



Climate Update

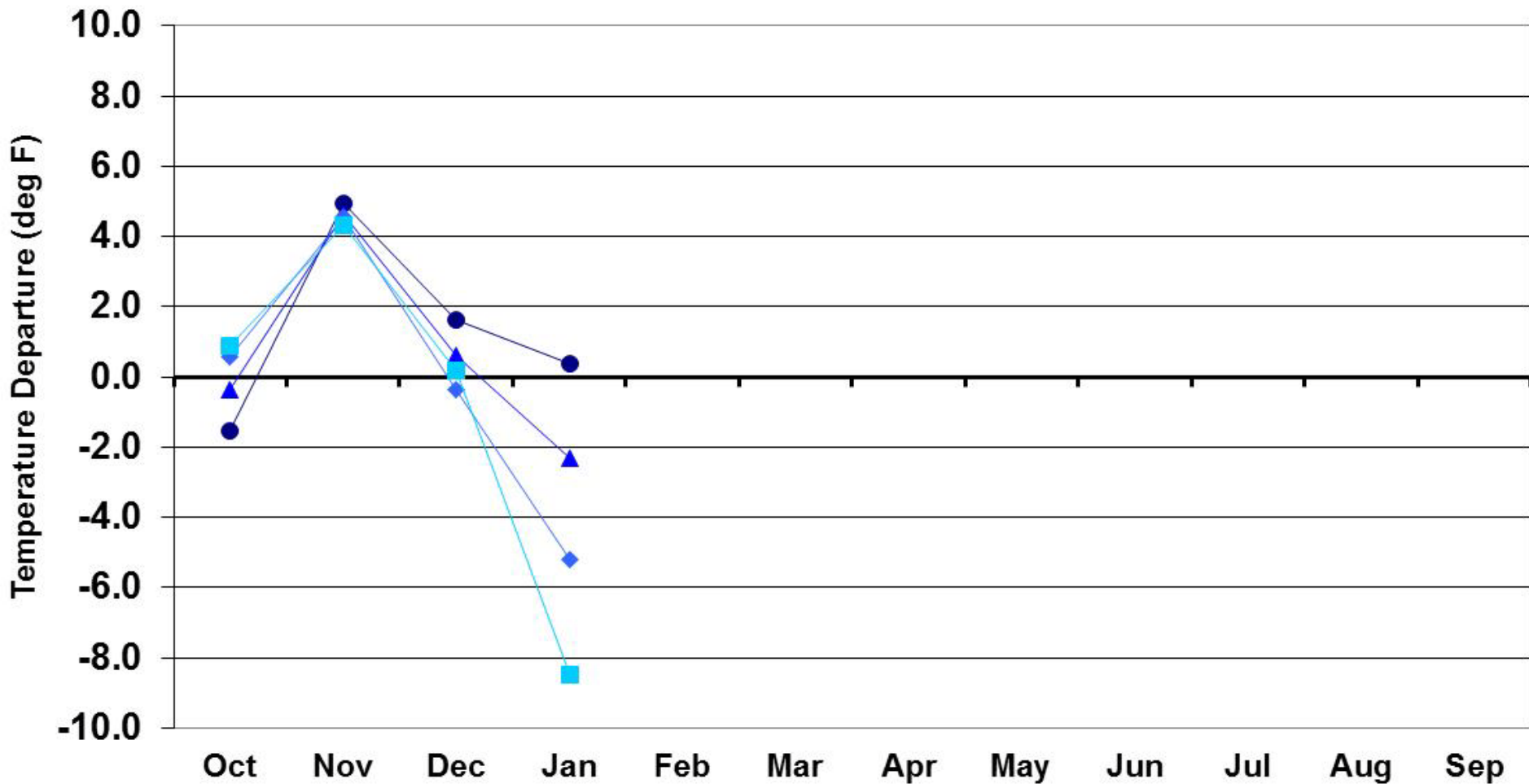
Wendy Ryan
Colorado Climate Center

Atmospheric Science Department
Colorado State University

Presented to
Water Availability Task Force
14 February 2013
Denver, CO

Water Year 2012 Temperature Departures

Water Year 2013



● Eastern Plains

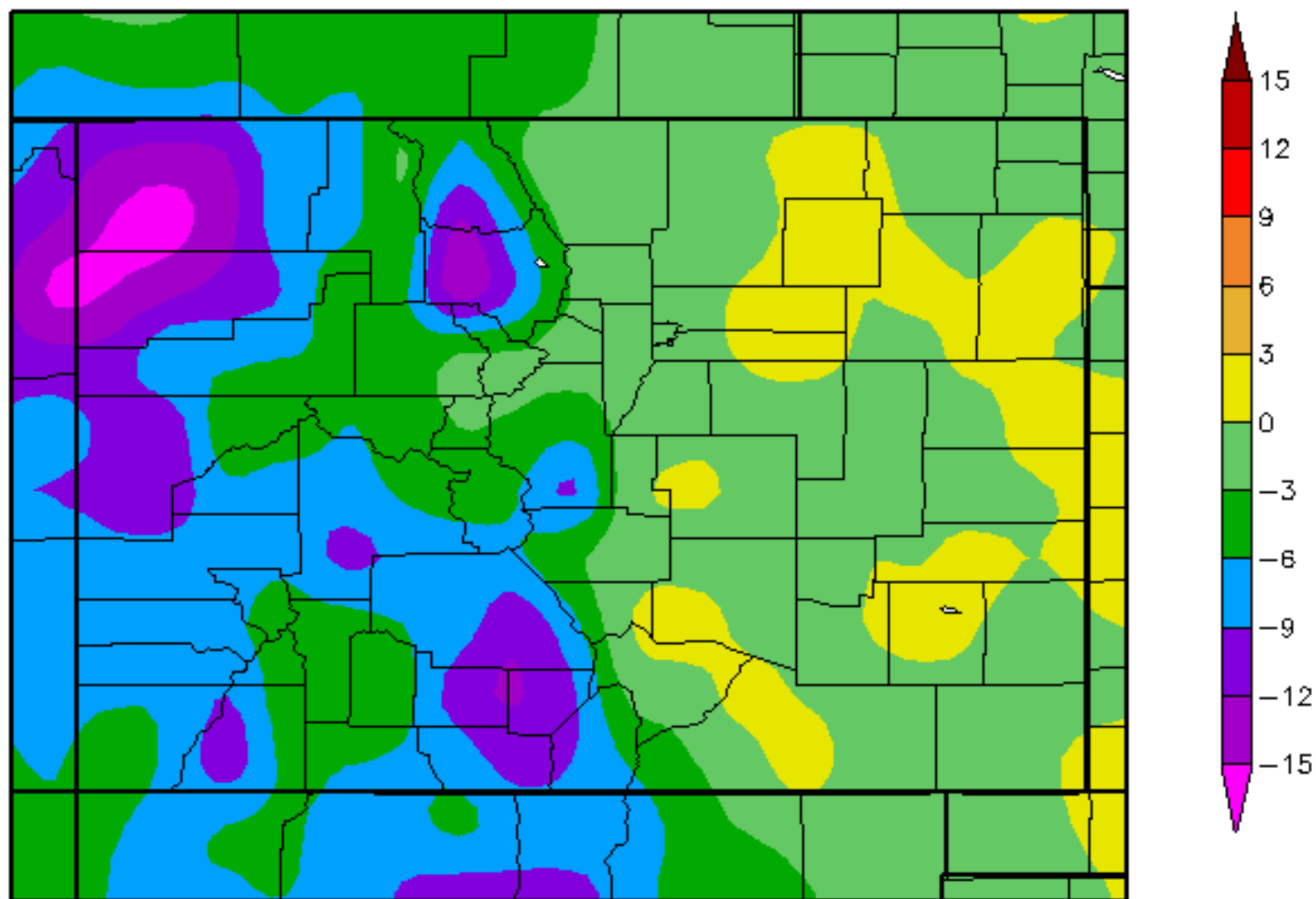
▲ Foothills

◆ Mountains

■ Western Valleys

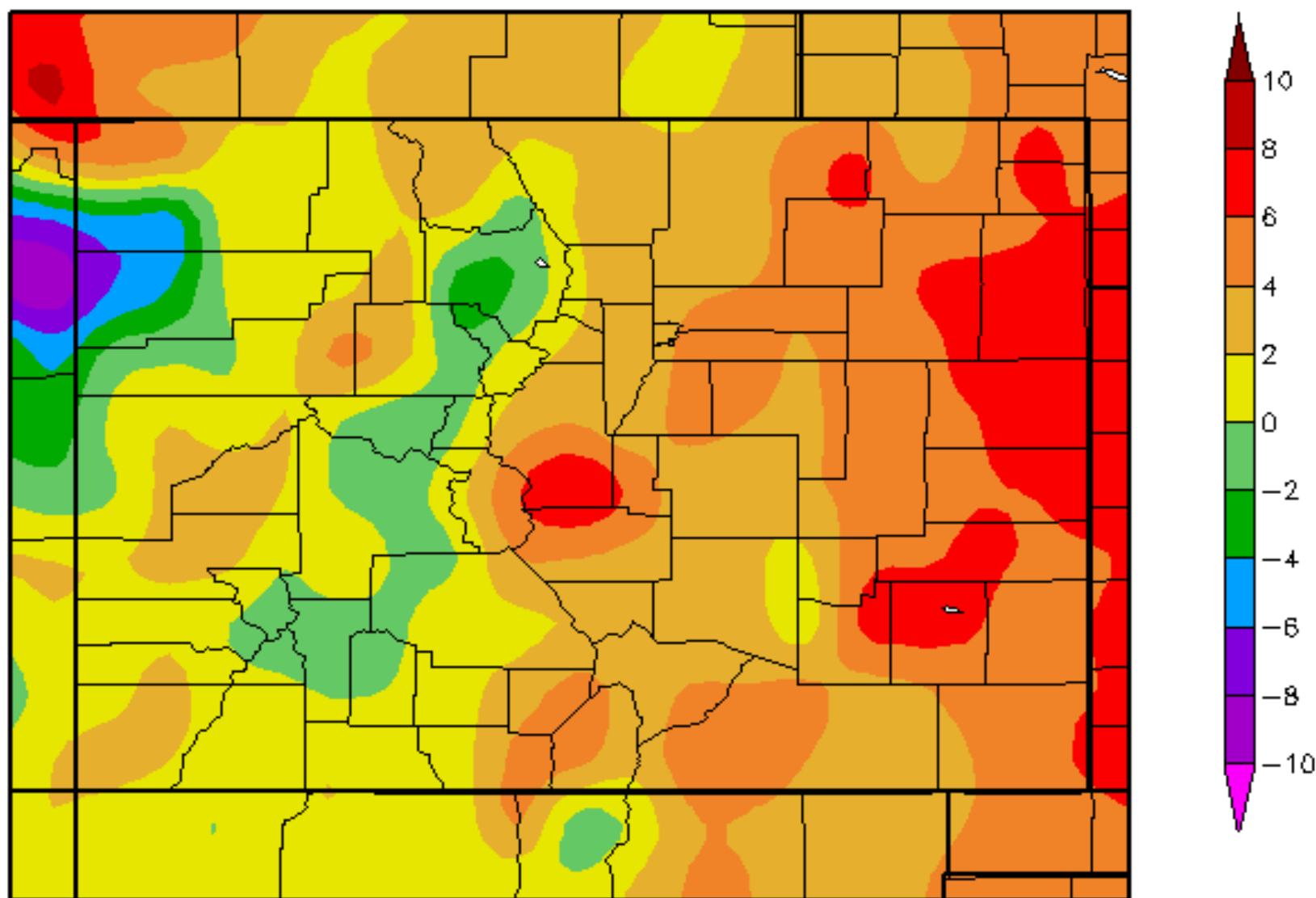
Departure from Normal Temperature (F)

1/1/2013 - 1/31/2013

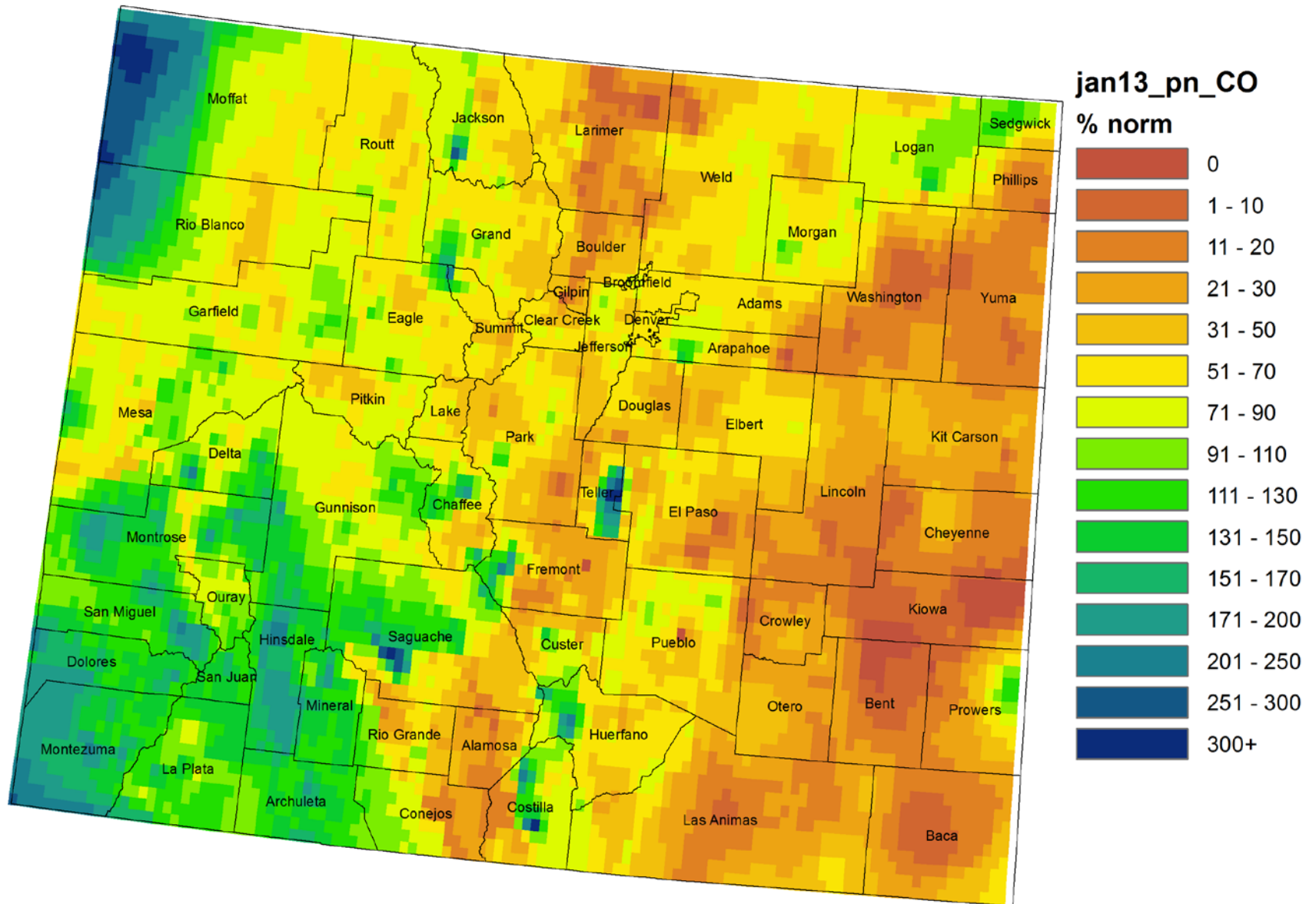


Departure from Normal Temperature (F)

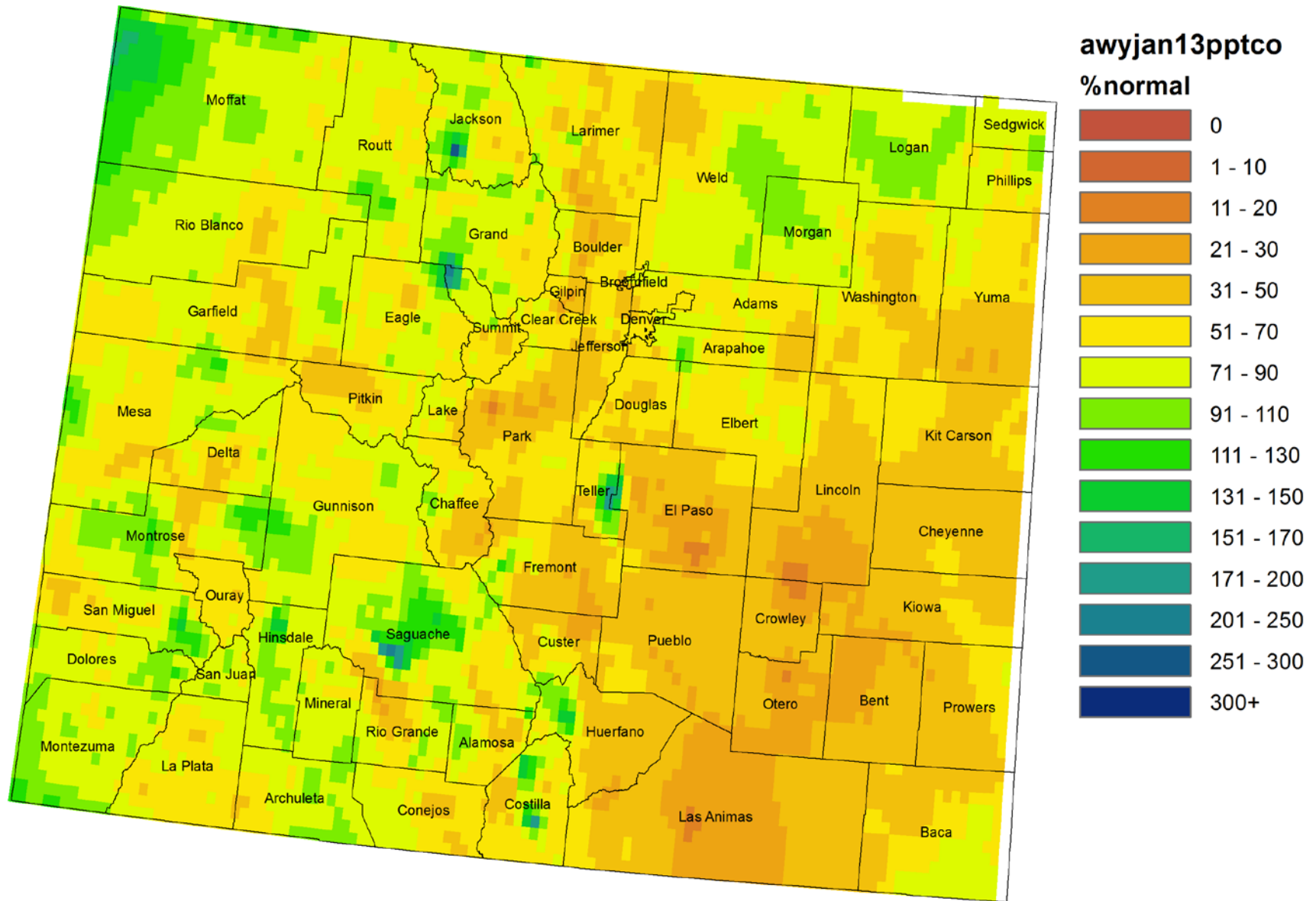
2/1/2013 - 2/11/2013



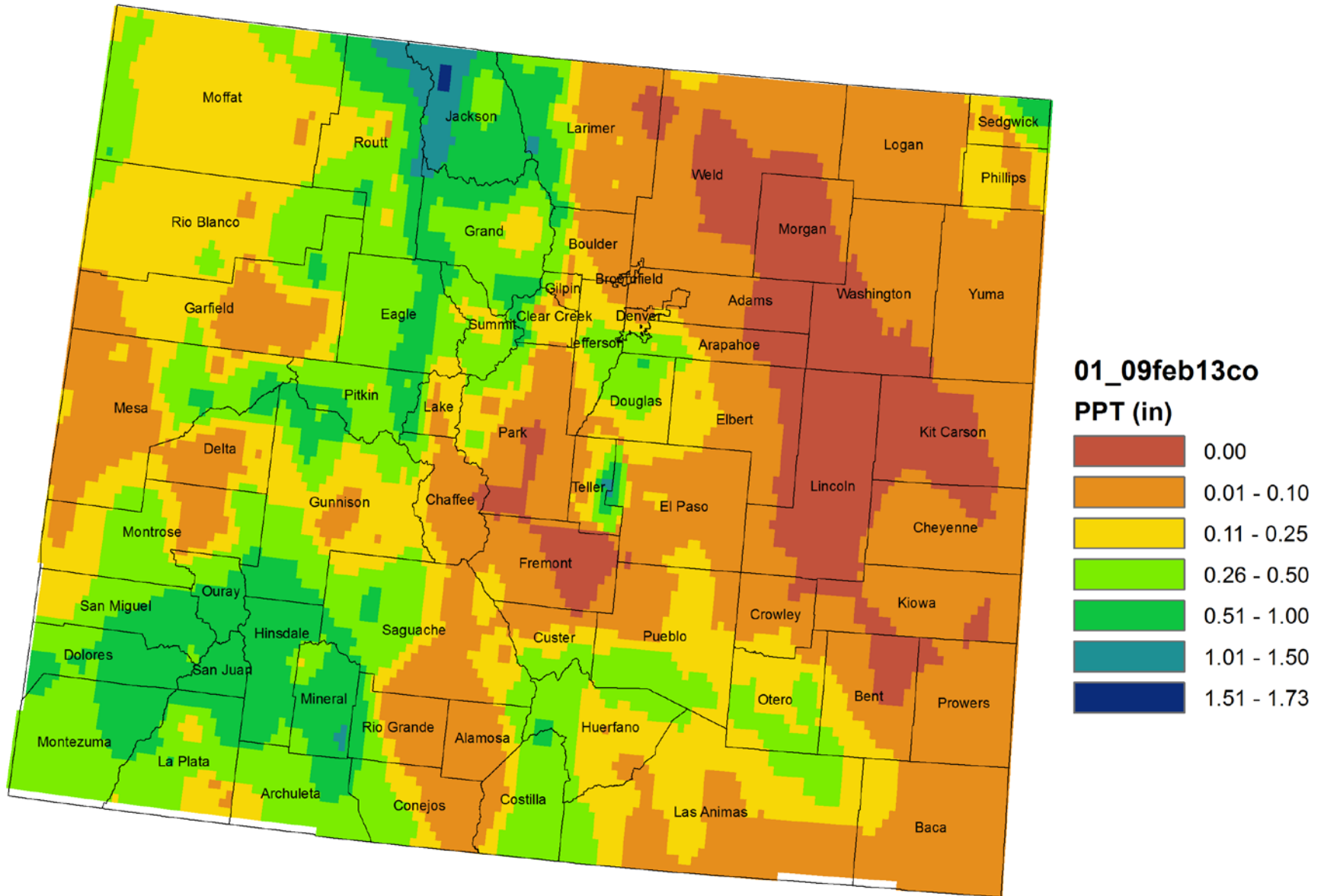
Colorado January 2013 Precipitation as Percentage of Normal



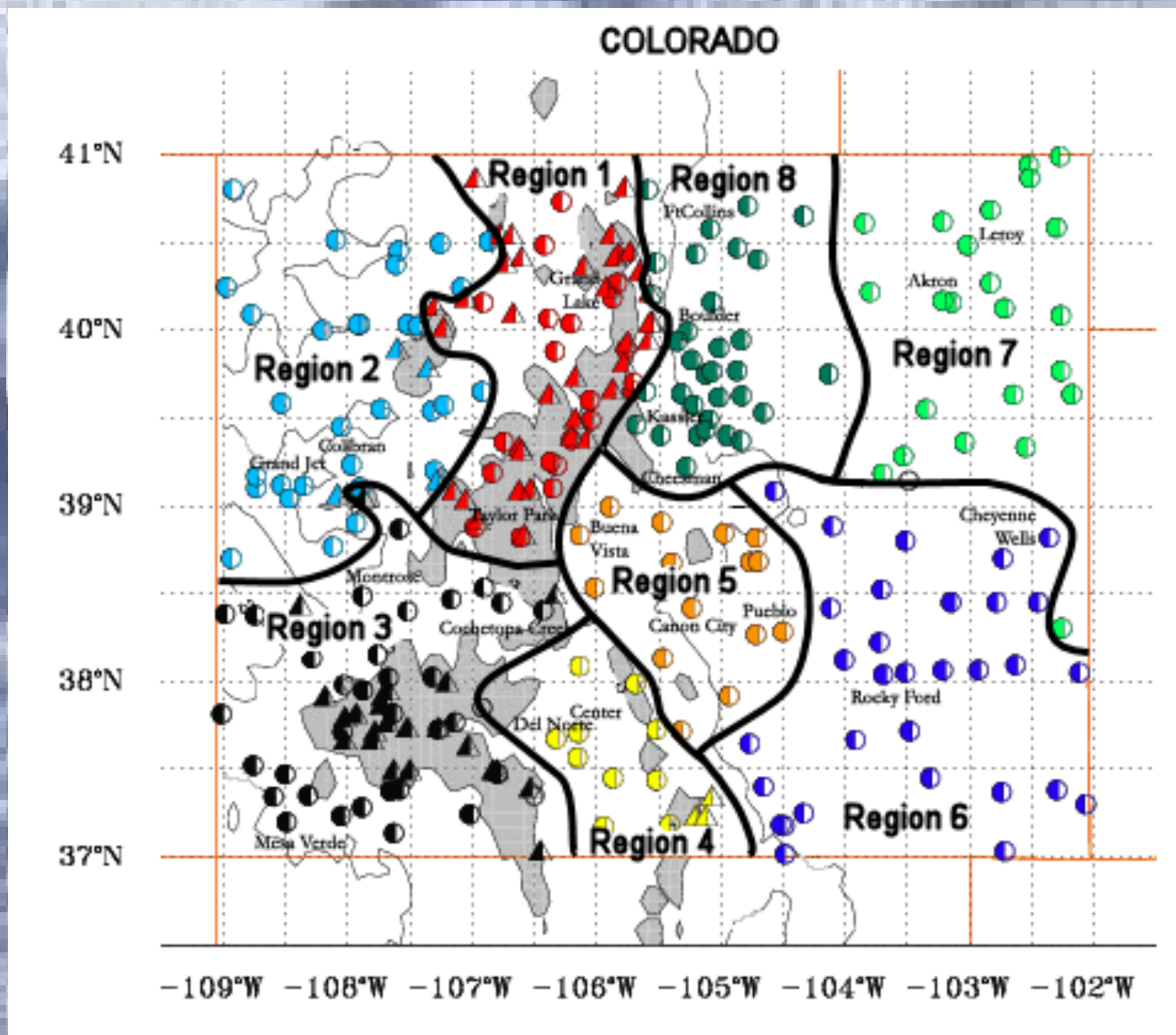
Colorado Water Year 2013 Precipitation as Percentage of Normal (October 2012 - January 2013)



Colorado 1-9 January 2013 Precipitation (in)

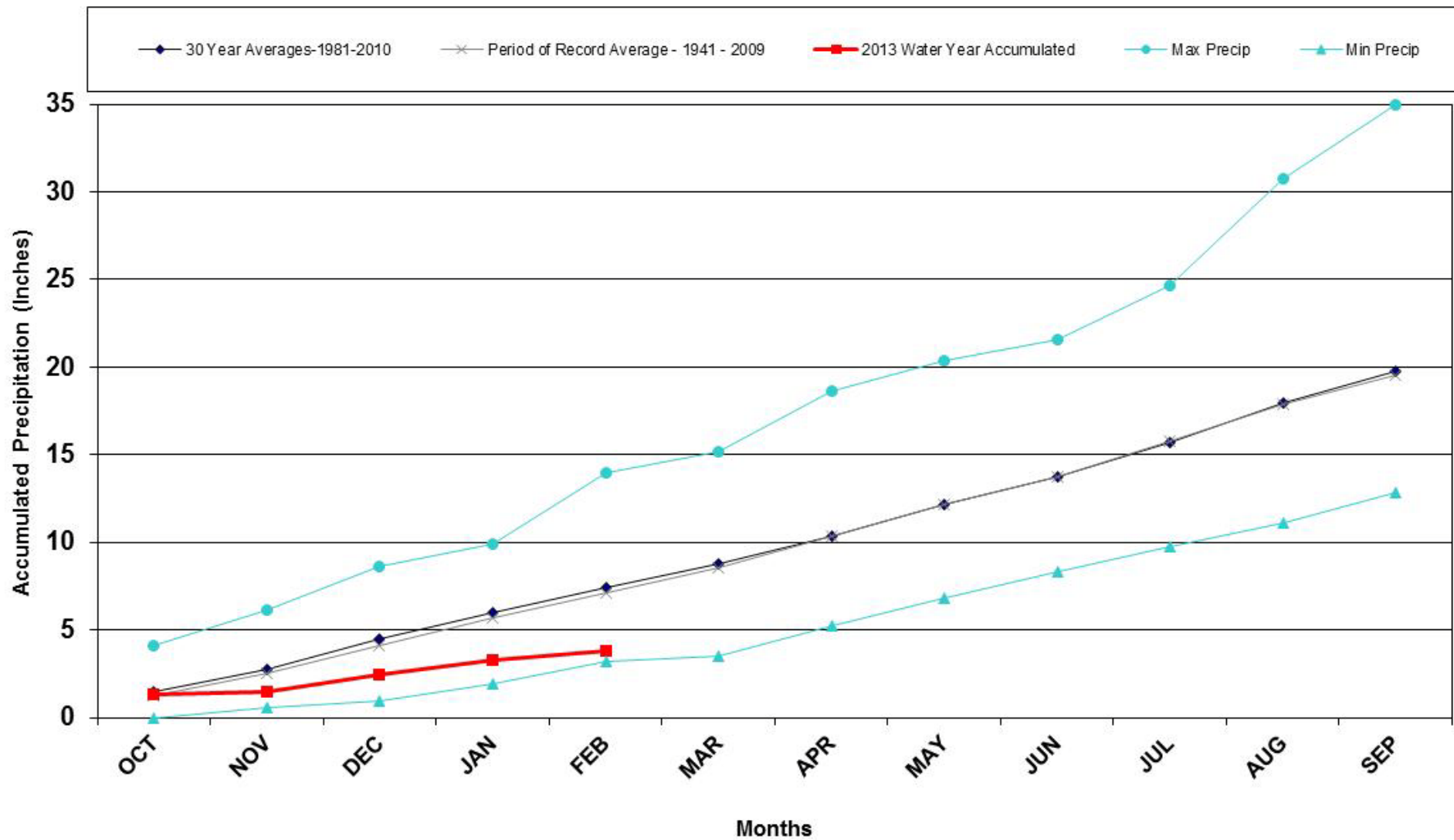


Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO



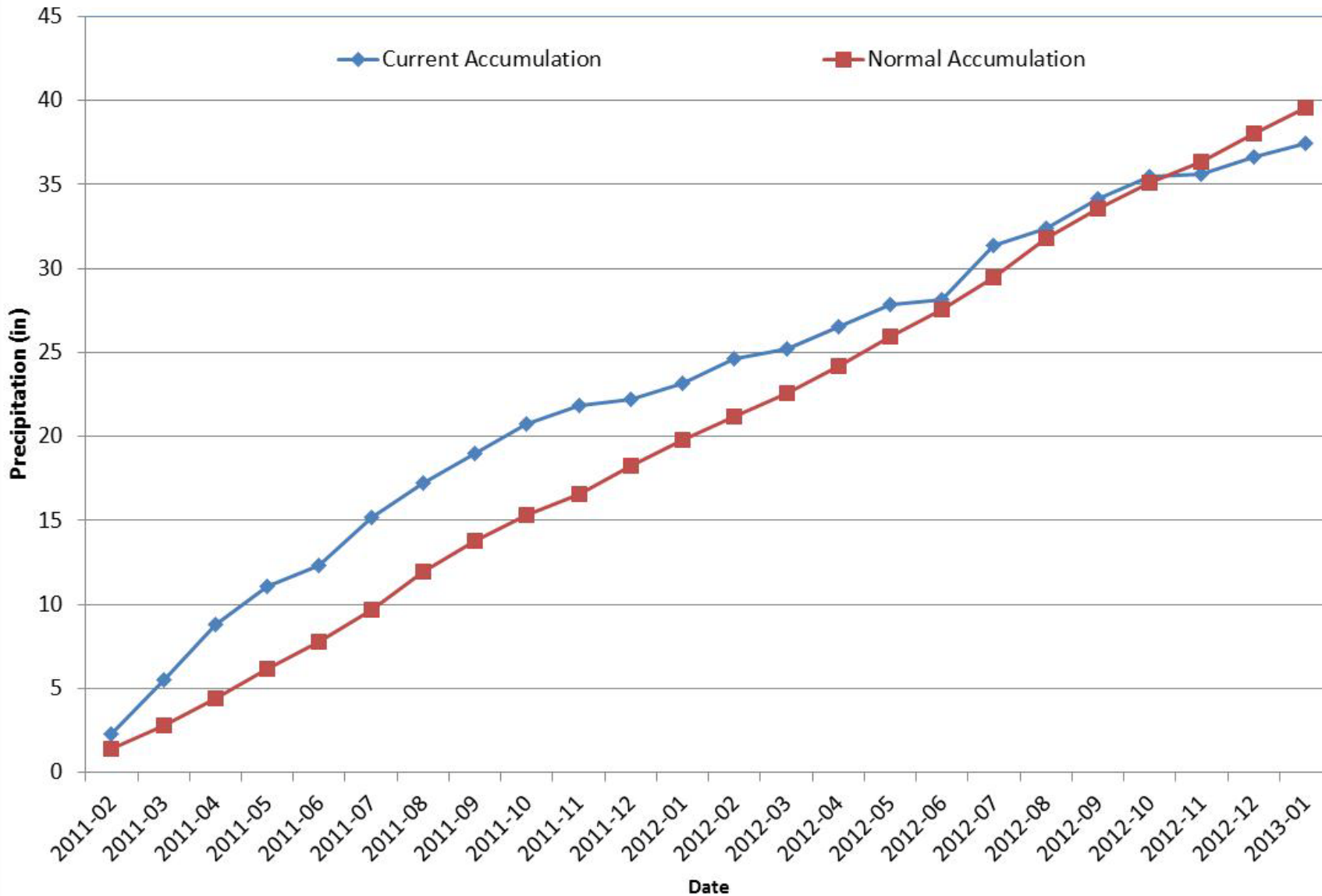
Division 1 – Grand Lake 1NW

Grand Lake 1 NW 2013 Water Year



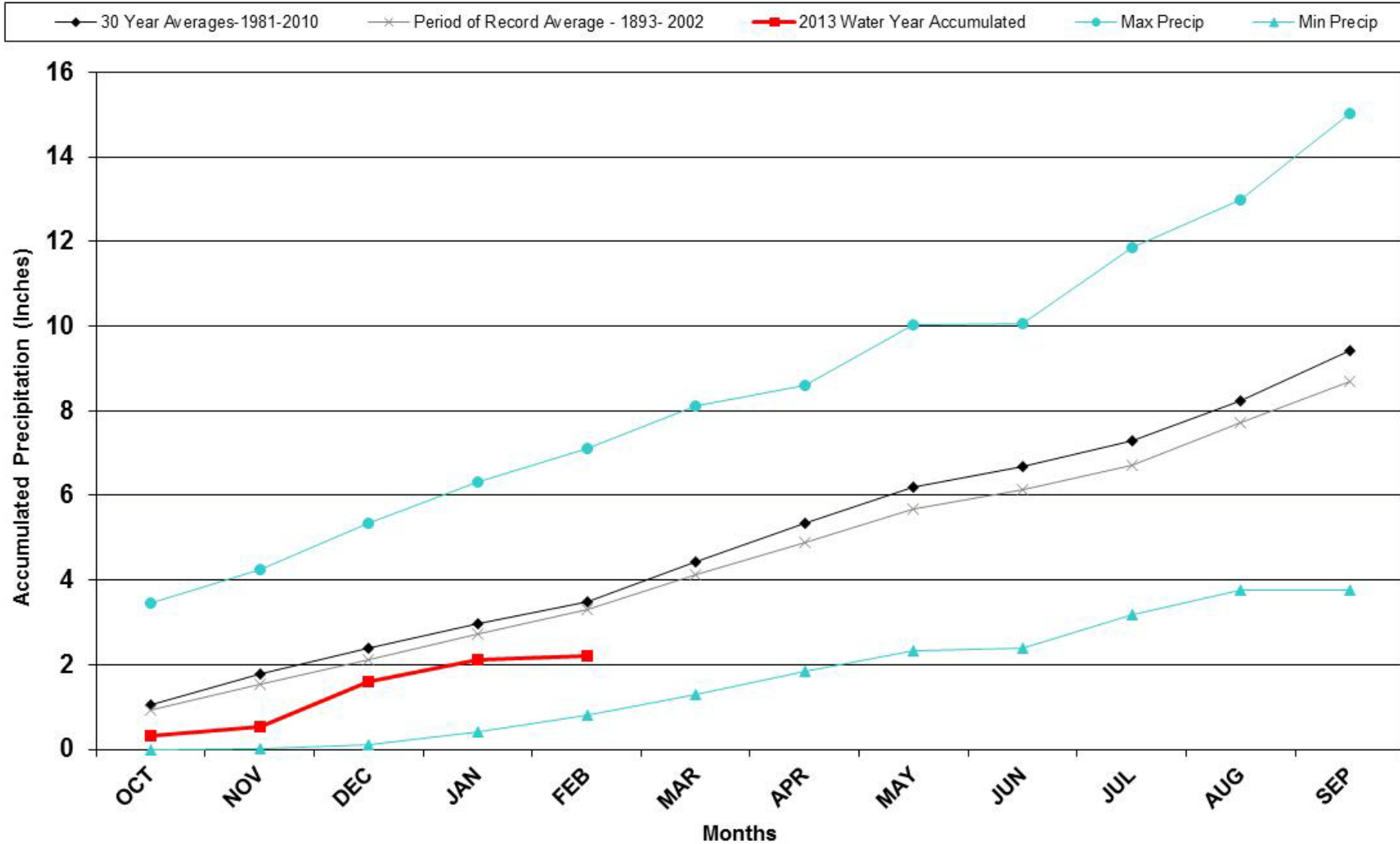
Division 1 – Grand Lake 1NW

Grand Lake 1NW 24 Month Precipitation Accumulation



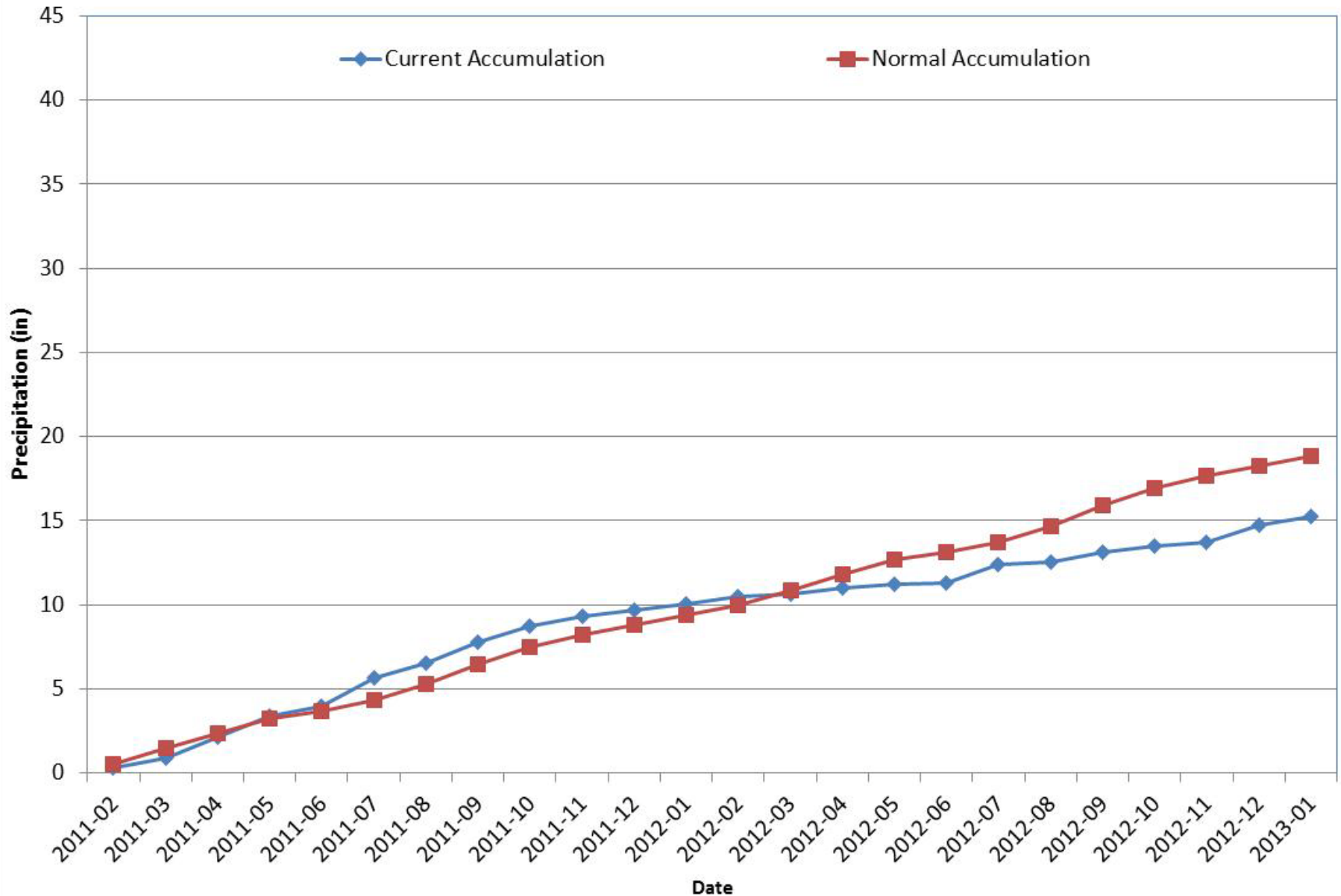
Division 2 – Grand Junction

Grand Junction WSFO 2013 Water Year



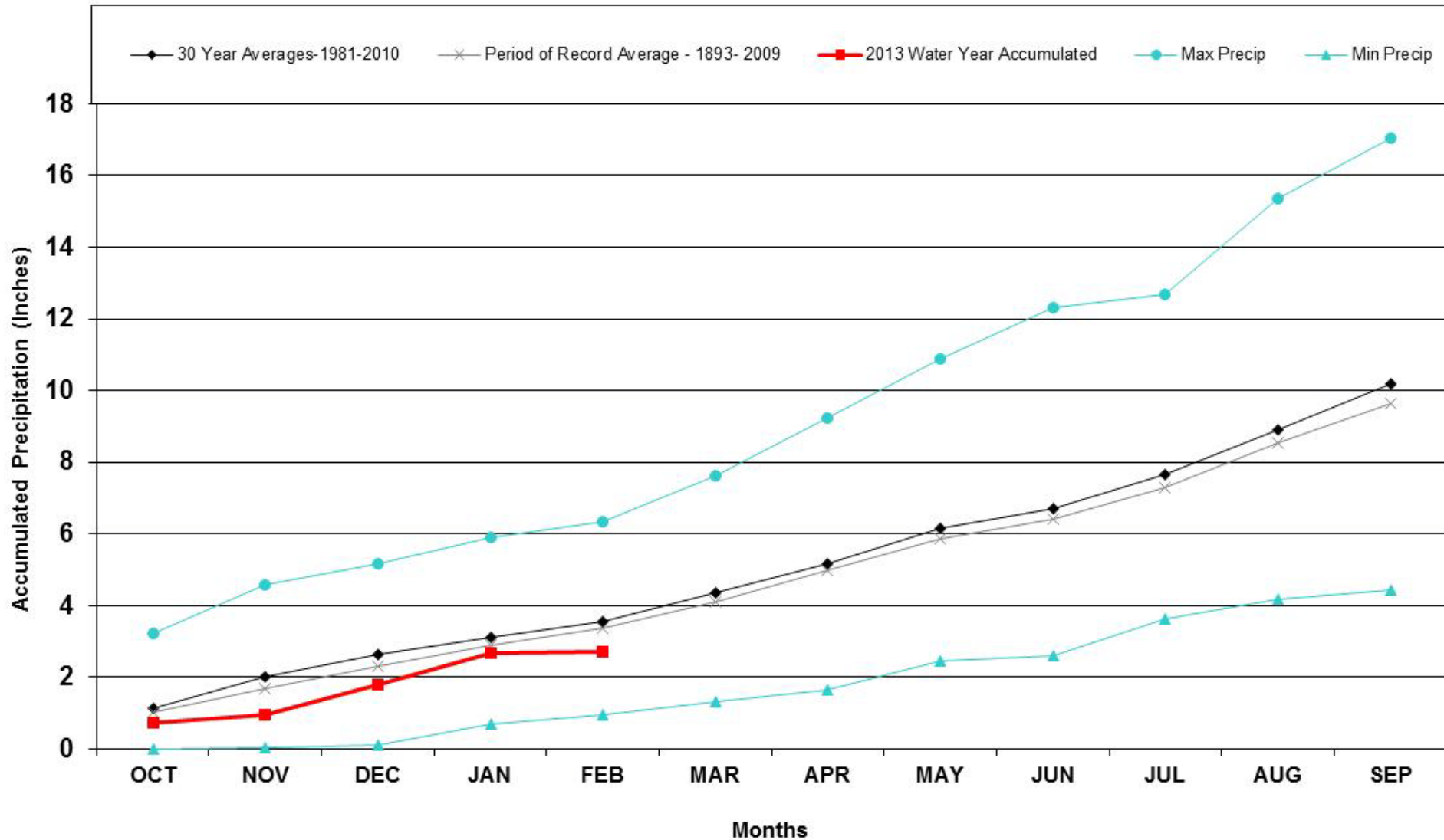
Division 2 – Grand Junction

Grand Junction 24 Month Precipitation Accumulation



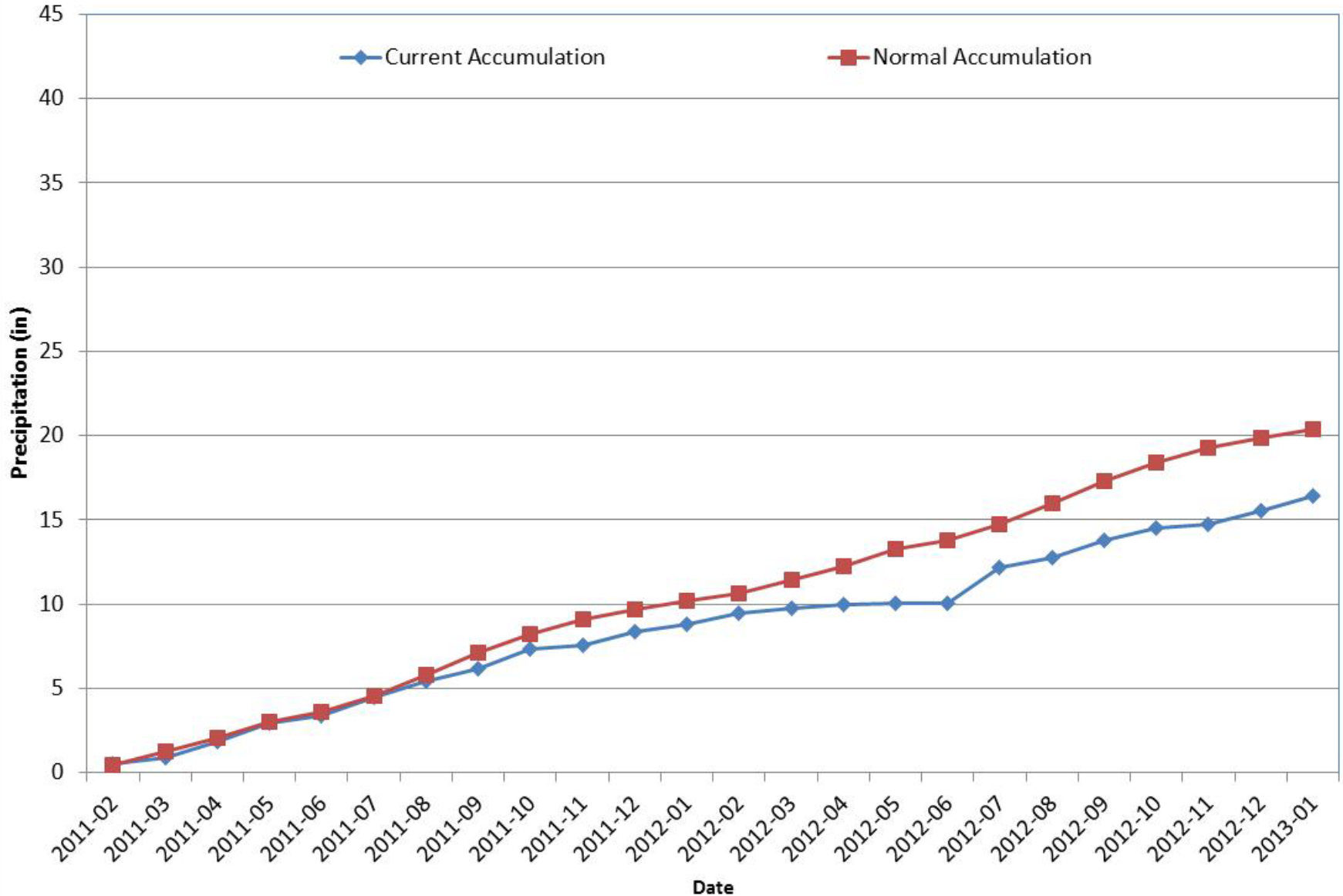
Division 3 – Montrose

Montrose #2 2013 Water Year



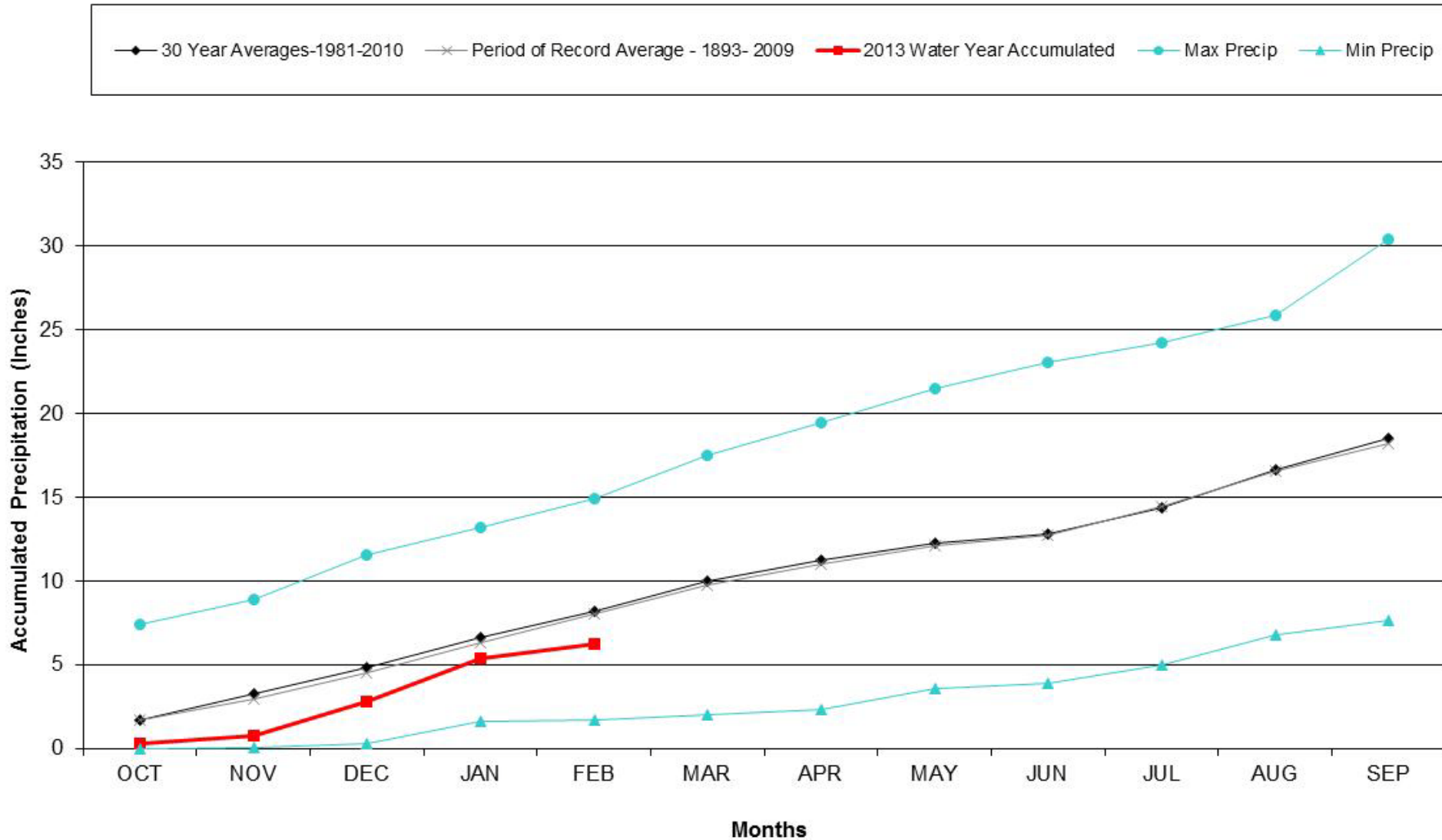
Division 3 – Montrose

Montrose #2 24 Month Precipitation Accumulation



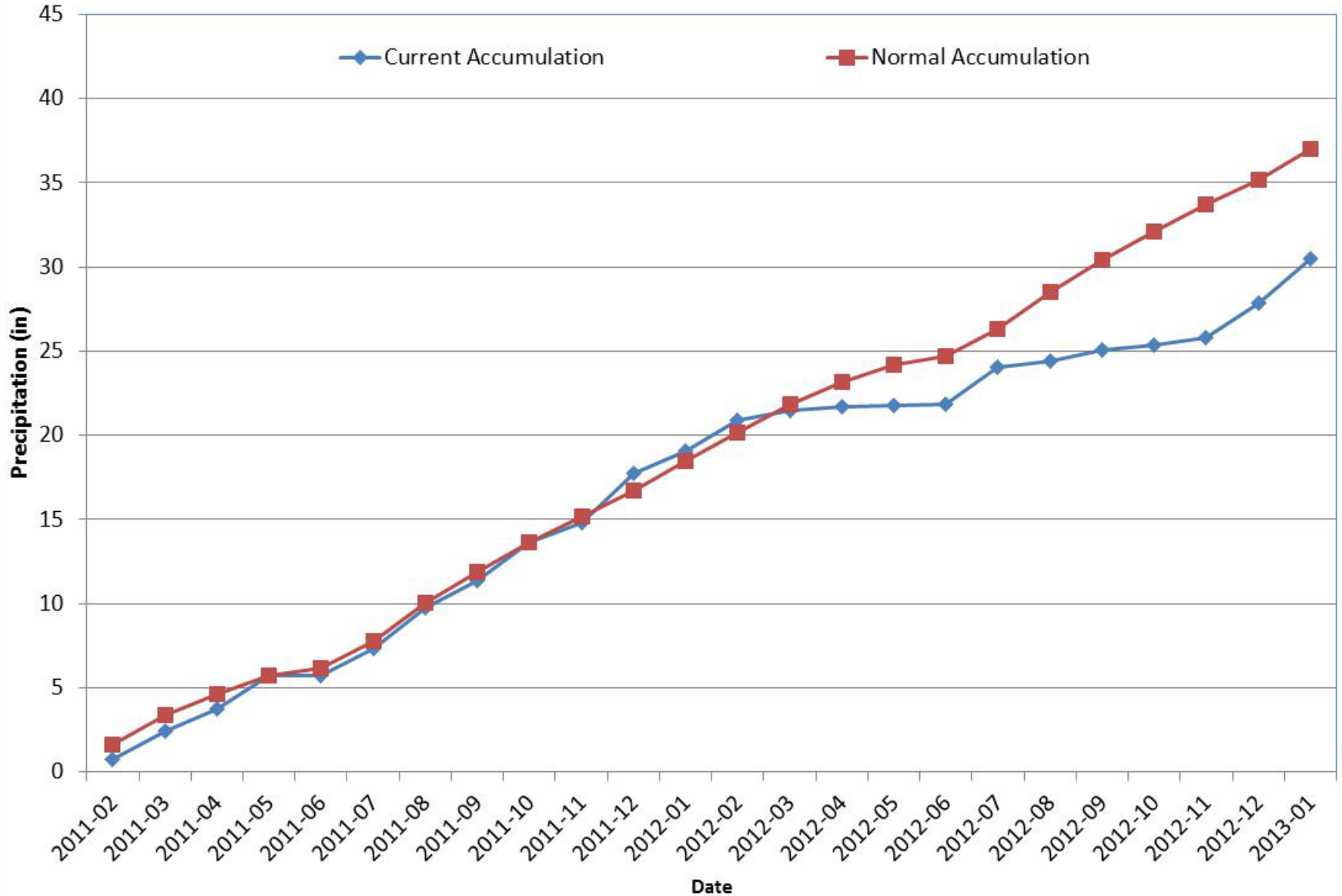
Division 3 – Mesa Verde NP

Mesa Verde NP 2013 Water Year



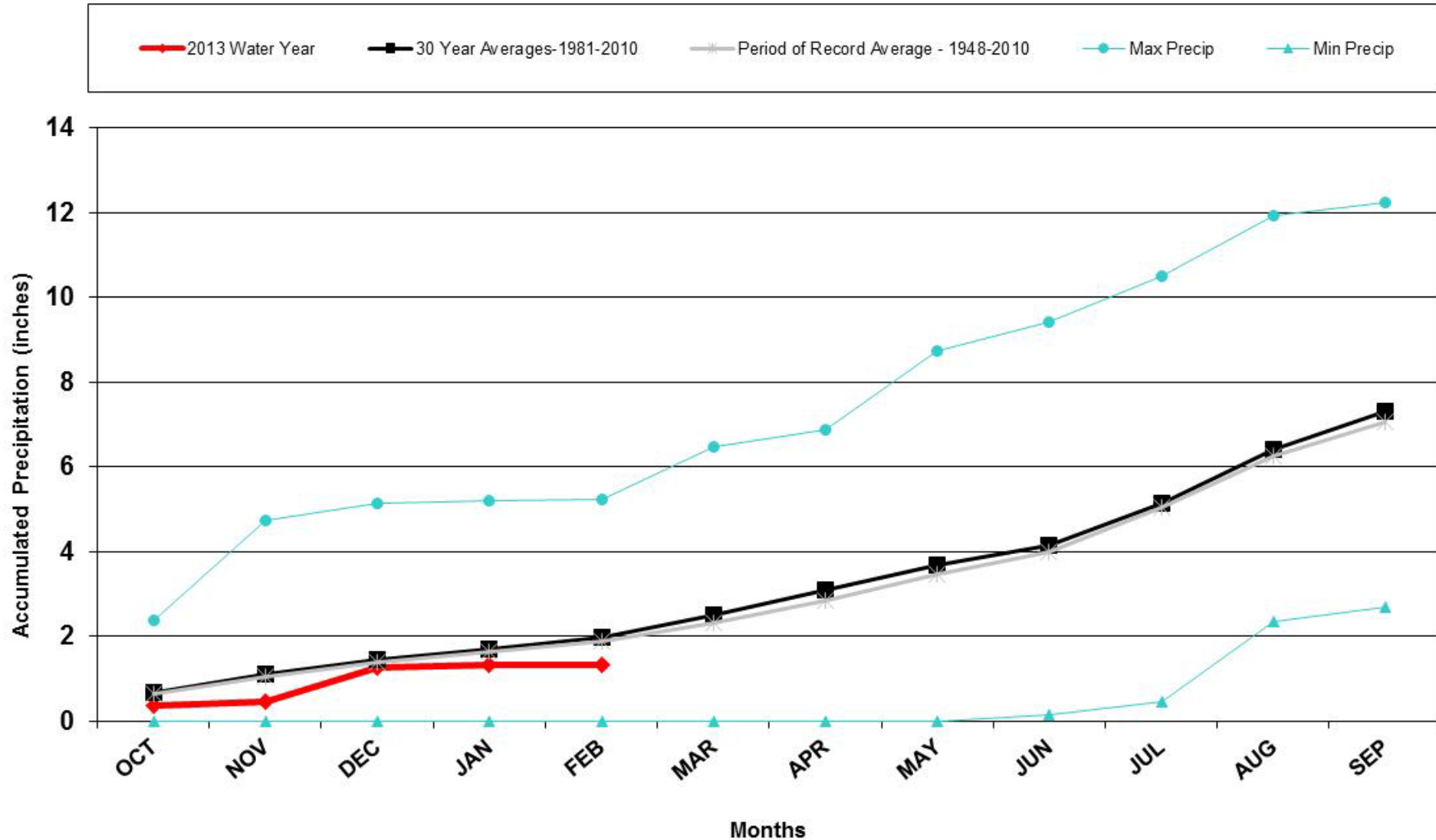
Division 3 – Mesa Verde NP

Mesa Verde NP 24 Month Precipitation Accumulation



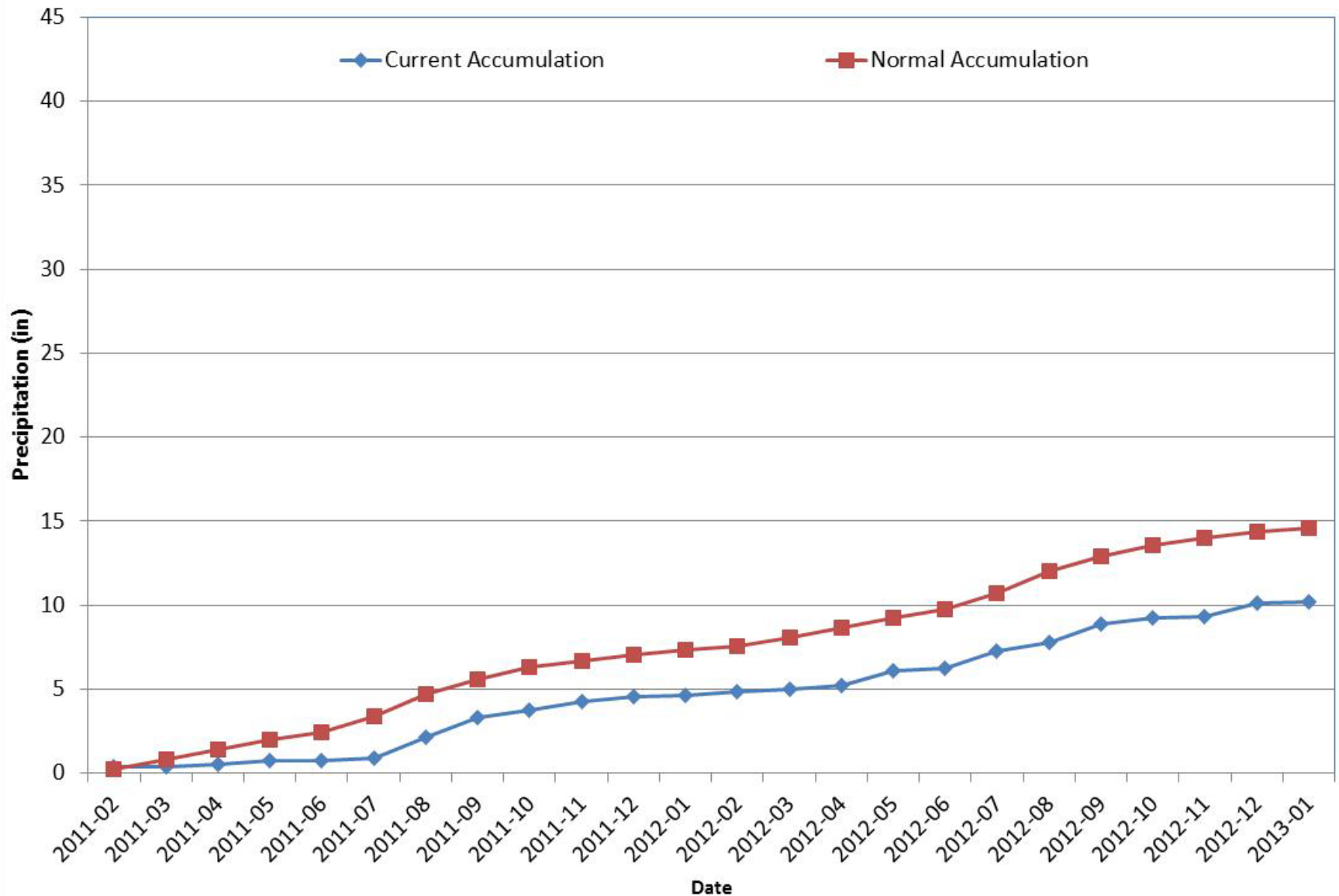
Division 4 – Alamosa

Alamosa WSO 2013 Water Year



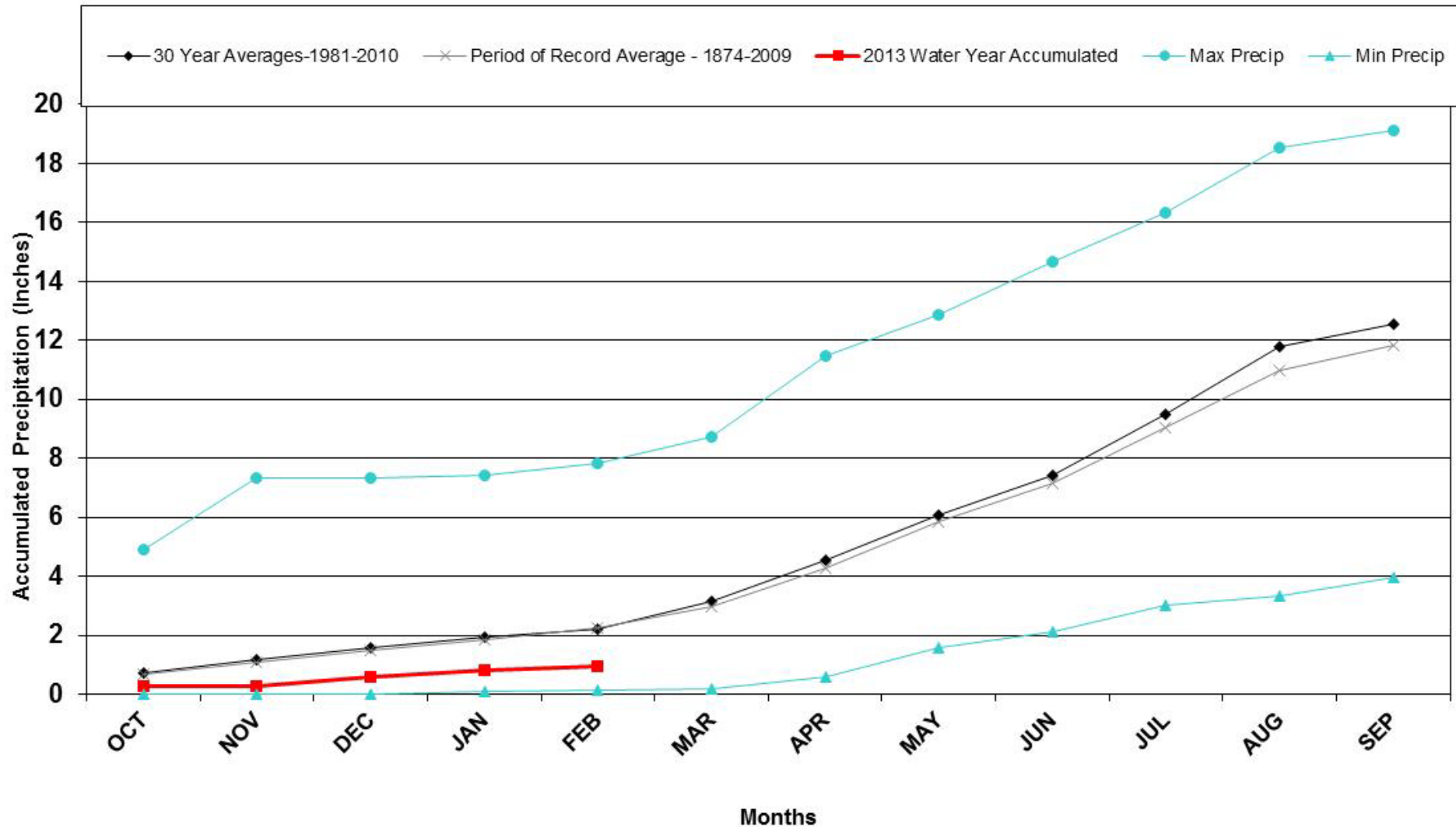
Division 4 – Alamosa

Alamosa WSO 24 Month Precipitation Accumulation



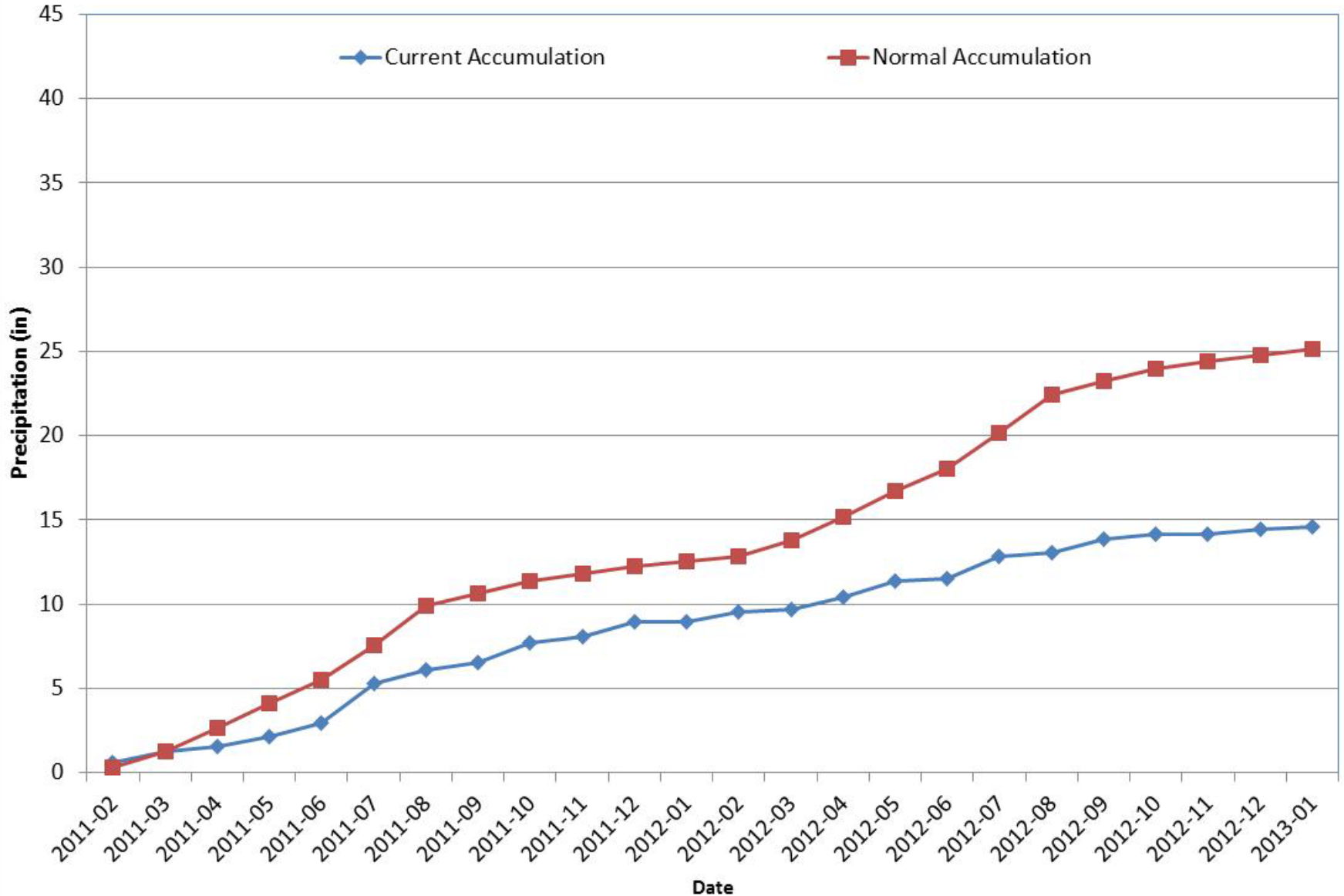
Division 5 – Pueblo

Pueblo WSO 2013 Water Year



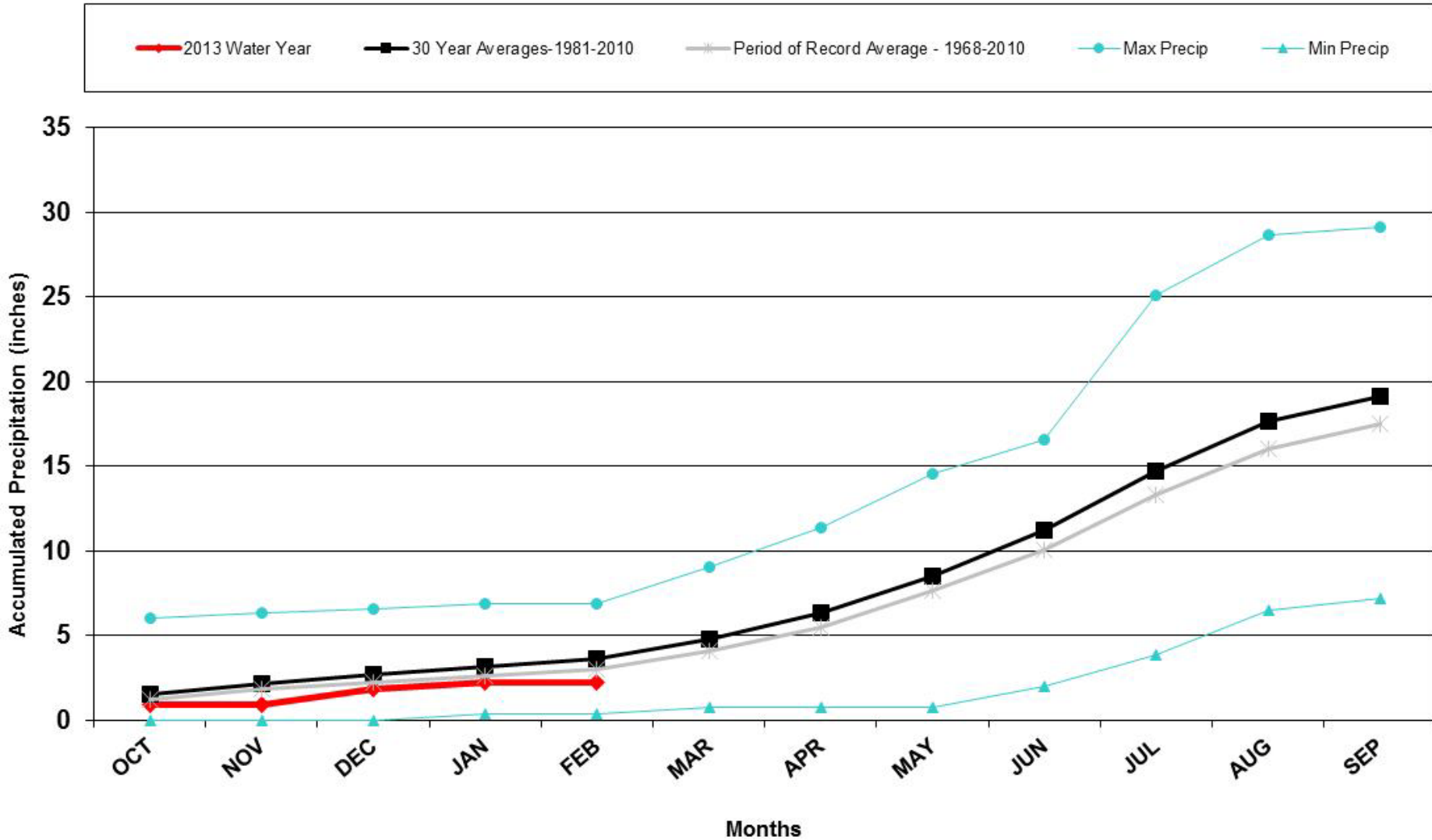
Division 5 – Pueblo

Pueblo Memorial AP 24 Month Precipitation Accumulation



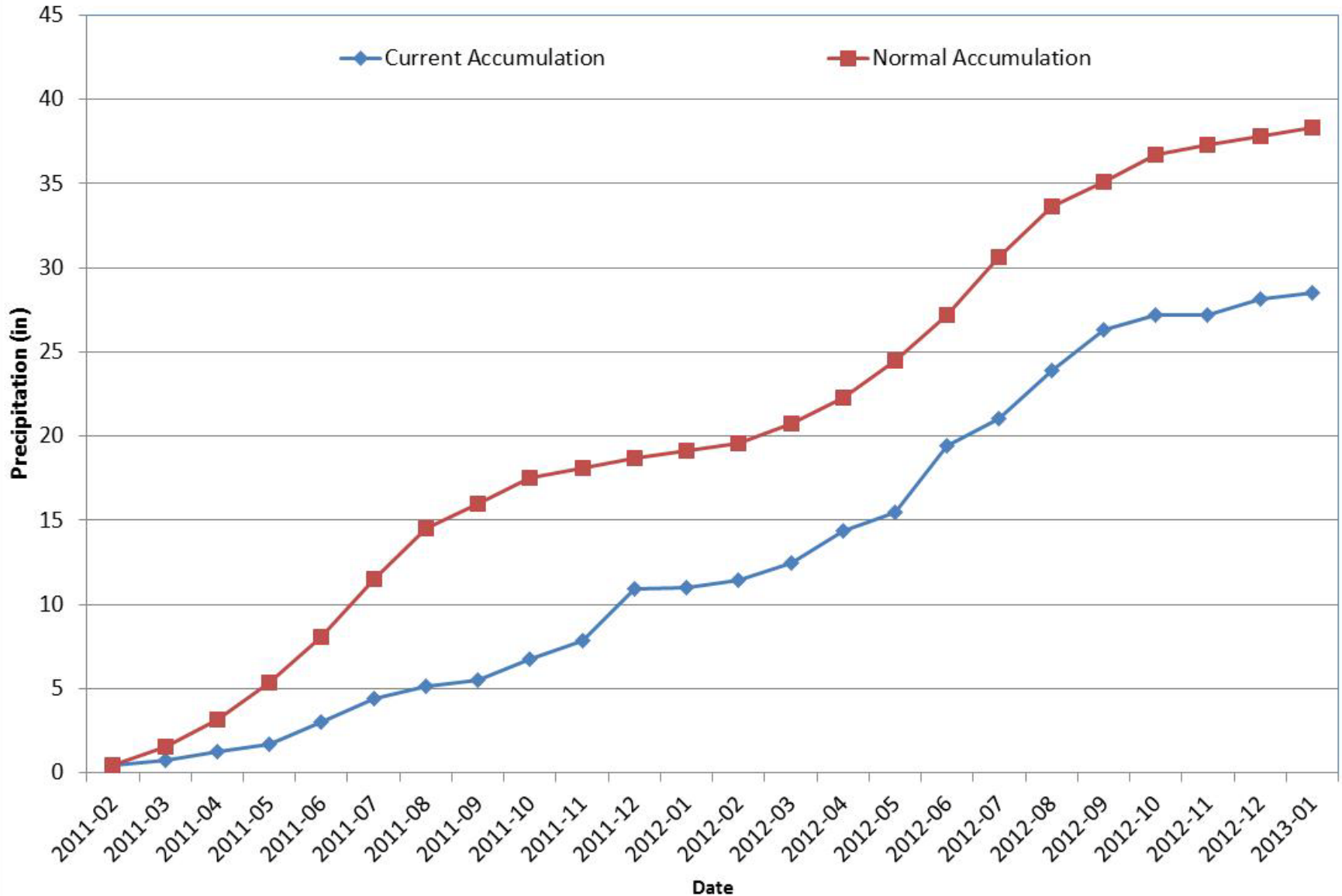
Division 6 - Walsh

Walsh 2013 Water Year



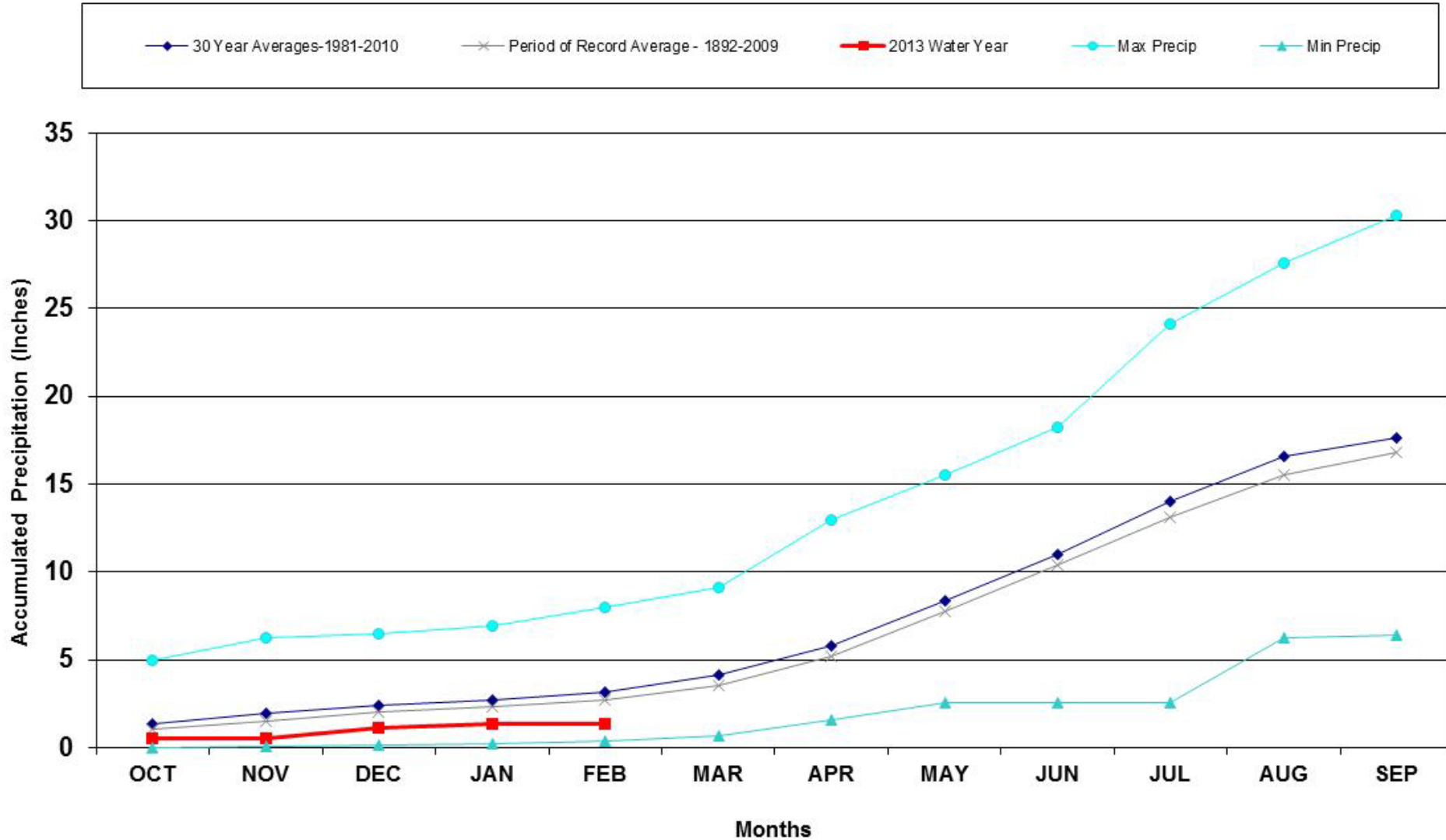
Division 6 - Walsh

Walsh 1W 24 Month Precipitation Accumulation



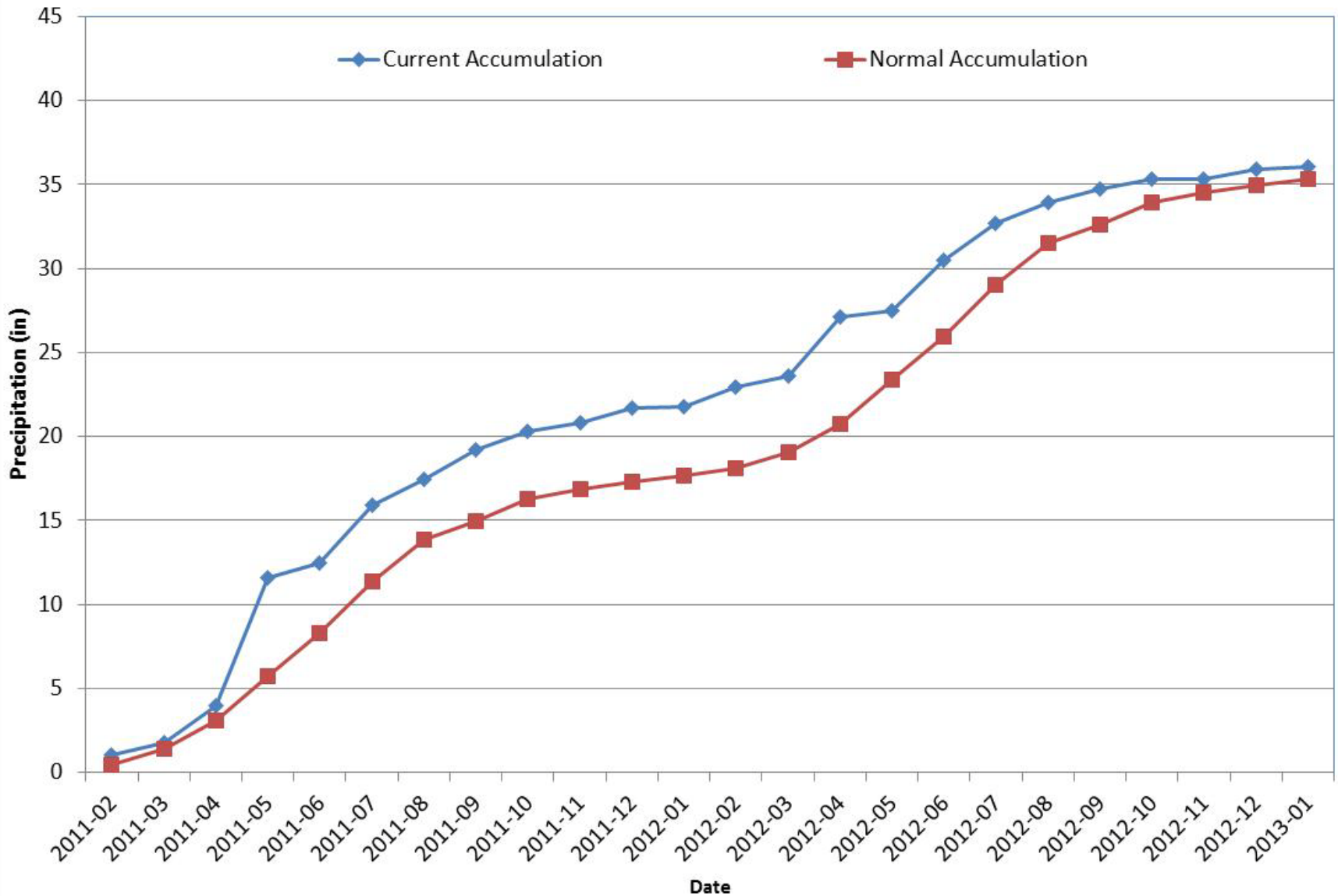
Division 6 - Burlington

Burlington 2013 Water Year



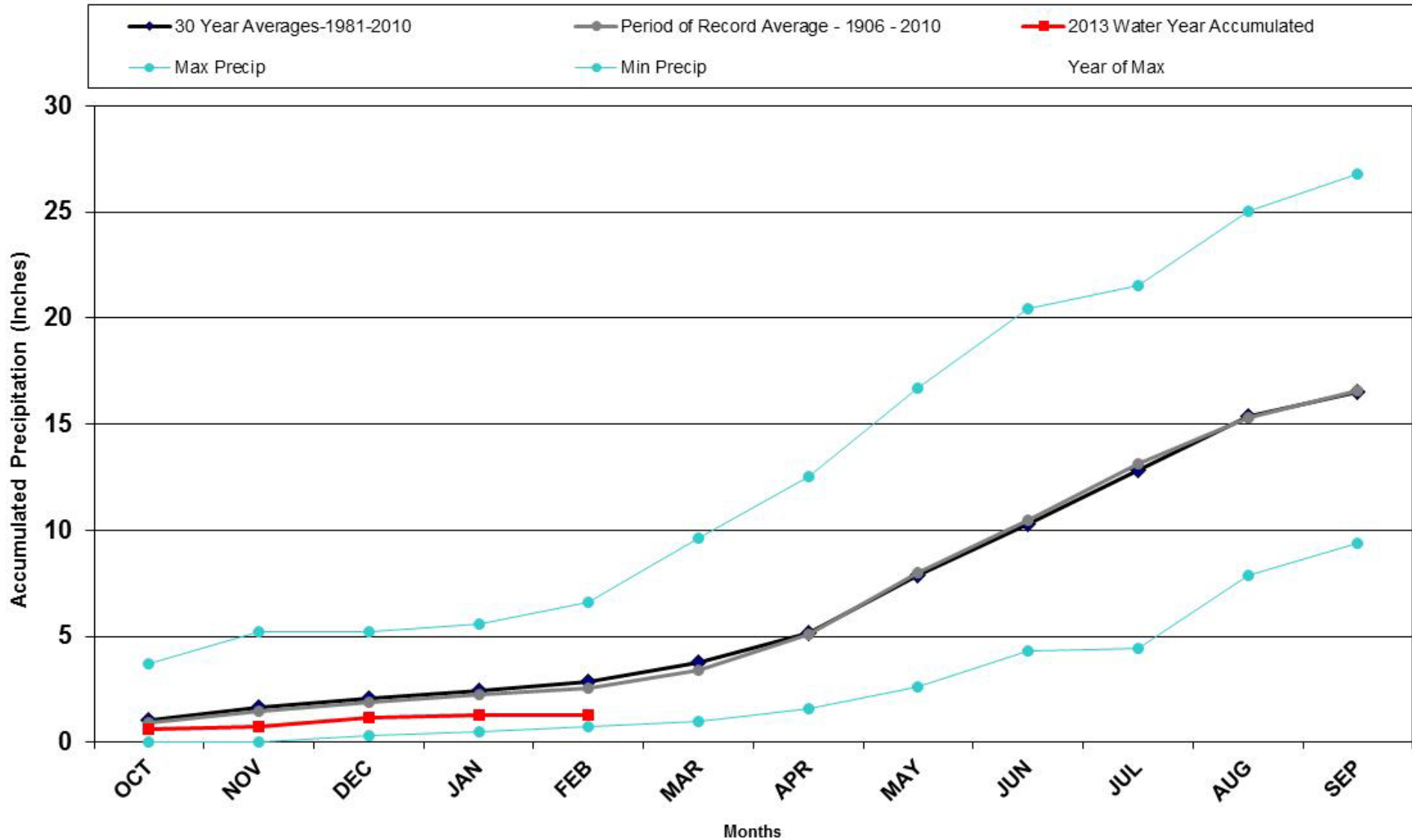
Division 6 - Burlington

Burlington, CO
24 Month Precipitation Accumulation



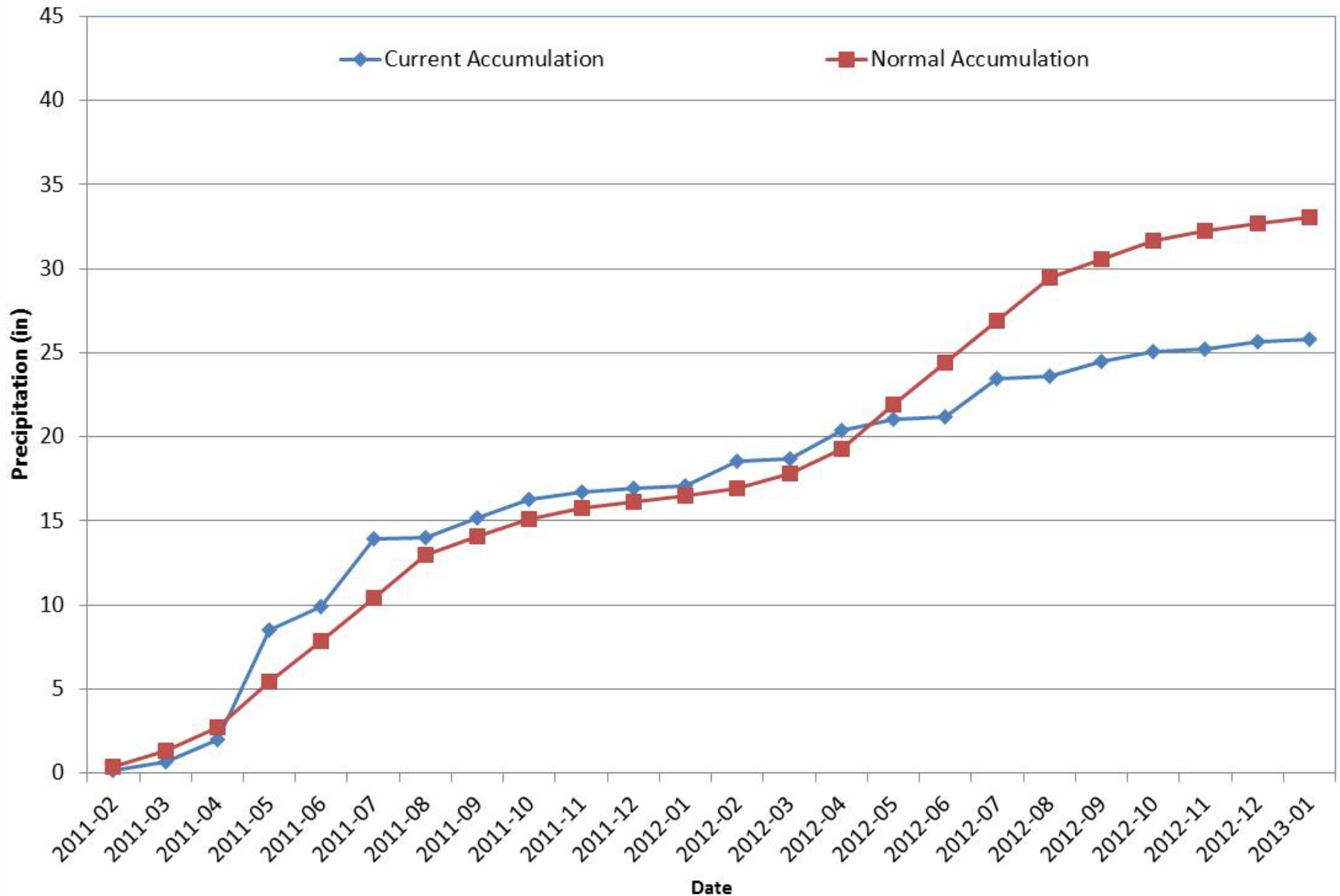
Division 7 – Akron

Akron 4E 2013 Water Year



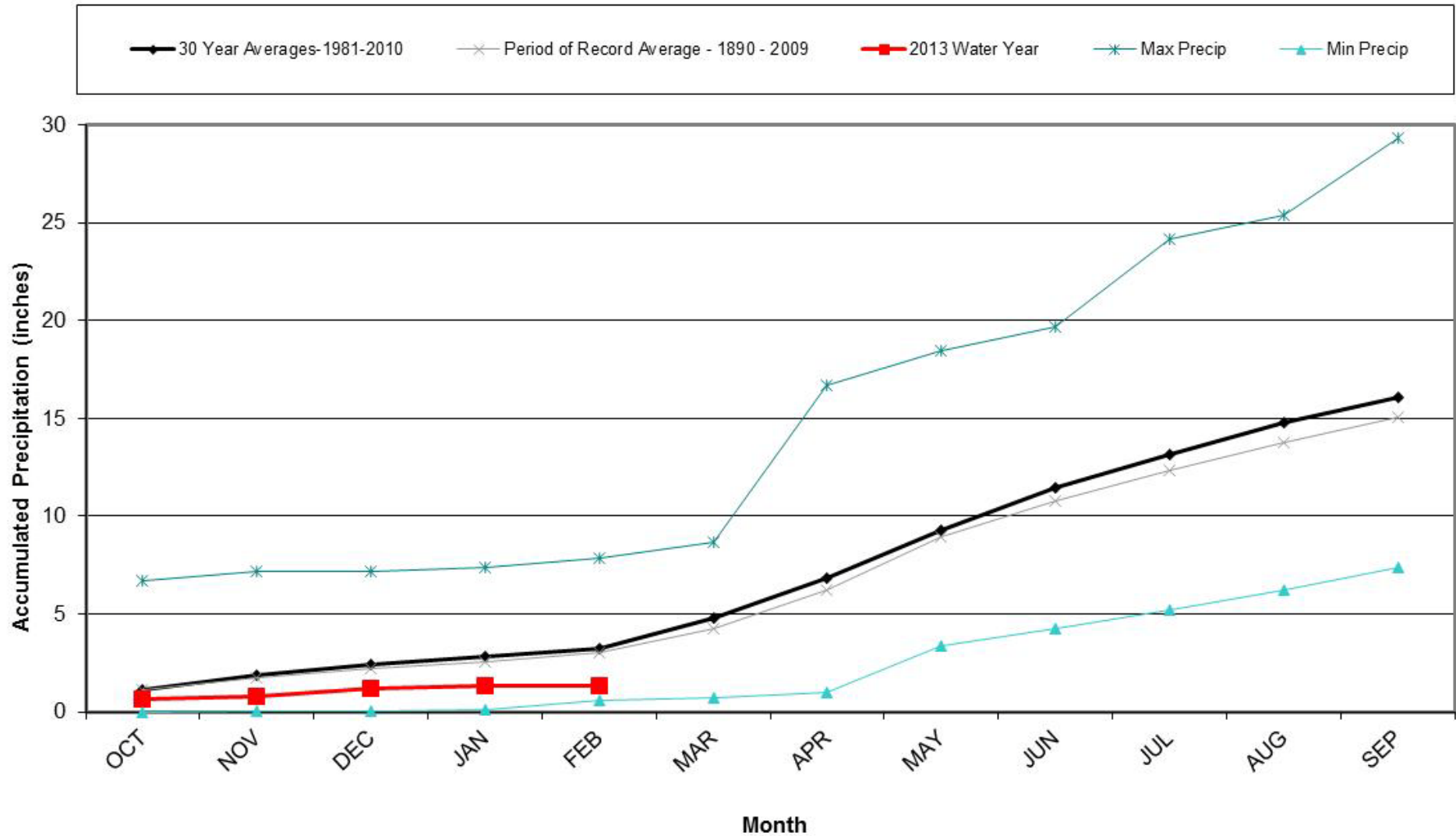
Division 7 – Akron

Akron 4E 24 Month Precipitation Accumulation



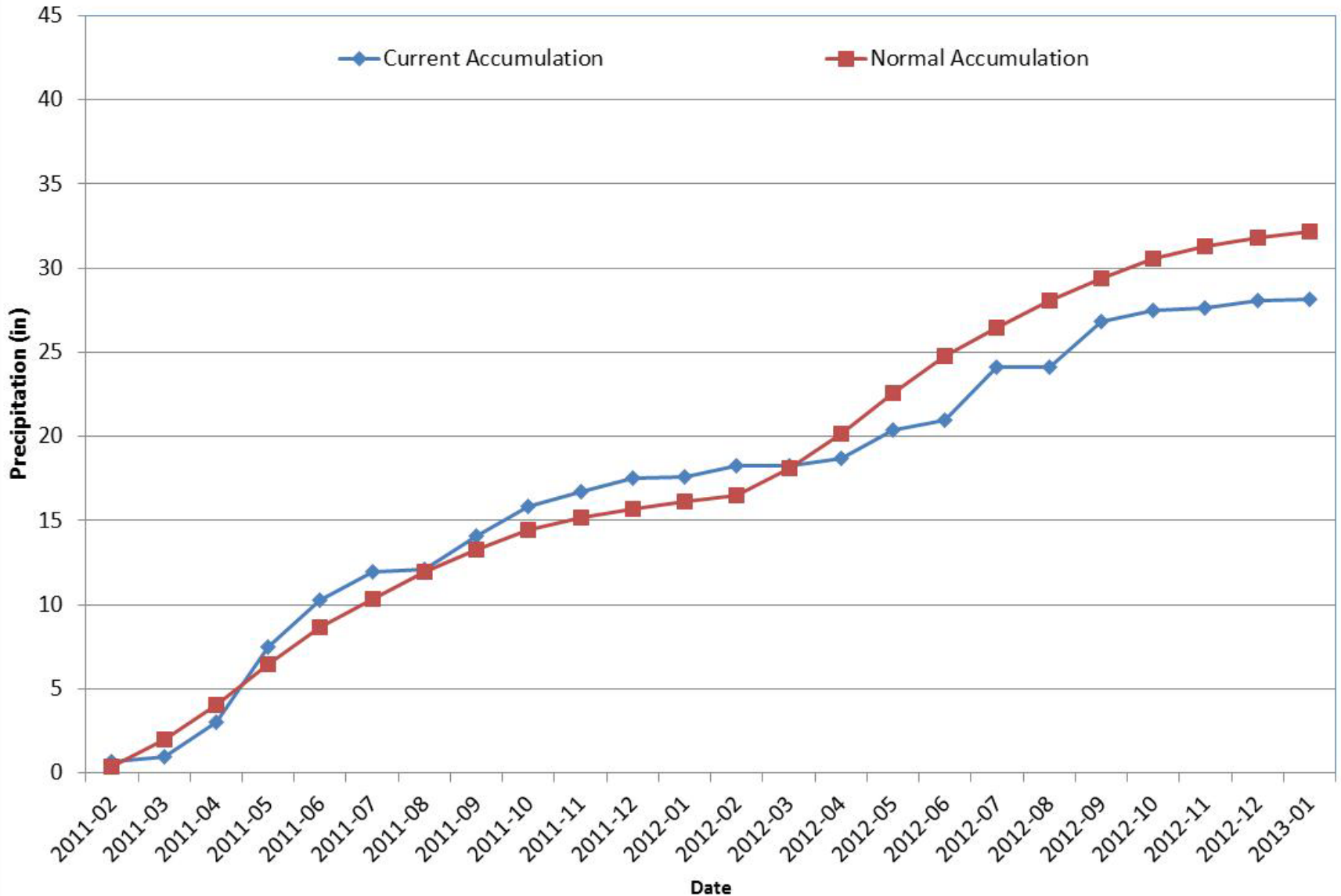
Division 8 – Fort Collins

Fort Collins 2013 Water Year



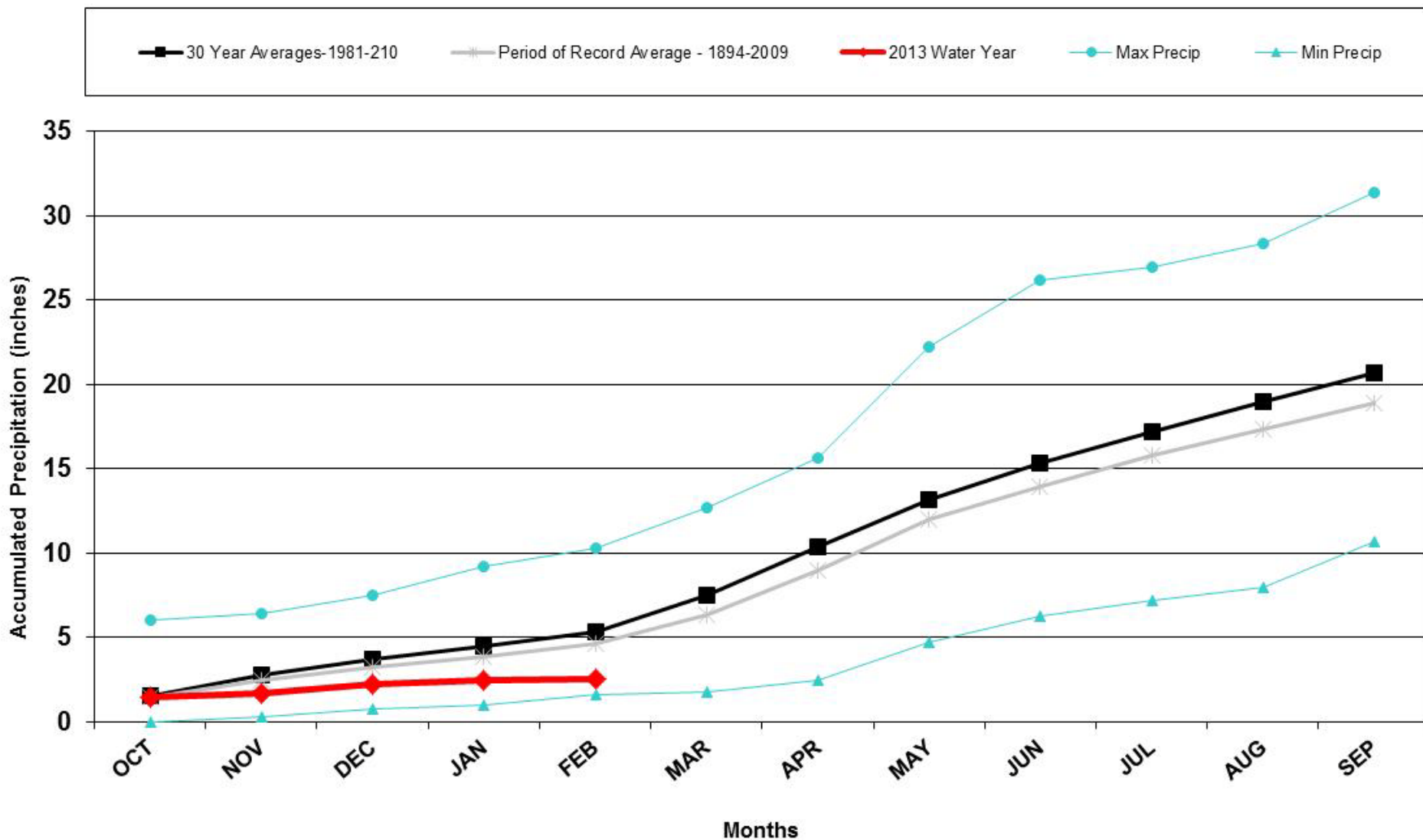
Division 8 – Fort Collins

Fort Collins 24 Month Precipitation Accumulation



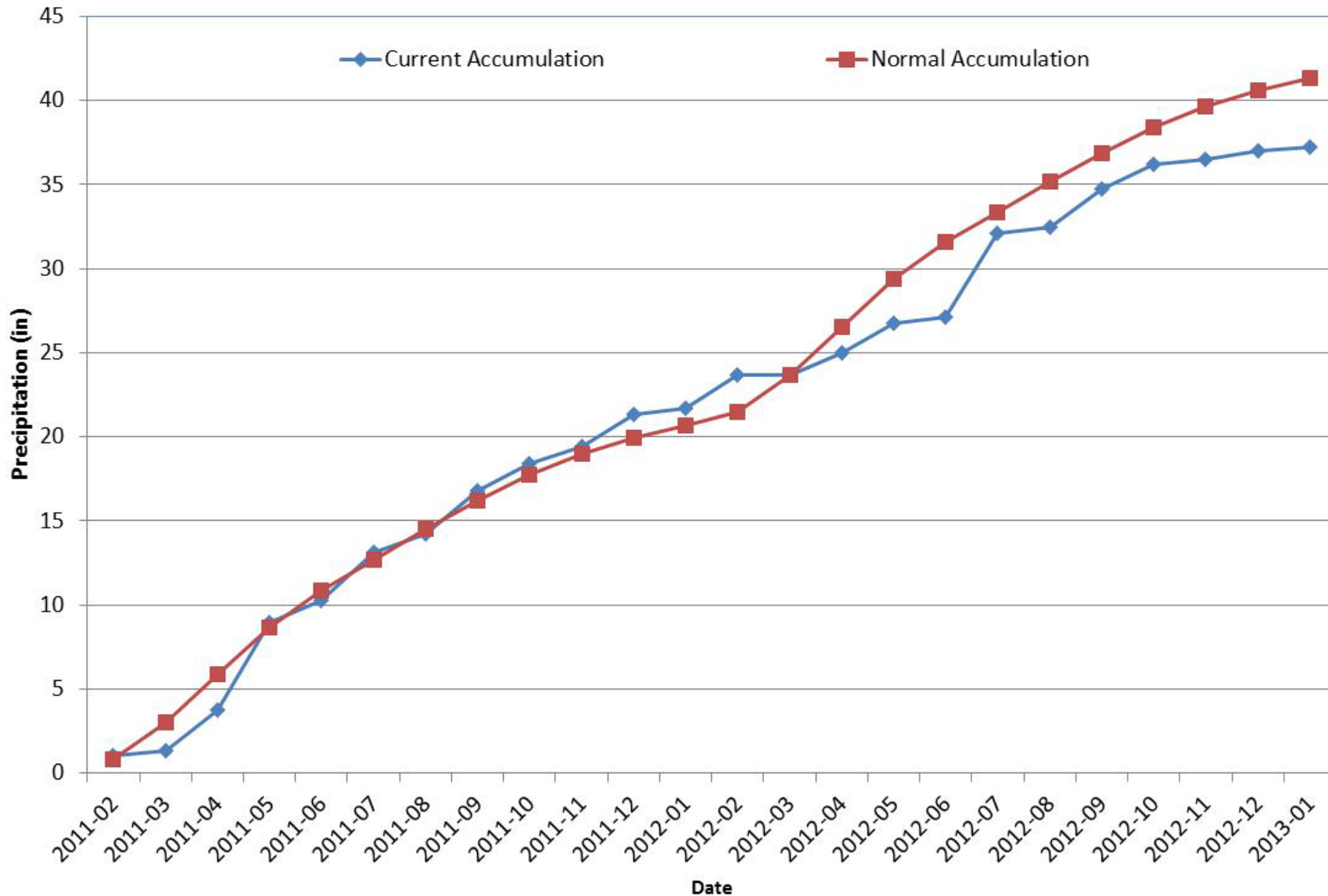
Division 8 - Boulder

Boulder 2013 Water Year



Division 8 - Boulder

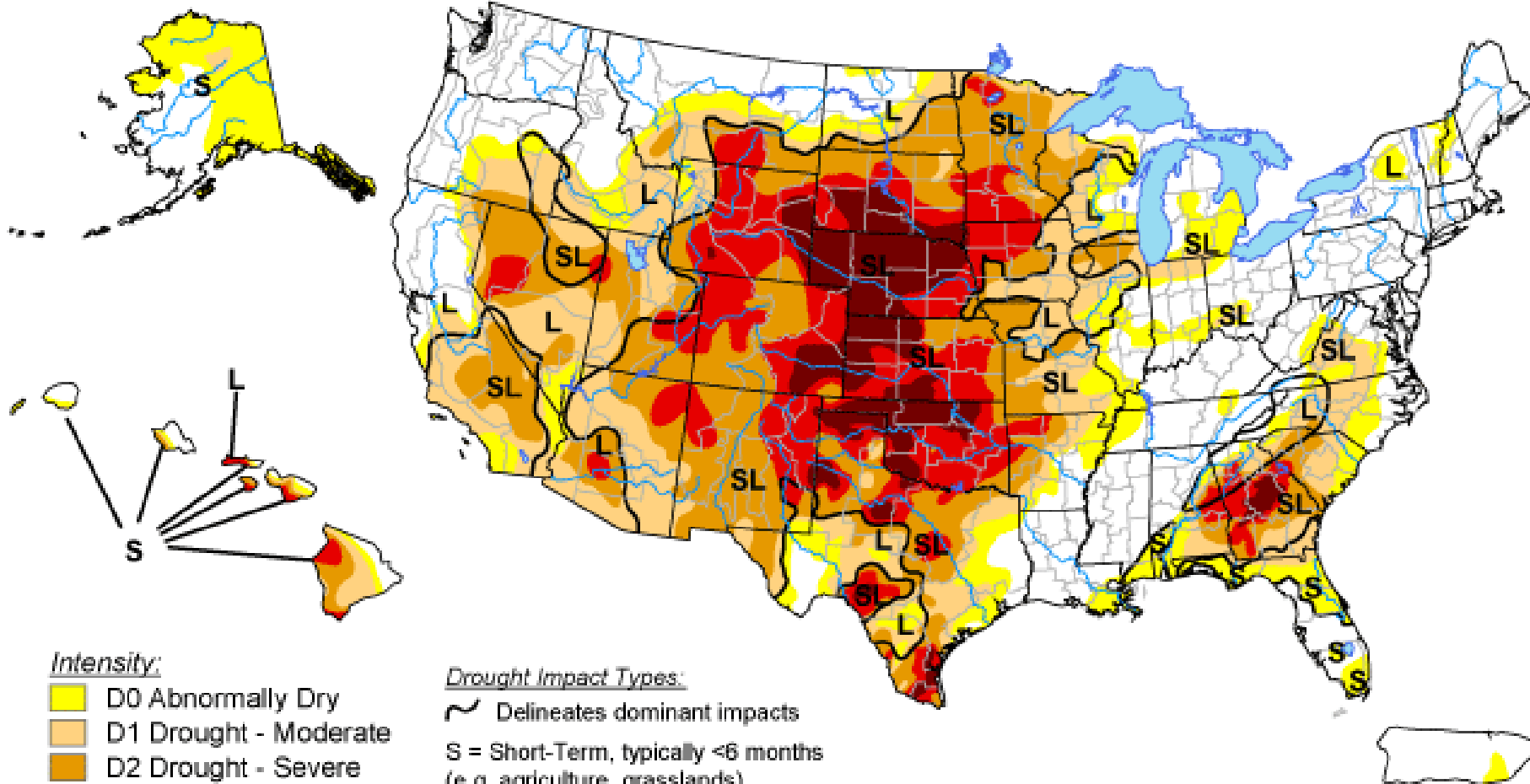
Boulder 24 Month Precipitation Accumulation







U.S. Drought Monitor

January 15, 2013


Valid 7 a.m. EST



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.



Released Thursday, January 17, 2013

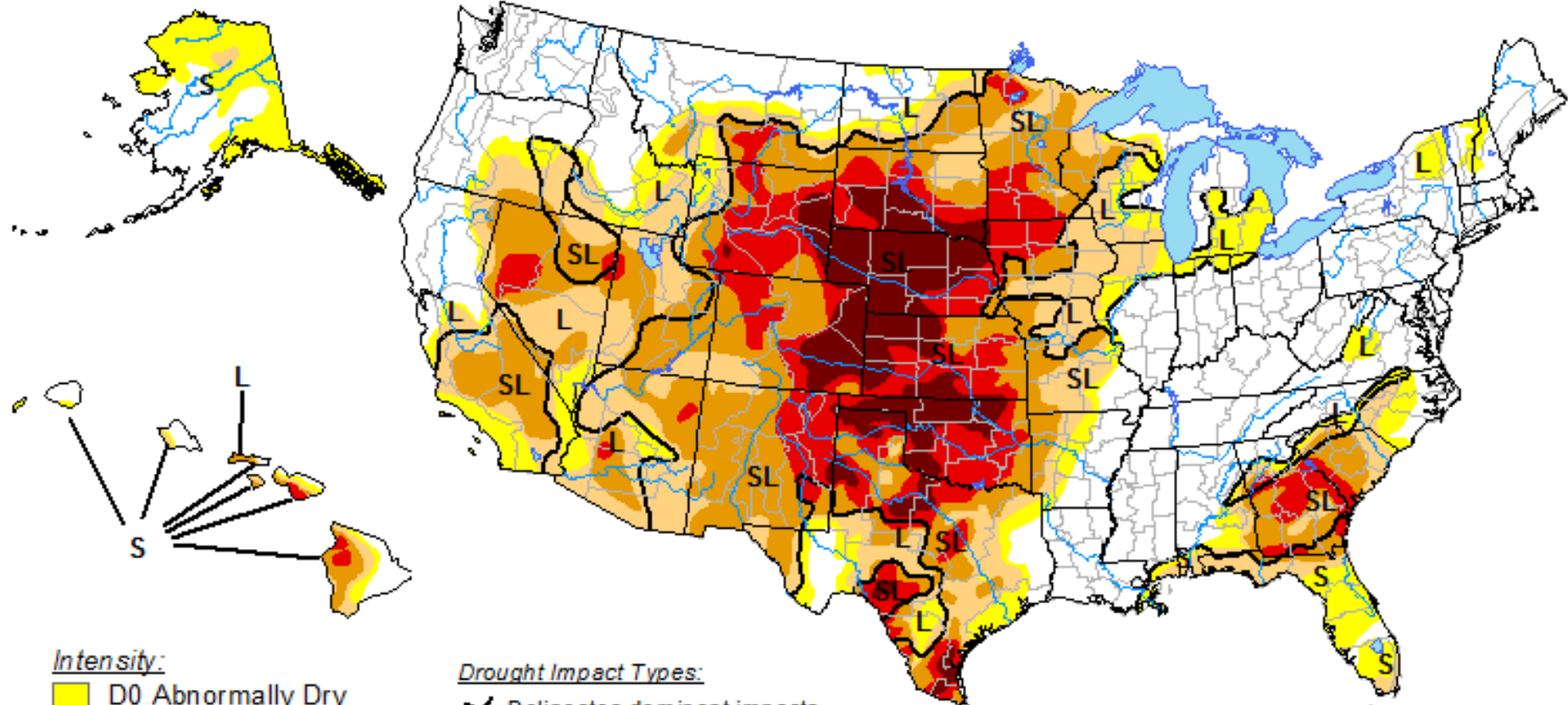
Author: David Simeral, Western Regional Climate Center

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






U.S. Drought Monitor

February 12, 2013


Valid 7 a.m. EDT



Intensity:

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

Drought Impact Types:

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



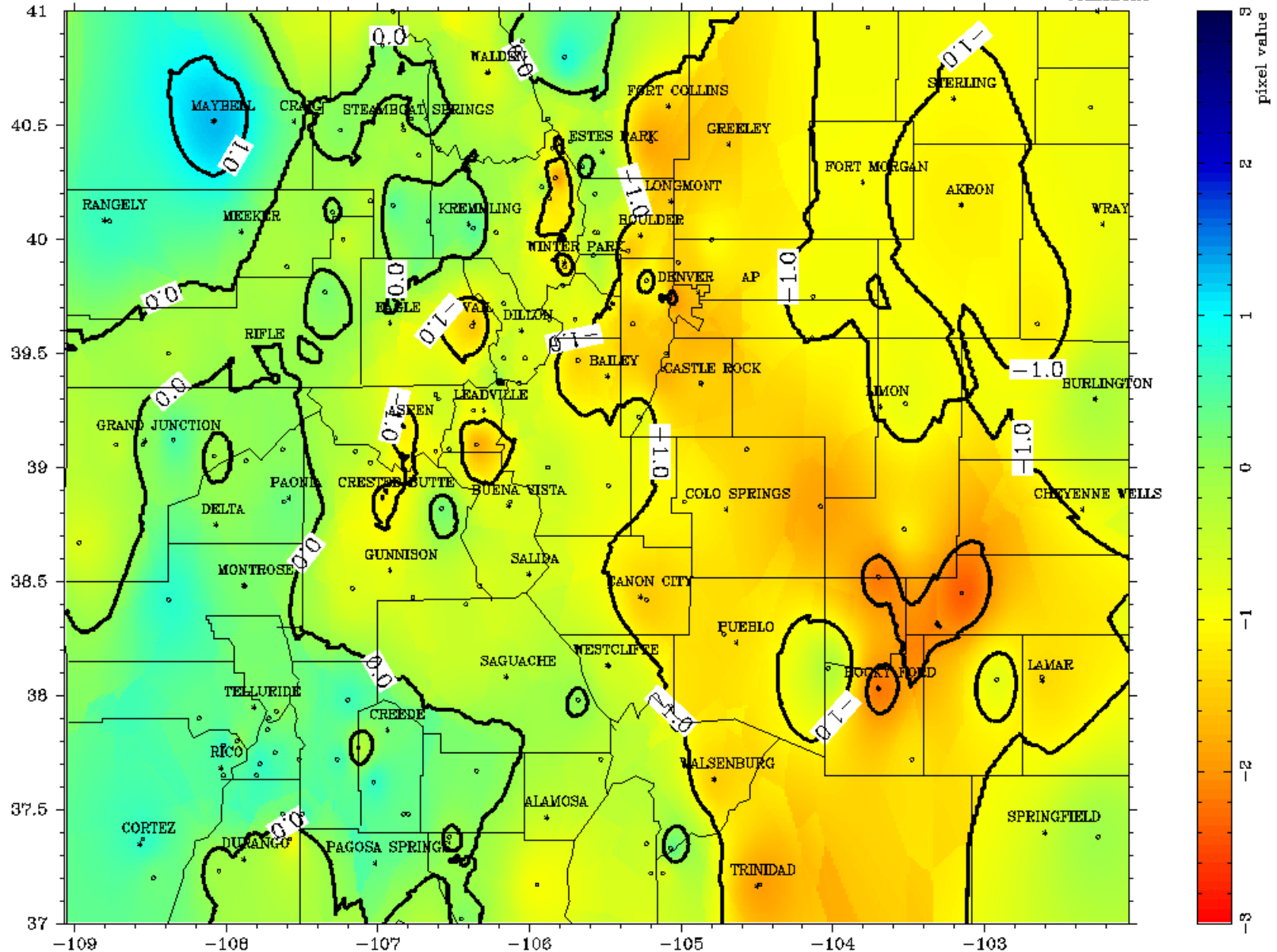
Released Thursday, February 14, 2013

Author: Michael Brewer/Liz Love-Brotak NOAA/NESDIS/NCDC

Colorado

1/2013 3 mon. SPI

JULESBURG



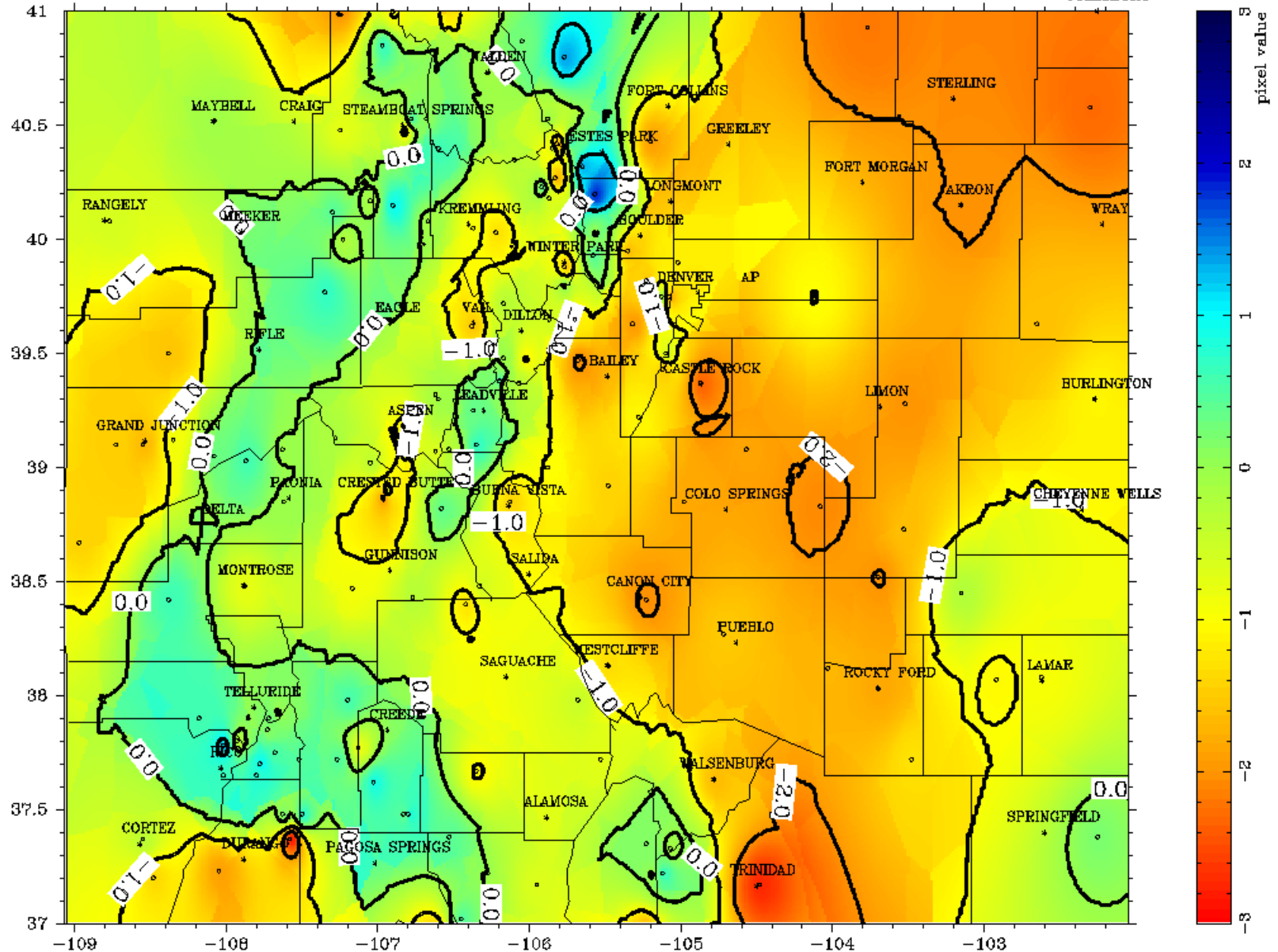
100 % < 2.0	32 % < -1.0
99 % < 1.0	1 % < -2.0
76 % < 0.0	0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

Colorado

1/2013 6 mon. SPI

JULESBURG



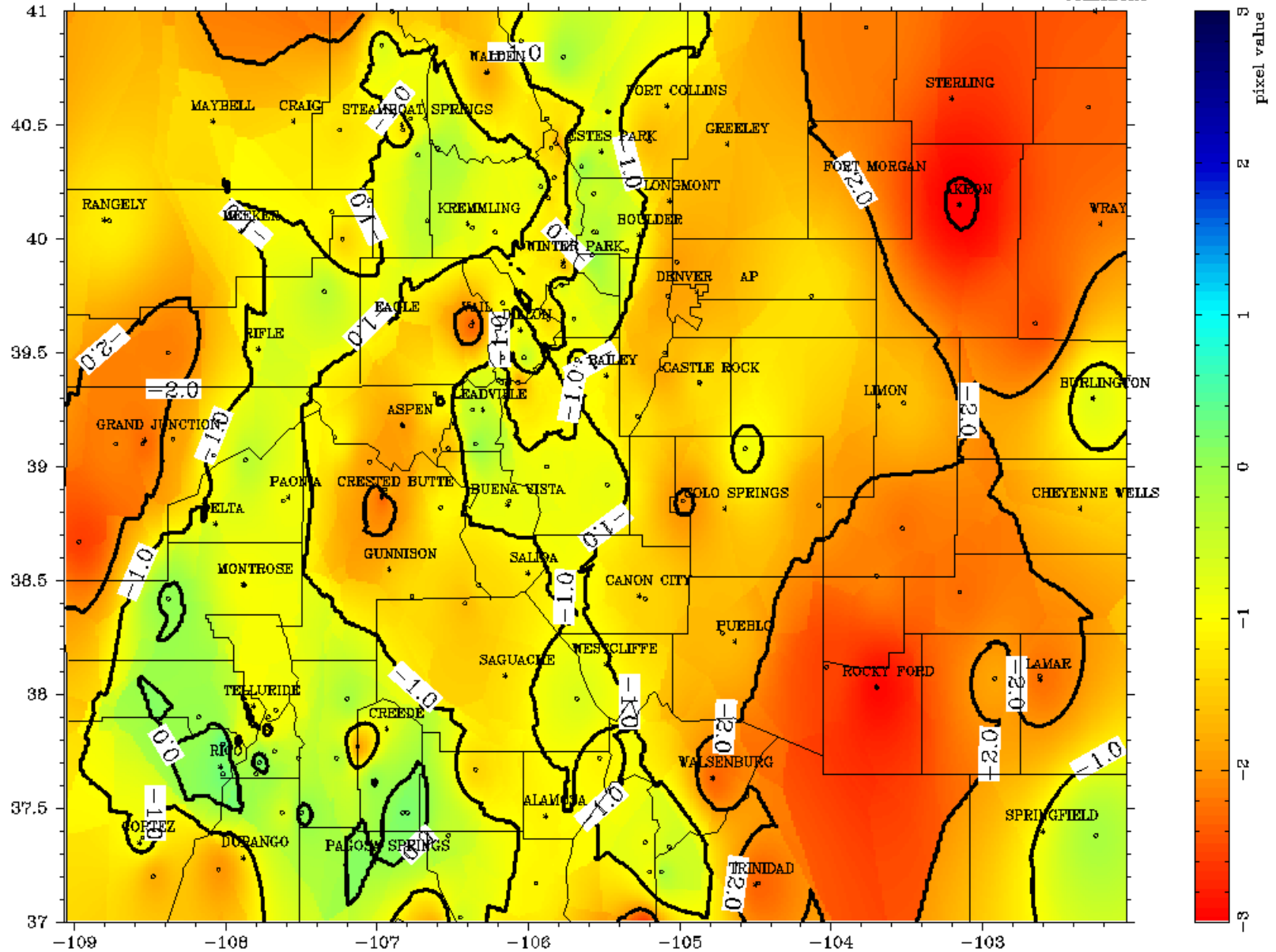
100 % < 2.0 48 % < -1.0
100 % < 1.0 7 % < -2.0
84 % < 0.0 0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

Colorado

1/2013 12 mon. SPI

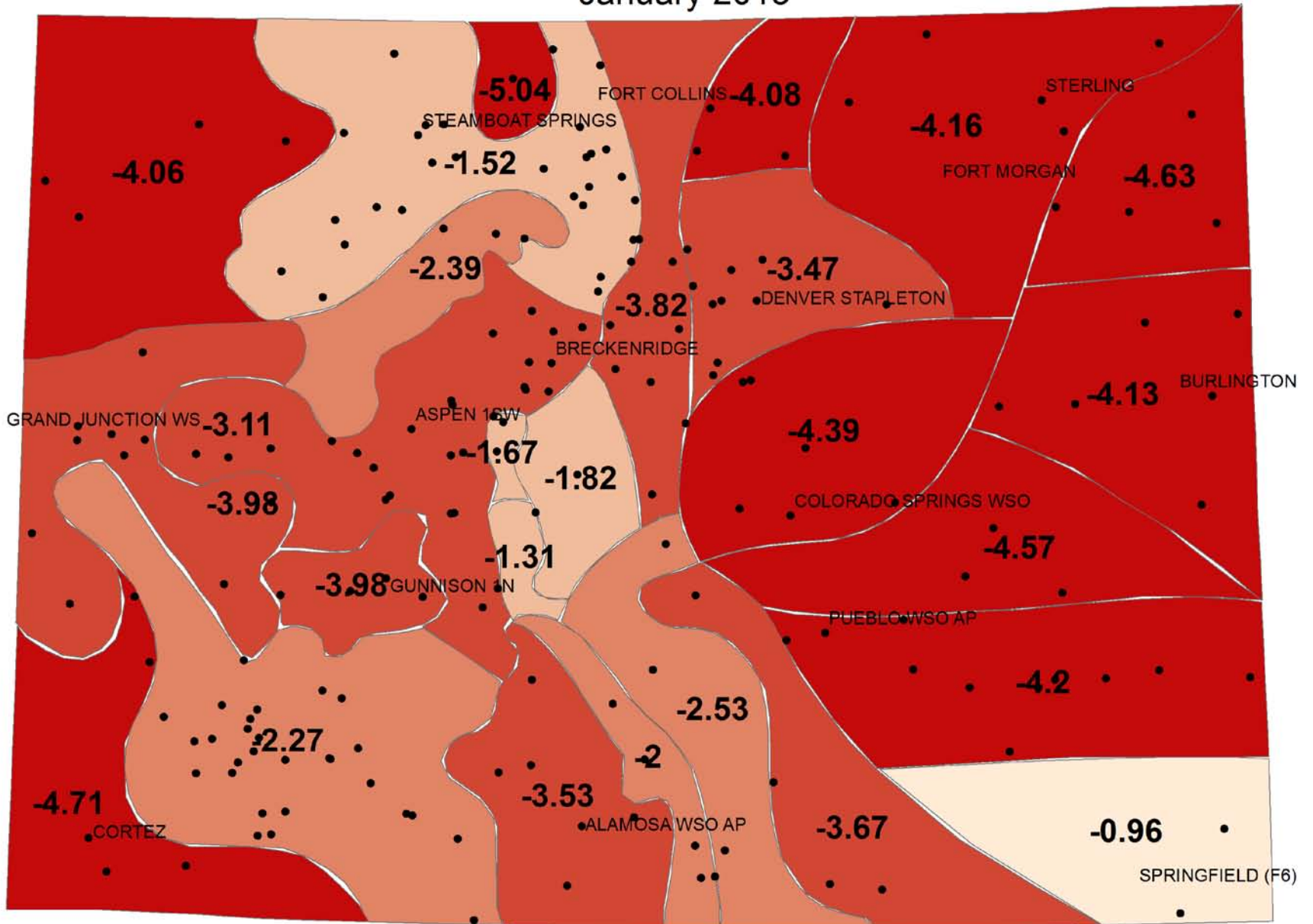
JULESBURG



100 % < 2.0 73 % < -1.0
100 % < 1.0 24 % < -2.0
99 % < 0.0 0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

Modified Palmer Drought Severity Index for Colorado January 2013



Colorado Climate Center

Data and Power Point Presentations available for downloading

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

