

Climate Update

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Colorado State University

Presented to
Water Availability Task Force
June 23, 2010
Denver, CO

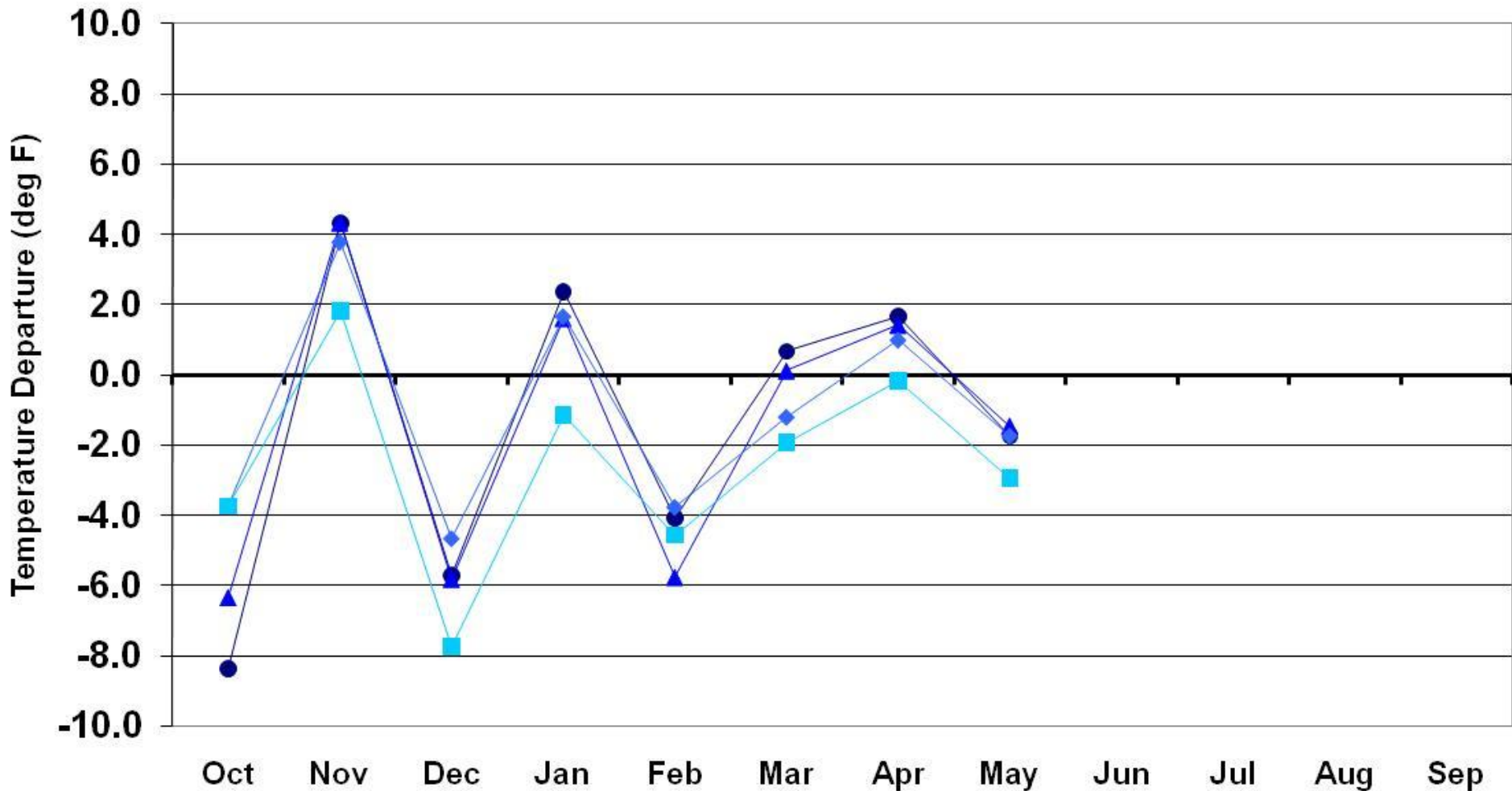


Colorado State University
Knowledge to Go Places

Prepared by Wendy Ryan

Water Year 2010 Temperature Departures

Water Year 2010



● Eastern Plains

▲ Foothills

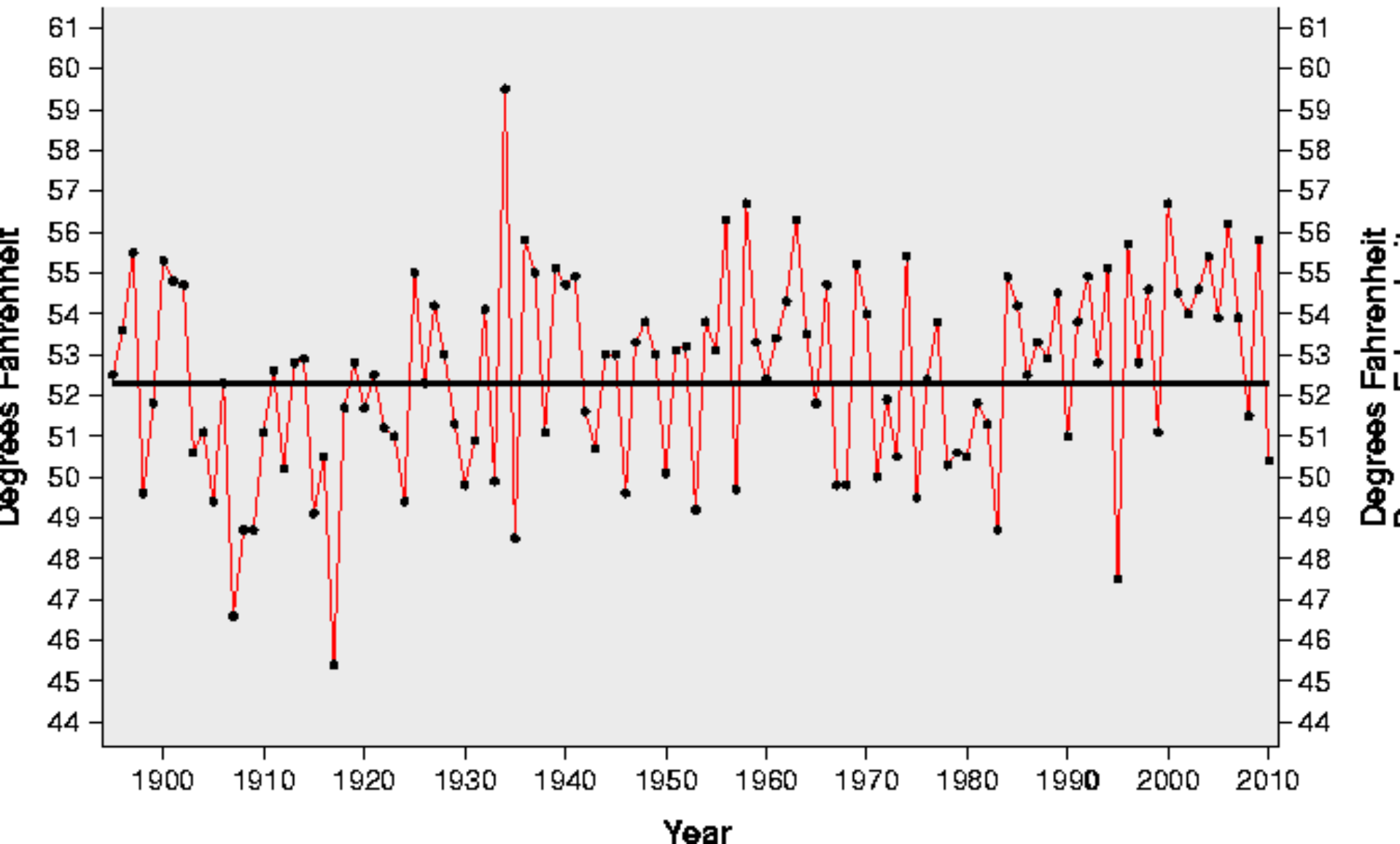
◆ Mountains

■ Western Valleys

May Average Temperature History for Colorado (NCDC)

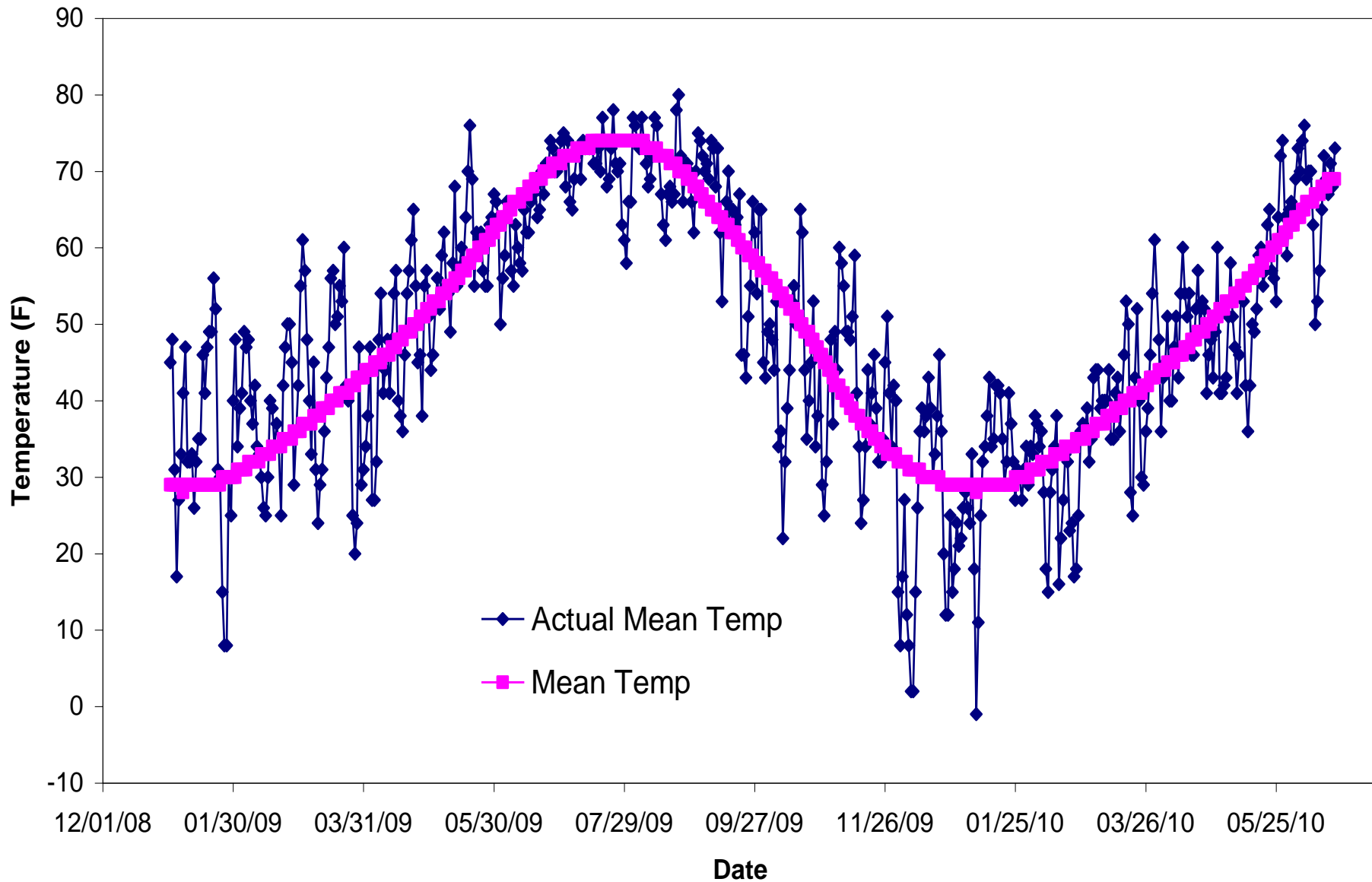
- Actual temperature
- Average Temperature

Rank: 50.4 degrees is 24th coolest for period of record 1895-2010



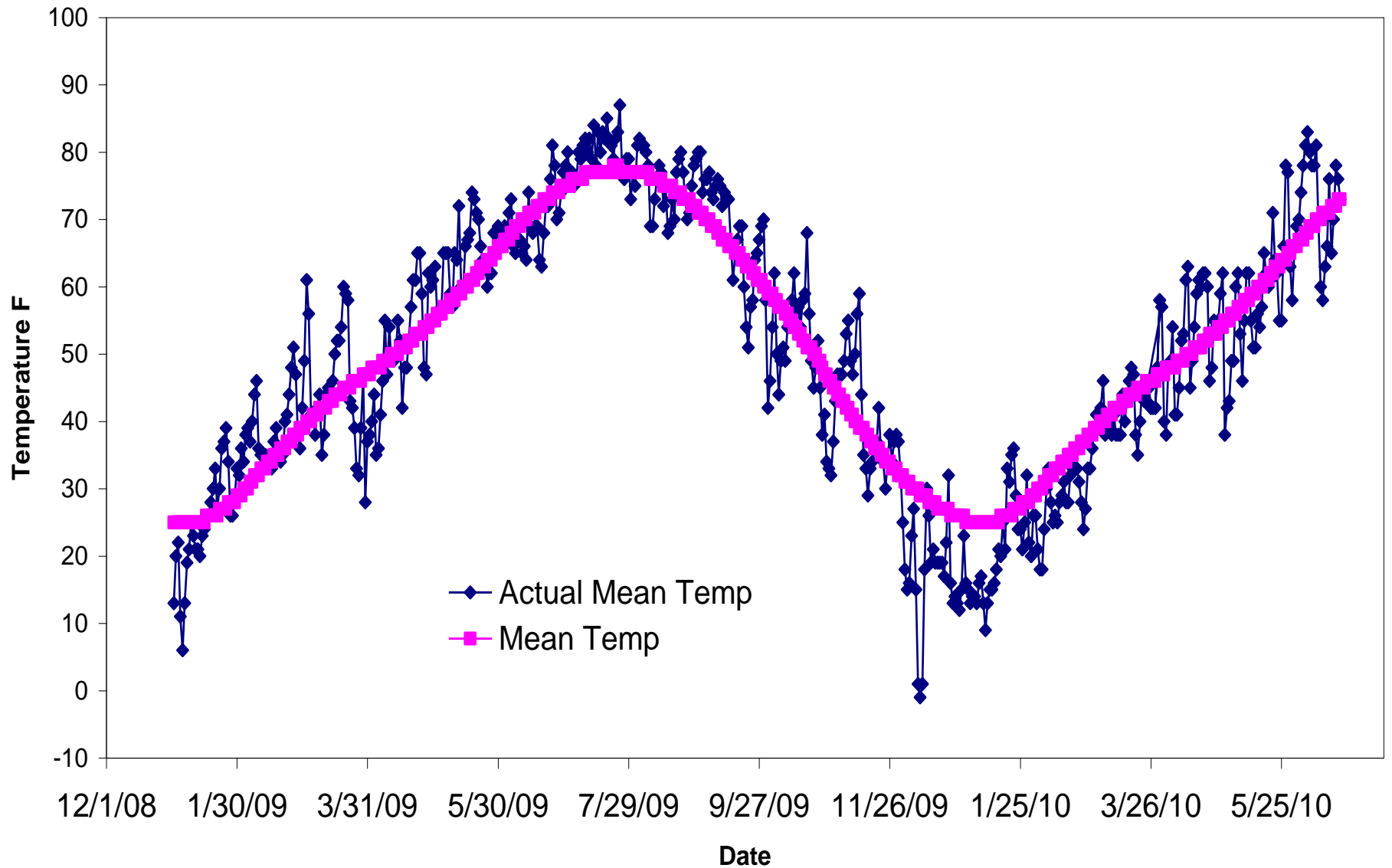
Denver, CO Jan 1, 2009 - June 21, 2010

Mean and Actual Daily Temperature

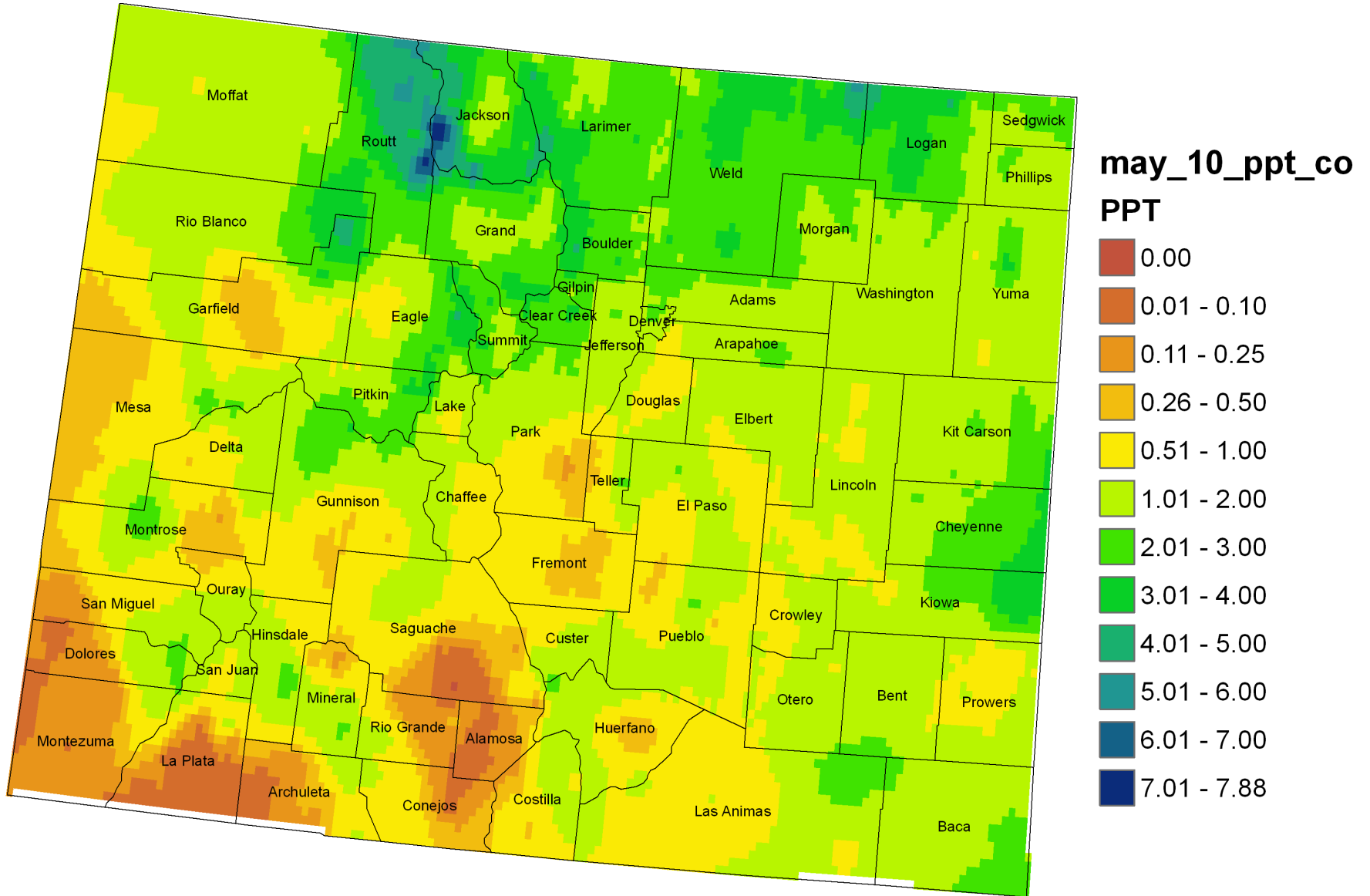


Grand Junction Jan 1, 2009 - June 21, 2010

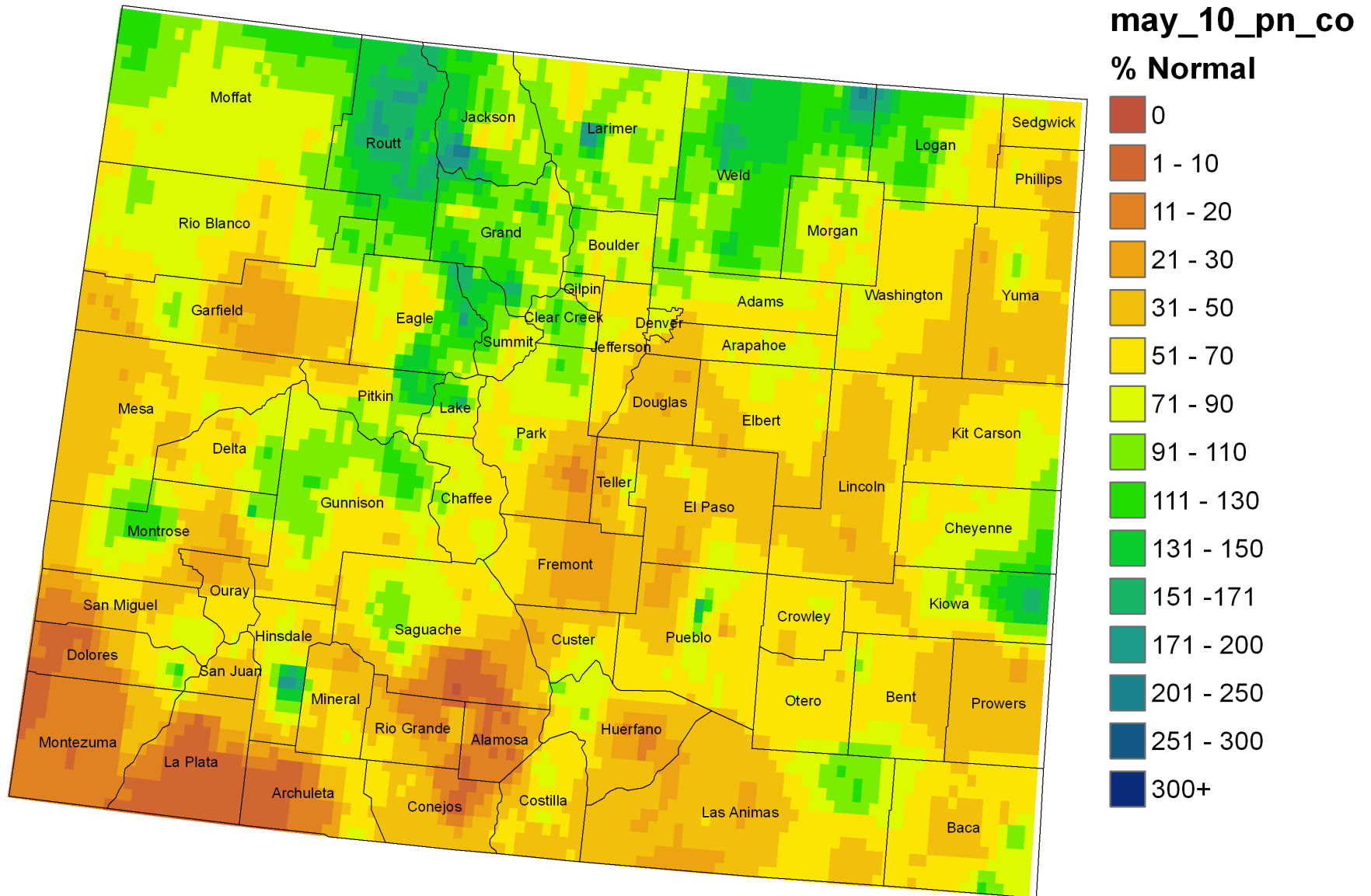
Mean and Actual Daily Temperature



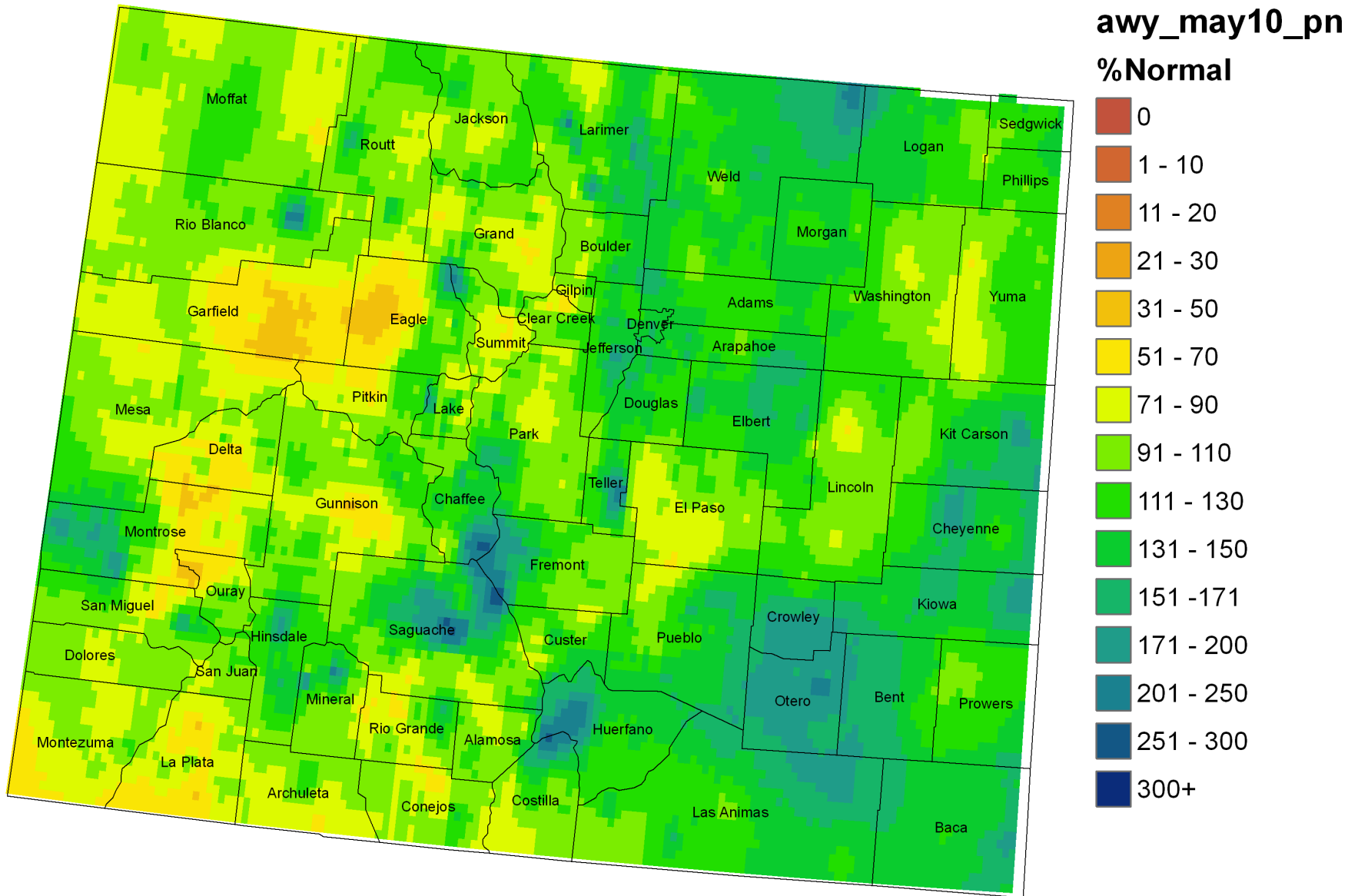
Colorado Precipitation May 2010



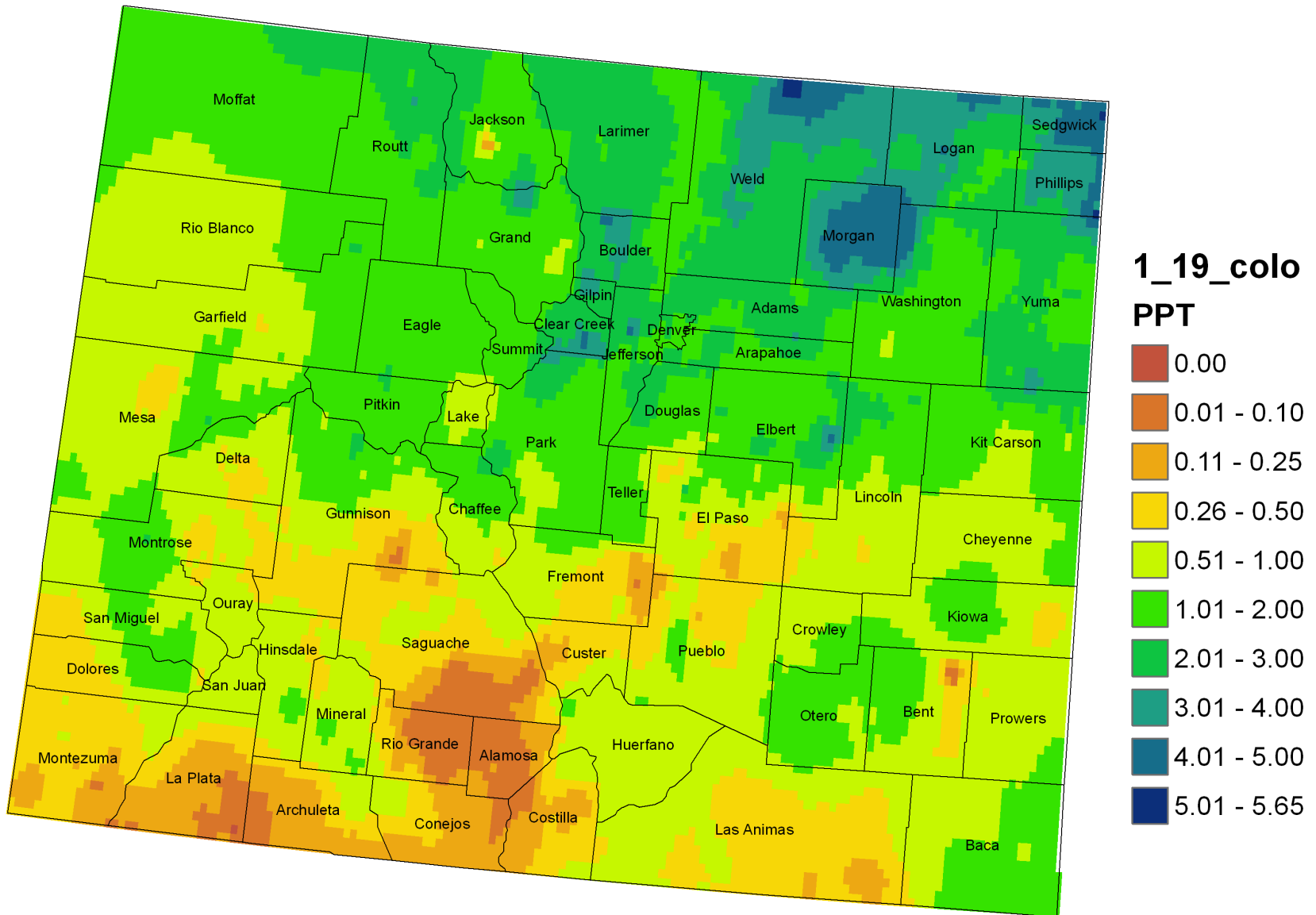
Colorado Precipitation May 2010 As Percentage of Normal



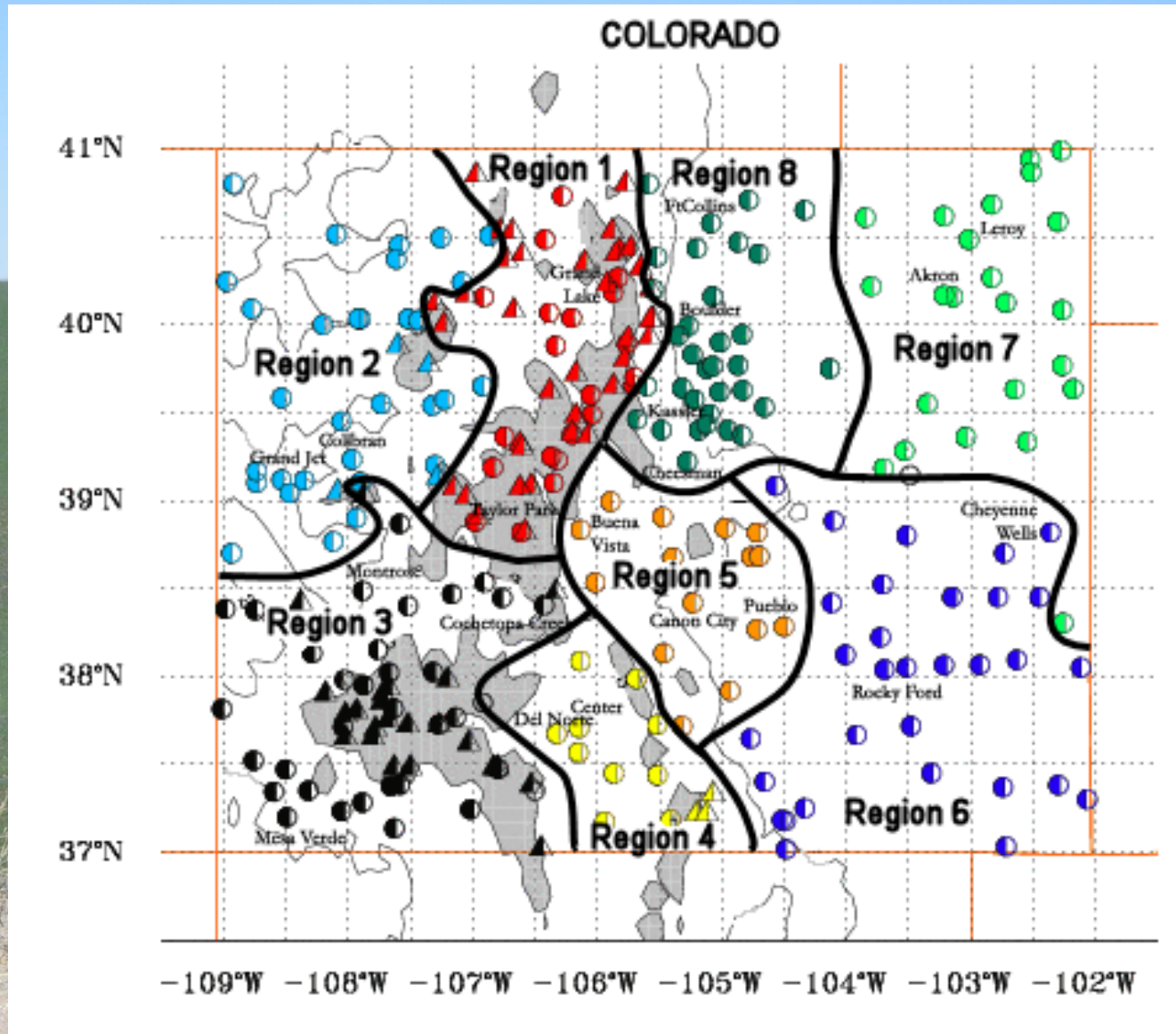
Water Year 2010 Precipitation as Percent of Normal (Oct 09 - May 10)



Colorado Precipitation June 1 - 19 2010

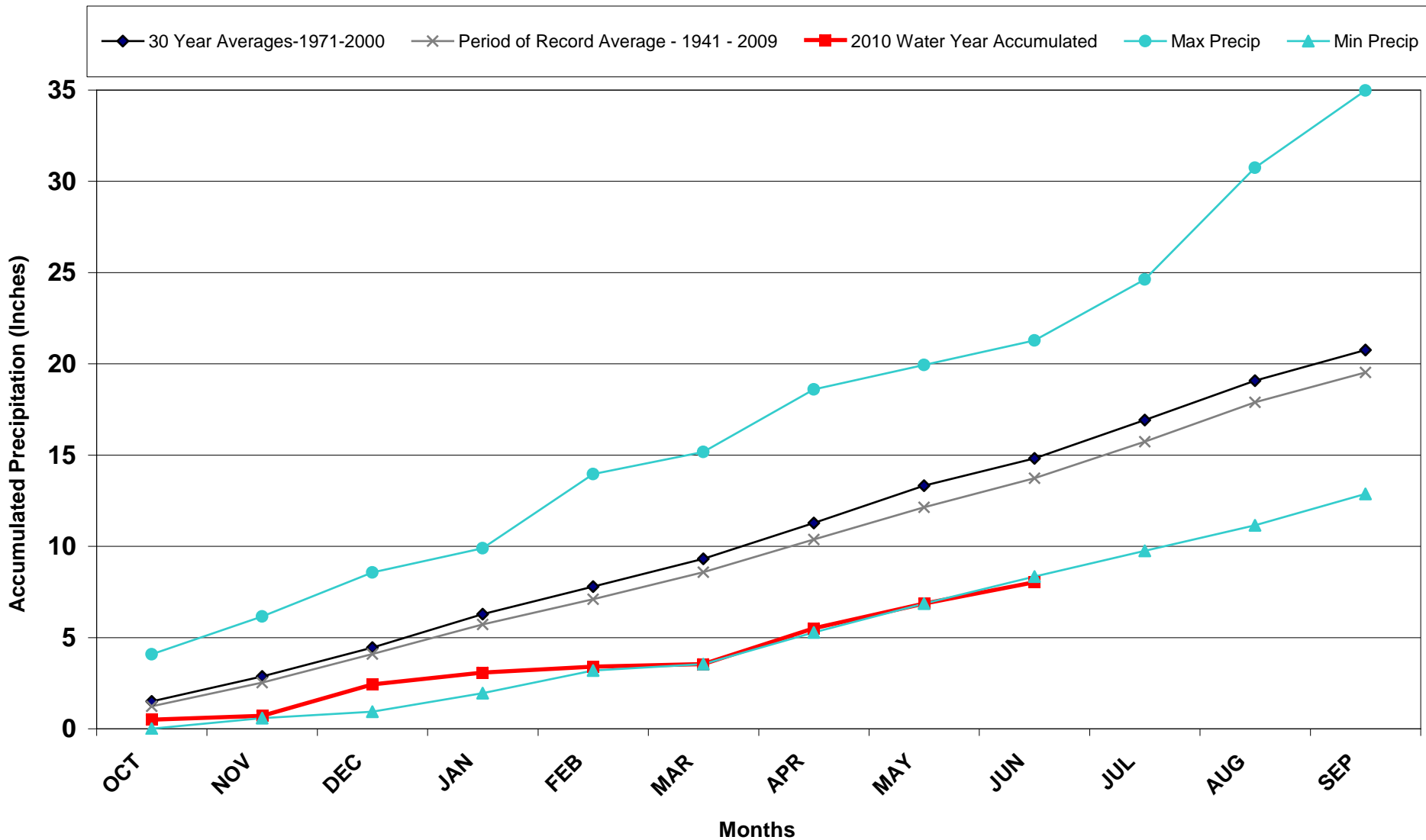


Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO



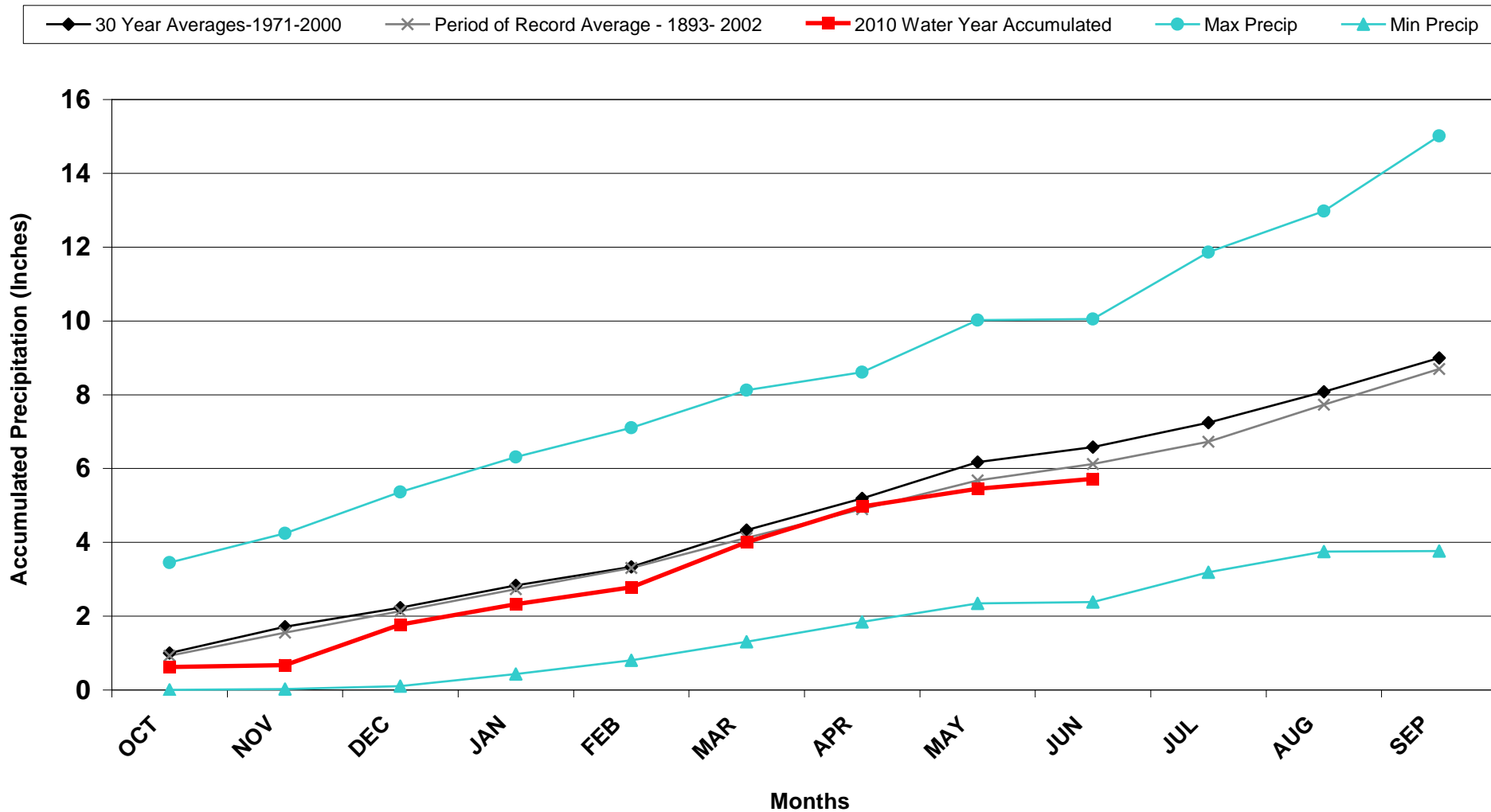
Division 1 – Grand Lake 1NW

Grand Lake 1 NW 2010 Water Year



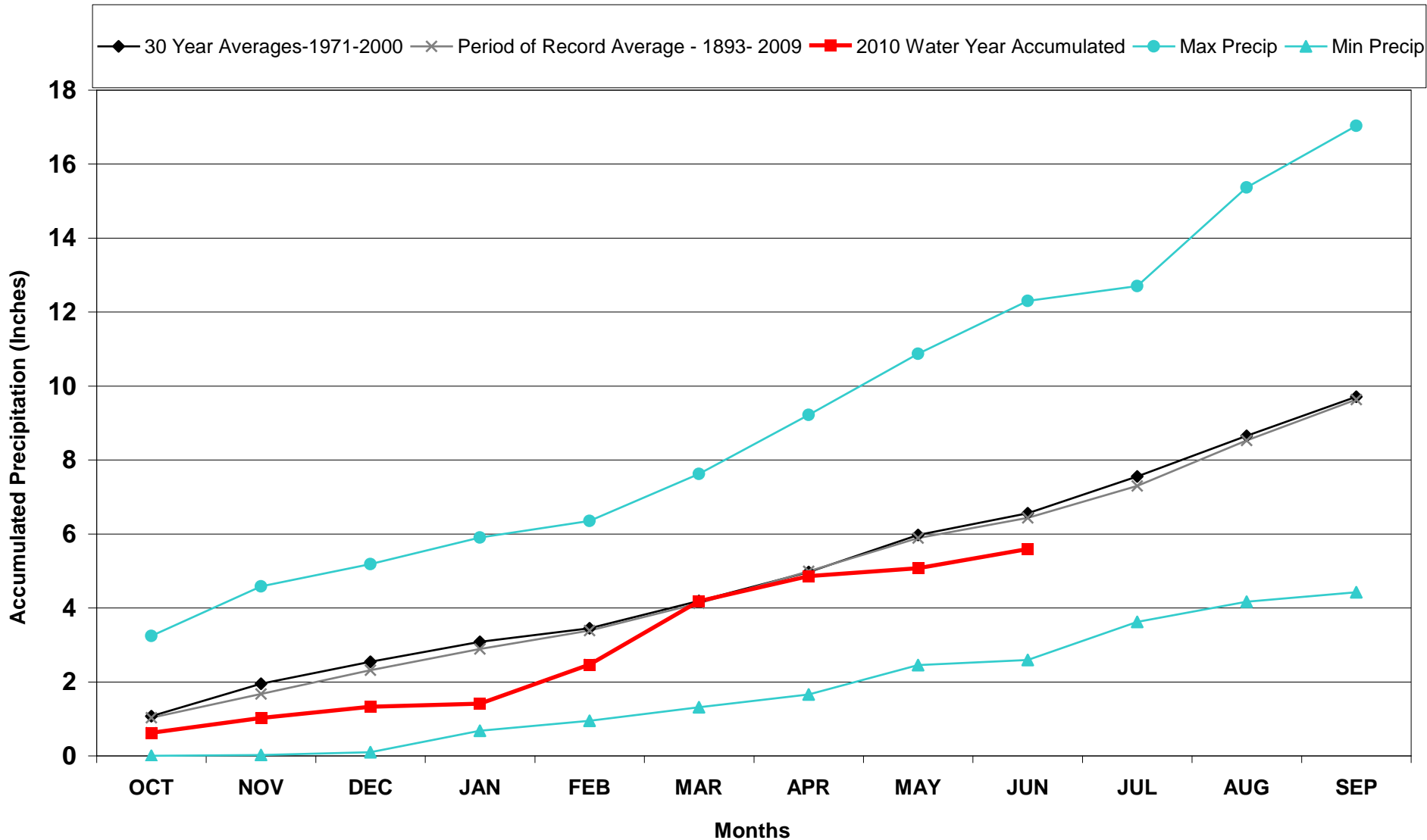
Division 2 – Grand Junction

Grand Junction WSFO 2010 Water Year



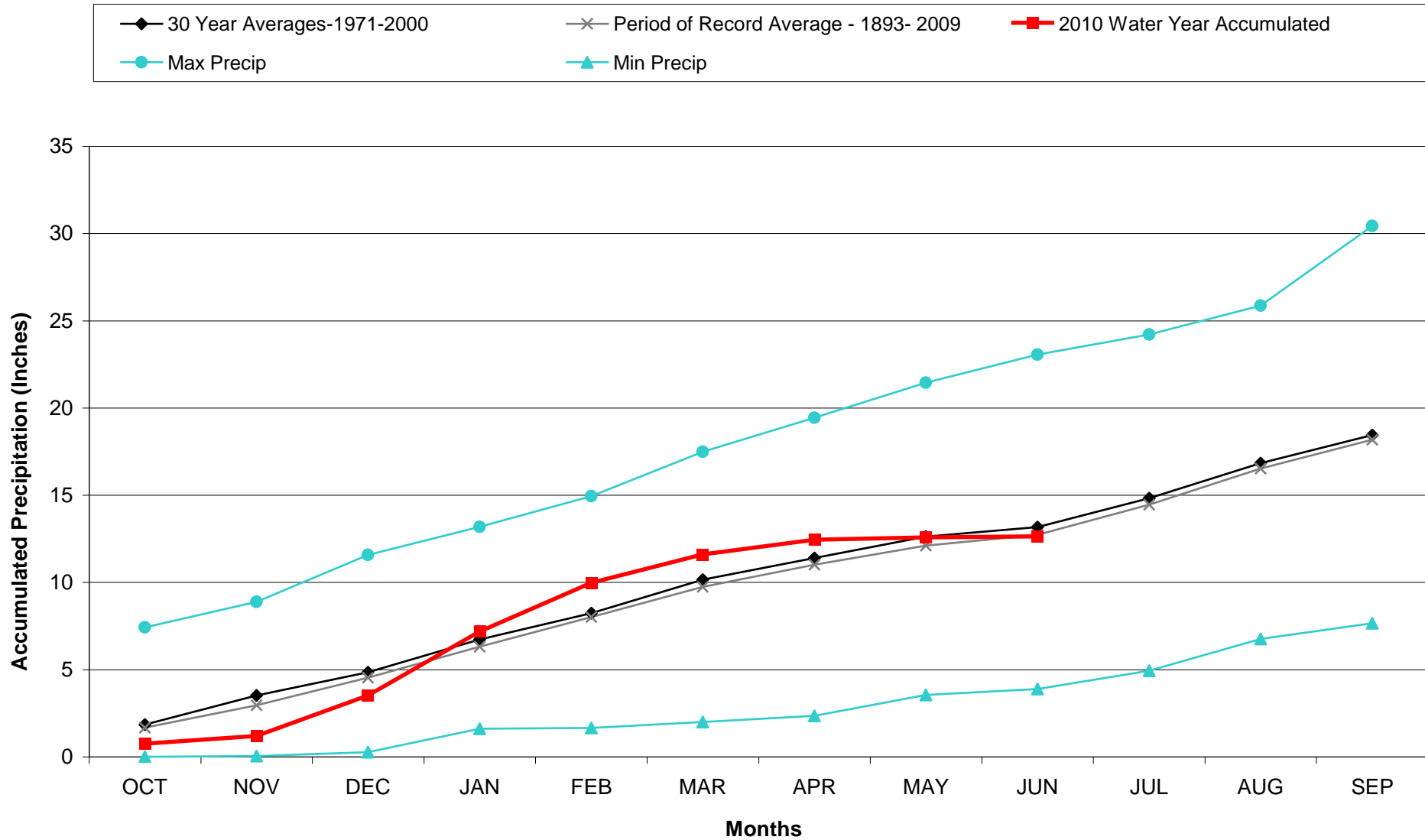
Division 3 – Montrose

Montrose #2 2010 Water Year



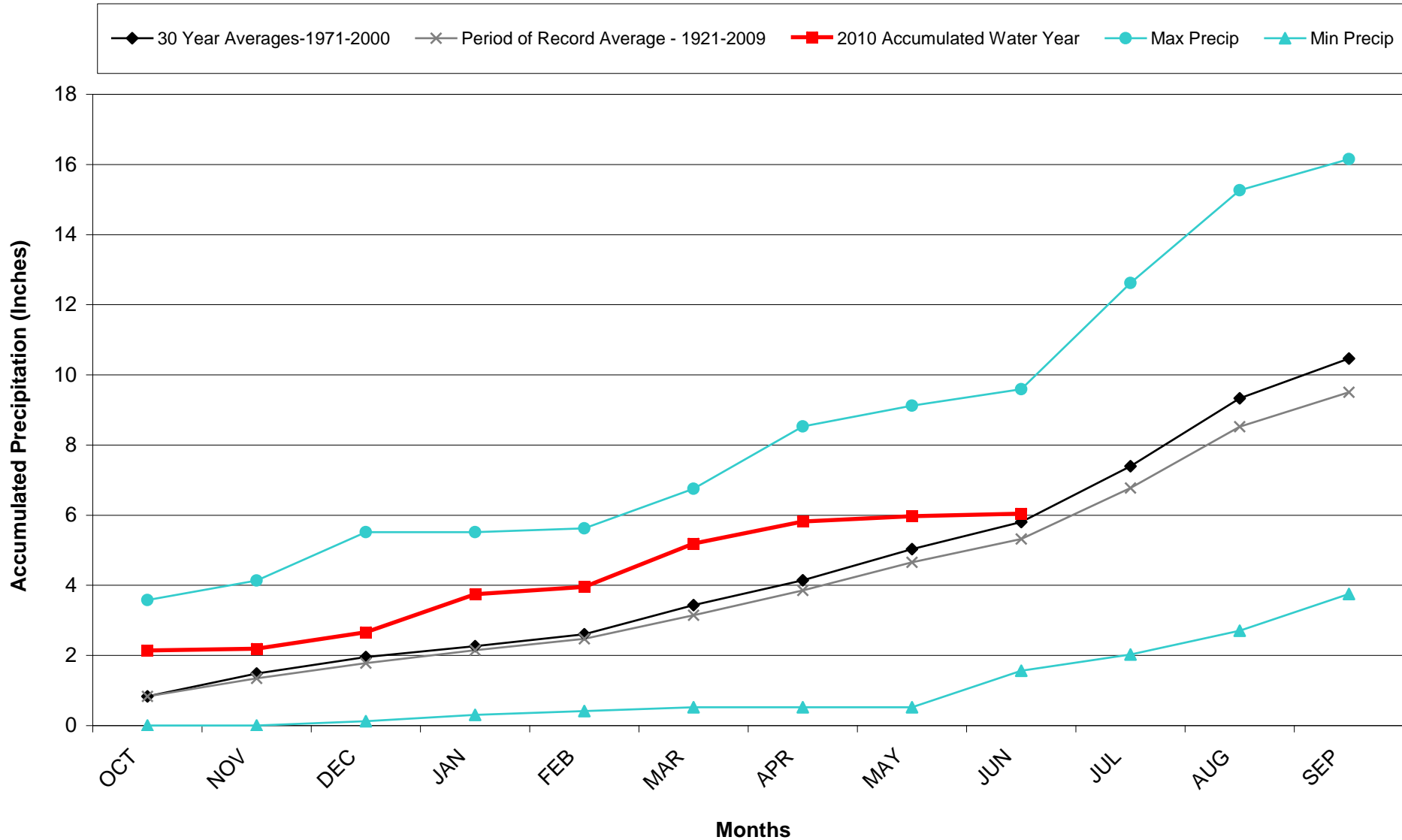
Division 3 – Mesa Verde NP

Mesa Verde NP 2010 Water Year



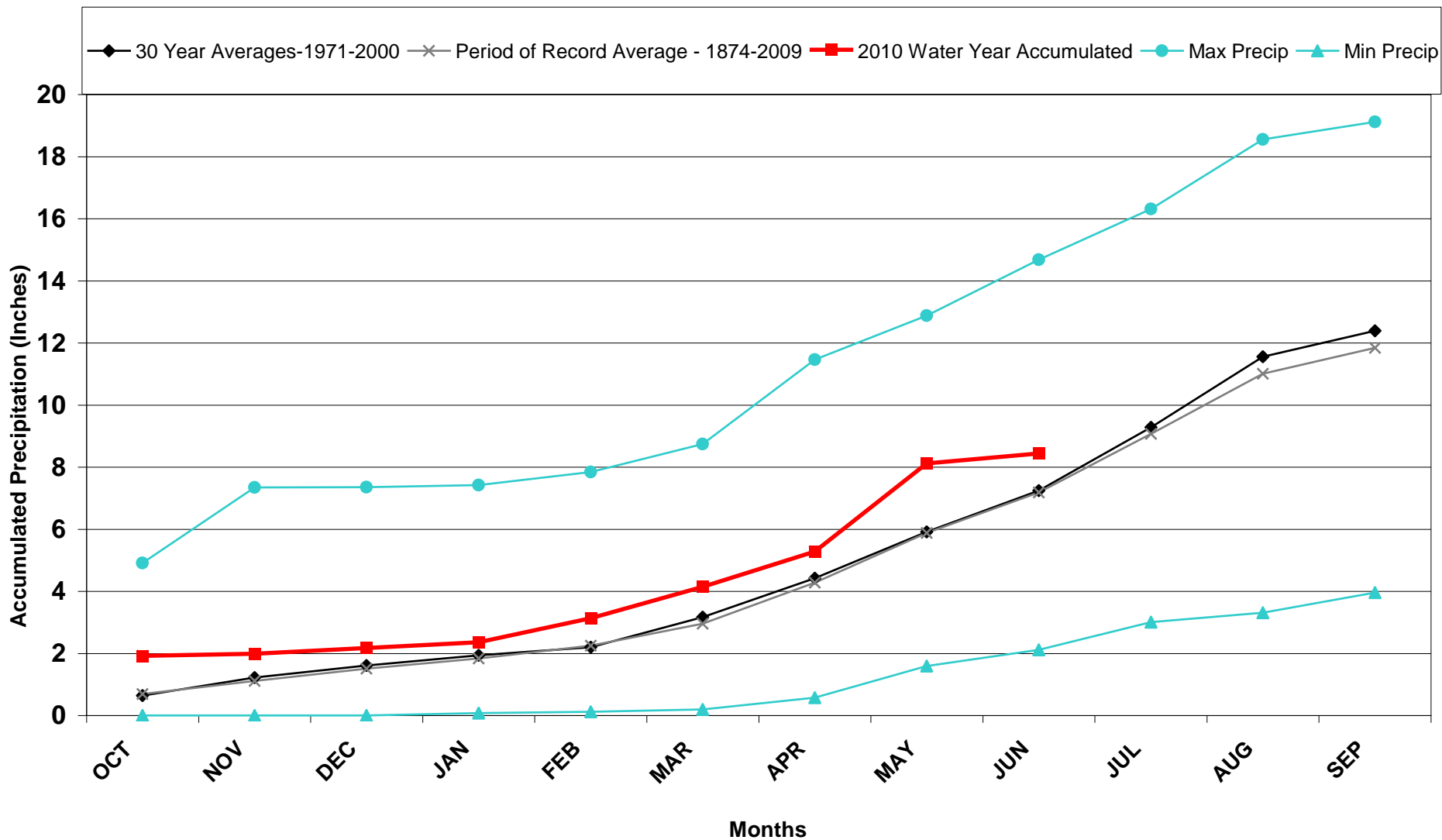
Division 4 – Del Norte

Del Norte 2010 Water Year



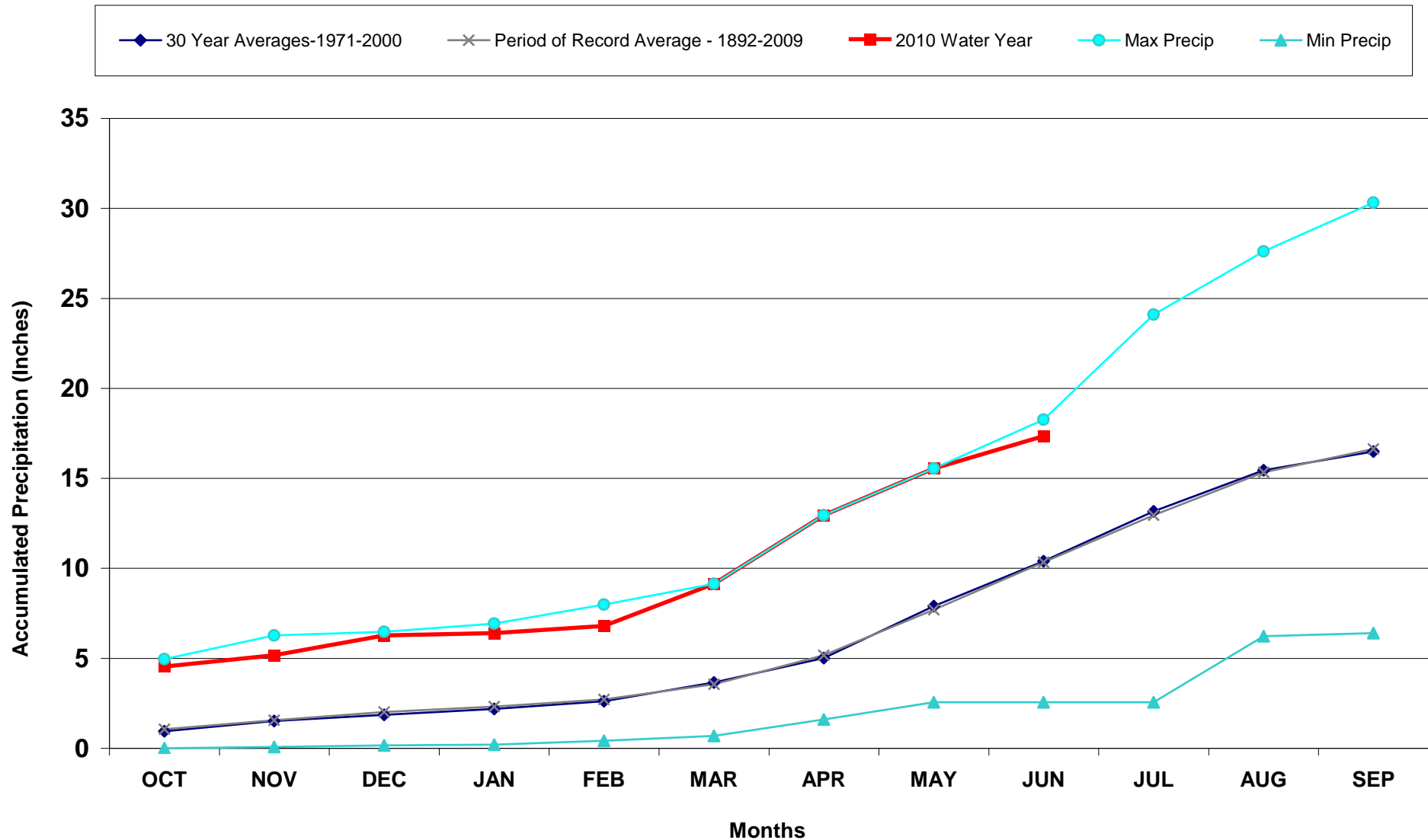
Division 5 – Pueblo

Pueblo WSO 2010 Water Year



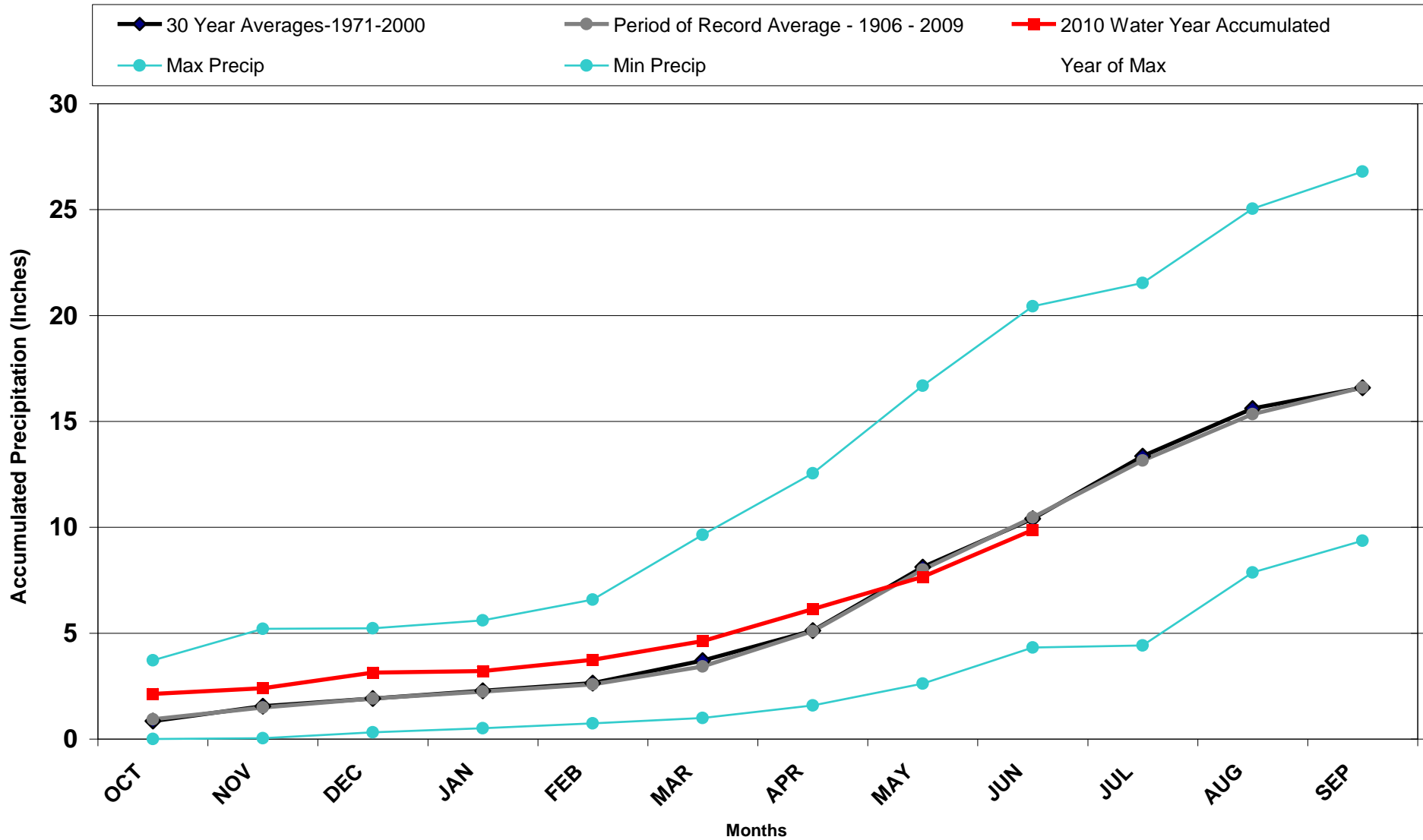
Division 6 - Burlington

Burlington 2010 Water Year



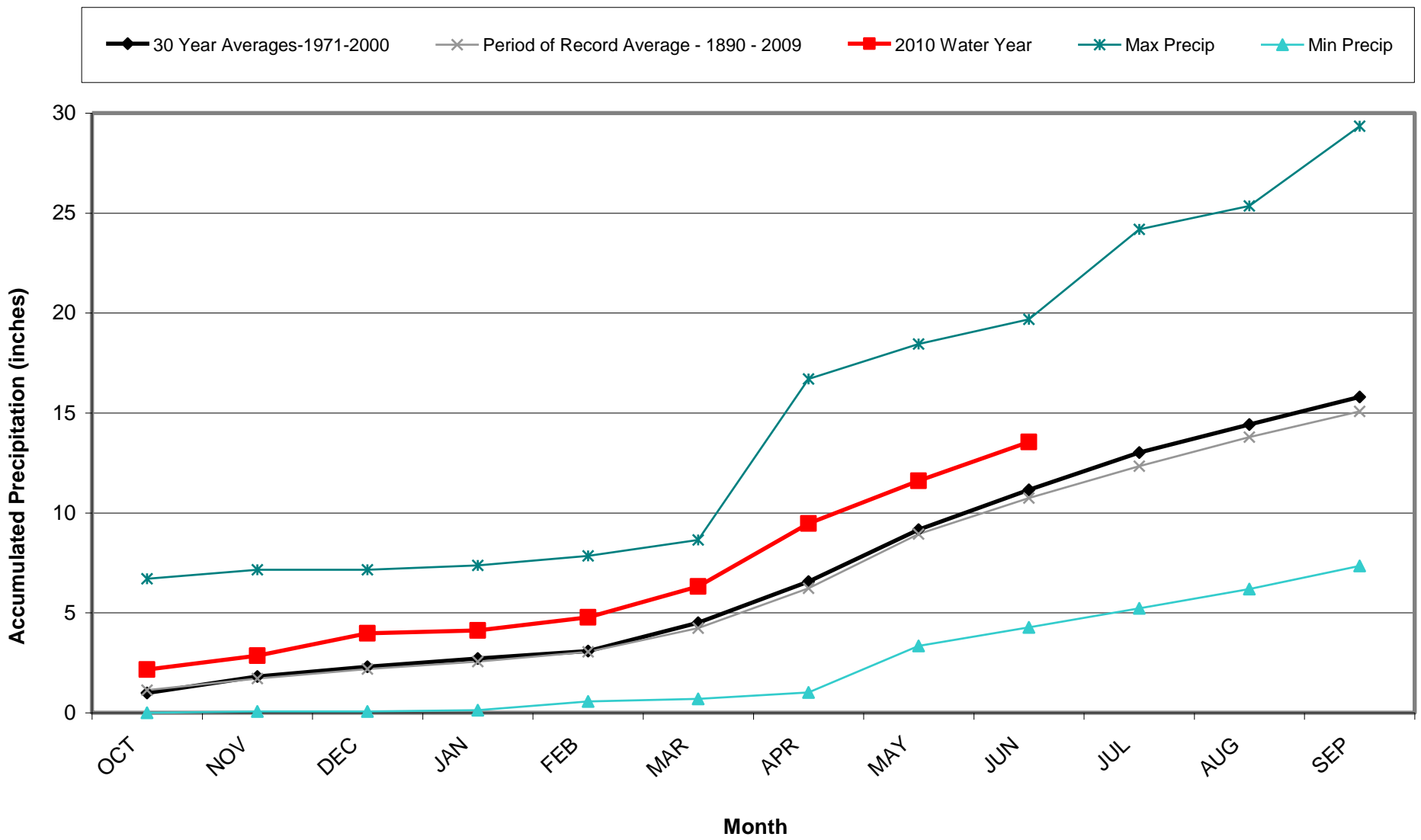
Division 7 – Akron

Akron 4E 2010 Water Year



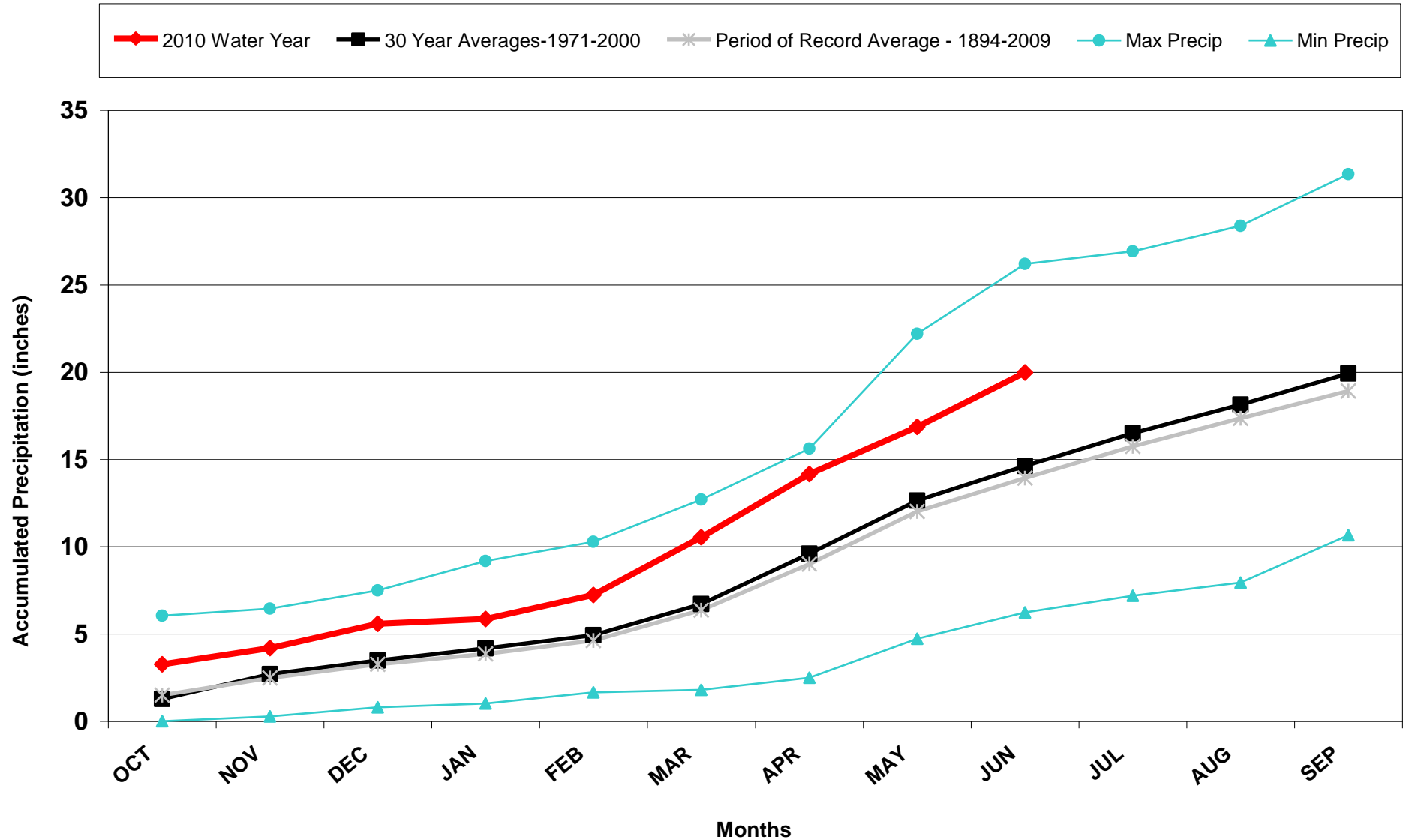
Division 8 – Fort Collins

Fort Collins 2010 Water Year



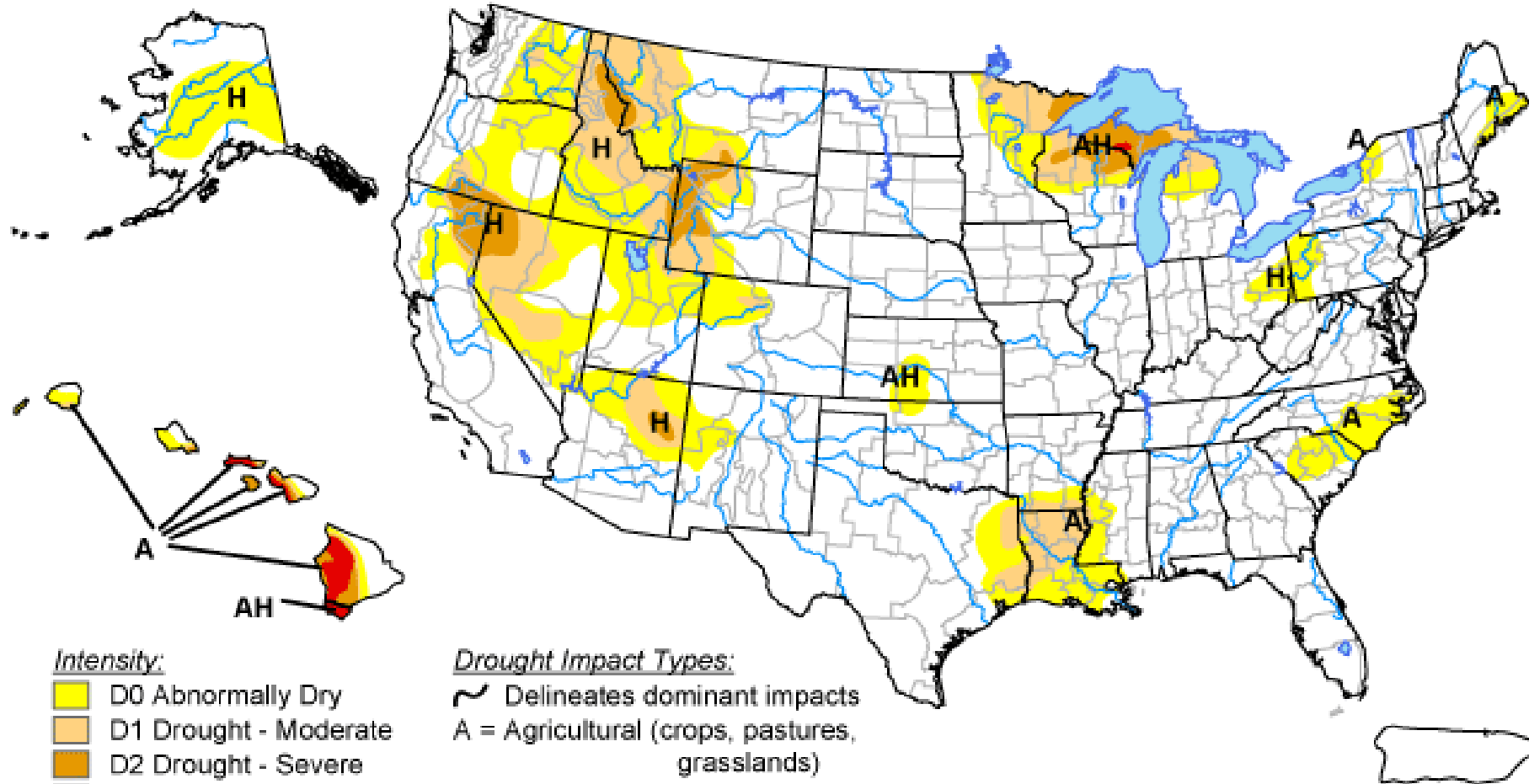
Division 8 - Boulder

Boulder 2010 Water Year








U.S. Drought Monitor


May 18, 2010
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.



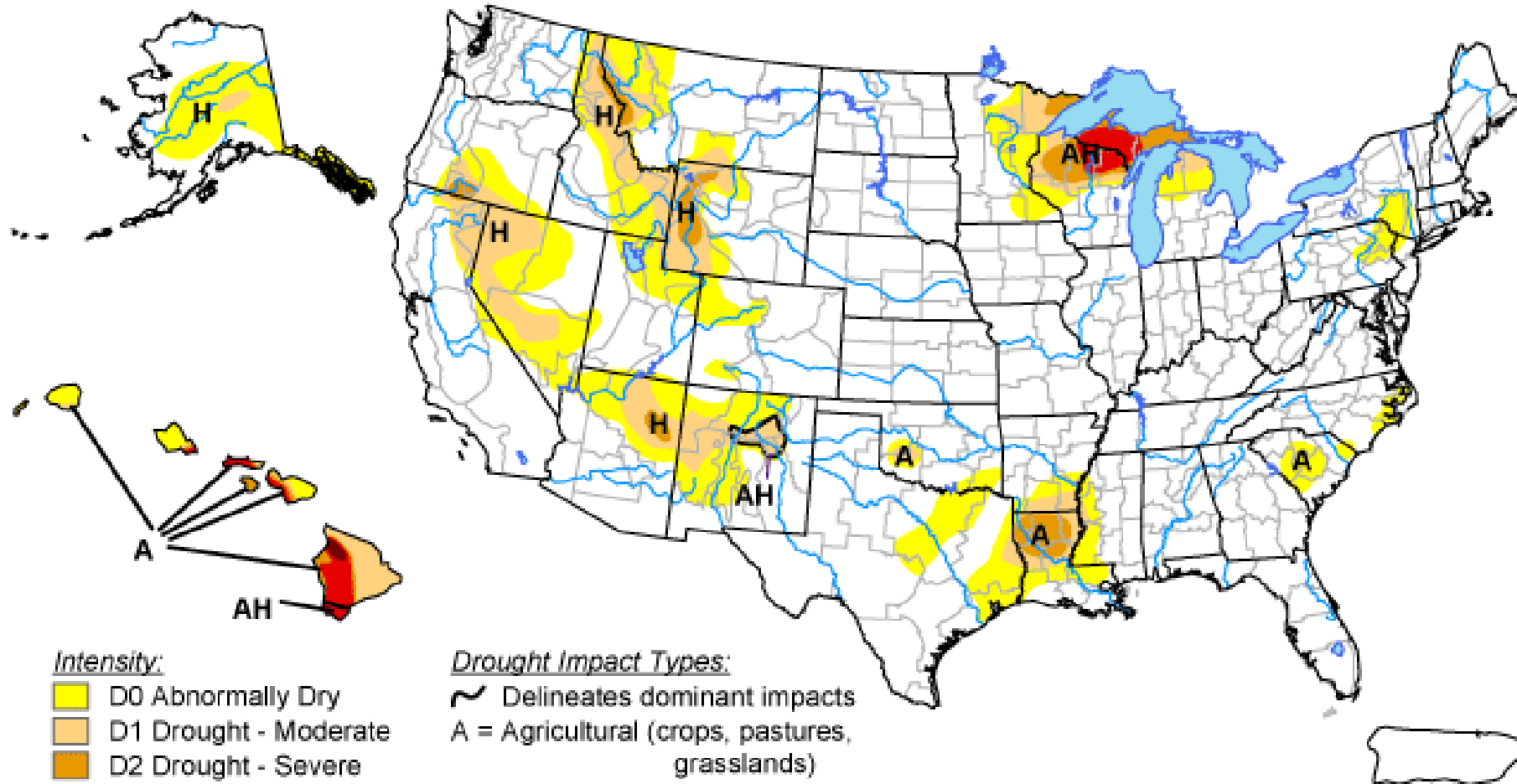
Released Thursday, May 20, 2010

Author: Eric Luebehusen, U.S. Department of Agriculture






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

U.S. Drought Monitor

June 15, 2010
Valid 8 a.m. EDT



Intensity:

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

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- 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, June 17, 2010

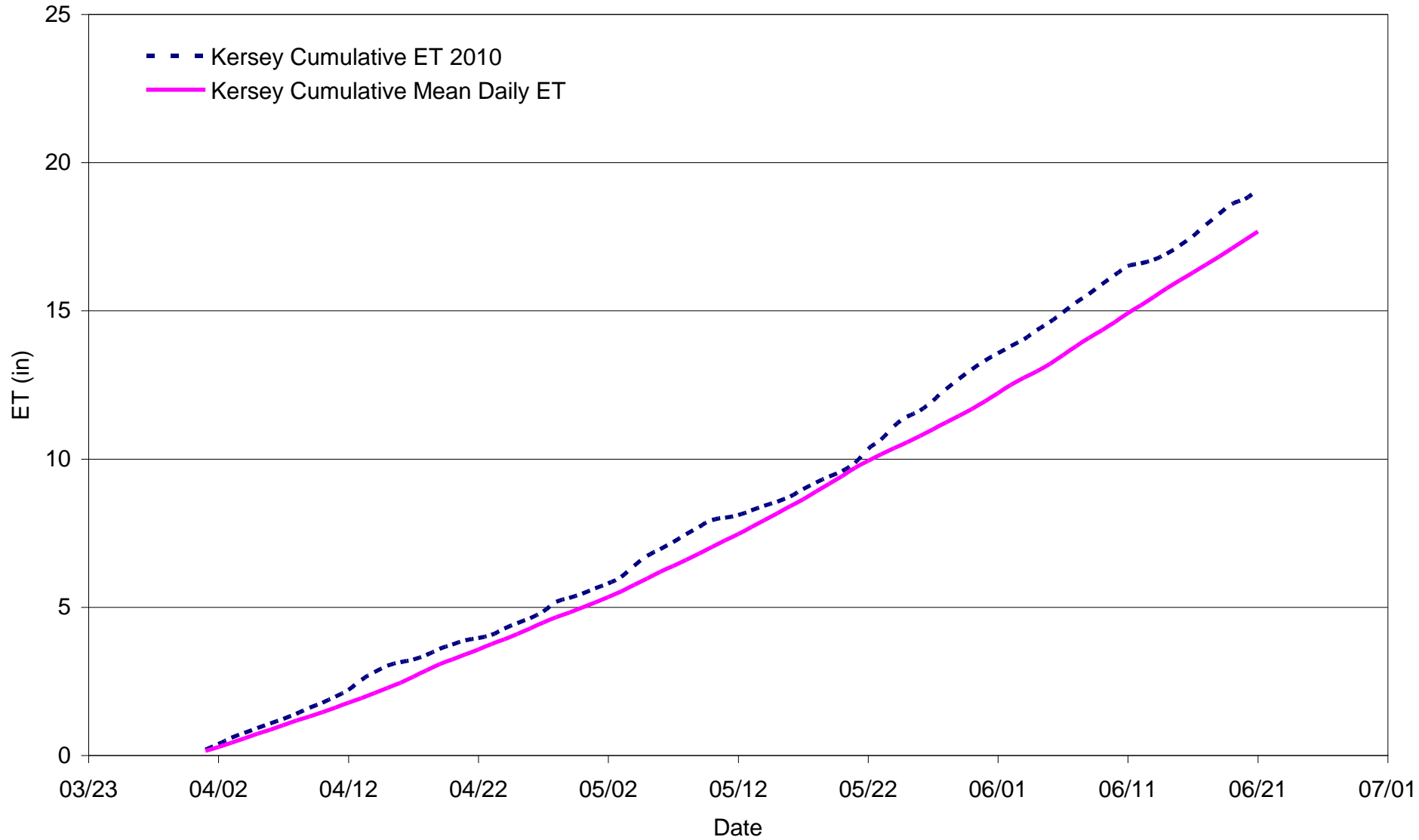
Author: Laura Edwards, Western Regional Climate Center

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

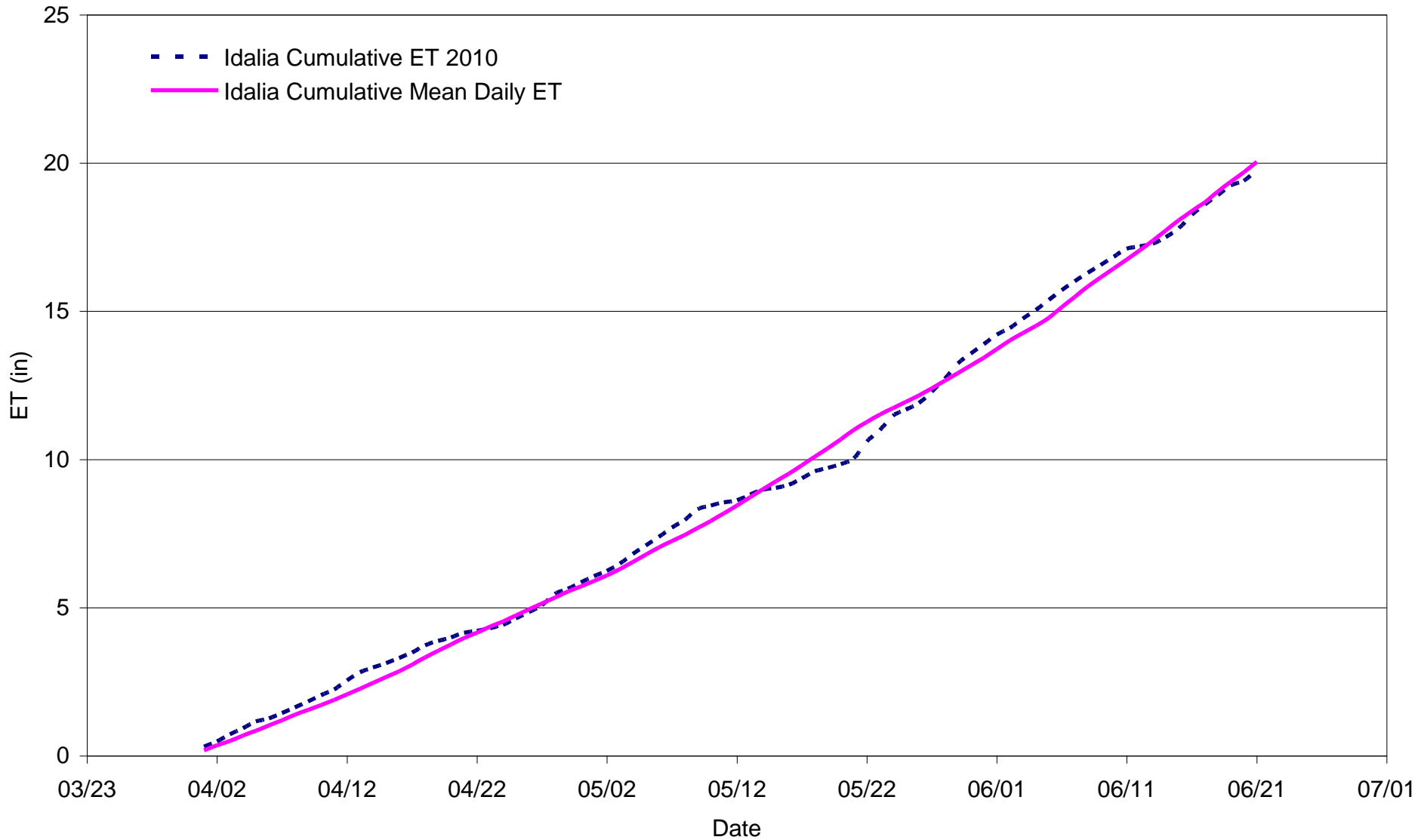
Evapotranspiration



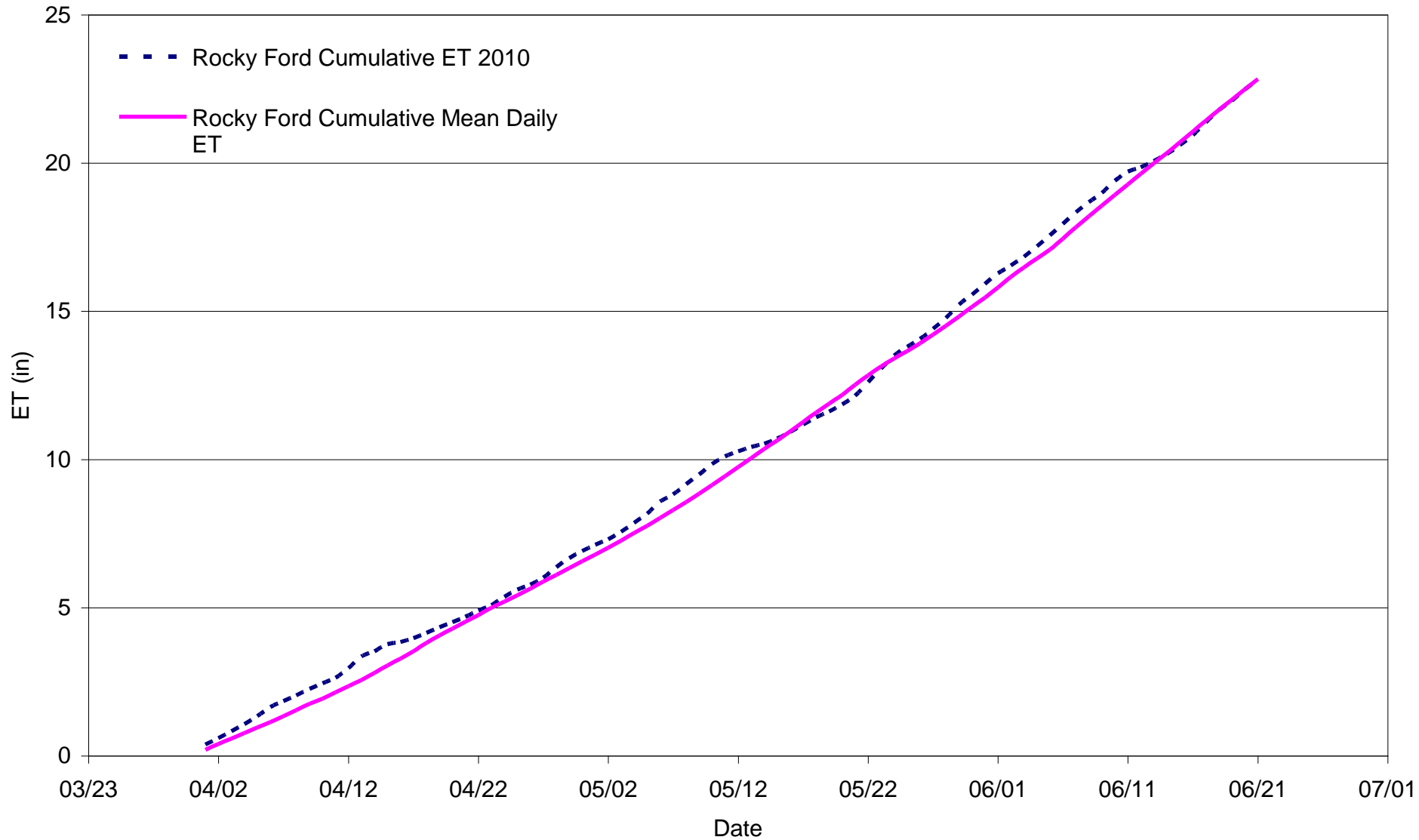
Kersey 2010 Evapotranspiration (Kimberly-Penman)



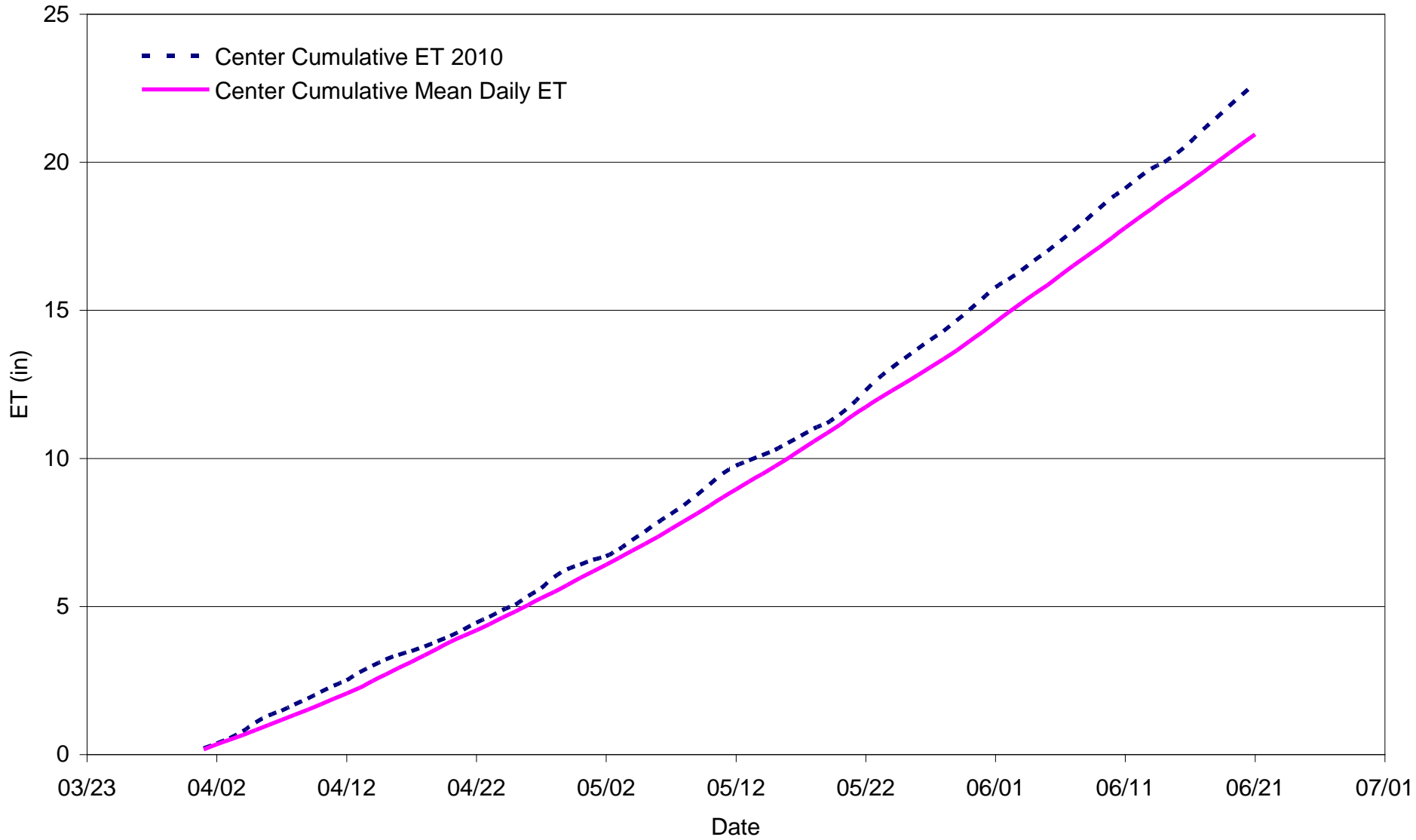
Idalia 2010 Evapotranspiration (Kimberly-Penman)



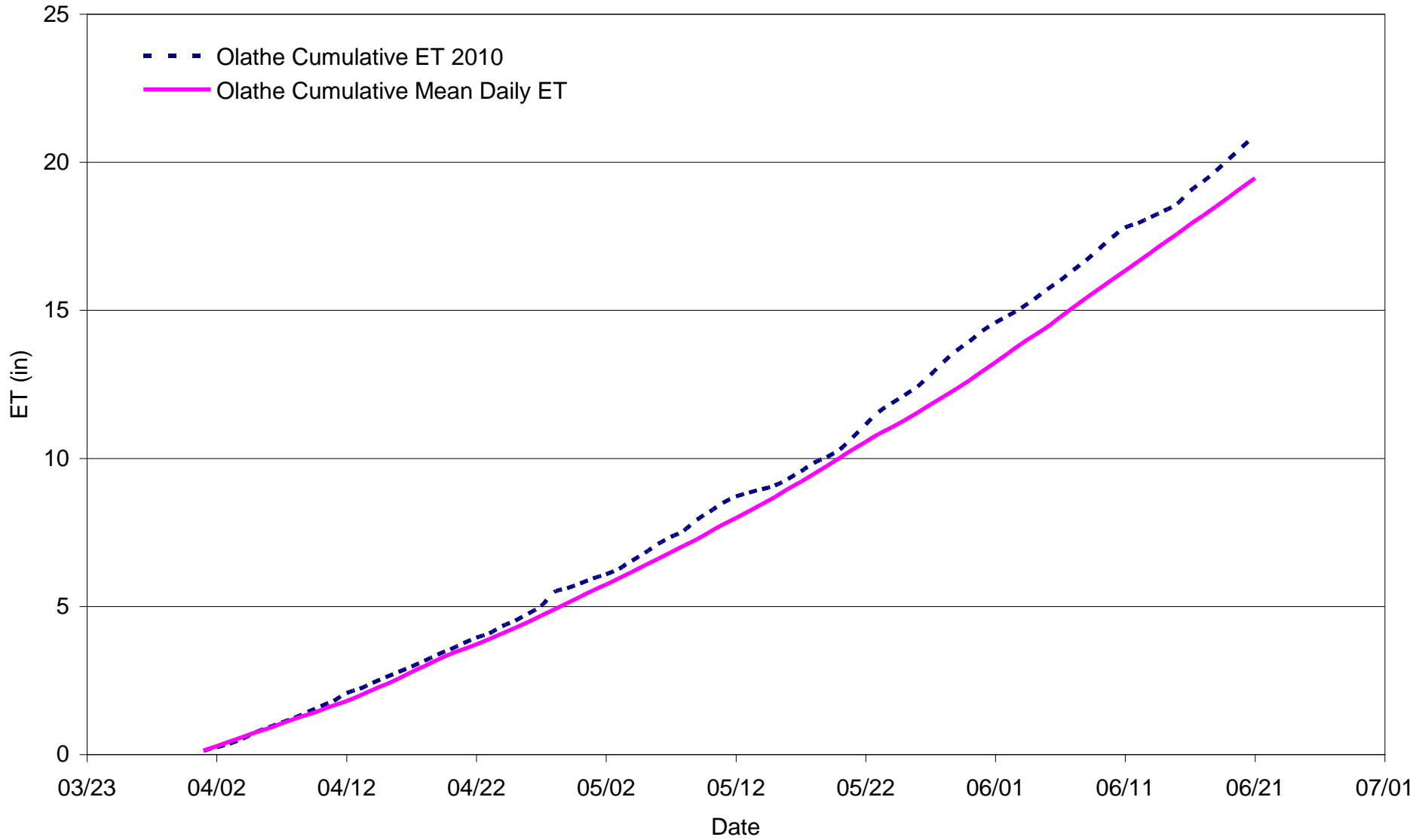
Rocky Ford 2010 Evapotranspiration (Kimberly-Penman)



Center 2010 Evapotranspiration (Kimberly-Penman)



Olathe 2010 Evapotranspiration (Kimberly-Penman)



Colorado Climate Center

Data and Power Point Presentations available for downloading

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



Knowledge to Go Places

