



Climate Update

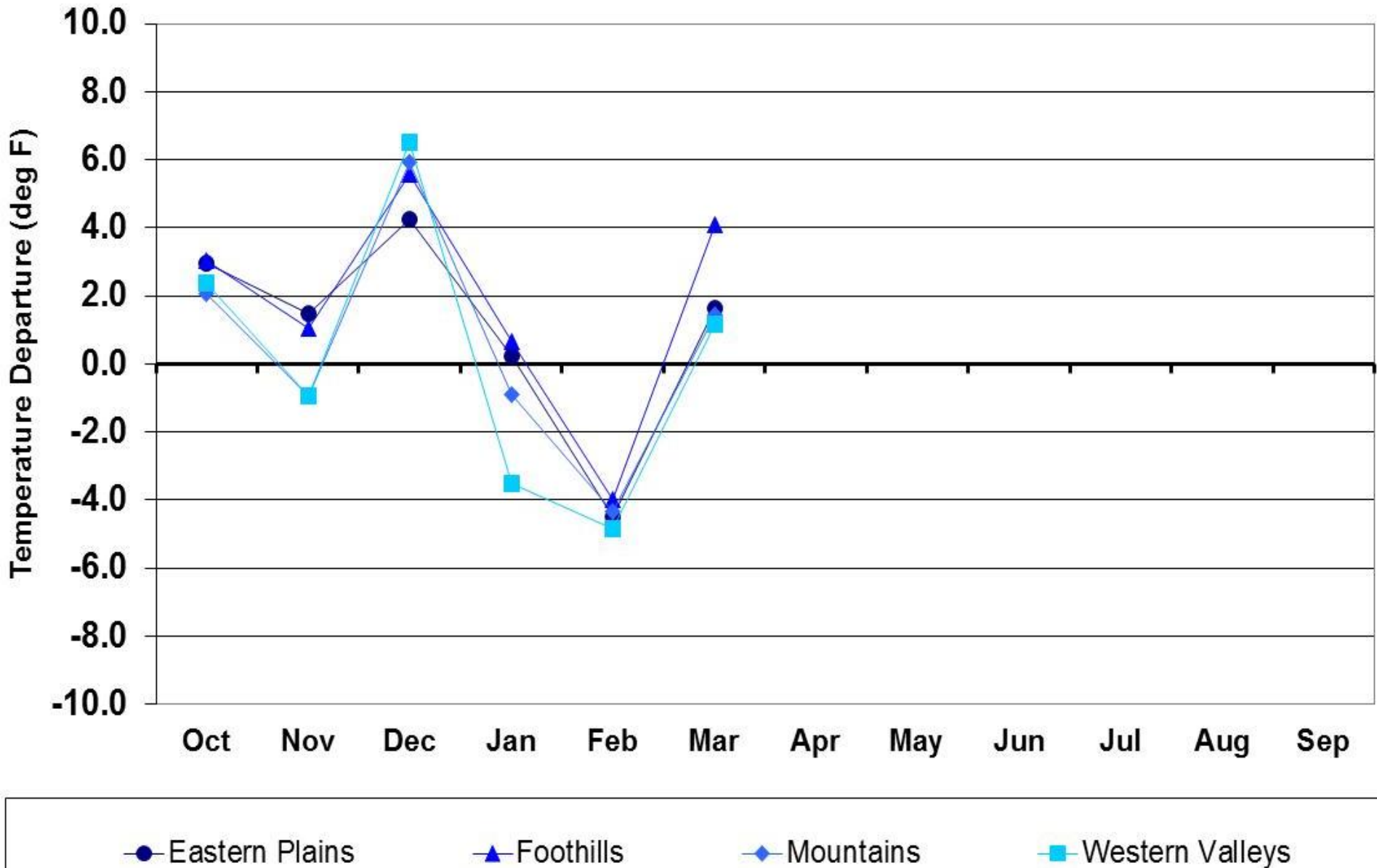
**Becky Smith
Colorado Climate Center**

**Atmospheric Science Department
Colorado State University**

Presented to
Water Availability Task Force
April 14th, 2011
Denver, CO

Prepared by Wendy Ryan

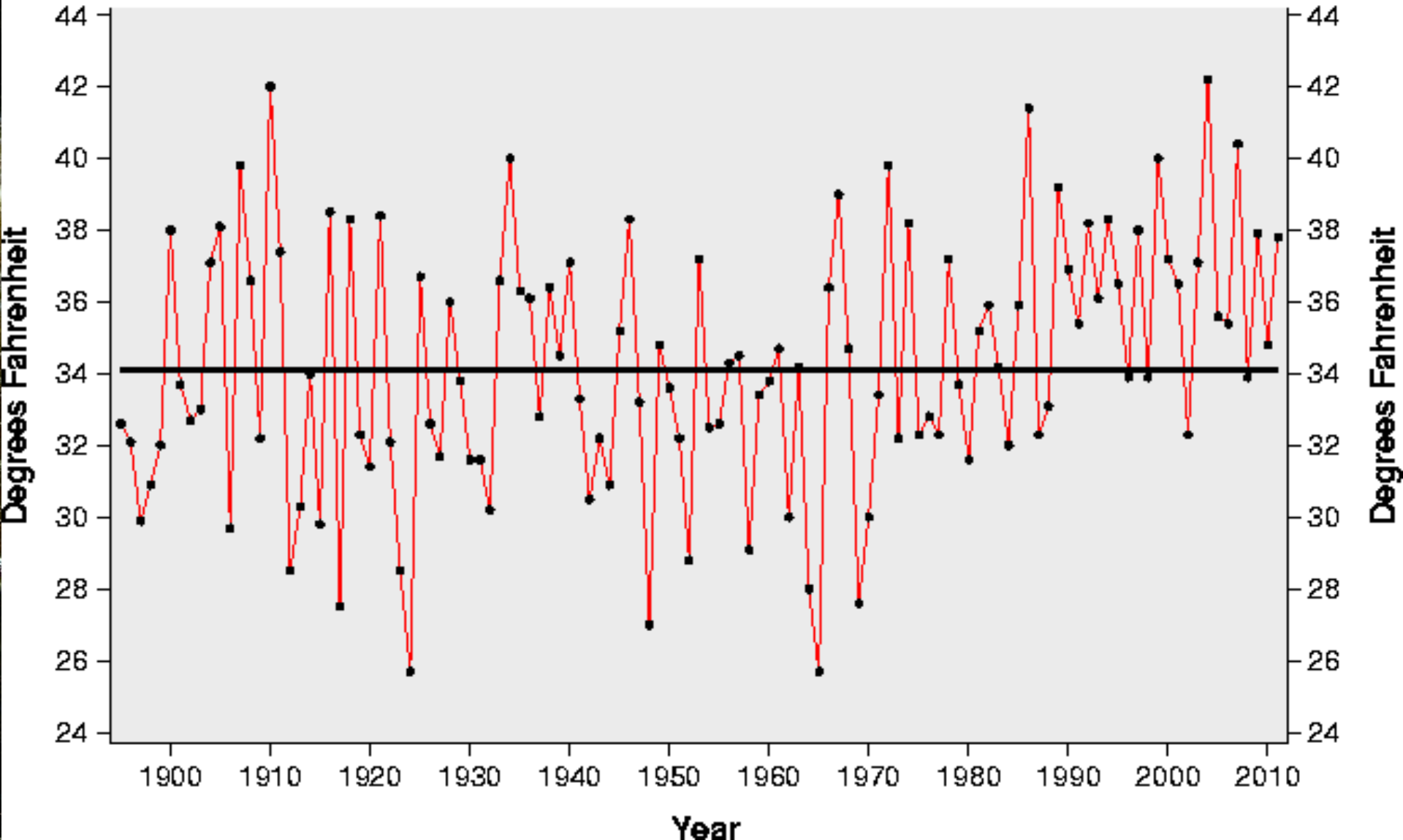
Water Year 2011 Temperature Departures



March Average Temperature History for Colorado (NCDC)

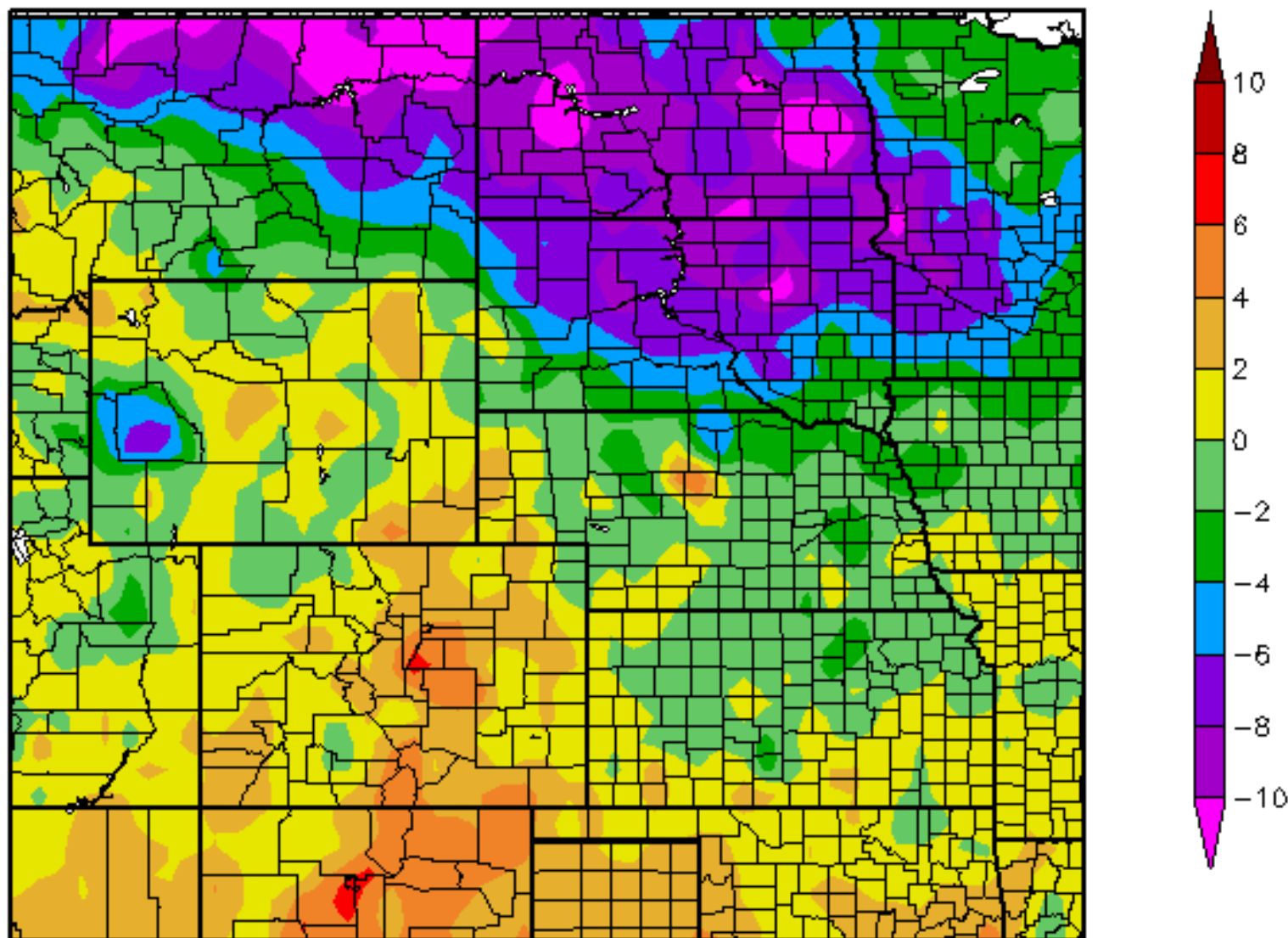
- Actual Temperature
- Average Temperature

37.8 Degrees ranks 96th coolest for the period (1895-2011)

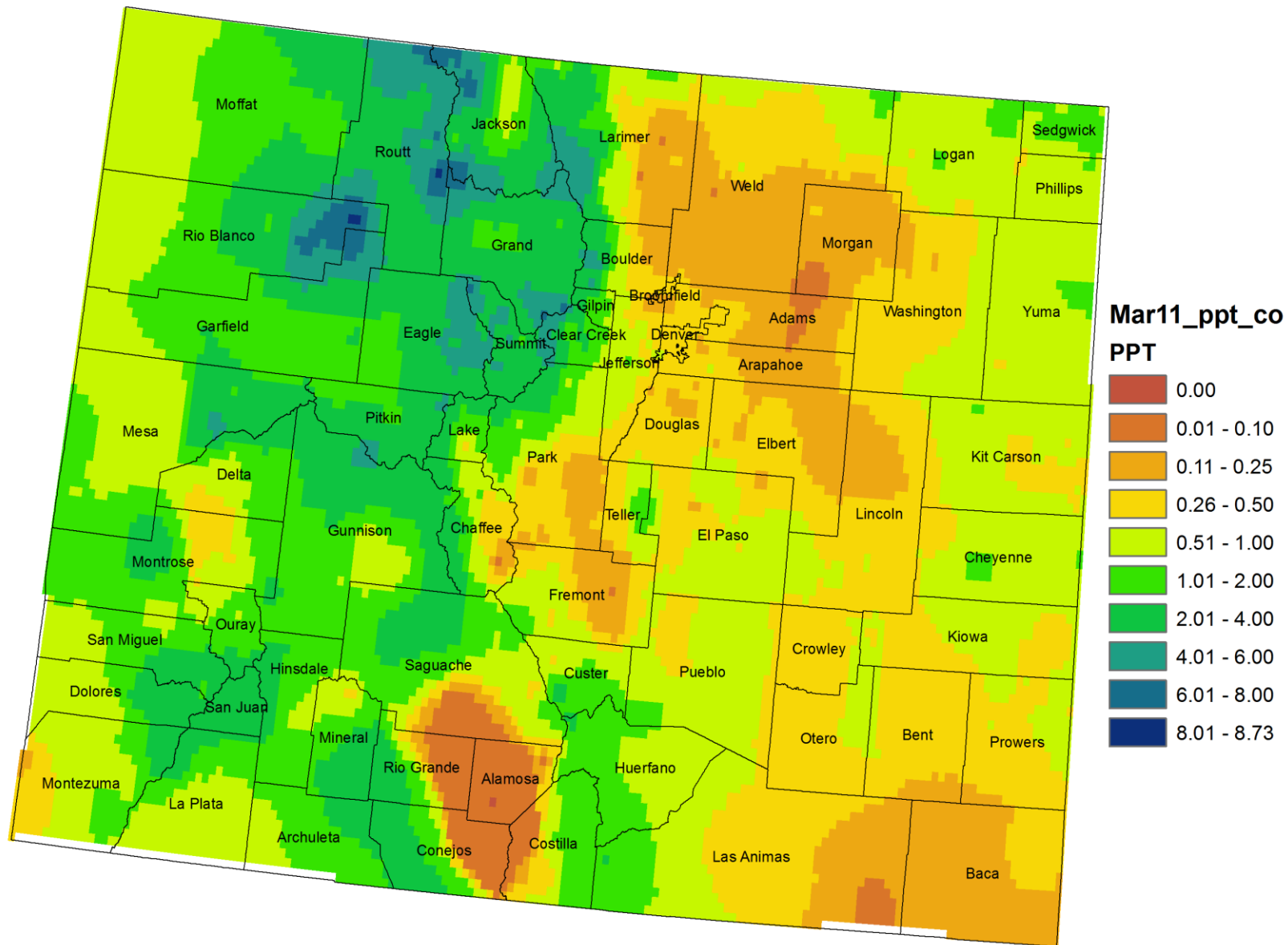


Departure from Normal Temperature (F)

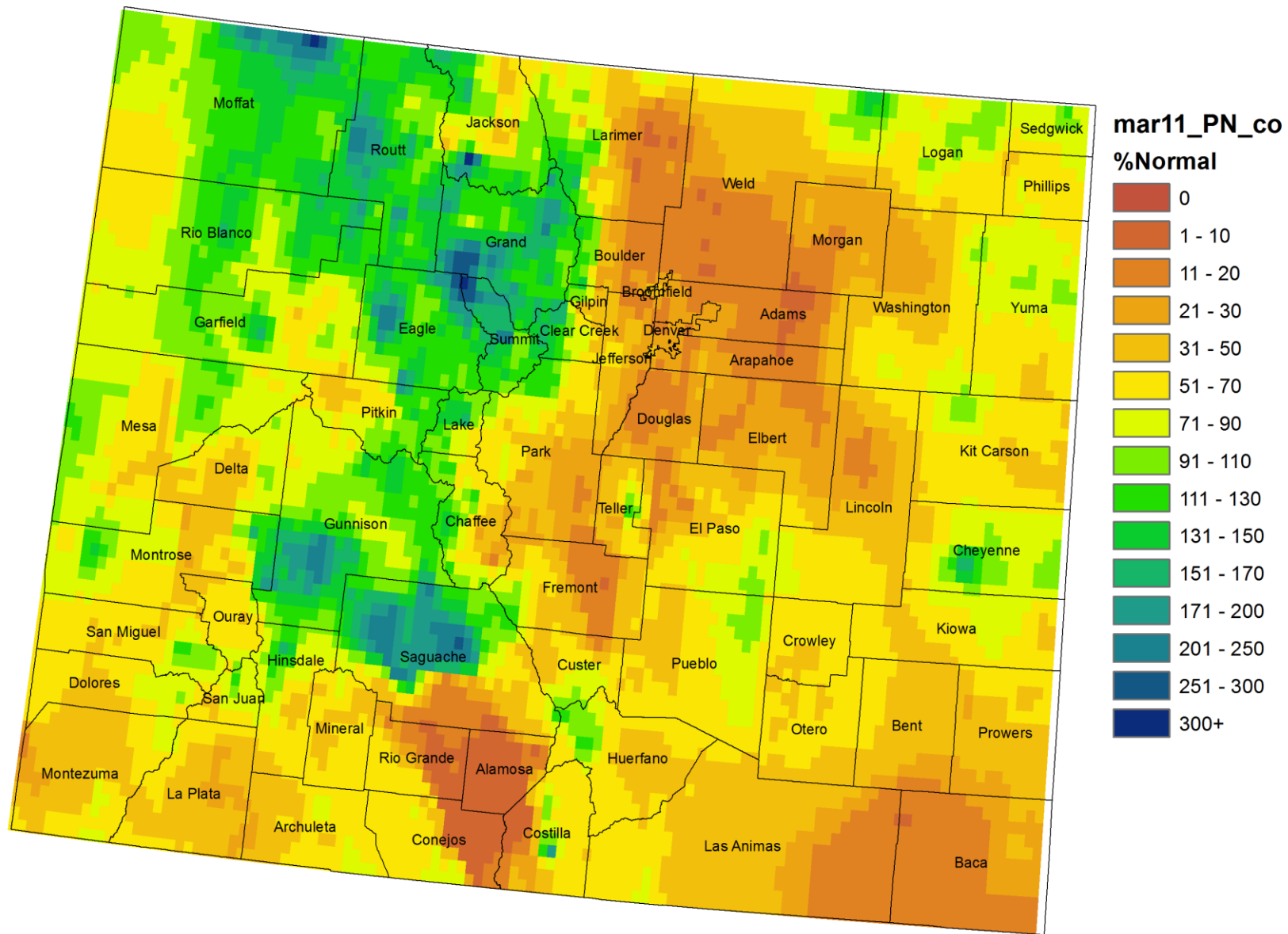
3/1/2011 - 3/31/2011



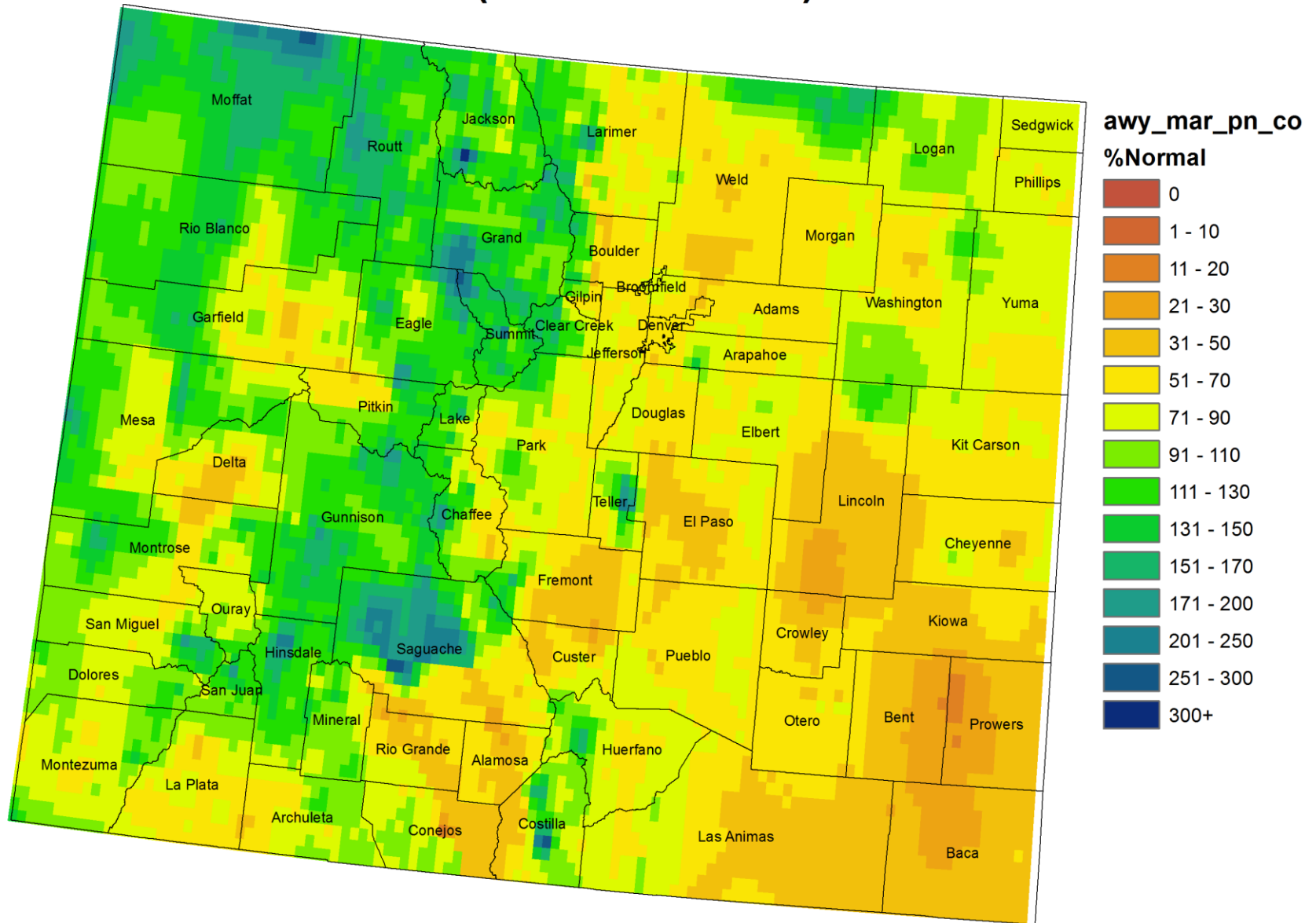
Colorado Precipitation (in) March 2011



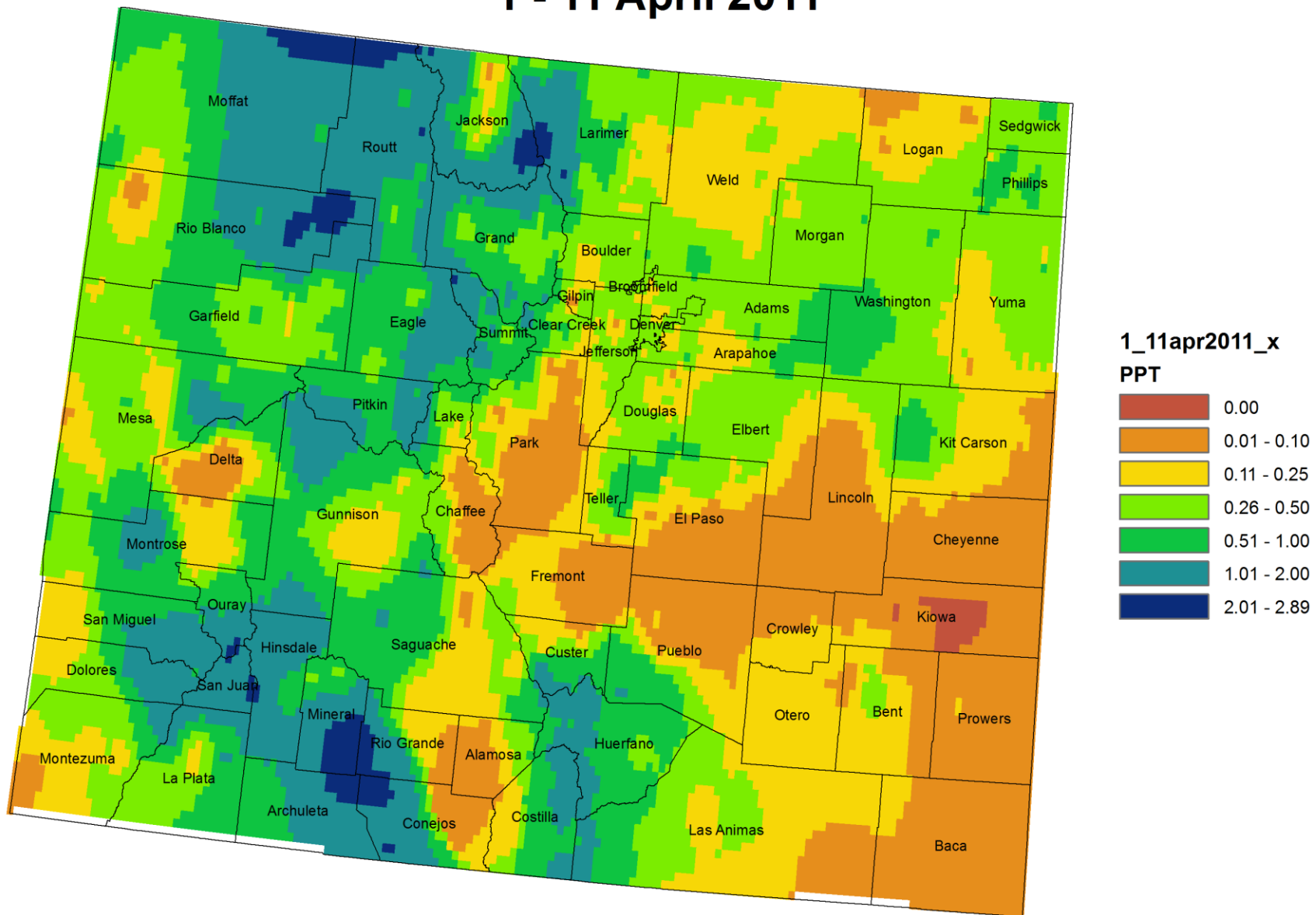
Colorado March Precipitation as Percentage of Normal



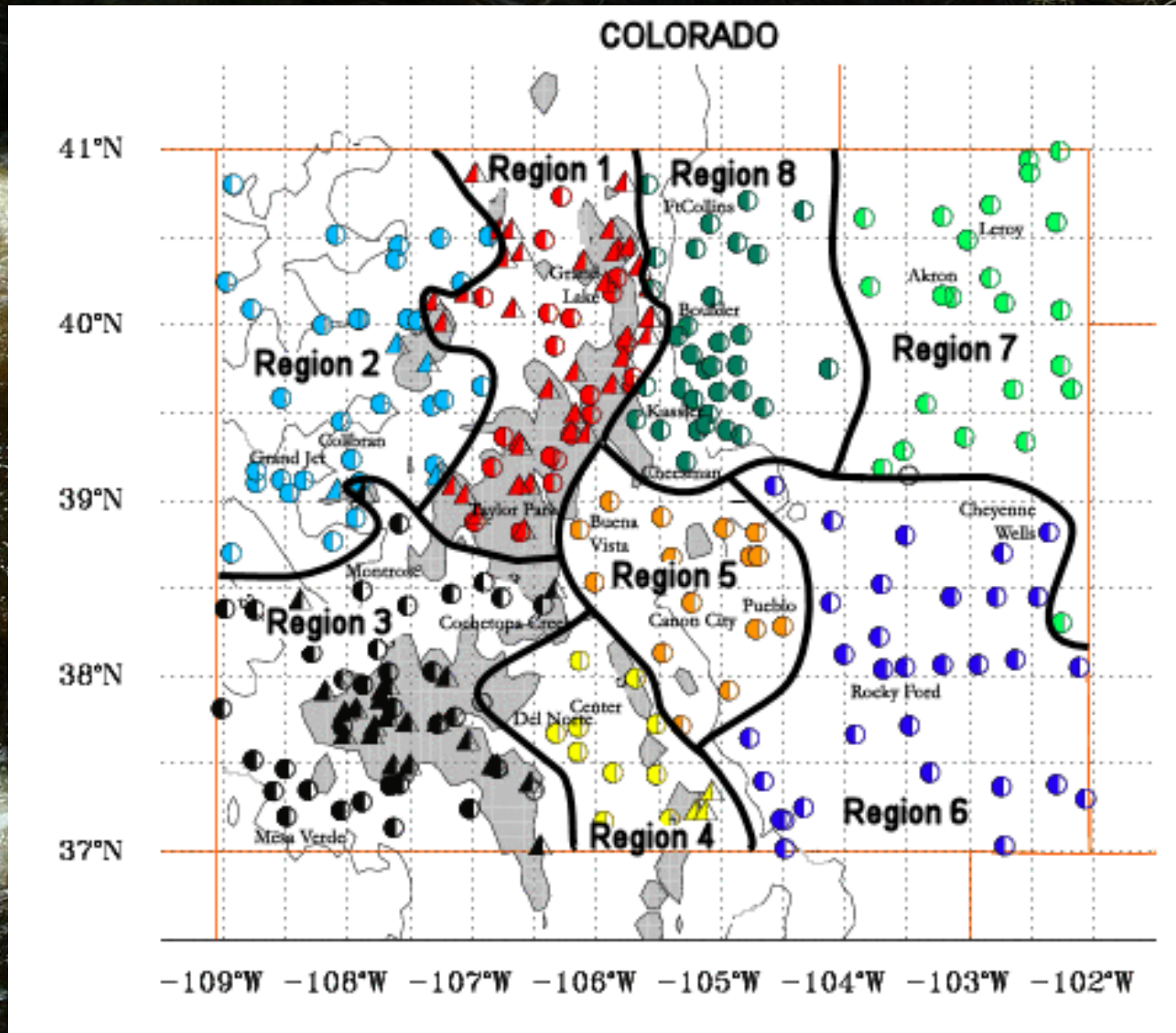
Colorado Water Year Precipitation as Percentage of Normal (Oct 10 - Mar 11)



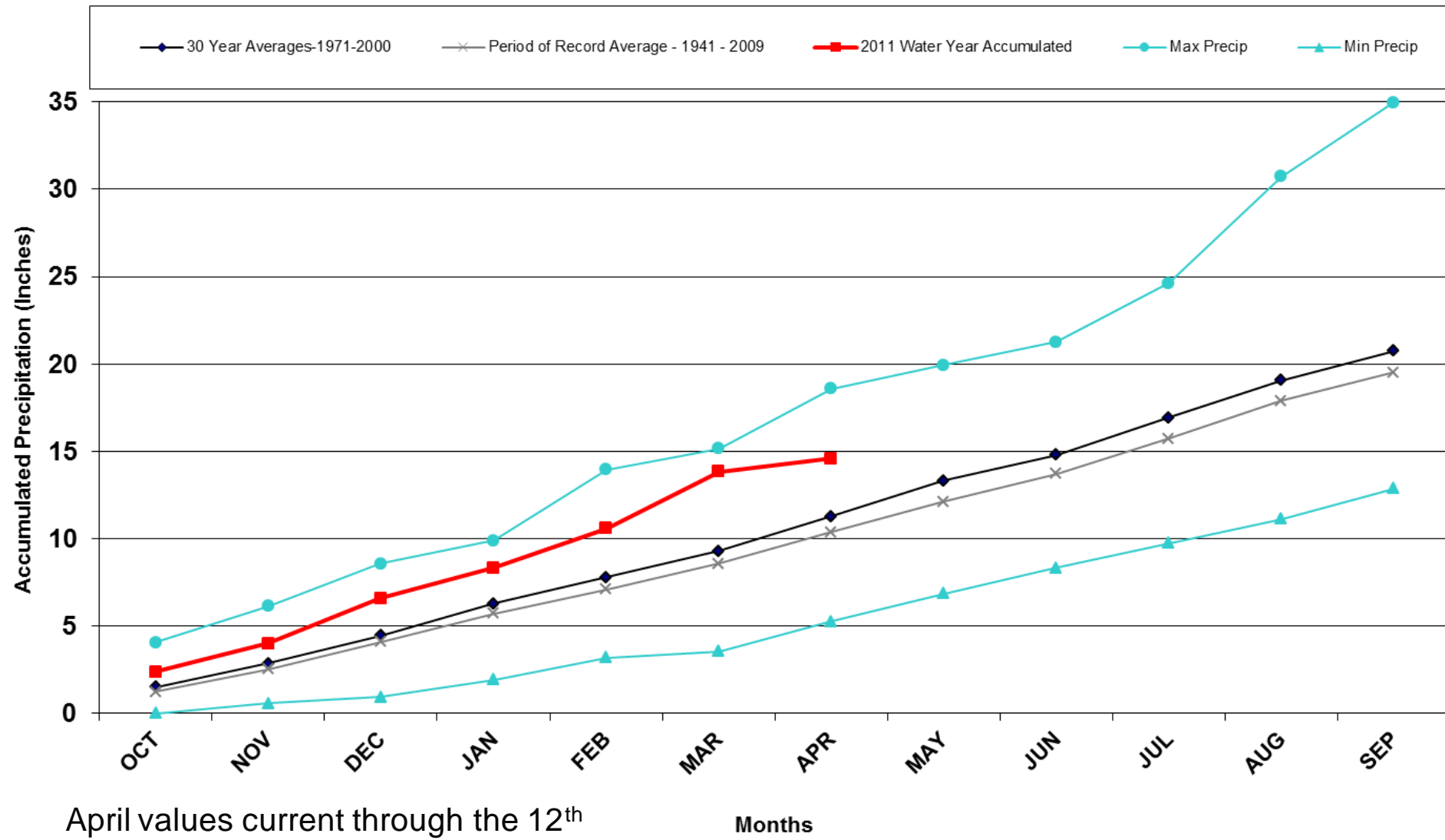
Colorado April Precipitation (in) 1 - 11 April 2011



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



Grand Lake 1 NW 2011 Water Year

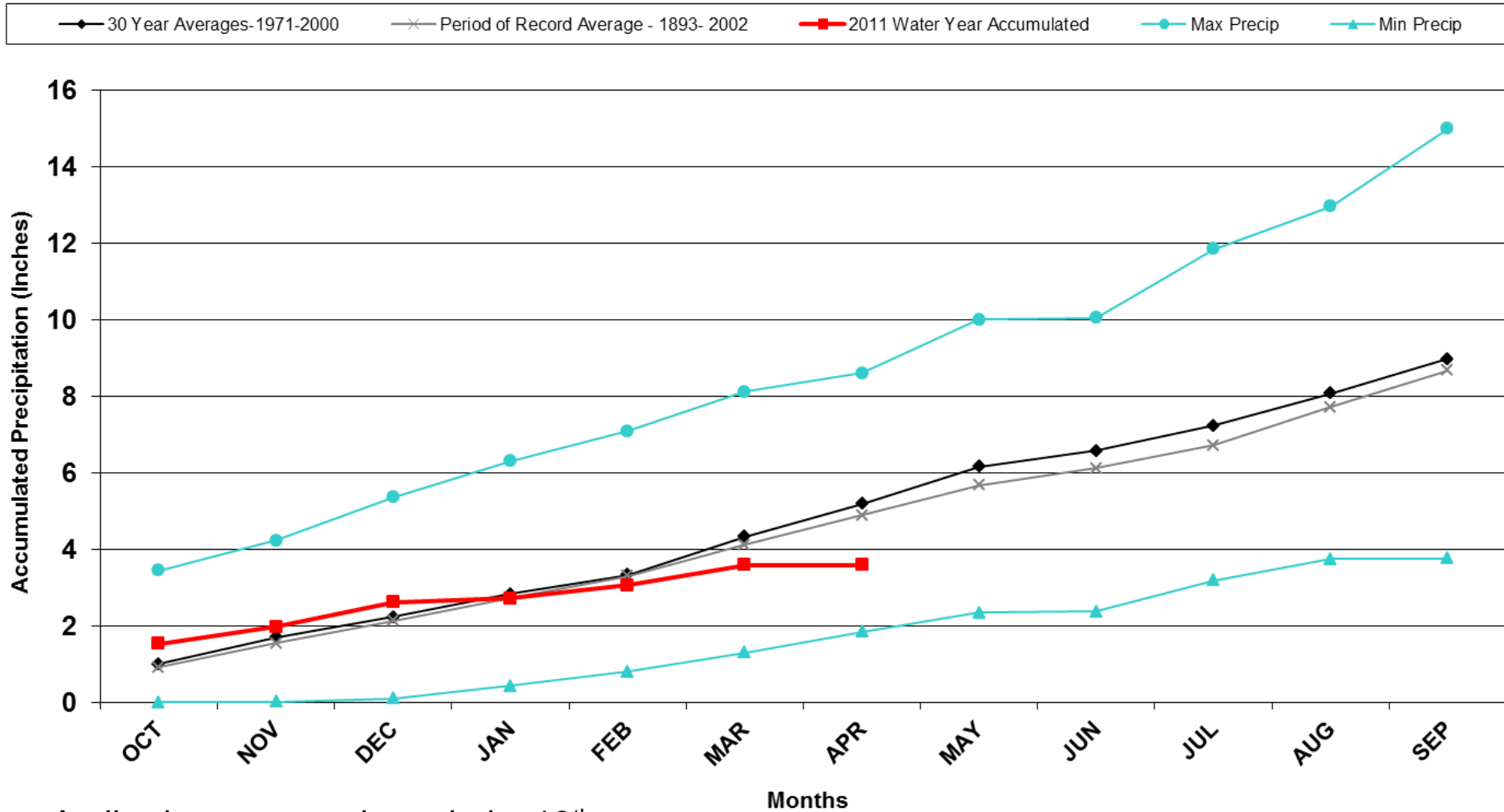


April values current through the 12th

Months



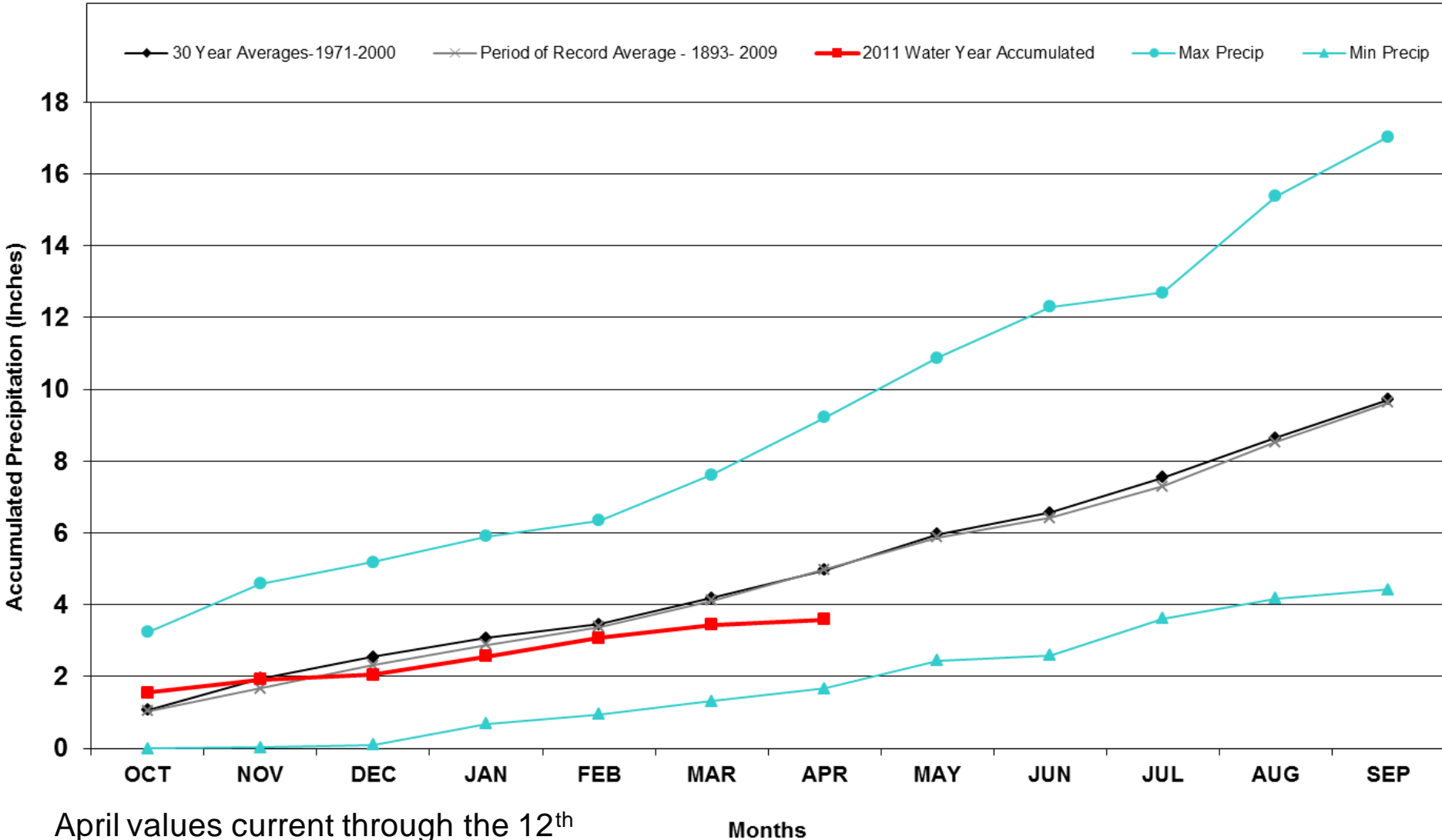
Grand Junction WSFO 2011 Water Year



April values current through the 12th



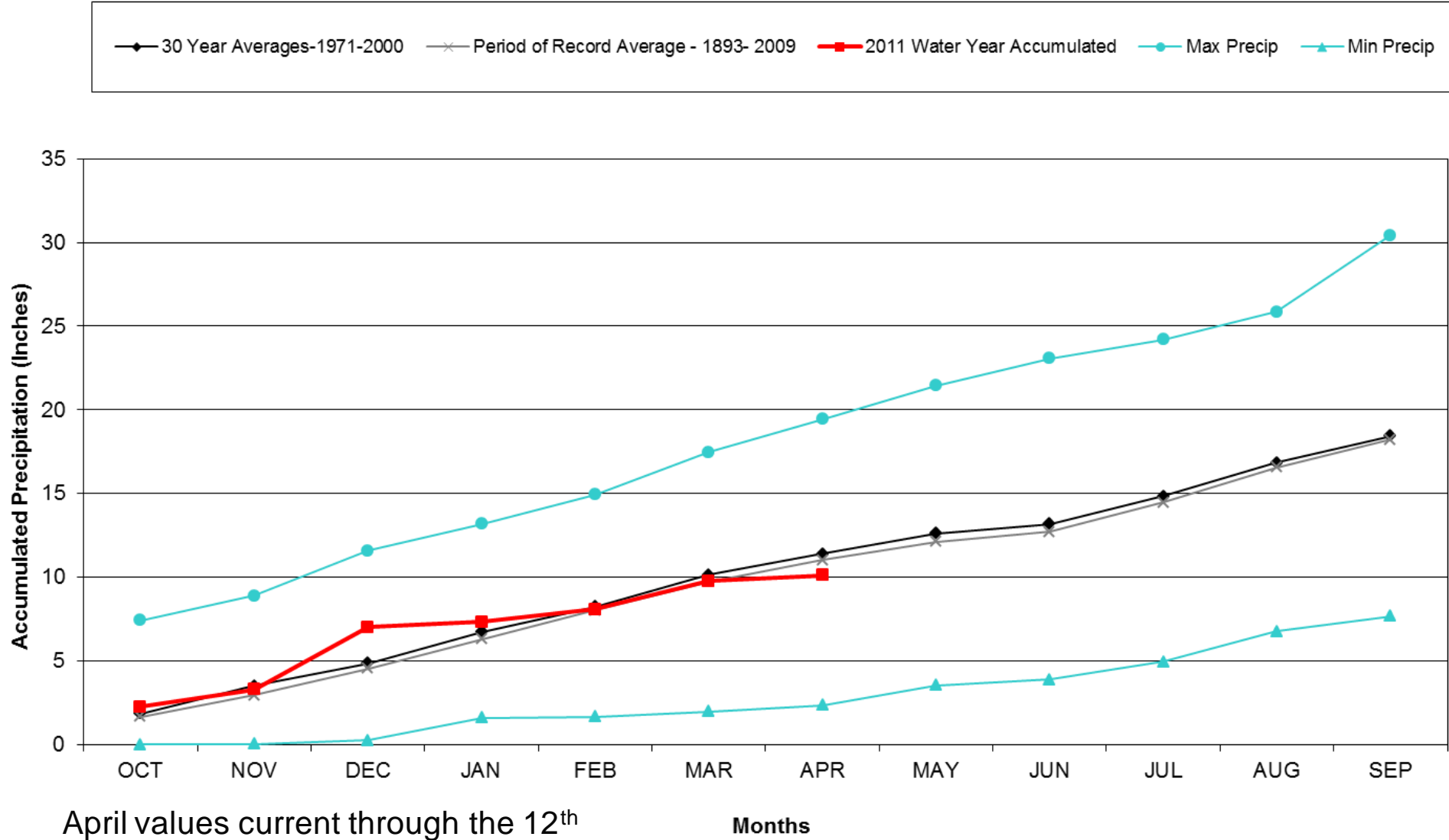
Montrose #2 2011 Water Year



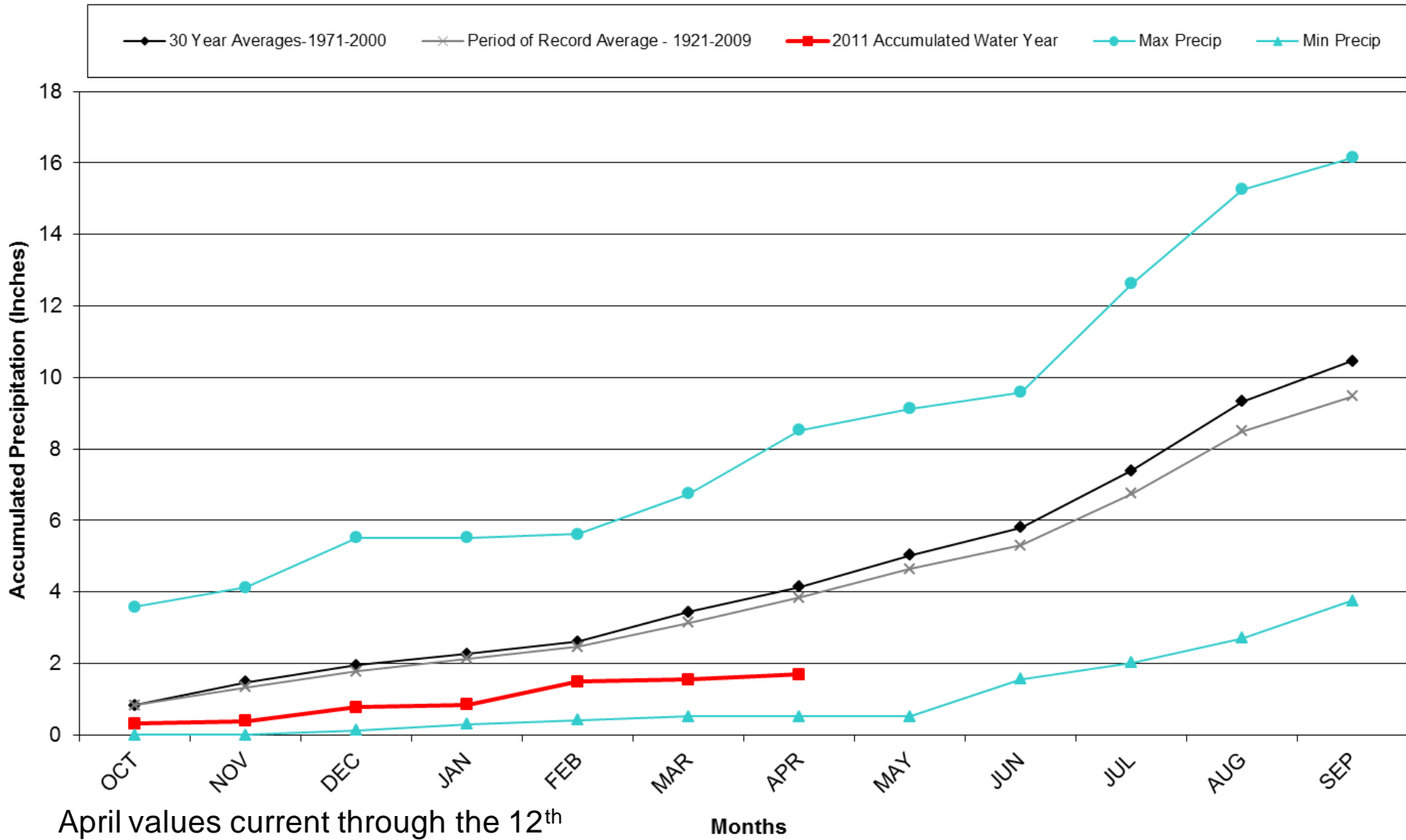
April values current through the 12th

Months

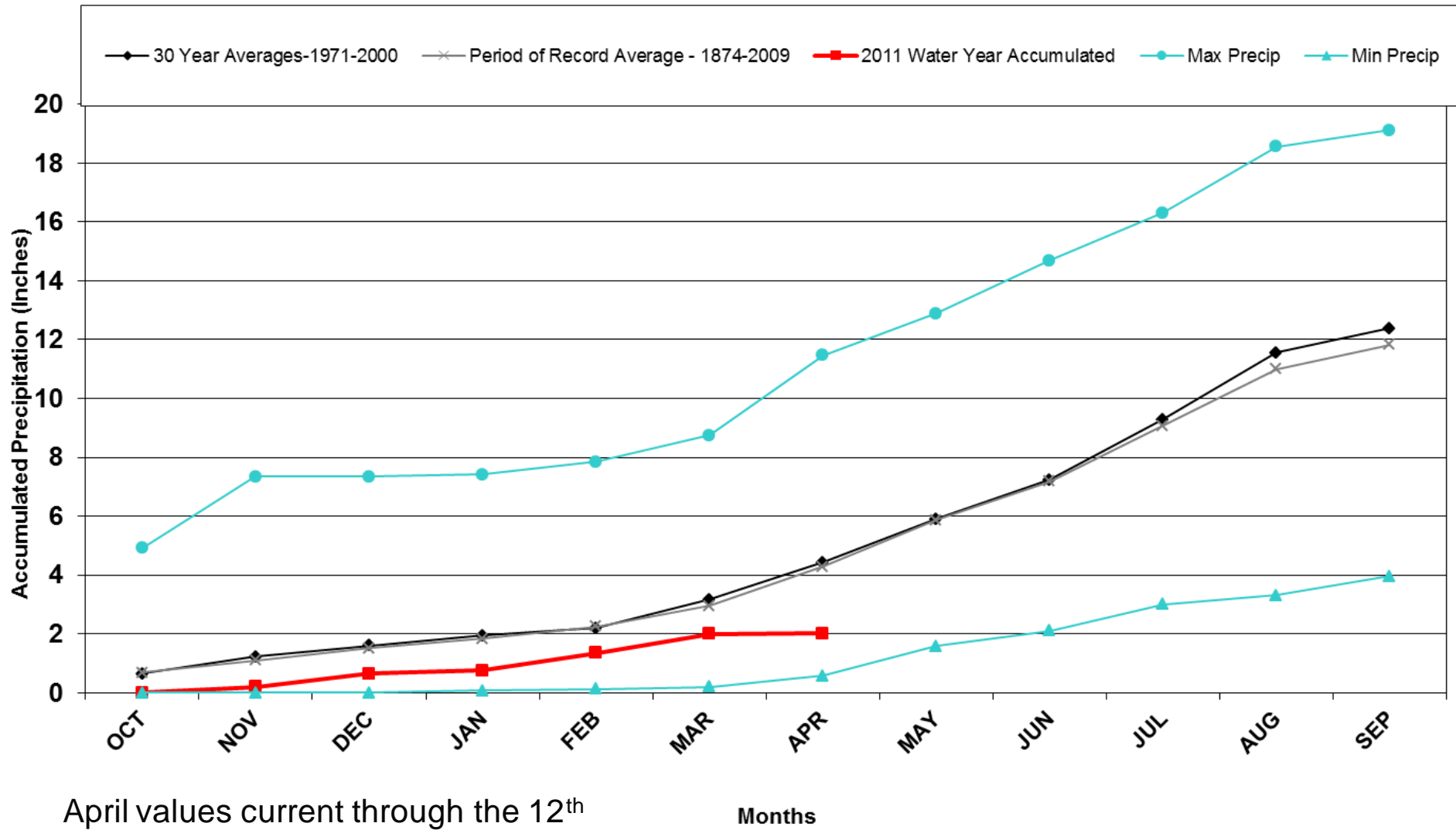
Mesa Verde NP 2011 Water Year



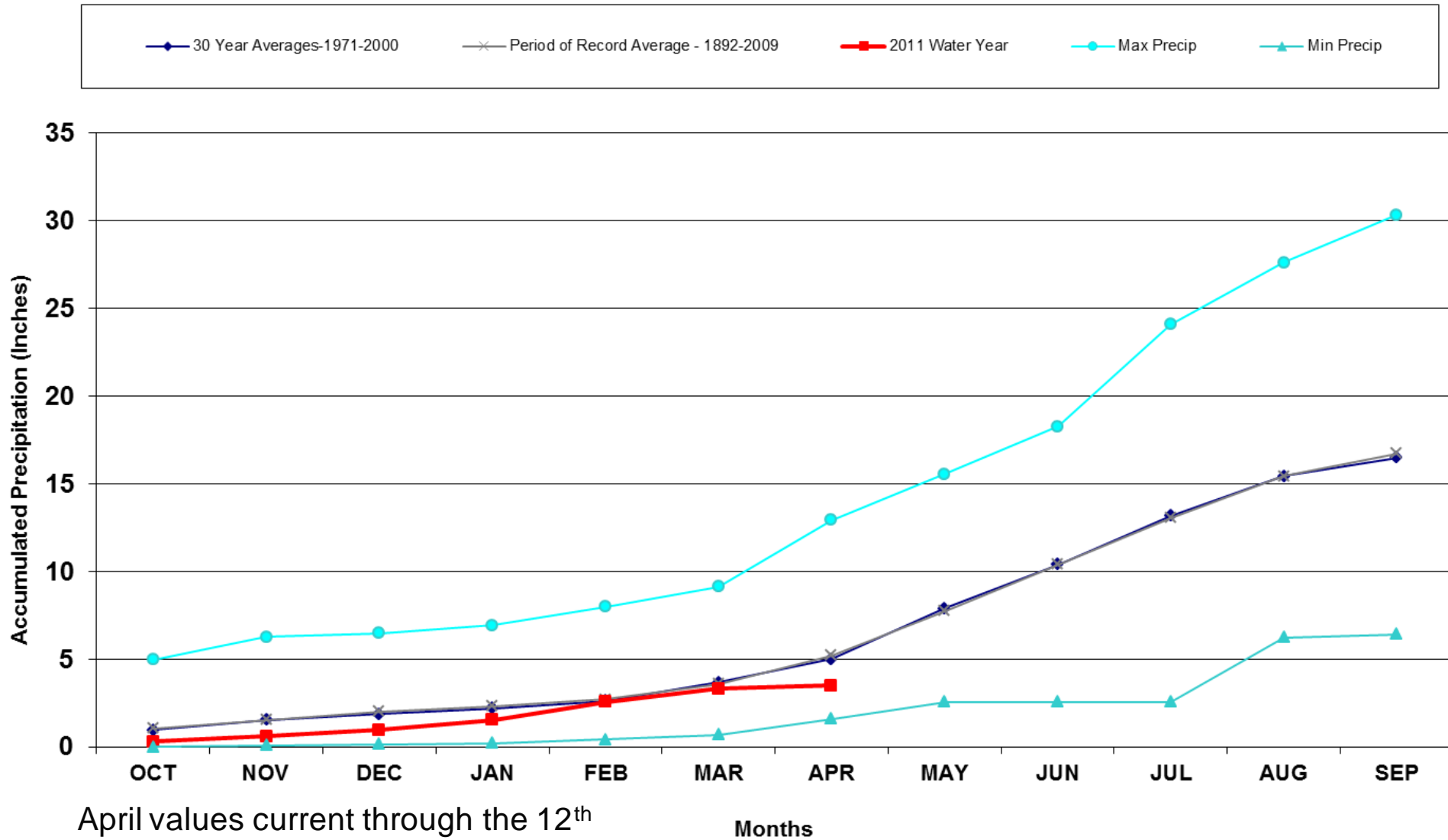
Del Norte 2011 Water Year



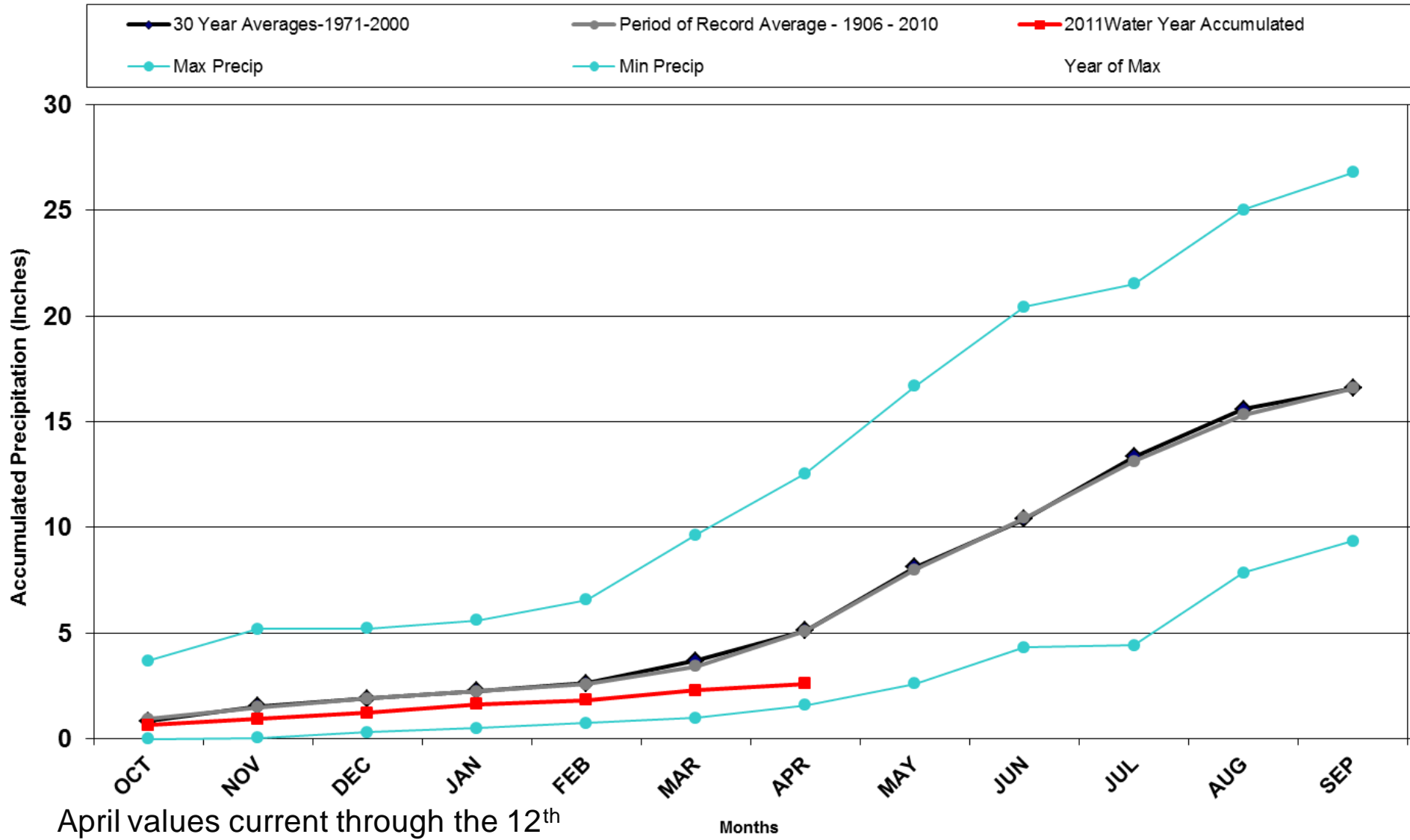
Pueblo WSO 2011 Water Year



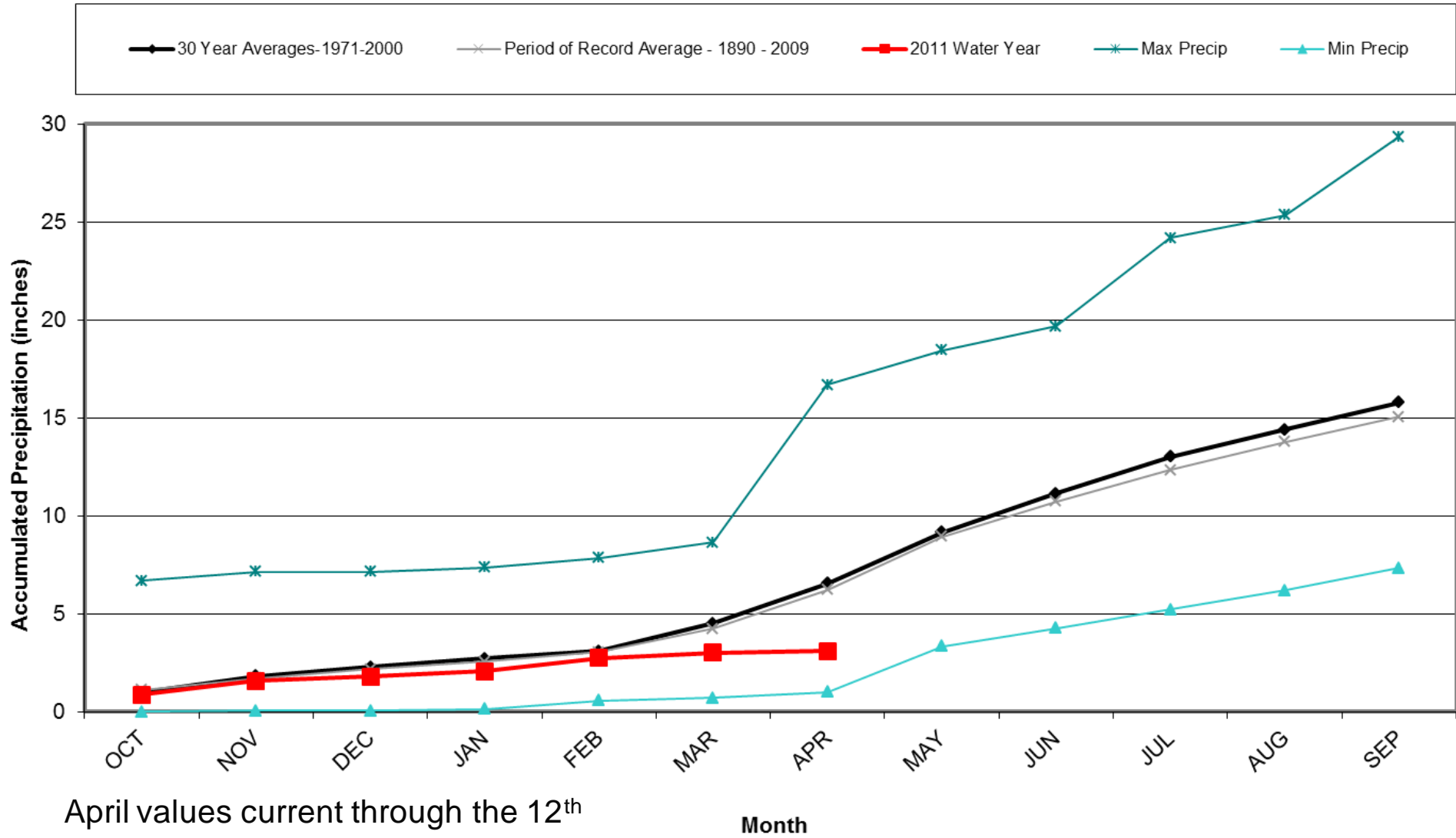
Burlington 2011 Water Year



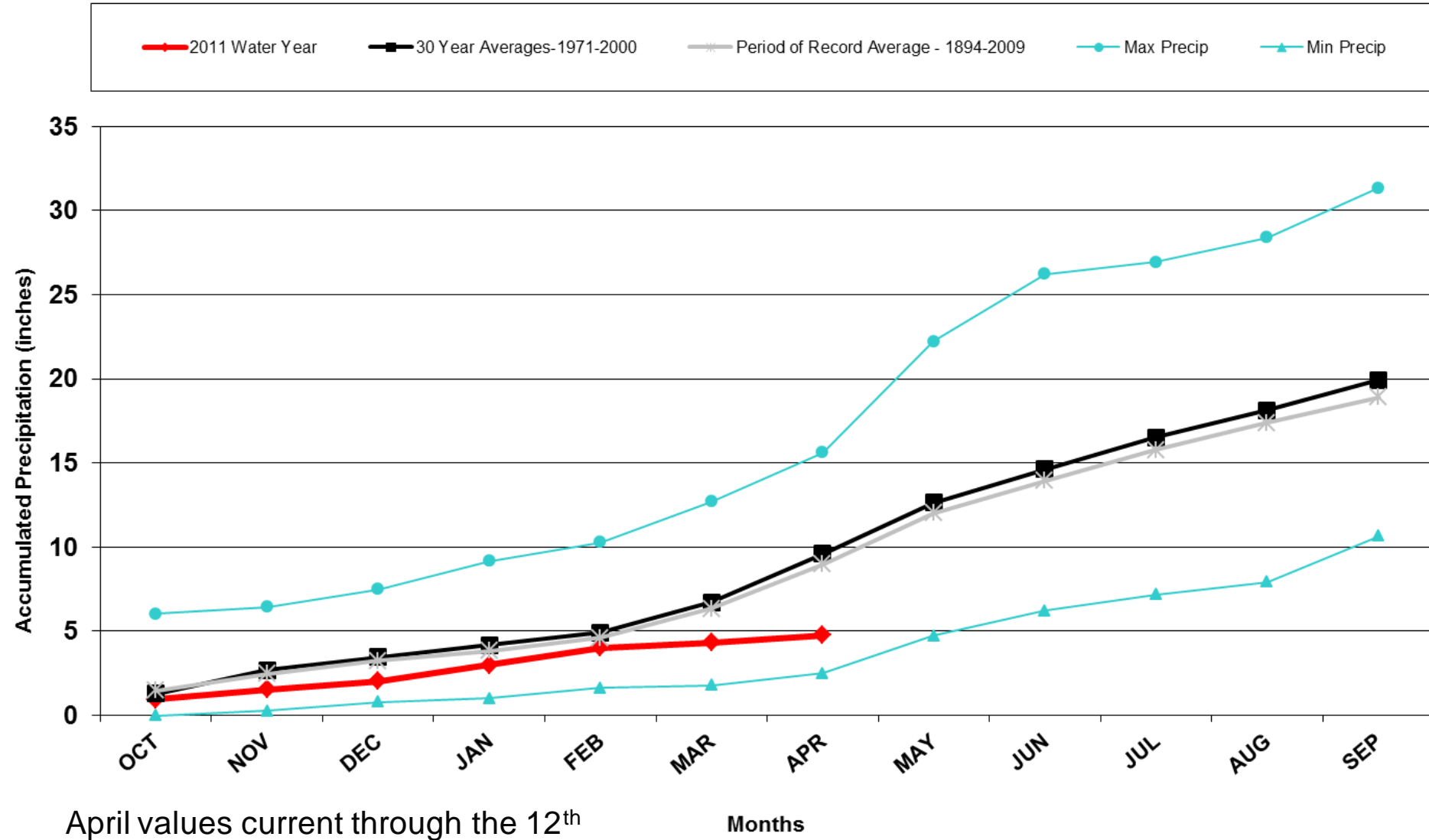
Akron 4E 2011 Water Year



Fort Collins 2011 Water Year

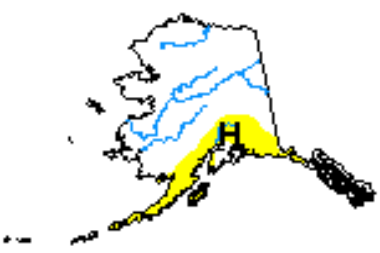


Boulder 2011 Water Year

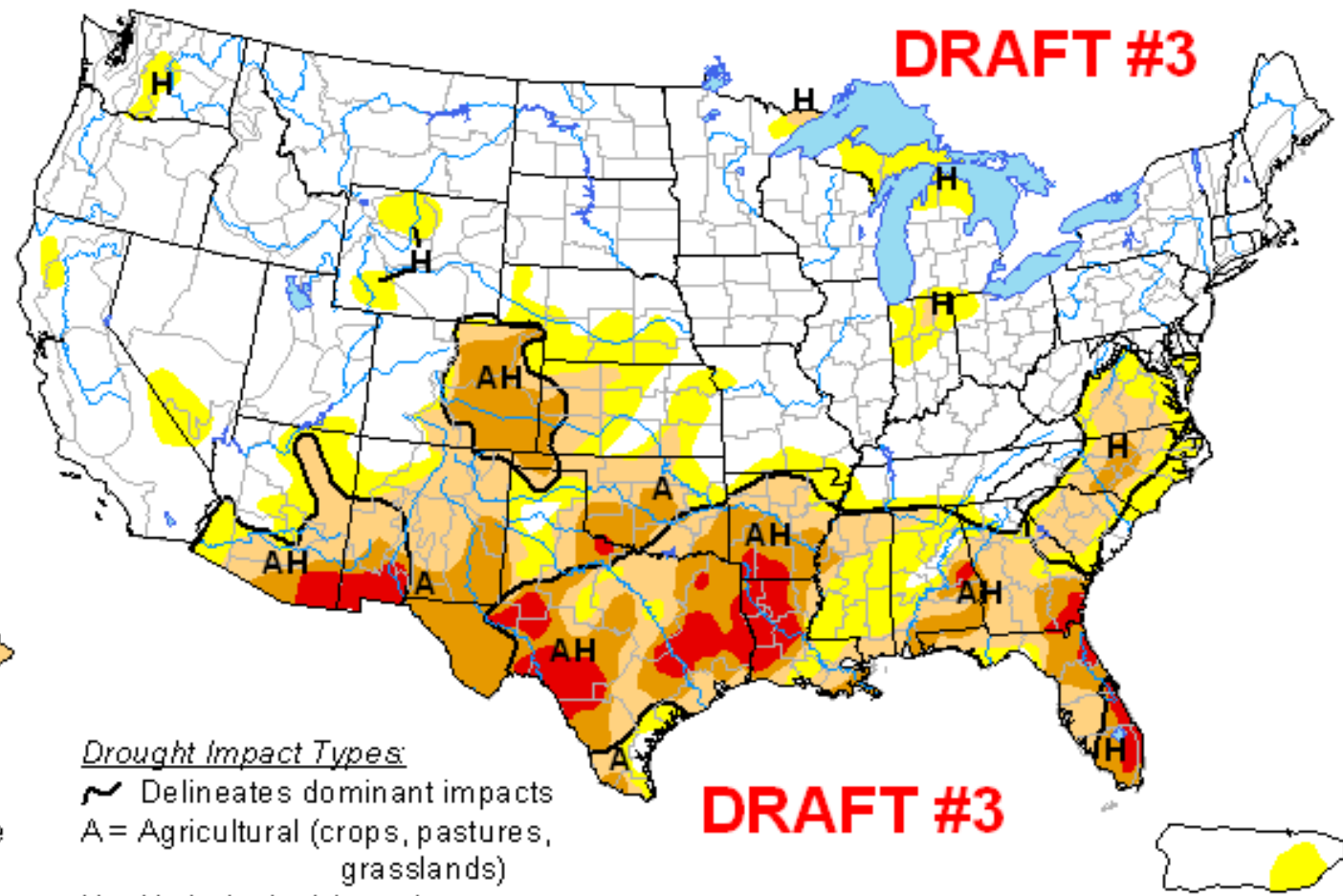


U.S. Drought Monitor






March 15, 2011
Valid 8 a.m. EDT




DRAFT #3



Intensity:

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

Drought Impact Types:

-  Delineates dominant impacts
- A = Agricultural (crops, pastures, grasslands)
- H = Hydrological (water)

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



Released Thursday, March 17, 2011

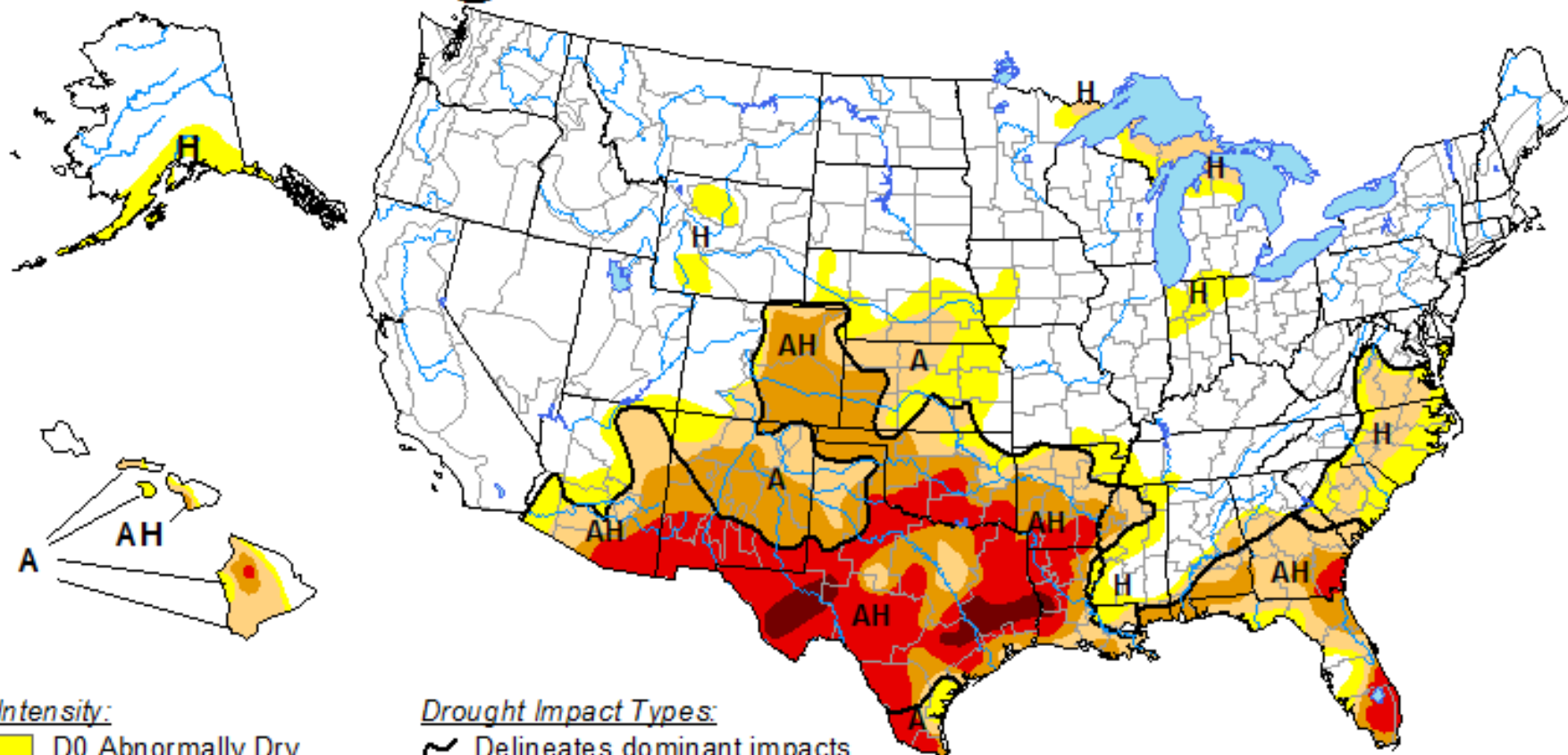
Author: Laura Edwards, Western Regional Climate Center

<http://drought.unl.edu/dm>






U.S. Drought Monitor

April 12, 2011


Valid 8 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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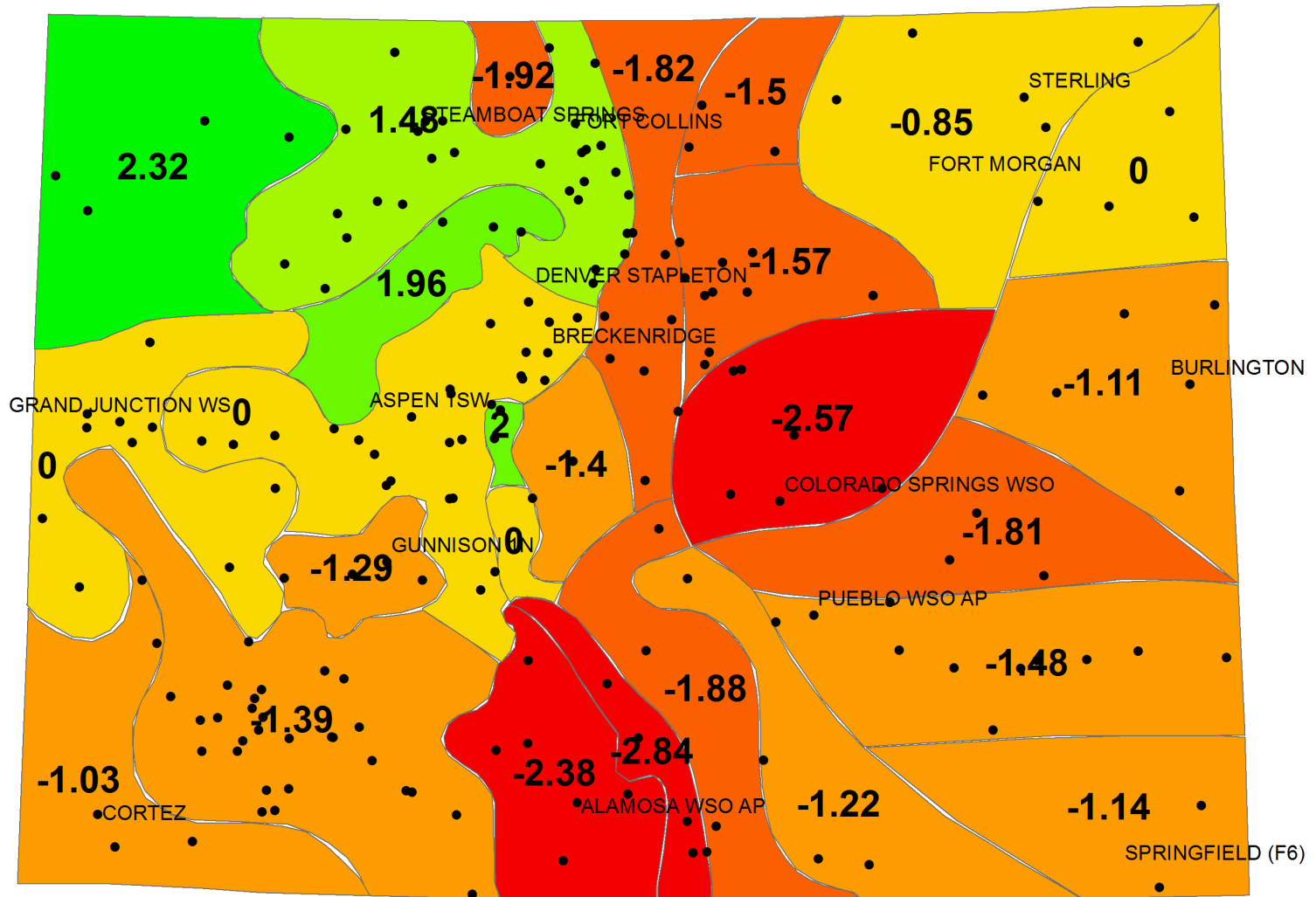
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>



Released Thursday, April 14, 2011
Author: Anthony Artusa, NOAA/NWS/NCEP/CPC

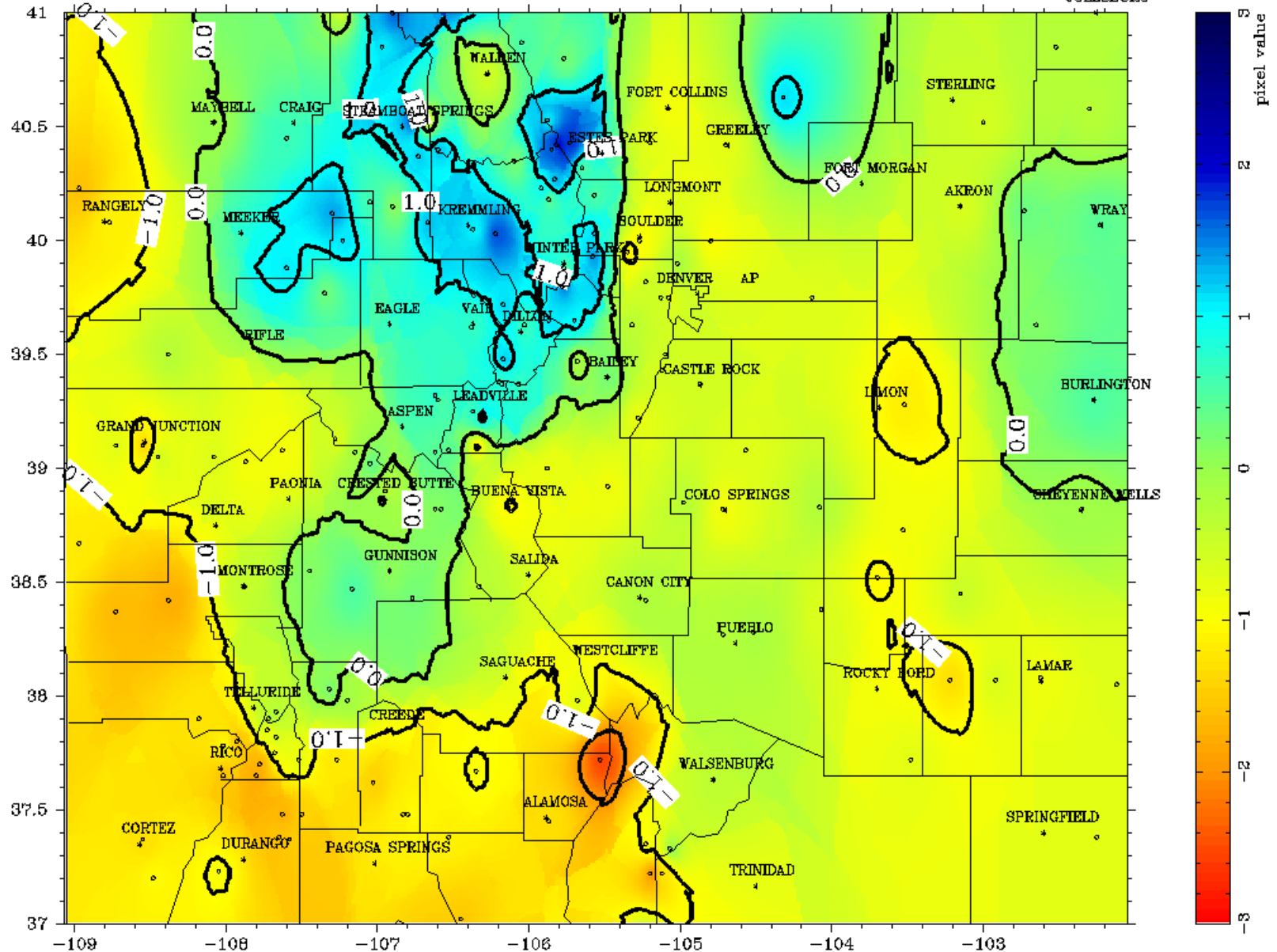
Modified Palmer Drought Severity Index for Colorado March 2011



Colorado

3/2011 3 mon. SPI

JULESBURG



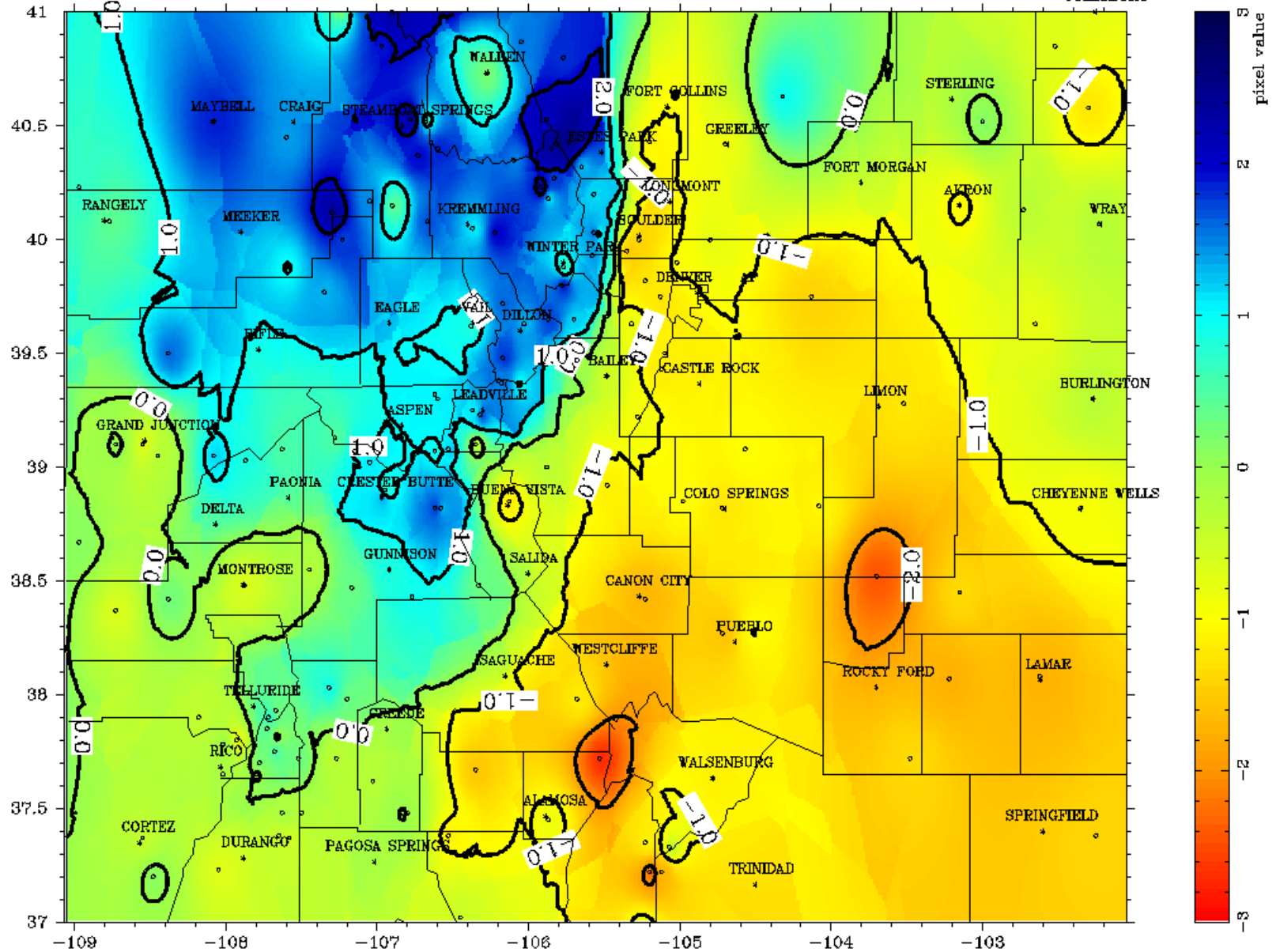
100 % < 2.0 19 % < -1.0
96 % < 1.0 0 % < -2.0
76 % < 0.0 0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

Colorado

3/2011 6 mon. SPI

JULESBURG



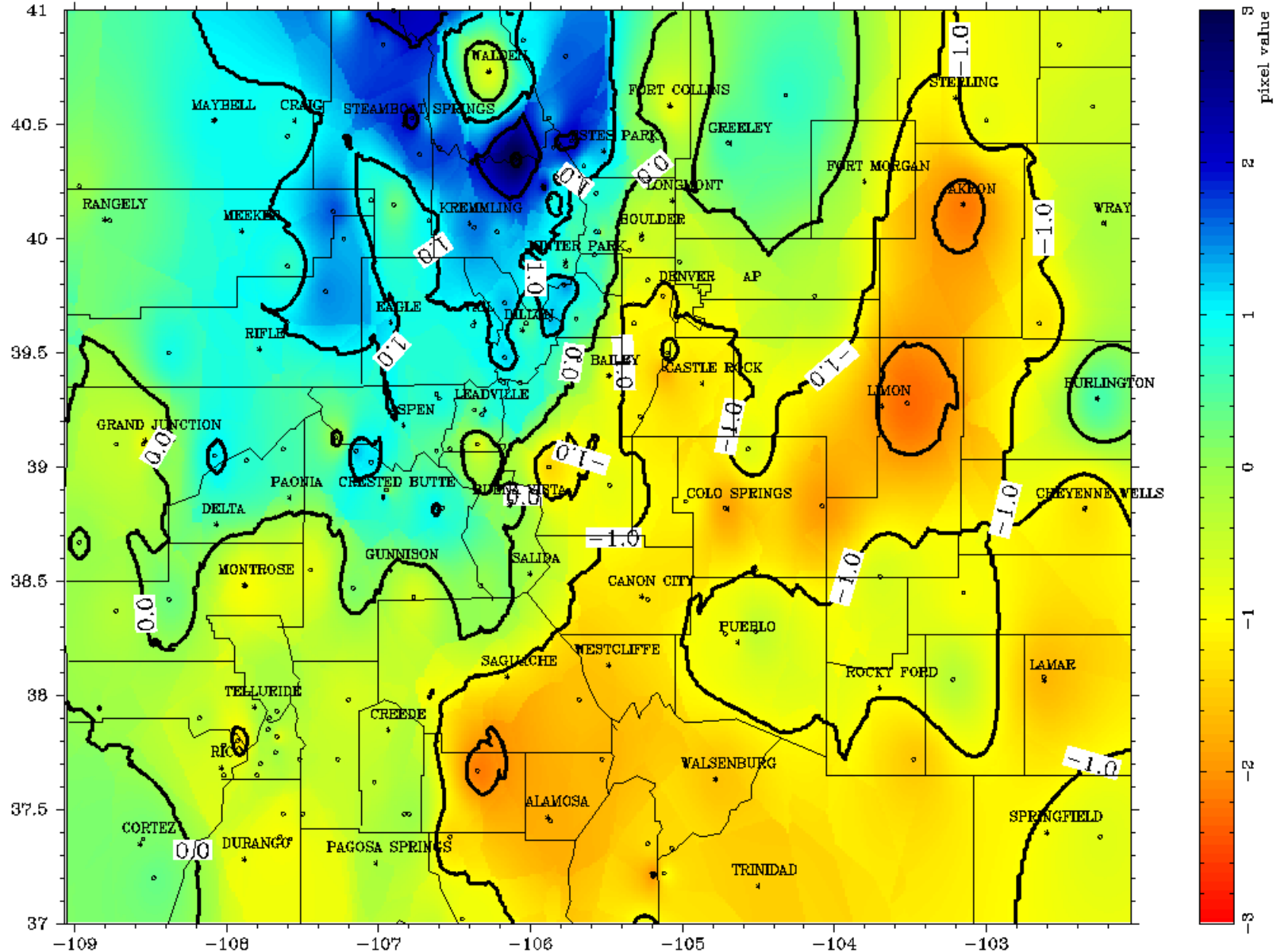
99 % < 2.0	35 % < -1.0
82 % < 1.0	1 % < -2.0
66 % < 0.0	0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

Colorado

3/2011 12 mon. SPI

JULESBURG

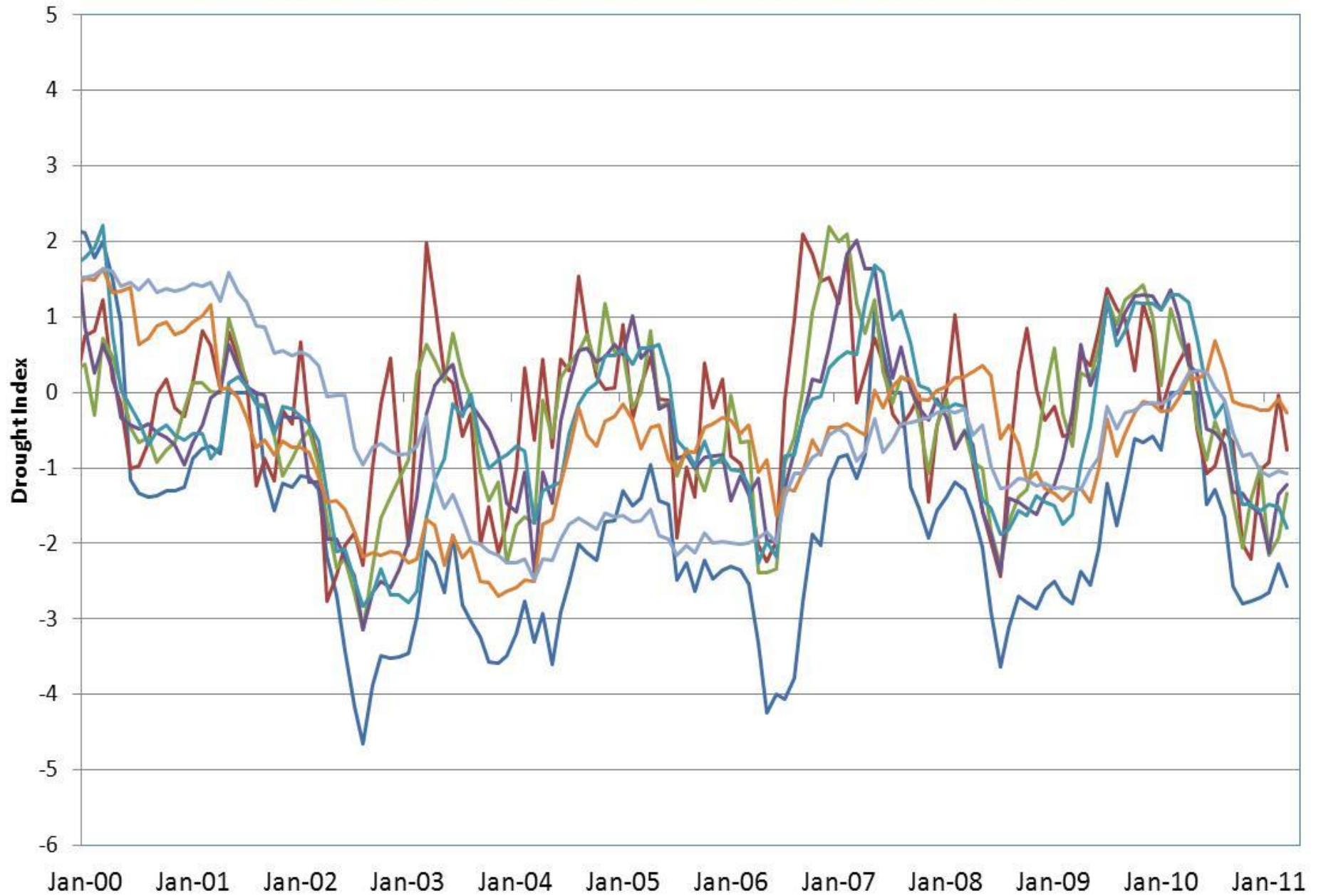


99 % < 2.0	31 % < -1.0
91 % < 1.0	1 % < -2.0
66 % < 0.0	0 % < -3.0

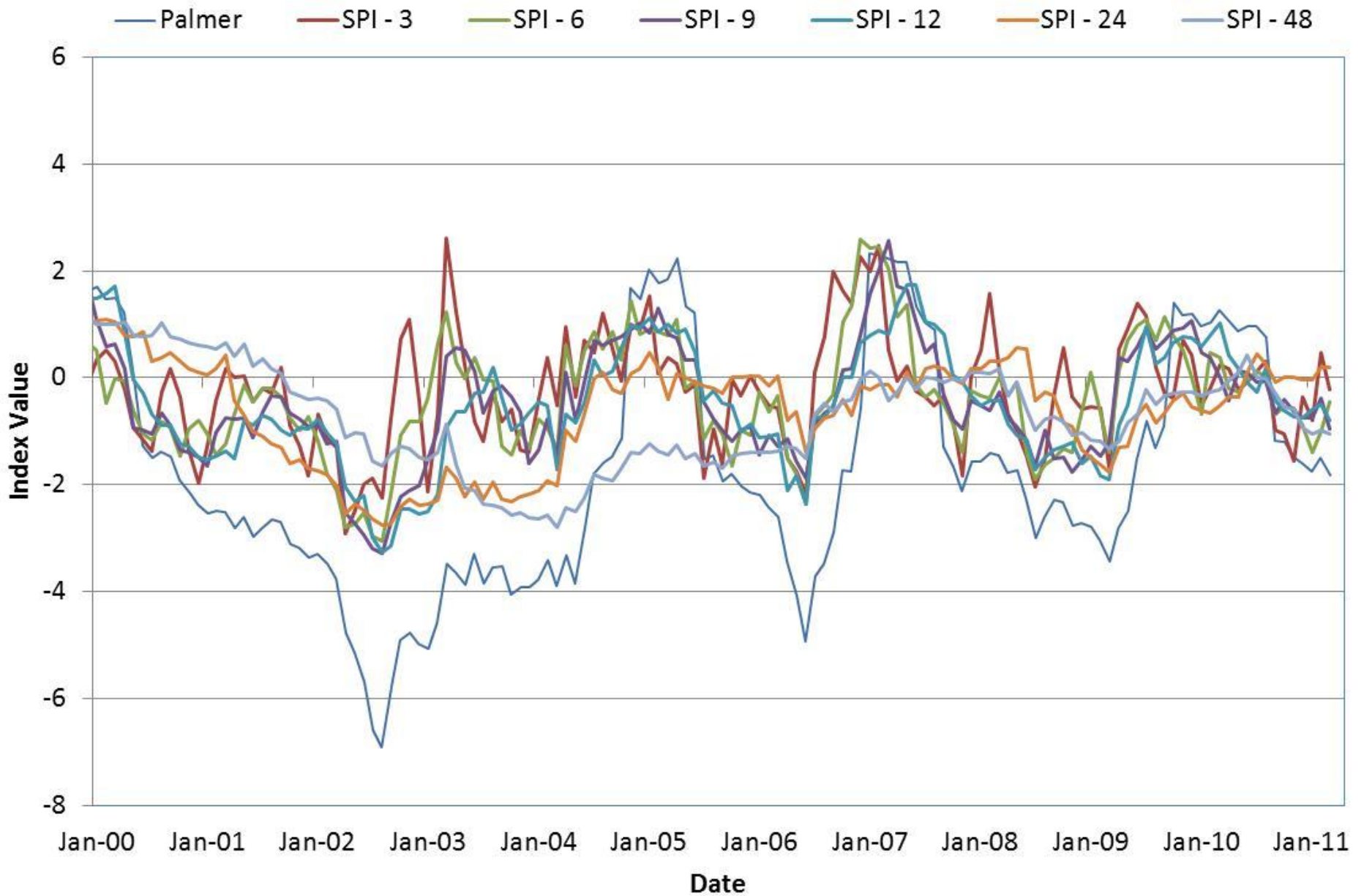
Produced by:
Colorado Climate Center
Fort Collins, CO

Region 13: Pikes Peak

Palmer SPI - 3 SPI - 6 SPI - 9 SPI - 12 SPI - 24 SPI - 48

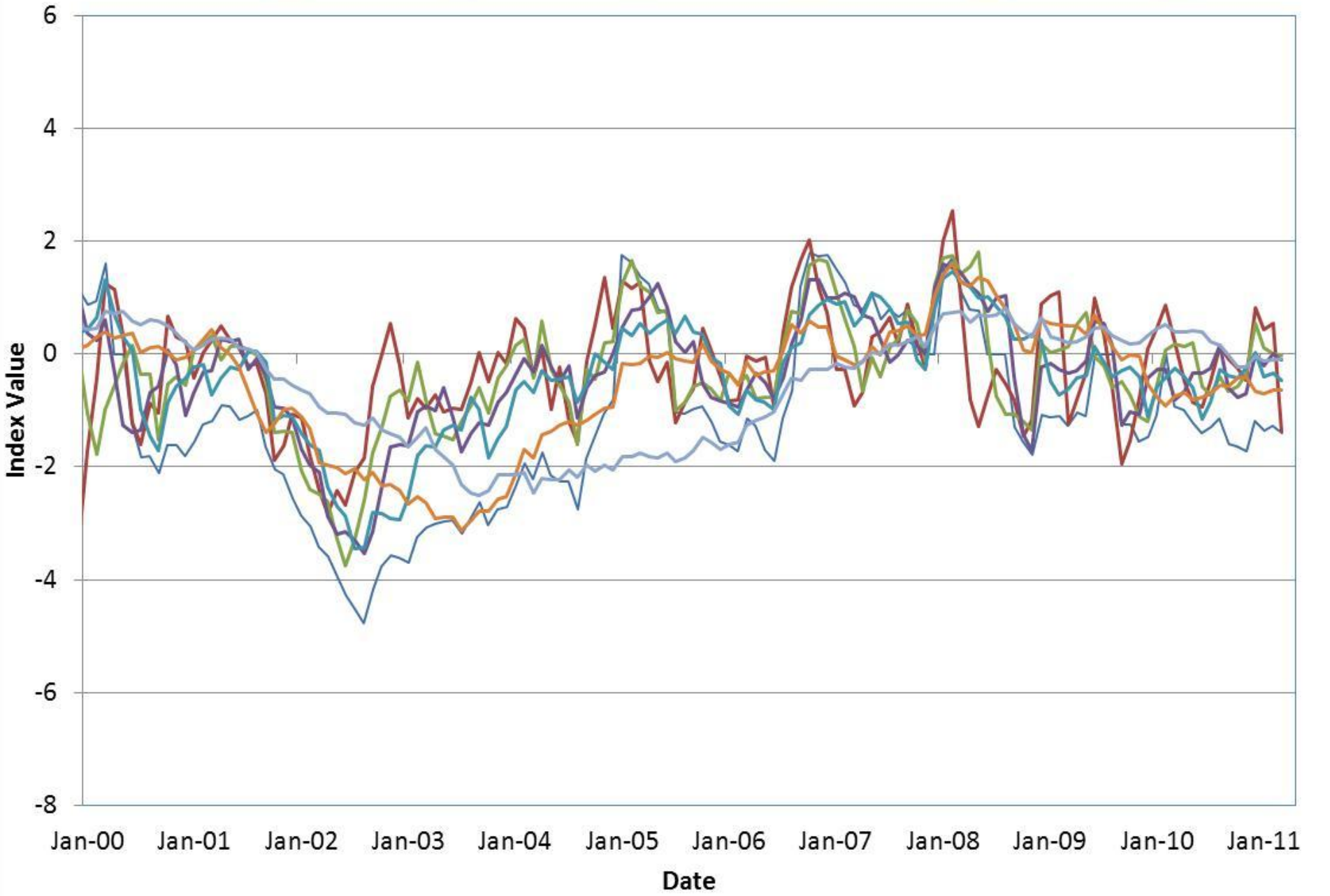


Region 14: Front Range



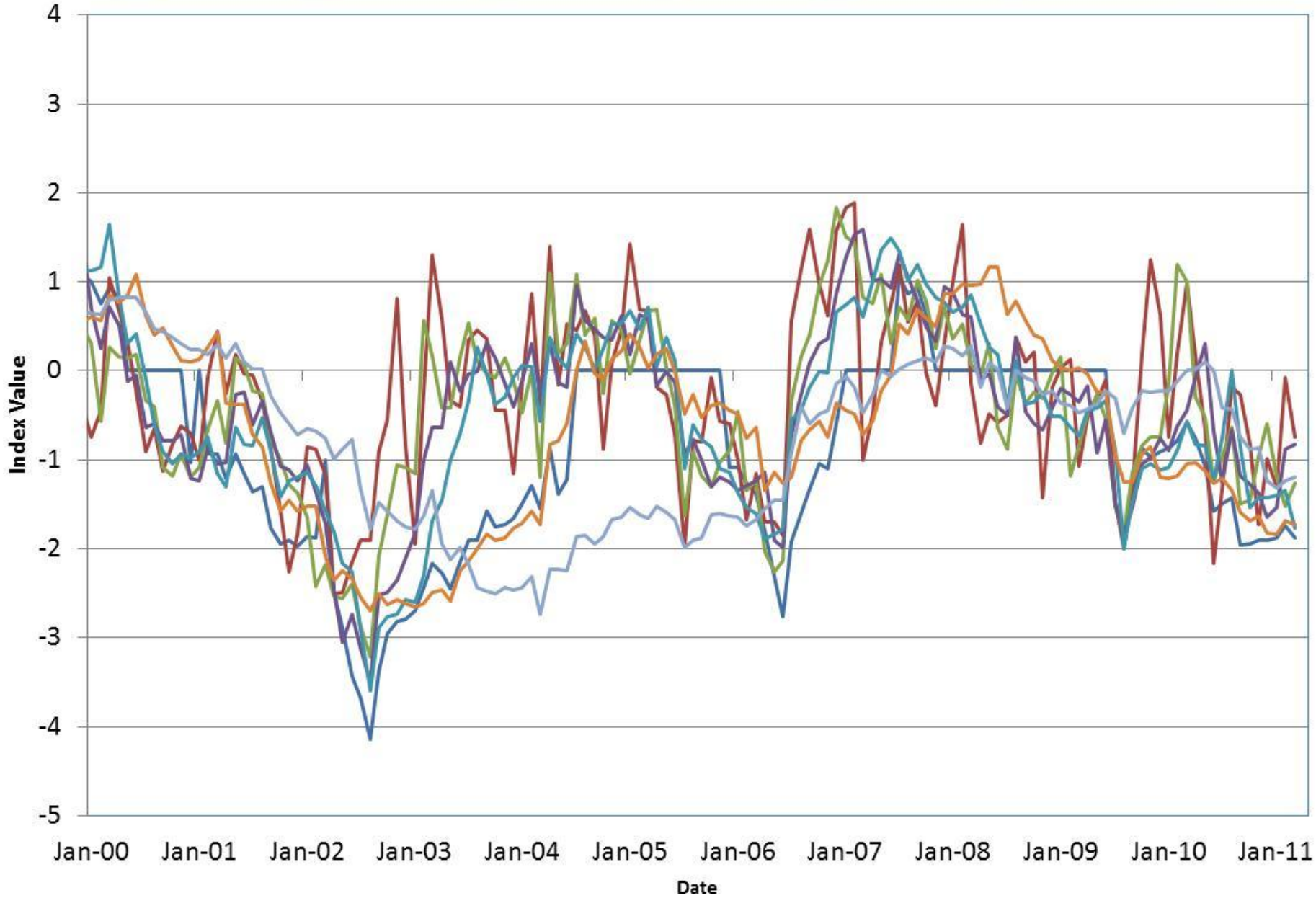
Region 23: San Juans

Palmer SPI - 3 SPI - 6 SPI - 9 SPI - 12 SPI - 24 SPI - 48



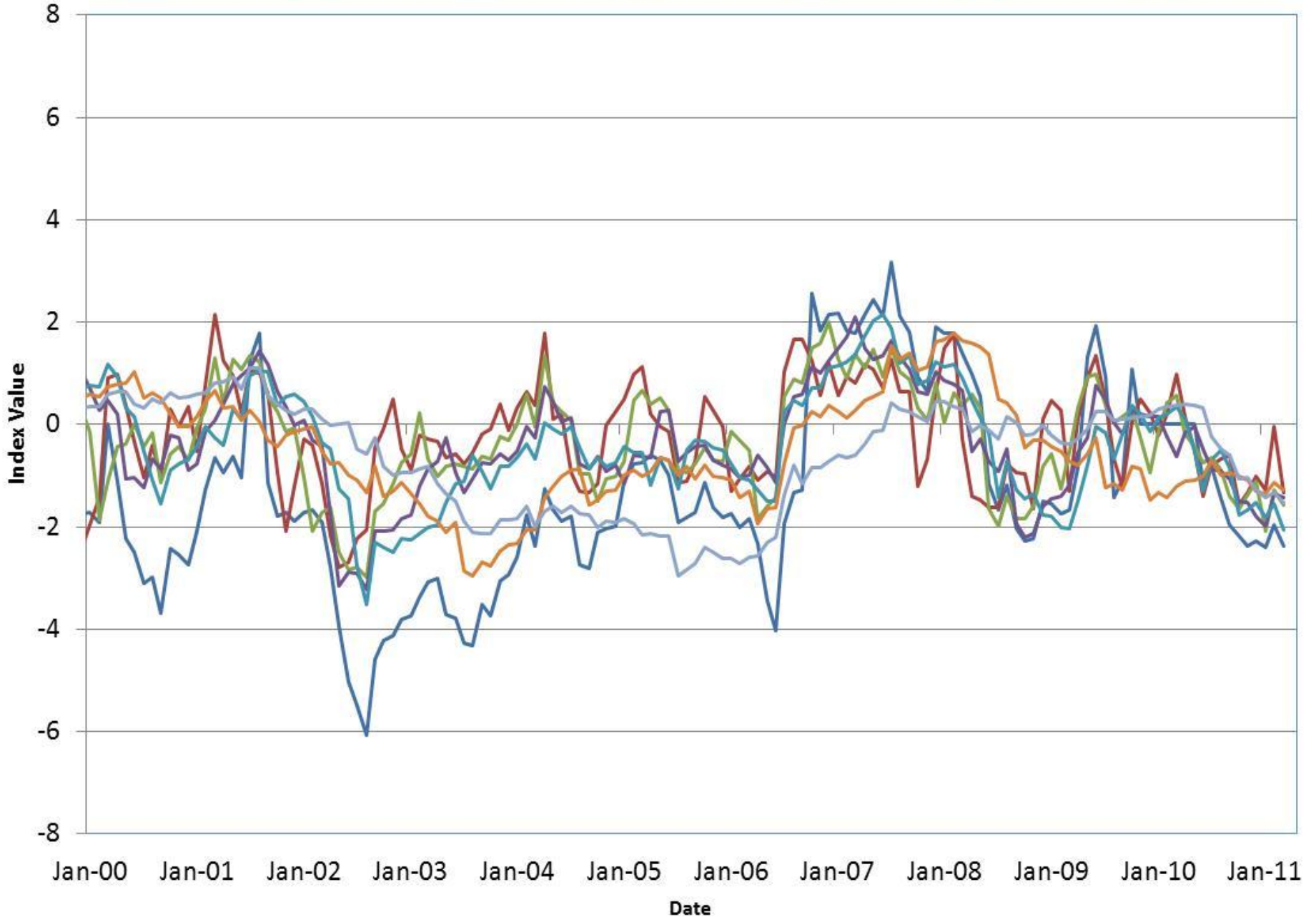
Region 5: Arkansas Drainage : Foothills

Palmer SPI - 3 SPI - 6 SPI - 9 SPI - 12 SPI - 24 SPI - 48



Region 17 : San Luis Valley

Palmer SPI - 3 SPI - 6 SPI - 9 SPI - 12 SPI - 24 SPI - 48



Colorado Climate Center



Colorado
State
University
Knowledge to Go Places

Data and Power Point Presentations available for downloading

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