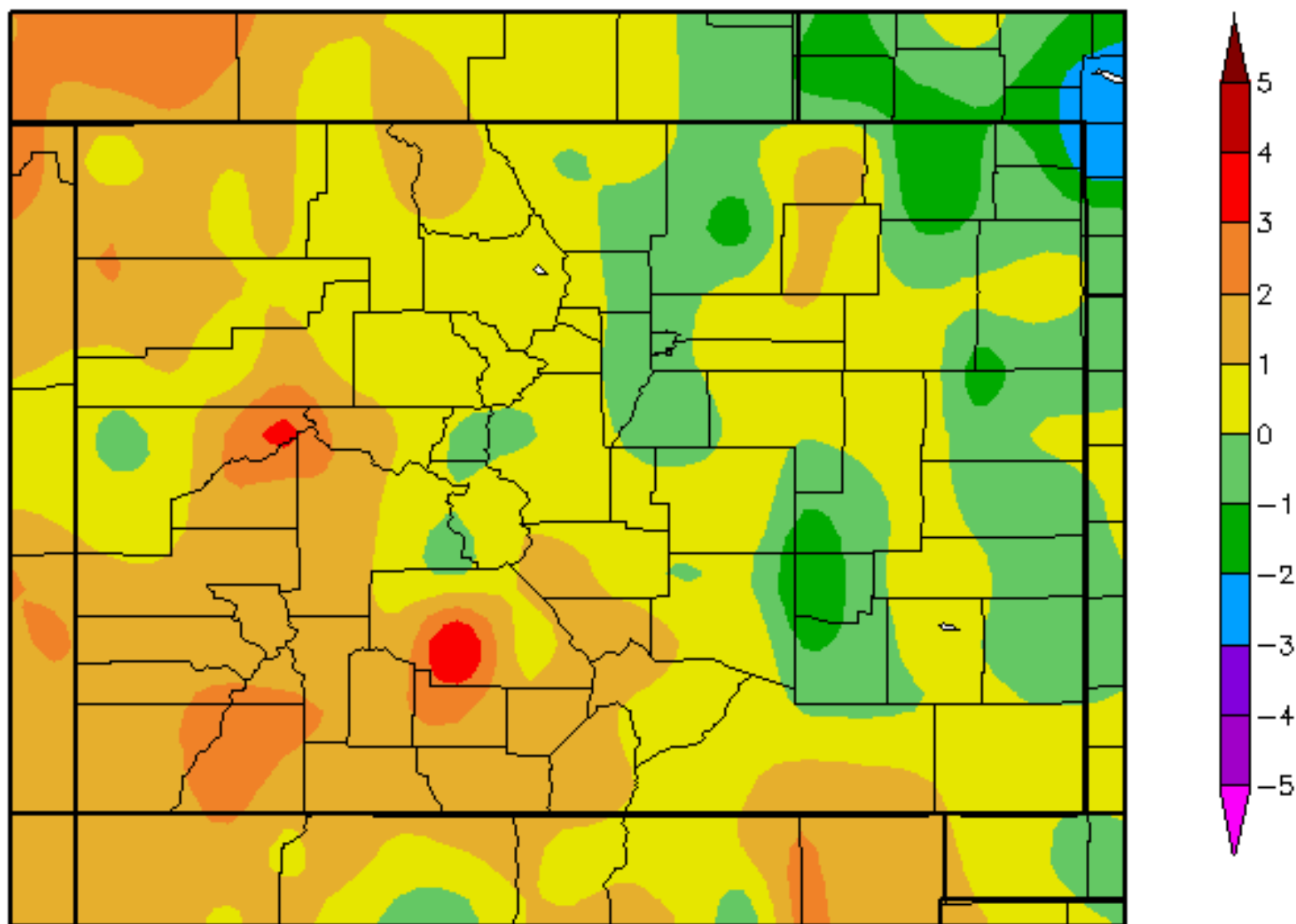
Departure from Normal Temperature (F)

12/1/2014 - 12/31/2014



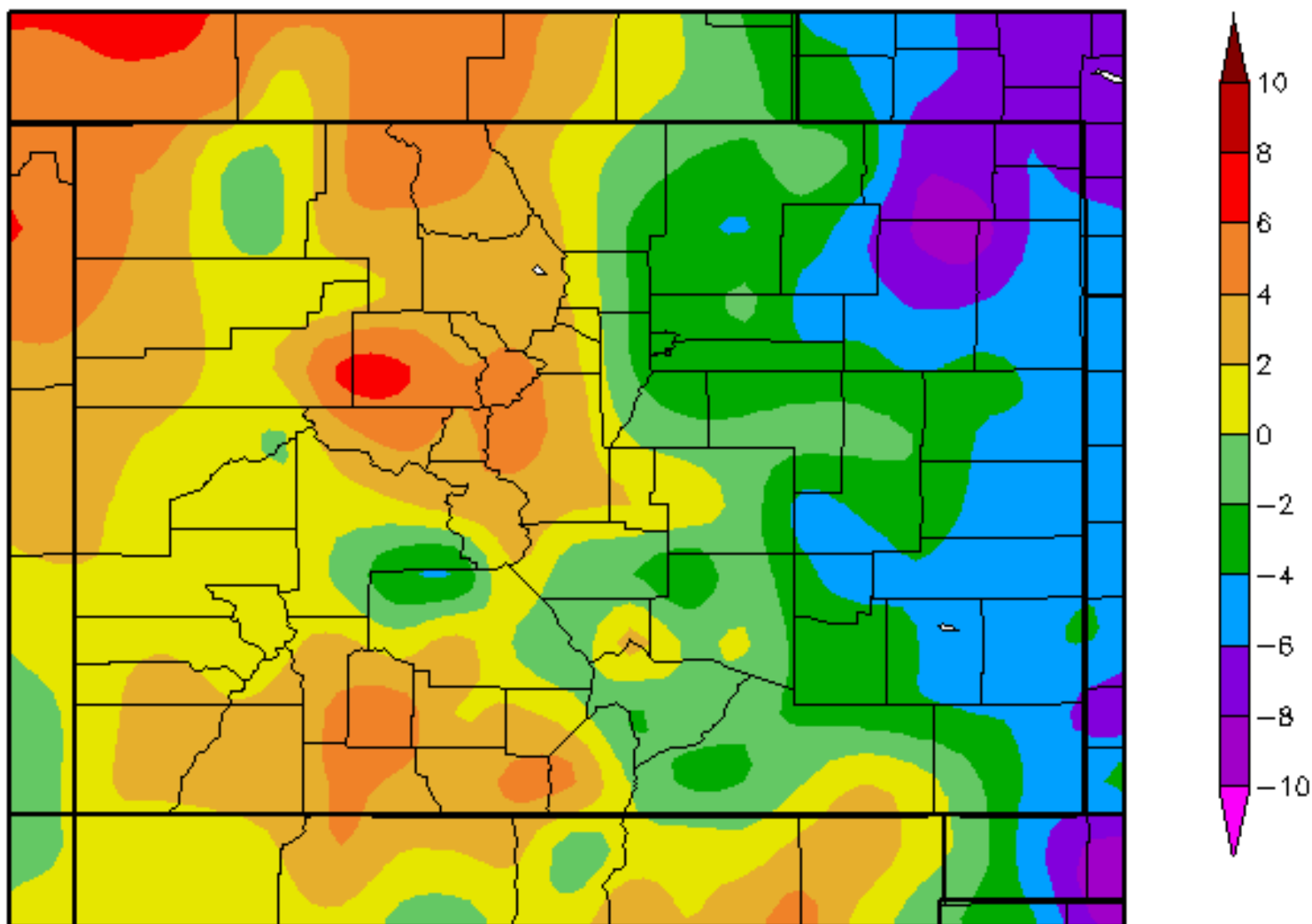
Departure from Normal Temperature (F)

1/1/2014 - 12/31/2014

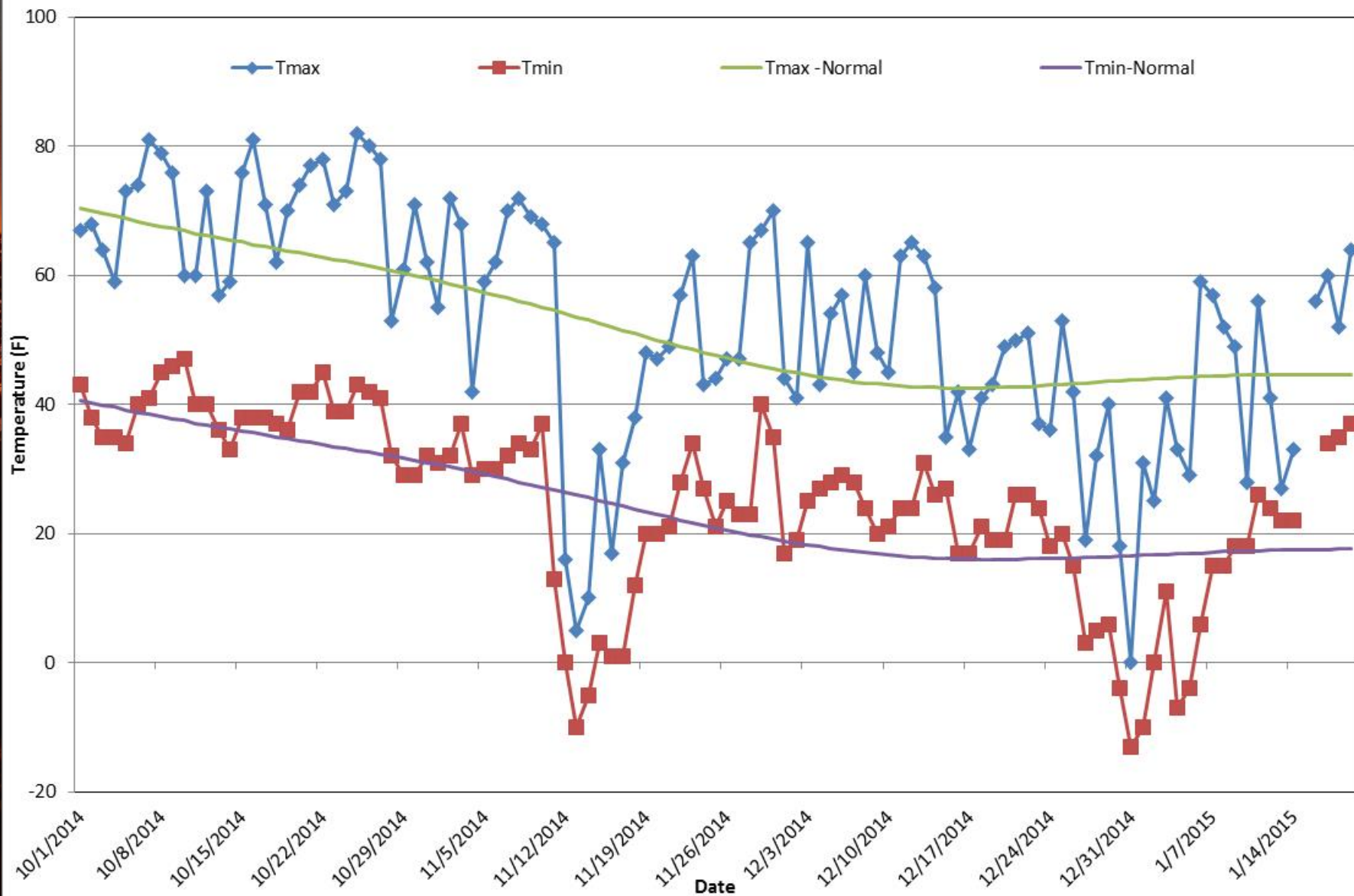


Departure from Normal Temperature (F)

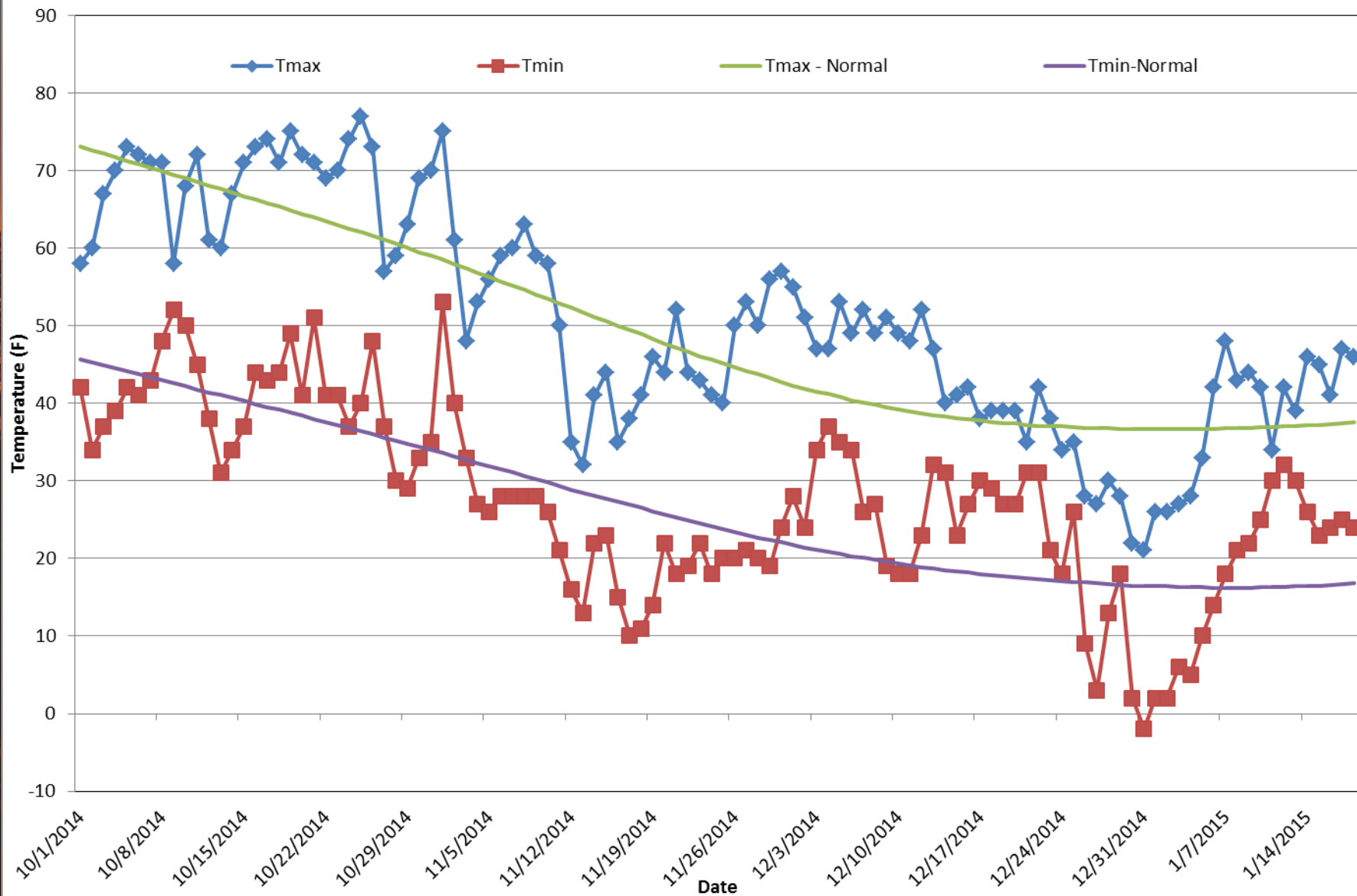
1/1/2015 - 1/18/2015



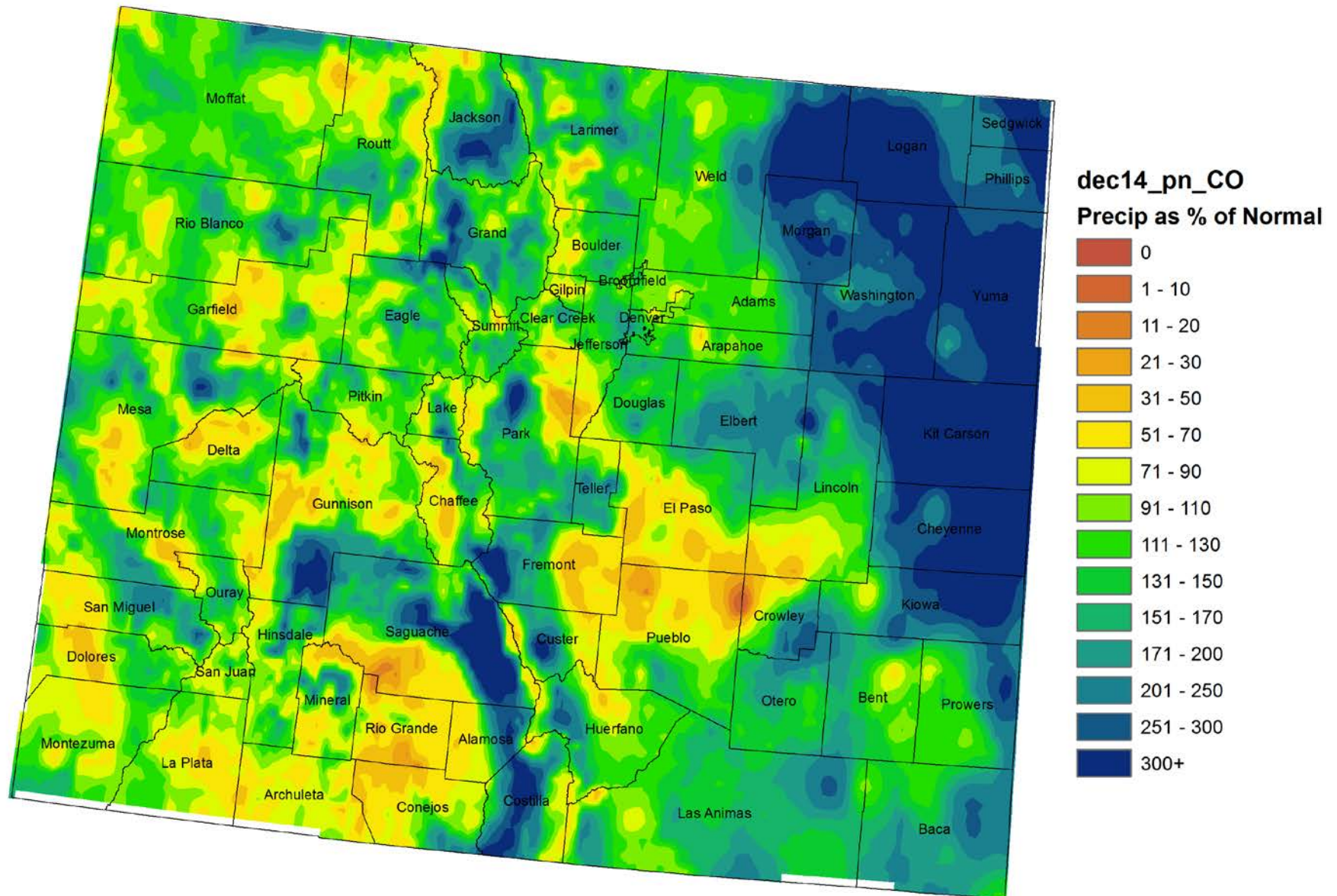
Denver-Stapleton Temperatures Oct 2014-Current



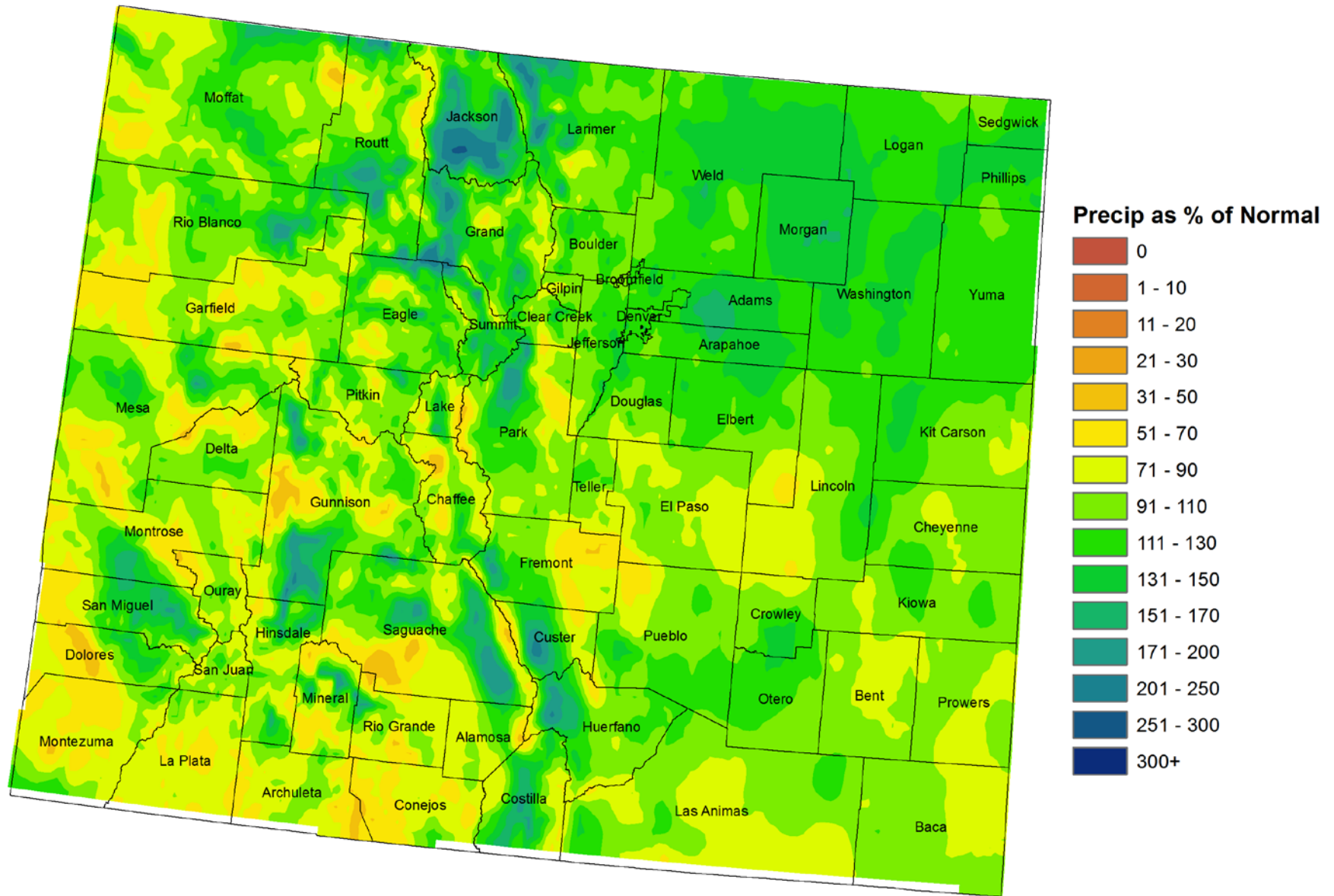
Grand Junction Temperatures Oct 2014-Current



Colorado December 2014 Precipitation as a Percentage of Normal



Colorado 2014 Precipitation as a Percentage of Normal

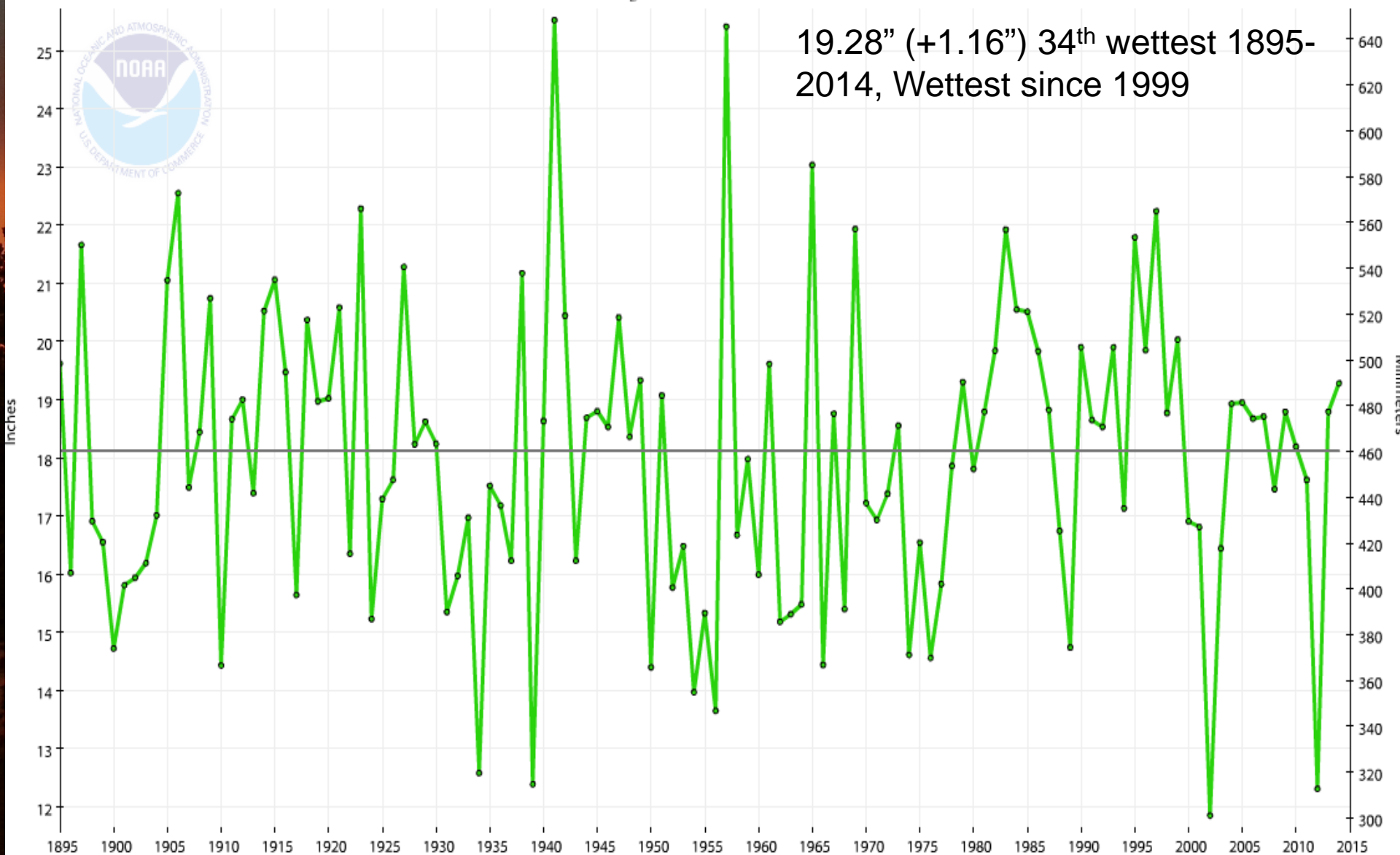


CY 2014 Statewide Precipitation

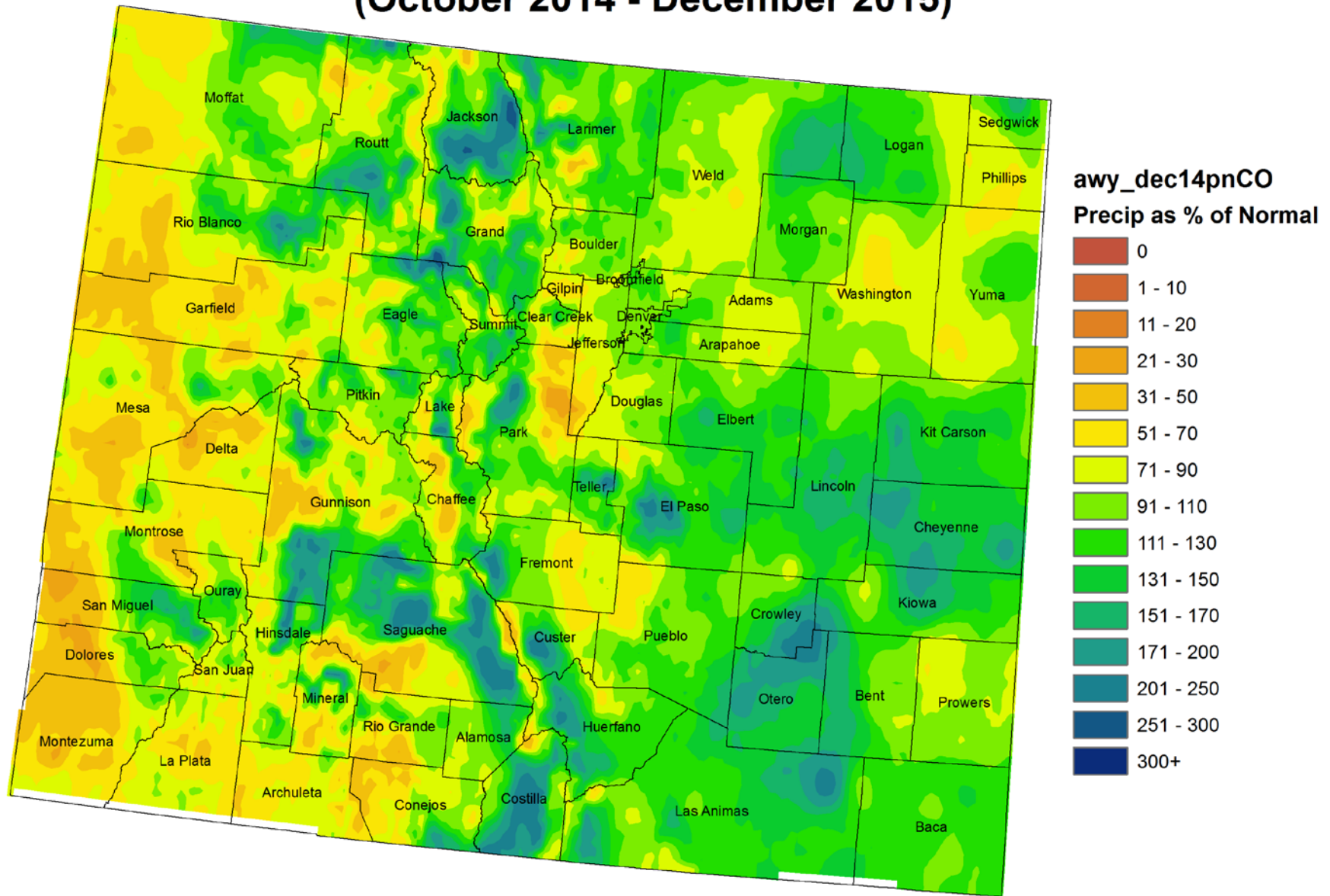
Colorado, Precipitation, January-December

— 1901-2000 Avg: 18.12" —●— Precip

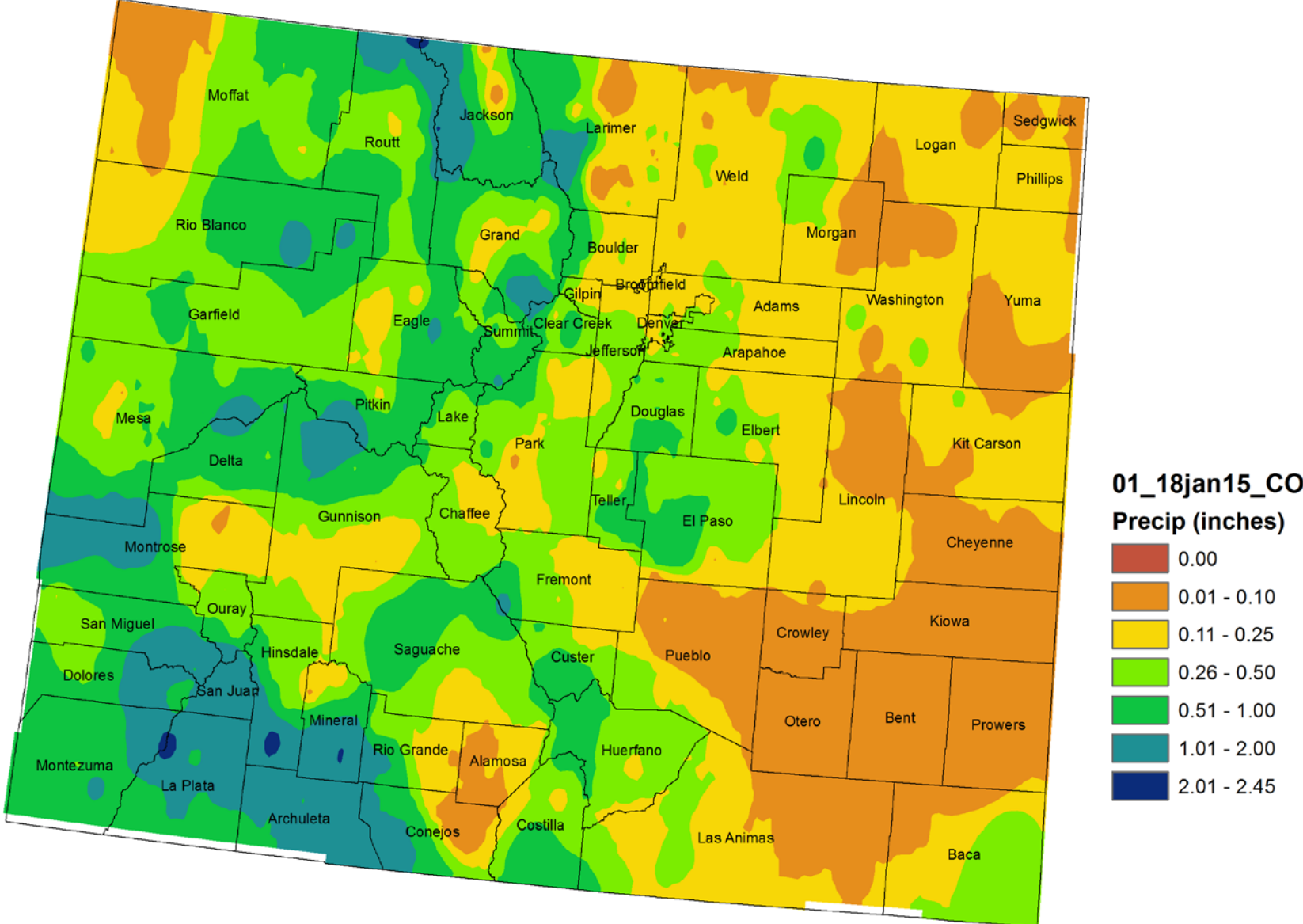
19.28" (+1.16") 34th wettest 1895-2014, Wettest since 1999



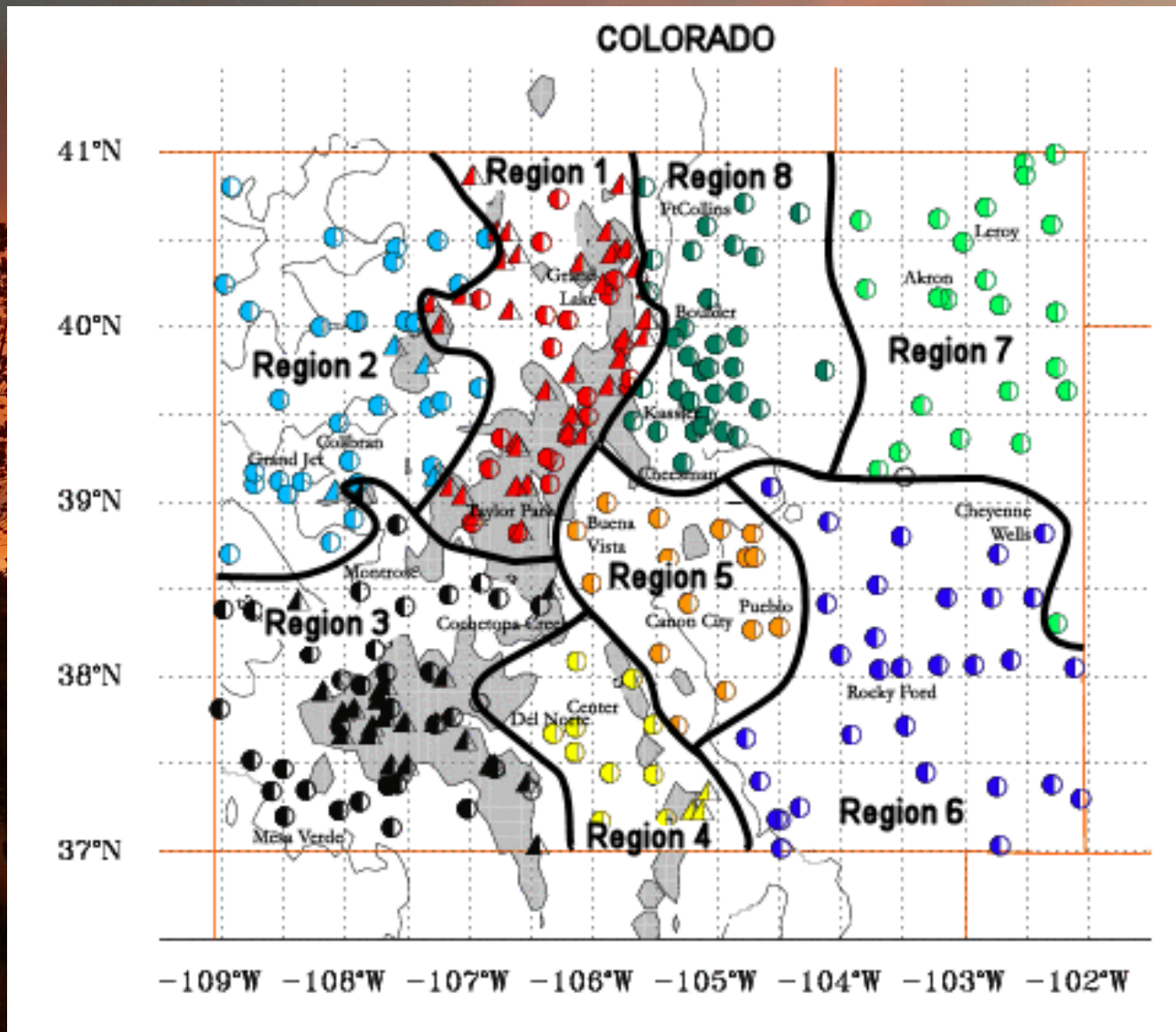
Colorado Water Year 2015 Precipitation as a Percentage of Normal (October 2014 - December 2015)



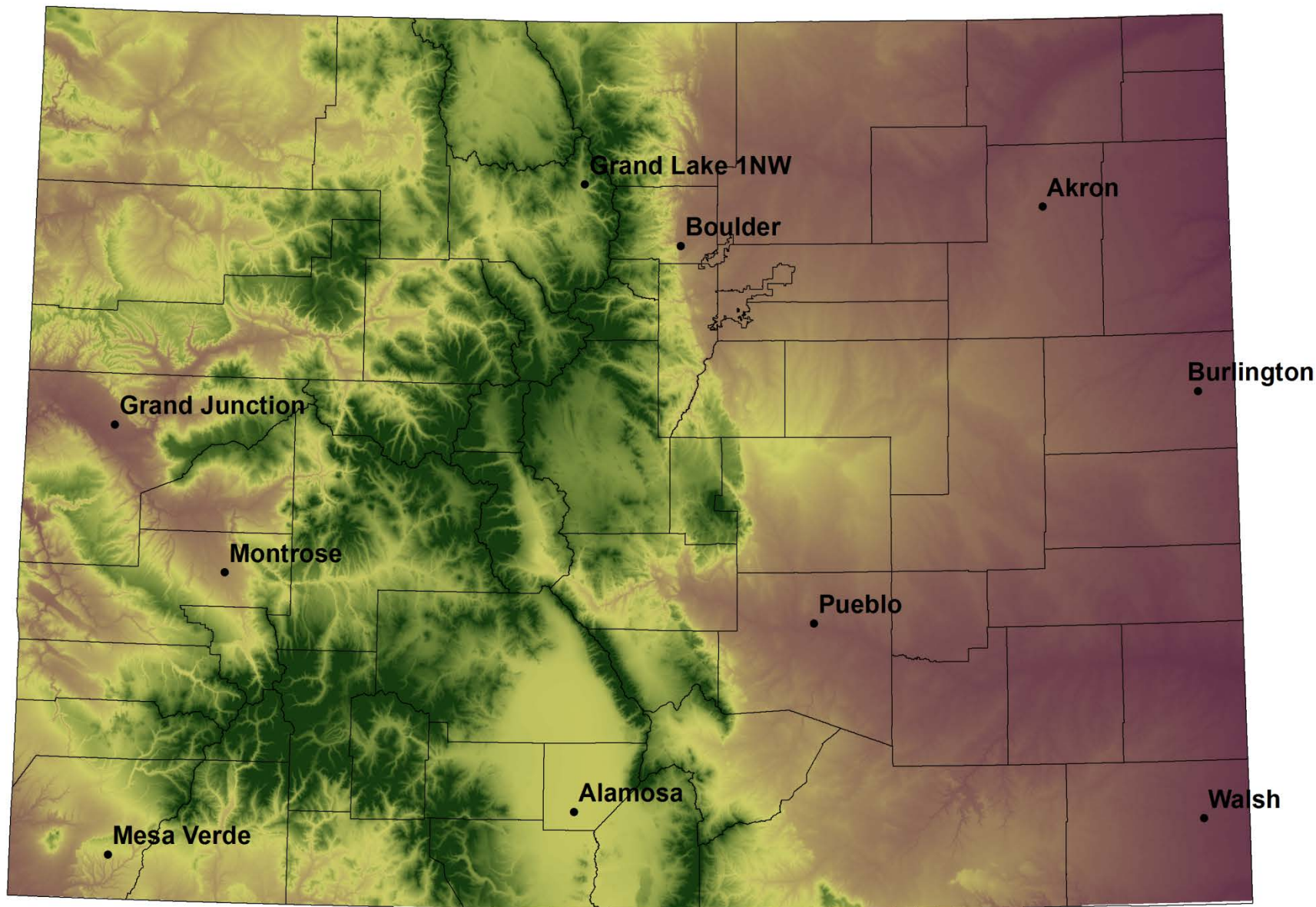
Colorado Month to Date Precipitation 1 - 18 January 2015



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

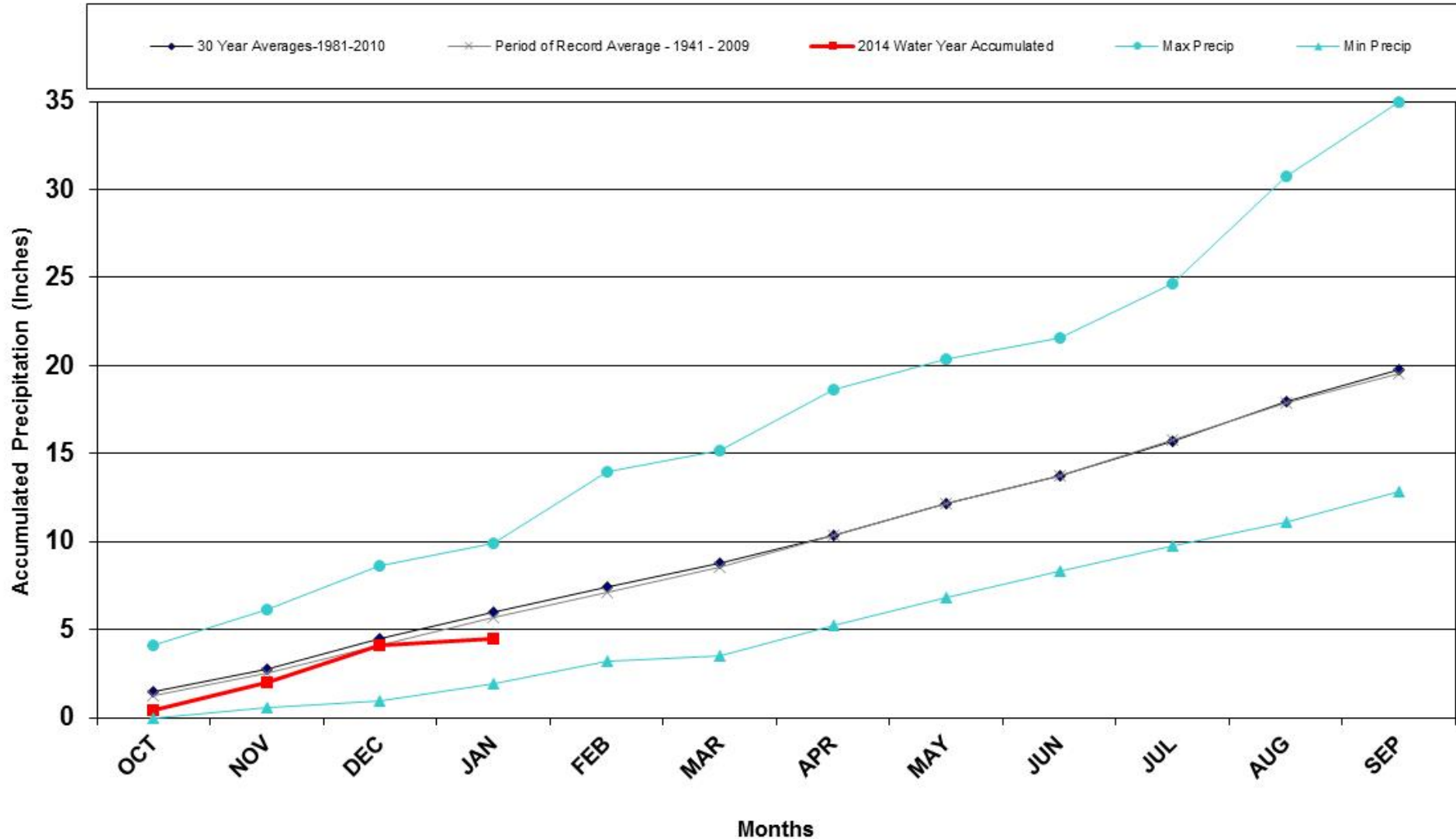


NWS Cooperative Stations for WATF



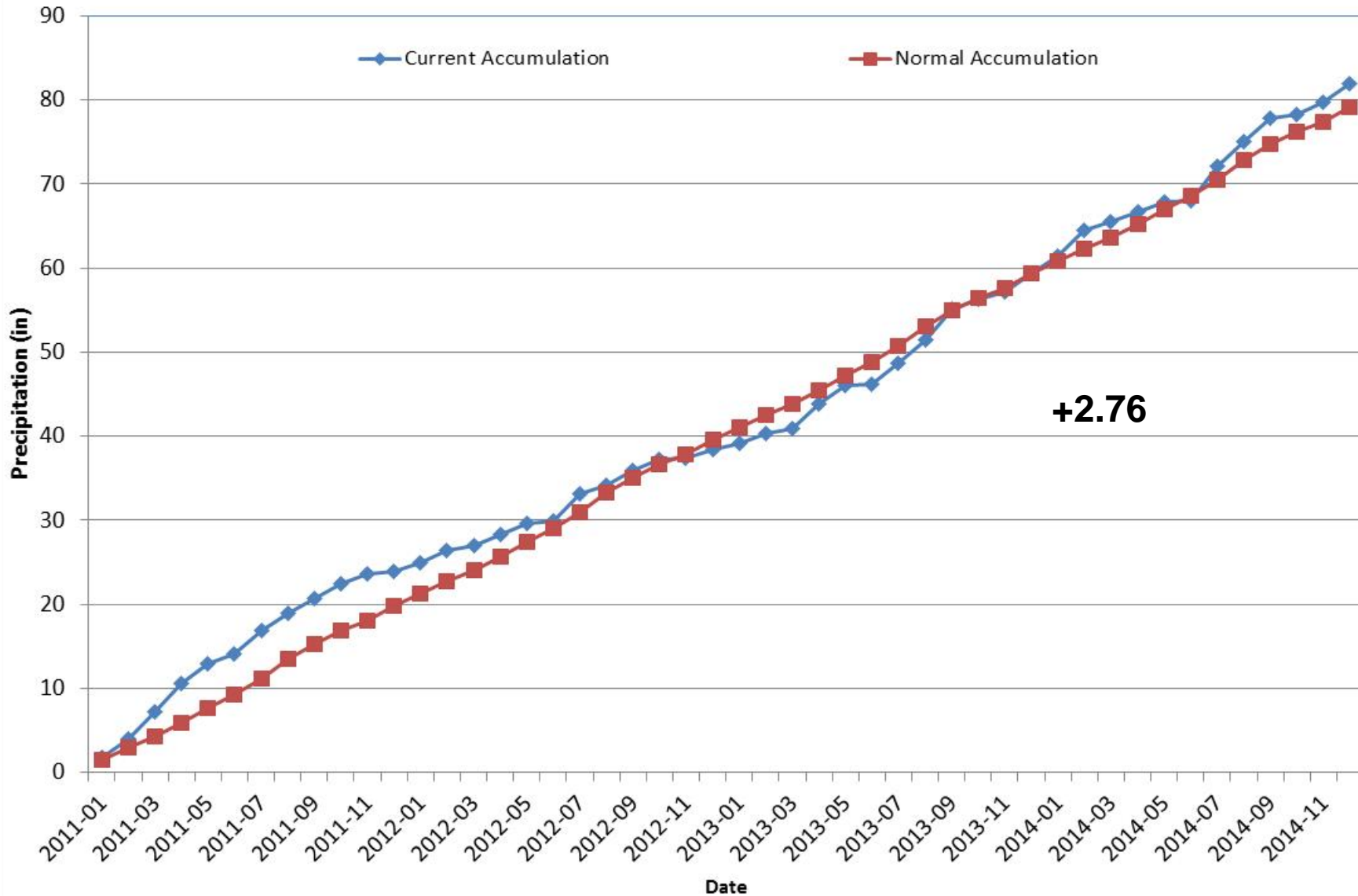
Division 1 – Grand Lake 1NW

Grand Lake 1 NW 2015 Water Year



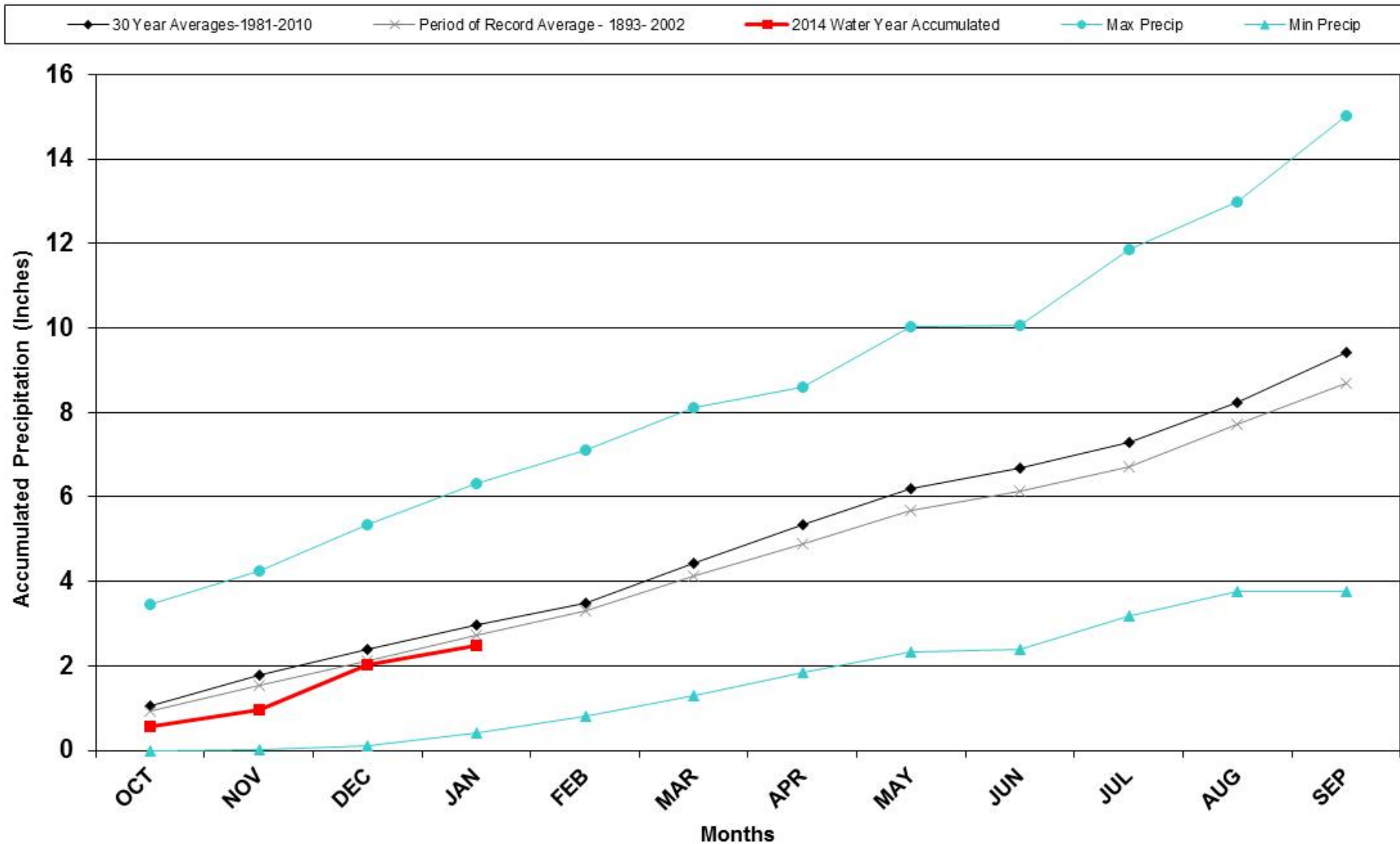
Division 1 – Grand Lake 1NW

Grand Lake 1NW Precipitation Accumulation



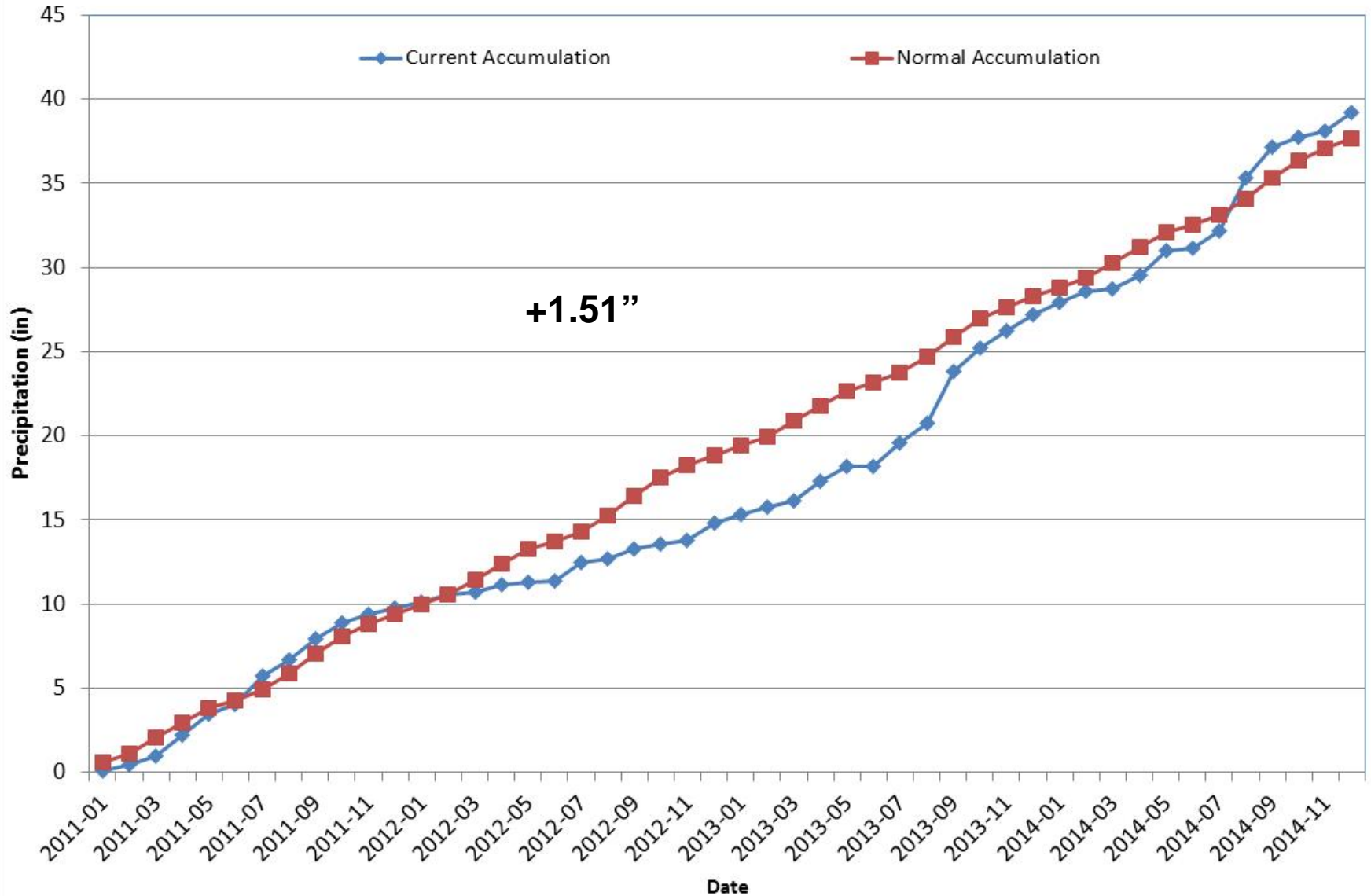
Division 2 – Grand Junction

Grand Junction WSFO 2015 Water Year



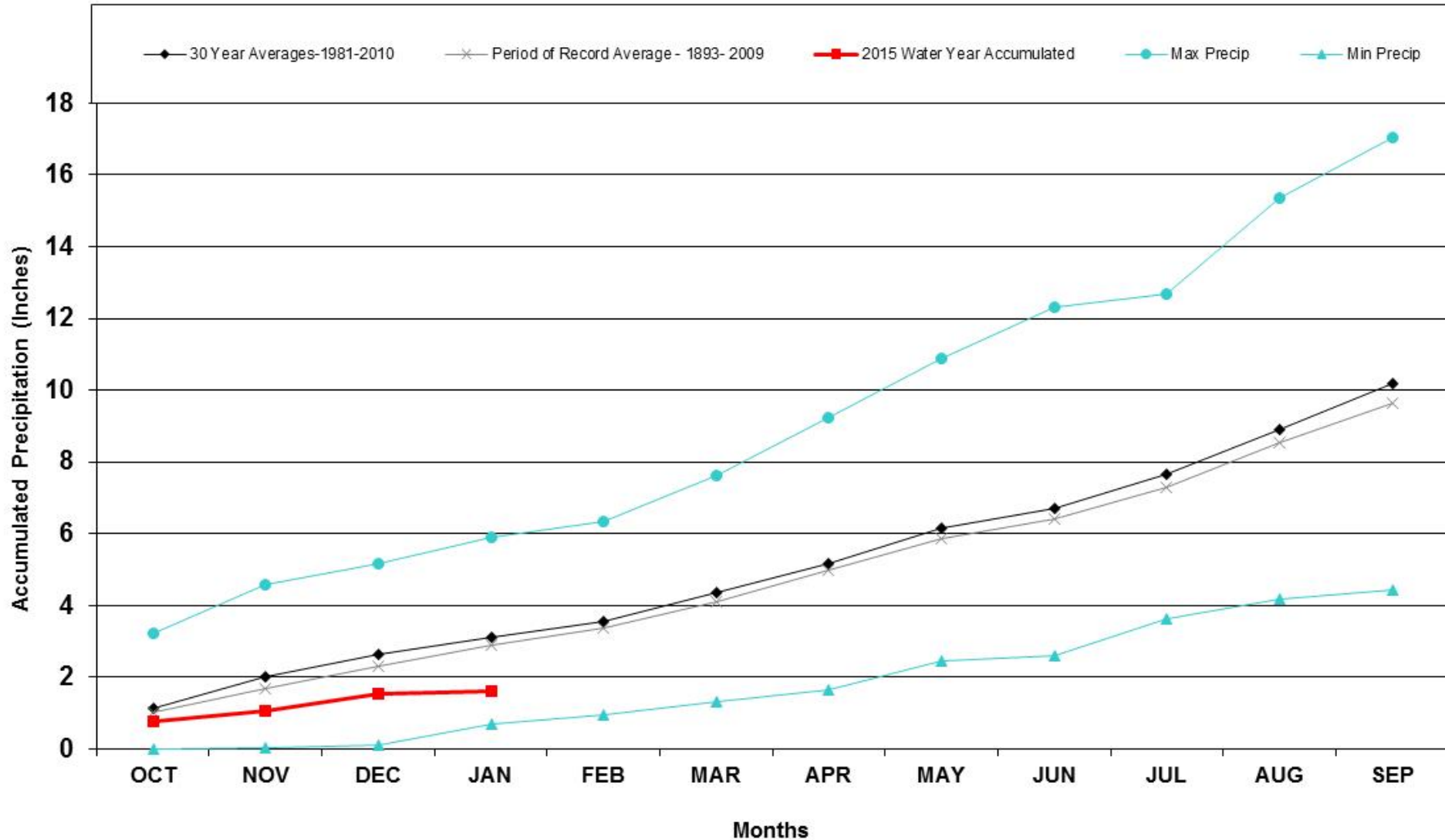
Division 2 – Grand Junction

Grand Junction Precipitation Accumulation



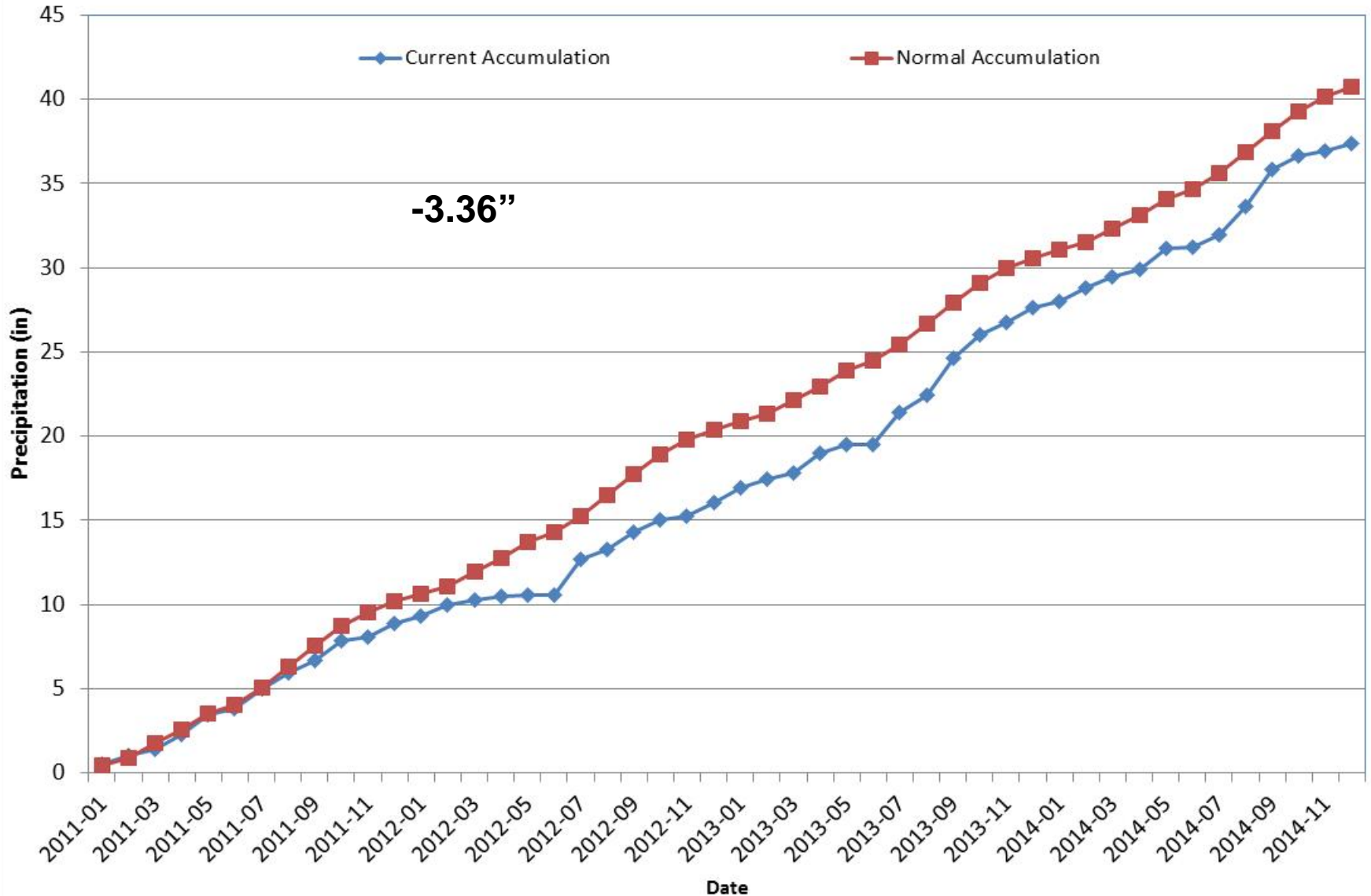
Division 3 – Montrose

Montrose #2 2015 Water Year



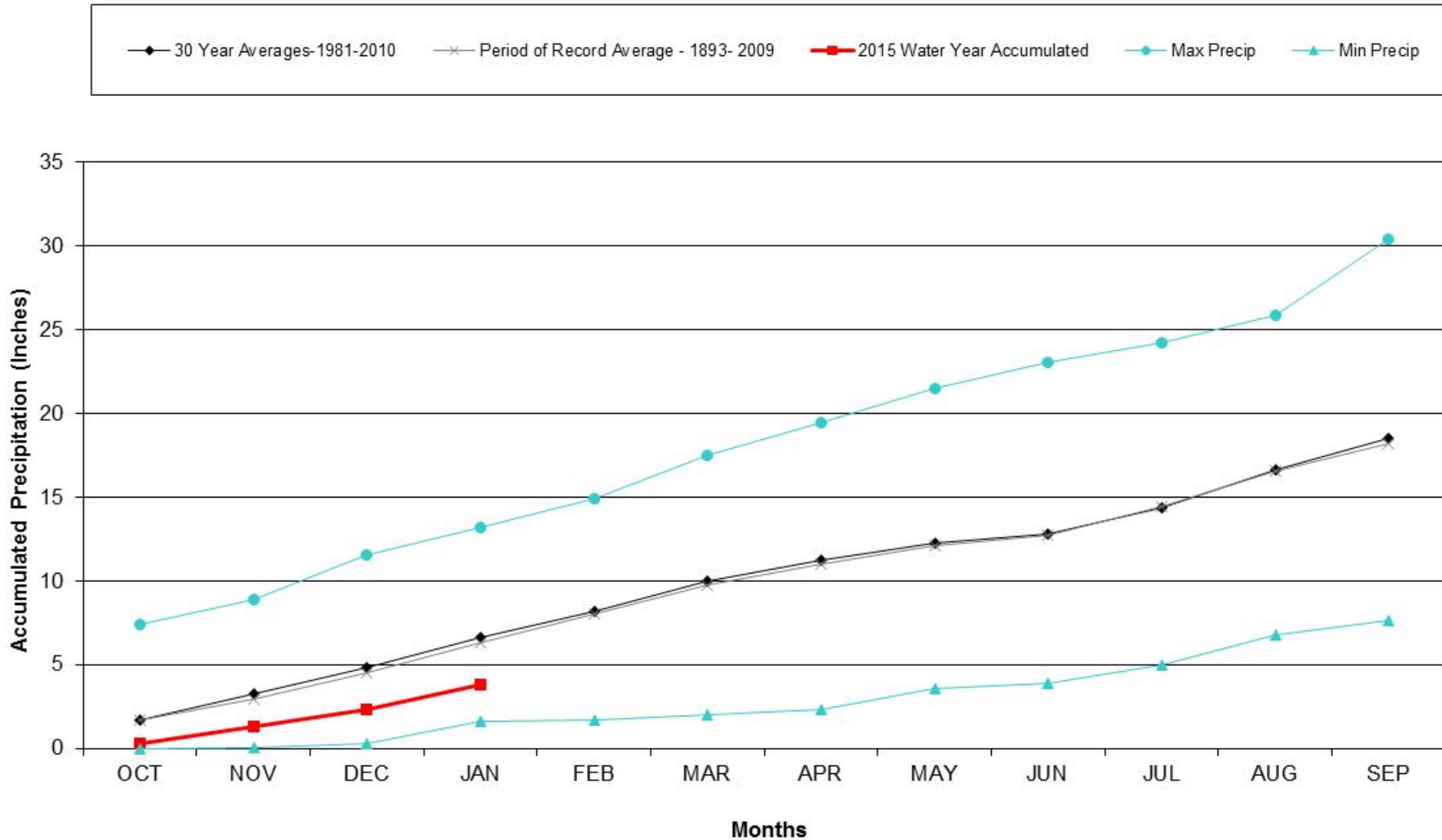
Division 3 – Montrose

Montrose #2 Precipitation Accumulation



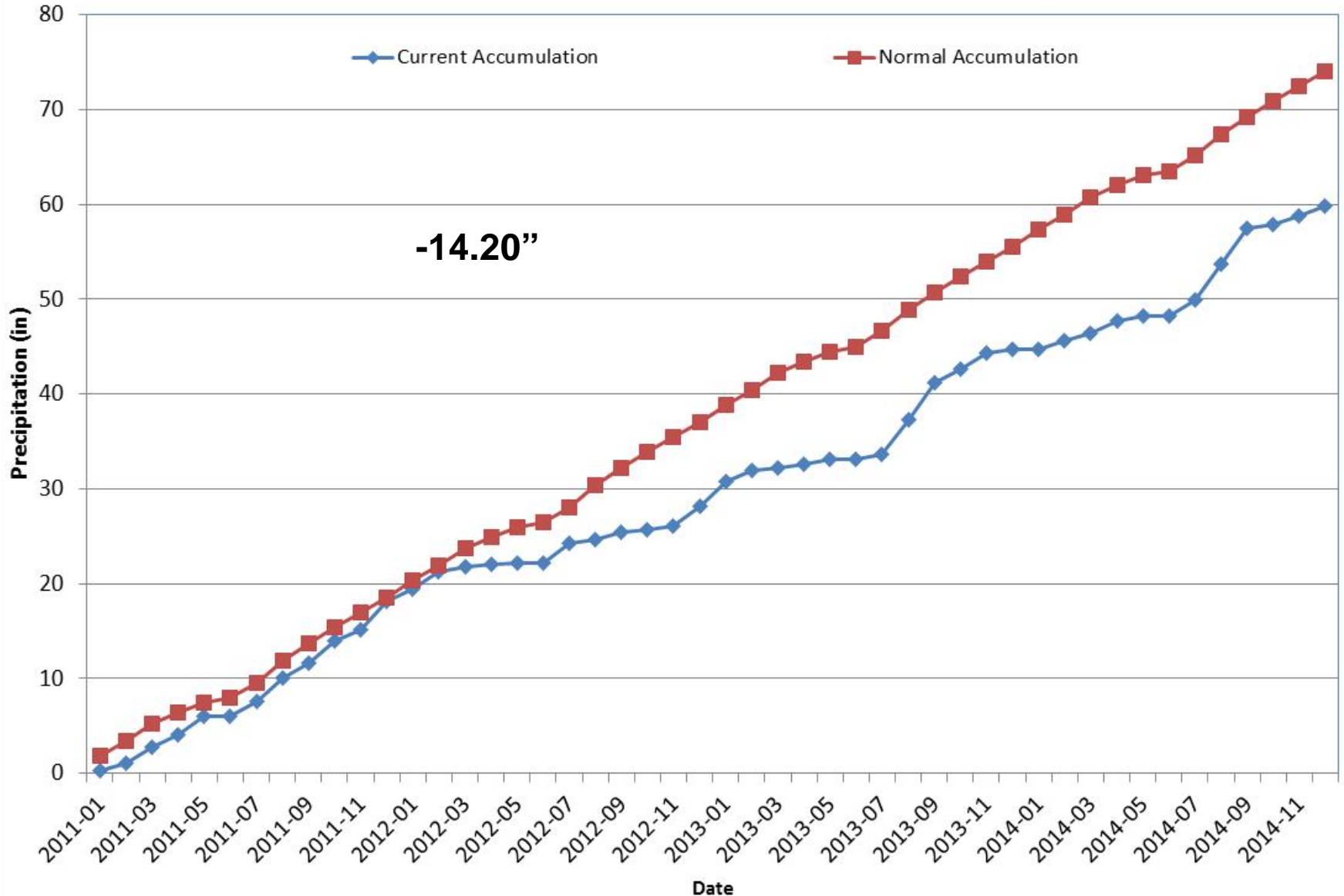
Division 3 – Mesa Verde NP

Mesa Verde NP 2015 Water Year



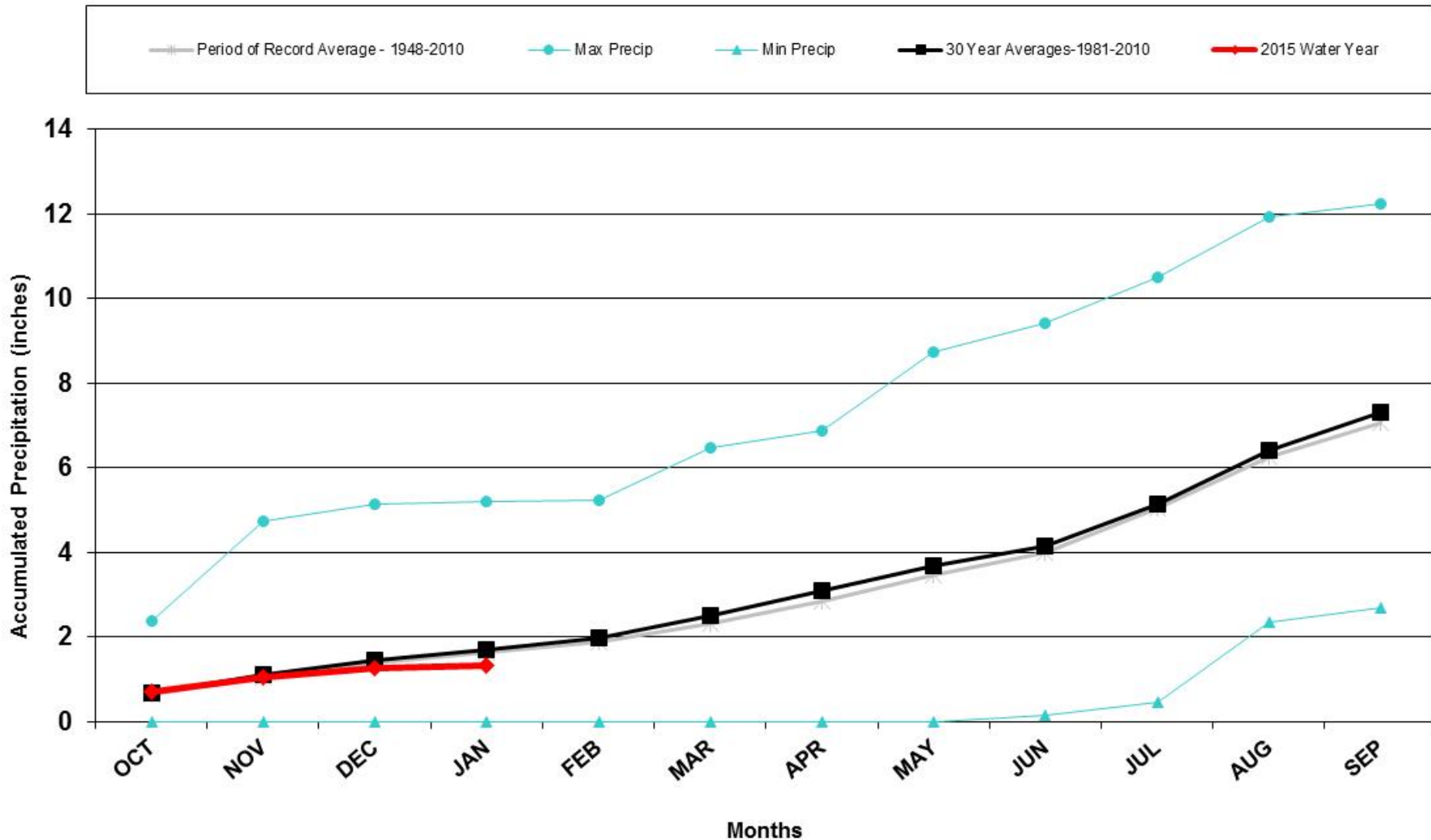
Division 3 – Mesa Verde NP

Mesa Verde NP Precipitation Accumulation



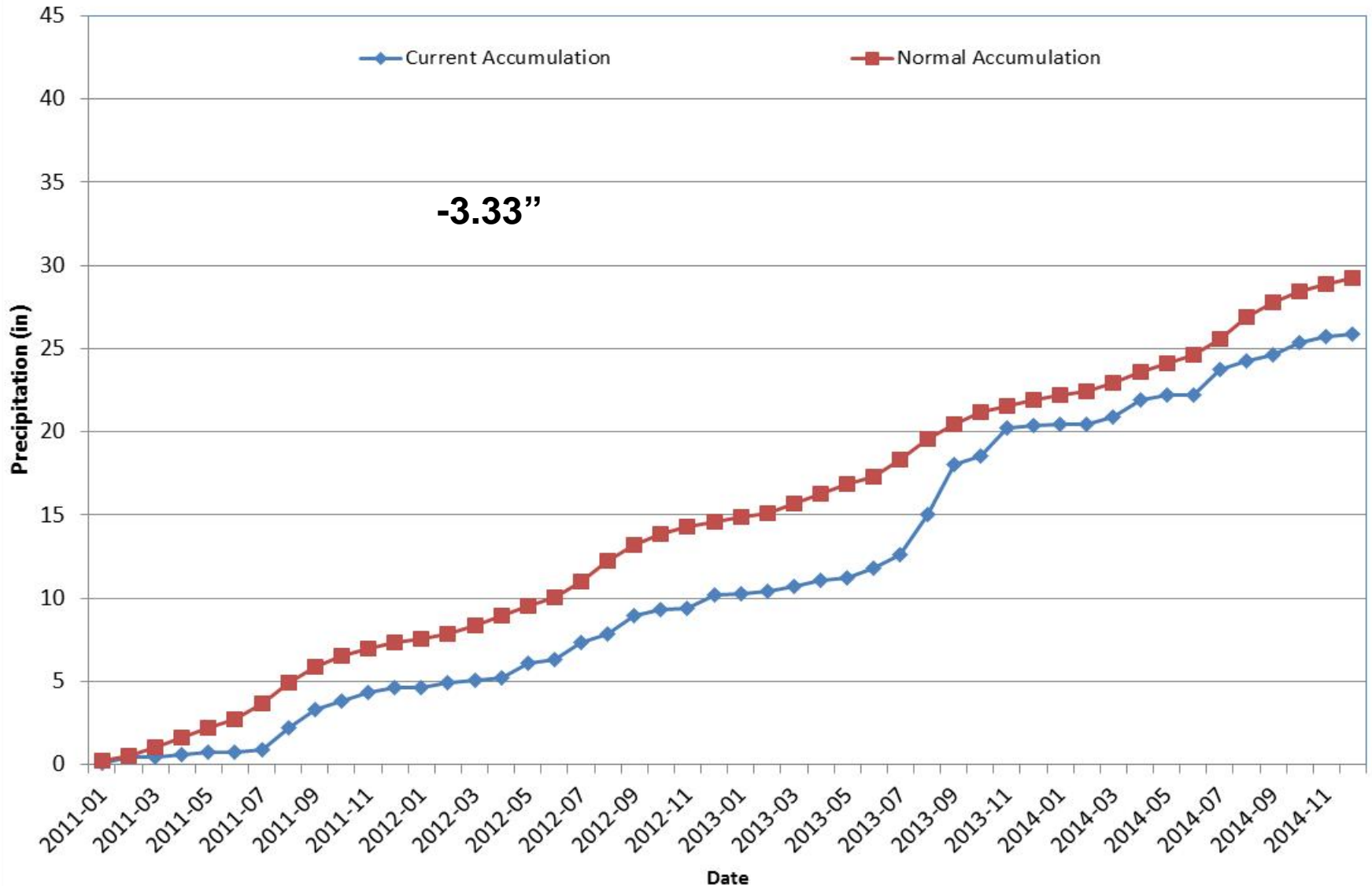
Division 4 – Alamosa

Alamosa WSO 2015 Water Year



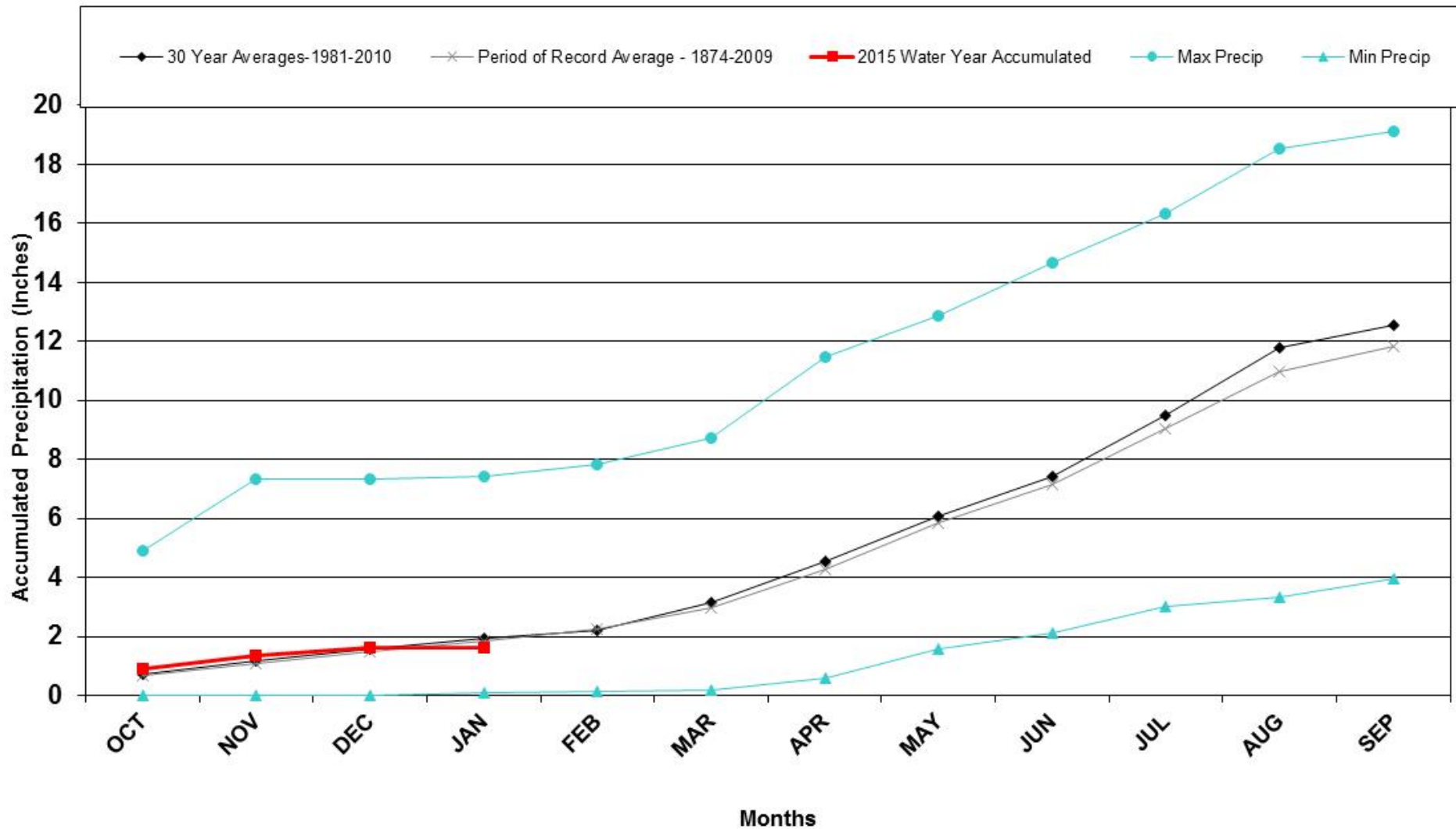
Division 4 – Alamosa

Alamosa WSO Precipitation Accumulation



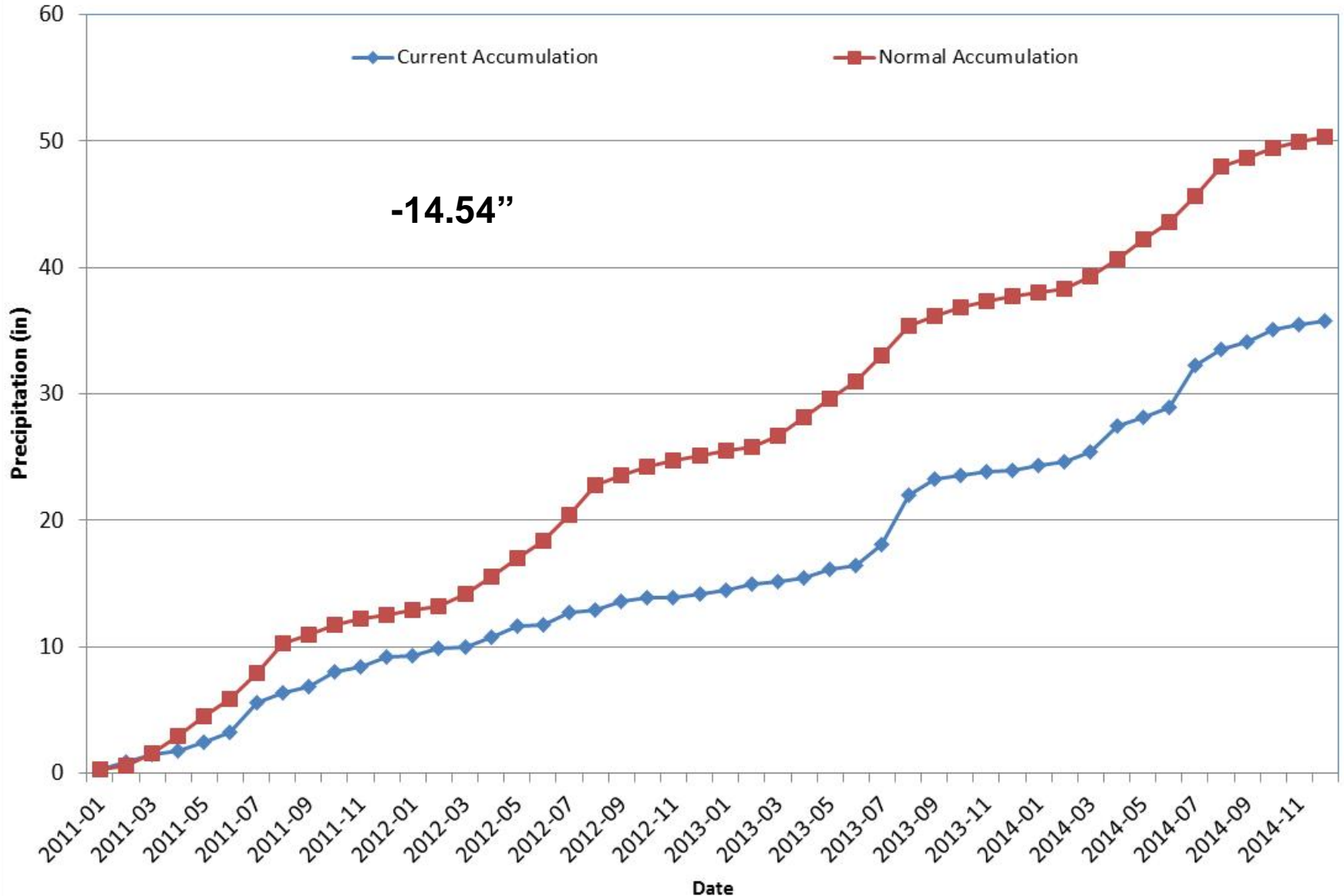
Division 5 – Pueblo

Pueblo WSO 2015 Water Year



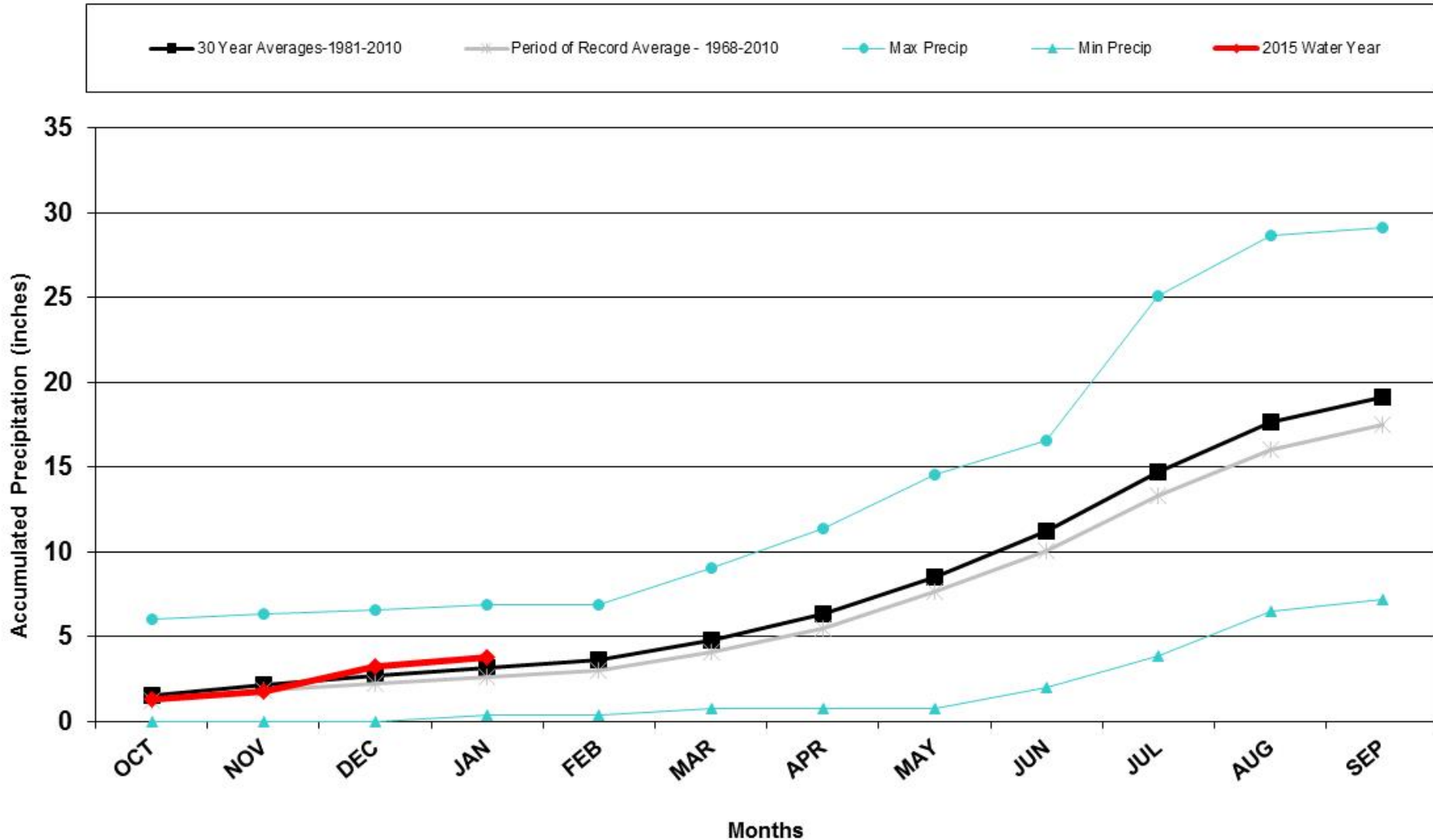
Division 5 – Pueblo

Pueblo Memorial AP Precipitation Accumulation



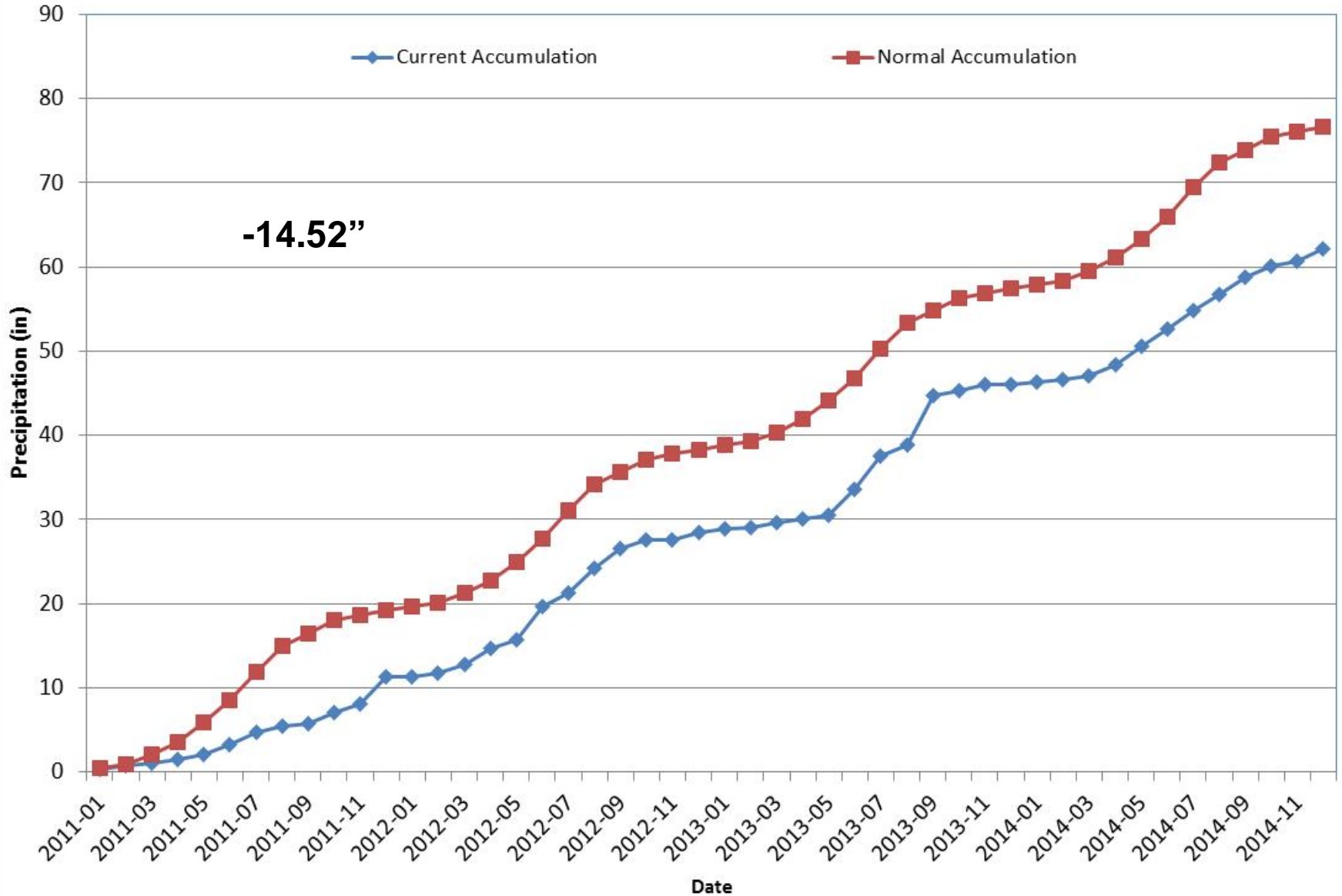
Division 6 - Walsh

Walsh 2015 Water Year



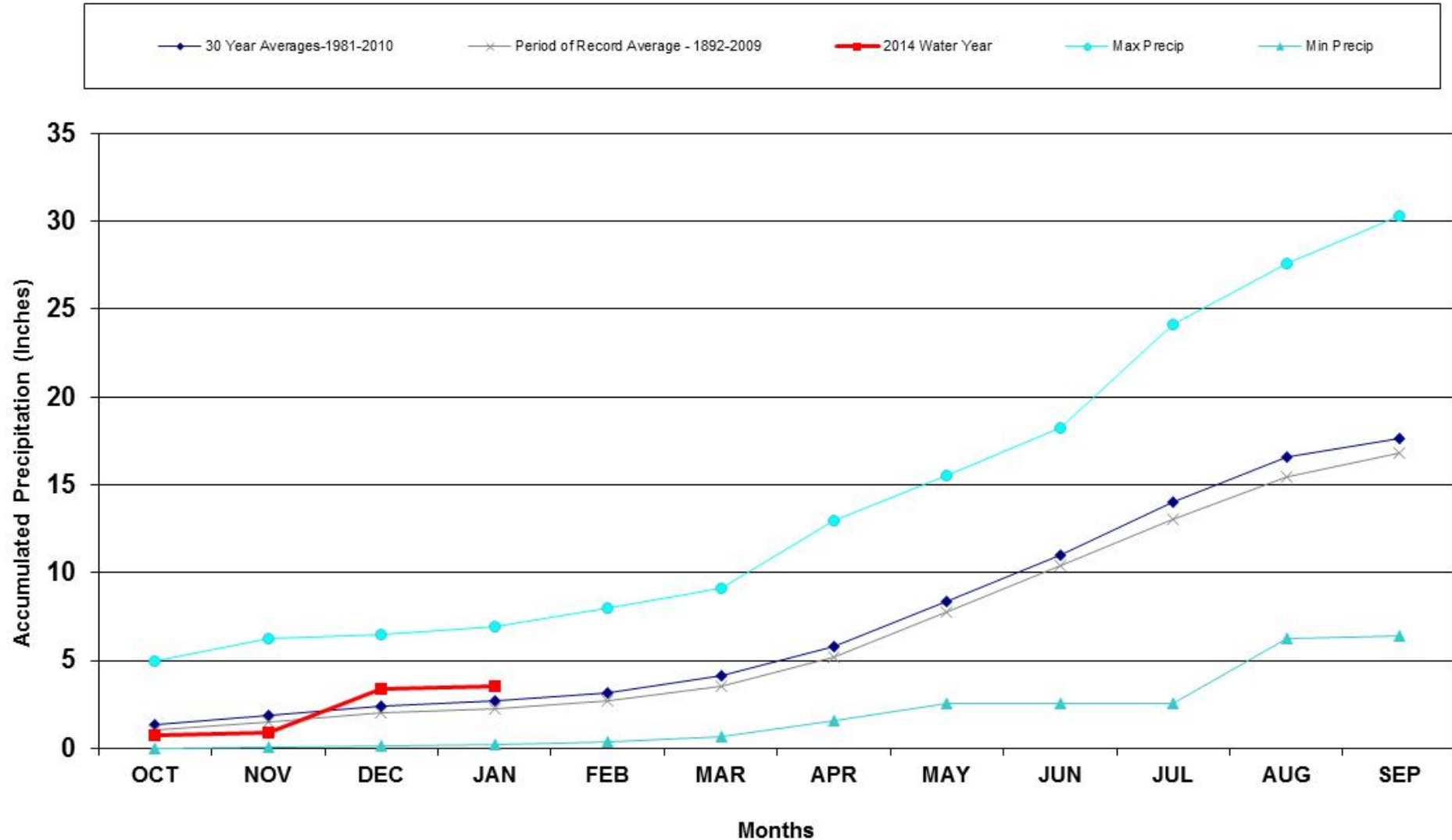
Division 6 - Walsh

Walsh 1W Precipitation Accumulation



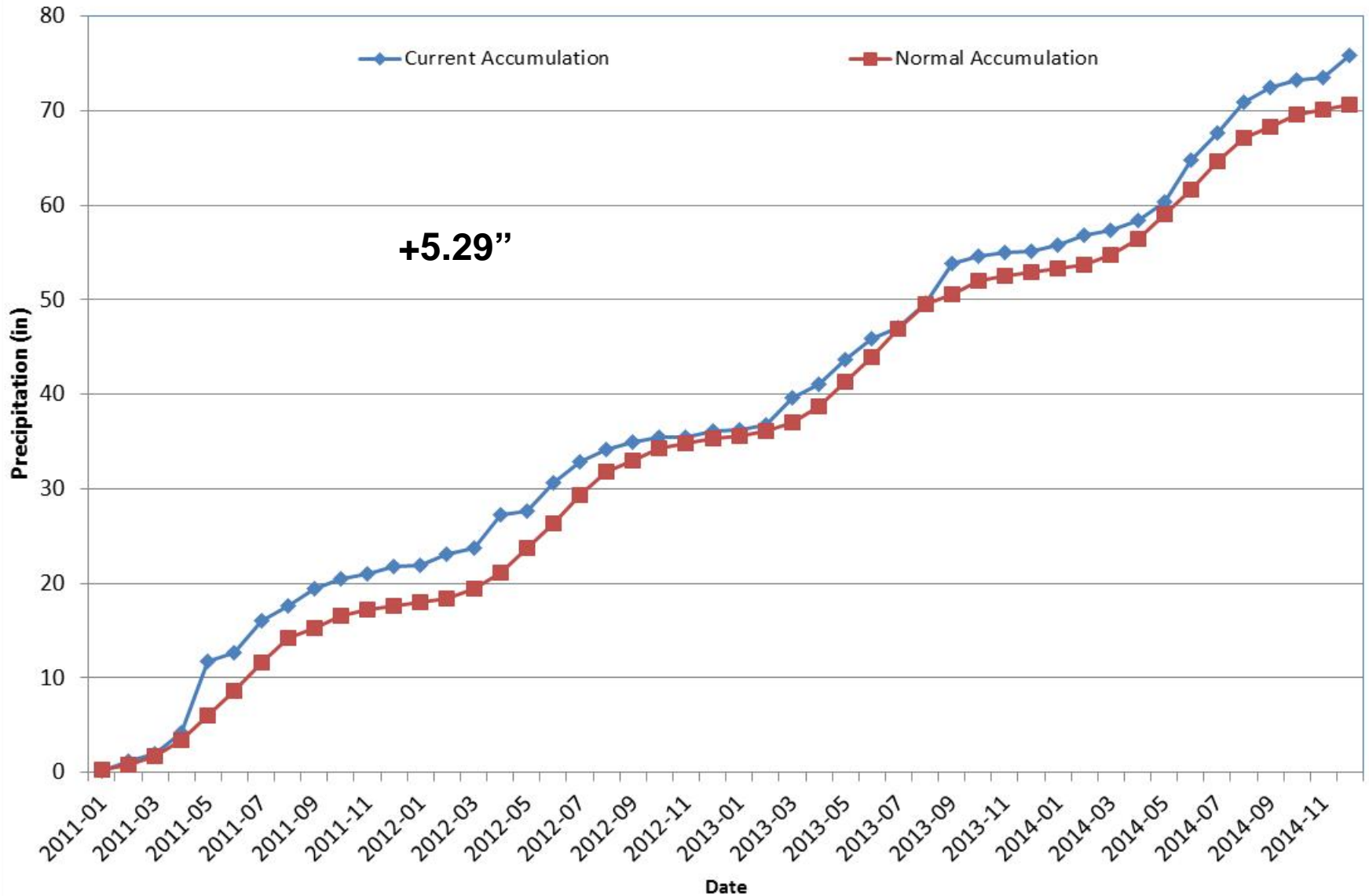
Division 6 - Burlington

Burlington 2015 Water Year



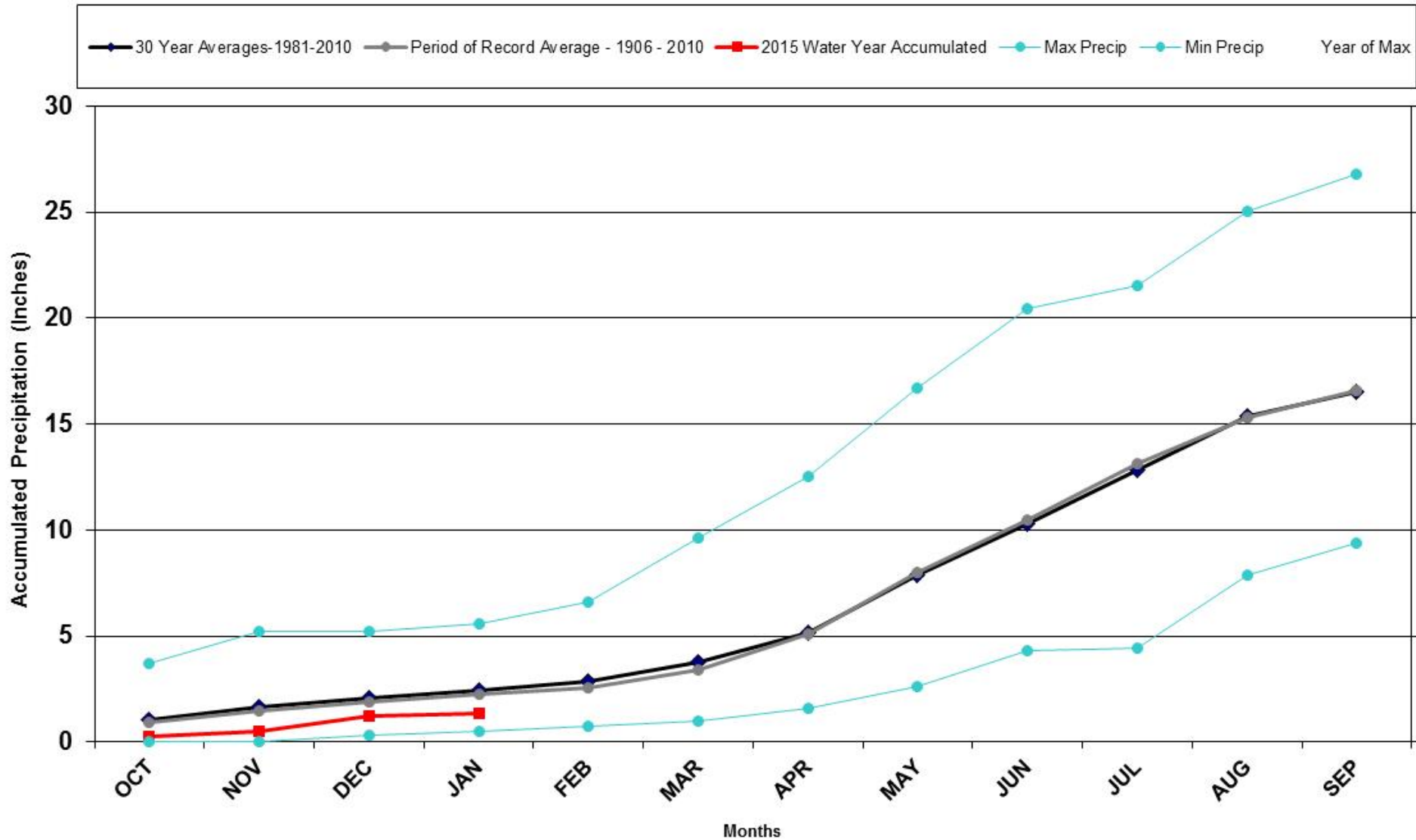
Division 6 - Burlington

Burlington, CO Precipitation Accumulation



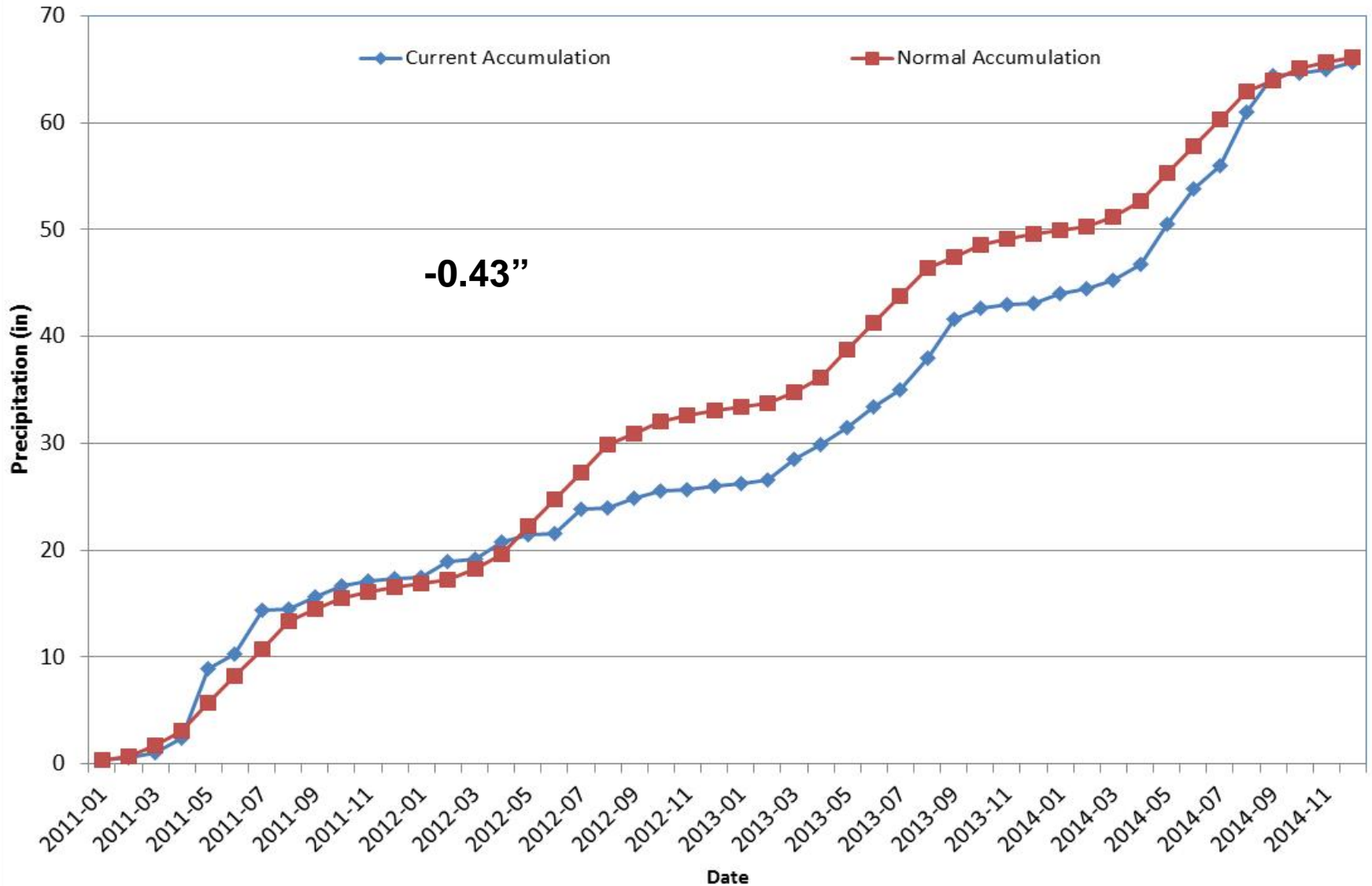
Division 7 – Akron

Akron 4E 2015 Water Year



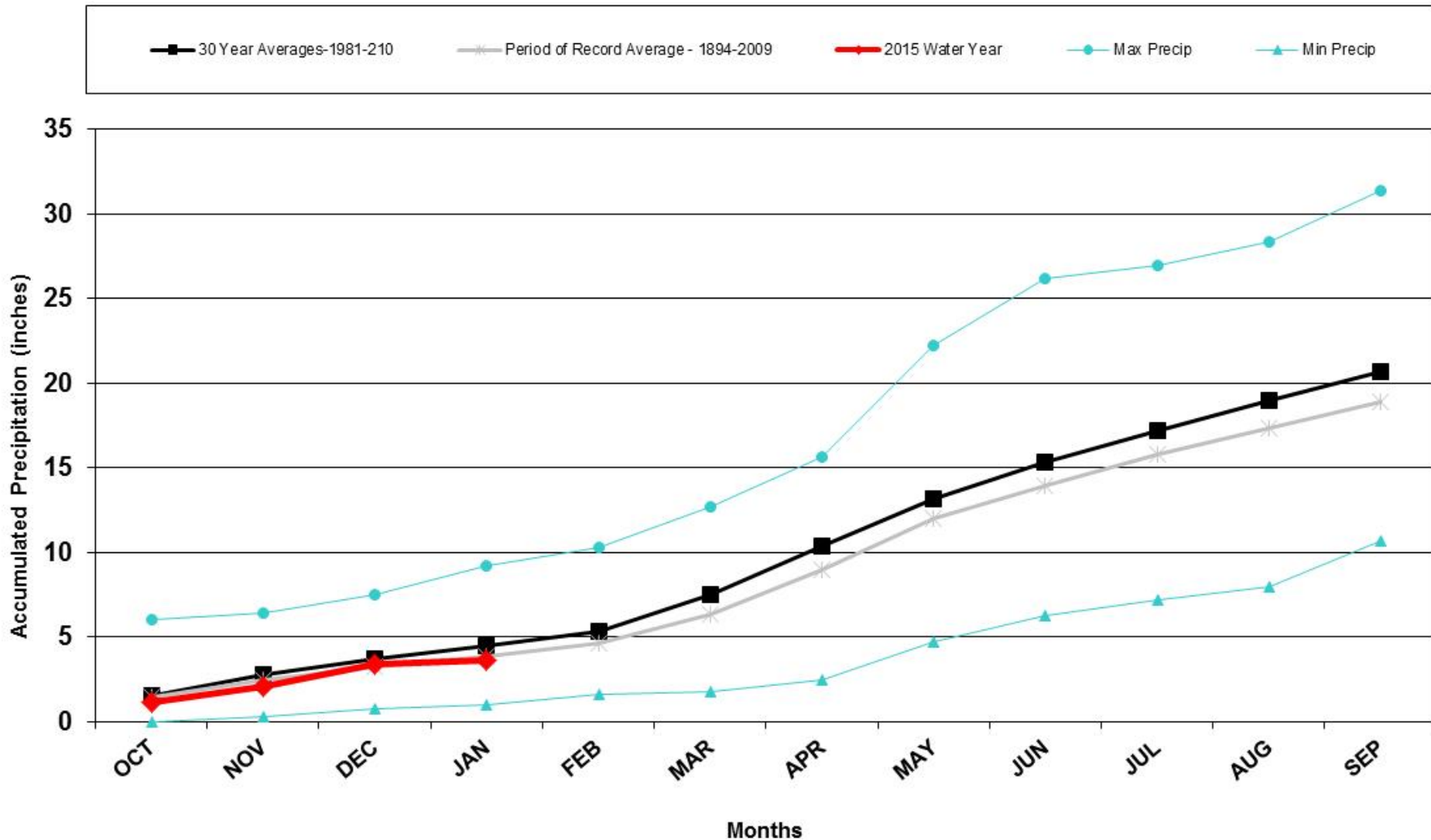
Division 7 – Akron

Akron 4E Precipitation Accumulation



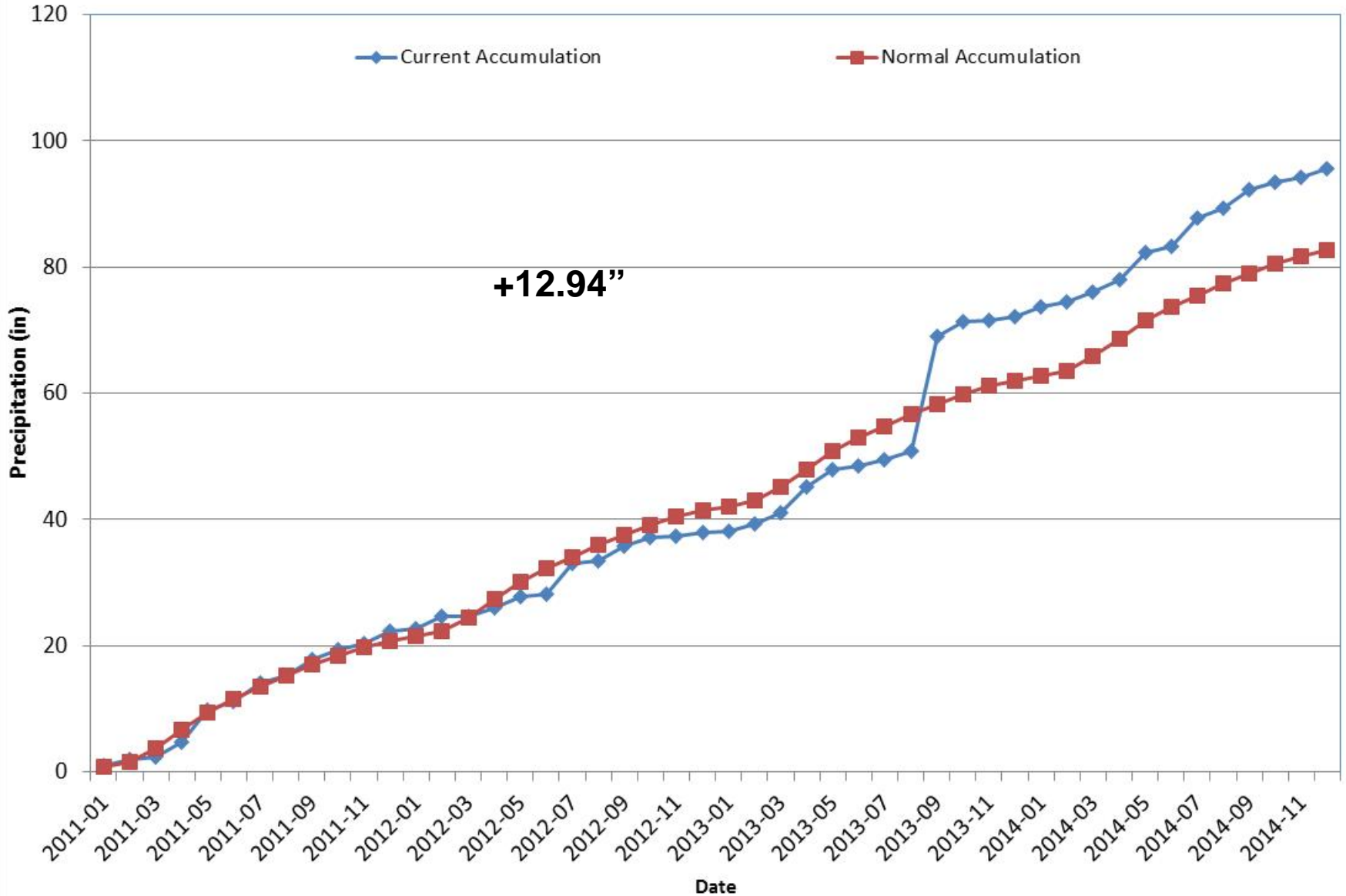
Division 8 - Boulder

Boulder 2015 Water Year



Division 8 - Boulder

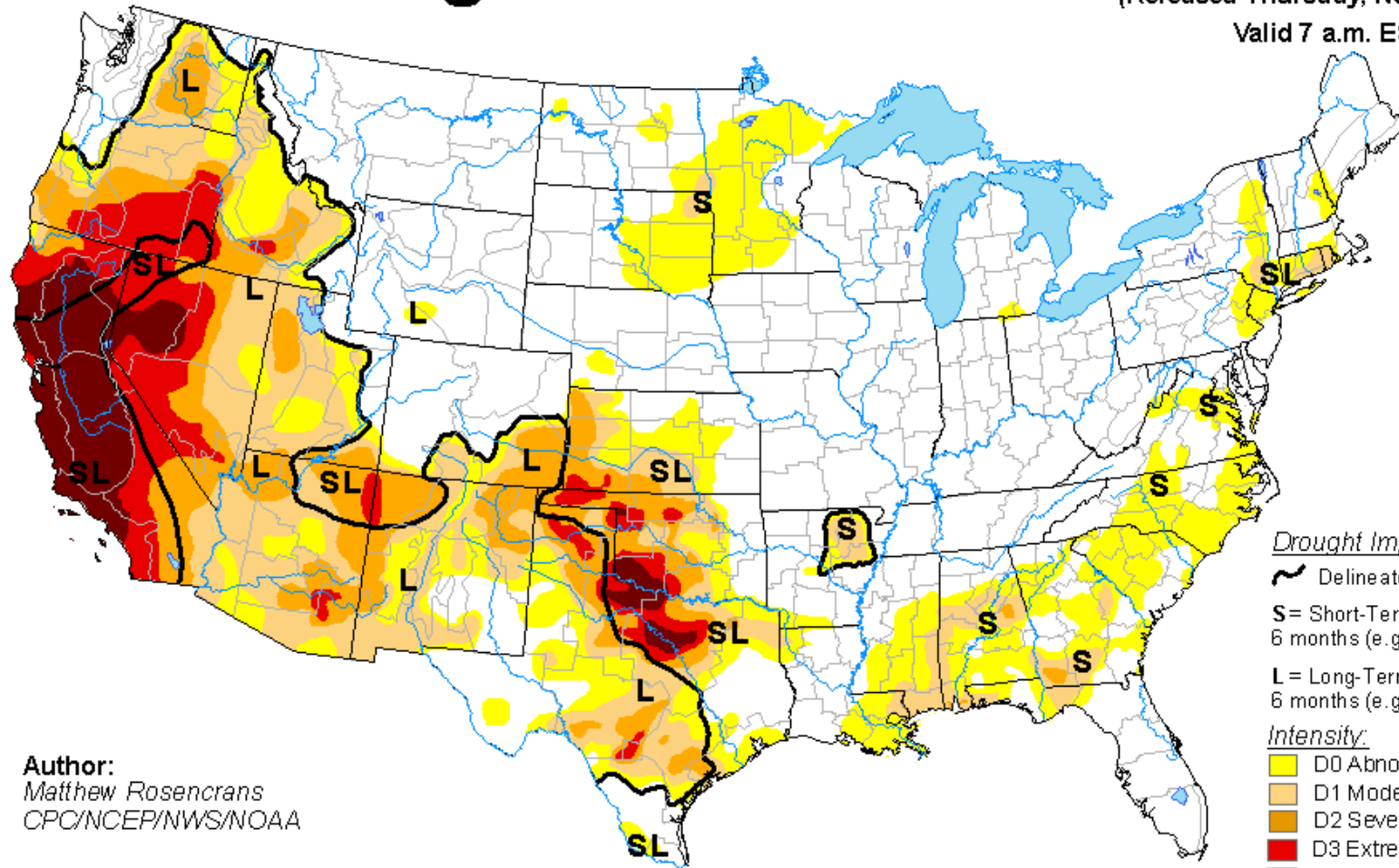
Boulder Precipitation Accumulation



U.S. Drought Monitor

November 11, 2014
(Released Thursday, Nov. 13, 2014)

Valid 7 a.m. EST



Author:
Matthew Rosencrans
CPC/NCEP/NWS/NOAA

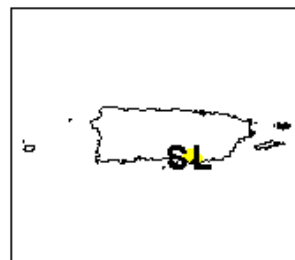
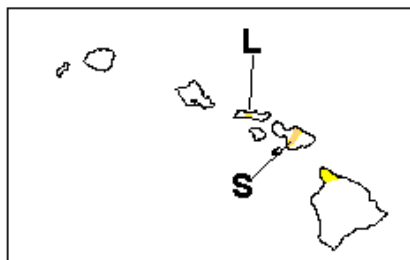
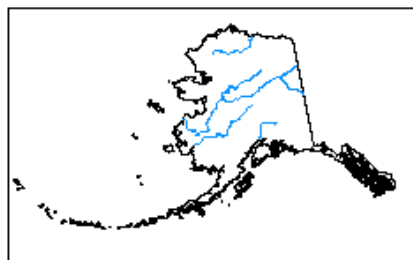
Drought Impact Types:

- ~ 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.



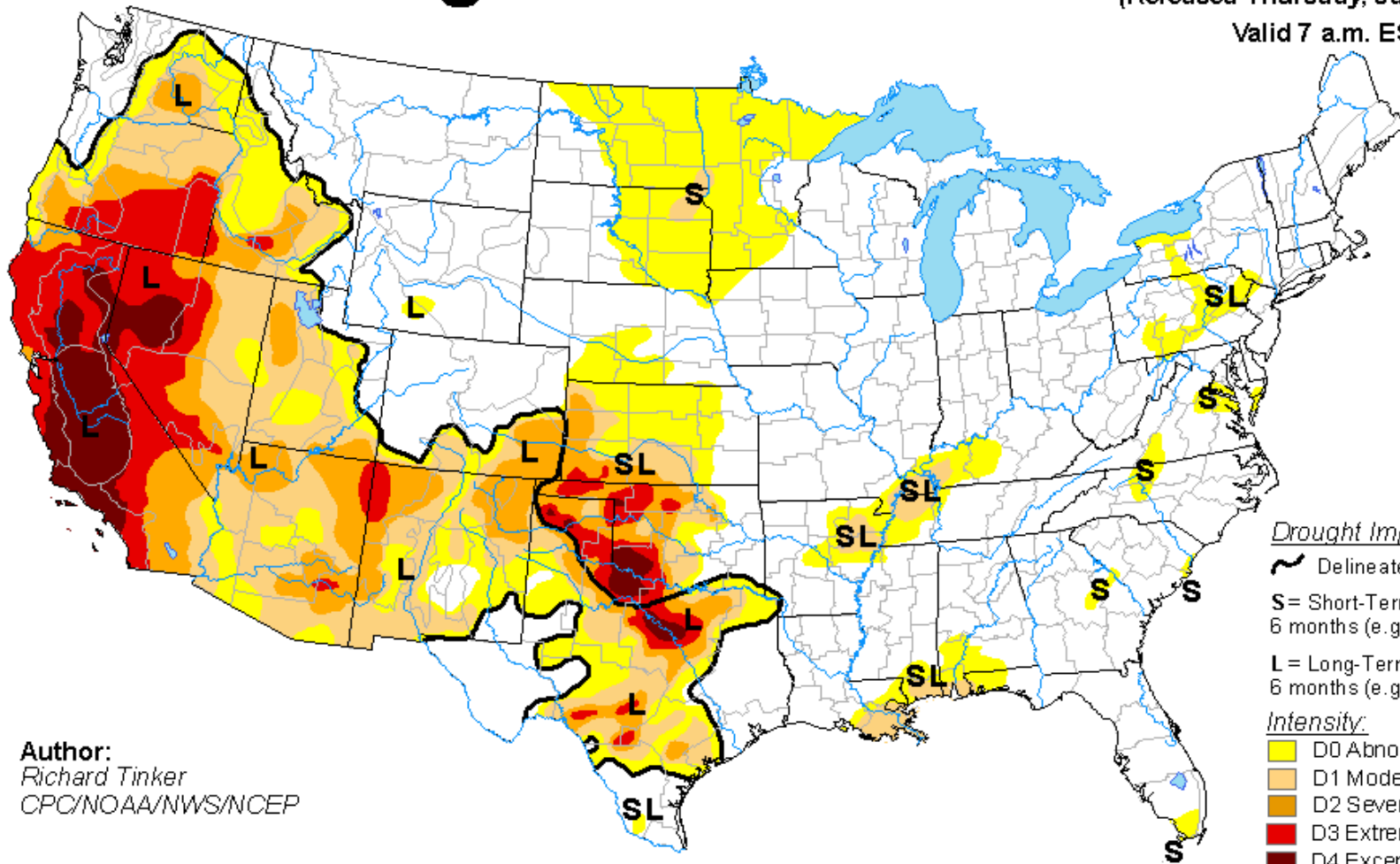
<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor

January 13, 2015

(Released Thursday, Jan. 15, 2015)

Valid 7 a.m. EST



Author:
Richard Tinker
CPC/NOAA/NWS/NCEP

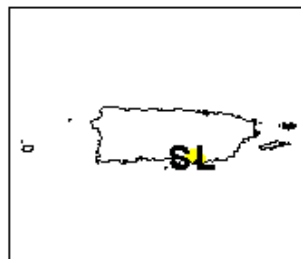
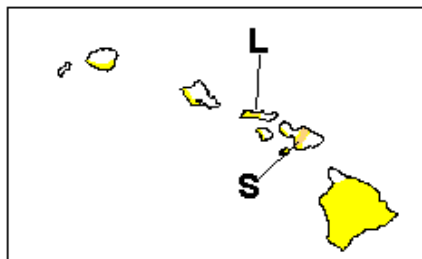
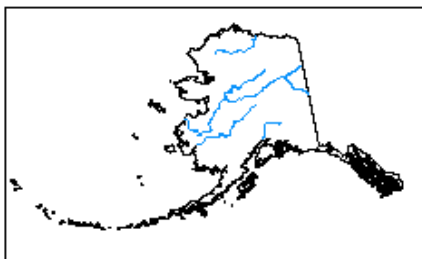
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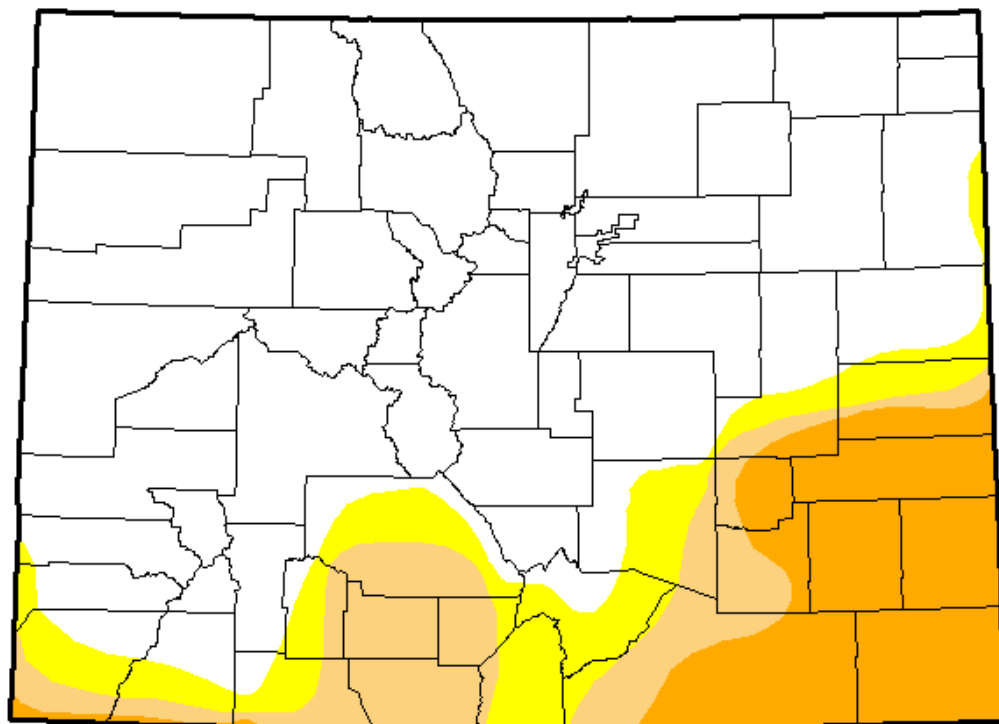
<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor Colorado

January 13, 2015
(Released Thursday, Jan. 15, 2015)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	69.87	30.13	21.26	12.26	0.00	0.00
Last Week <i>1/6/2015</i>	69.87	30.13	21.26	12.26	0.00	0.00
3 Months Ago <i>10/14/2014</i>	69.97	30.03	21.28	12.26	0.00	0.00
Start of Calendar Year <i>12/31/2014</i>	69.87	30.13	21.26	12.26	0.00	0.00
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>1/14/2014</i>	31.96	68.04	22.52	13.56	4.01	1.47



Intensity:



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

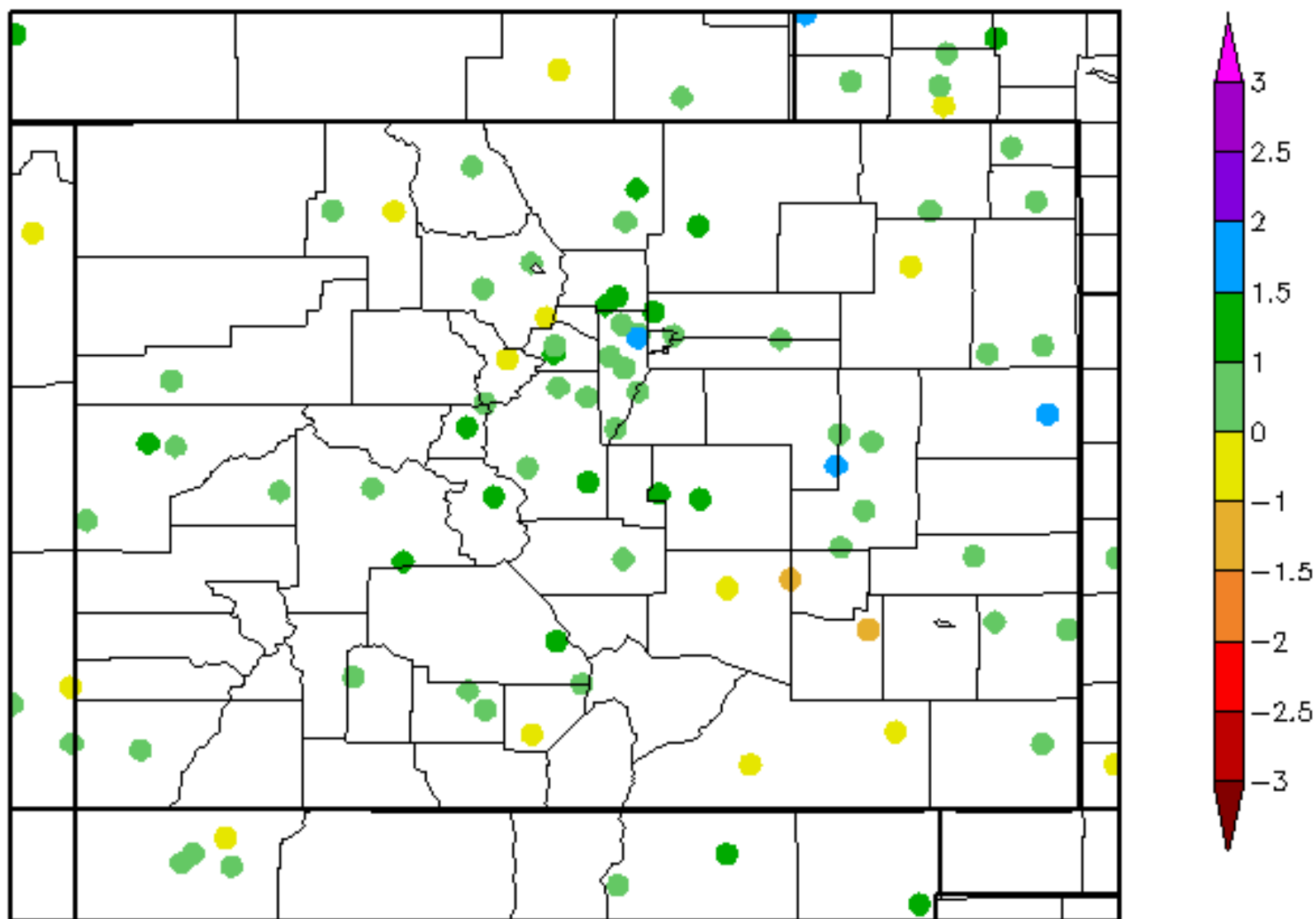
Author:

Richard Tinker
CPC/NOAA/NWS/NCEP



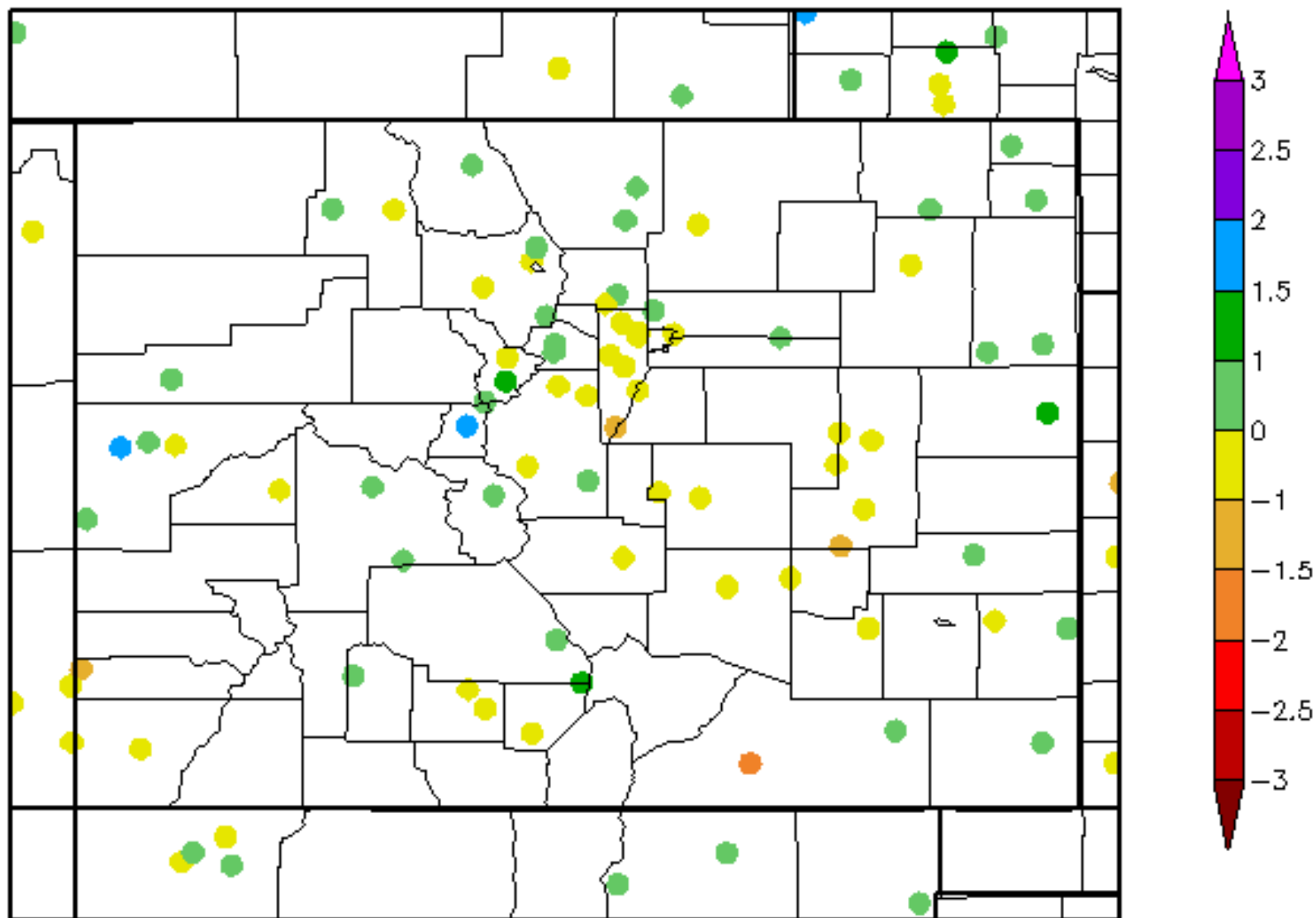
30 Day SPI

12/20/2014 - 1/18/2015



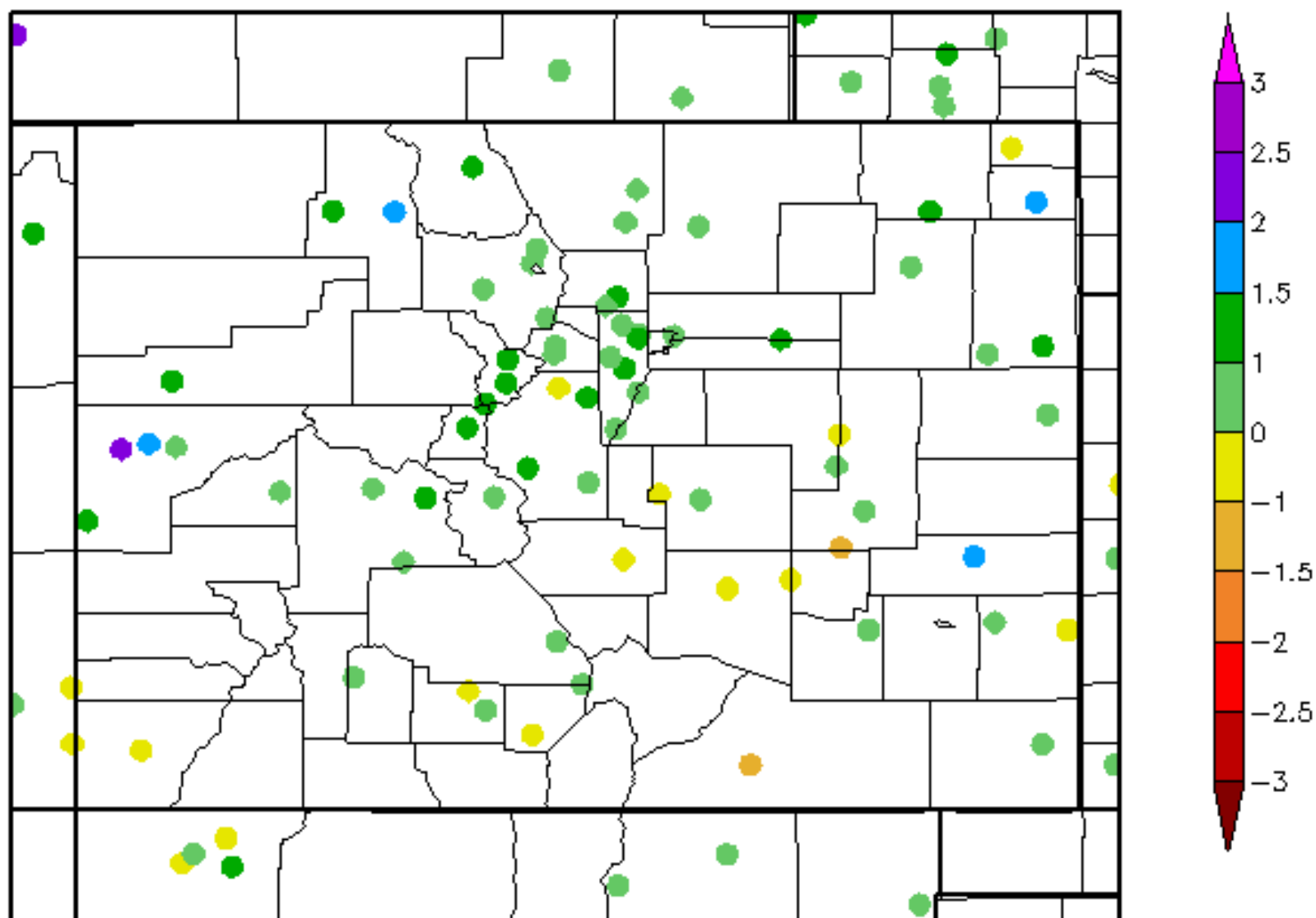
90 Day SPI

10/21/2014 - 1/18/2015



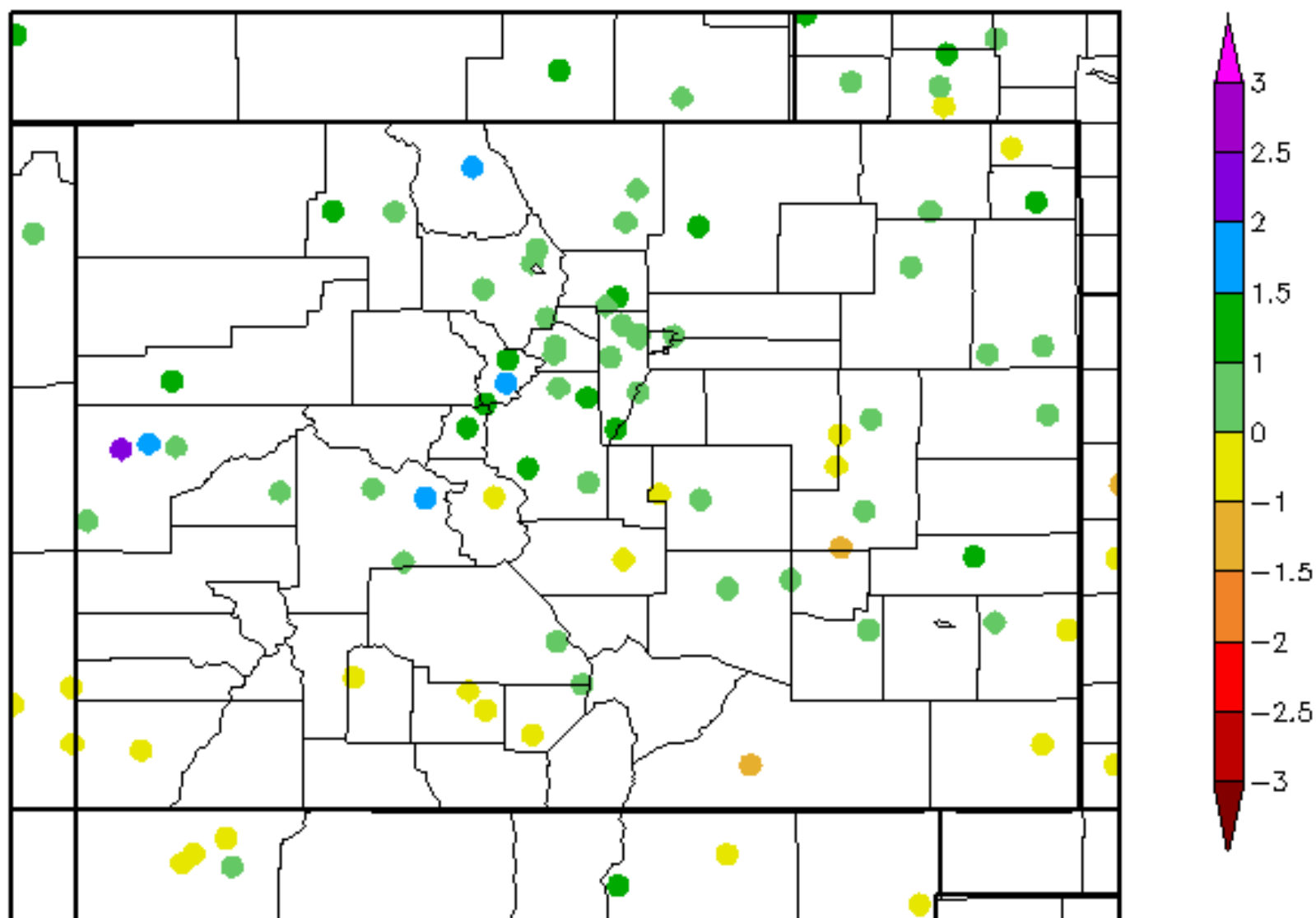
6 Month SPI

7/19/2014 - 1/18/2015



12 Month SPI

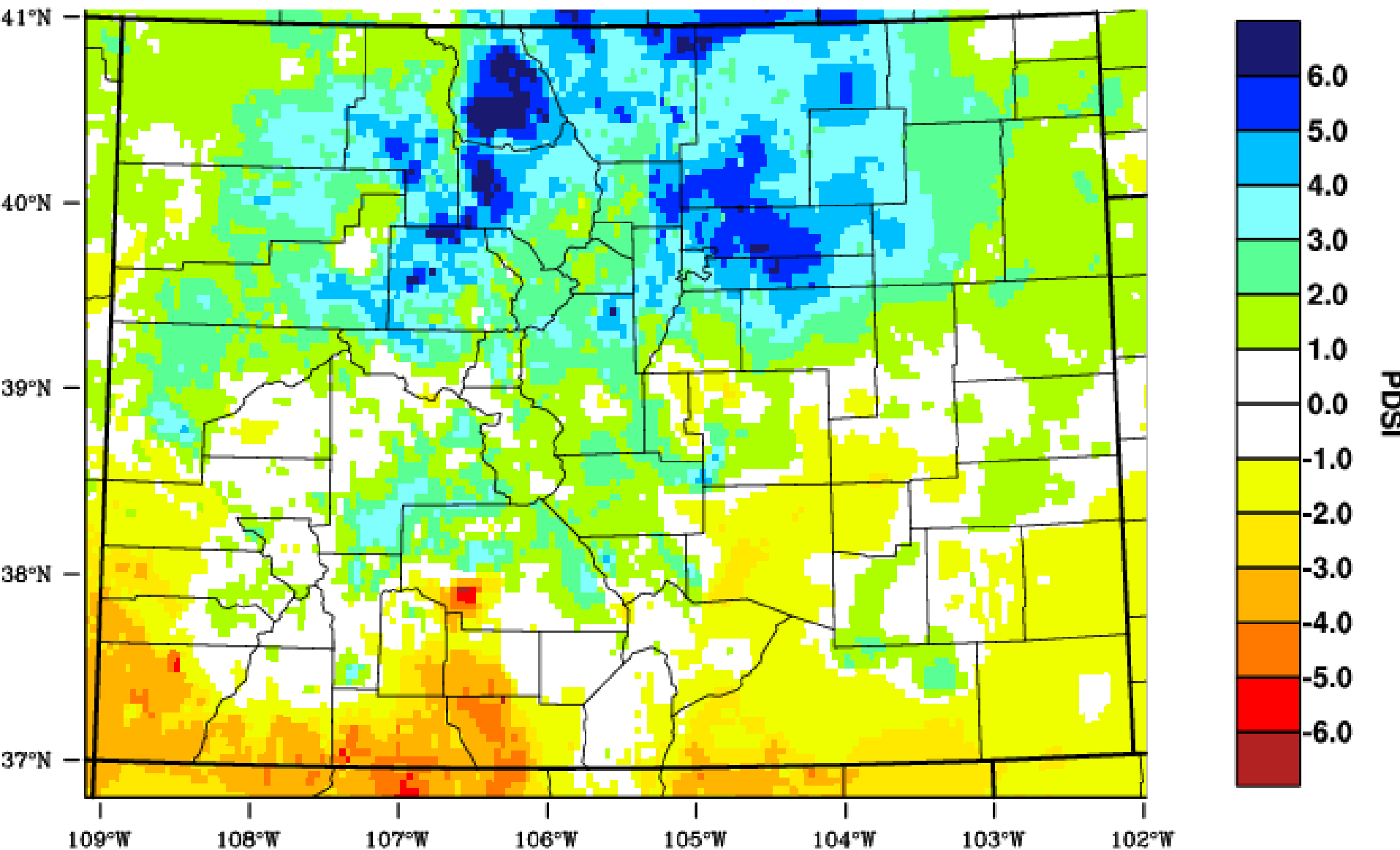
1/19/2014 - 1/18/2015



Palmer

Colorado - PDSI

December 2014



WestWide Drought Tracker - WRCC/UI Data Source - PRISM (Prelim), created 16 JAN 2015

Colorado Climate Center

Data and Power Point Presentations available for downloading

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

