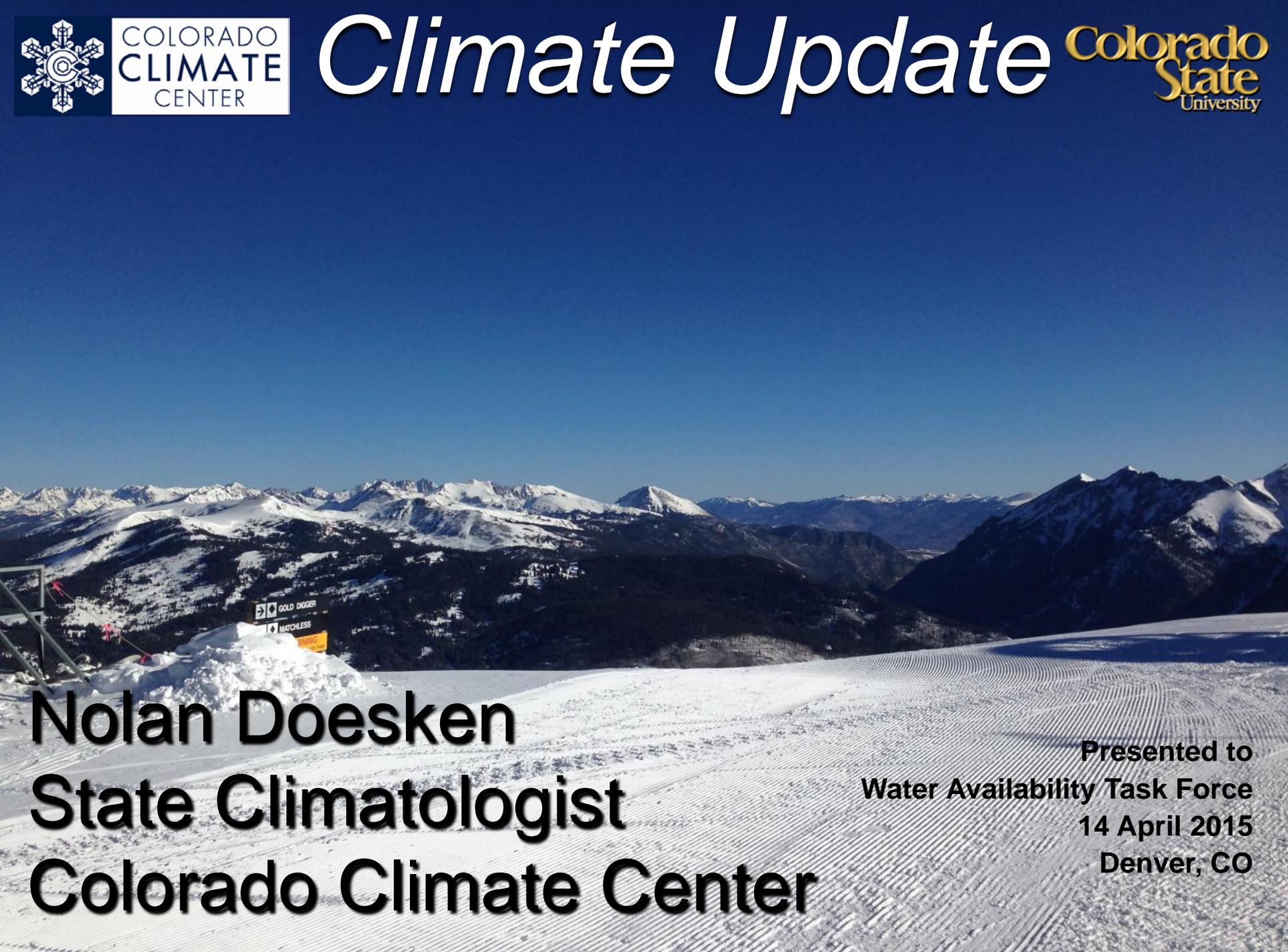




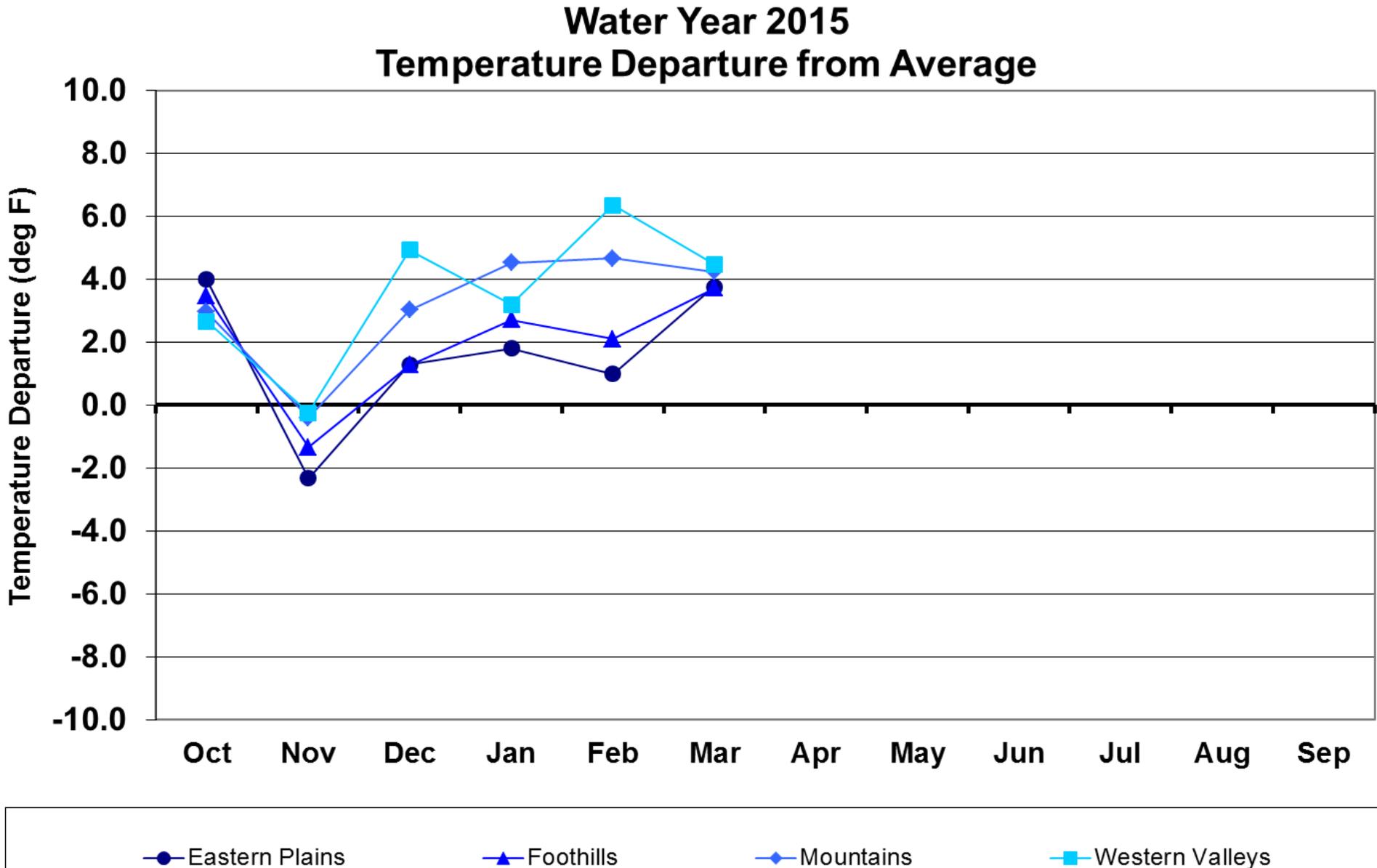
Climate Update



Nolan Doesken
State Climatologist
Colorado Climate Center

Presented to
Water Availability Task Force
14 April 2015
Denver, CO

Water Year 2015 Temperature Departures



March Average Temperature History for Colorado (NCDC)

Colorado, Average Temperature, March

40.4 F (+6.7) Ranks

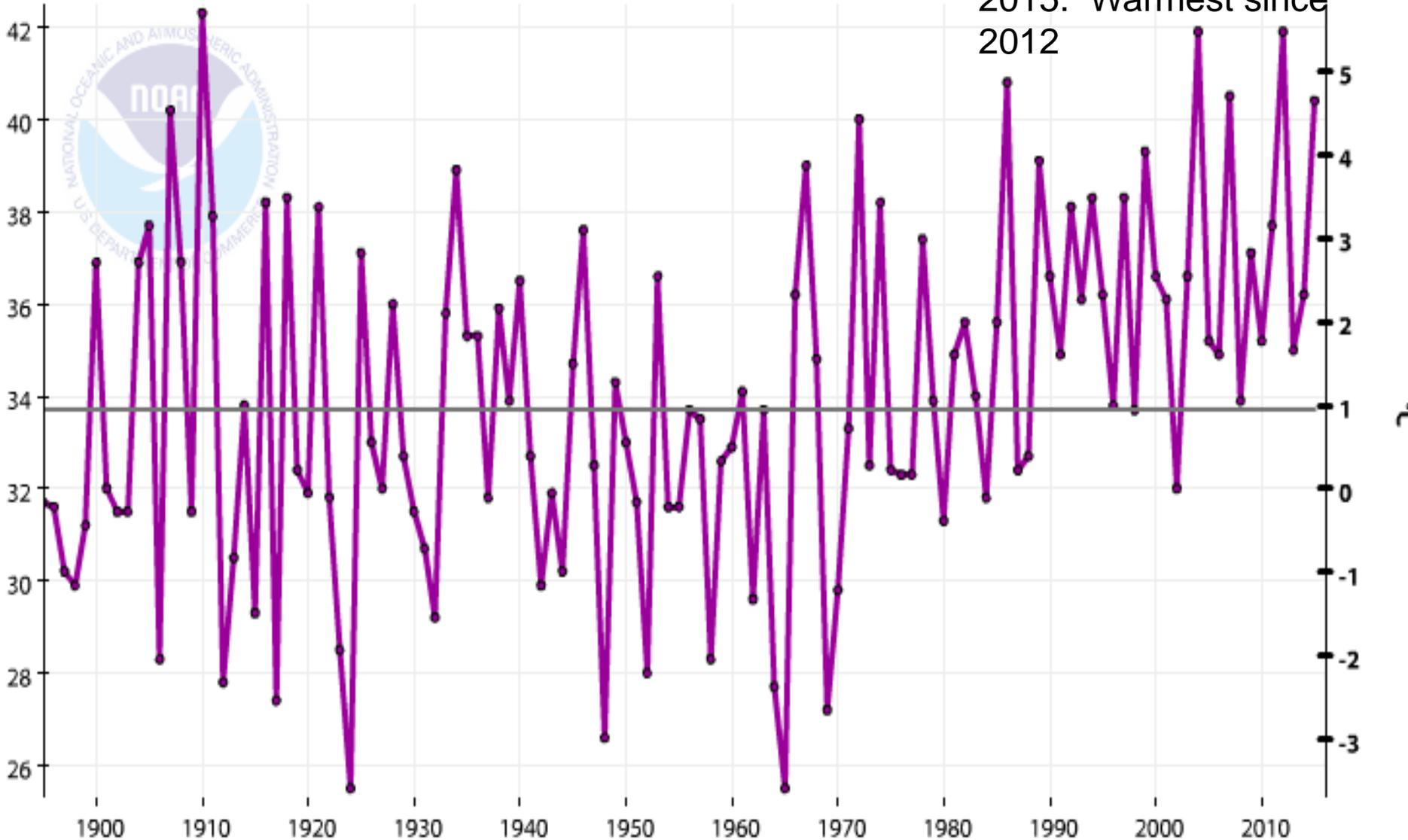
6th warmest 1895-

2015. Warmest since

2012

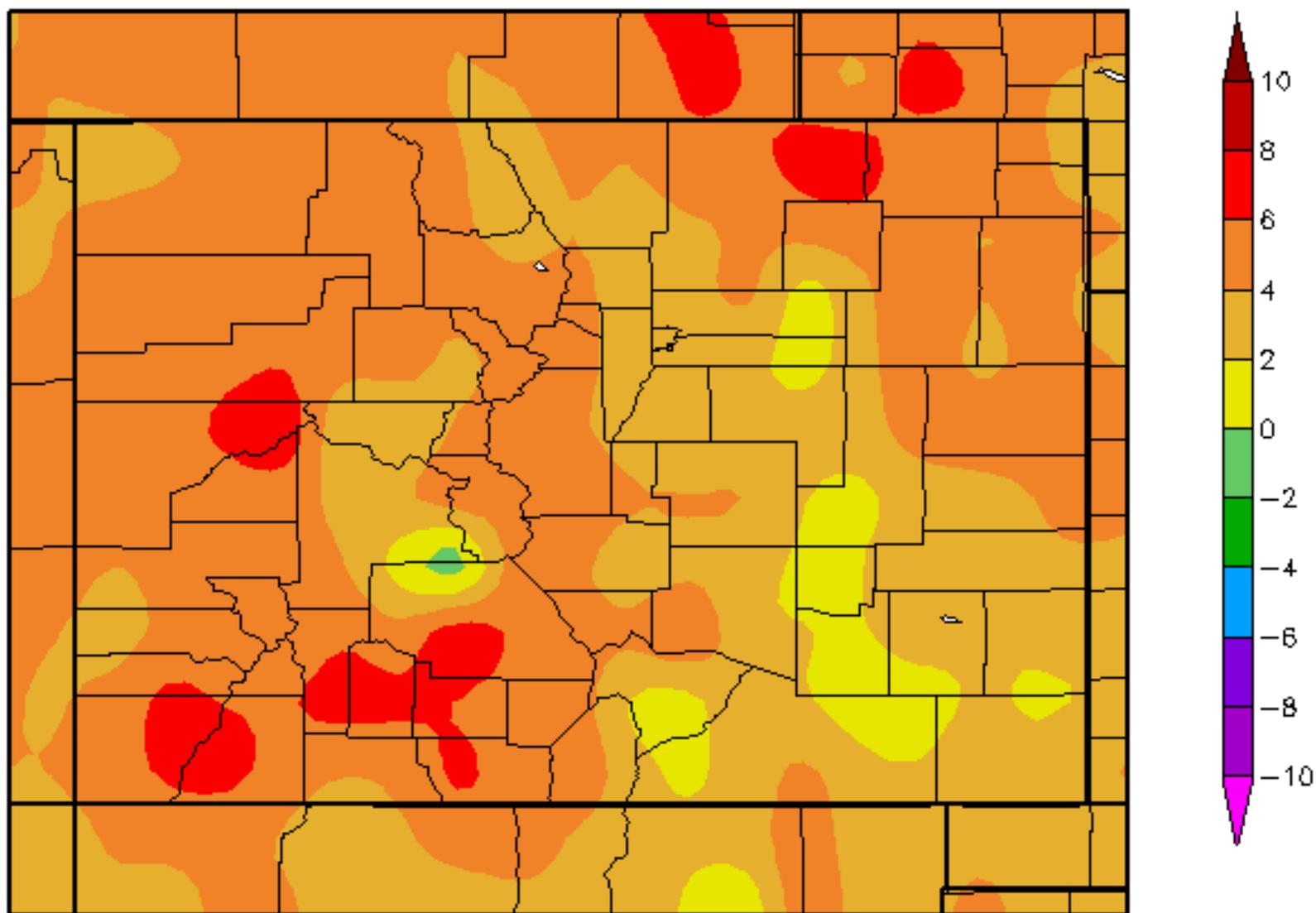
— 1901-2000
Avg: 33.7°F

—●— Avg Temperature



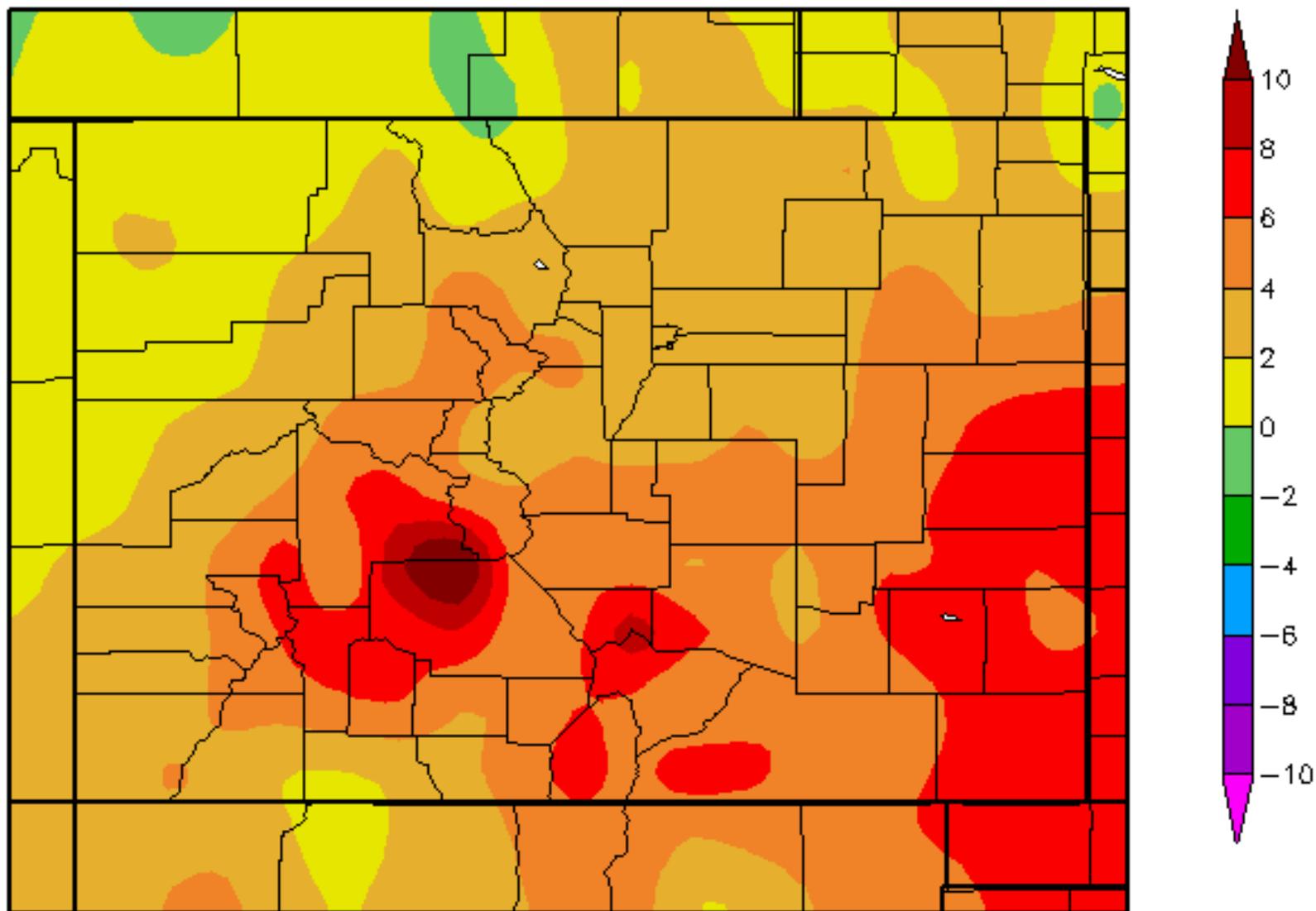
Departure from Normal Temperature (F)

3/1/2015 – 3/31/2015

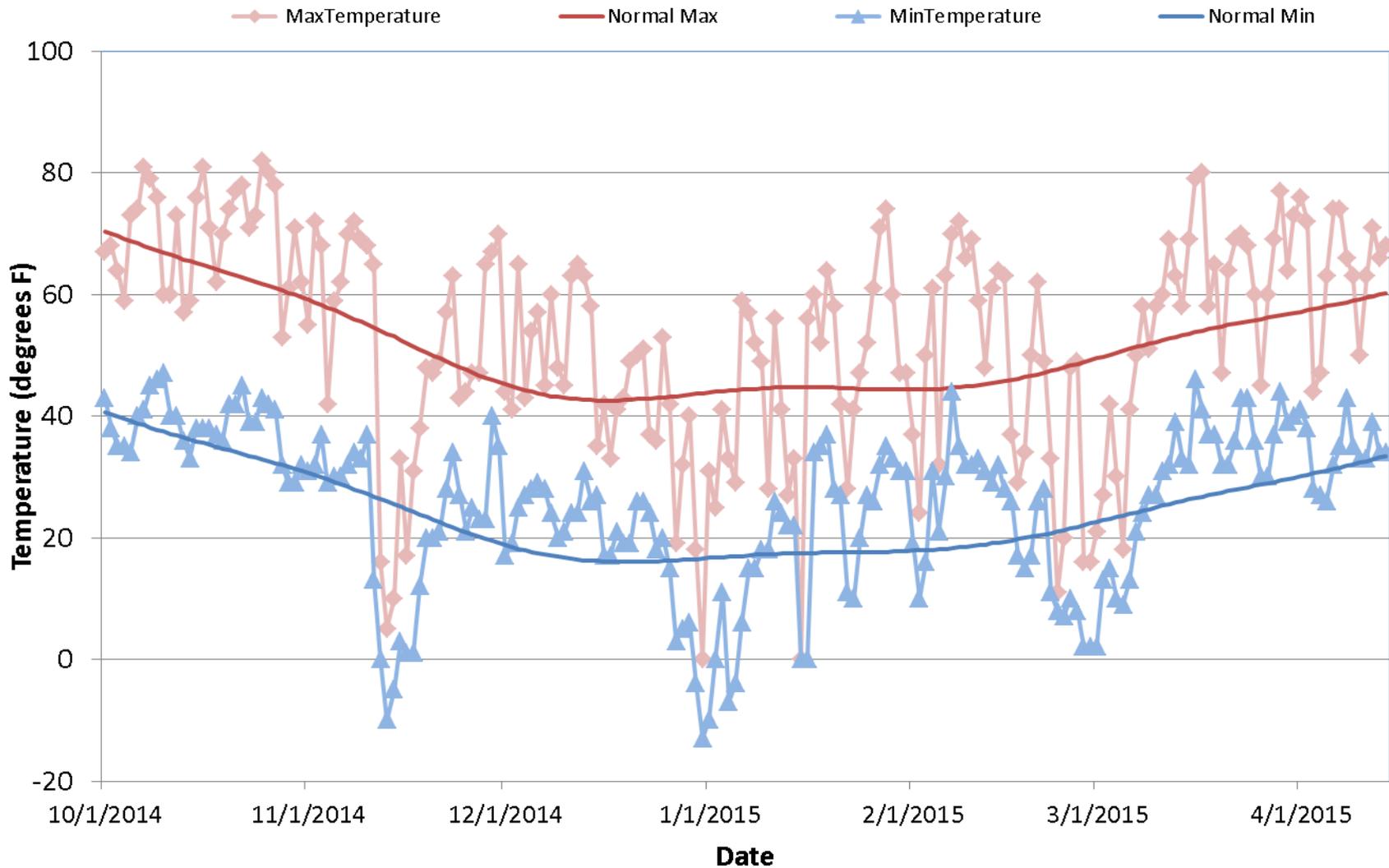


Departure from Normal Temperature (F)

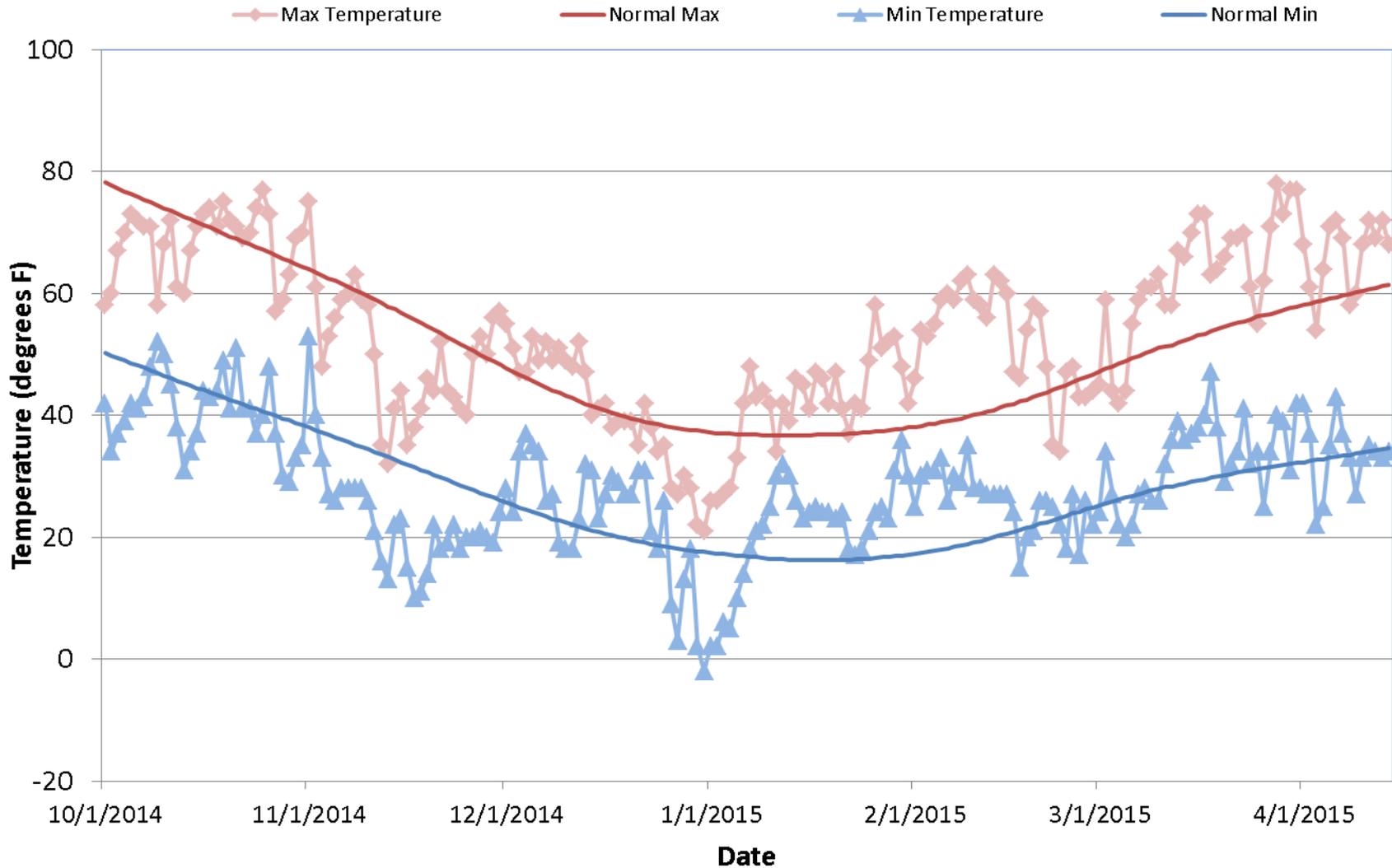
4/1/2015 - 4/13/2015



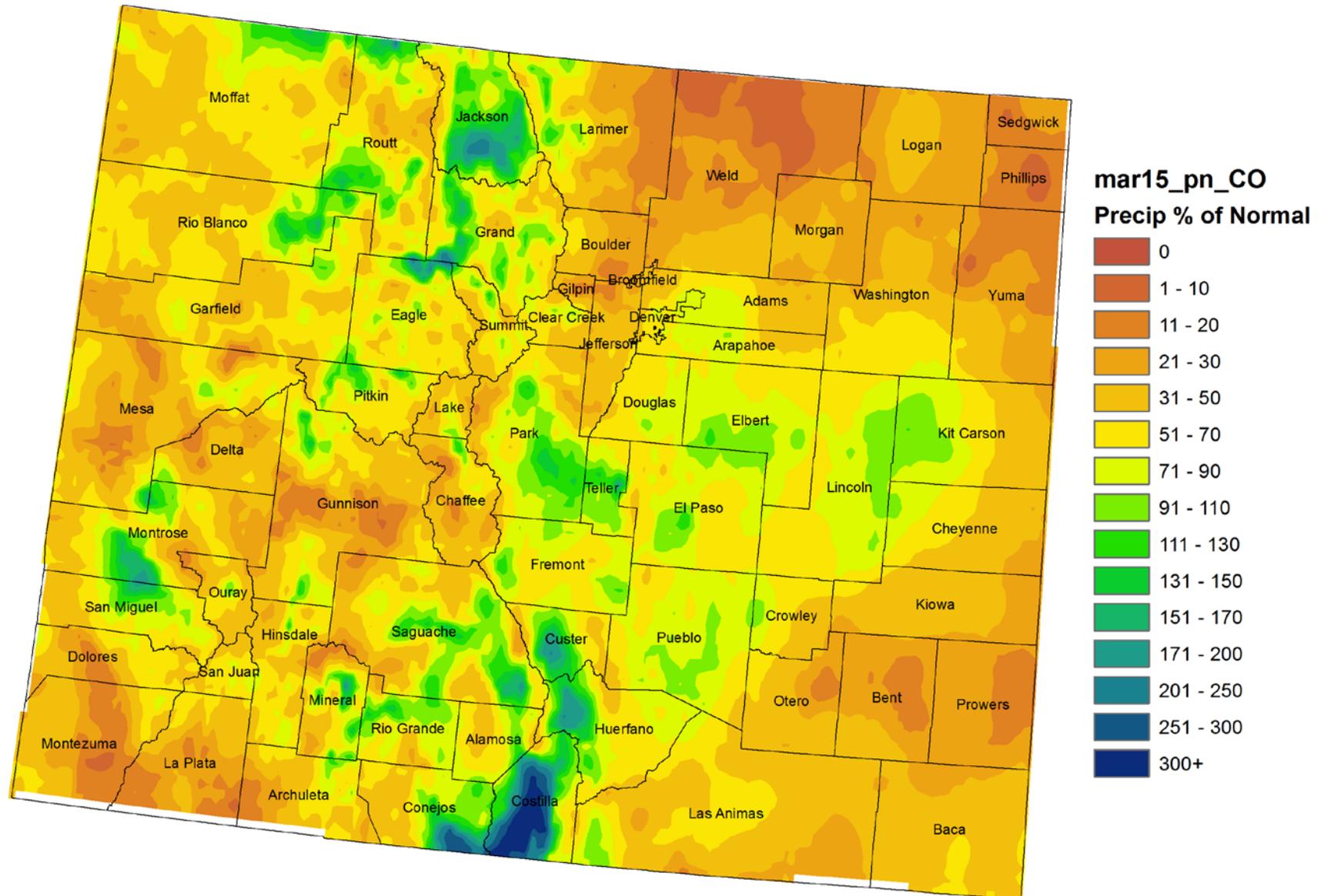
Denver-Stapleton Daily Max/Min Temperature with Normal (Oct 1, 2014 - Present)



Grand Junction Daily Max/Min Temperature with Normals (Oct 1, 2014 - Present)



Colorado March 2015 Precipitation as a Percentage of Normal

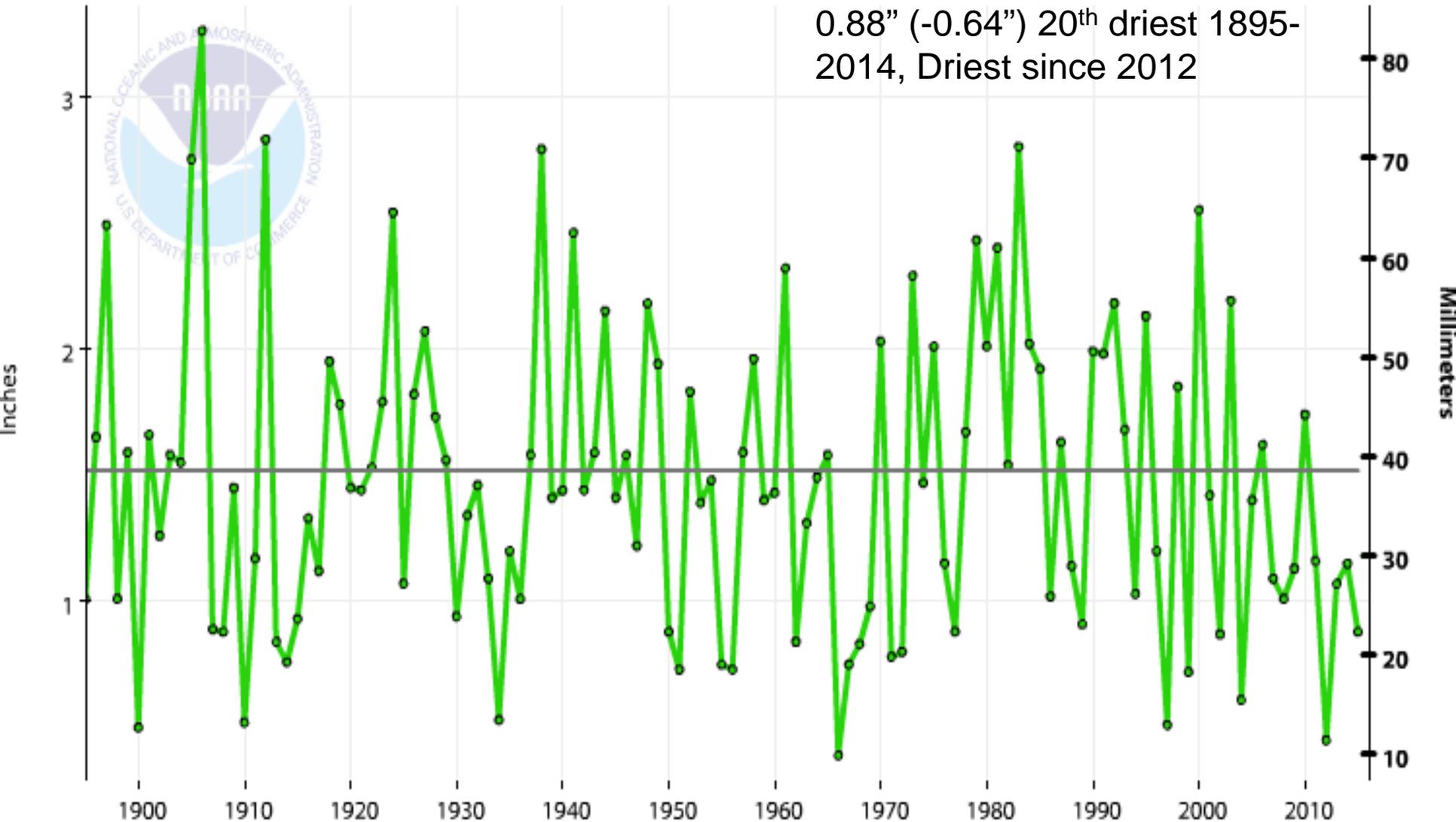


March 2015 Statewide Precipitation

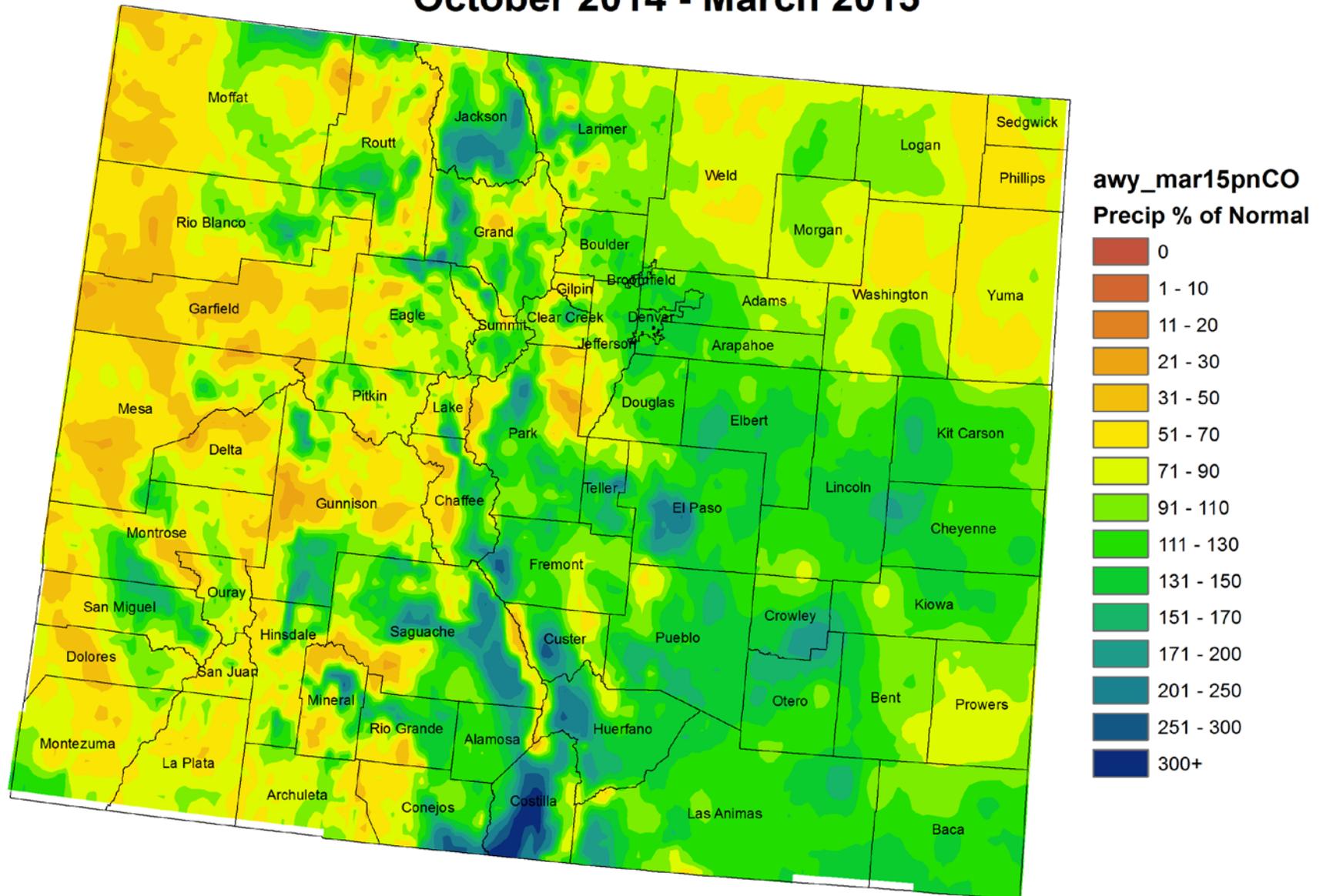
Colorado, Precipitation, March

— 1901-2000 Avg: 1.52" —●— Precip

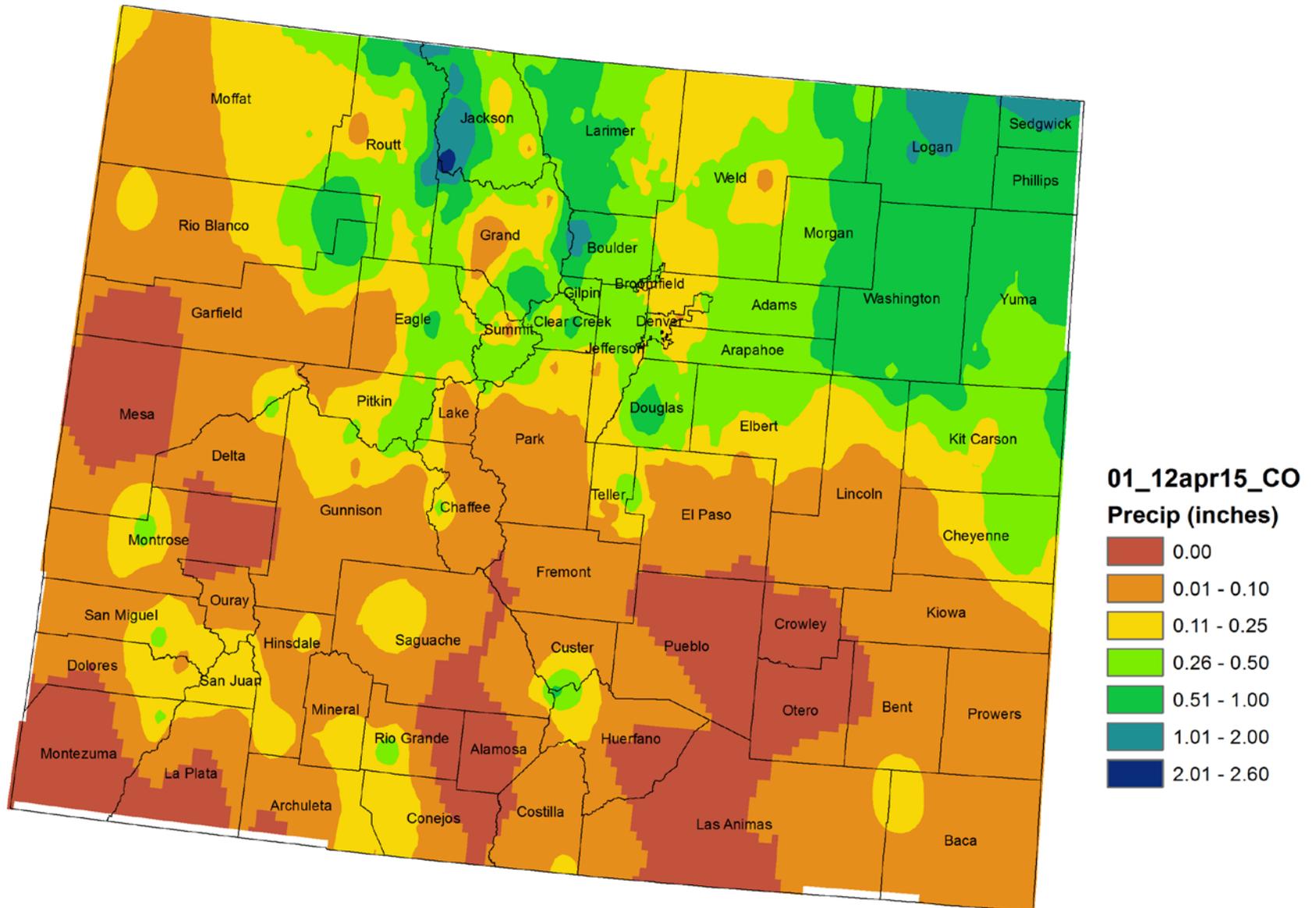
0.88" (-0.64") 20th driest 1895-2014, Driest since 2012



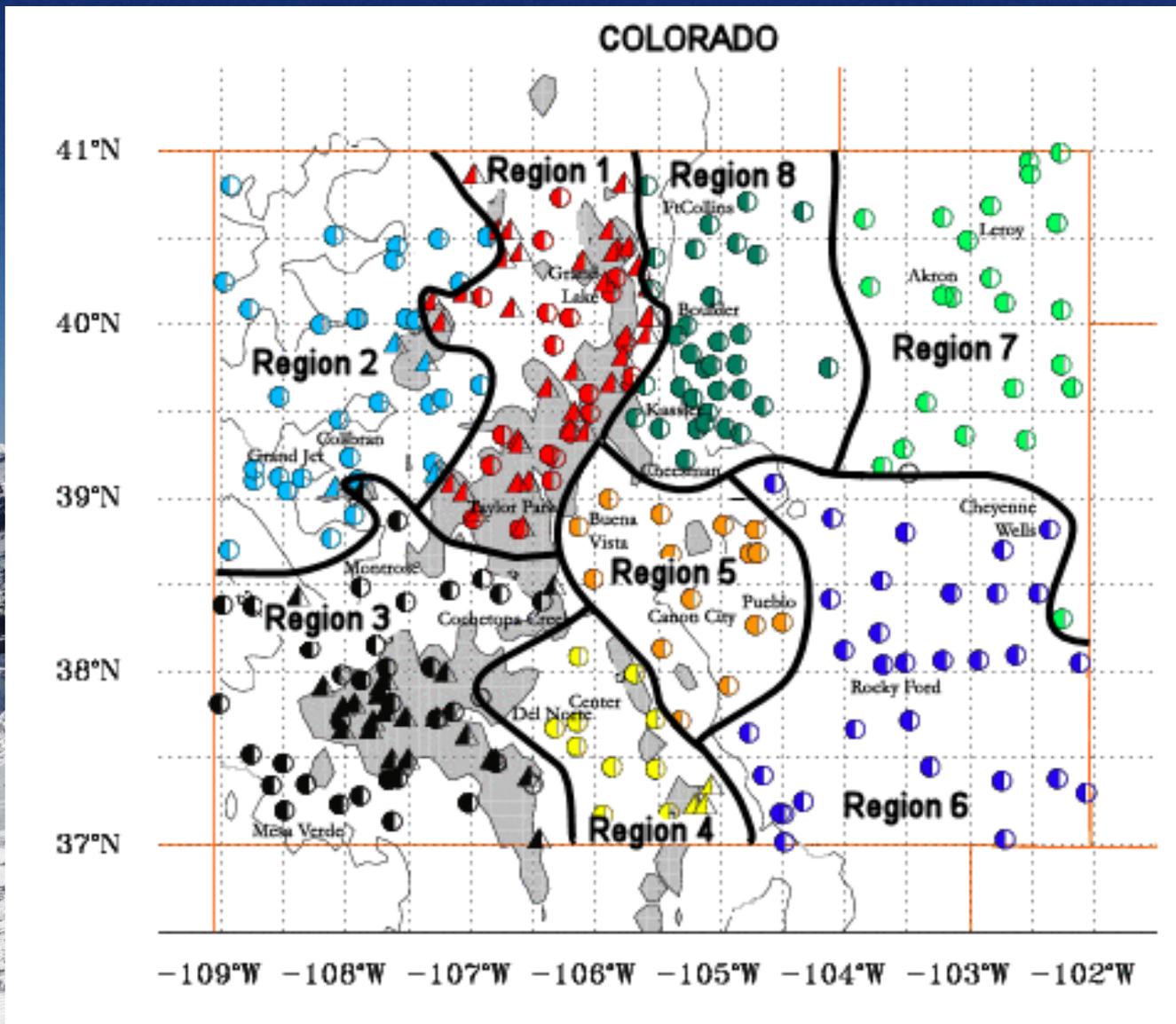
Colorado Water Year 2015 Precipitation as a Percentage of Normal October 2014 - March 2015



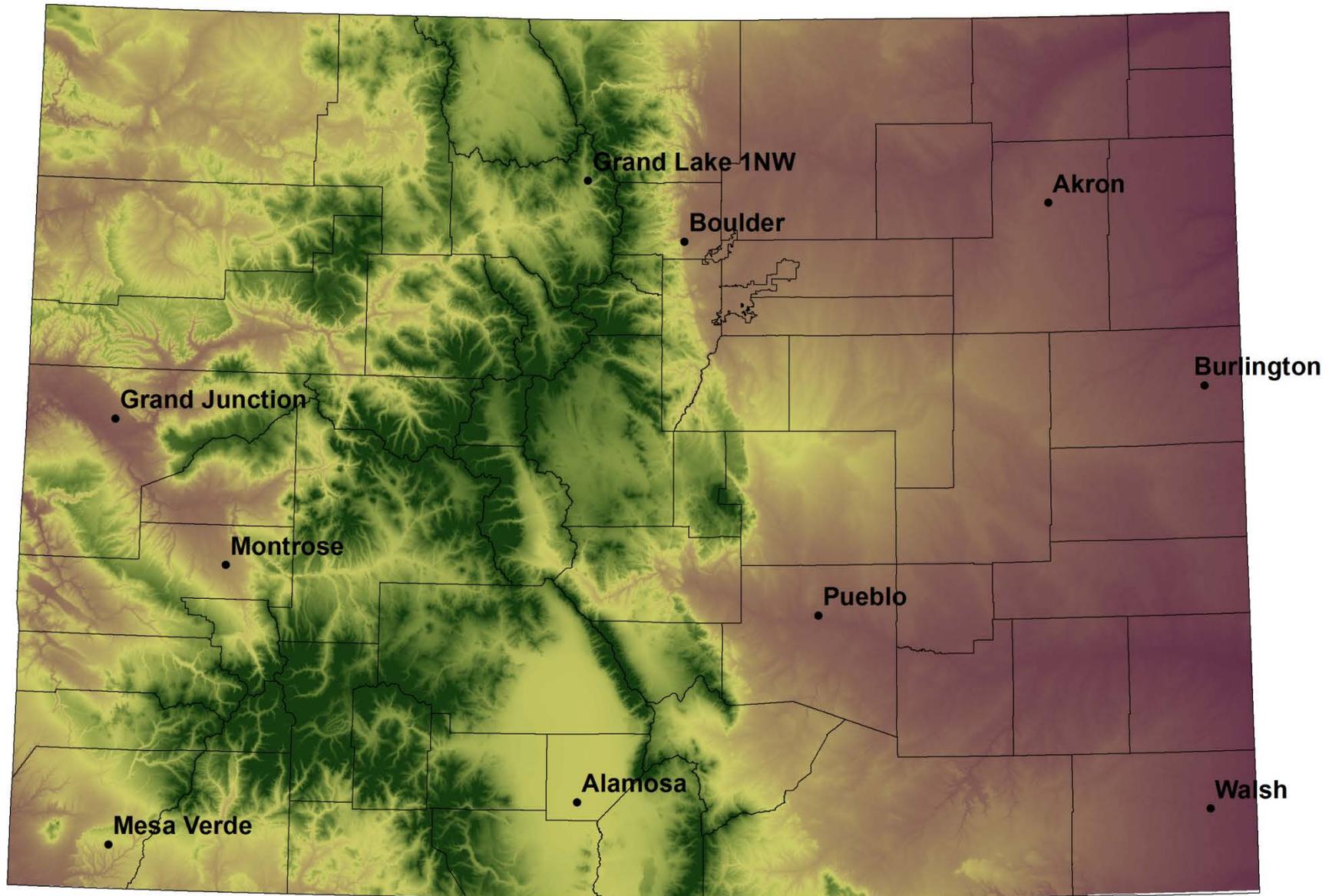
Colorado Month to Date Precipitation 1 -12 April 2015



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

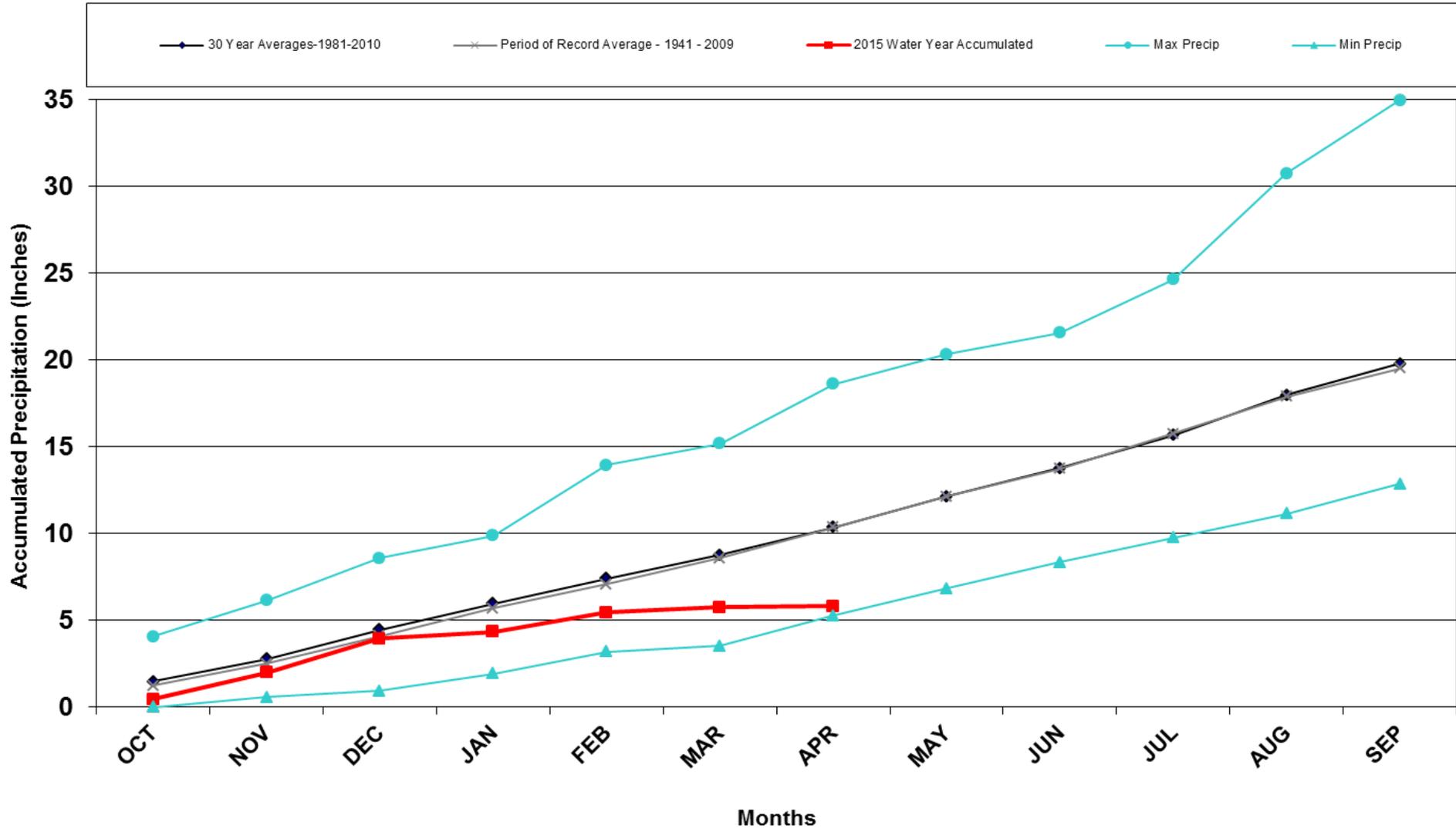


NWS Cooperative Stations for WATF



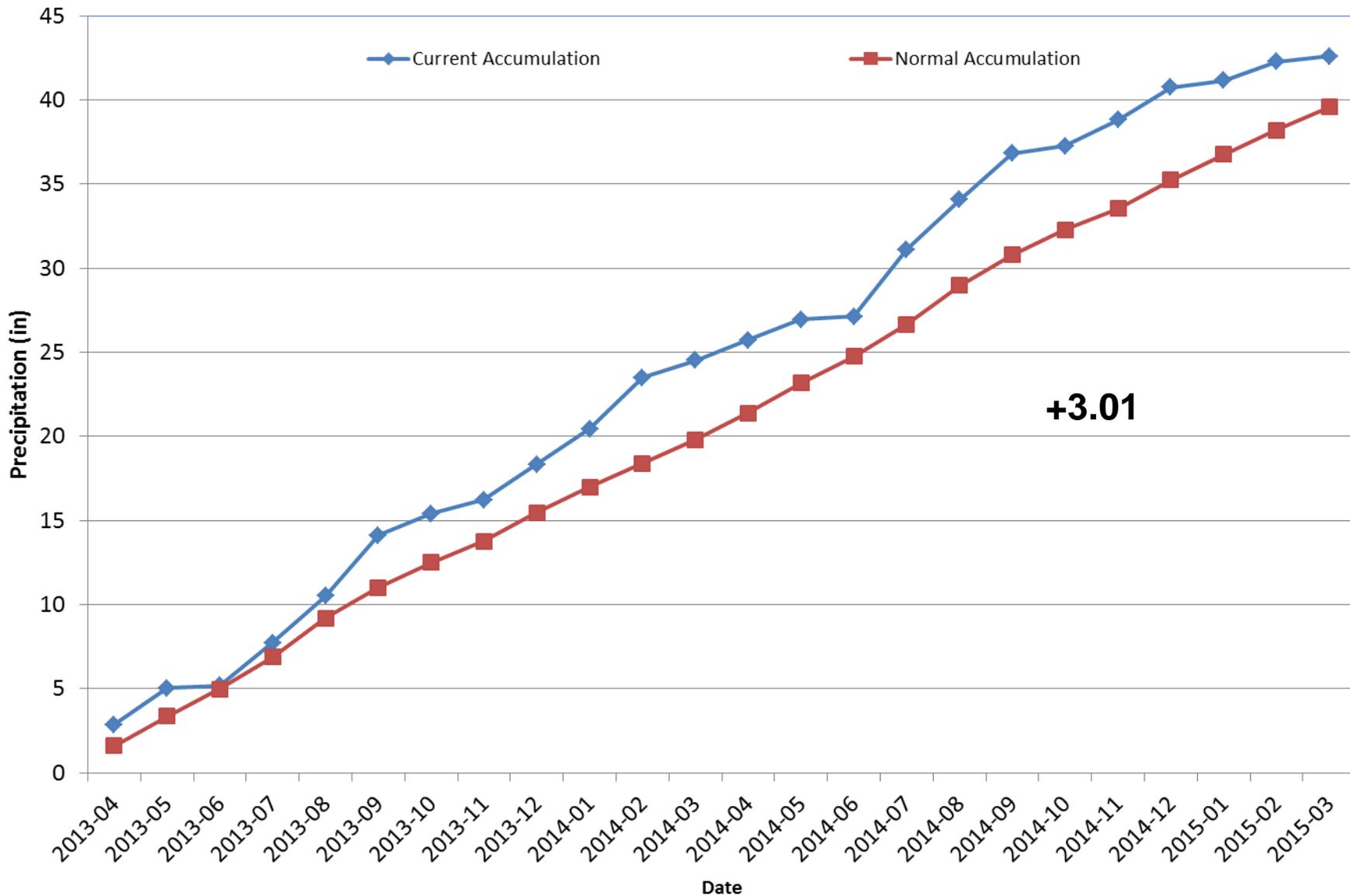
Division 1 – Grand Lake 1NW

Grand Lake 1 NW 2015 Water Year



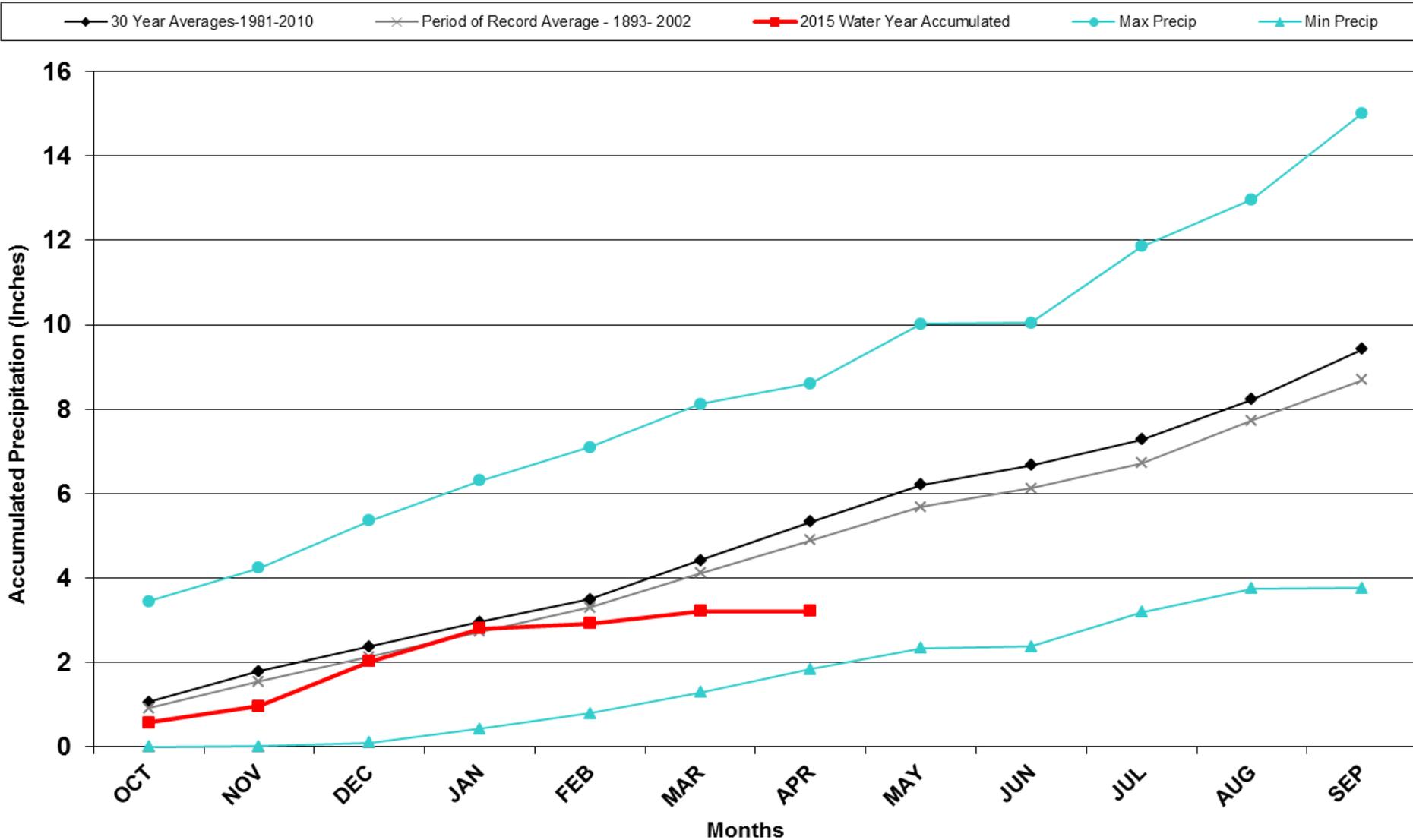
Division 1 – Grand Lake 1NW

Grand Lake 1NW Precipitation Accumulation



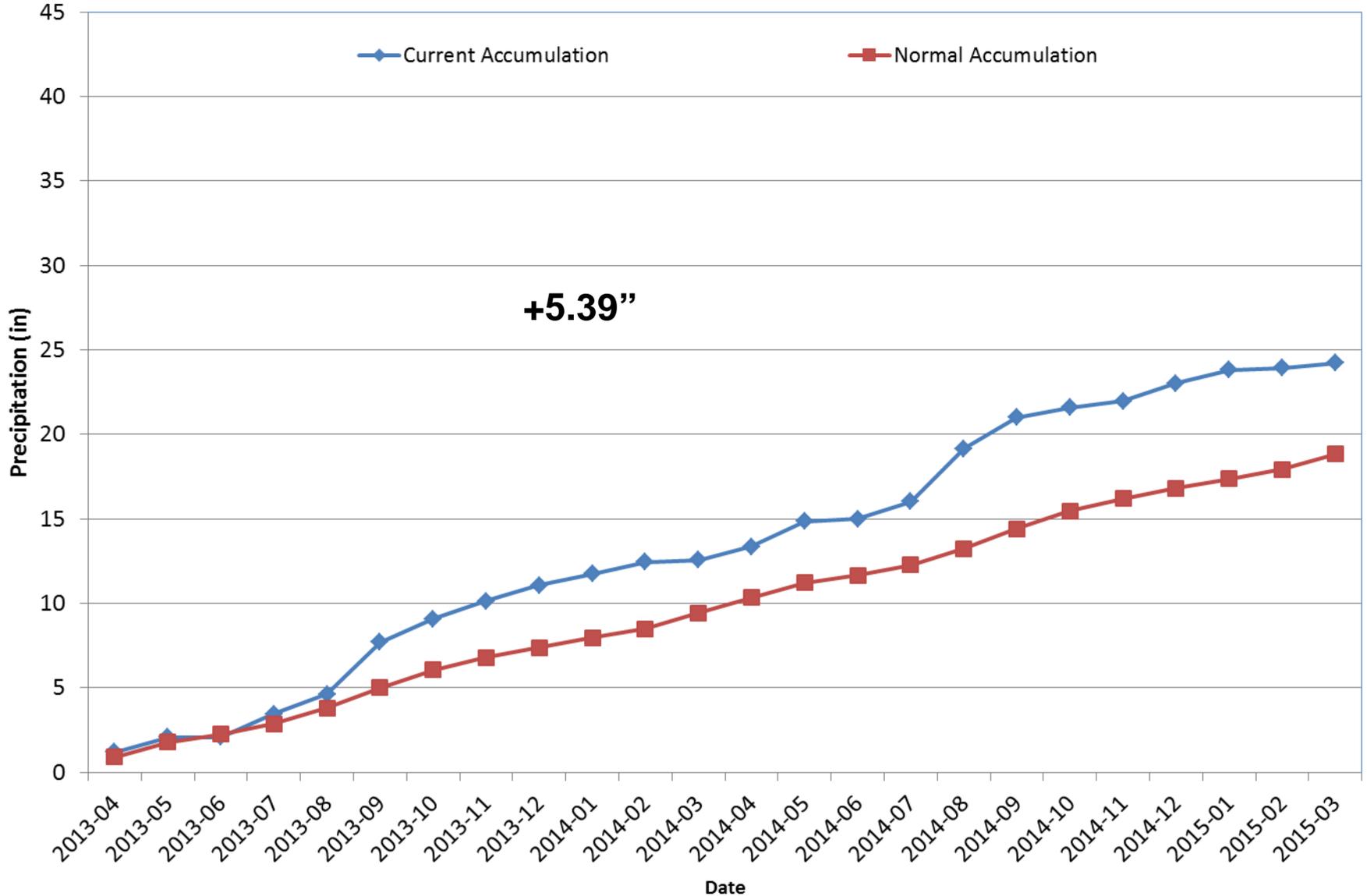
Division 2 – Grand Junction

Grand Junction WSFO 2015 Water Year



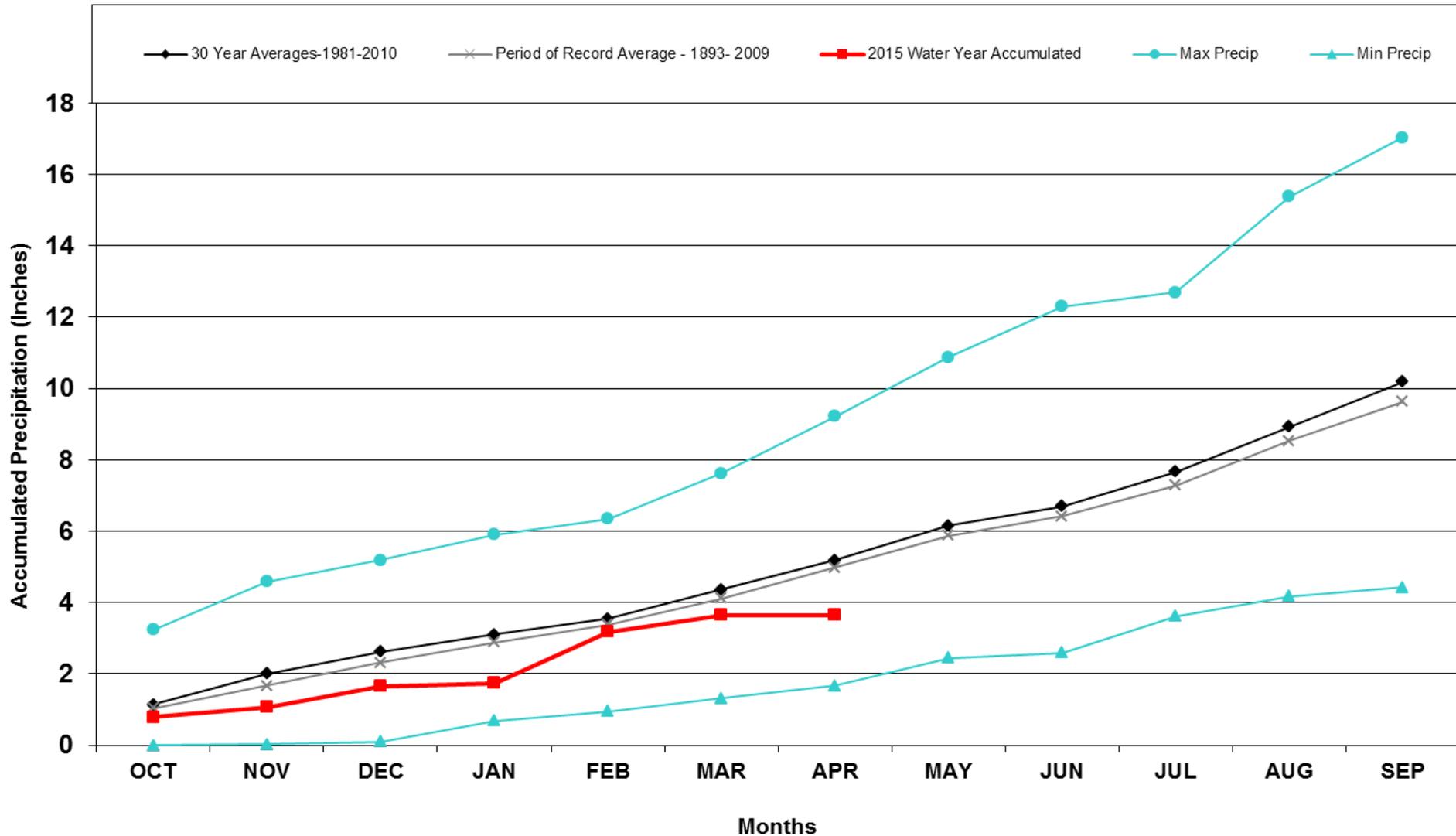
Division 2 – Grand Junction

Grand Junction Precipitation Accumulation



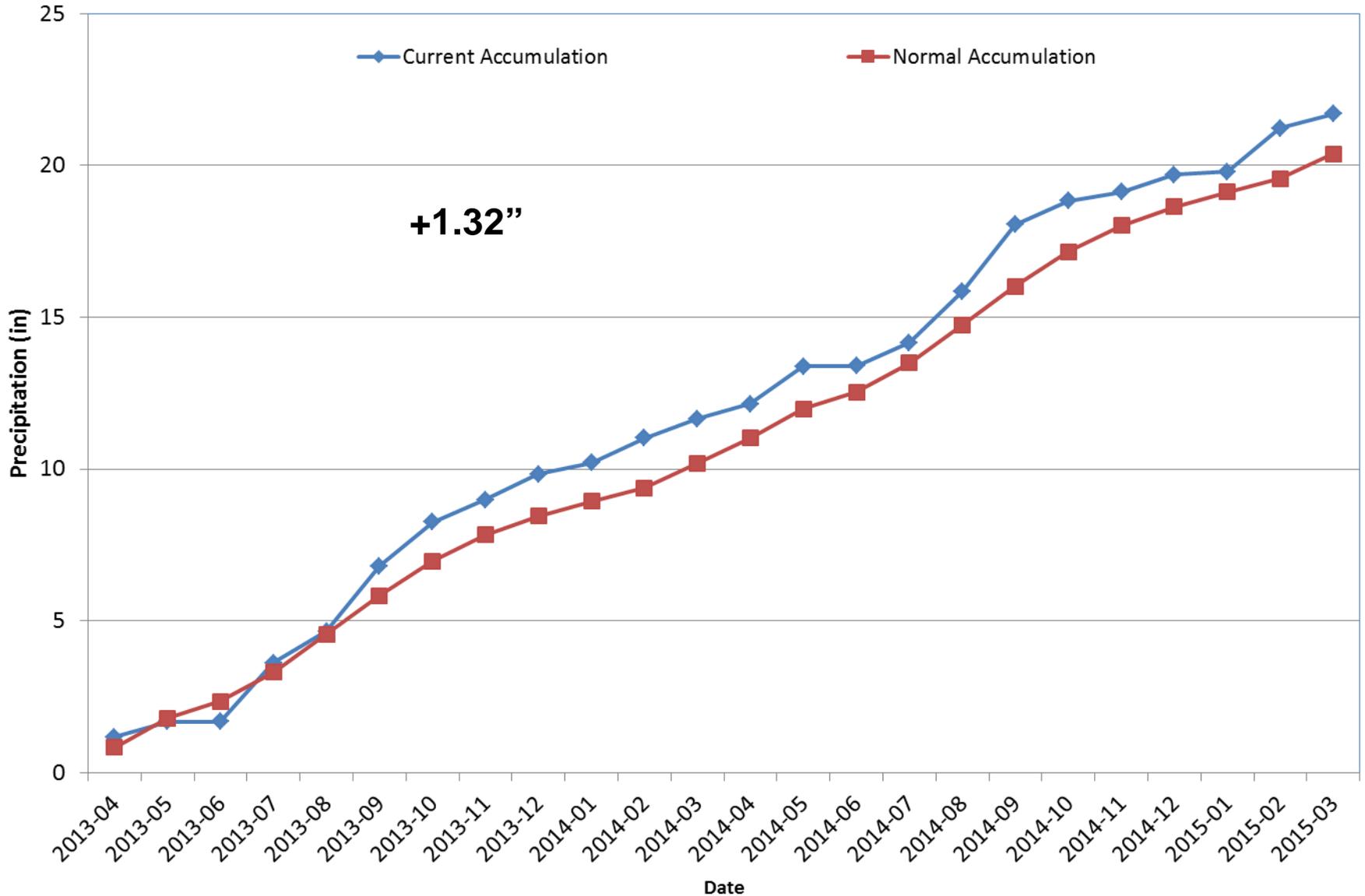
Division 3 – Montrose

Montrose #2 2015 Water Year



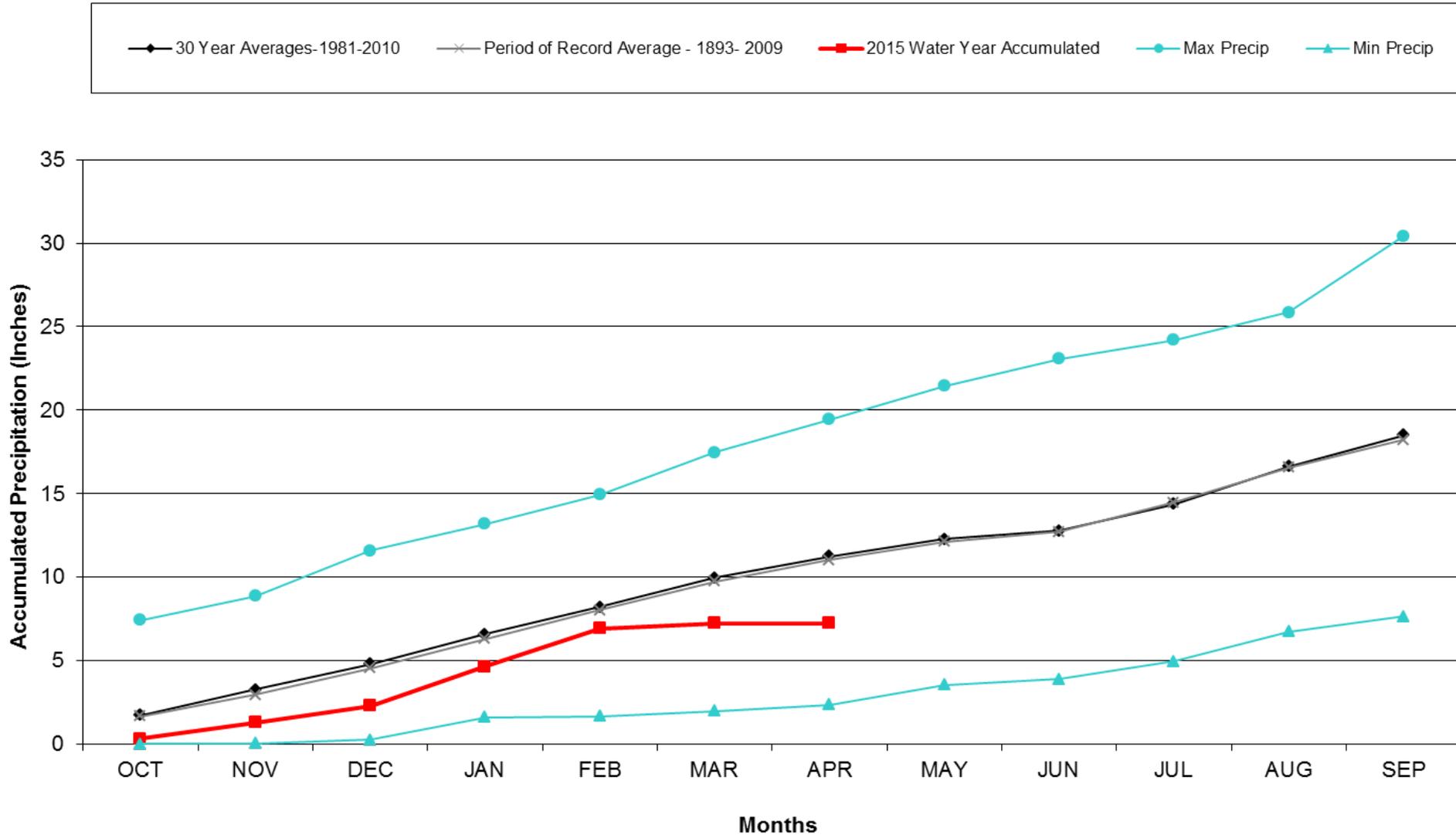
Division 3 – Montrose

Montrose #2 Precipitation Accumulation



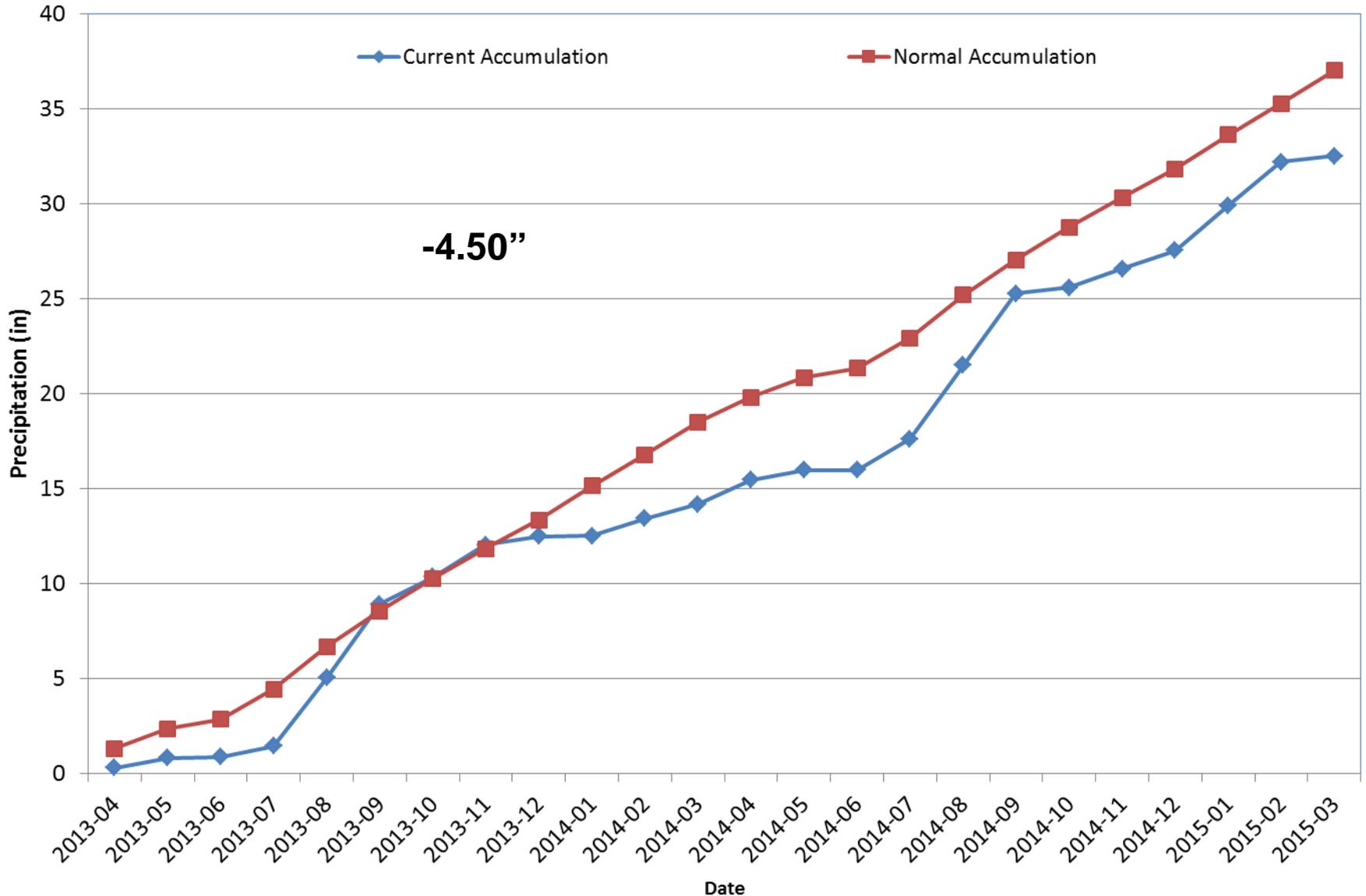
Division 3 – Mesa Verde NP

Mesa Verde NP 2015 Water Year



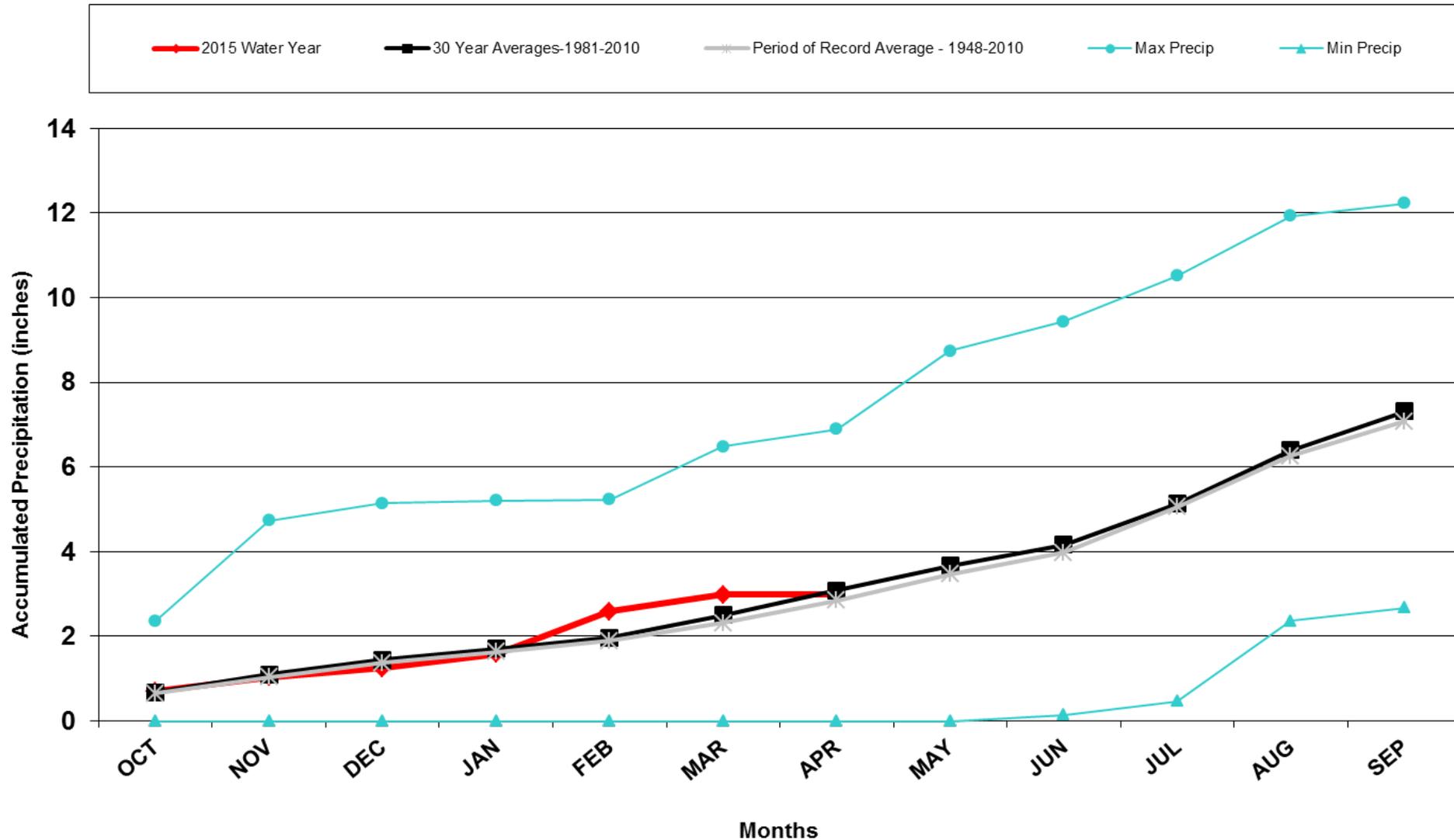
Division 3 – Mesa Verde NP

Mesa Verde NP Precipitation Accumulation



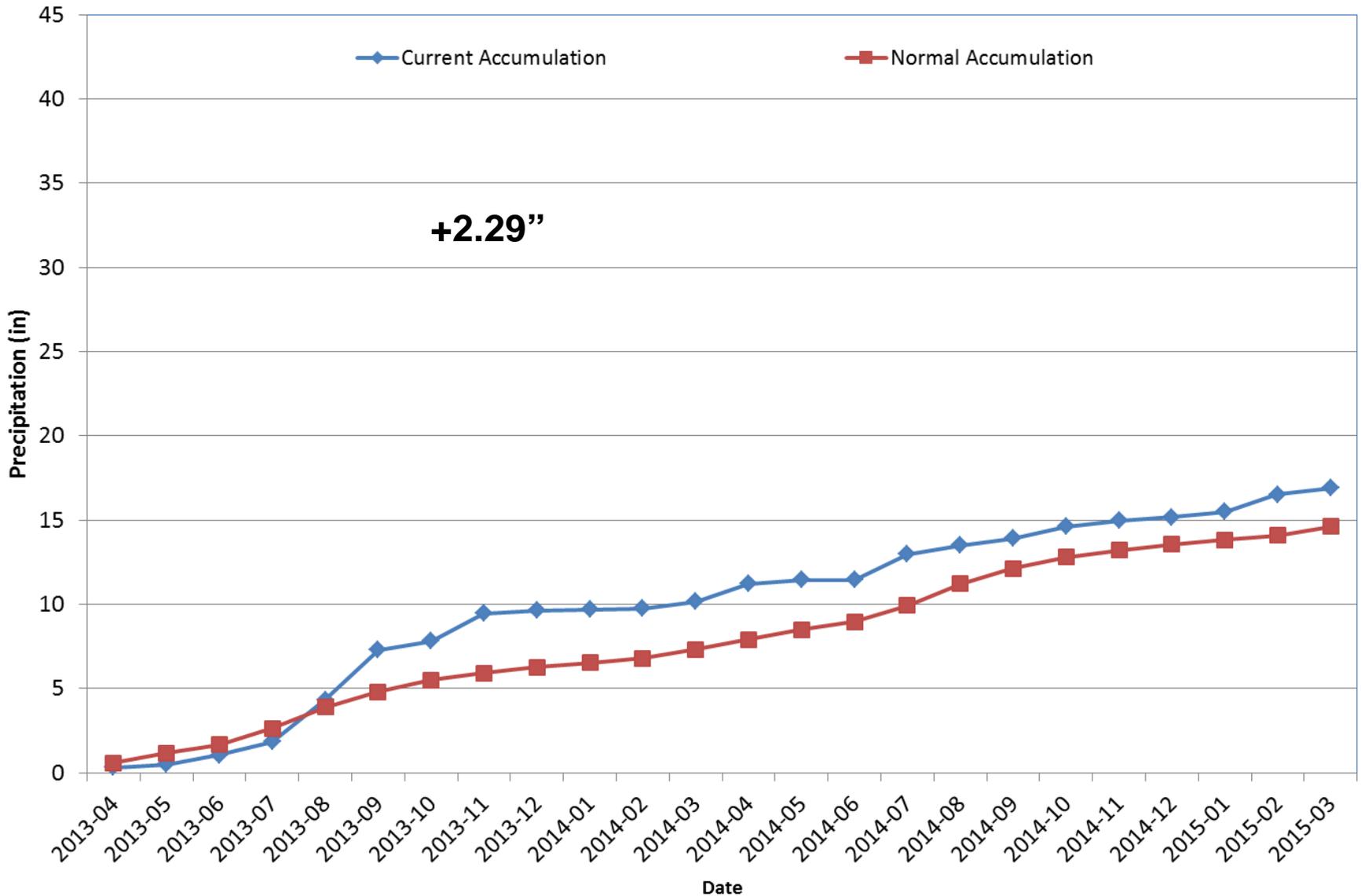
Division 4 – Alamosa

Alamosa WSO 2015 Water Year



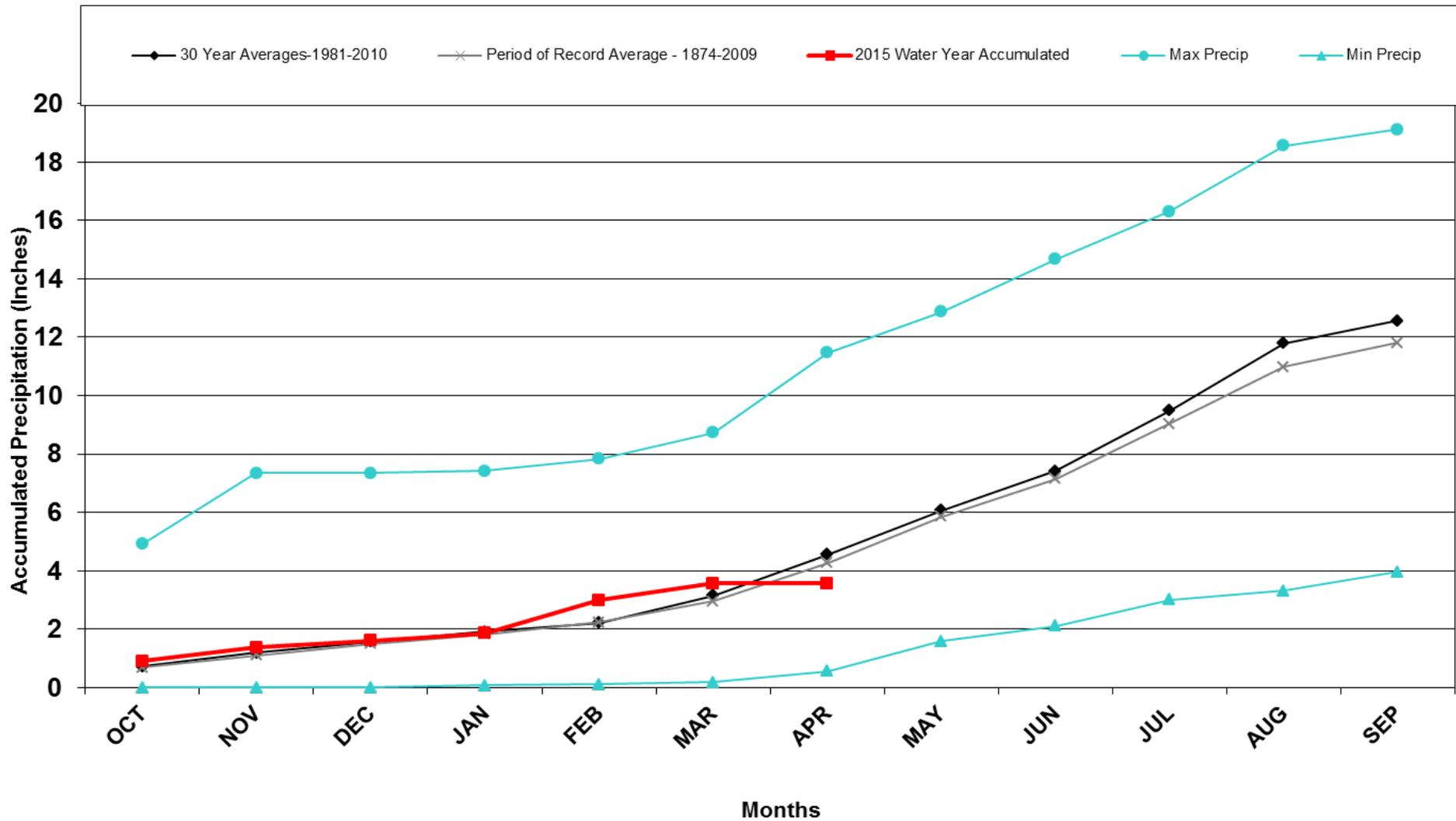
Division 4 – Alamosa

Alamosa WSO Precipitation Accumulation



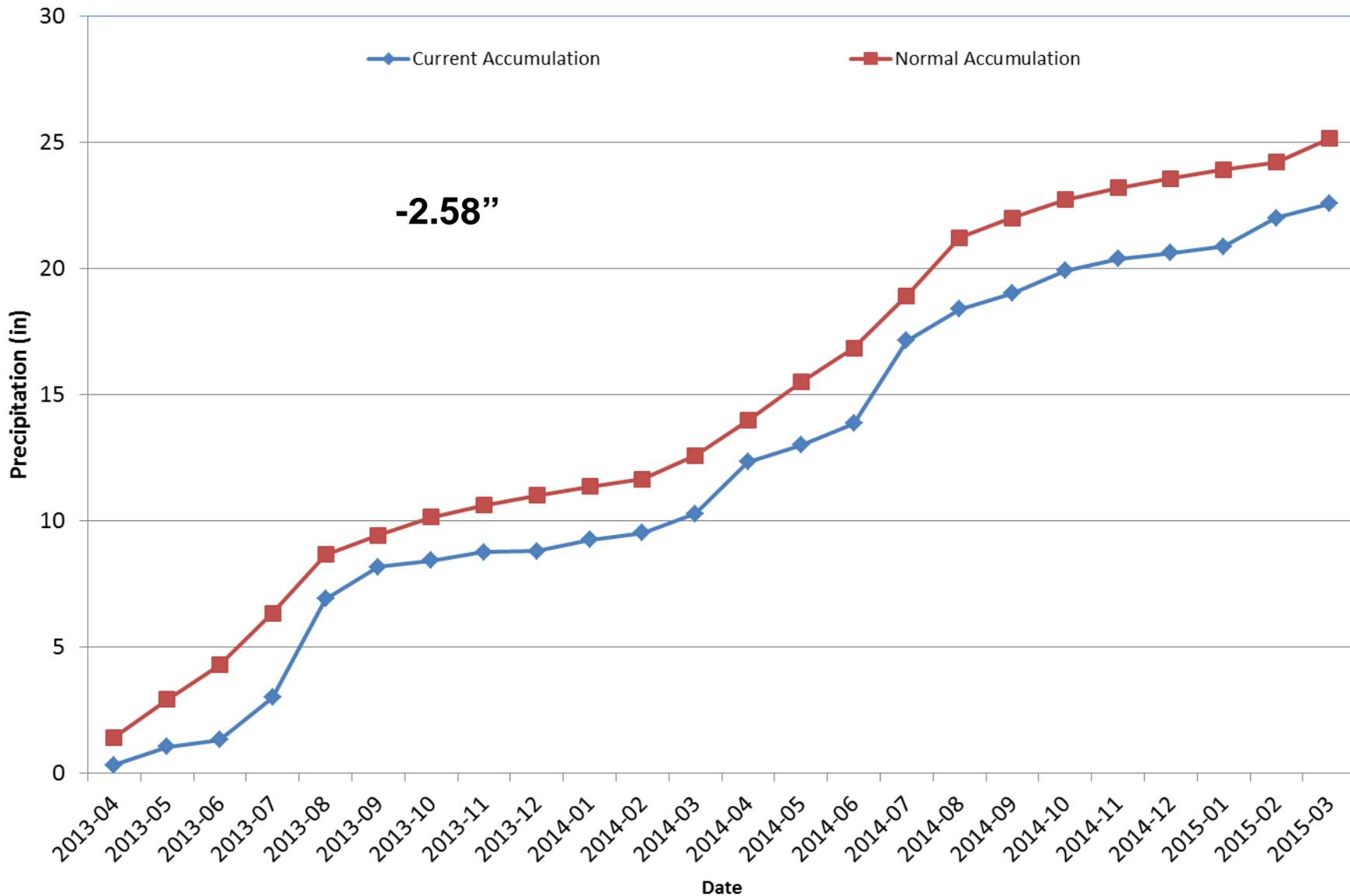
Division 5 – Pueblo

Pueblo WSO 2015 Water Year



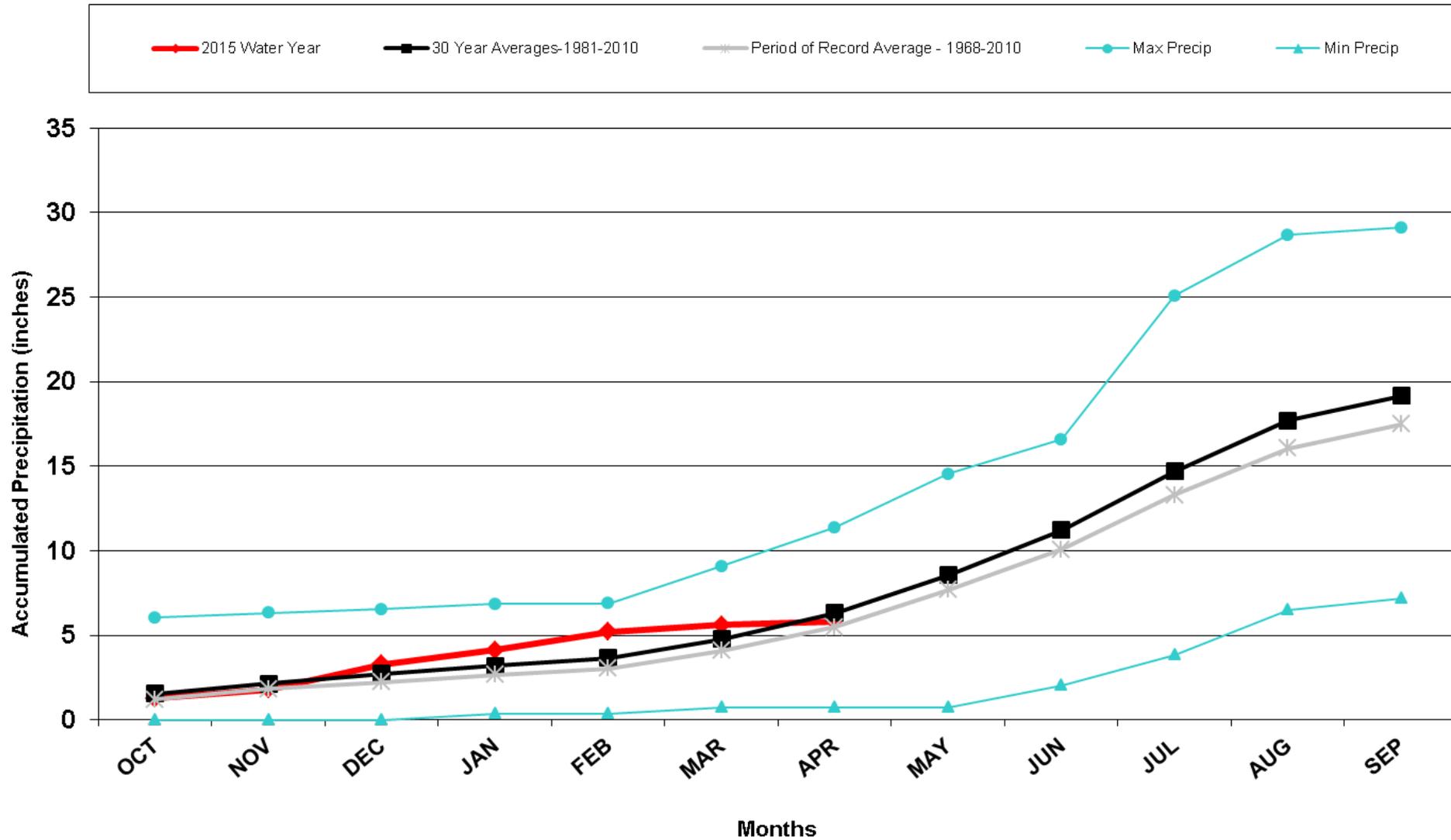
Division 5 – Pueblo

Pueblo Memorial AP Precipitation Accumulation



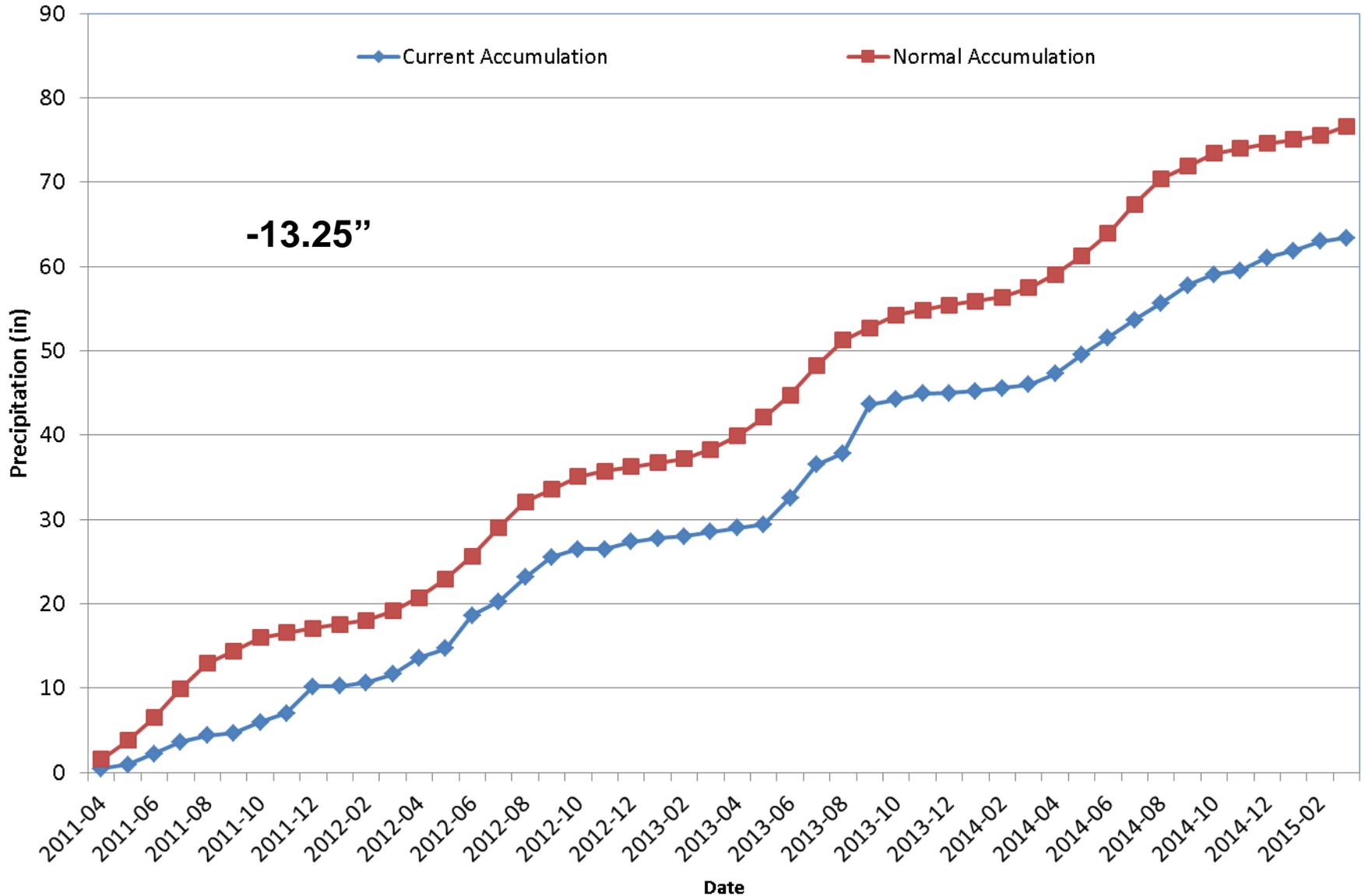
Division 6 - Walsh

Walsh 2015 Water Year



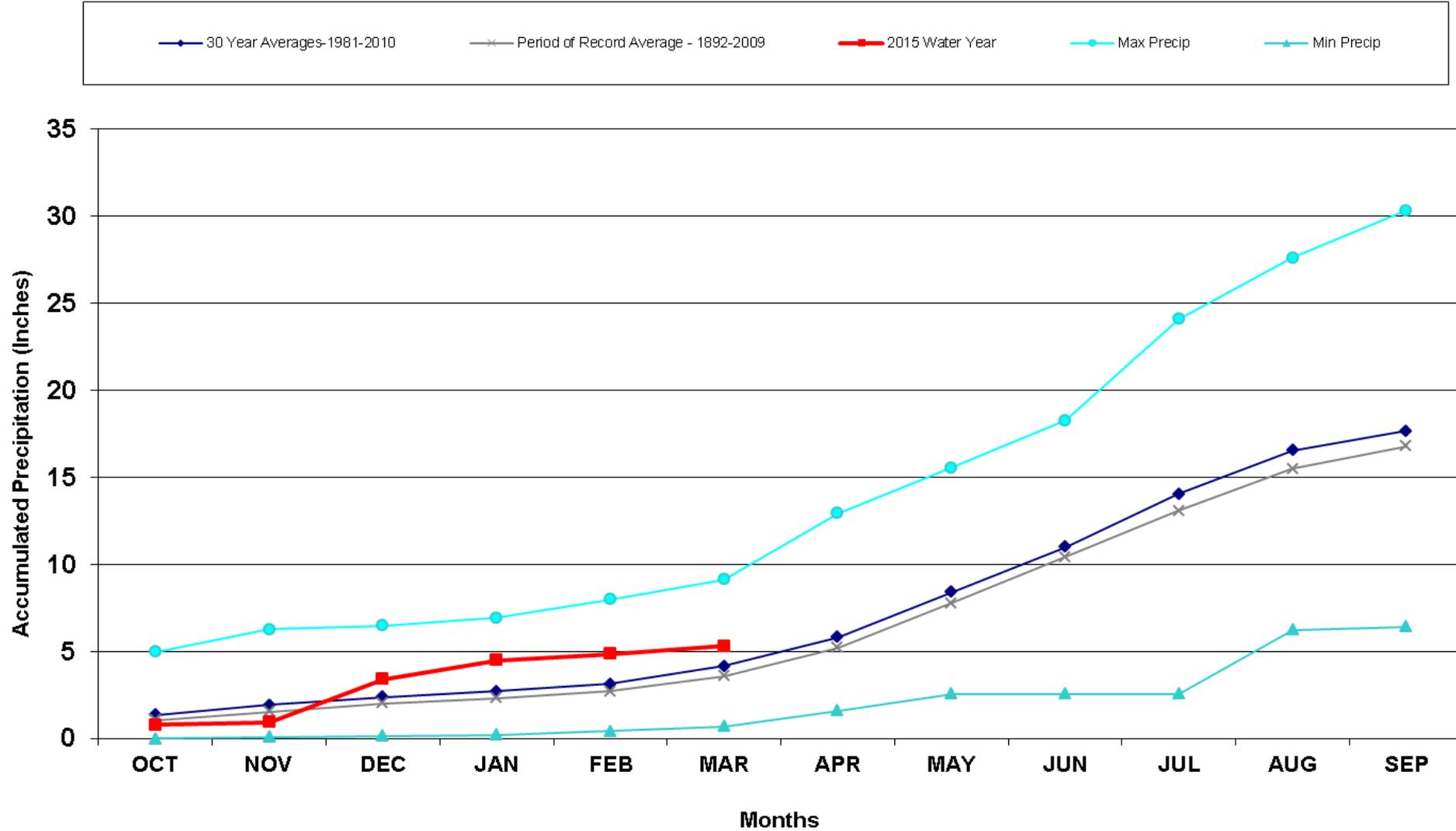
Division 6 - Walsh

Walsh 1W Precipitation Accumulation



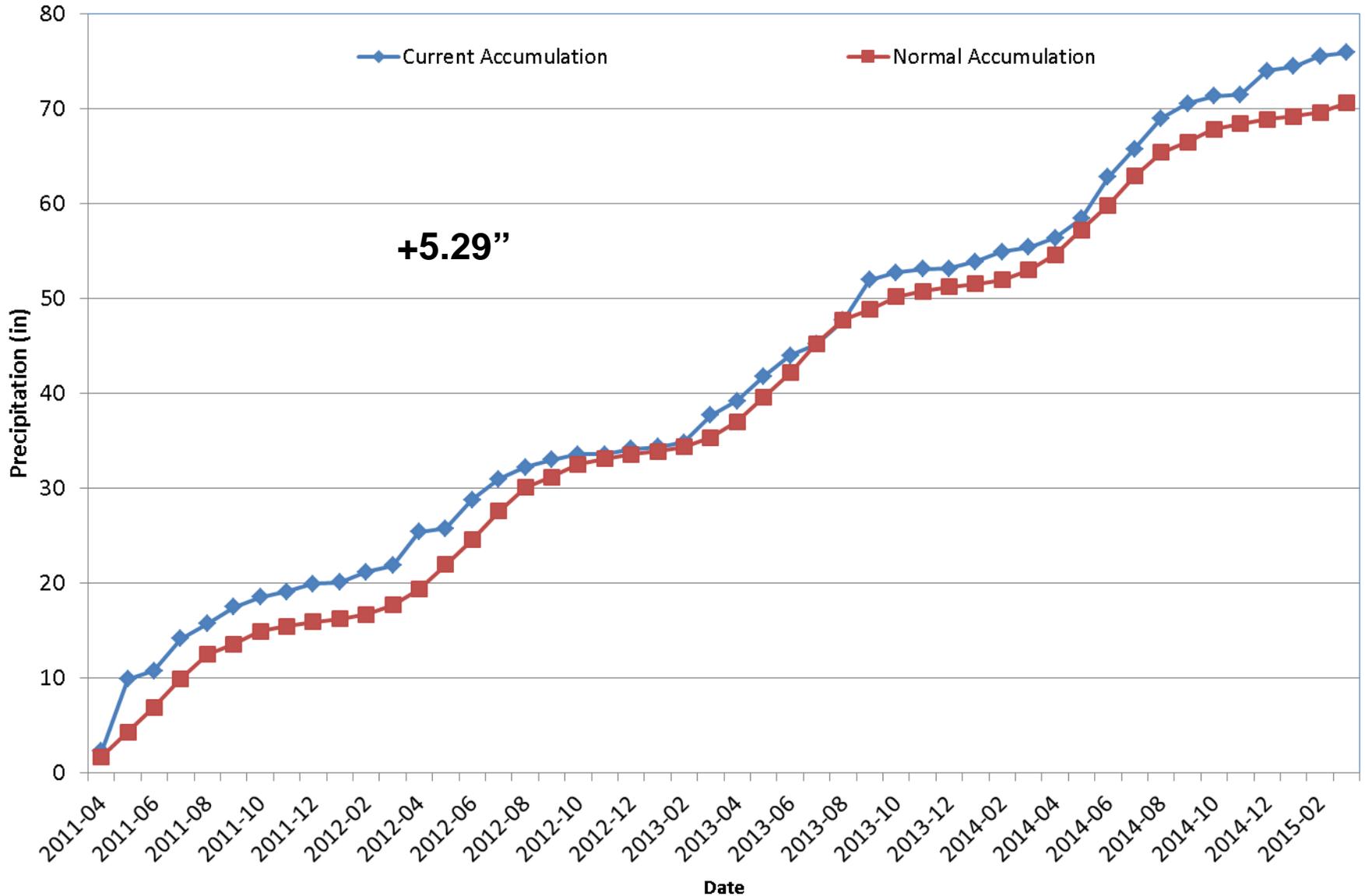
Division 6 - Burlington

Burlington 2015 Water Year



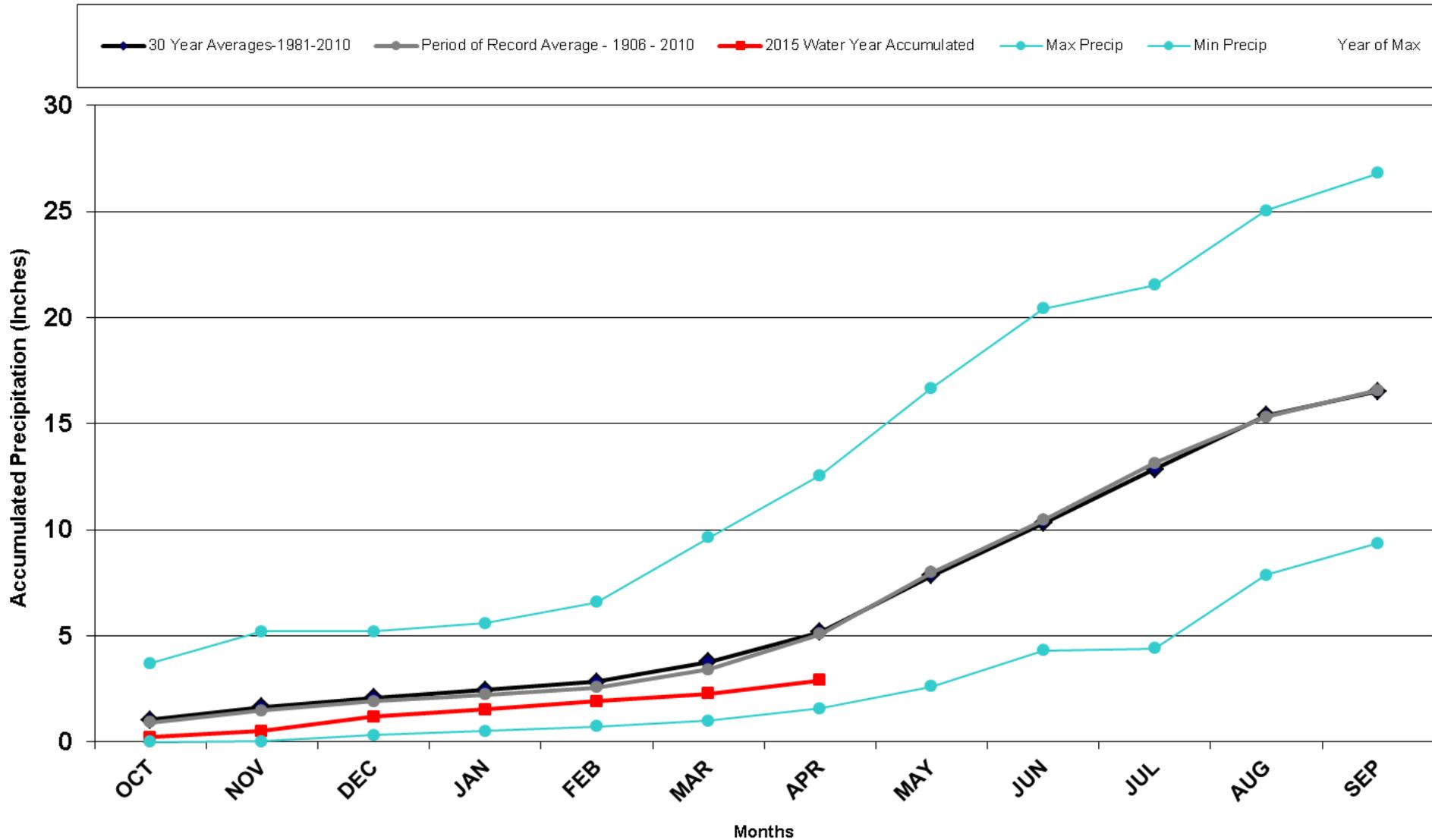
Division 6 - Burlington

Burlington, CO Precipitation Accumulation



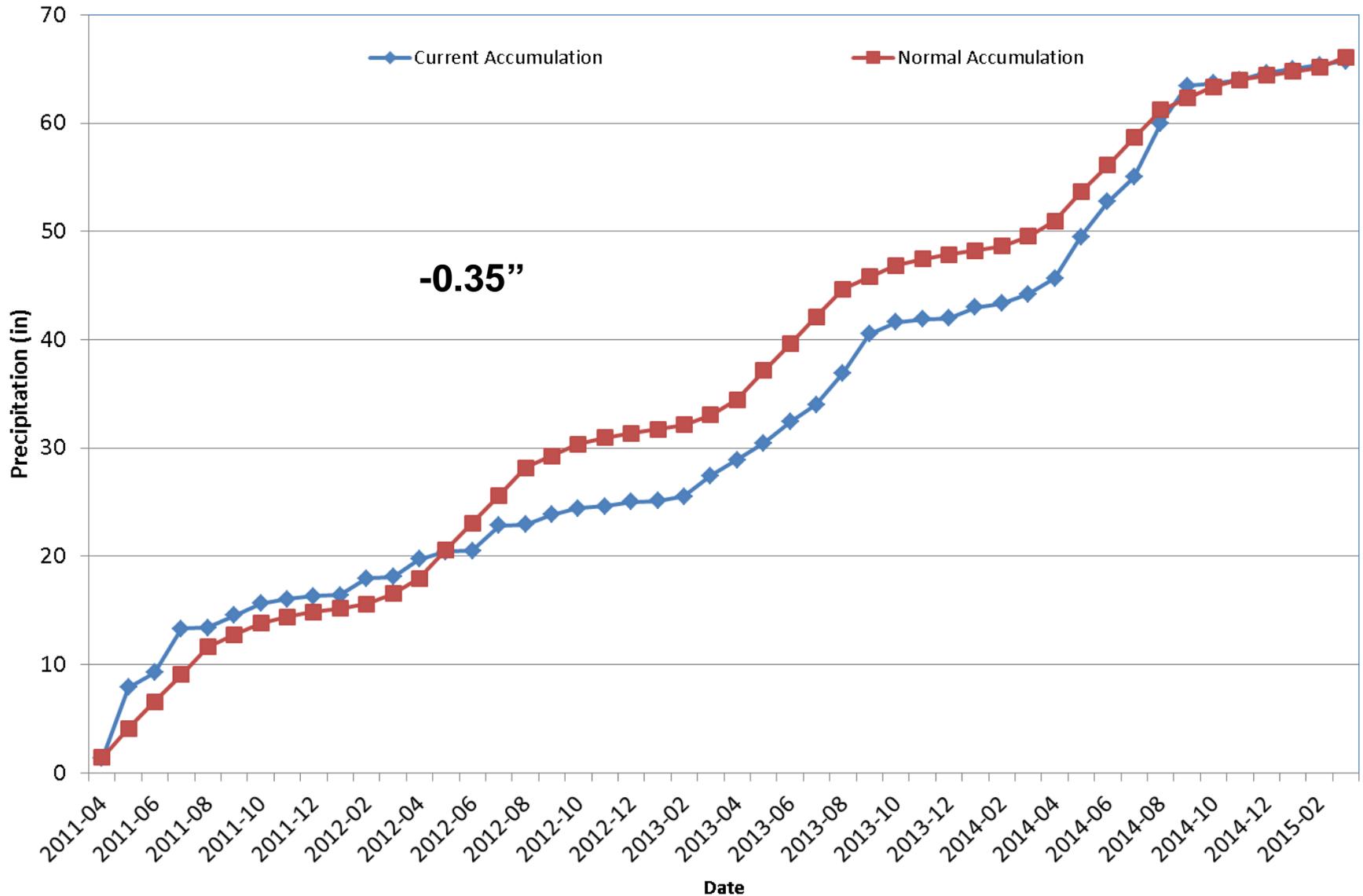
Division 7 – Akron

Akron 4E 2015 Water Year



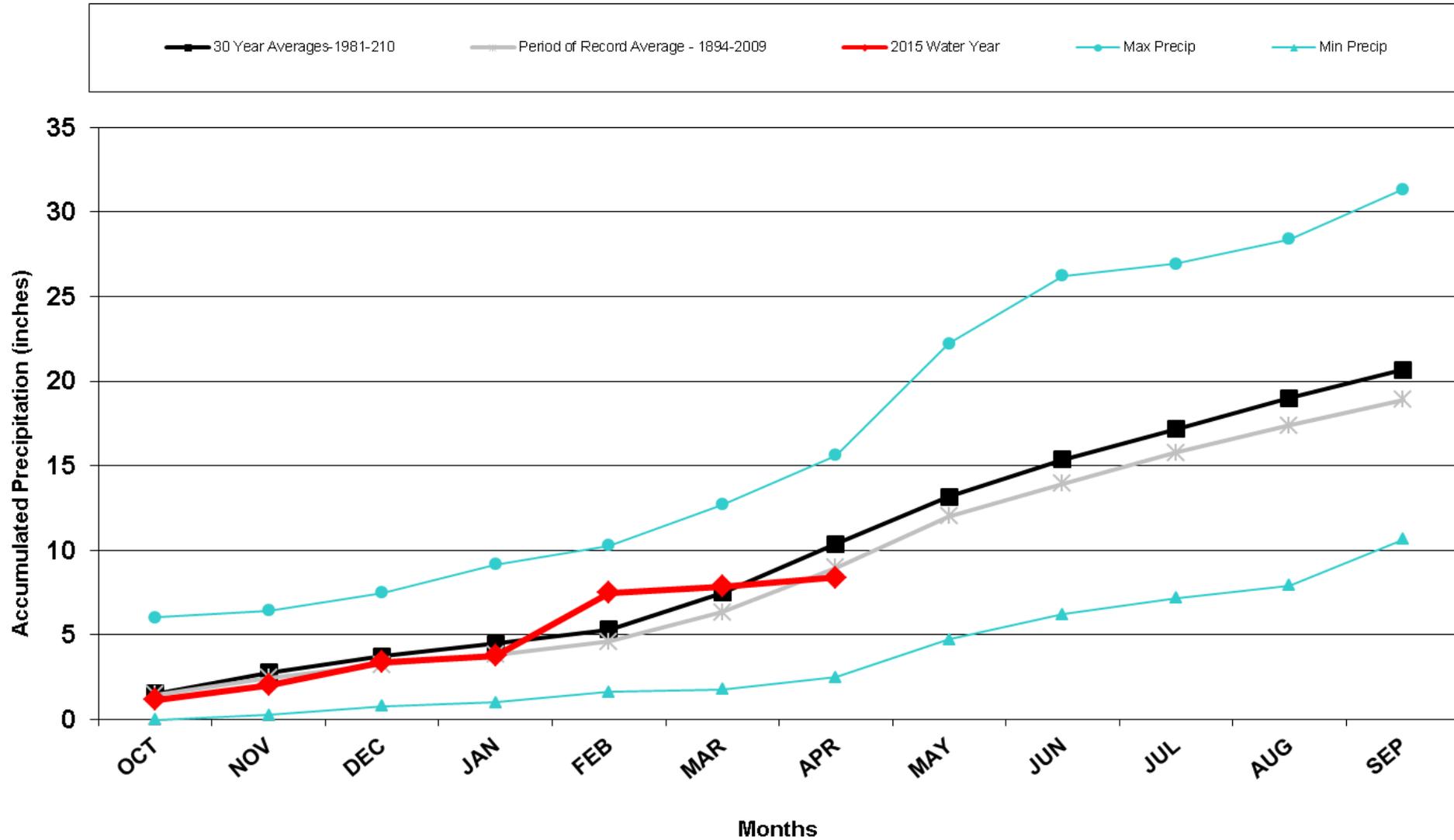
Division 7 – Akron

Akron 4E Precipitation Accumulation



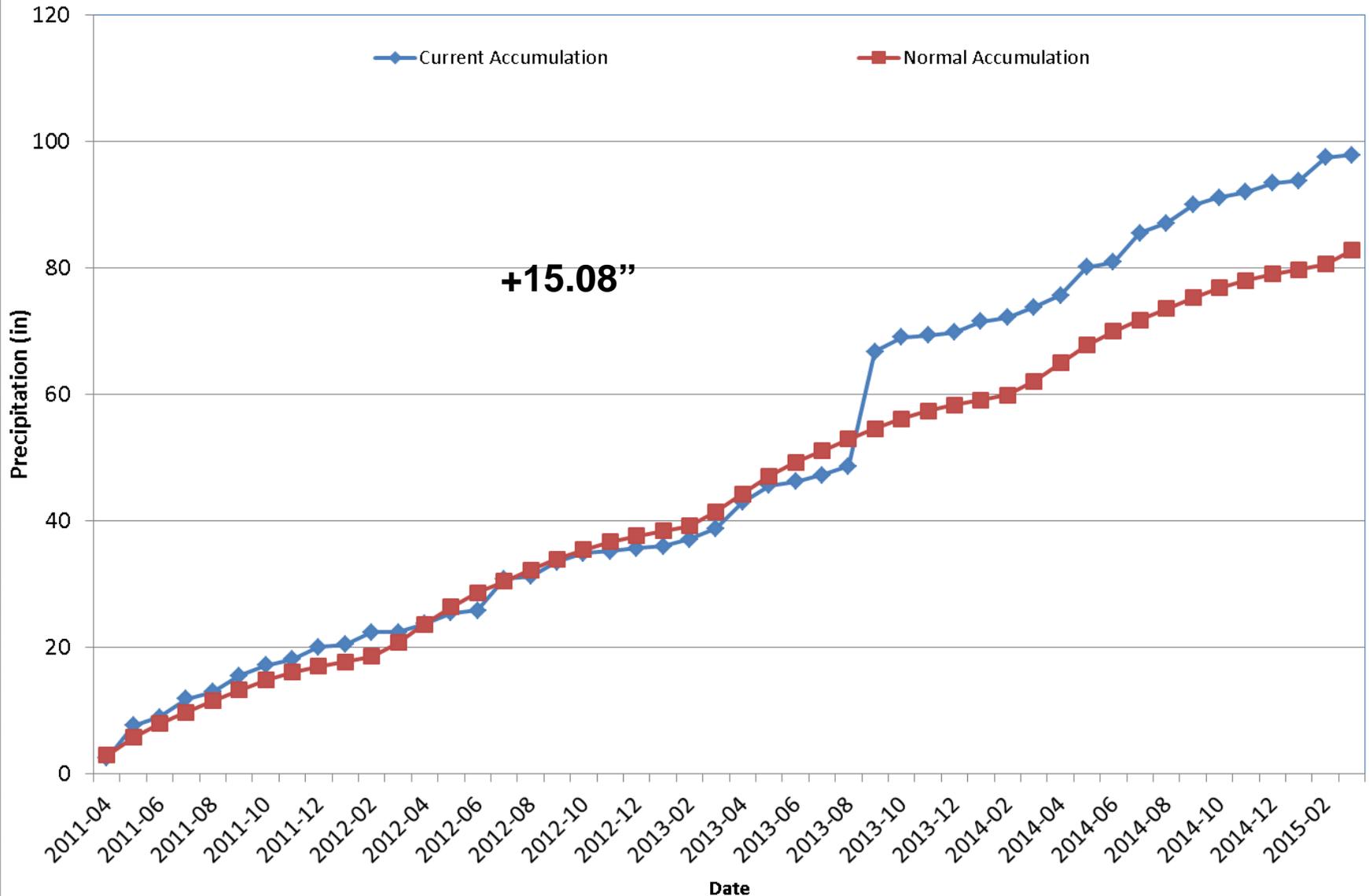
Division 8 - Boulder

Boulder 2015 Water Year



Division 8 - Boulder

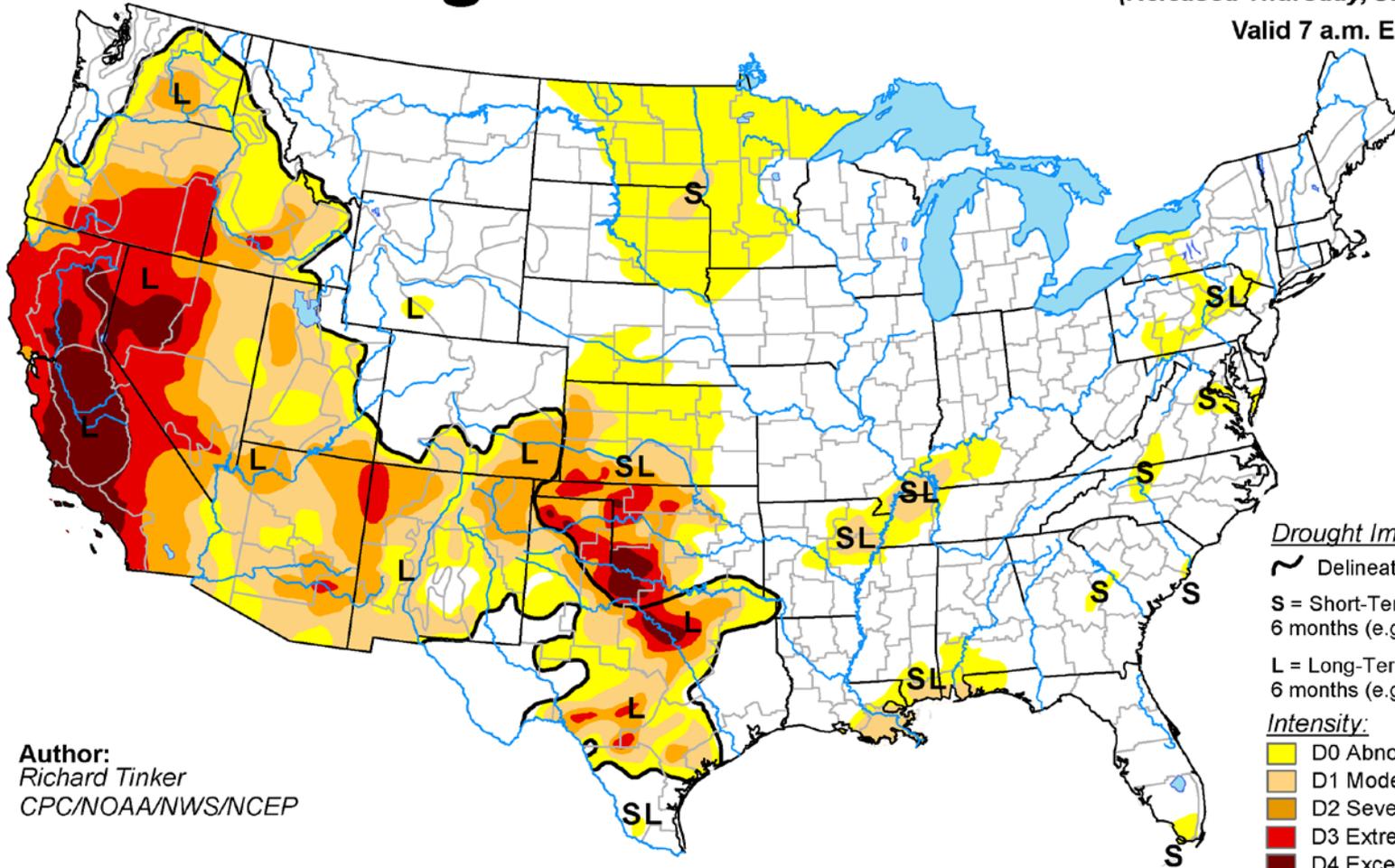
Boulder Precipitation Accumulation



U.S. Drought Monitor

January 13, 2015
(Released Thursday, Jan. 15, 2015)

Valid 7 a.m. EST



Author:
Richard Tinker
CPC/NOAA/NWS/NCEP

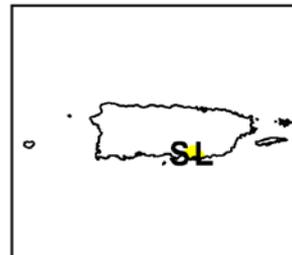
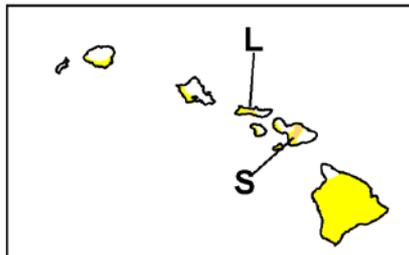
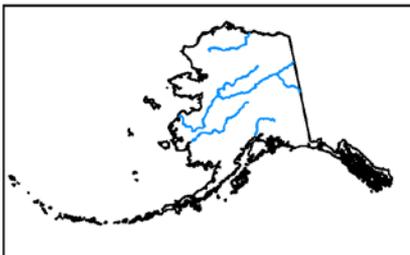
Drought Impact Types:

- ~ 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.

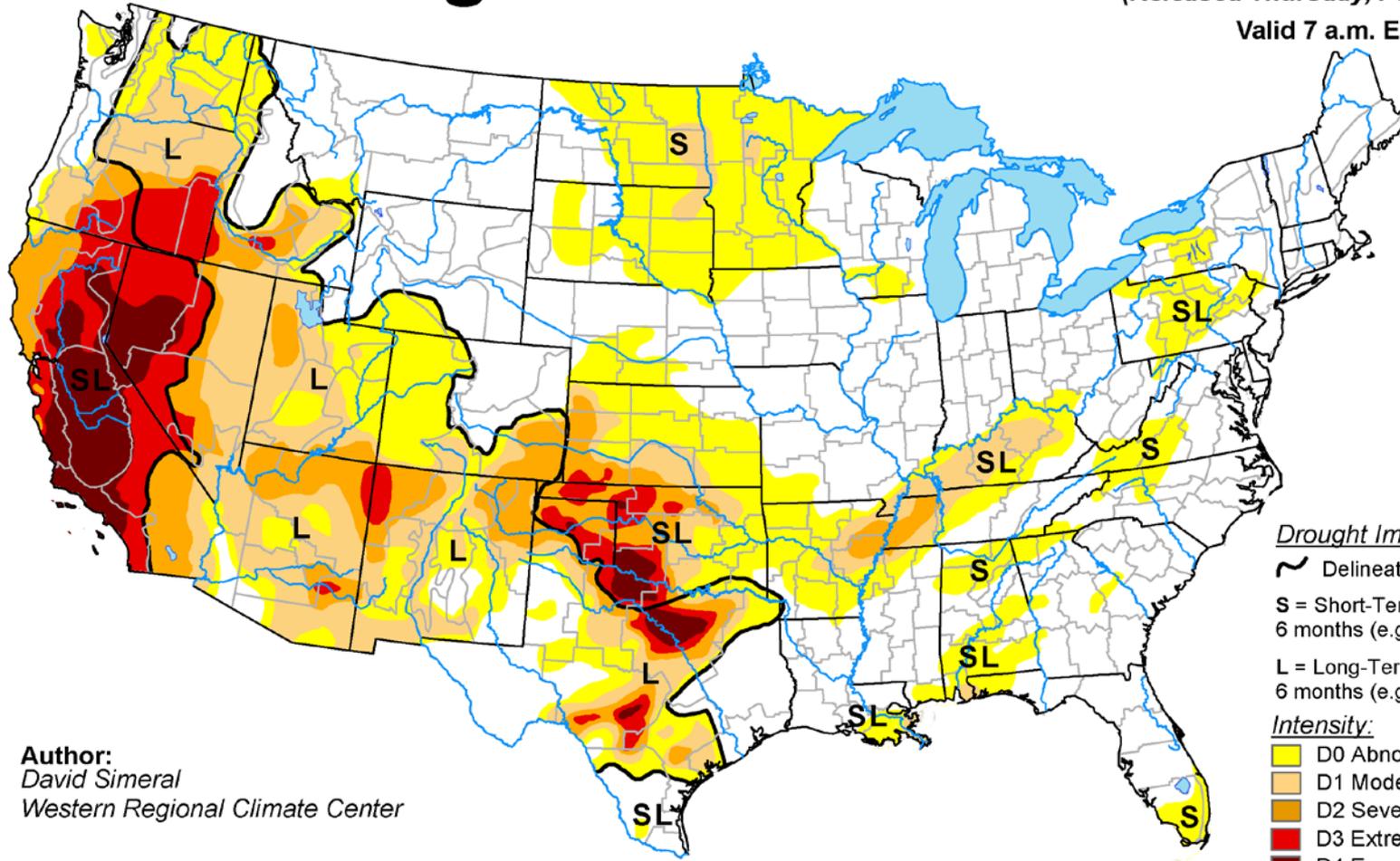


<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor

February 10, 2015
(Released Thursday, Feb. 12, 2015)

Valid 7 a.m. EST



Author:
David Simeral
Western Regional Climate Center

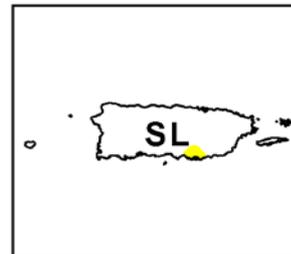
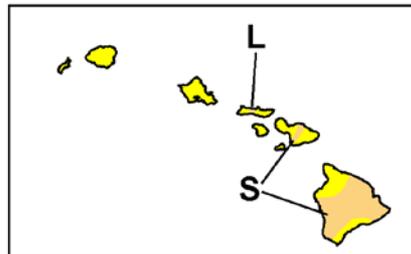
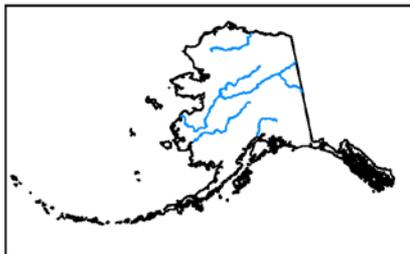
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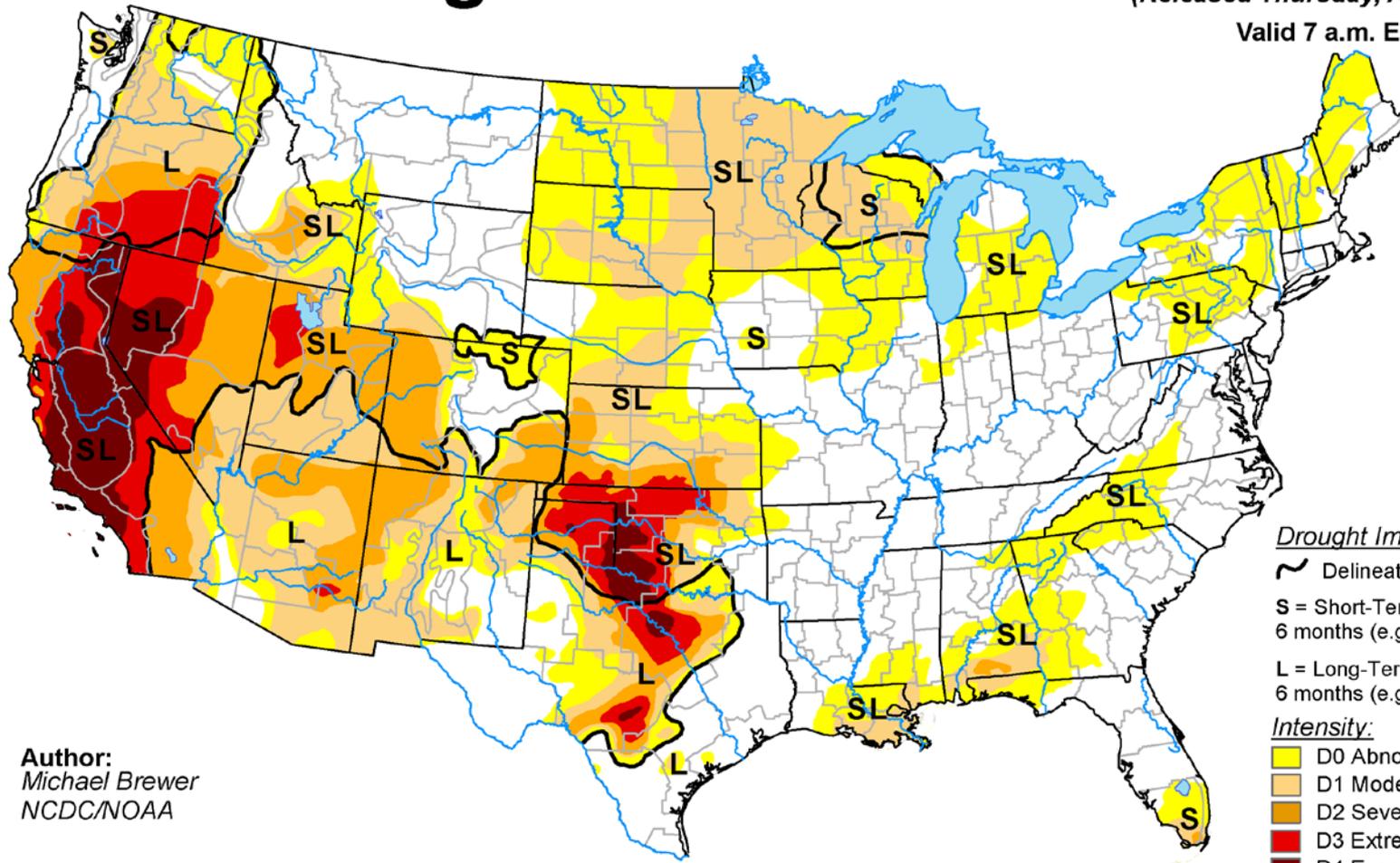
<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor

April 7, 2015

(Released Thursday, Apr. 9, 2015)

Valid 7 a.m. EST



Author:
Michael Brewer
NCDC/NOAA

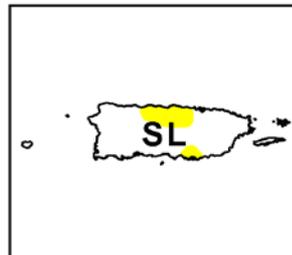
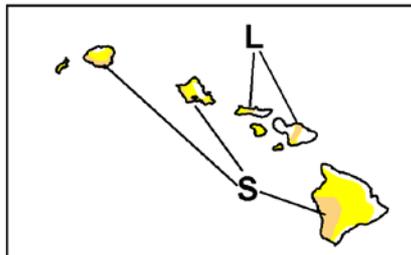
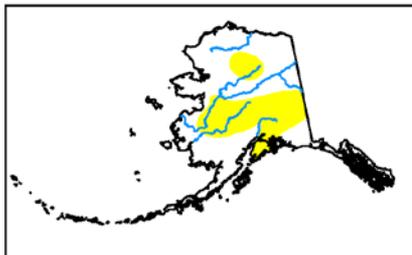
Drought Impact Types:

-  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)

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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

Colorado

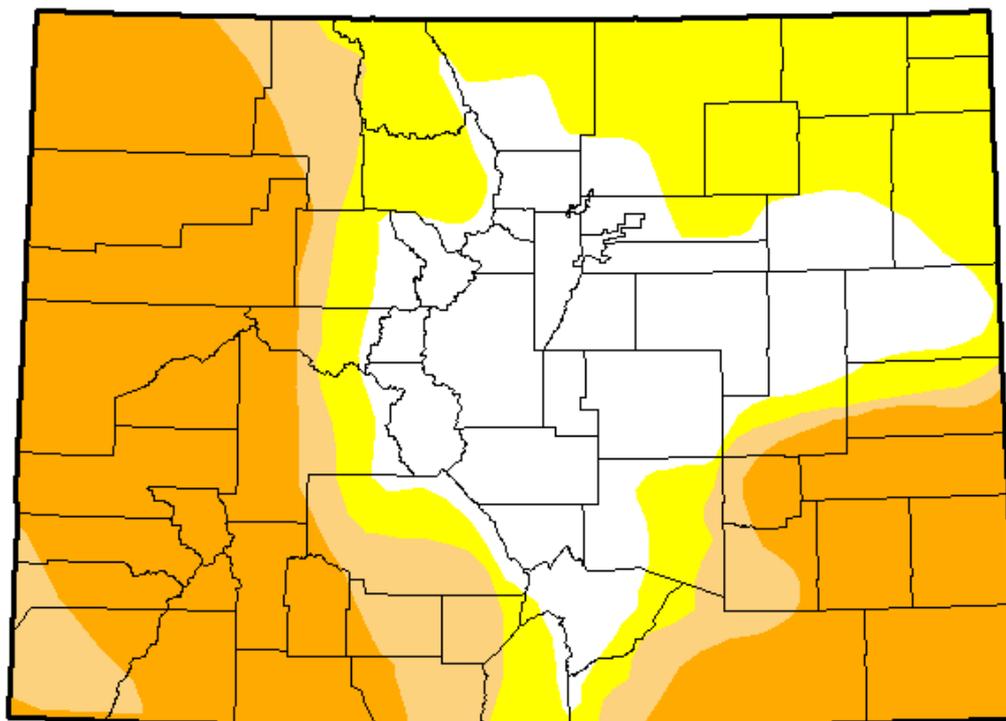
April 7, 2015

(Released Thursday, Apr. 9, 2015)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	25.49	74.51	51.74	39.75	0.00	0.00
Last Week <i>3/31/2015</i>	32.22	67.78	51.74	39.75	0.00	0.00
3 Months Ago <i>1/8/2015</i>	69.87	30.13	21.26	12.26	0.00	0.00
Start of Calendar Year <i>12/30/2014</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>4/9/2014</i>	38.38	61.62	23.40	15.06	6.90	1.47



Intensity:



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

Author:

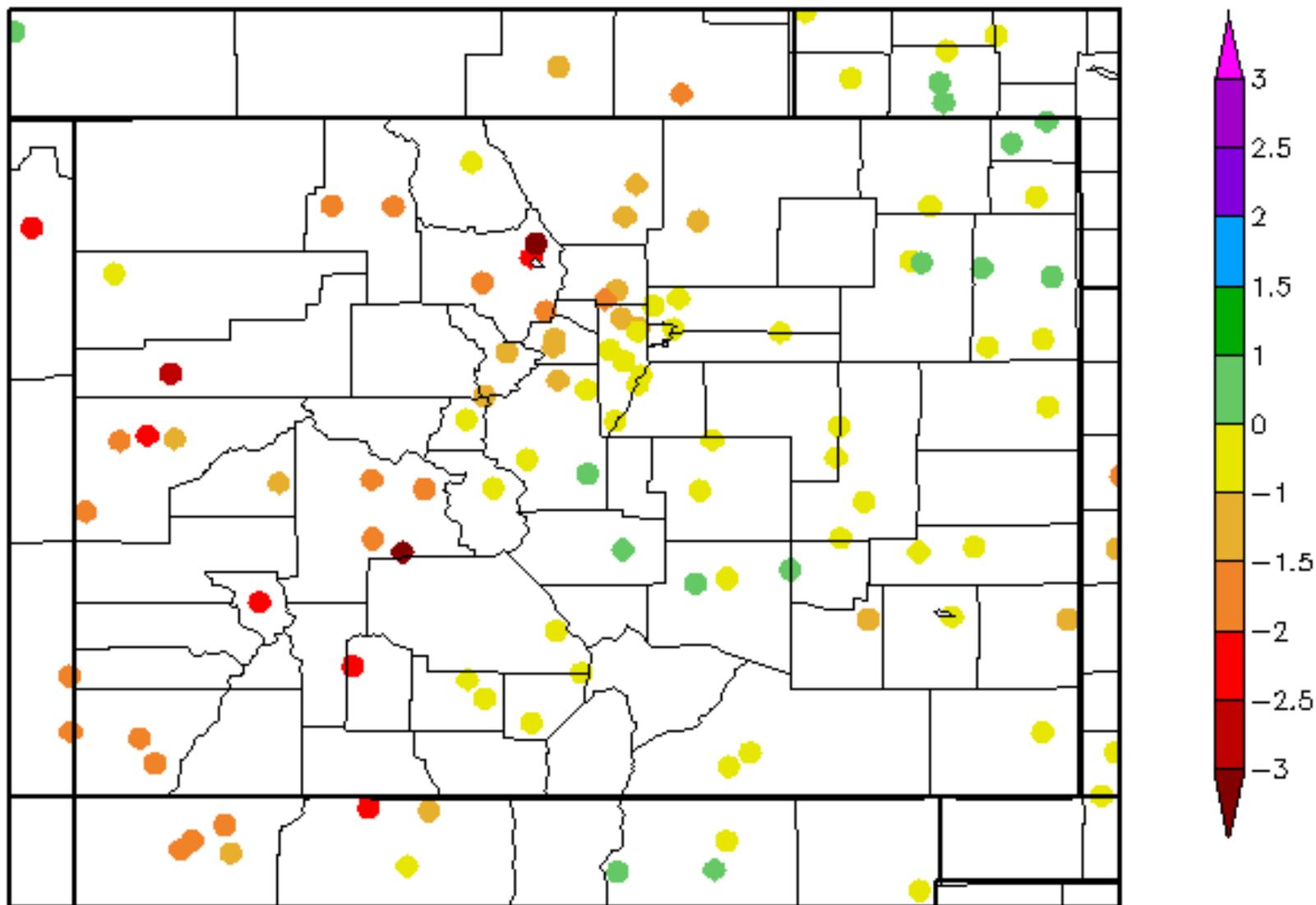
*Michael Brewer
NCDC/NOAA*



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

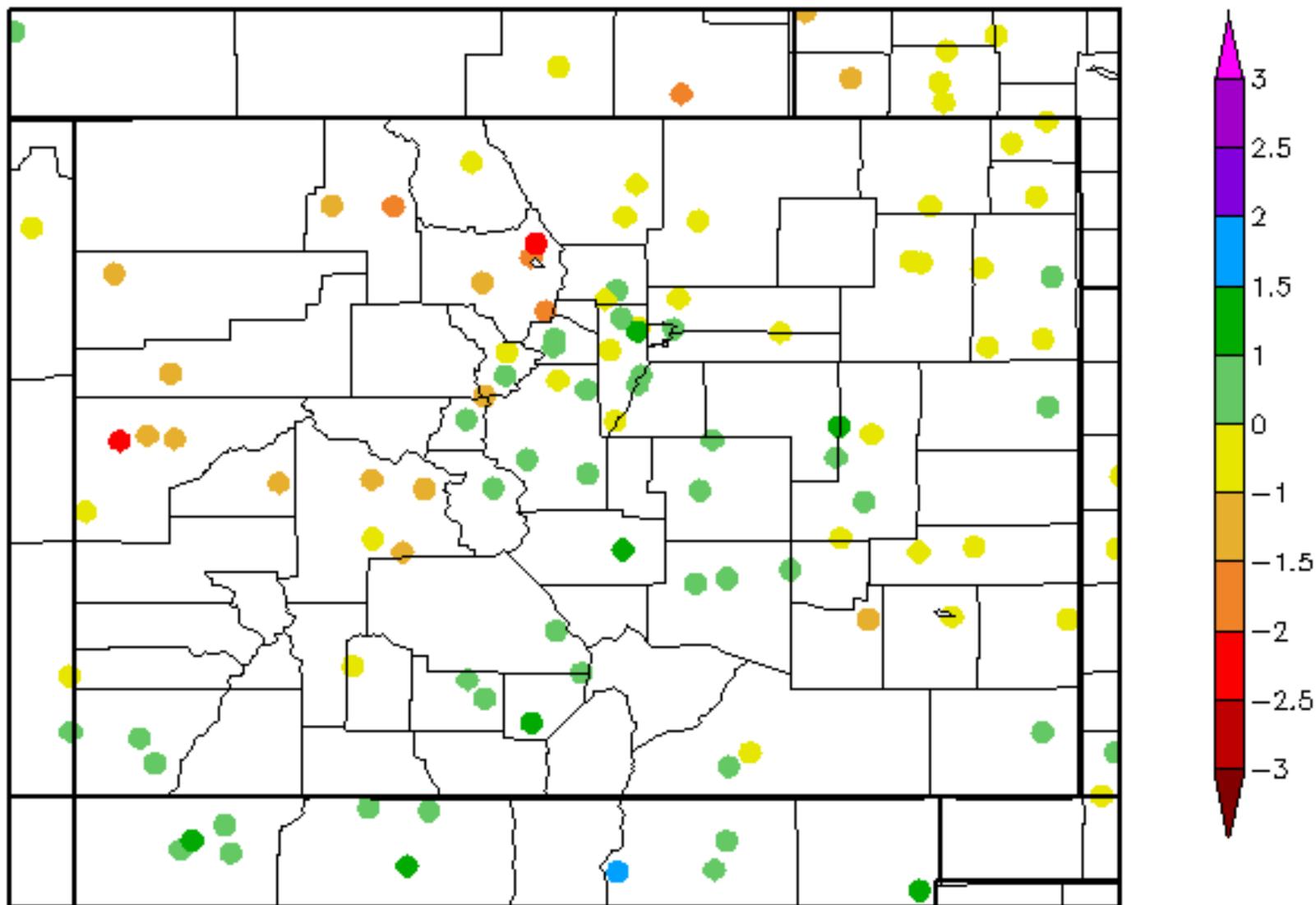
30 Day SPI

3/15/2015 - 4/13/2015



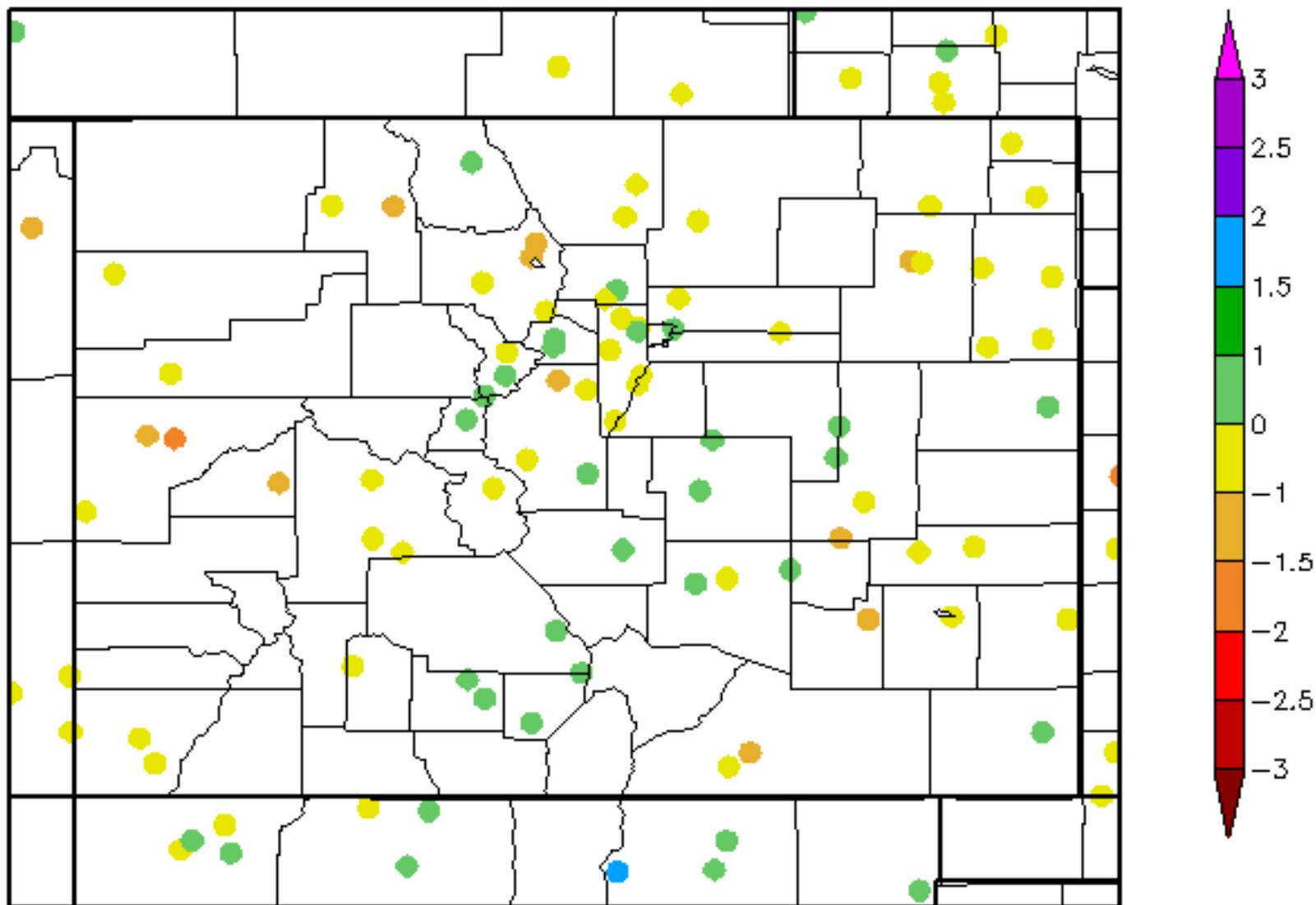
90 Day SPI

1/14/2015 - 4/13/2015



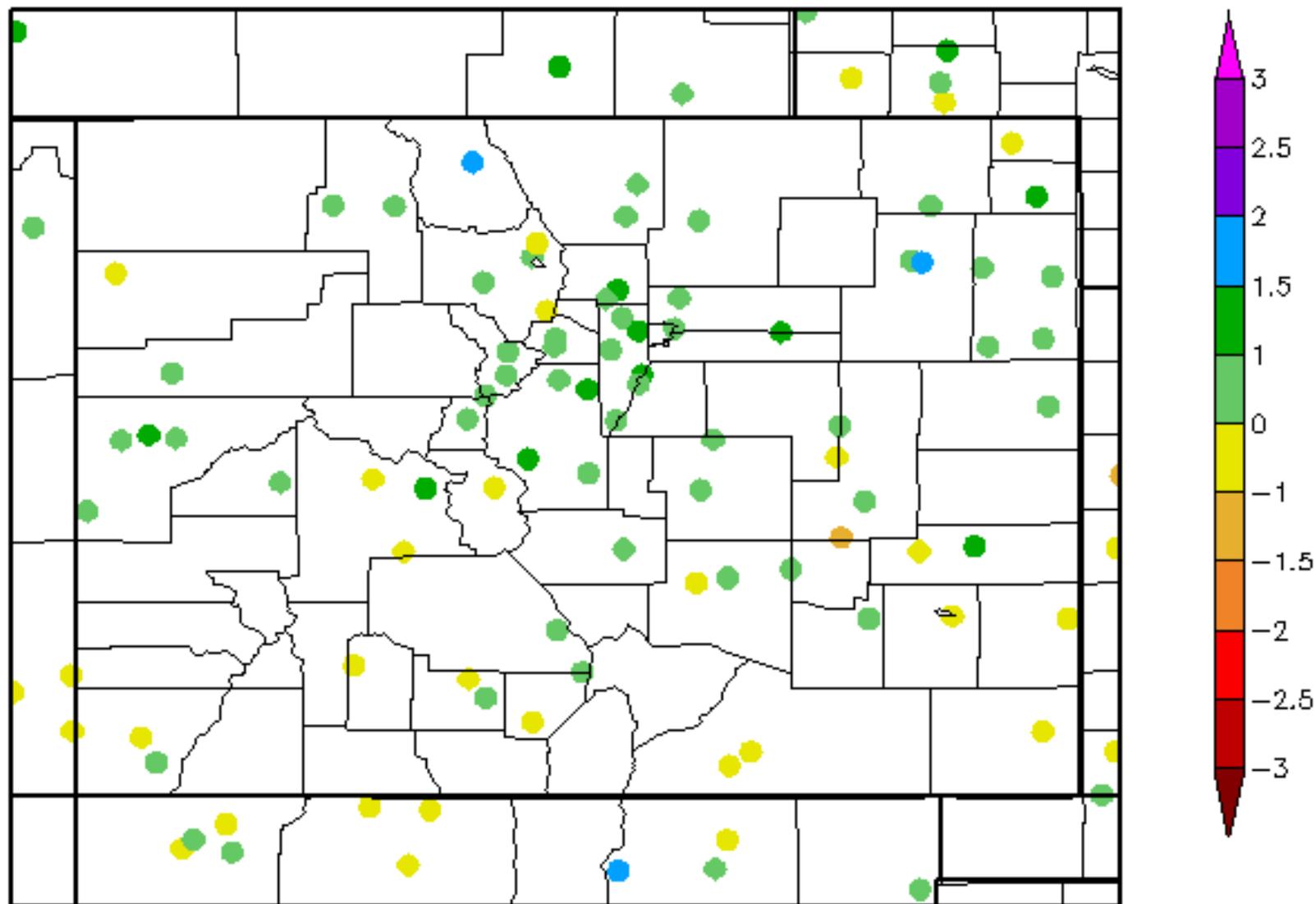
6 Month SPI

10/14/2014 - 4/13/2015



12 Month SPI

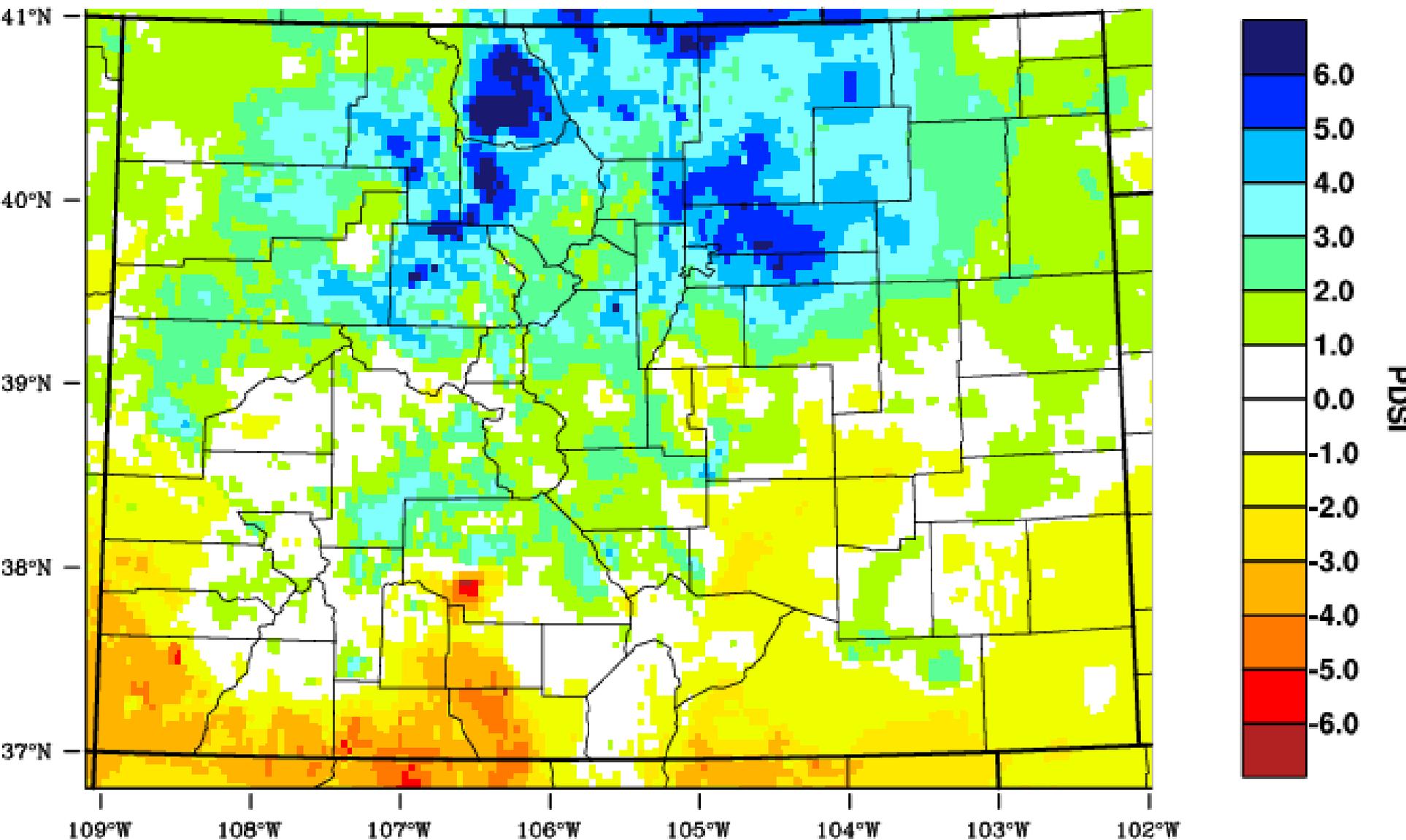
4/14/2014 - 4/13/2015



Palmer

Colorado - PDSI

December 2014

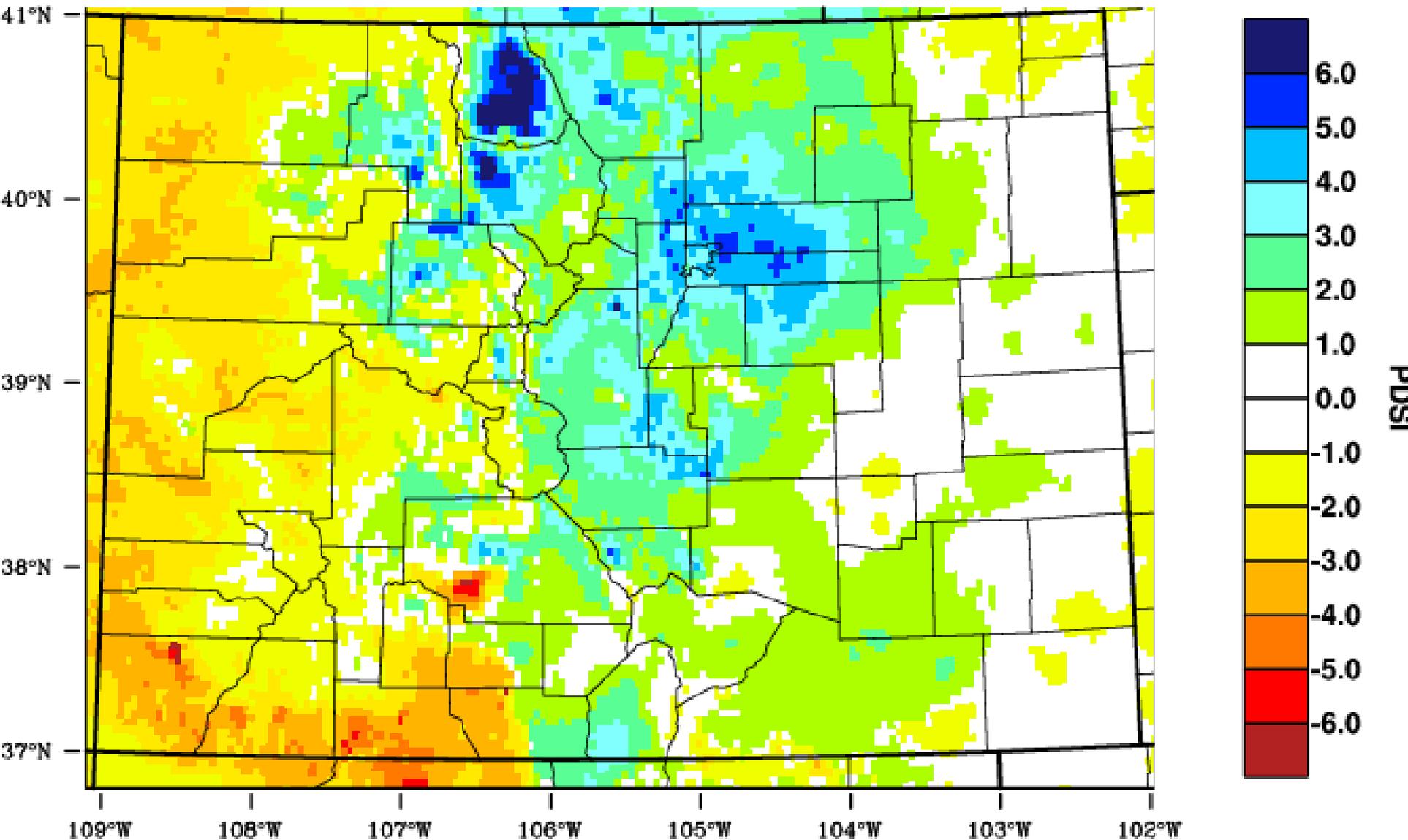


WestWide Drought Tracker - WRCC/UI Data Source - PRISM (Prelim), created 16 JAN 2015

Palmer

Colorado - PDSI

March 2015



WestWide Drought Tracker - WRCC/UI Data Source - PRISM (Prelim), created 11 APR 2015

Colorado Climate Center

Data and Power Point Presentations available for downloading

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



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