

Climate Update

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Colorado Climate Center**

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Colorado State University**

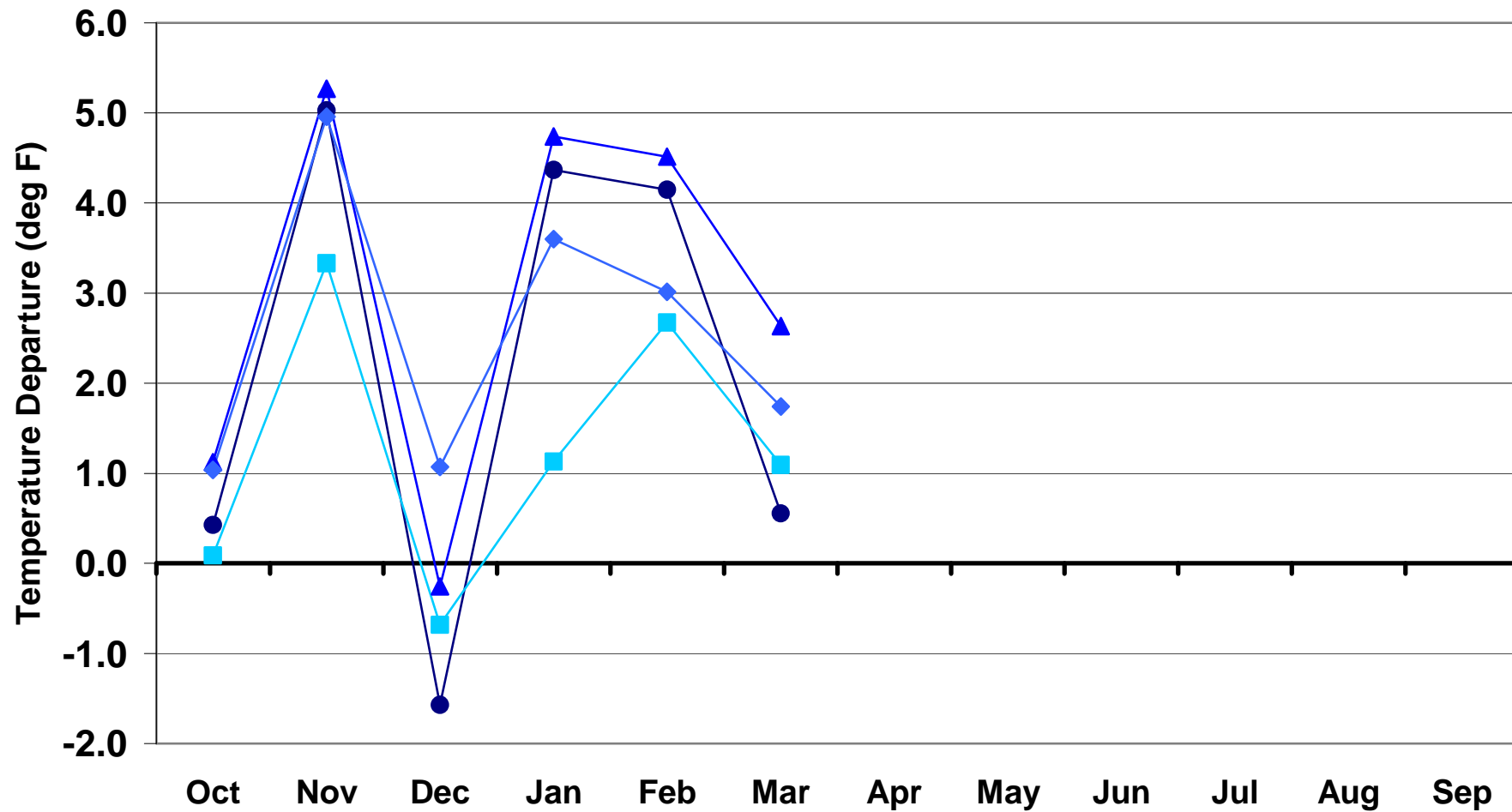
**Presented to
Water Availability and Flood Task Force
April 22, 2009
Denver, CO**



Prepared by Wendy Ryan

Water Year 2009 Temperature Departures

Water Year 2009



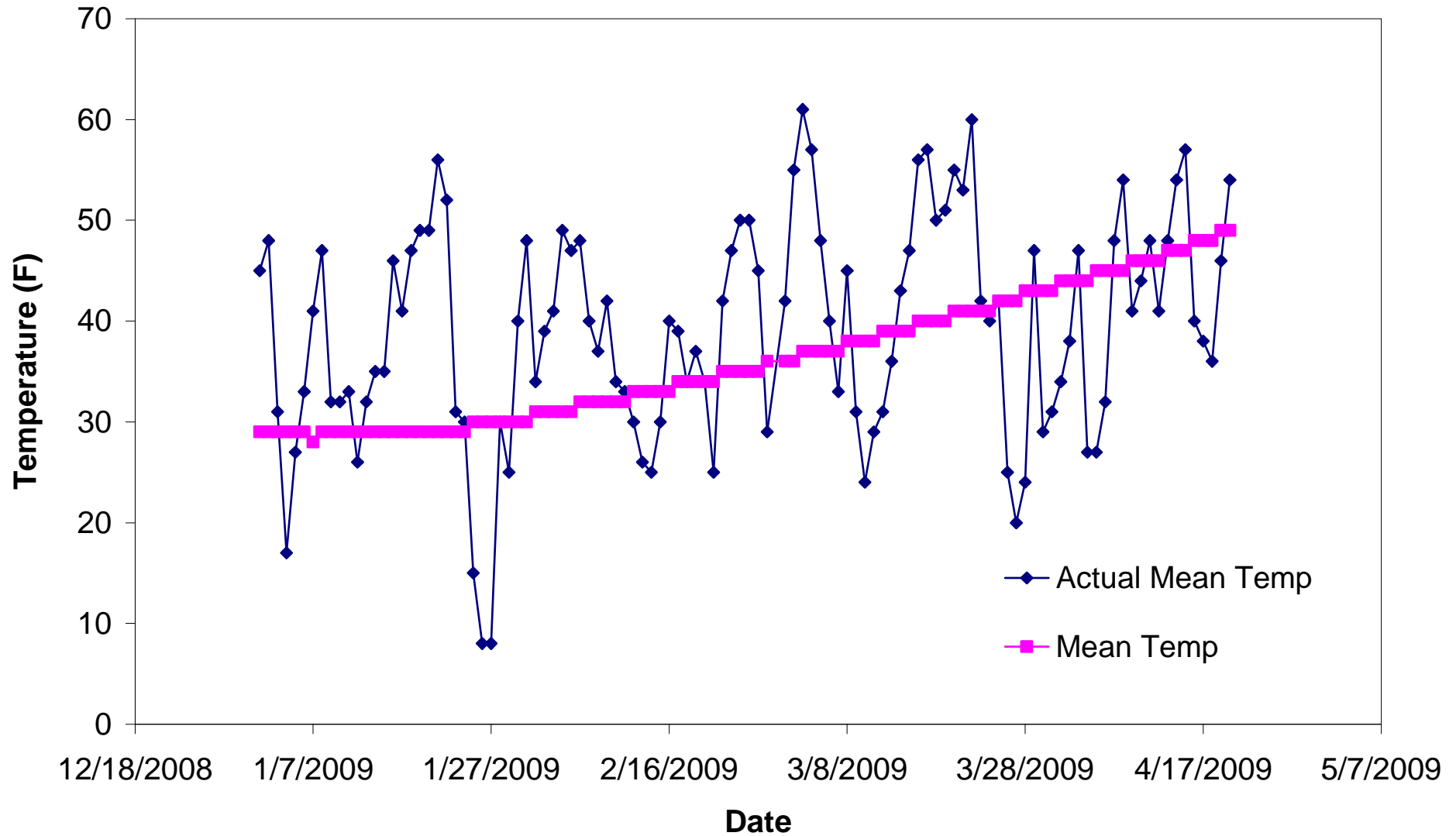
● Eastern Plains

▲ Foothills

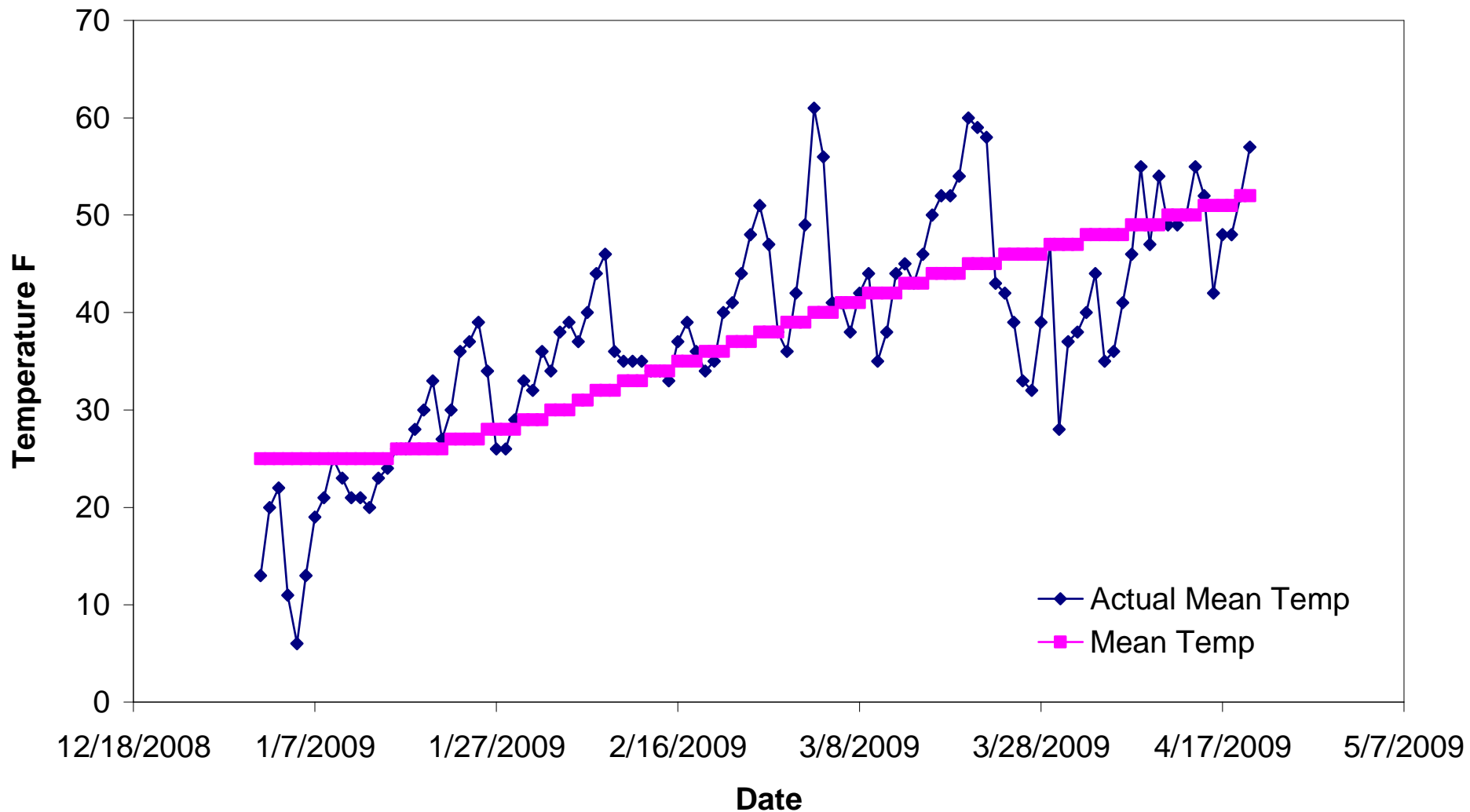
◆ Mountains

■ Western Valleys

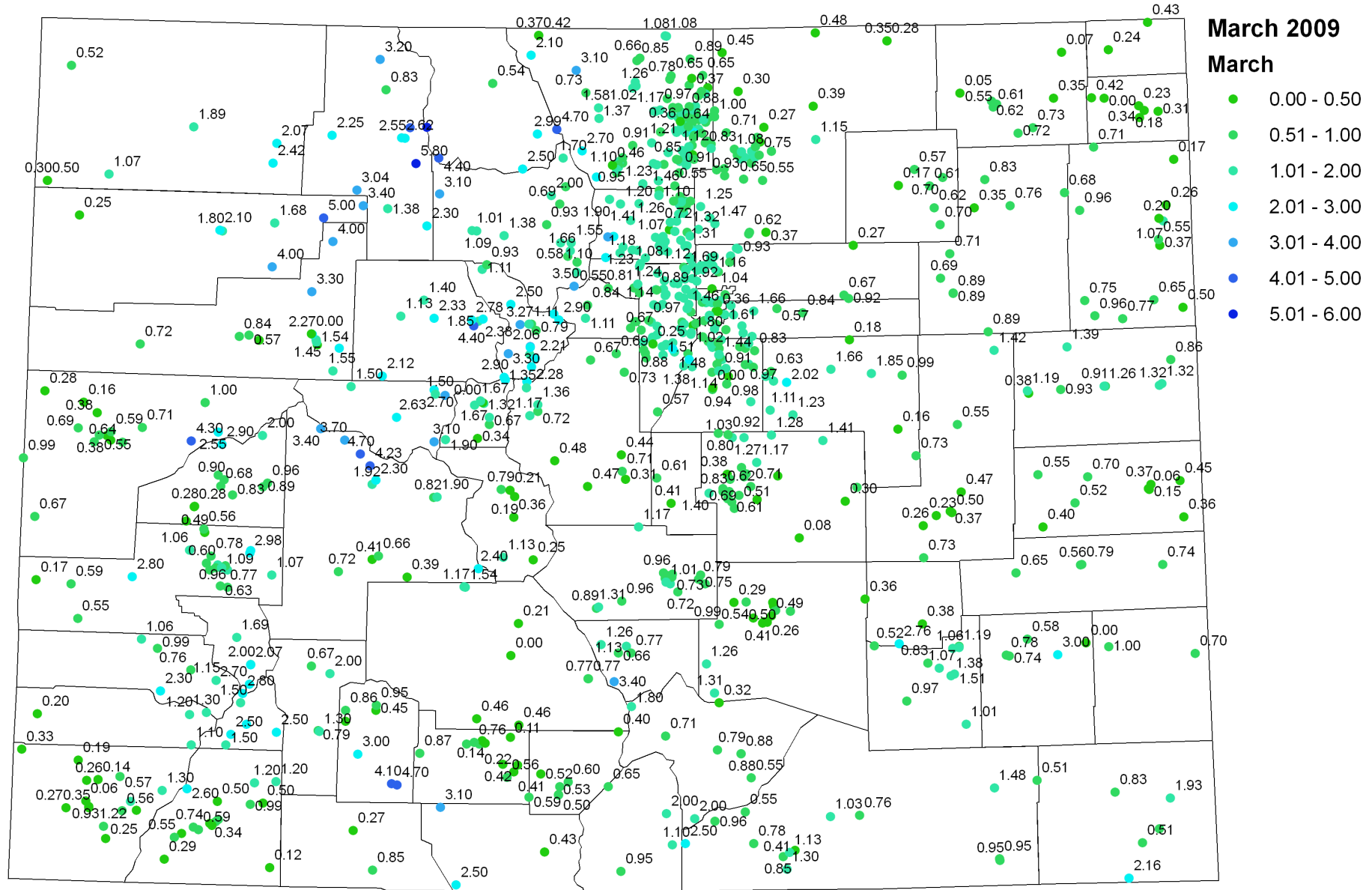
Denver, CO Jan 1 - Apr 20 2009 Mean and Actual Daily Temperature



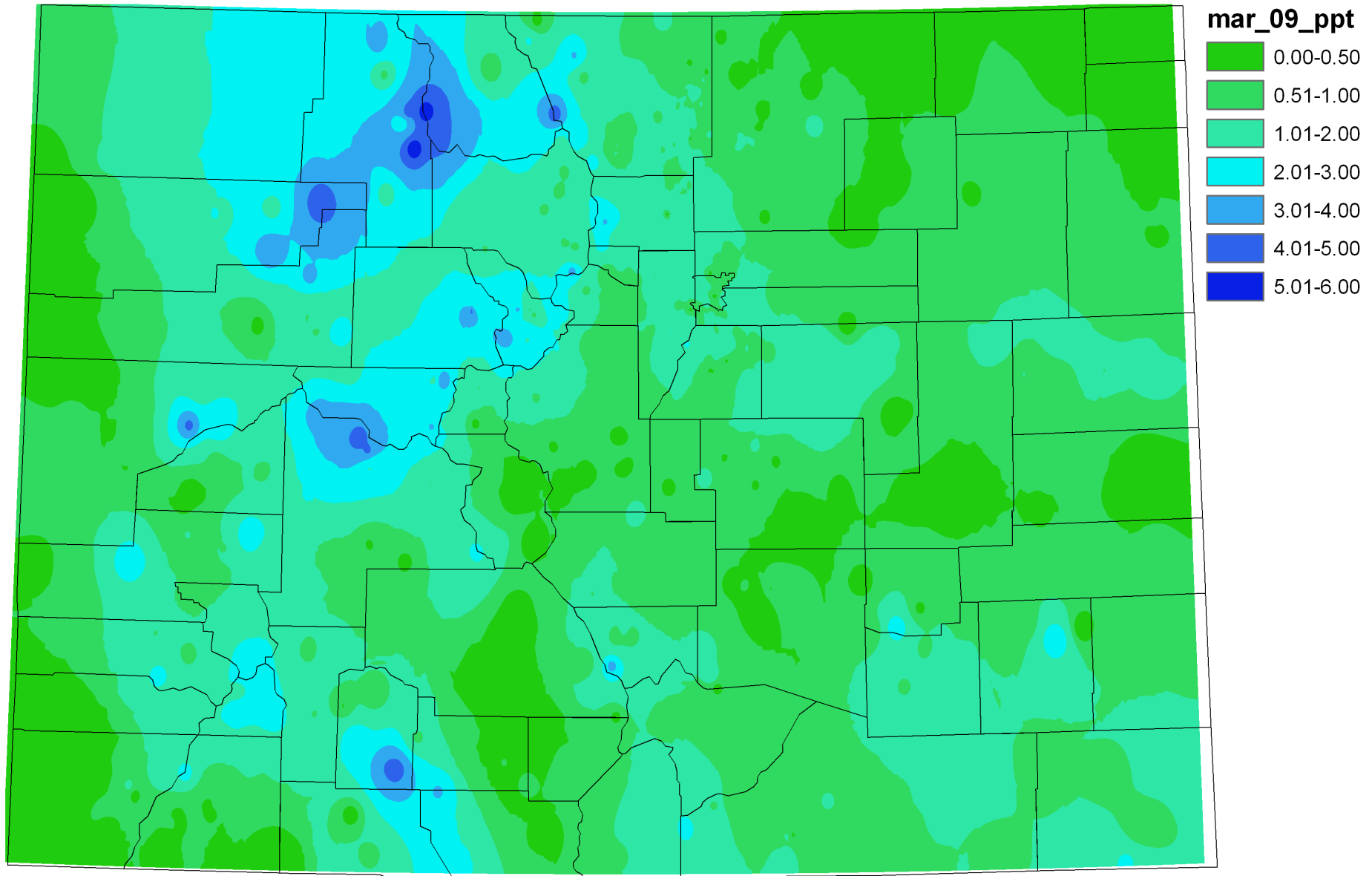
Grand Junction Jan 1 - Apr 20 2009 Mean and Actual Daily Temperatures



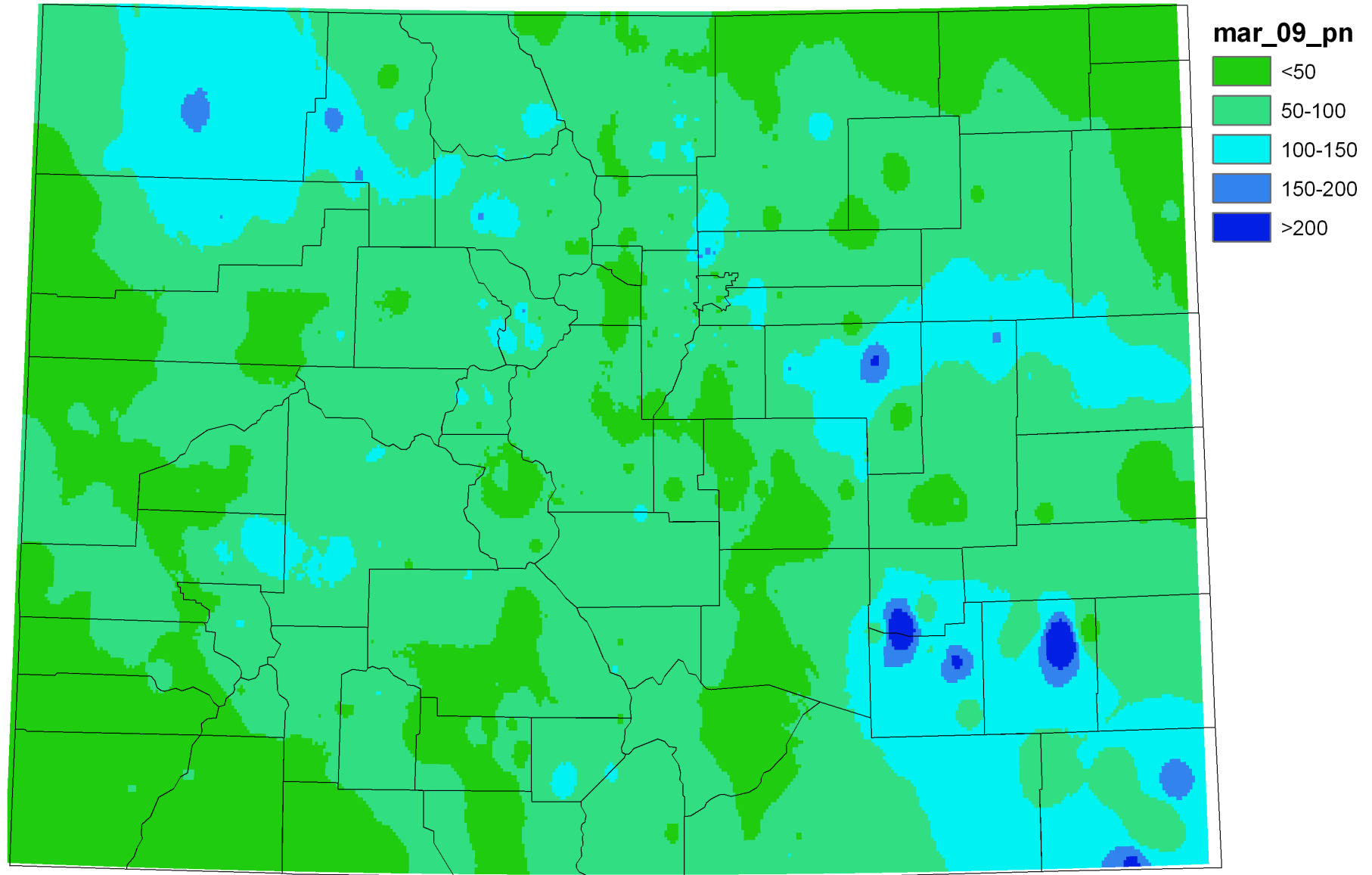
March 2009 Precipitation



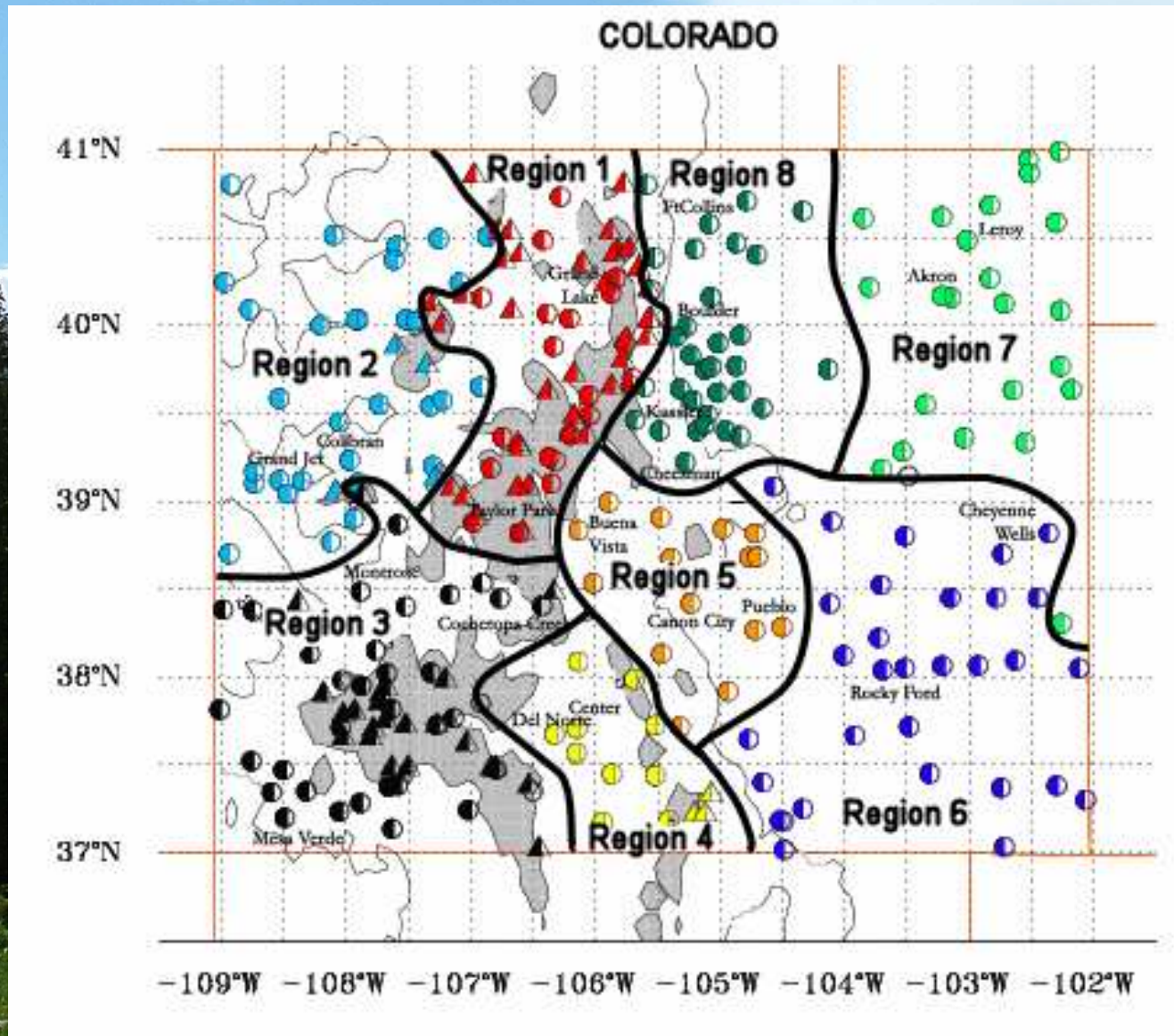
March 2009 Precipitation



March 2009 Precipitation as Percent of Normal

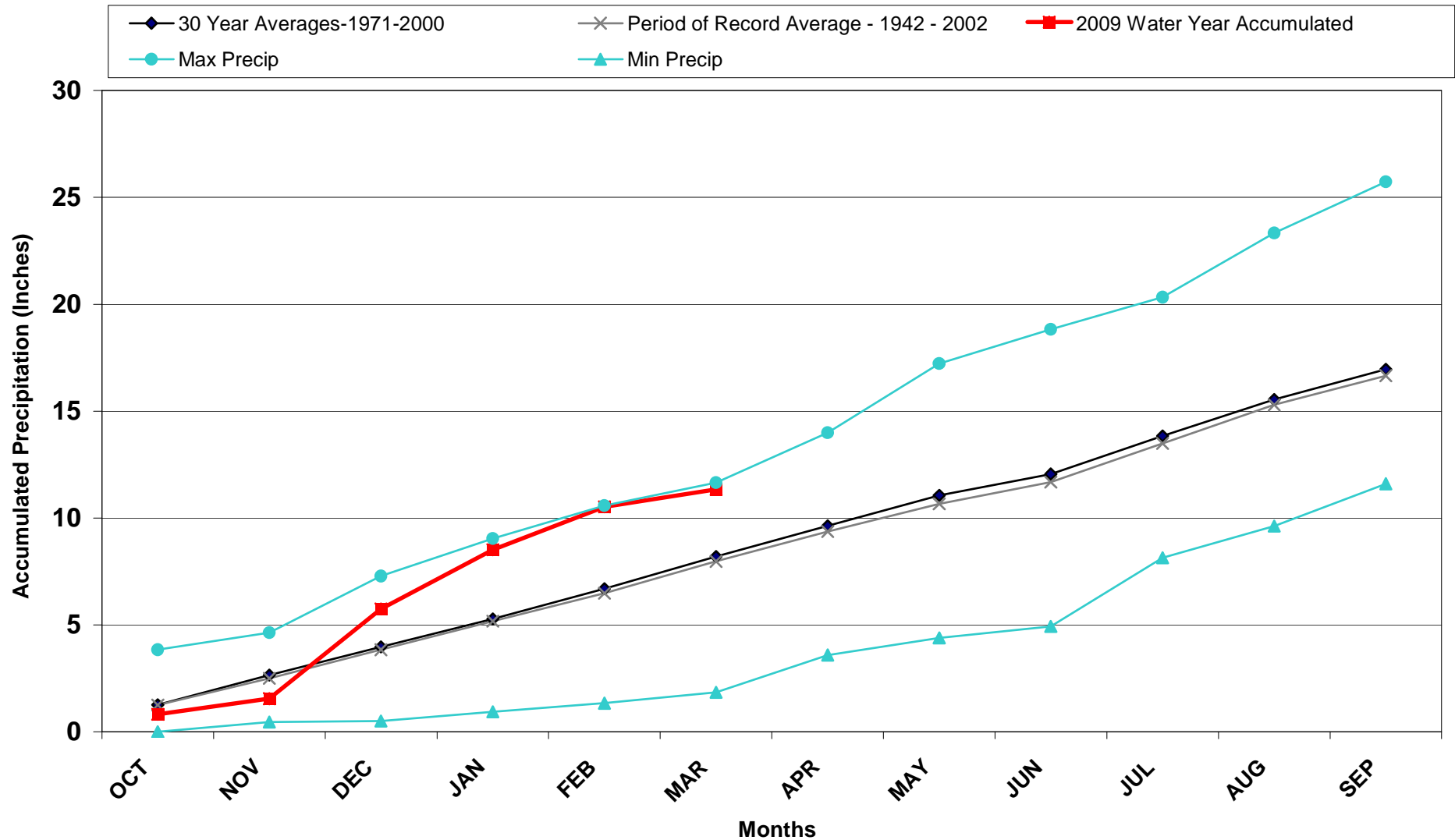


Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO



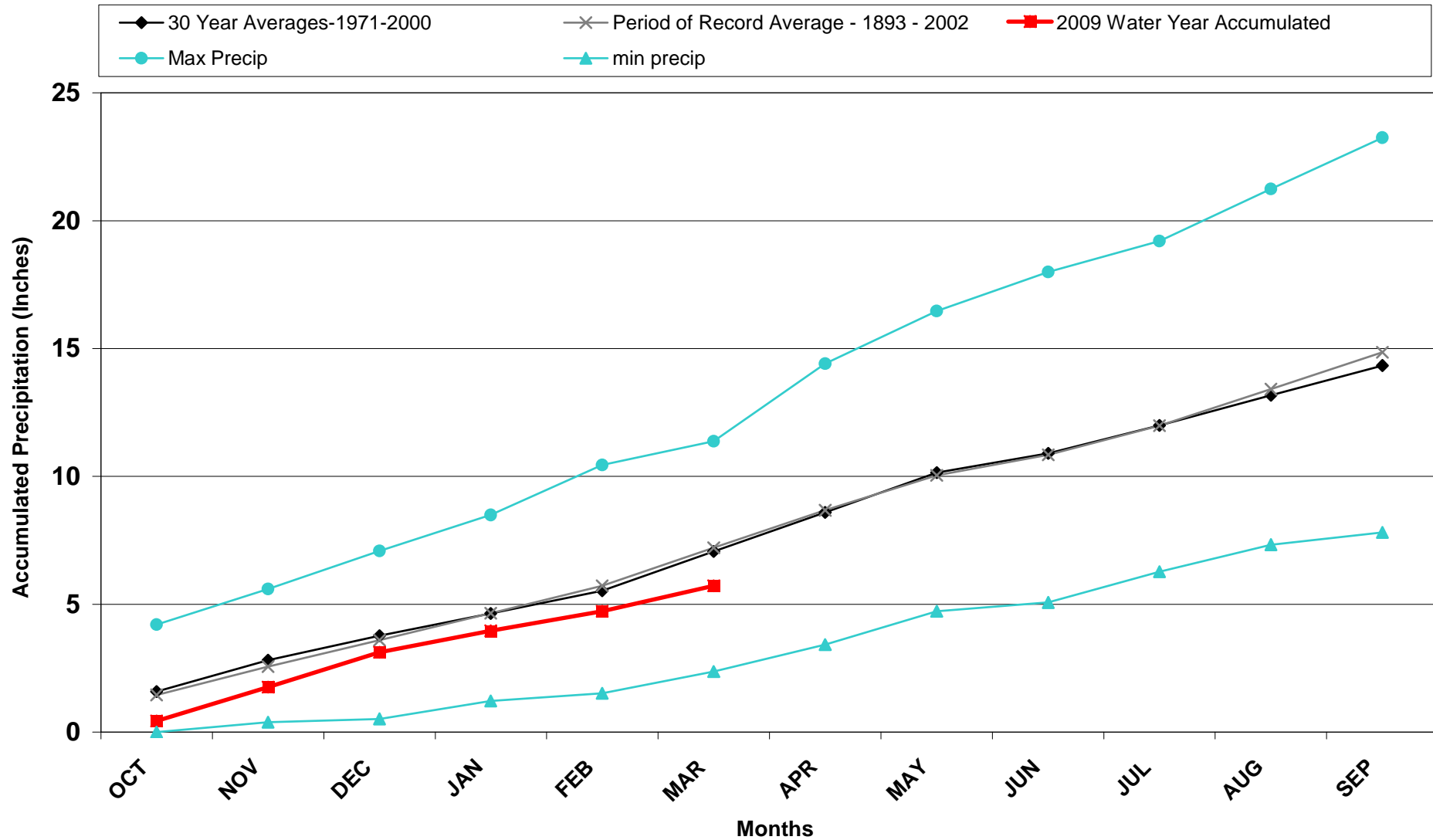
Division 1 – Taylor Park

Taylor Park 2009 Water Year



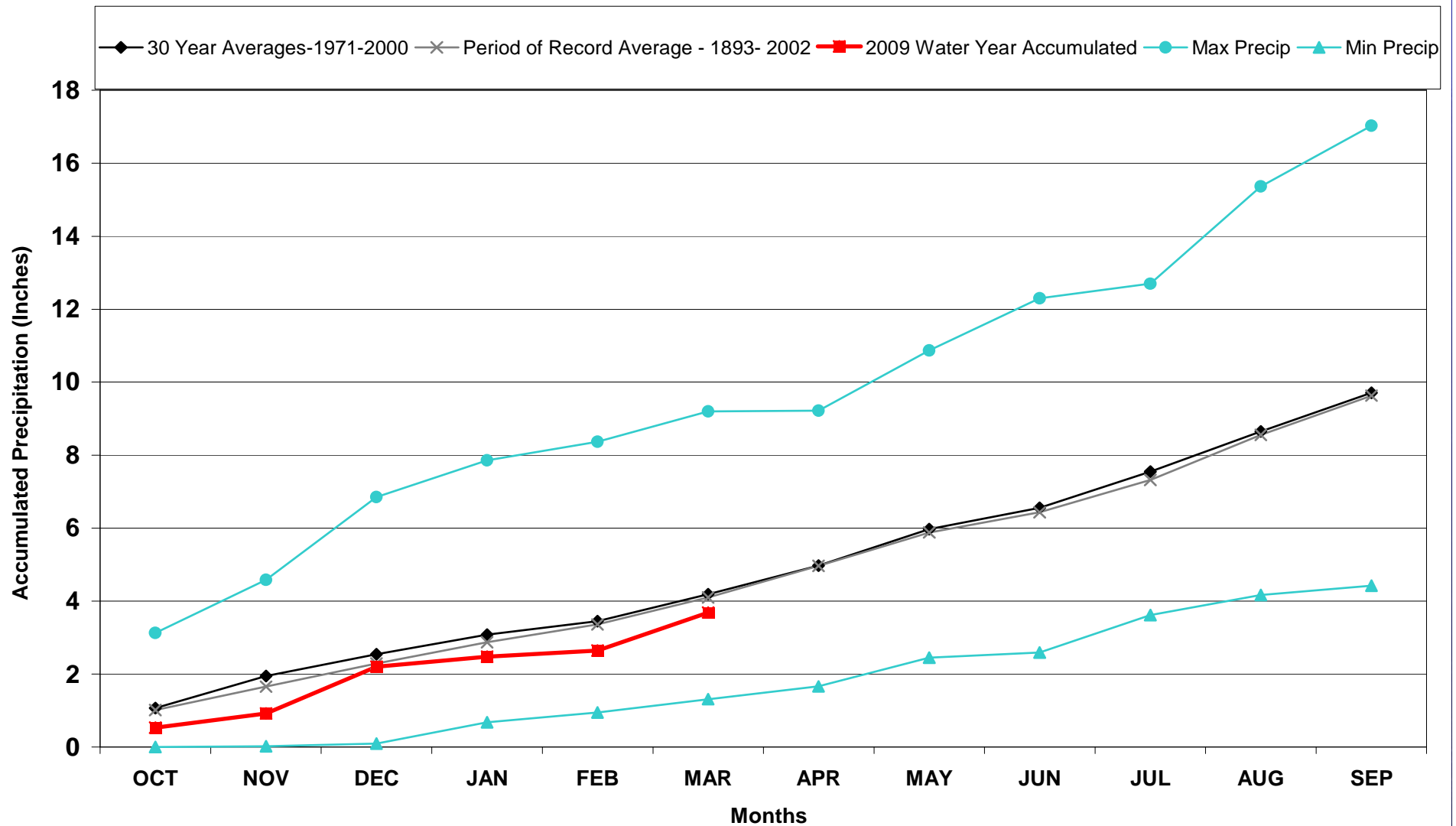
Division 2 – Collbran

Collbran 2SW 2009 Water Year



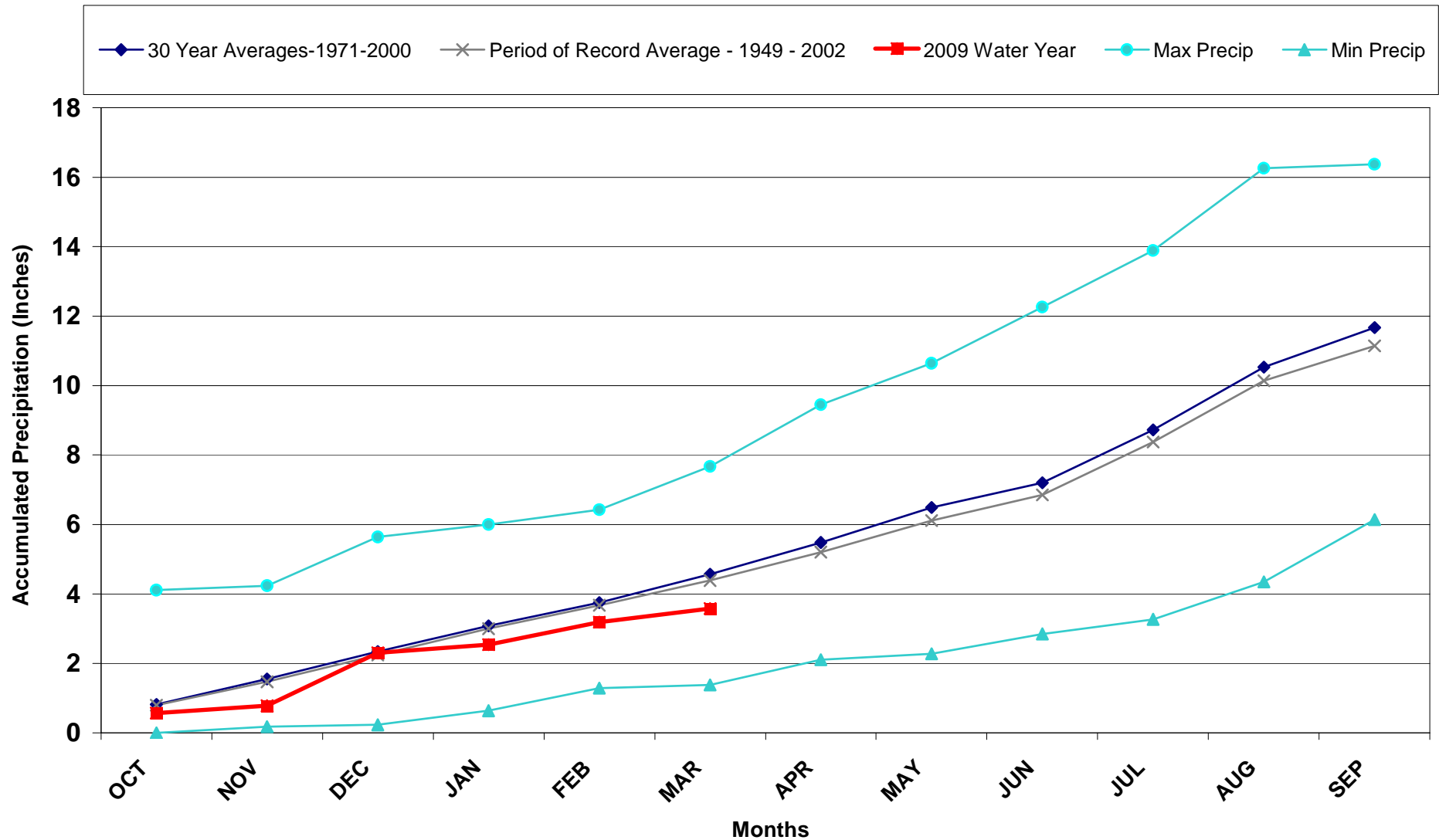
Division 3 – Montrose

Montrose #2 2009 Water Year



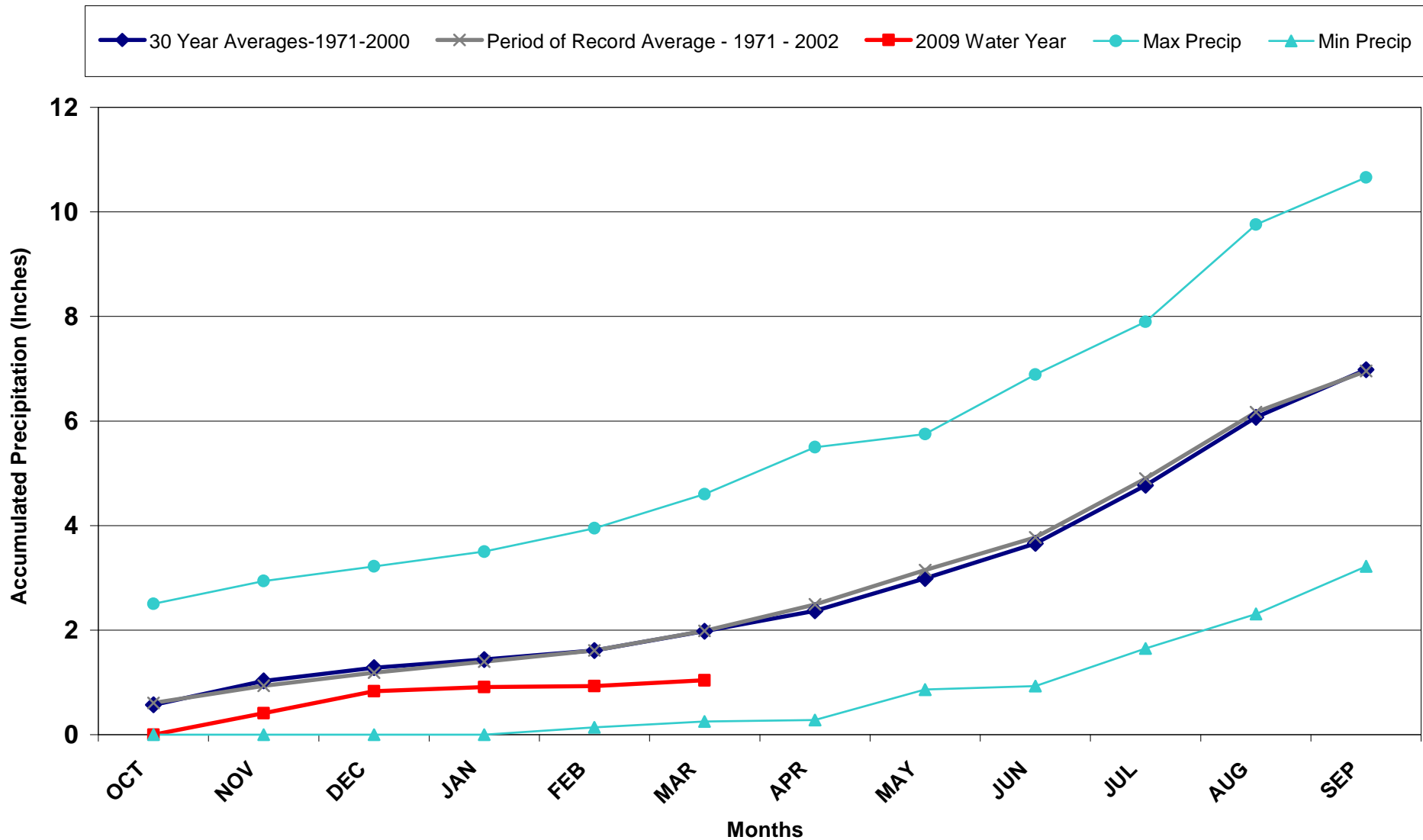
Division 3 – Cochetopa Creek

Cochetopa Creek 2009 Water Year



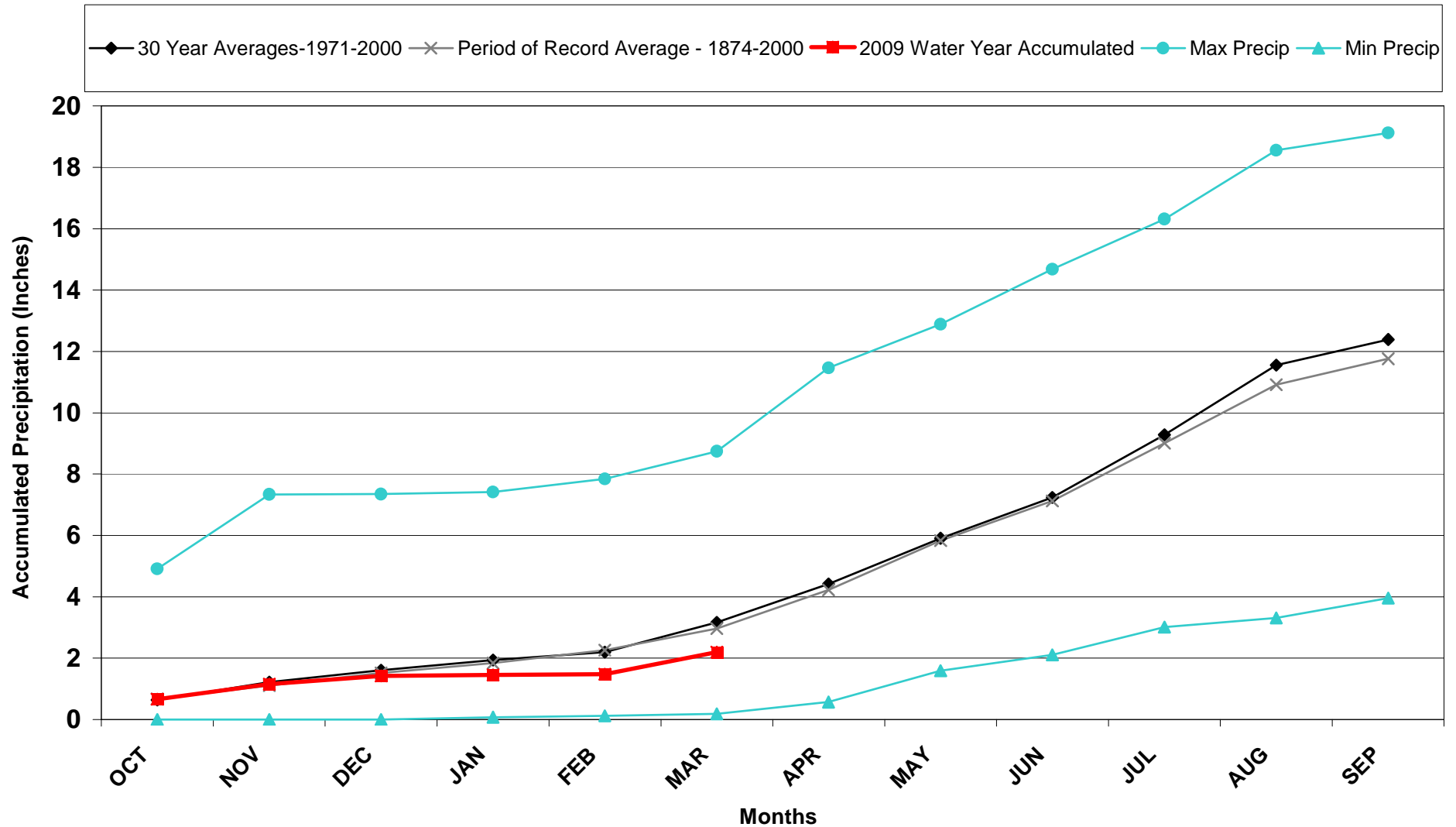
Division 4 – Center

Center 4SSW 2009 Water Year



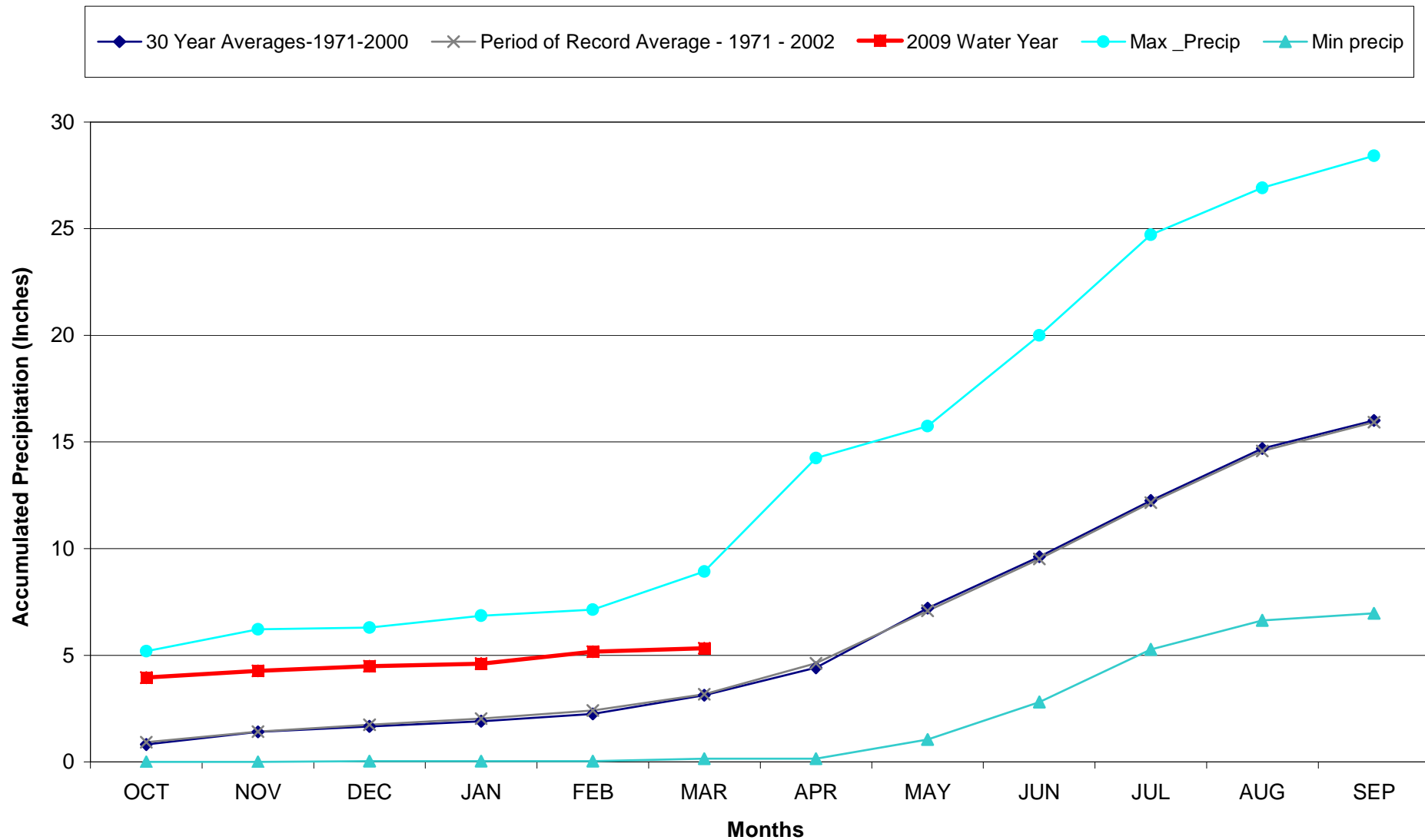
Division 5 – Pueblo

Pueblo WSO 2009 Water Year



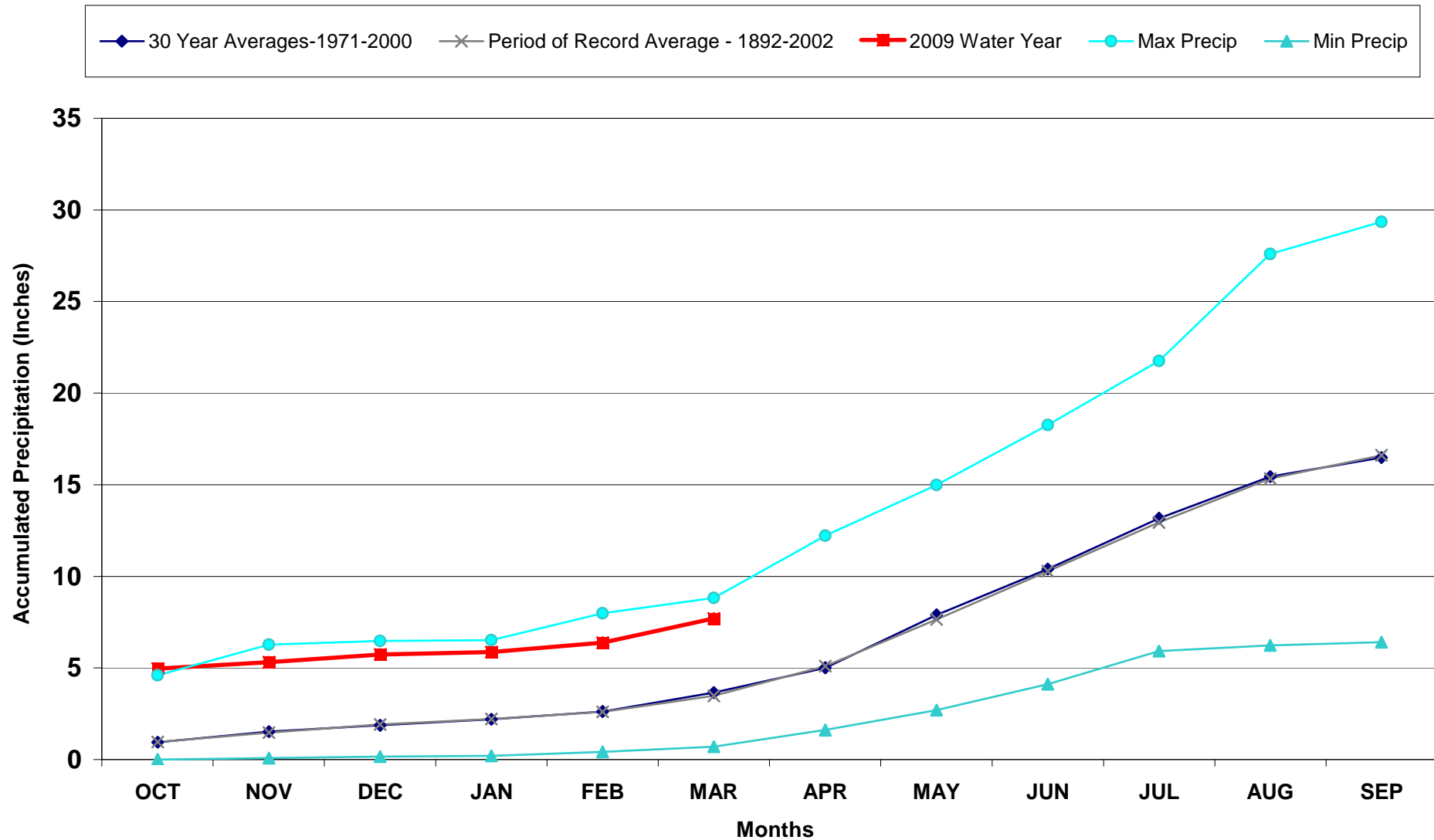
Division 6 – Cheyenne Wells

Cheyenne Wells 2009 Water Year



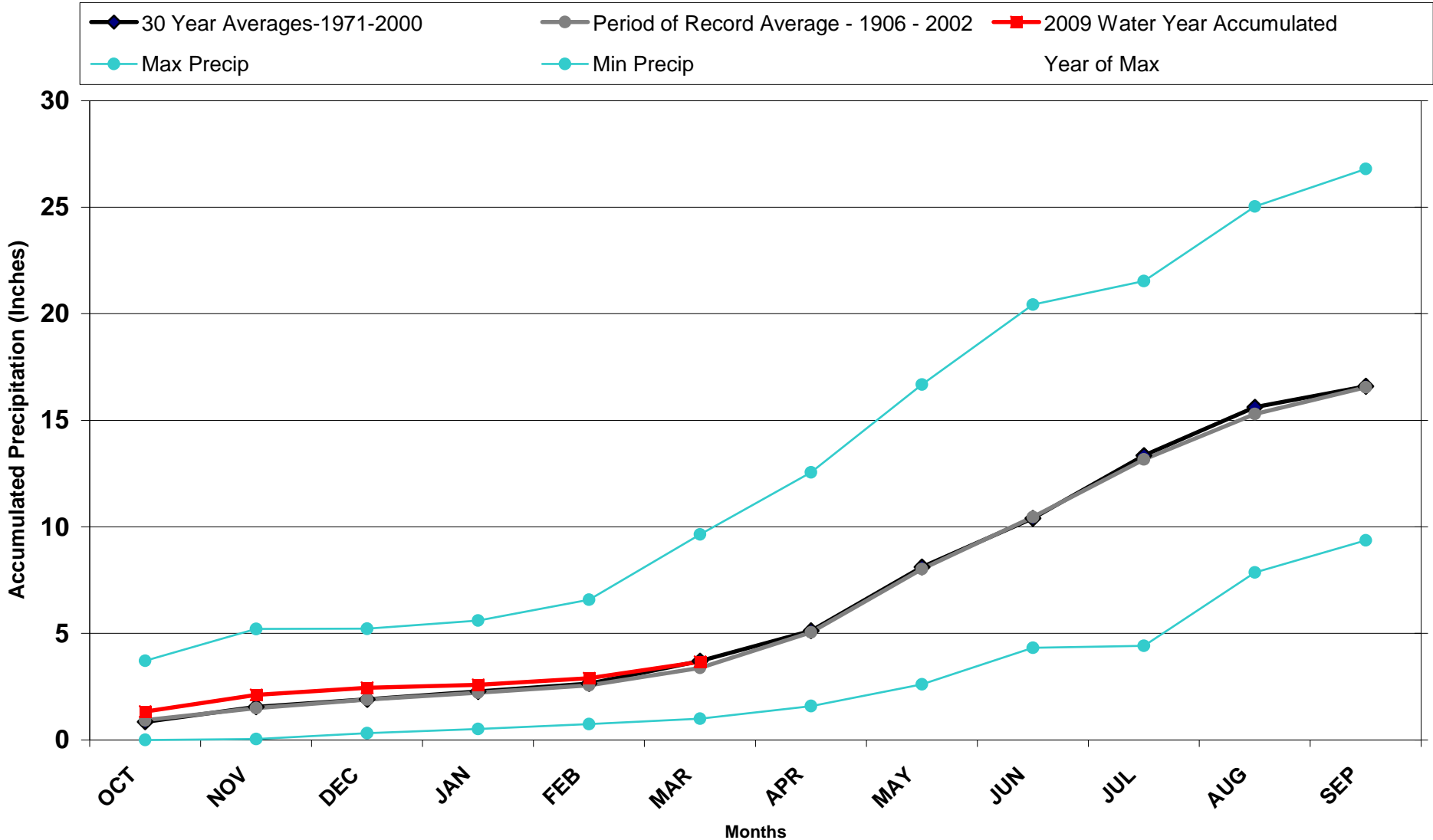
Division 6 - Burlington

Burlington 2009 Water Year



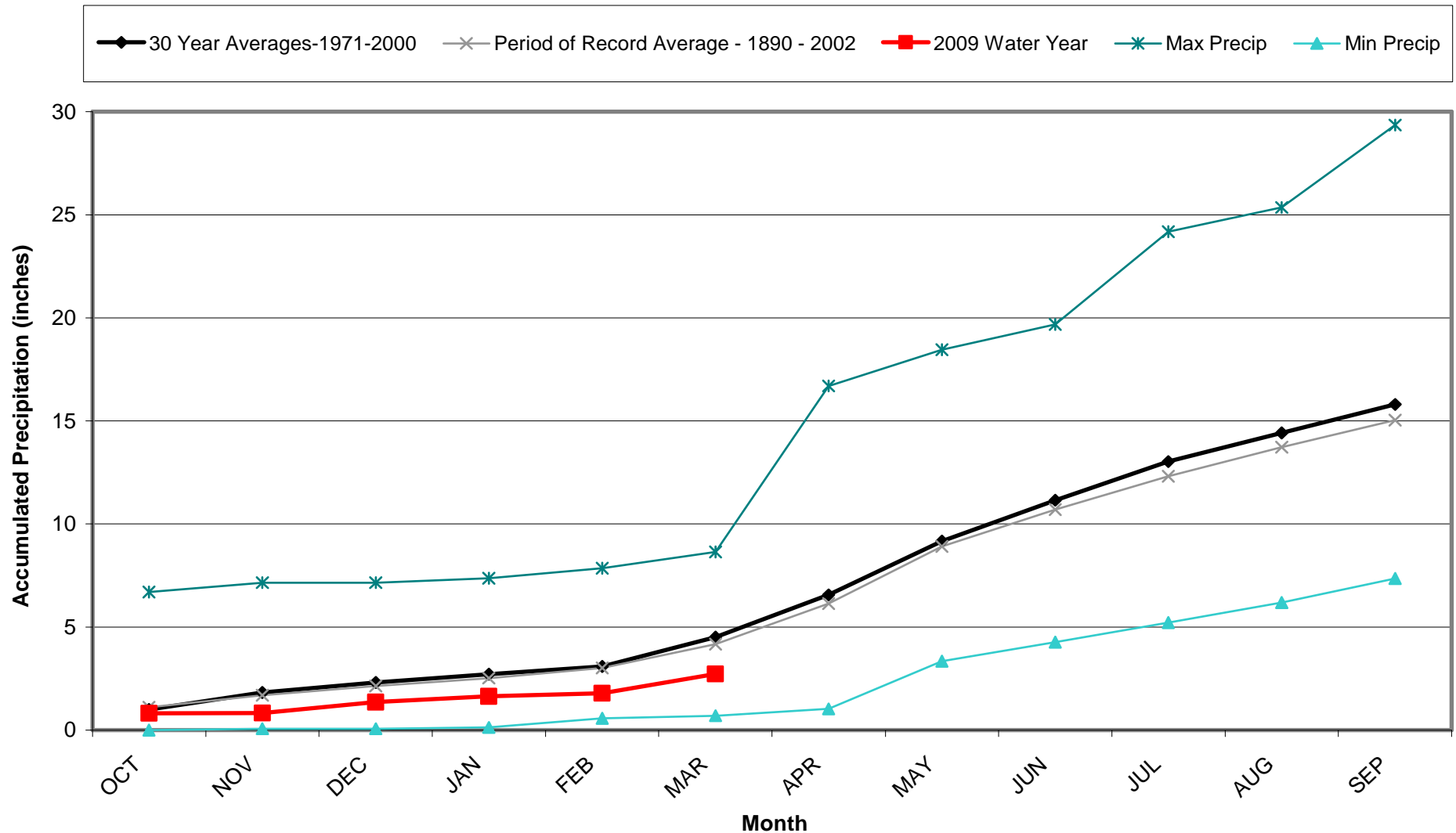
Division 7 – Akron

Akron 4E 2009 Water Year



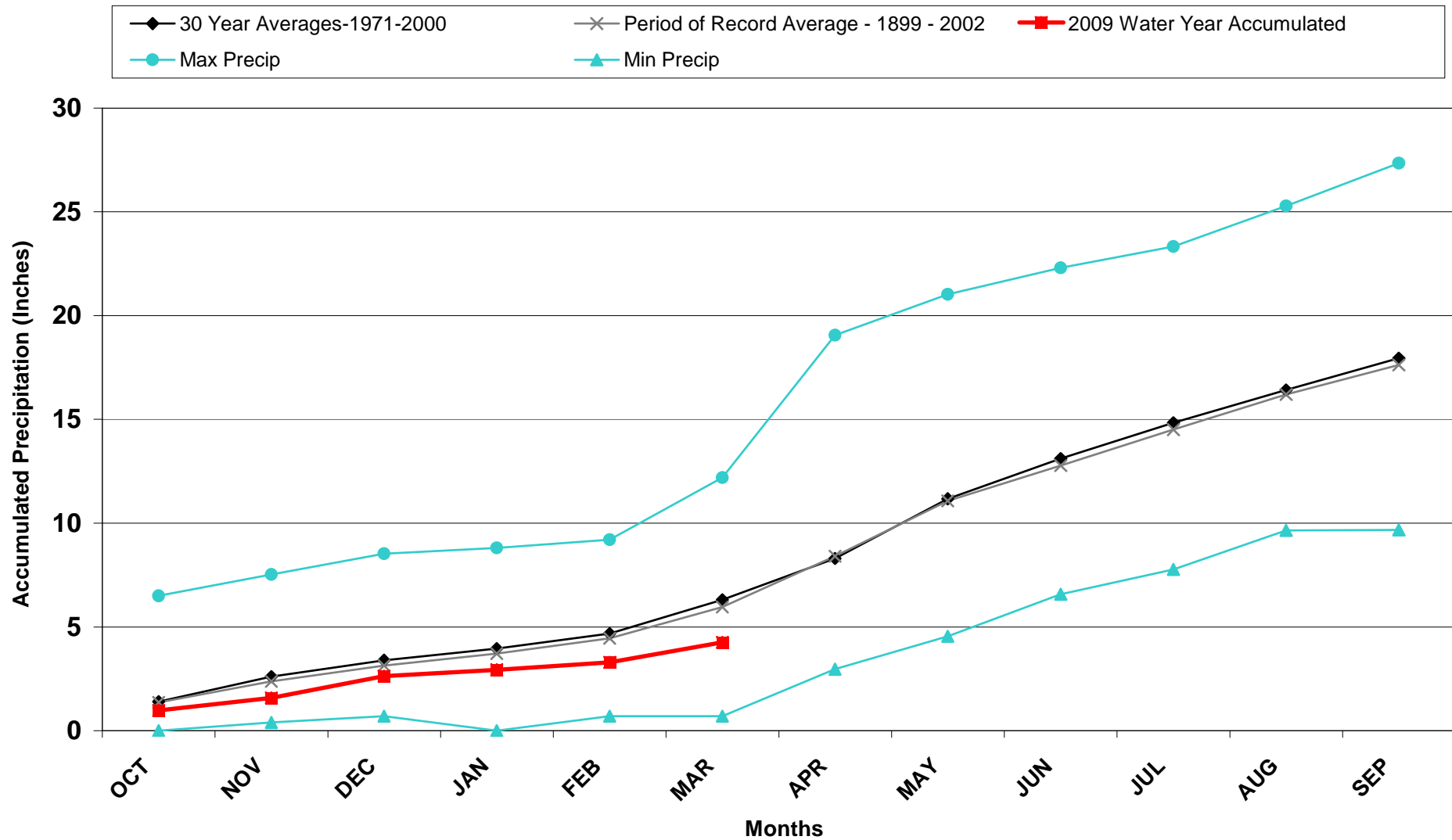
Division 8 – Fort Collins

Fort Collins 2009 Water Year



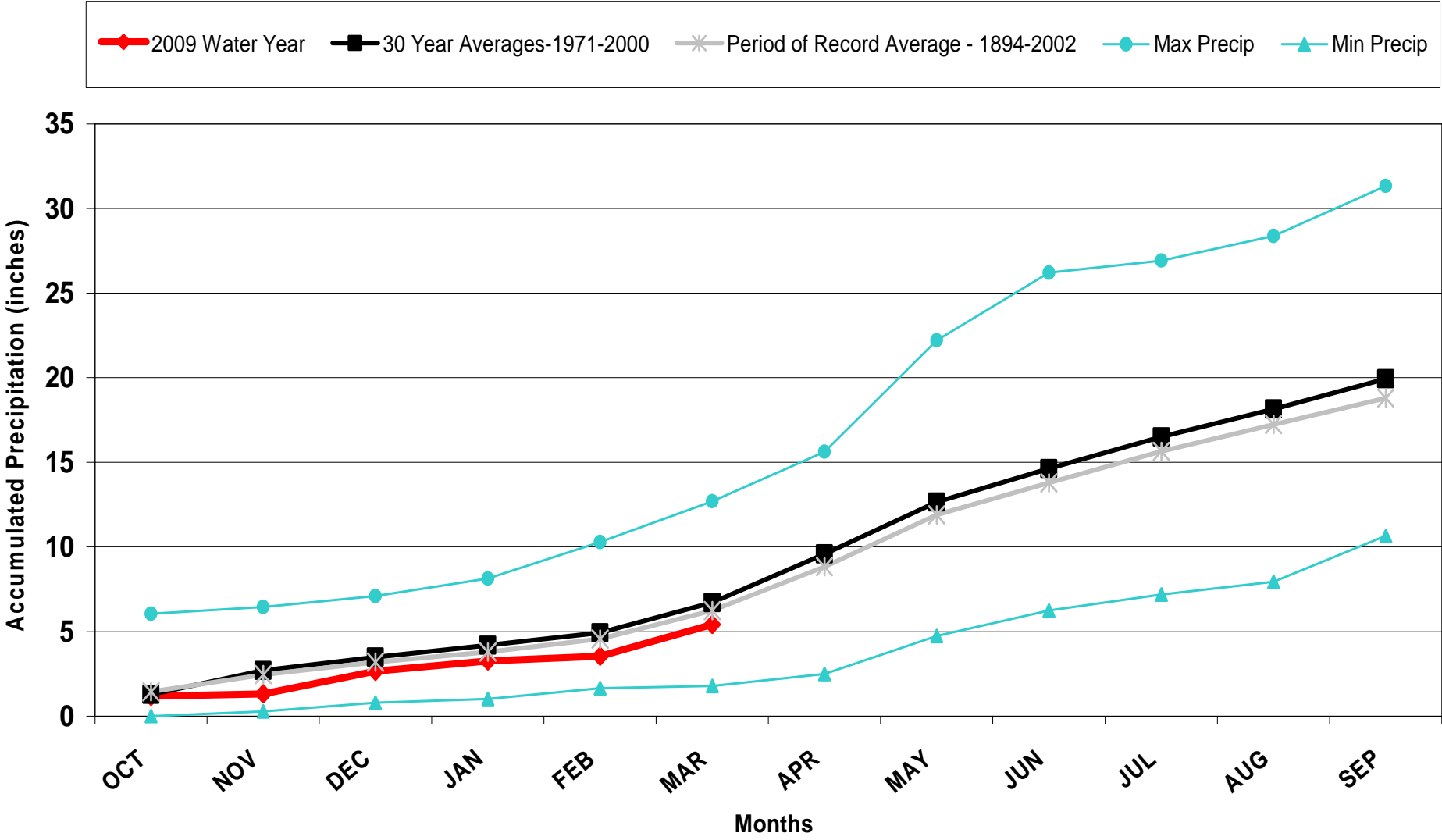
Division 8 – Kassler

Kassler 2009 Water Year

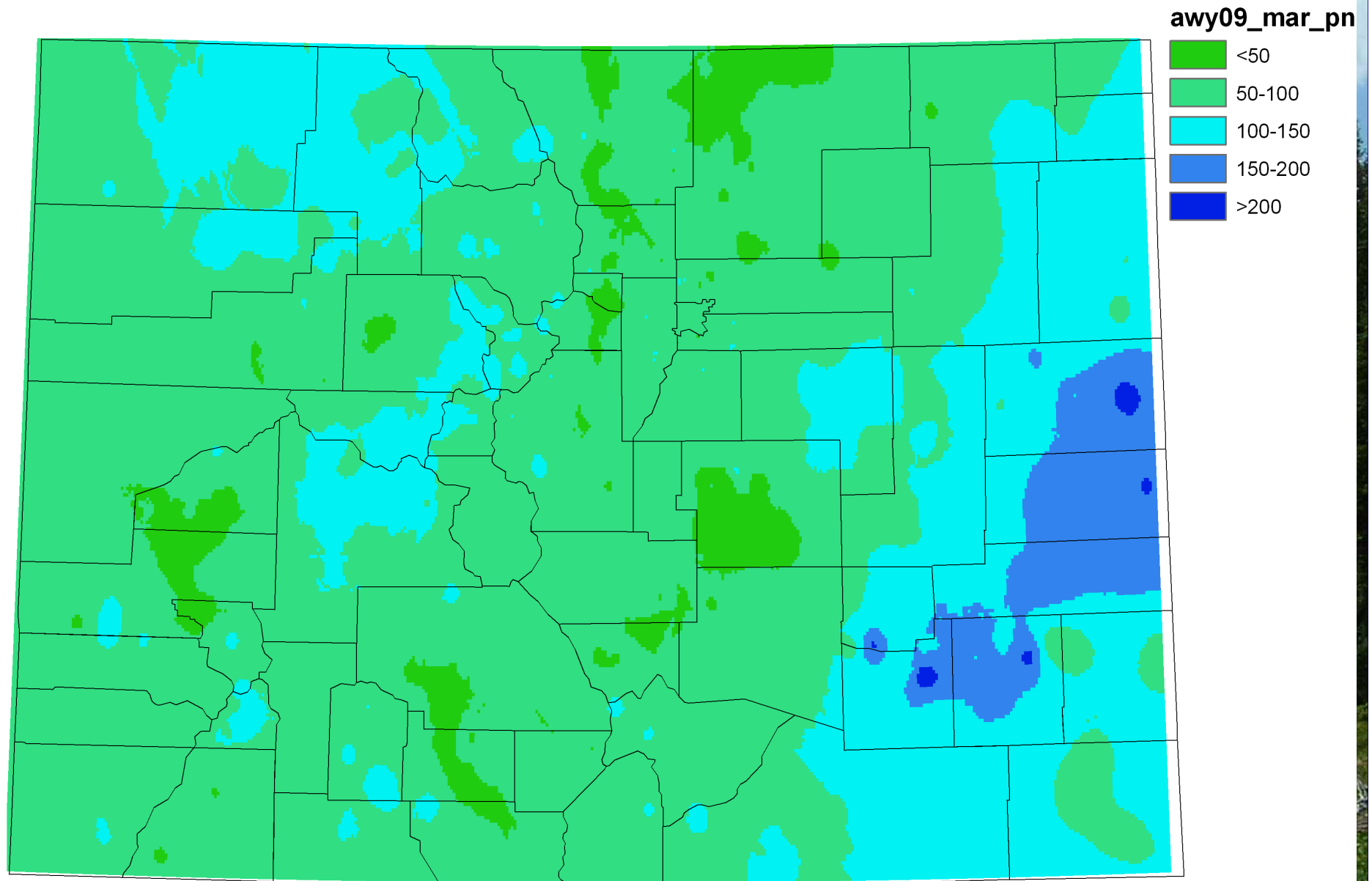


Division 8 - Boulder

Boulder 2009 Water Year

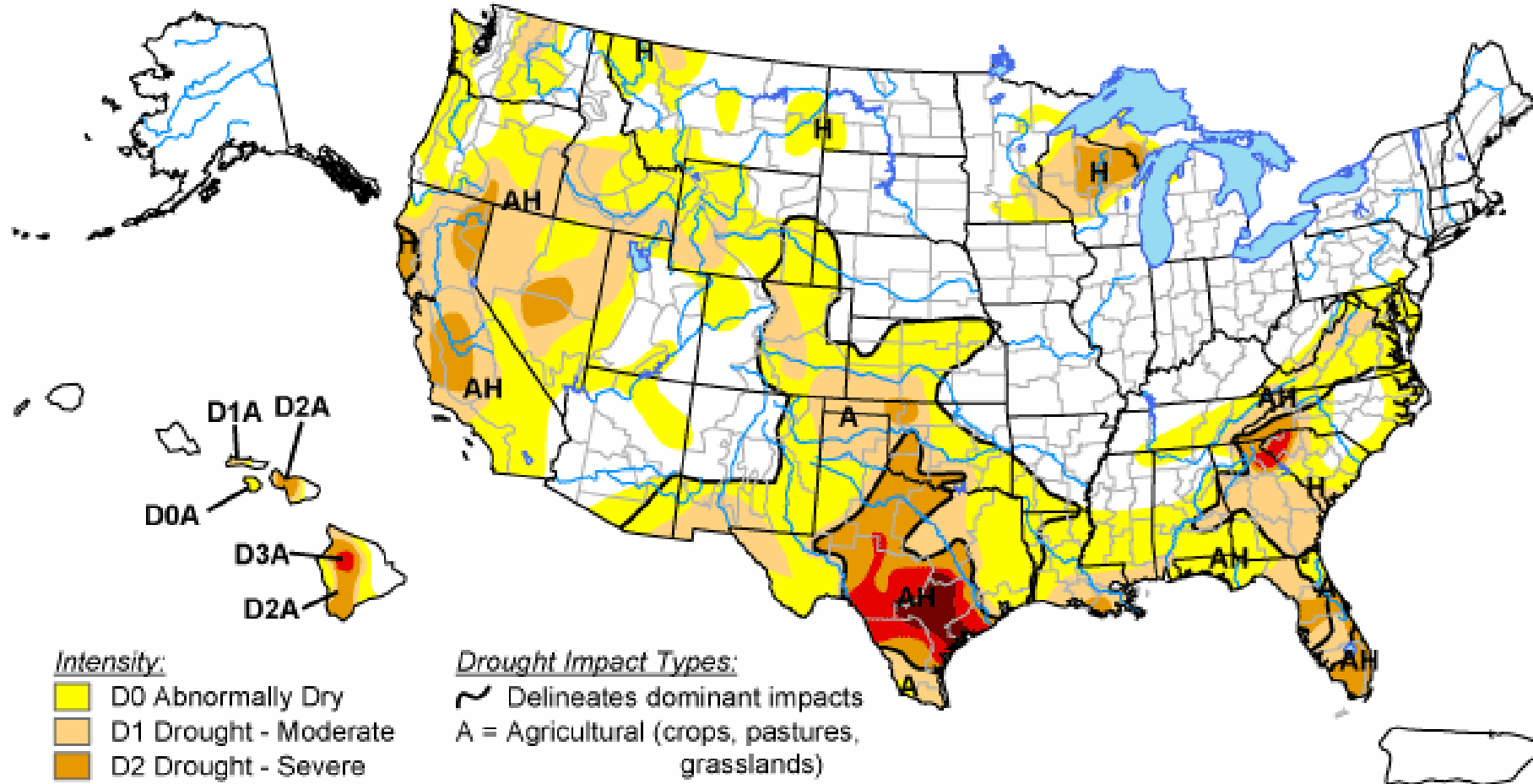


Water Year 2009 Precipitation as Percent of Normal Oct 08 - Mar 09








U.S. Drought Monitor


March 17, 2009
Valid 8 a.m. EDT



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.

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



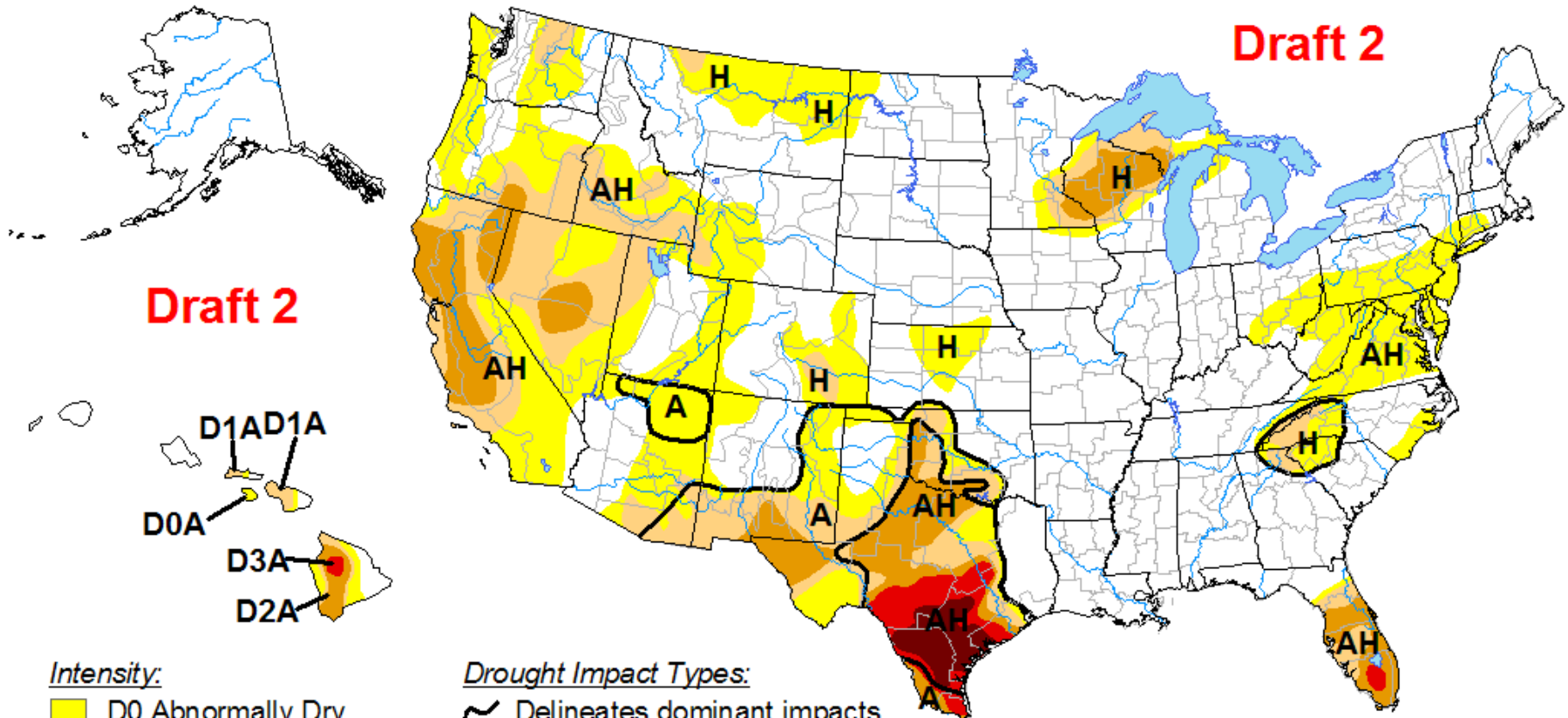
Released Thursday, March 19, 2009

Author: Laura Edwards, Western Regional Climate Center

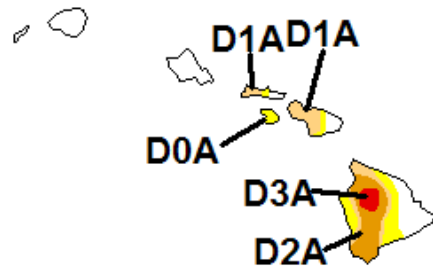
U.S. Drought Monitor

April 21, 2009
Valid 8 a.m. EDT

Draft 2



Draft 2



Intensity:

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

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Draft 2

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



Released Thursday, April 23, 2009

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

Author: Richard Heim/Liz Love-Brotak, NOAA/NESDIS/NCDC

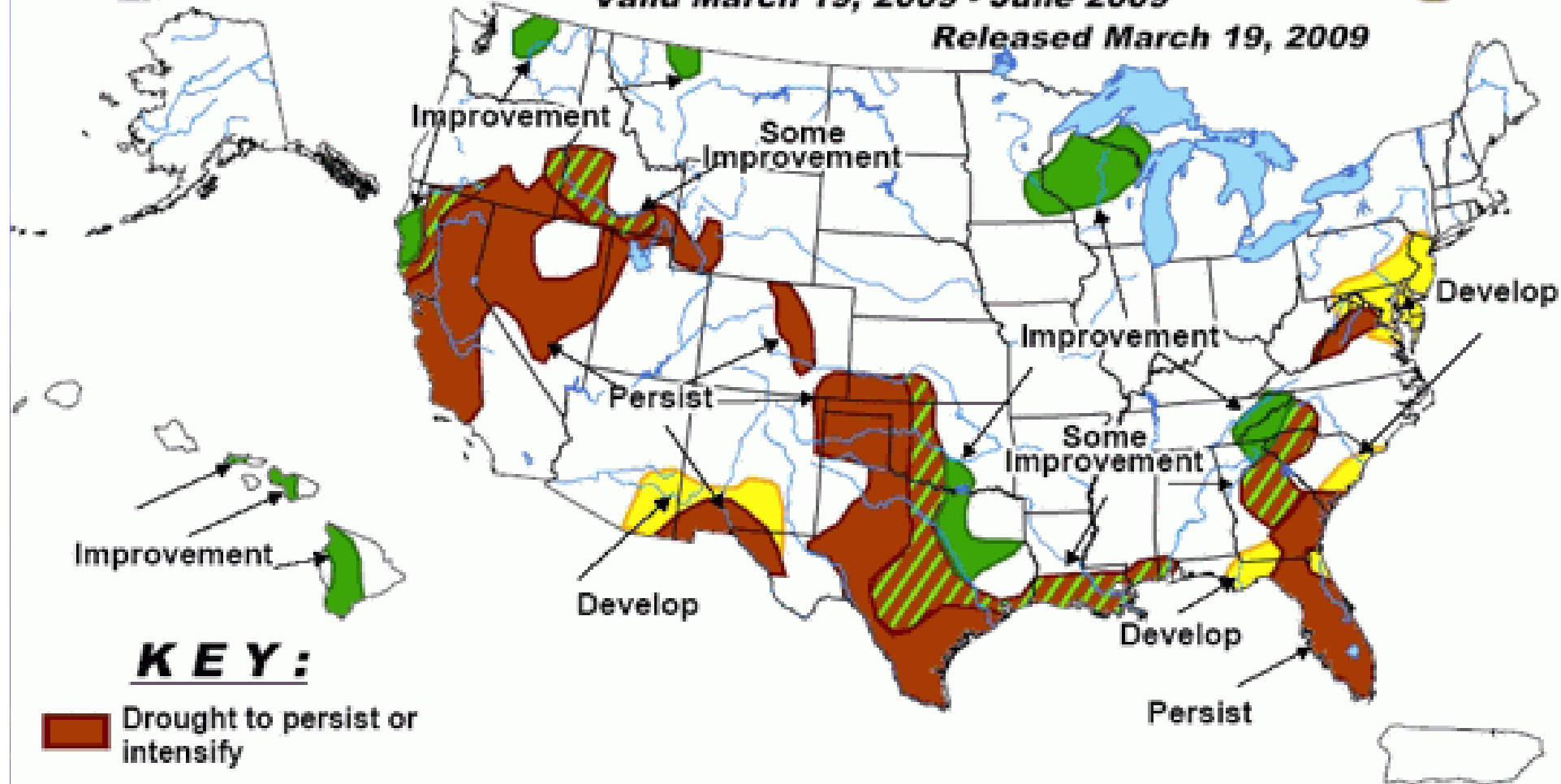


U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid March 19, 2009 - June 2009

Released March 19, 2009



KEY:

-  Drought to persist or intensify
-  Drought ongoing, some improvement
-  Drought likely to improve, impacts ease
-  Drought development likely

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events – such as individual storms – cannot be accurately forecast more than a few days in advance. Use caution for applications – such as crops – that can be affected by such events. “Ongoing” drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.

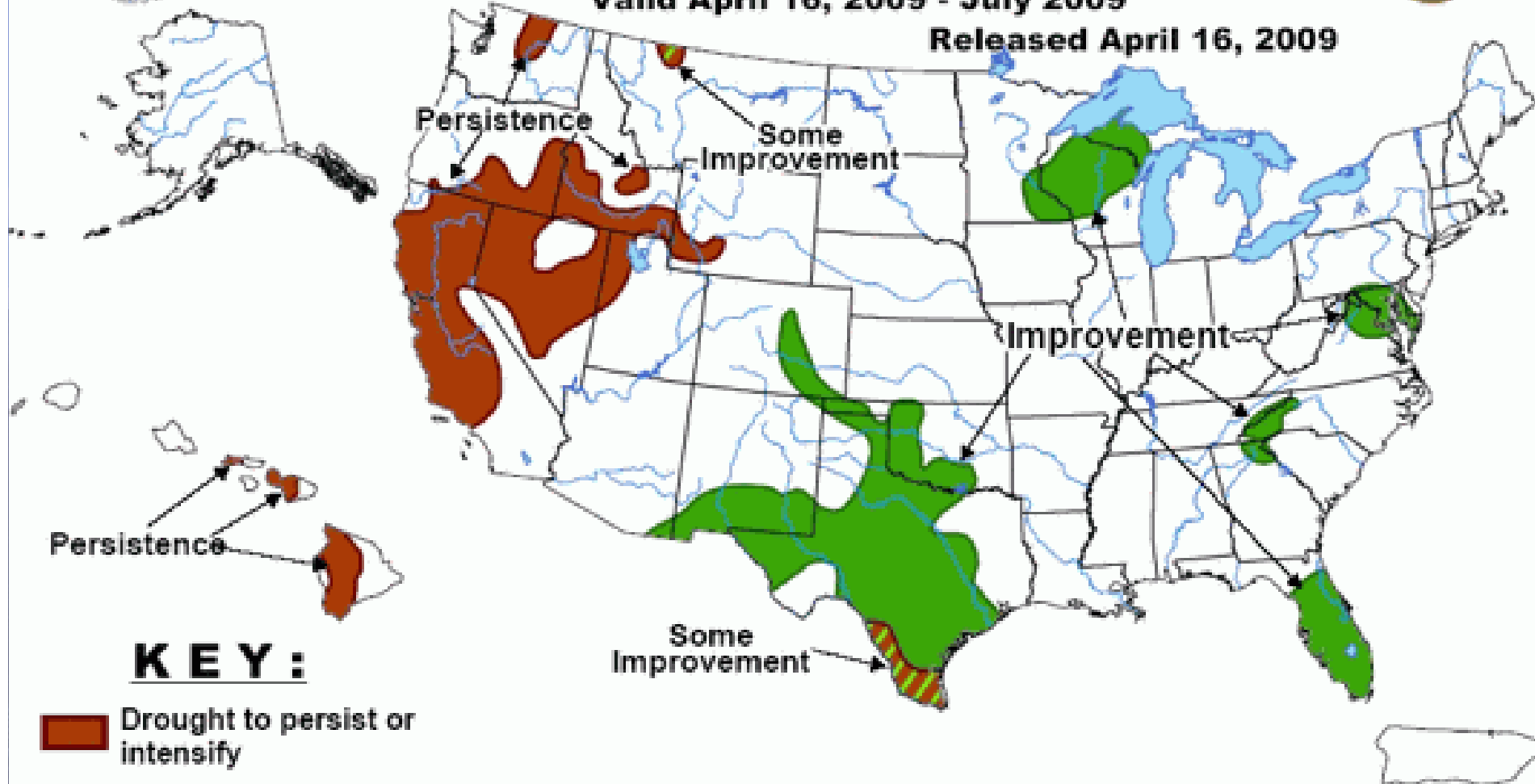


U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid April 16, 2009 - July 2009

Released April 16, 2009



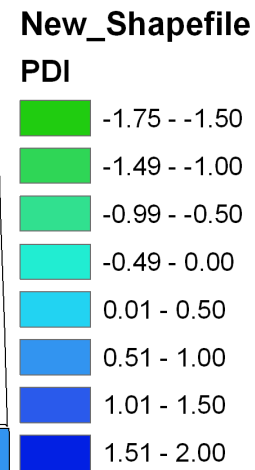
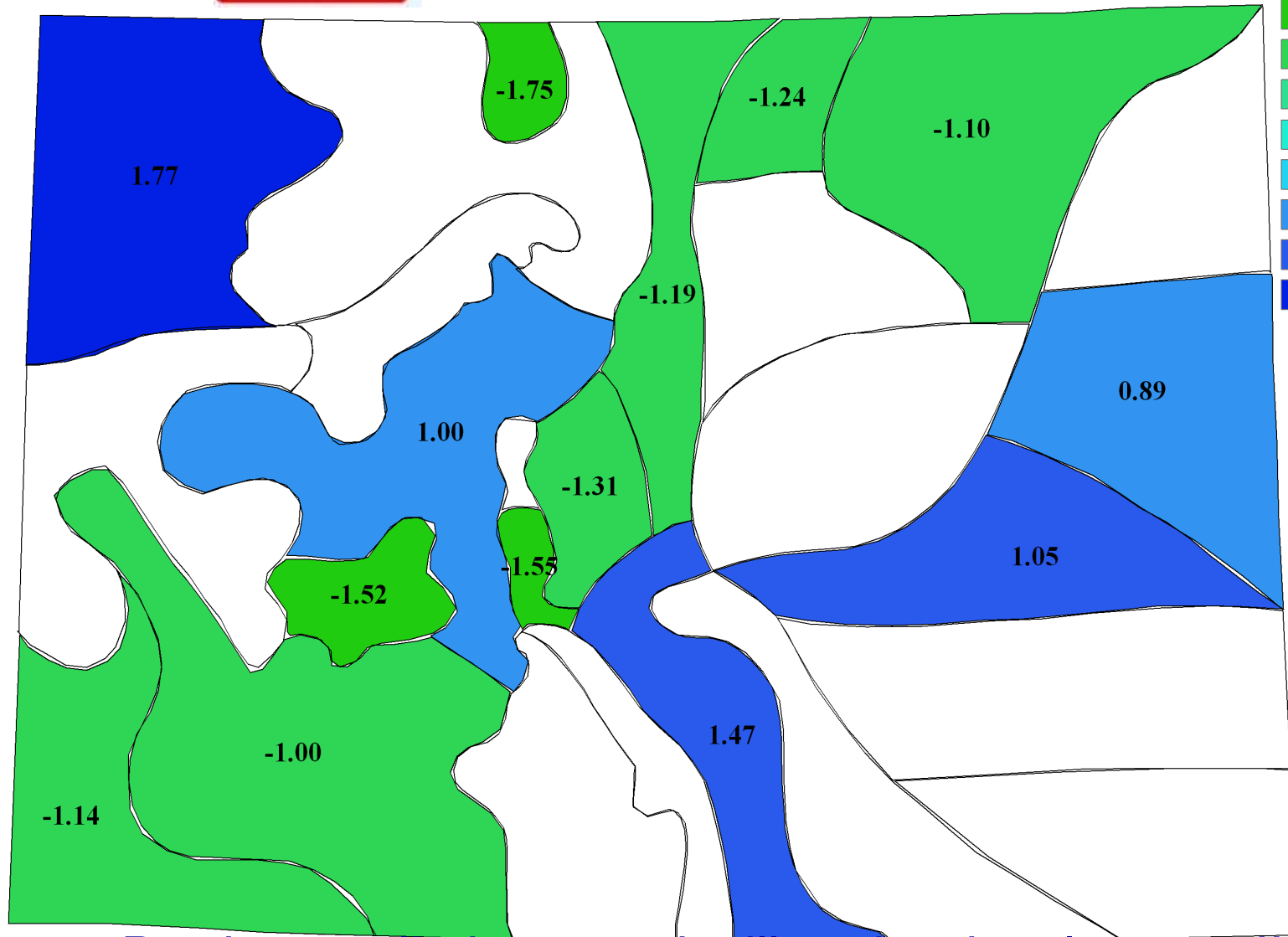
KEY:

-  Drought to persist or intensify
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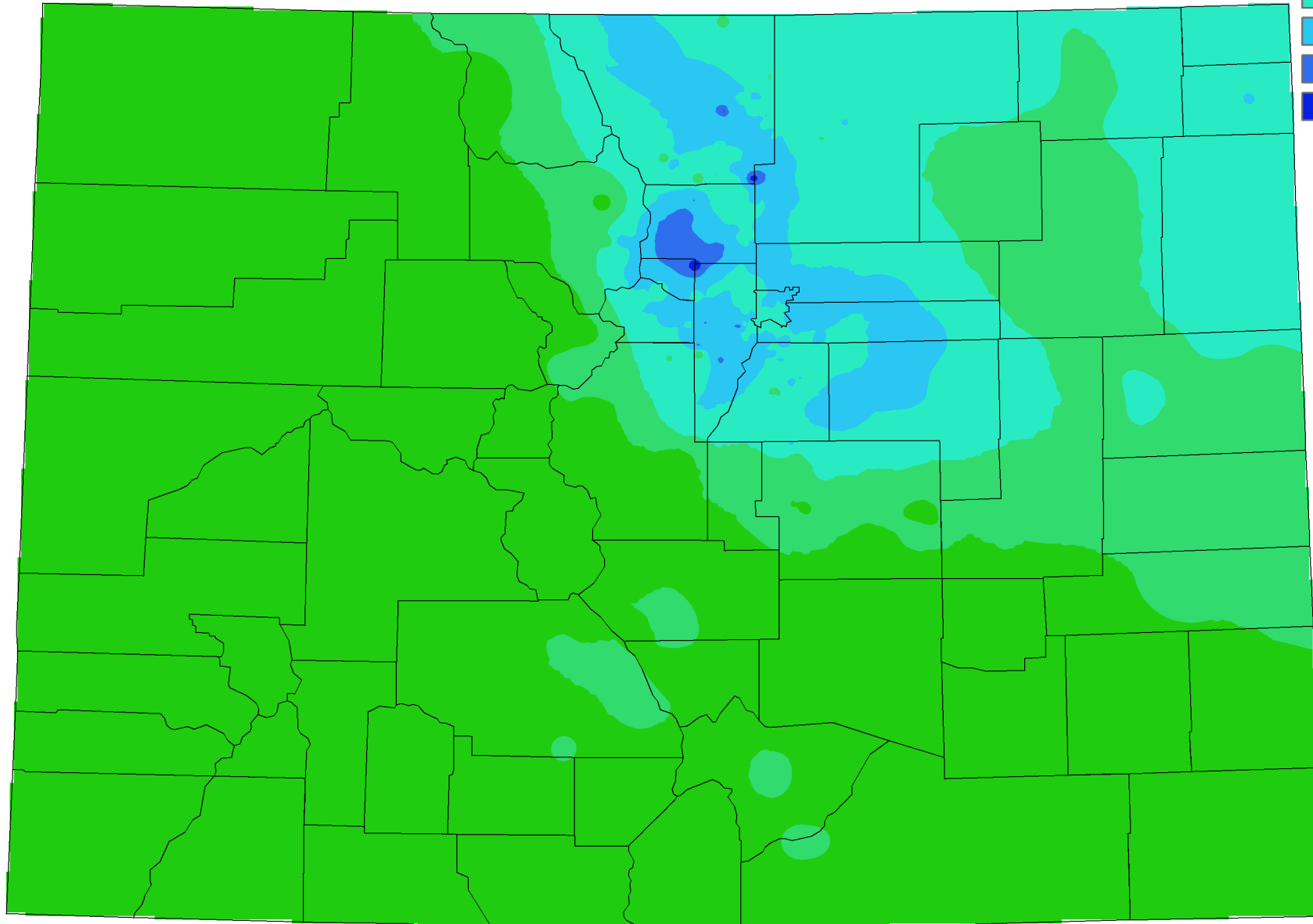
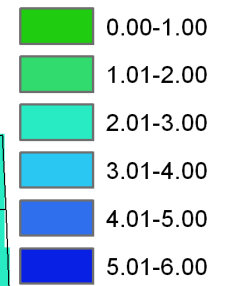
Modified Palmer Drought Index March 2009



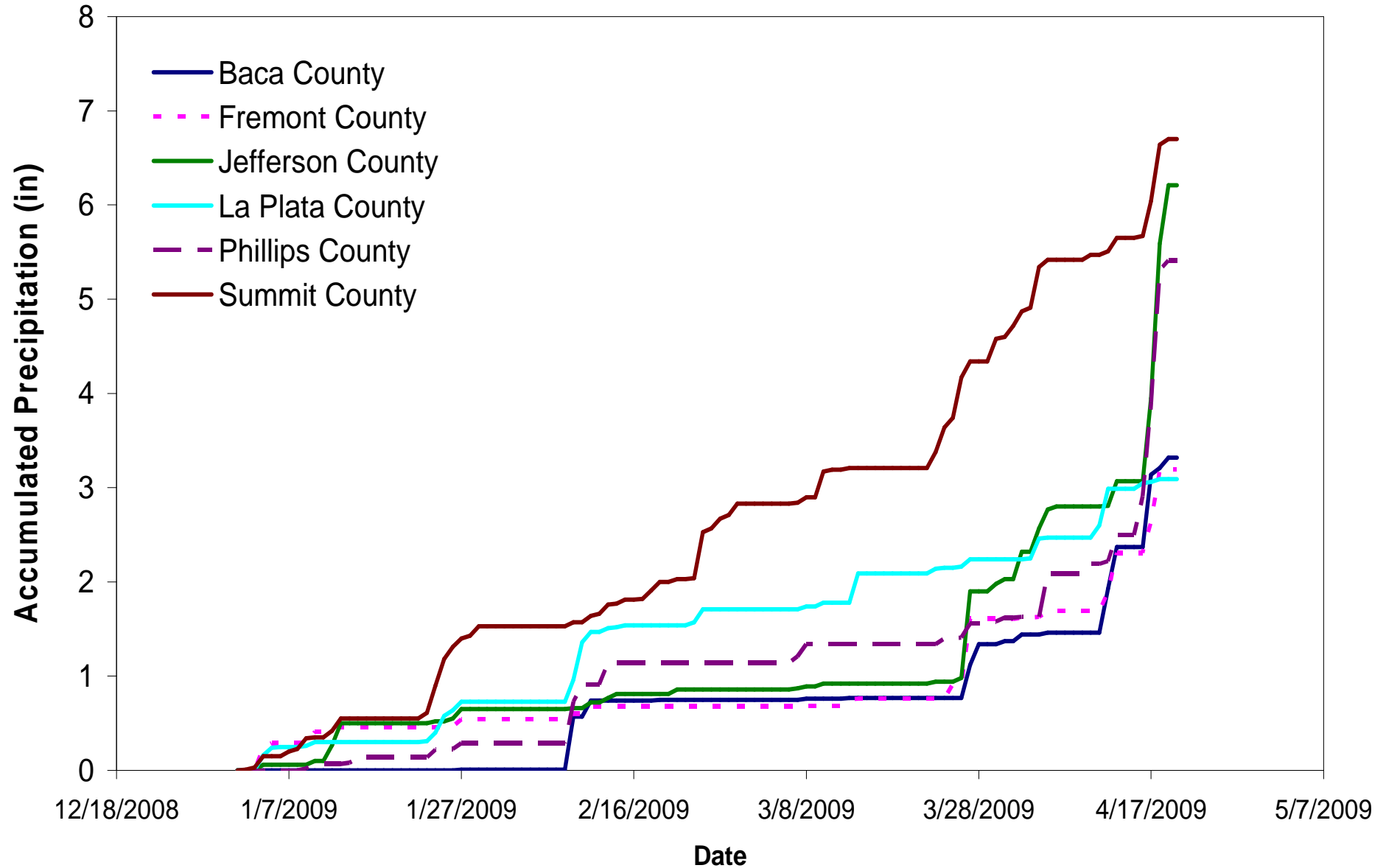
Product preliminary and still under development!!!

Cocorahs 4-day Precipitation Totals 16-19 Apr 2009

Legend



CoCoRaHS Accumulated Daily Precipitation for Selected Counties (Jan 1 - Apr 20, 2009)



March Summary



Colorado Climate Center

Data and Power Point Presentations
available for downloading

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

- click on “Drought Resources”
- then click on “Presentations”

**Colorado
State
University**
Knowledge to Go Places

