

Climate Update

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Colorado Climate Center

Atmospheric Science Department
Colorado State University

Presented to
Water Availability Task Force
February 25, 2010
Denver, CO

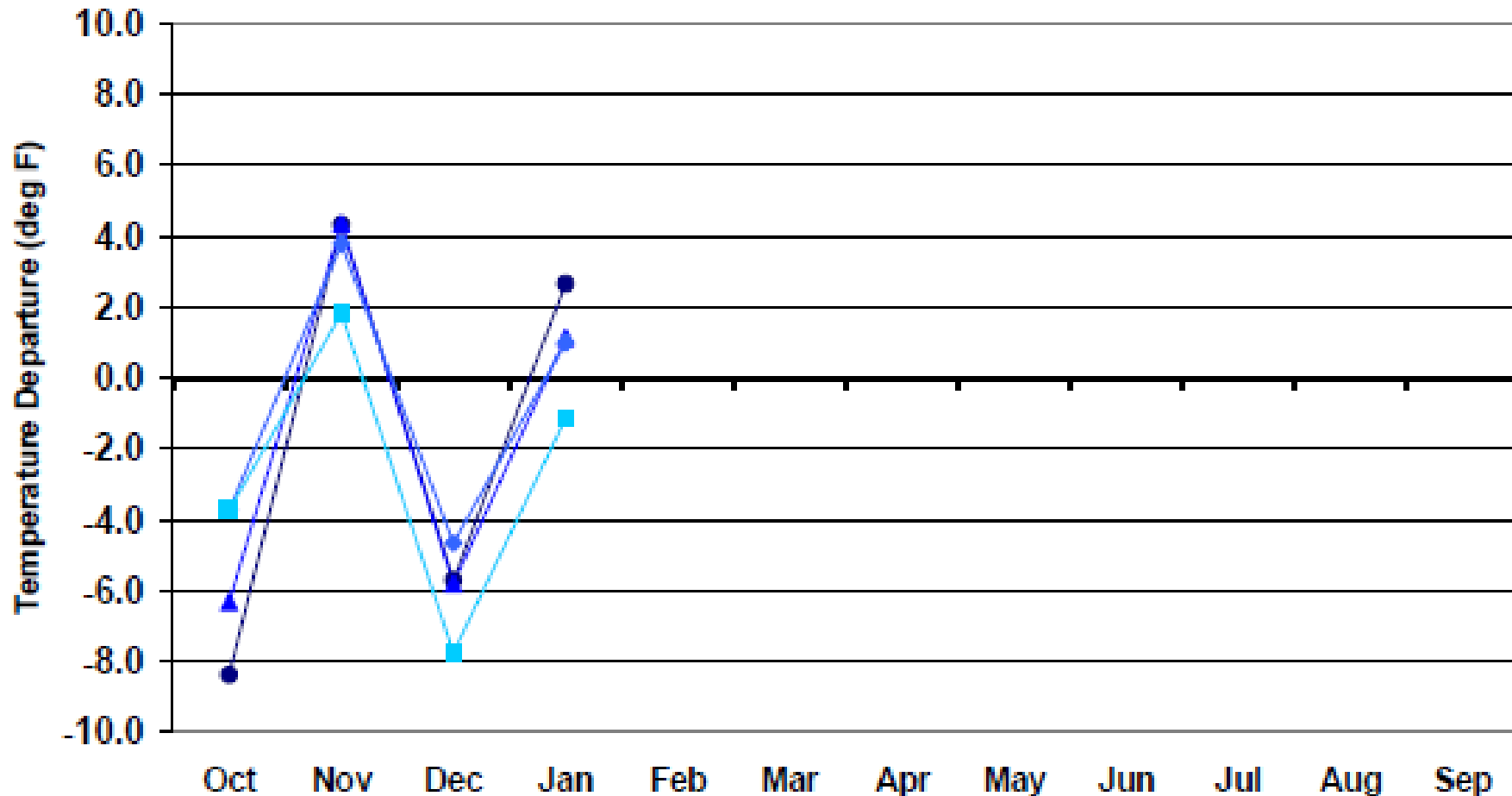
Prepared by Wendy Ryan



**Colorado
State
University**
Knowledge to Go Places

Water Year 2010 Temperature Departures

Water Year 2010



● Eastern Plains

▲ Foothills

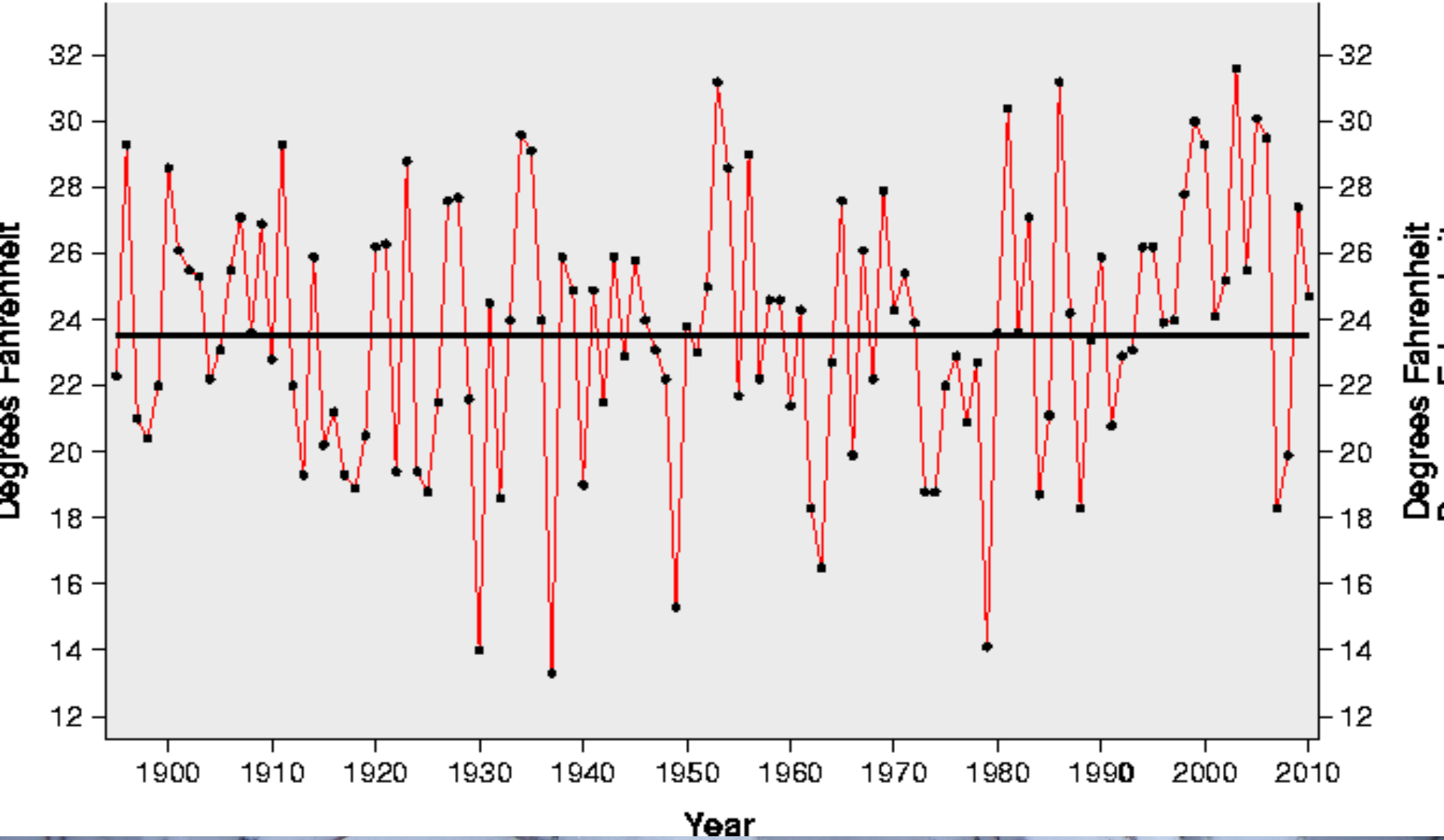
◆ Mountains

■ Western Valleys

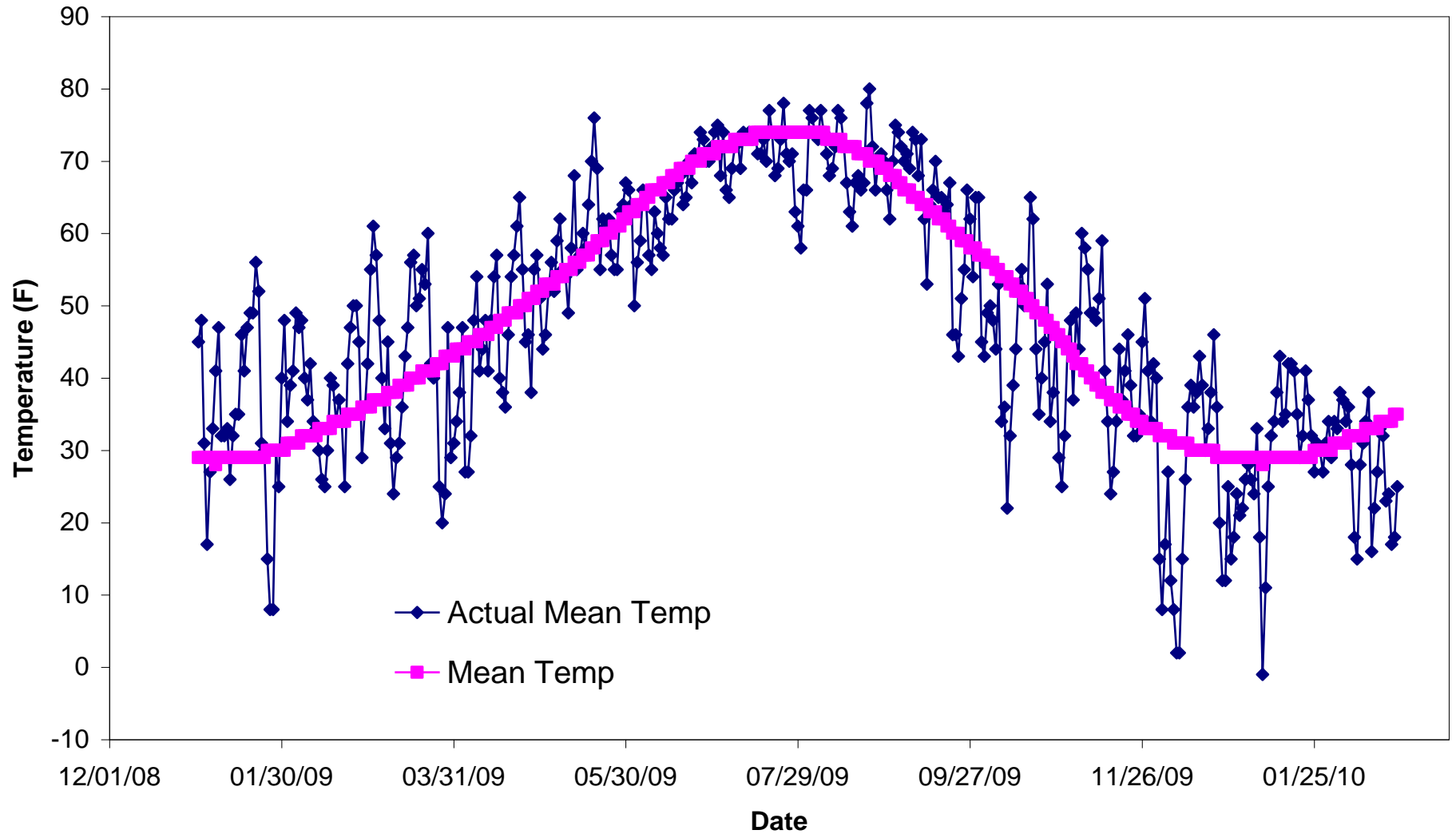
January Average Temperature History for Colorado (NCDC)

— Actual Temperature
— Average Temperature

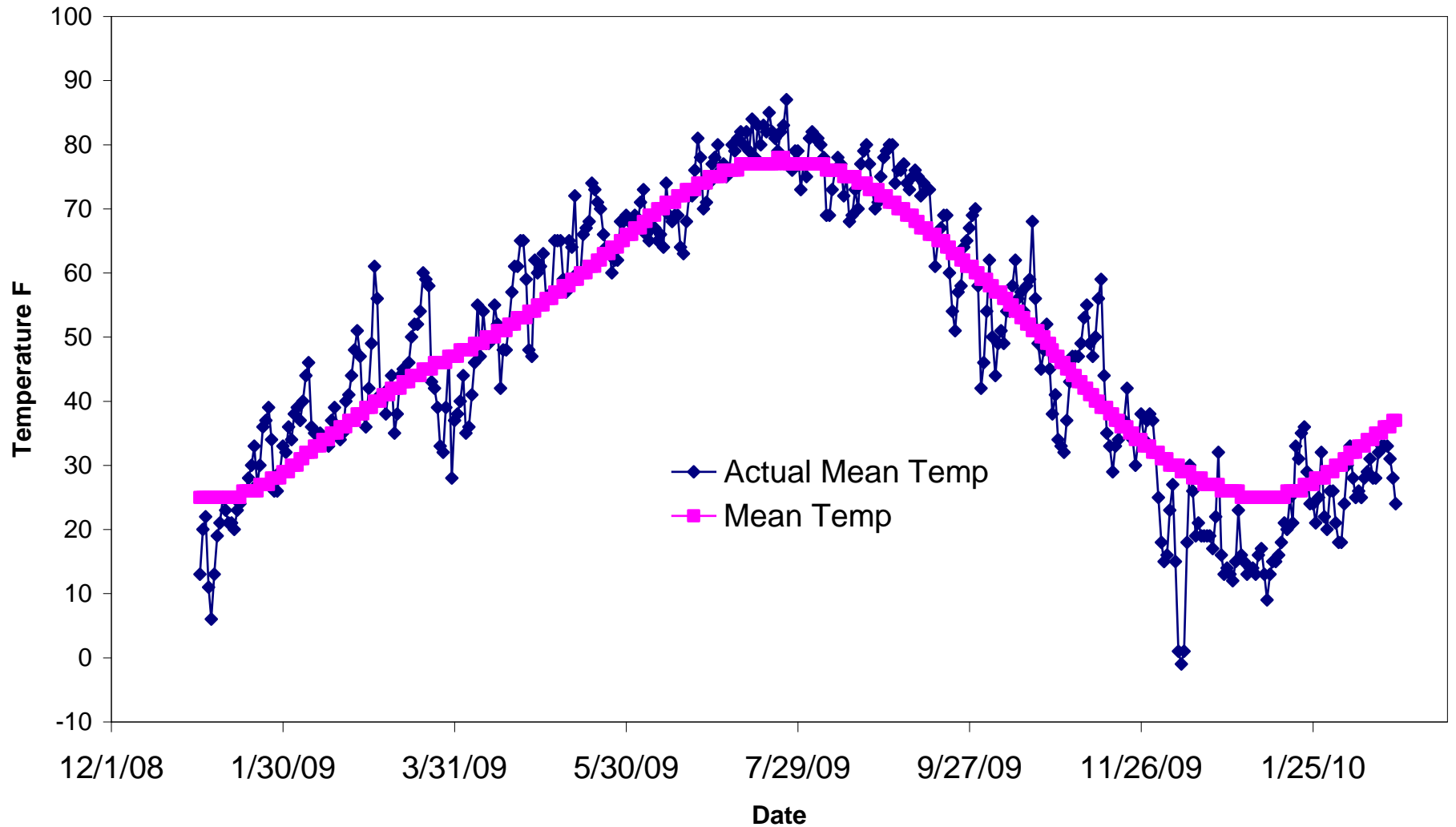
Rank: 24.7 degrees is 71th coolest for period of record 1895-2010



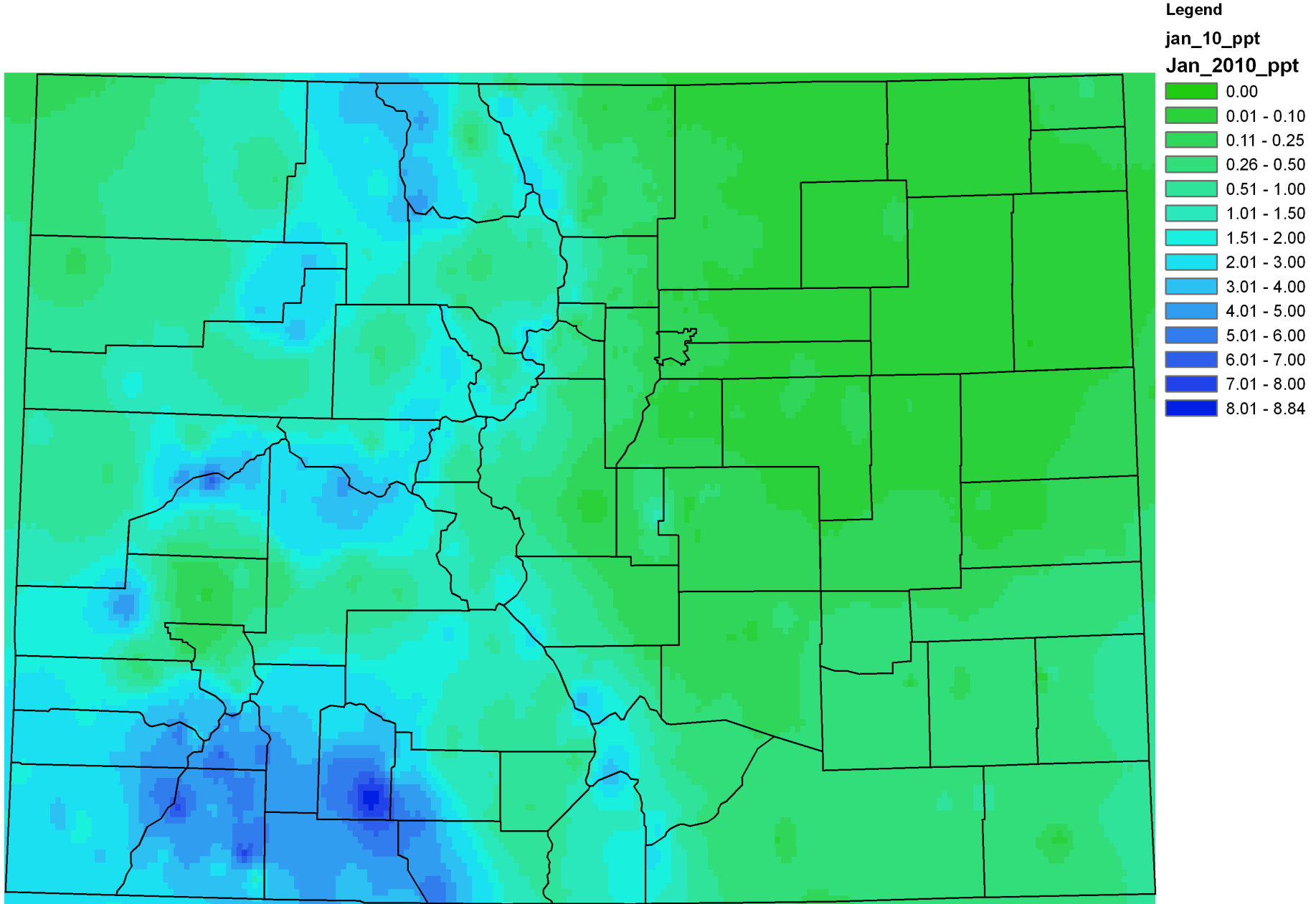
Denver, CO Jan 1, 2009 - Feb 23, 2010 Mean and Actual Daily Temperature



Grand Junction Jan 1, 2009 - Feb 23, 2010 Mean and Actual Daily Temperature

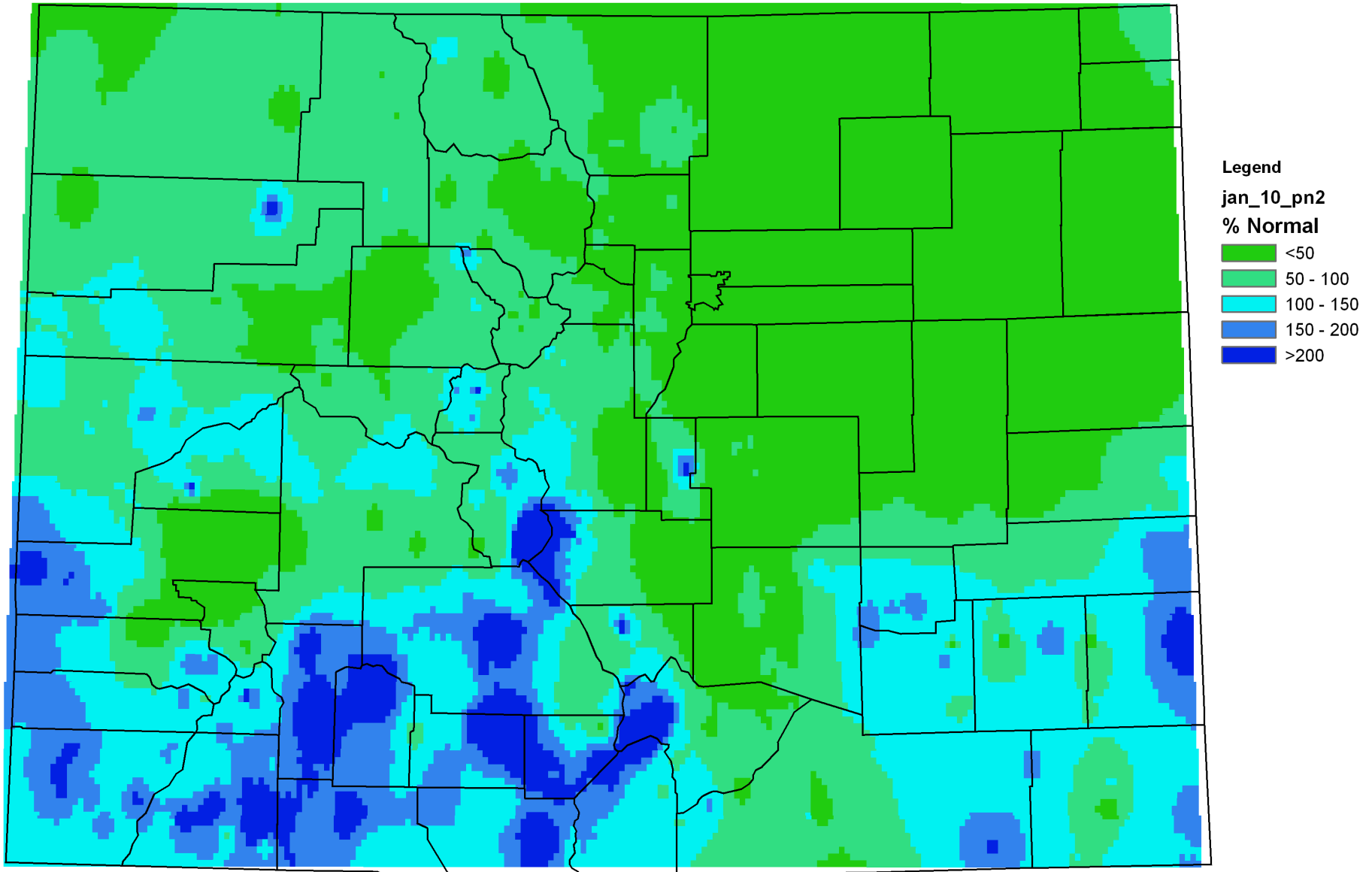


Colorado Precipitation (in) January 2010

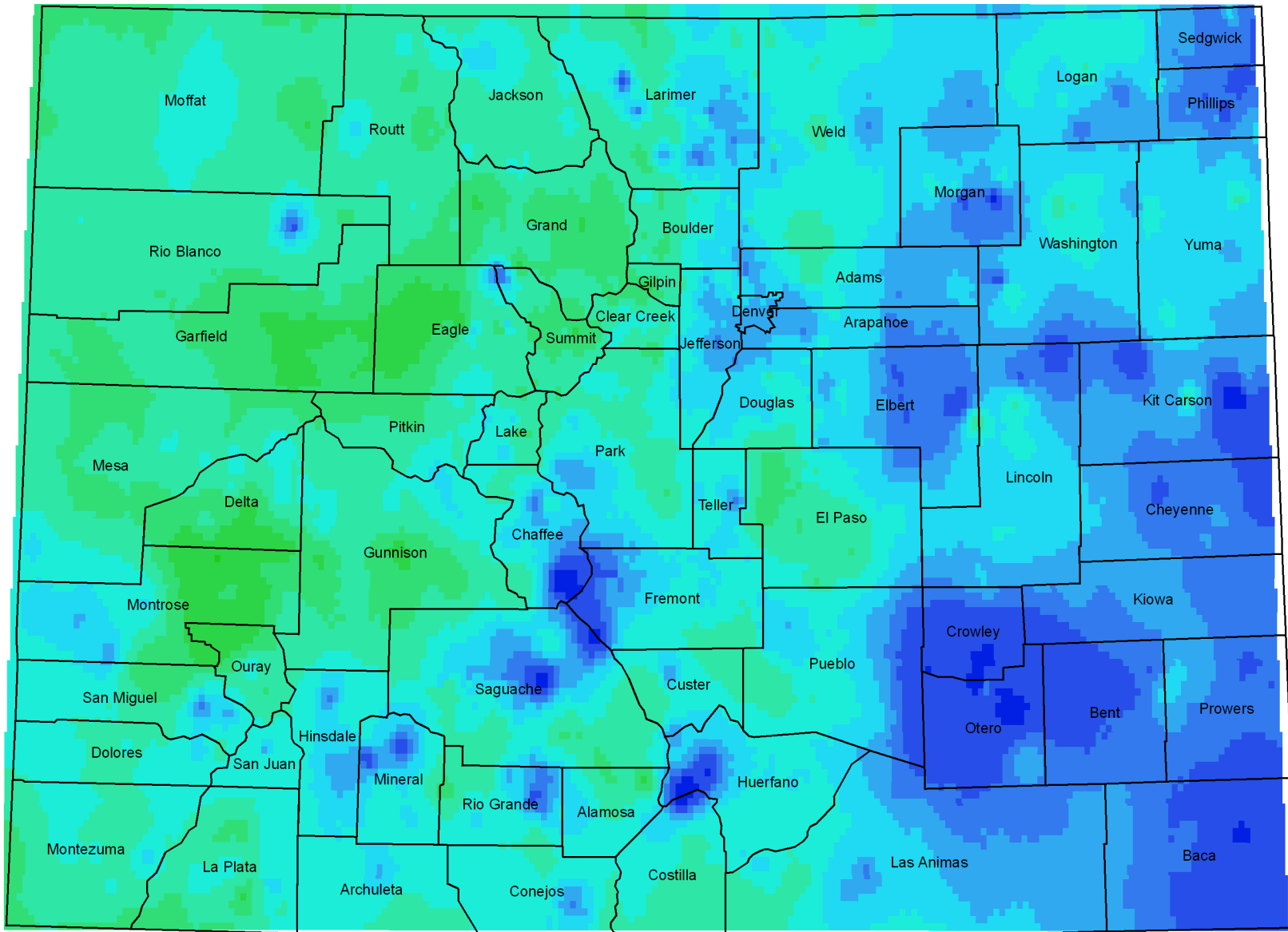
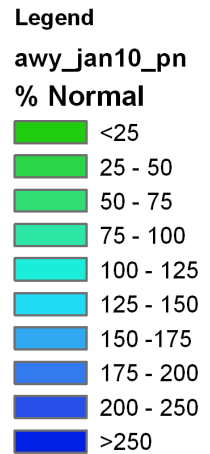


Colorado Precipitation (in) January 2010

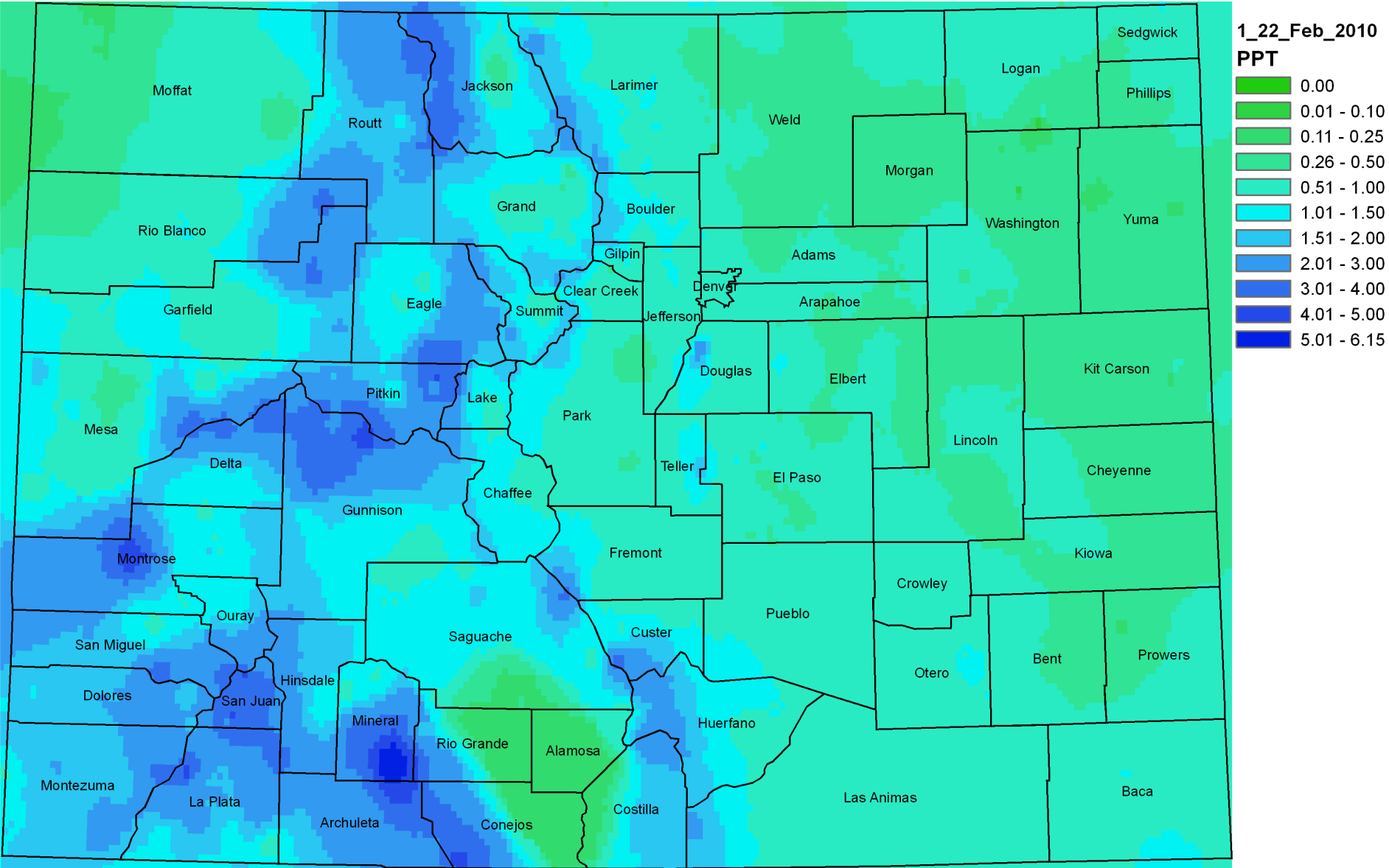
Precipitation as Percent of Normal



Water Year 2010 Precipitation as Percent of Normal October 2009 - January 2010

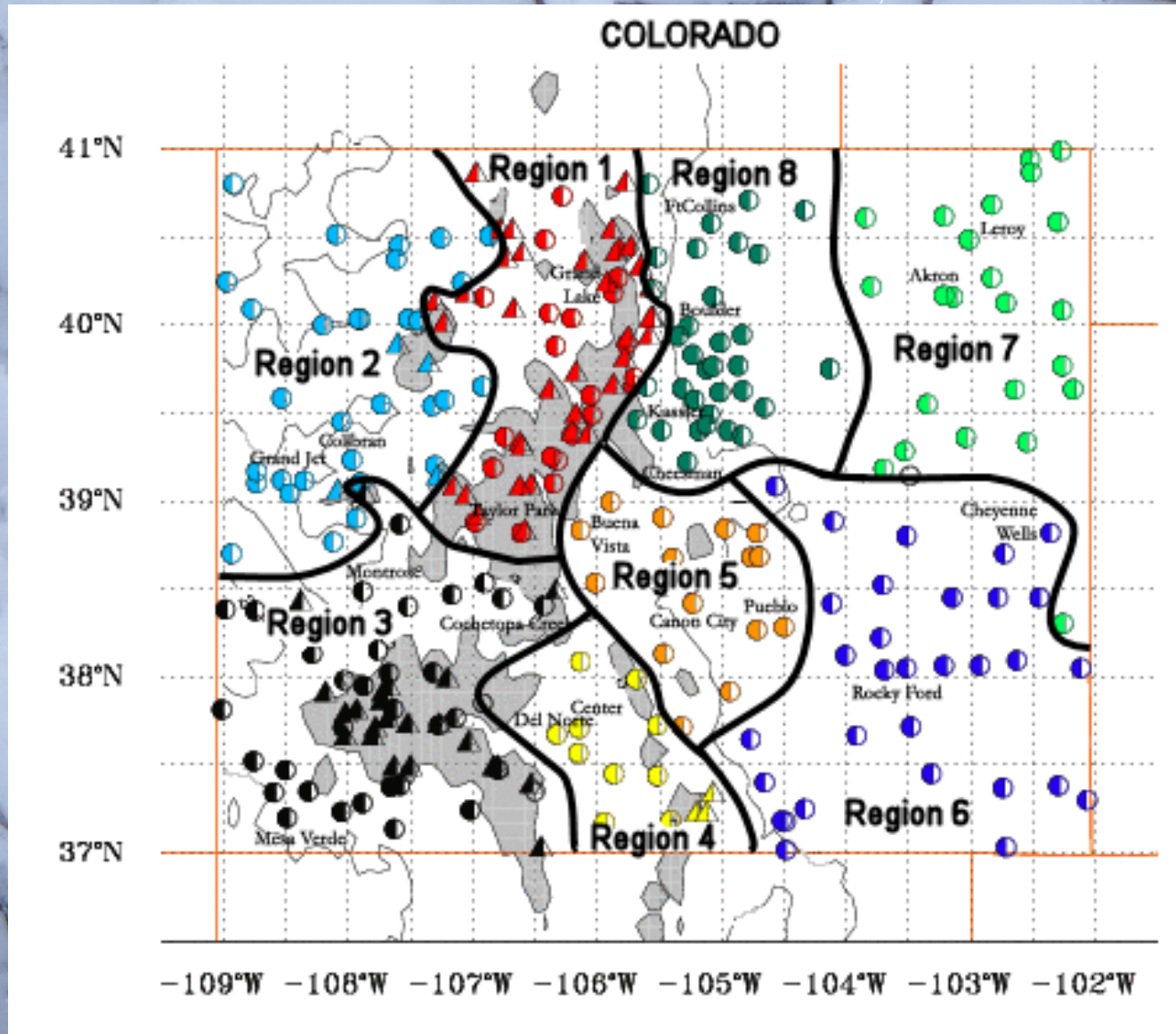


Colorado Precipitation (in) 1-22 February 2010



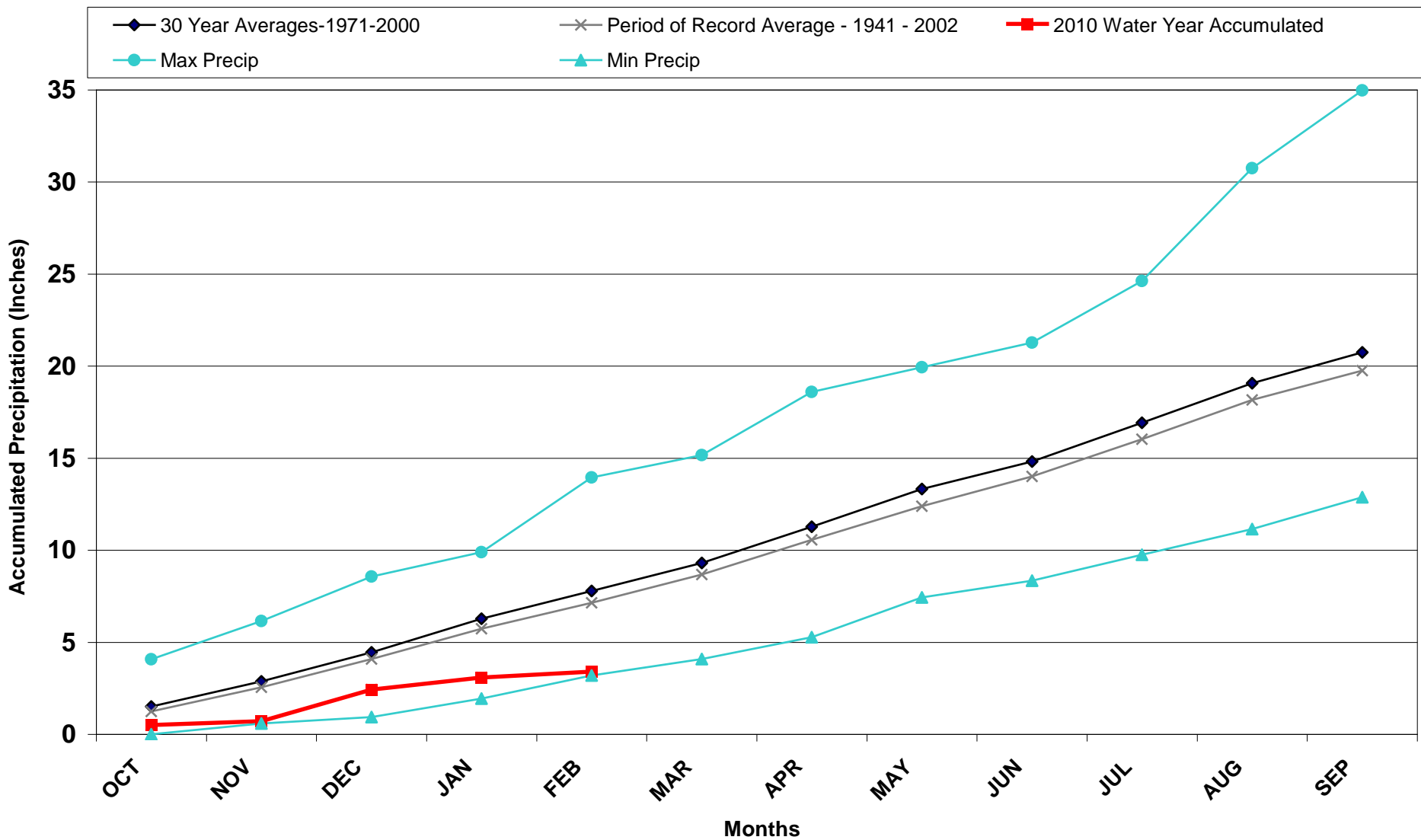
Produced by the Colorado Climate Center utilizing Snotel, NWS, CoCoRaHS and CoAgMet* Preliminary Precipitation Data
Analysis: Inverse Distance Weighting
*Summer only

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



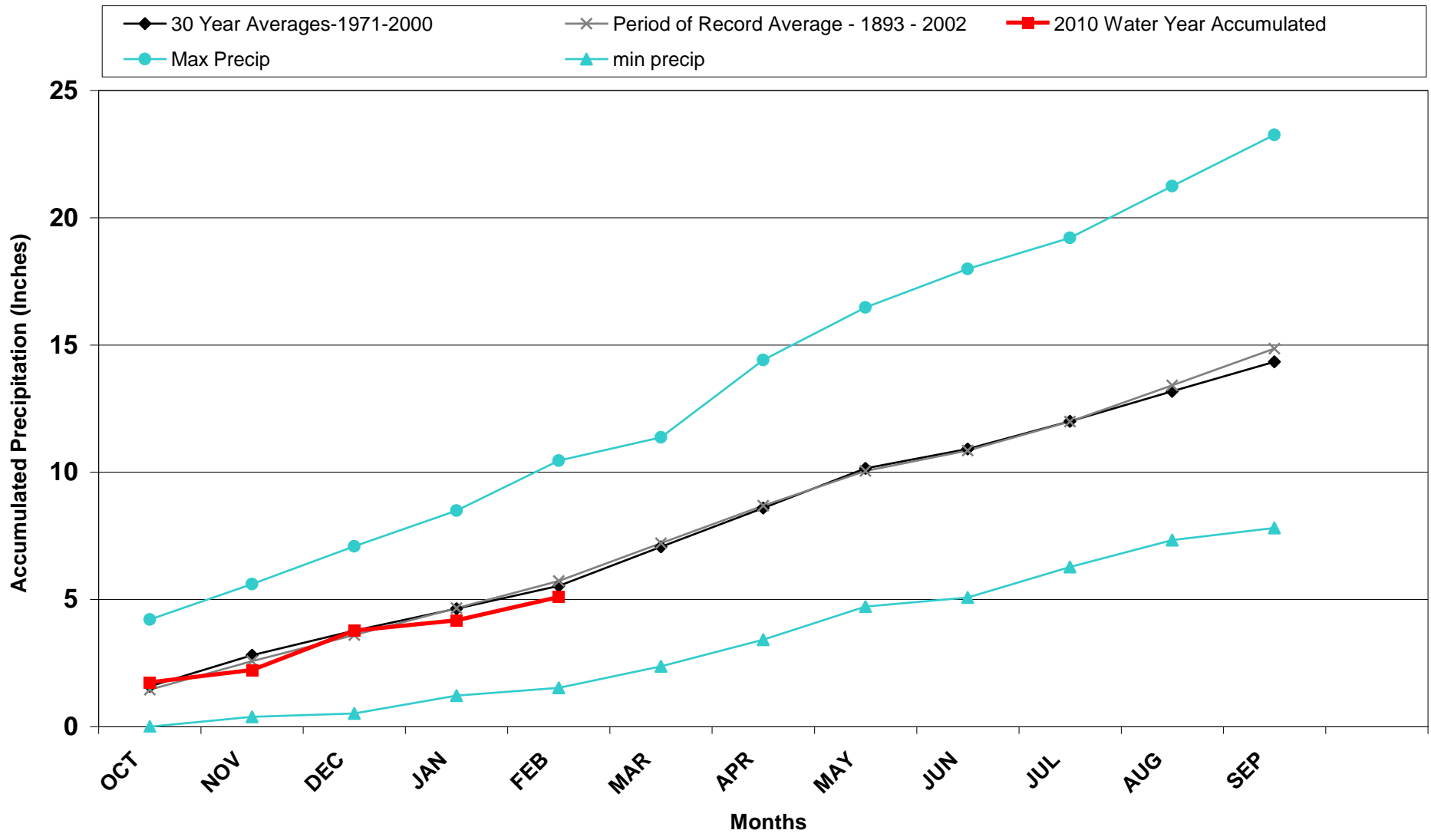
Division 1 – Grand Lake 1NW

Grand Lake 1 NW 2010 Water Year



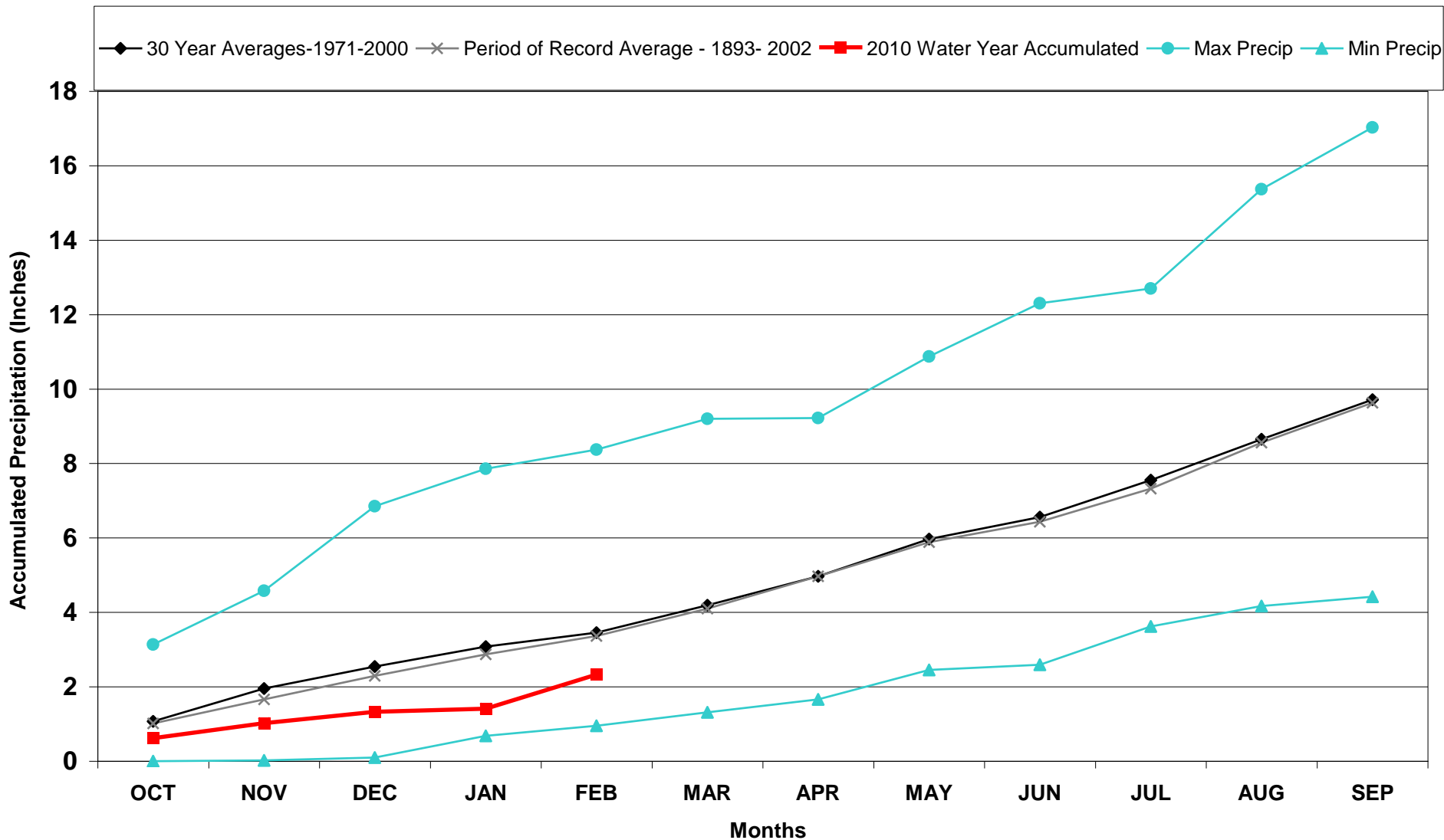
Division 2 – Collbran

Collbran 2SW 2010 Water Year



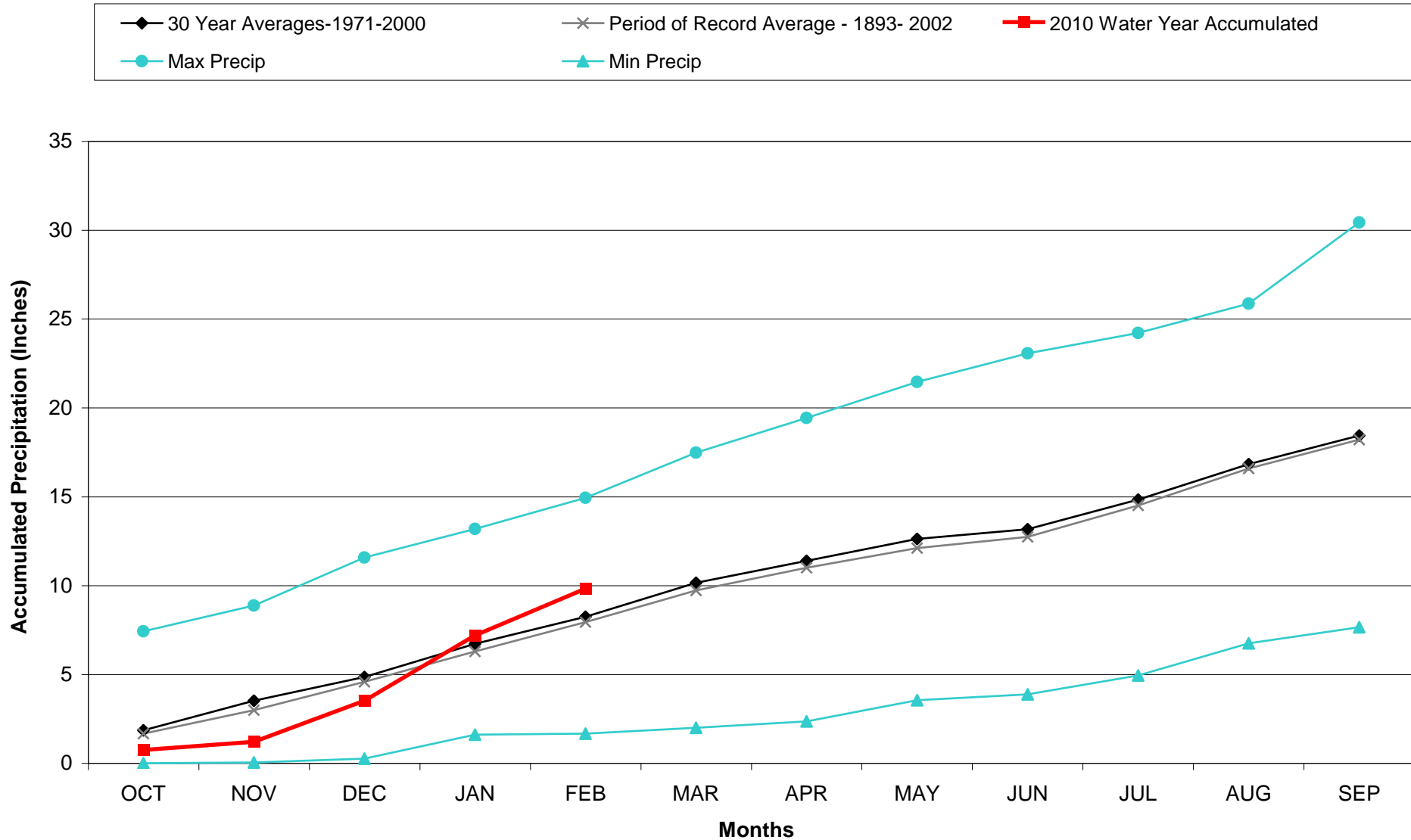
Division 3 – Montrose

Montrose #2 2010 Water Year



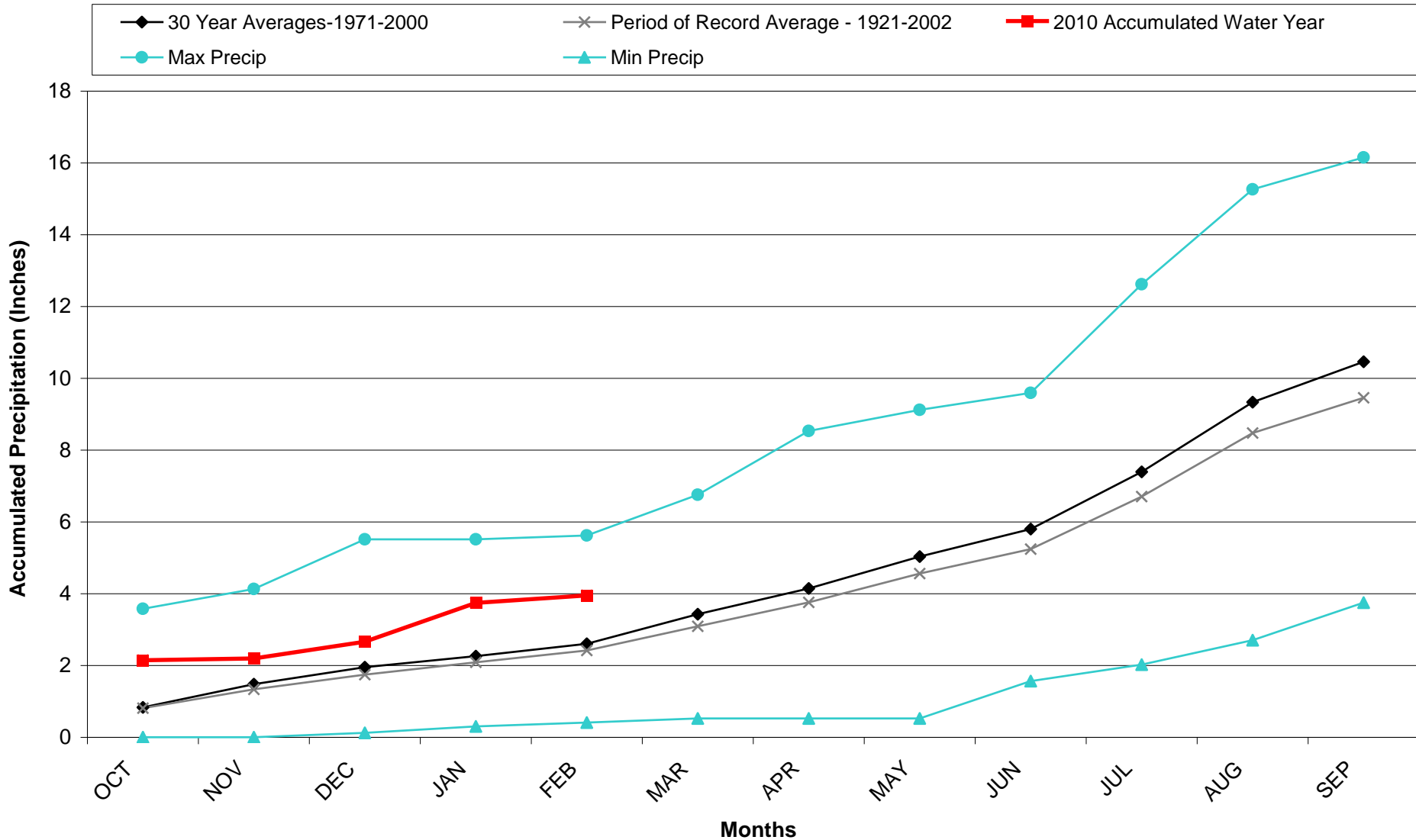
Division 3 – Mesa Verde NP

Mesa Verde NP 2010 Water Year



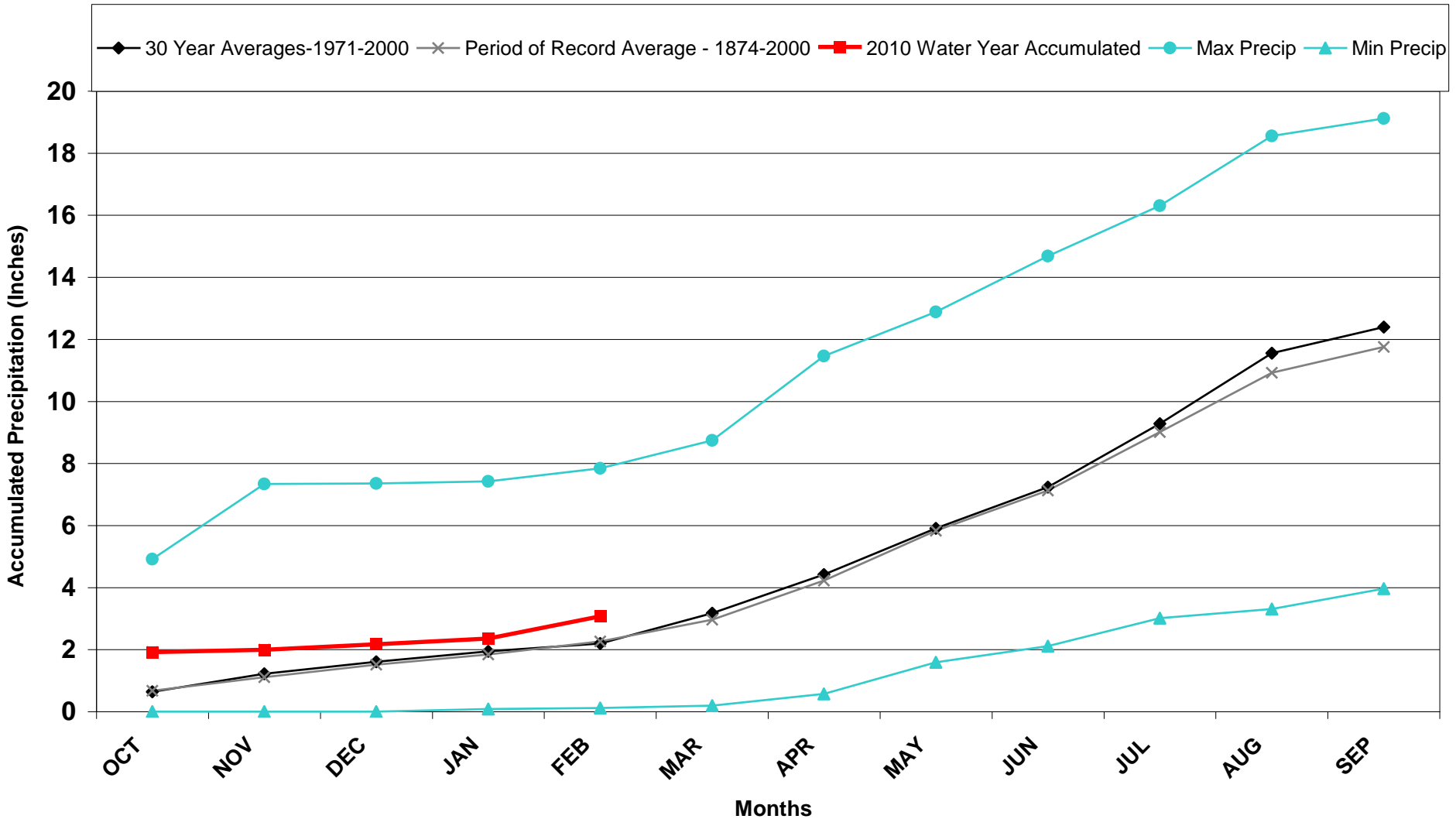
Division 4 – Del Norte

Del Norte 2010 Water Year



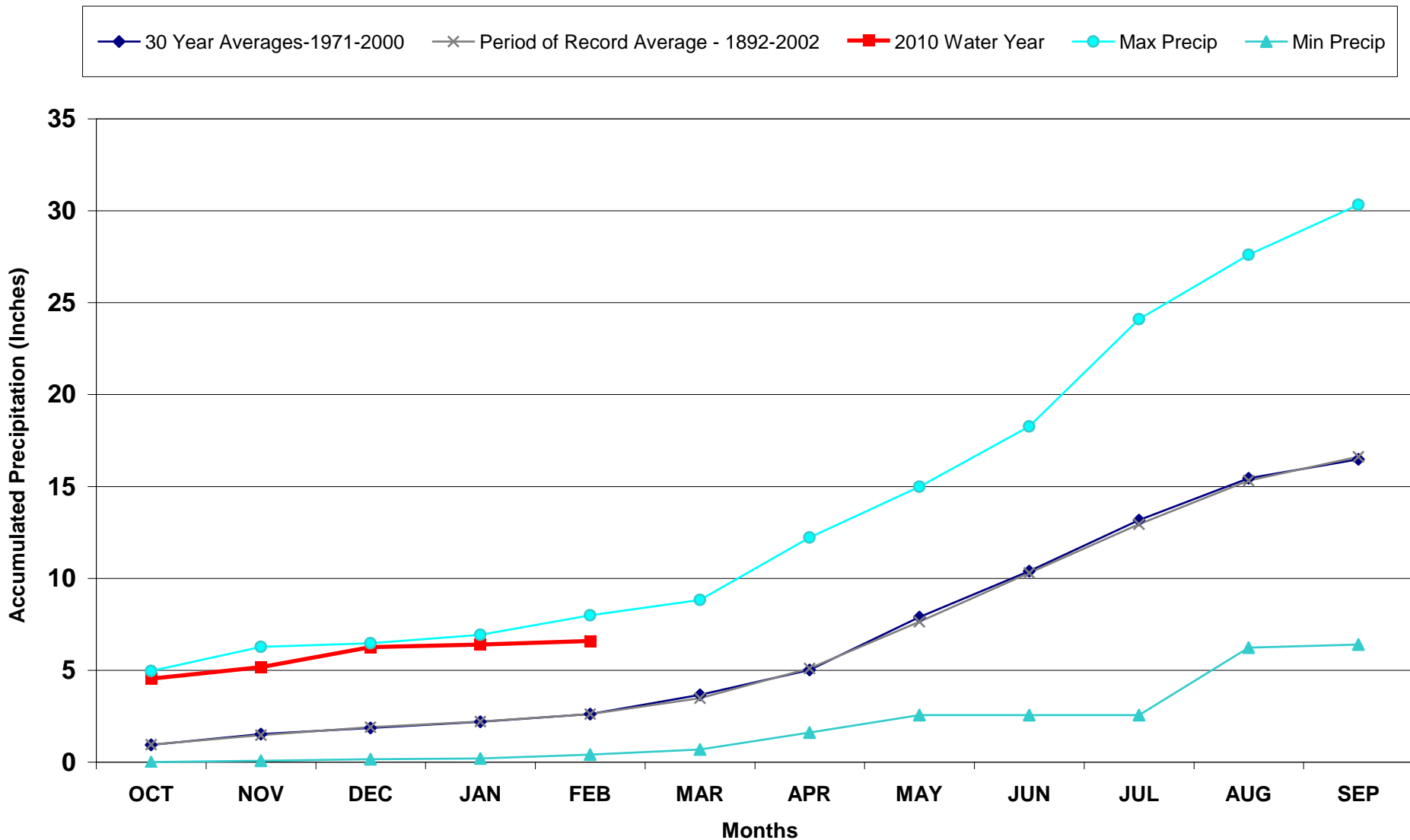
Division 5 – Pueblo

Pueblo WSO 2010 Water Year



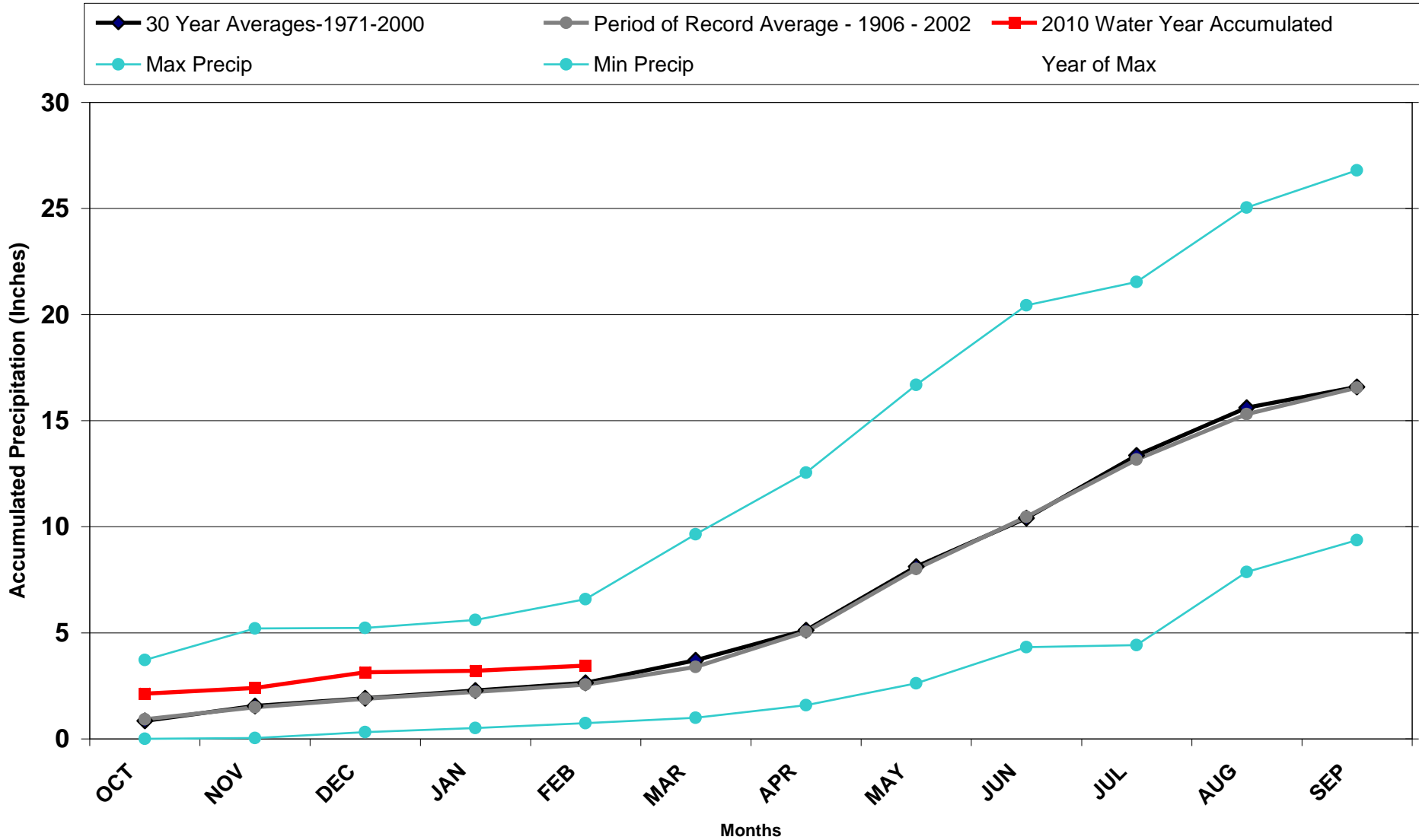
Division 6 - Burlington

Burlington 2010 Water Year



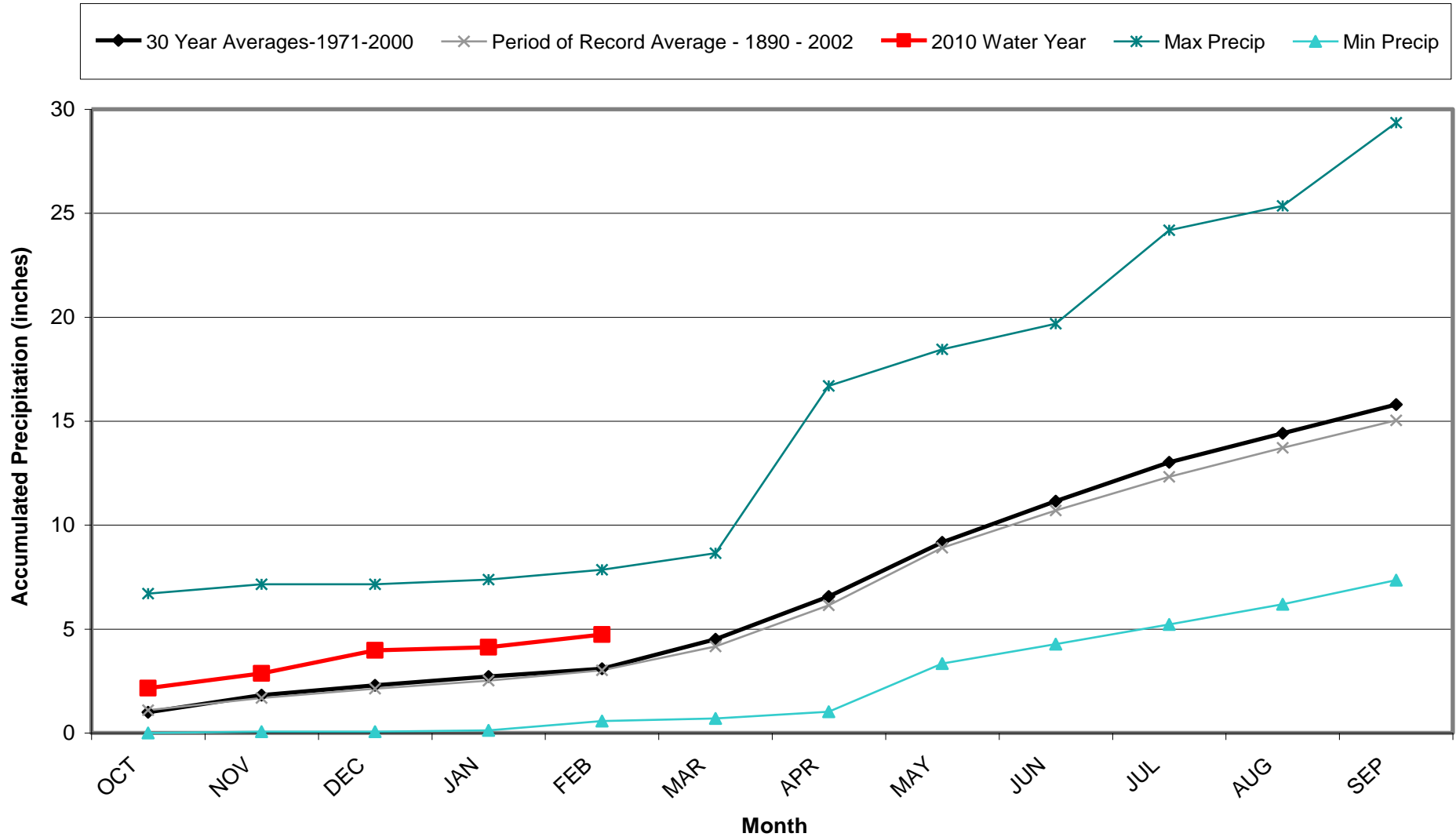
Division 7 – Akron

Akron 4E 2010 Water Year



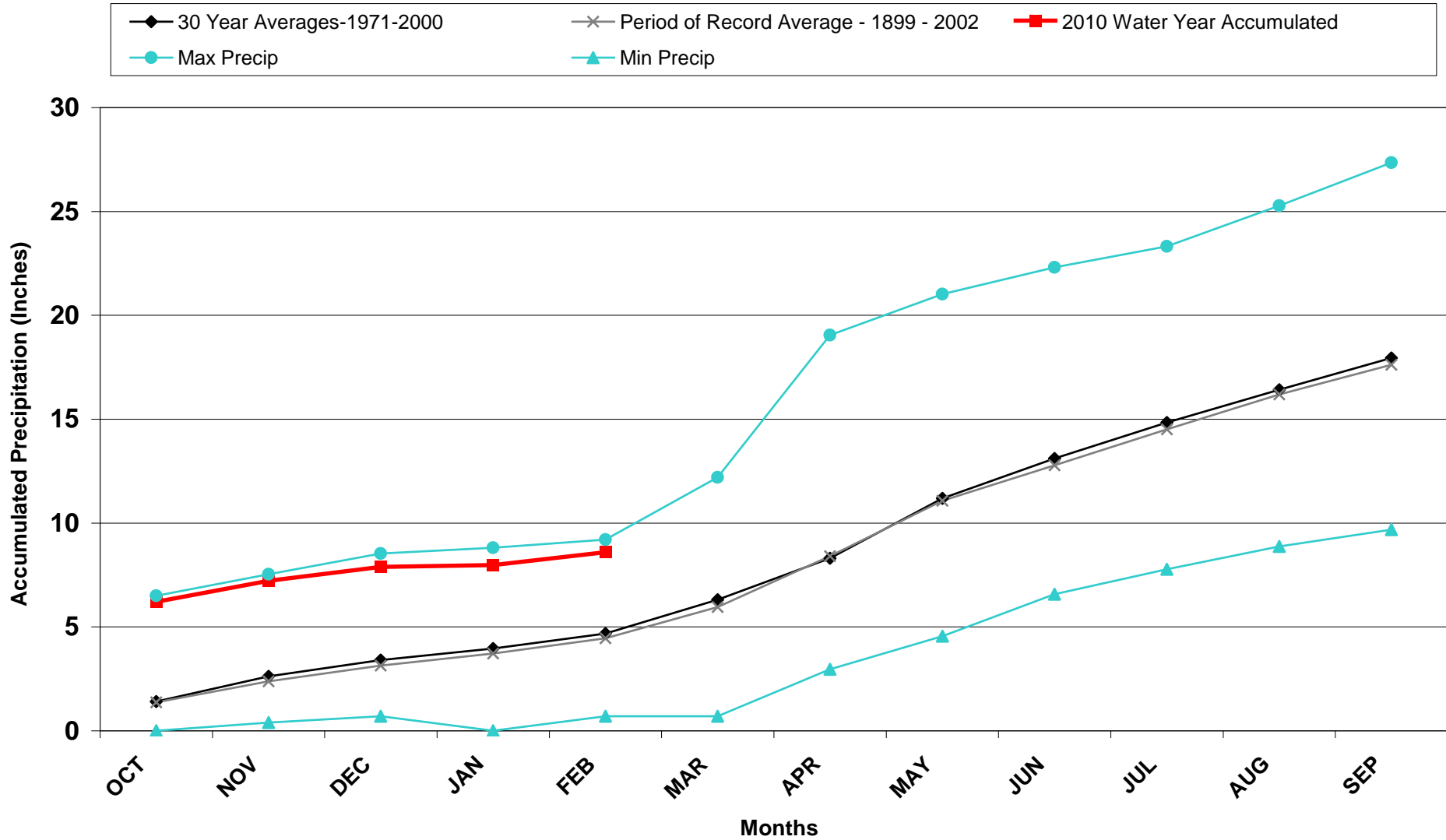
Division 8 – Fort Collins

Fort Collins 2010 Water Year



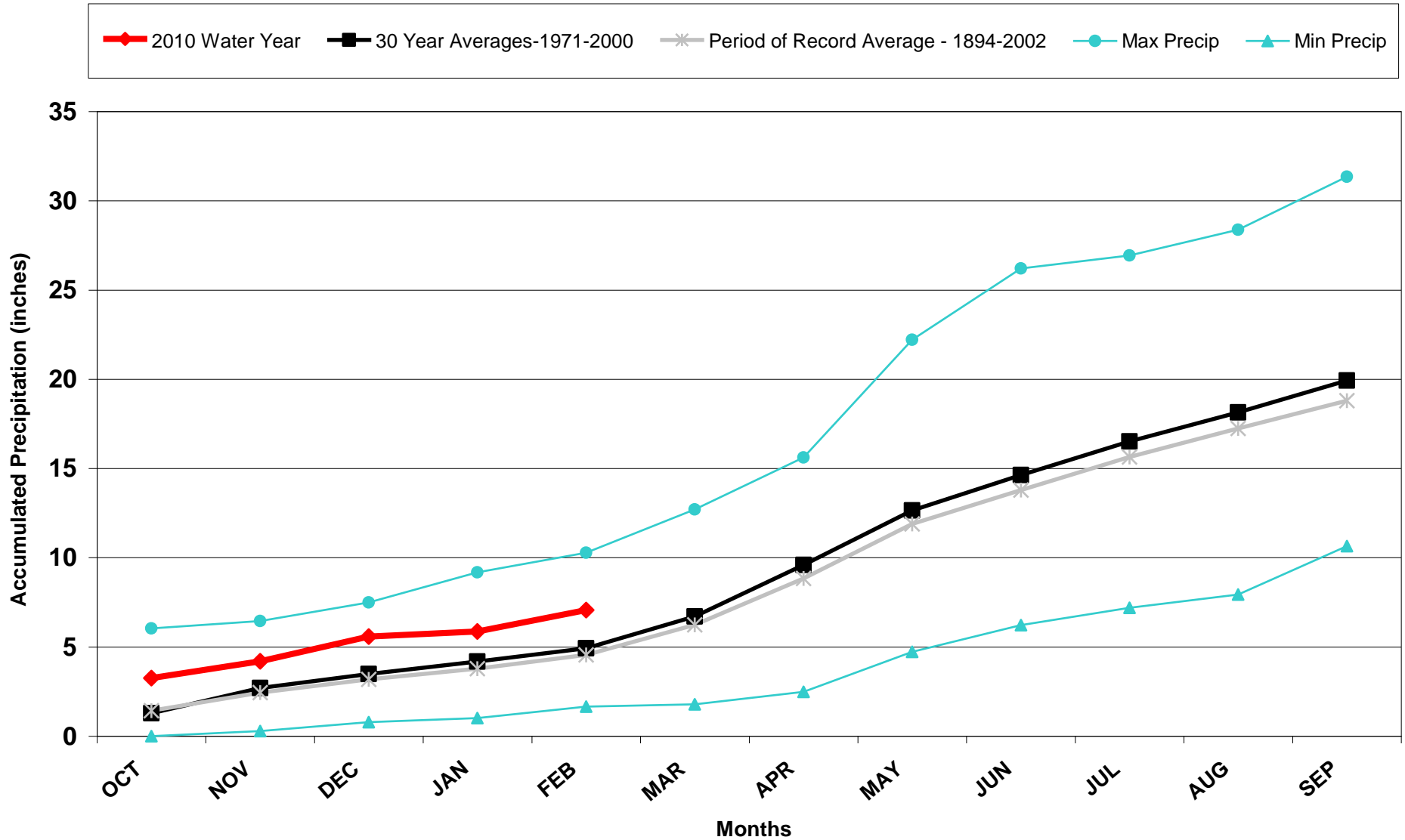
Division 8 – Kassler

Kassler 2010 Water Year



Division 8 - Boulder

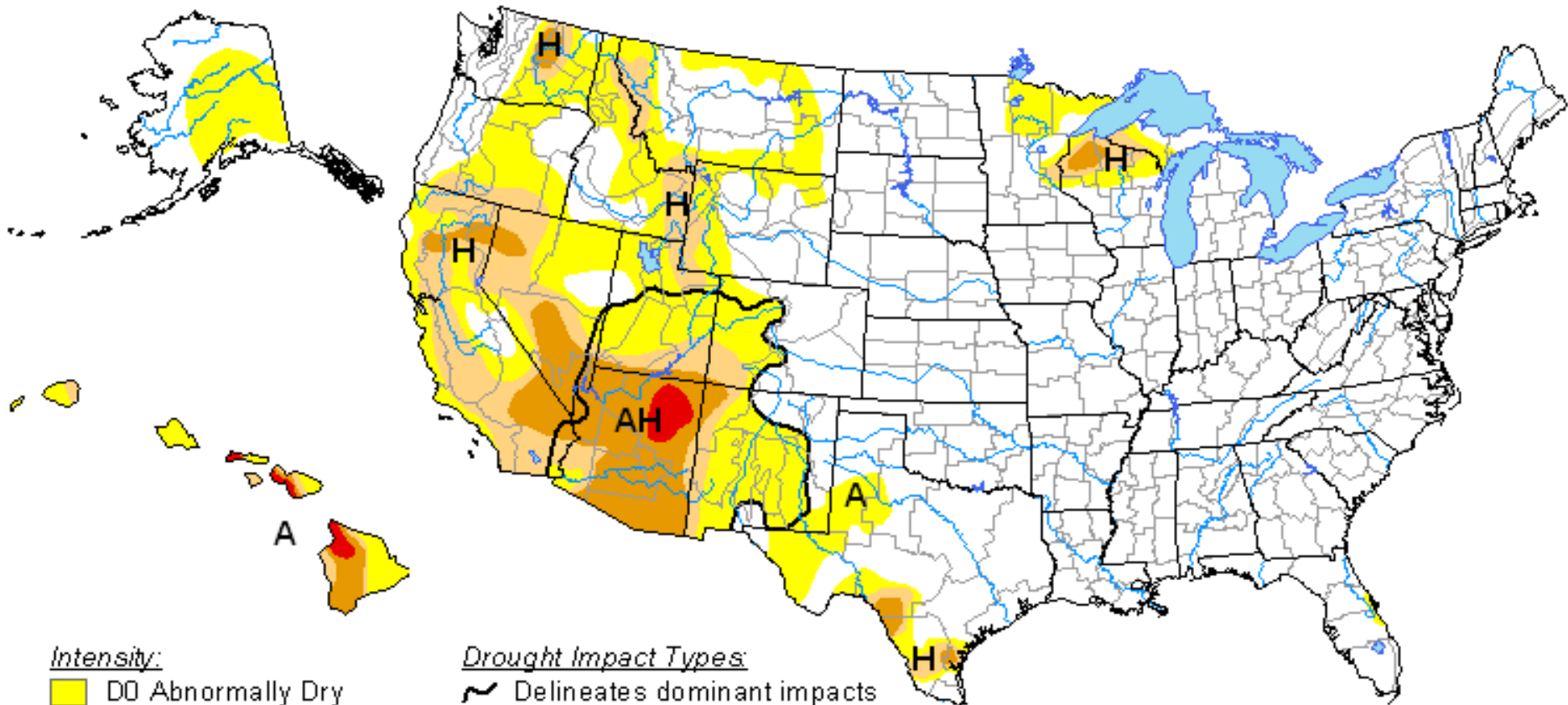
Boulder 2010 Water Year








U.S. Drought Monitor

January 19, 2010


Valid 7 am. EST



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>



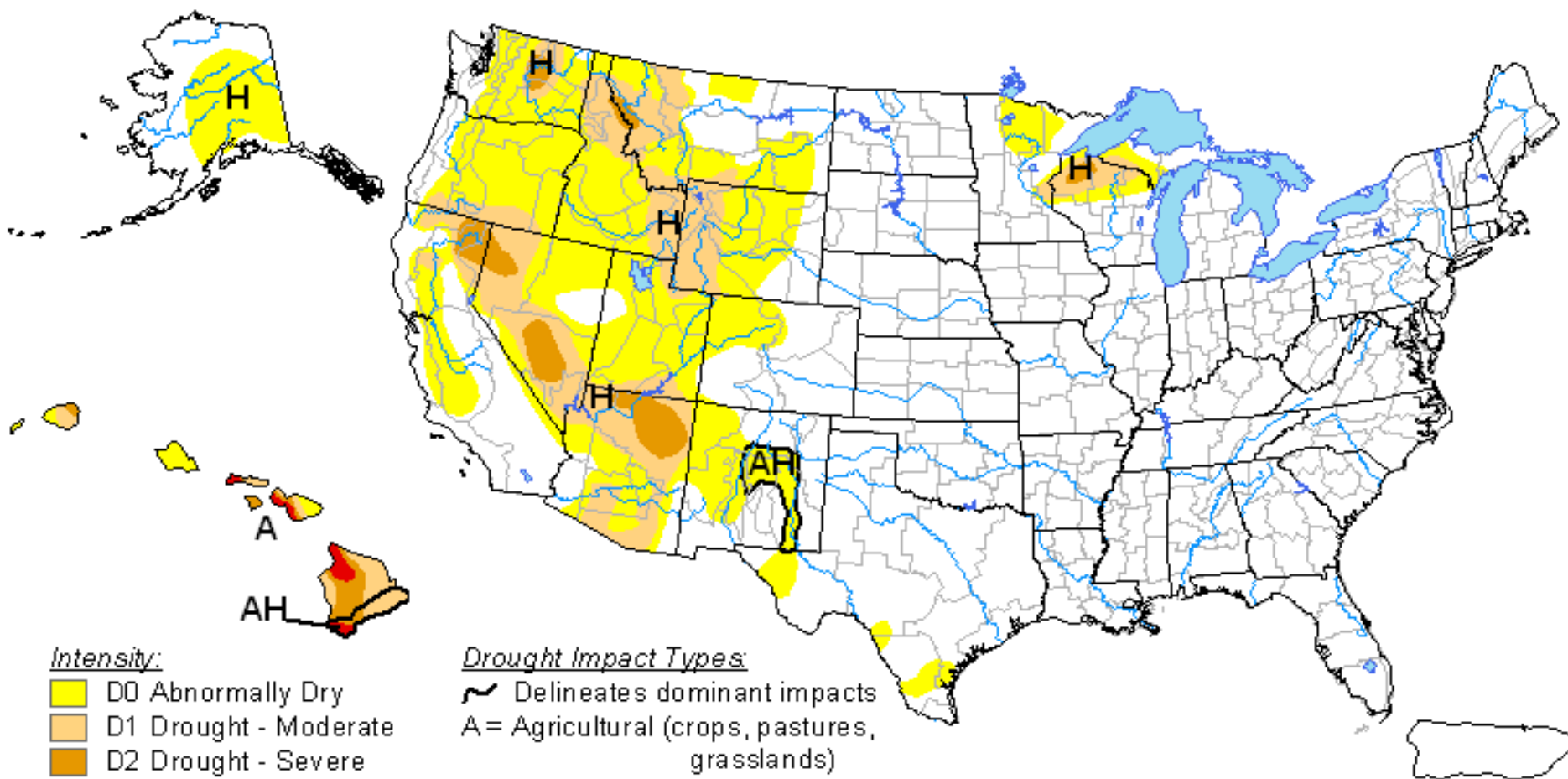
Released Thursday, January 21, 2010

Author: David Miskus, NOAA/NWS/NCEP/CPC






U.S. Drought Monitor

February 23, 2010


Valid 7 a.m. EST



Intensity:

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

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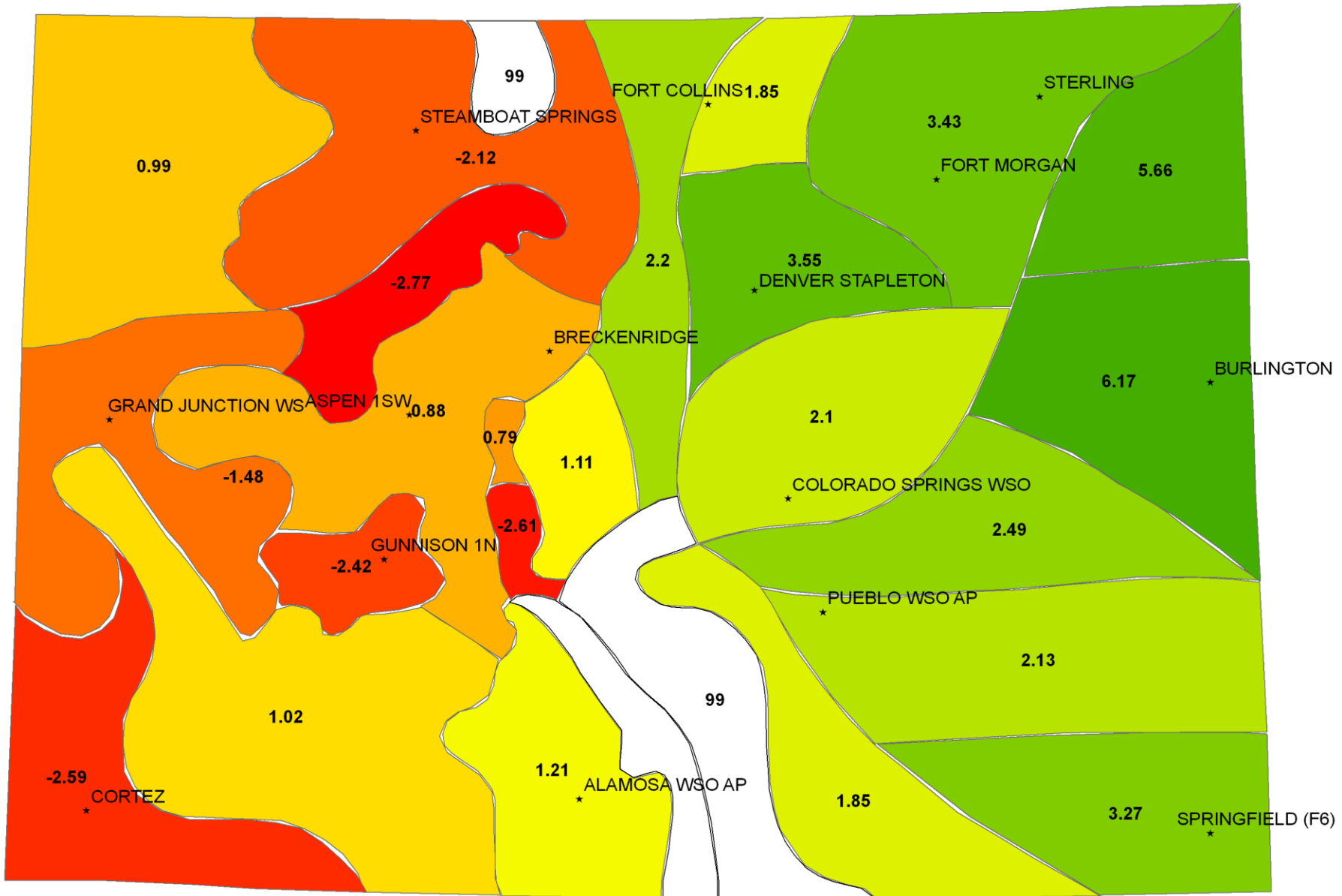
<http://drought.unl.edu/dm>



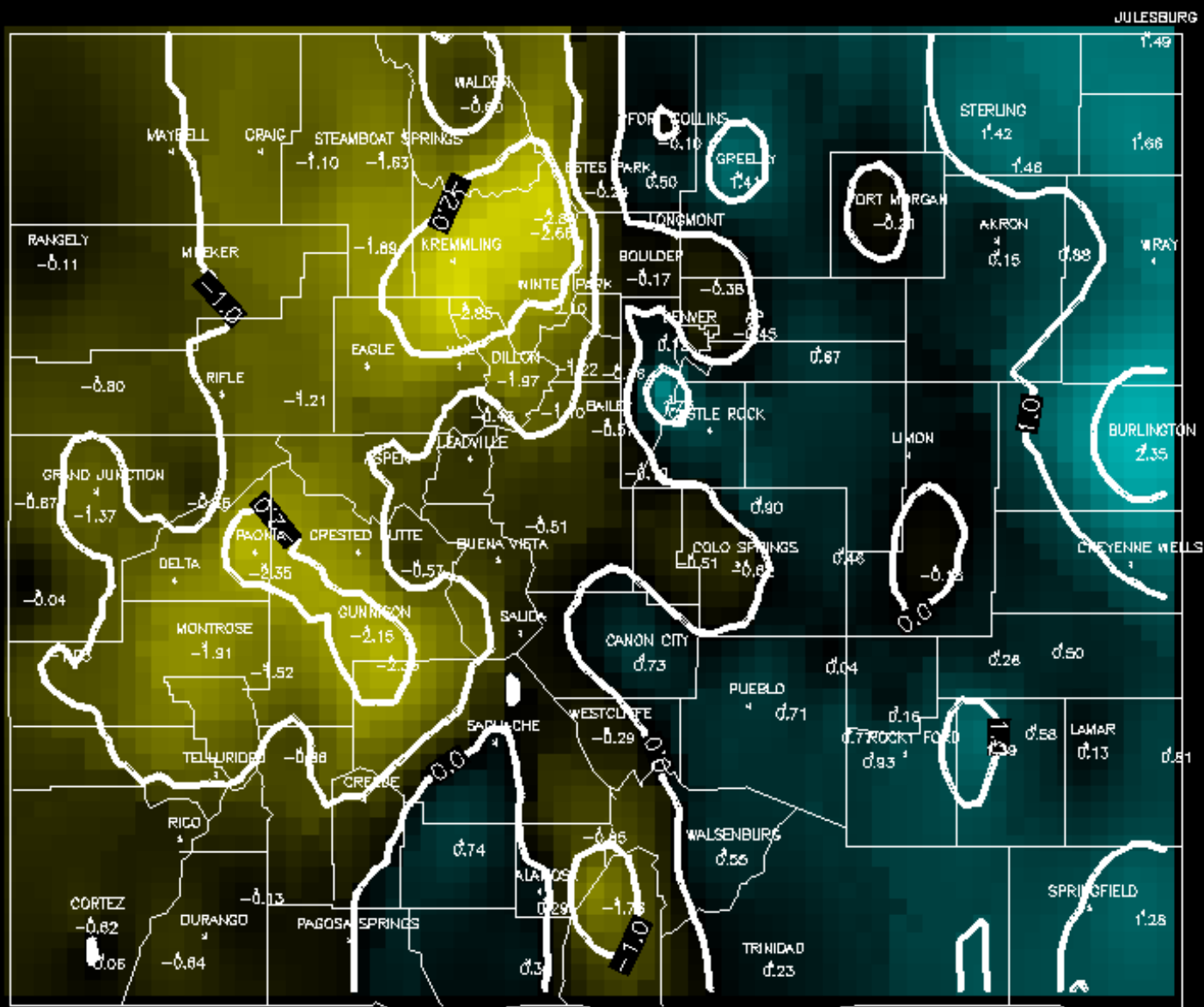
Released Thursday, February 25, 2010

Author: Brad Rippey, U.S. Department of Agriculture

Modified Palmer Drought Index January 2010



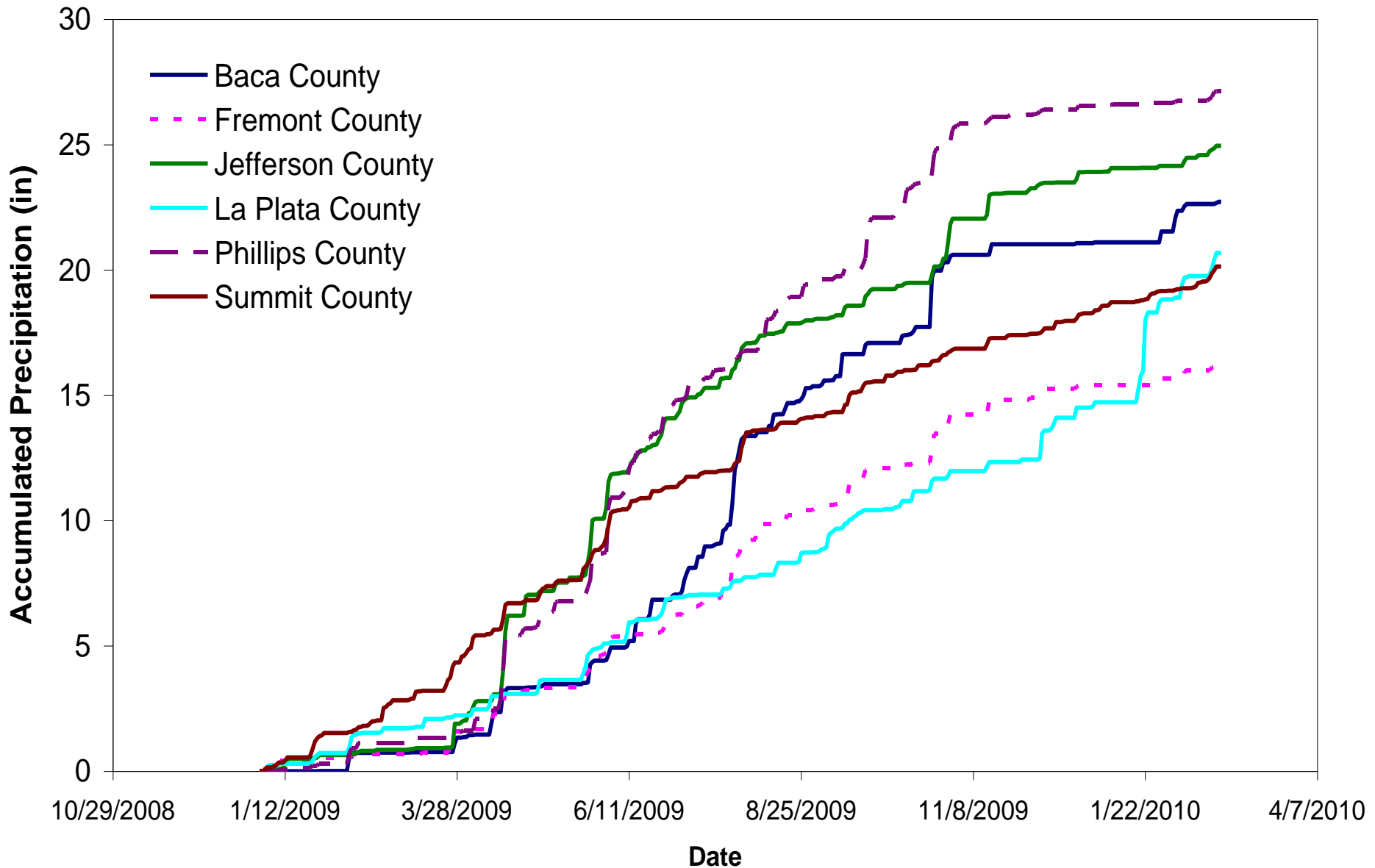
6-month SPI



98 % < 2.0
 90 % < 1.0
 54 % < 0.0
 23 % < -1.0
 3 % < -2.0
 0 % < -3.0

Produced by:
 Colorado Climate Center
 Fort Collins, CO

CoCoRaHS Accumulated Daily Precipitation for Selected Counties (Jan 1, 2009 - Feb 24, 2010)



Colorado Climate Center

Data and Power Point Presentations
available for downloading

- <http://ccc.atmos.colostate.edu>
- then click on “Presentations”

**Colorado
State
University**

Knowledge to Go Places

