



Climate Update

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Colorado State University

Presented by Reagan Waskom

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

**Presented to Water Availability Task Force,
Denver, CO, May 15, 2007**

Prepared by Odie Bliss

What has happened since we last met?

Weather Events:

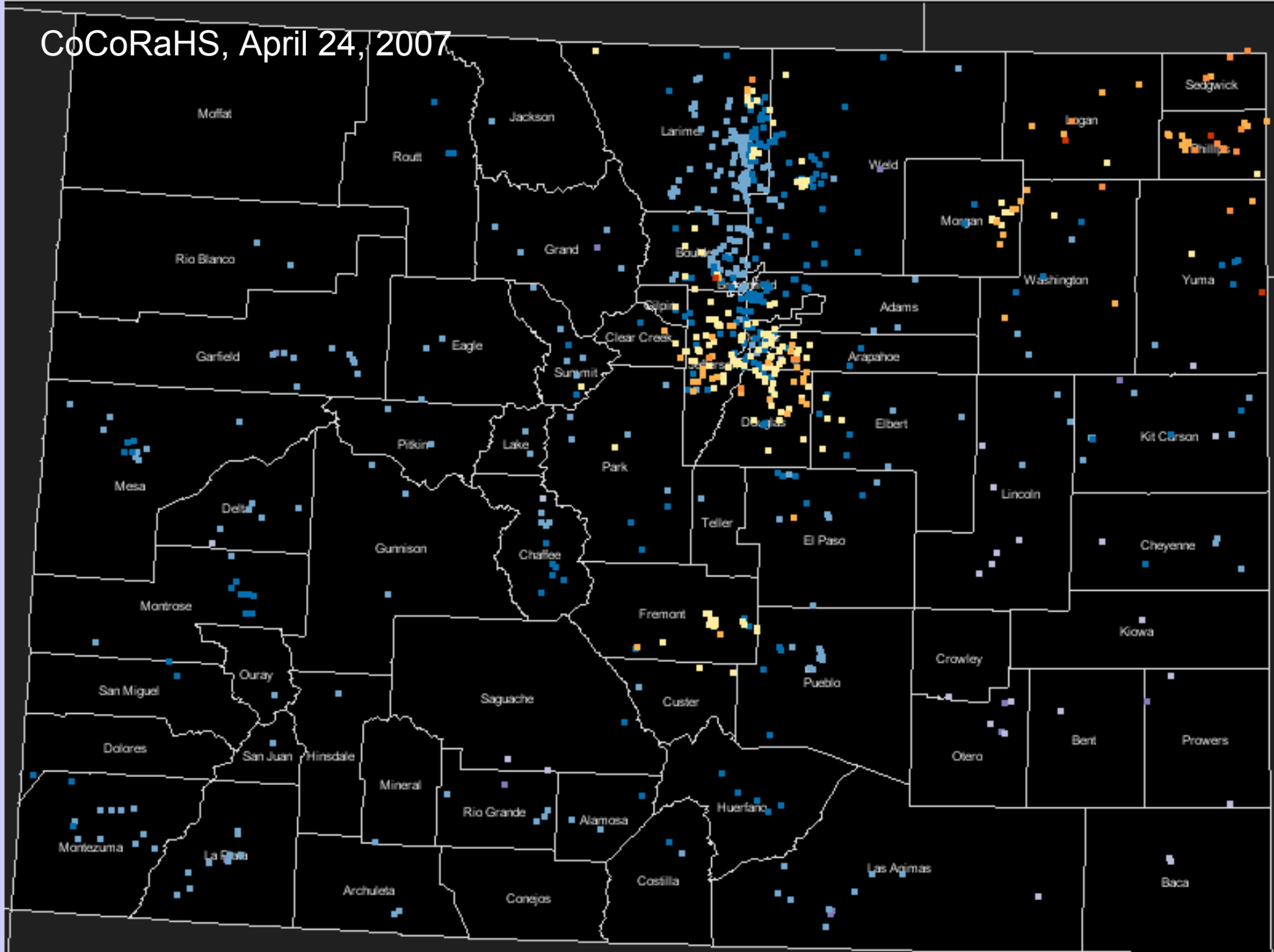
- April 23 – 25, Central and Northeast Colorado major storm
- April 26 – 30, Dry and warming
- May 1, Southern Colorado major storm
- May 4 – 6, Front Range major storm
- May 8 – 14, Very warm, snowmelt underway

Daily Precipitation (inches x.xx), for the 24 hour period ending ~7:00 am

Colorado 4/24/2007

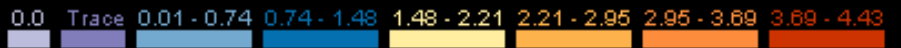


CoCoRaHS, April 24, 2007

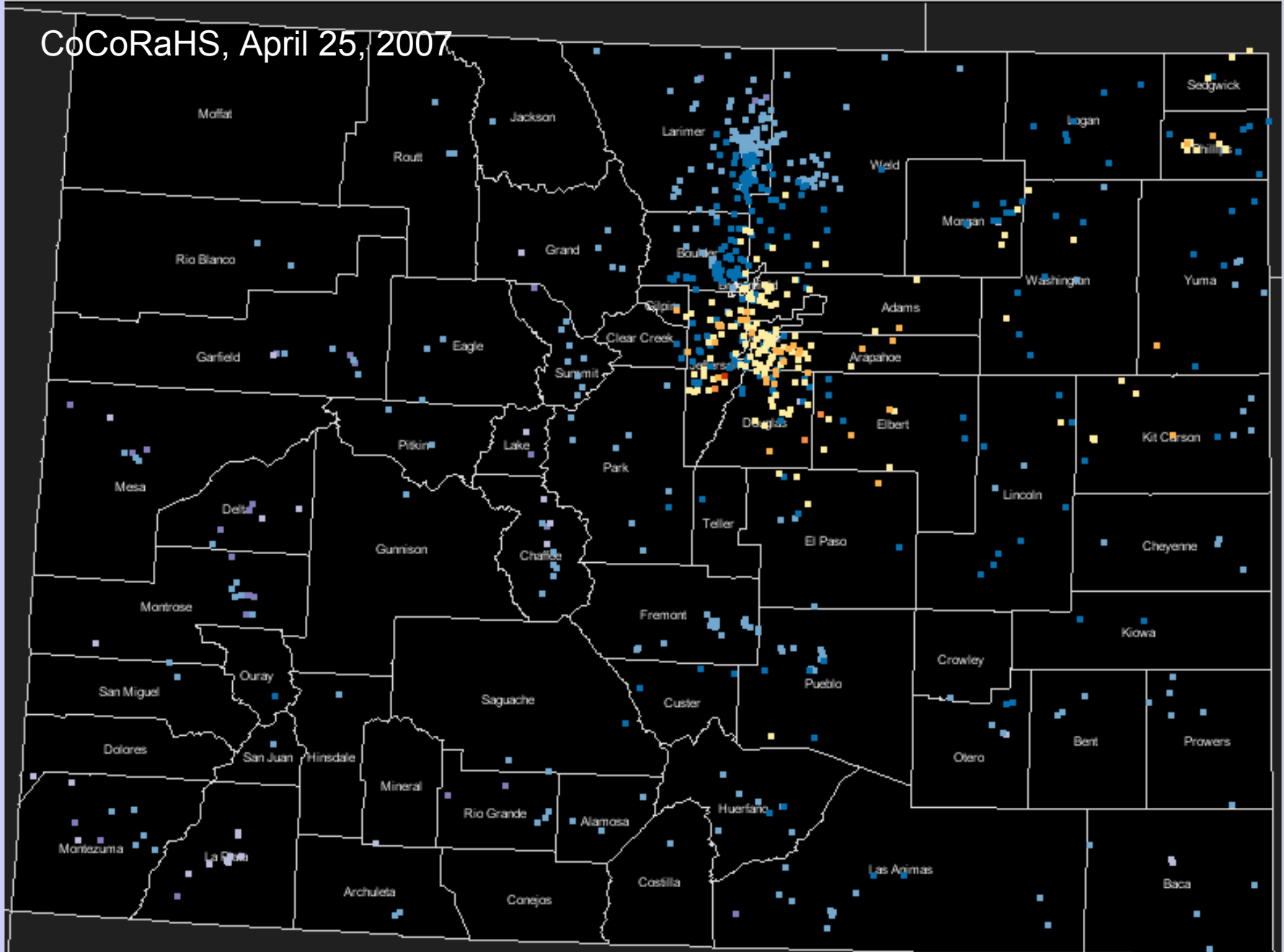


Daily Precipitation (inches x.xx), for the 24 hour period ending ~7:00 am

Colorado 4/25/2007



CoCoRaHS, April 25, 2007

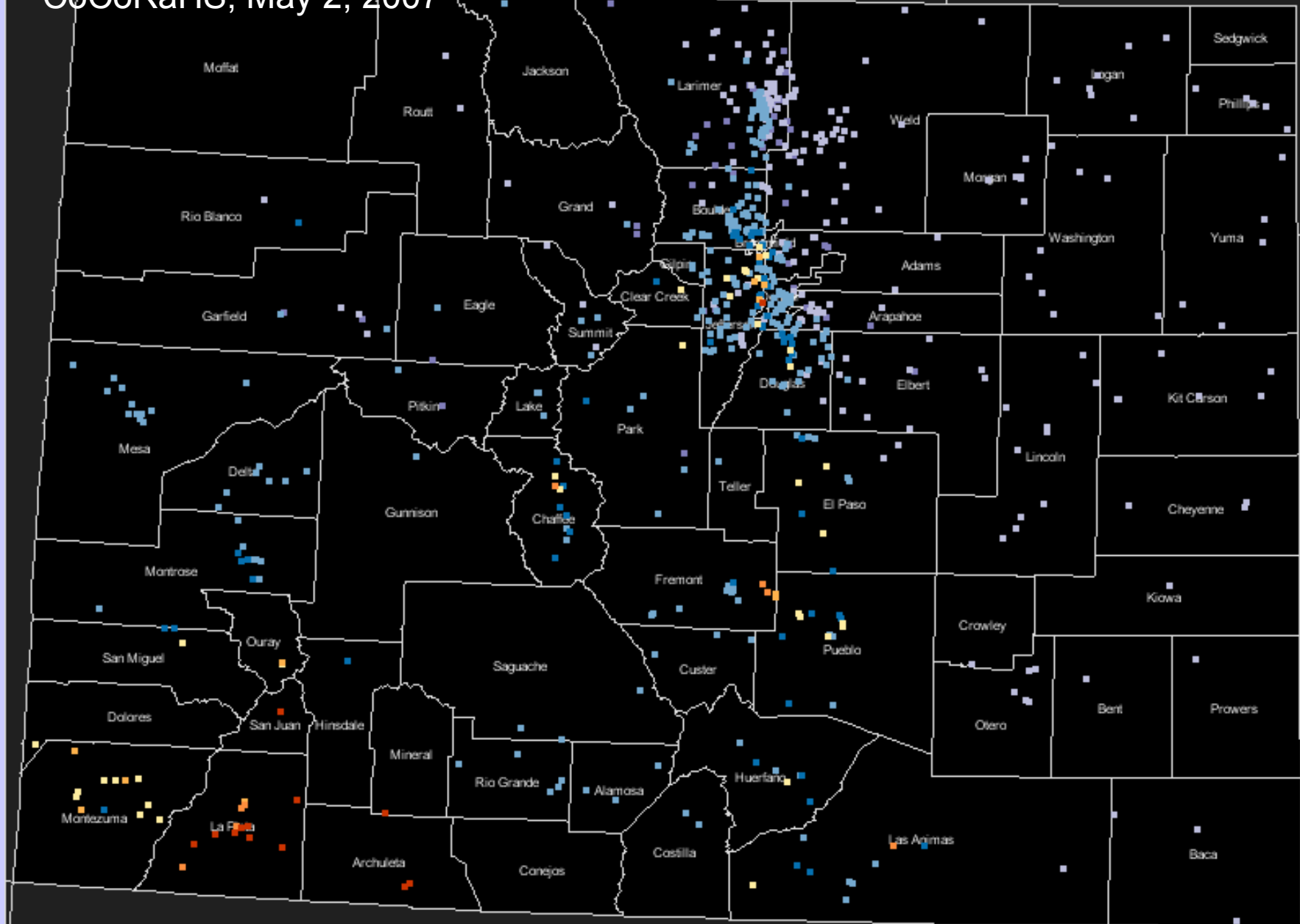


Daily Precipitation (inches x.xx), for the 24 hour period ending ~7:00 am

Colorado 5/2/2007

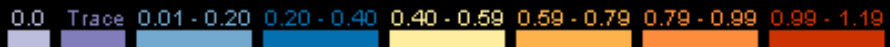


CoCoRaHS, May 2, 2007

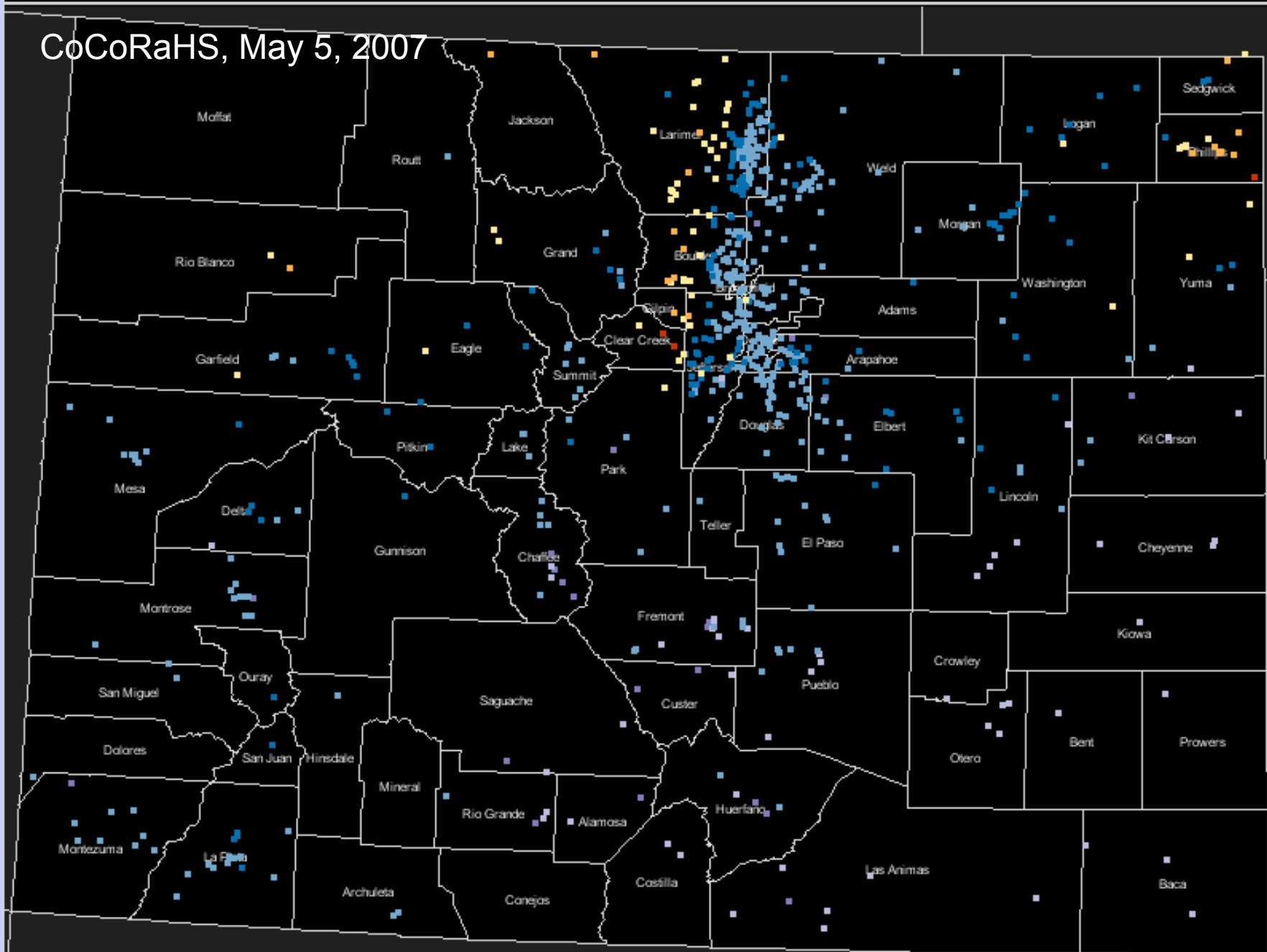


Daily Precipitation (inches x.xx), for the 24 hour period ending ~7:00 am

Colorado 5/5/2007



CoCoRaHS, May 5, 2007

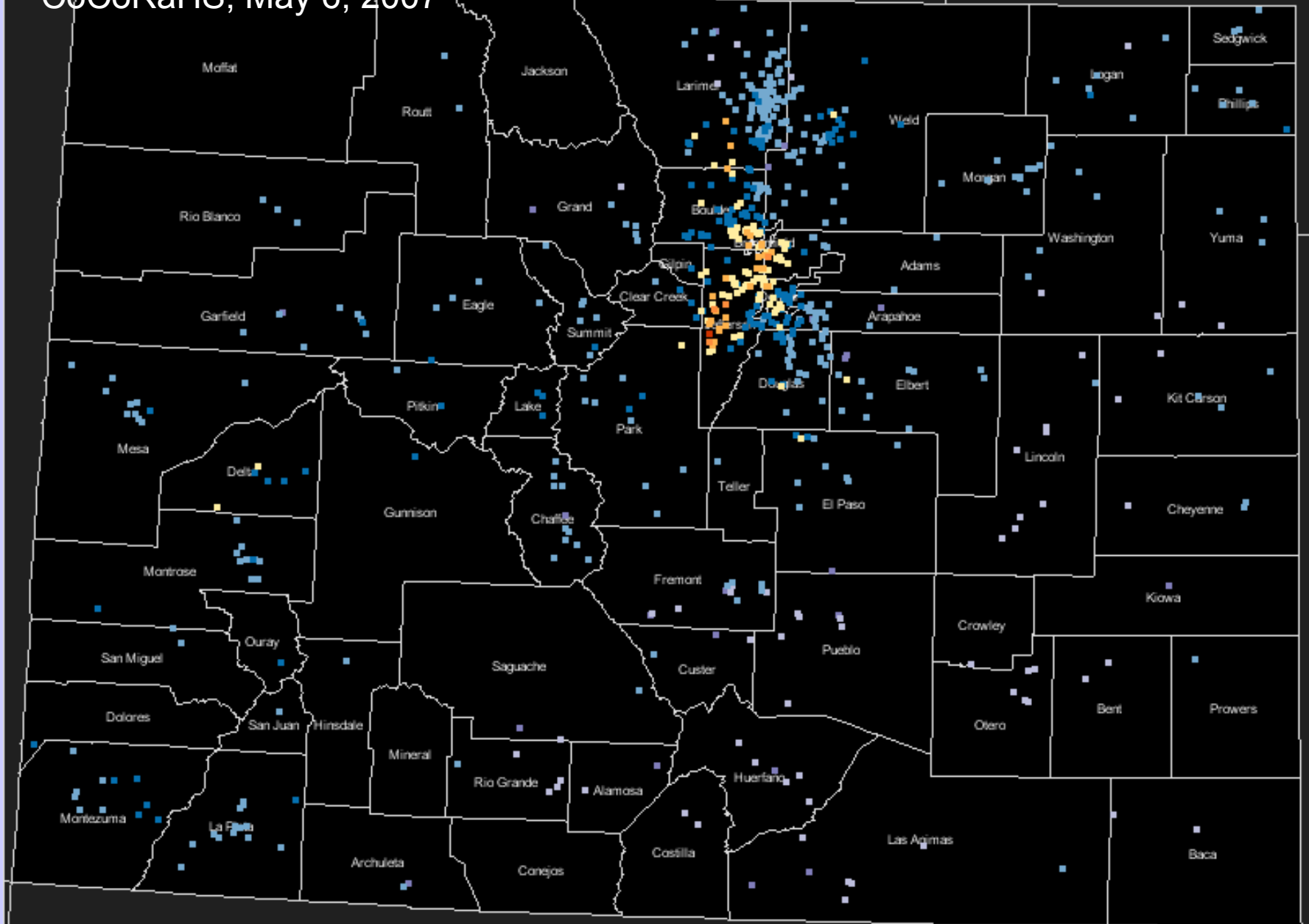


Daily Precipitation (inches x.xx), for the 24 hour period ending ~7:00 am

Colorado 5/6/2007

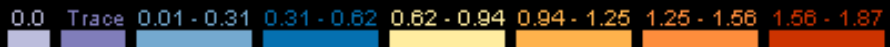


CoCoRaHS, May 6, 2007

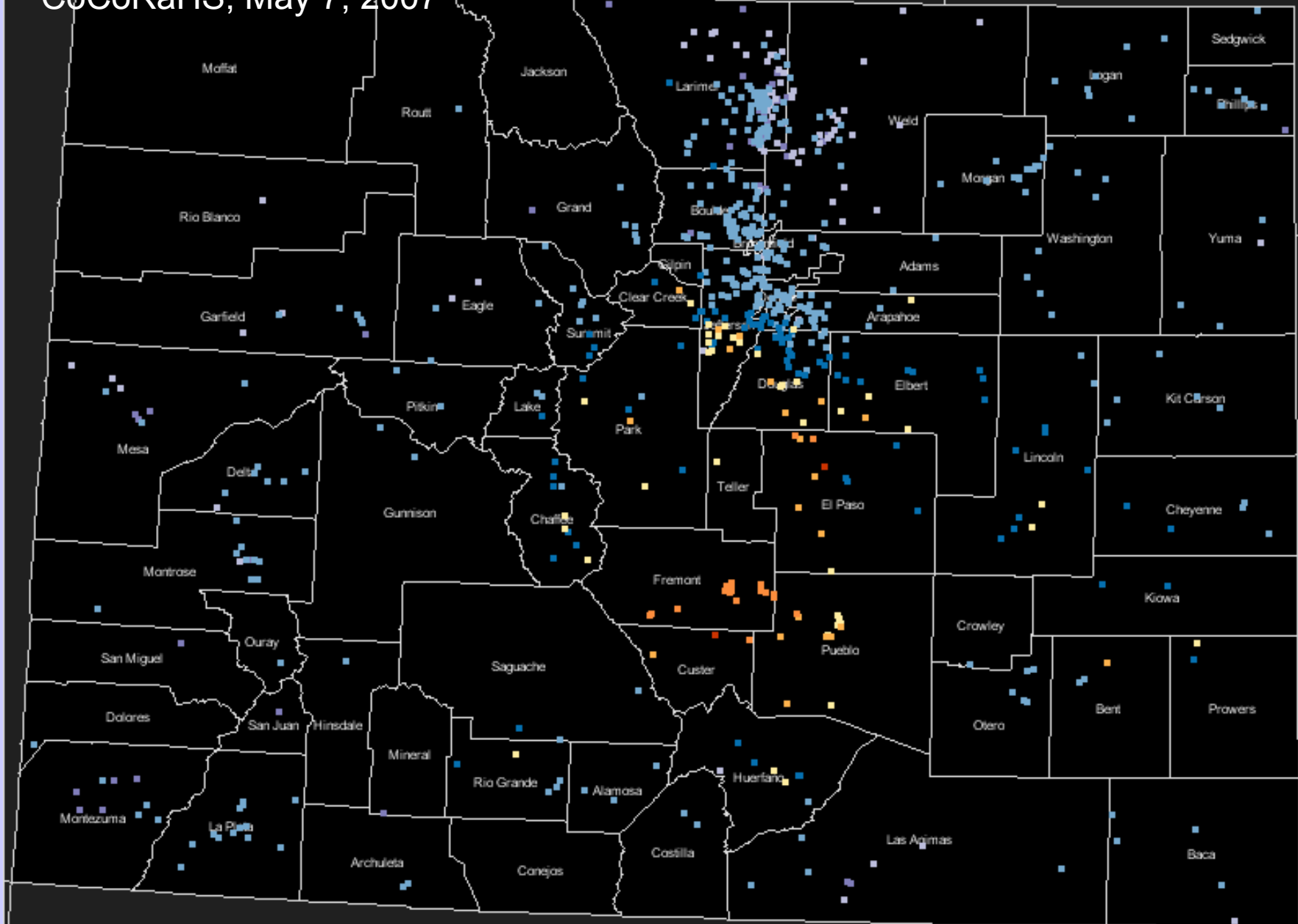


Daily Precipitation (inches x.xx), for the 24 hour period ending ~7:00 am

Colorado 5/7/2007

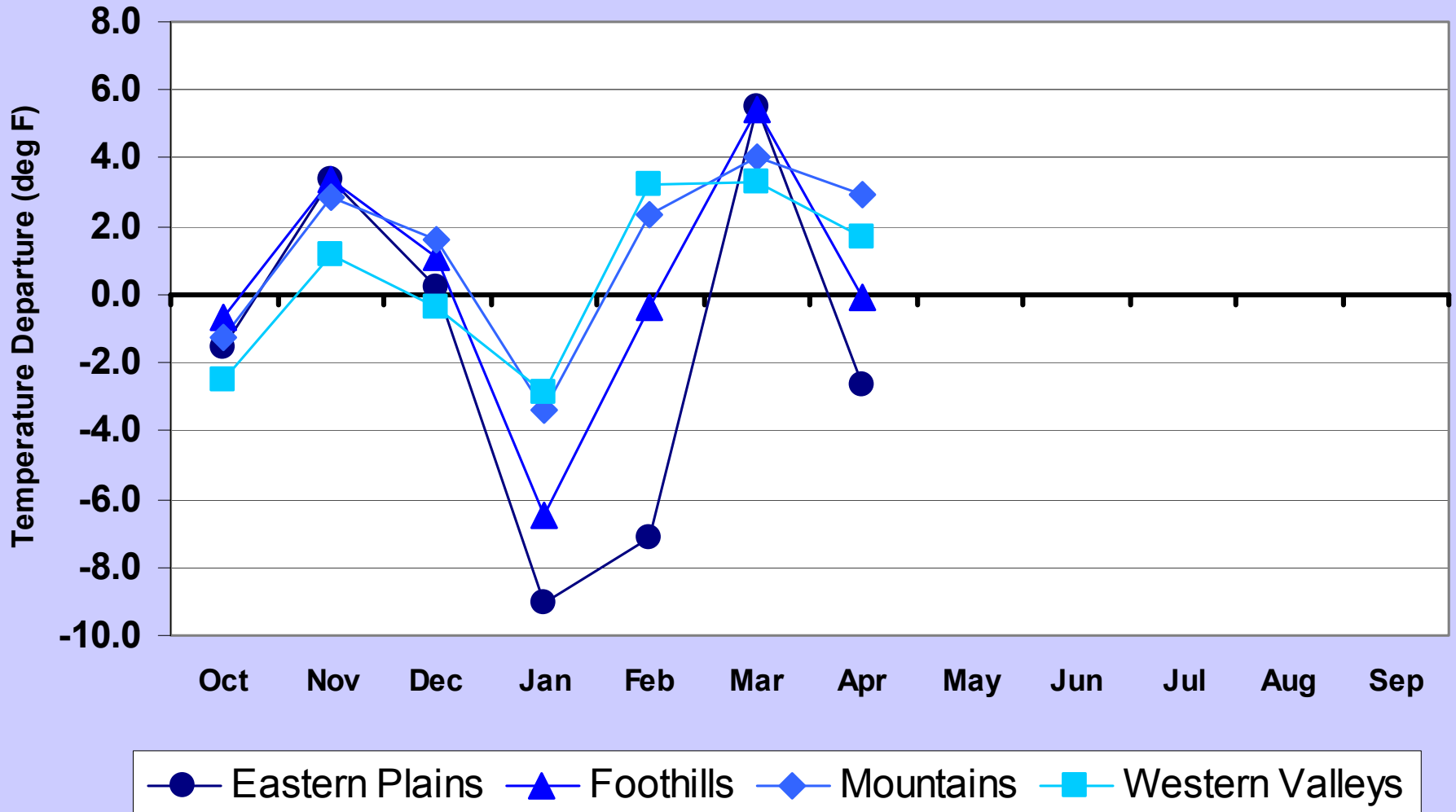


CoCoRaHS, May 7, 2007



Water Year 2007 Temperature Departures

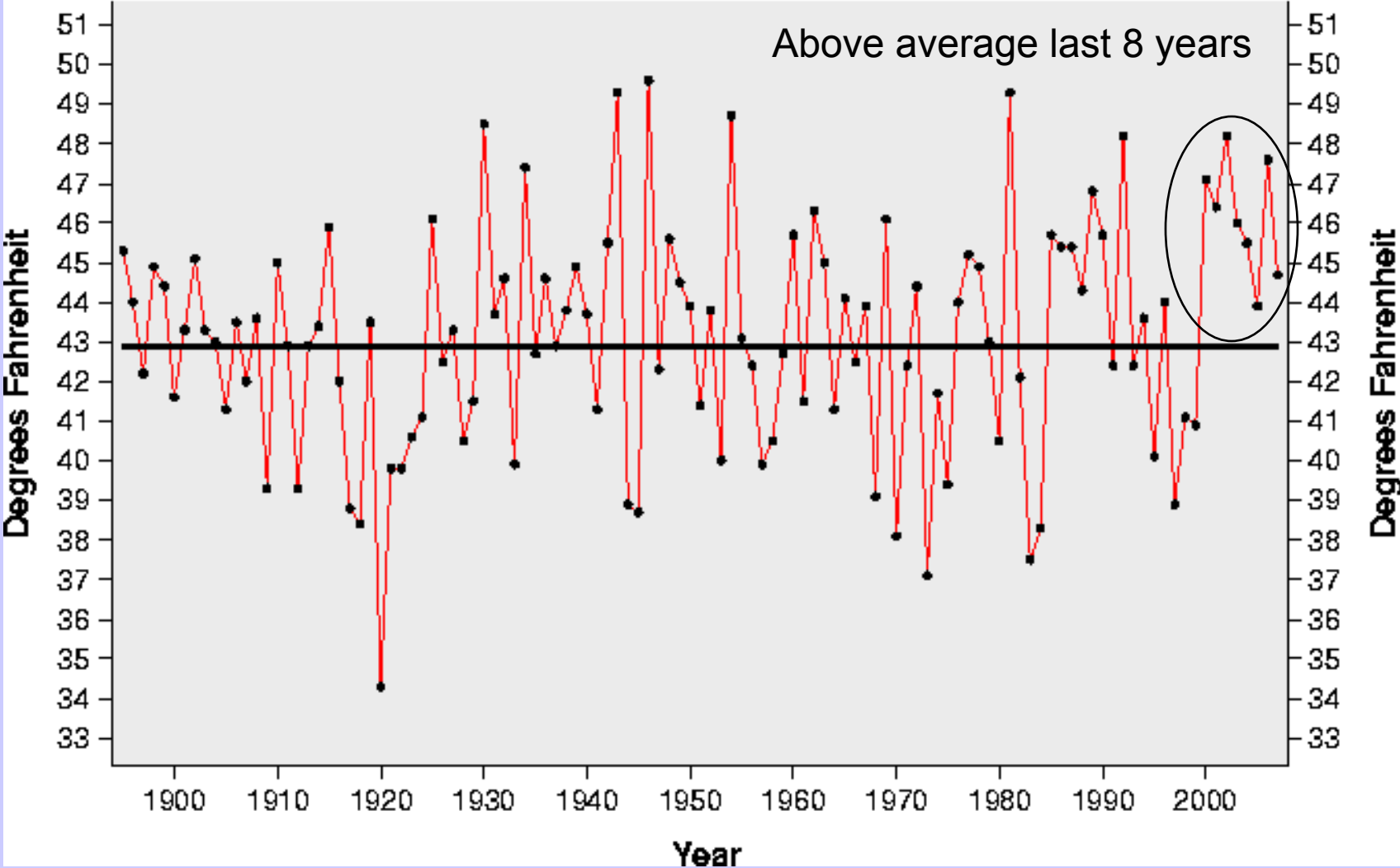
Water Year 2007 Temperature Departures



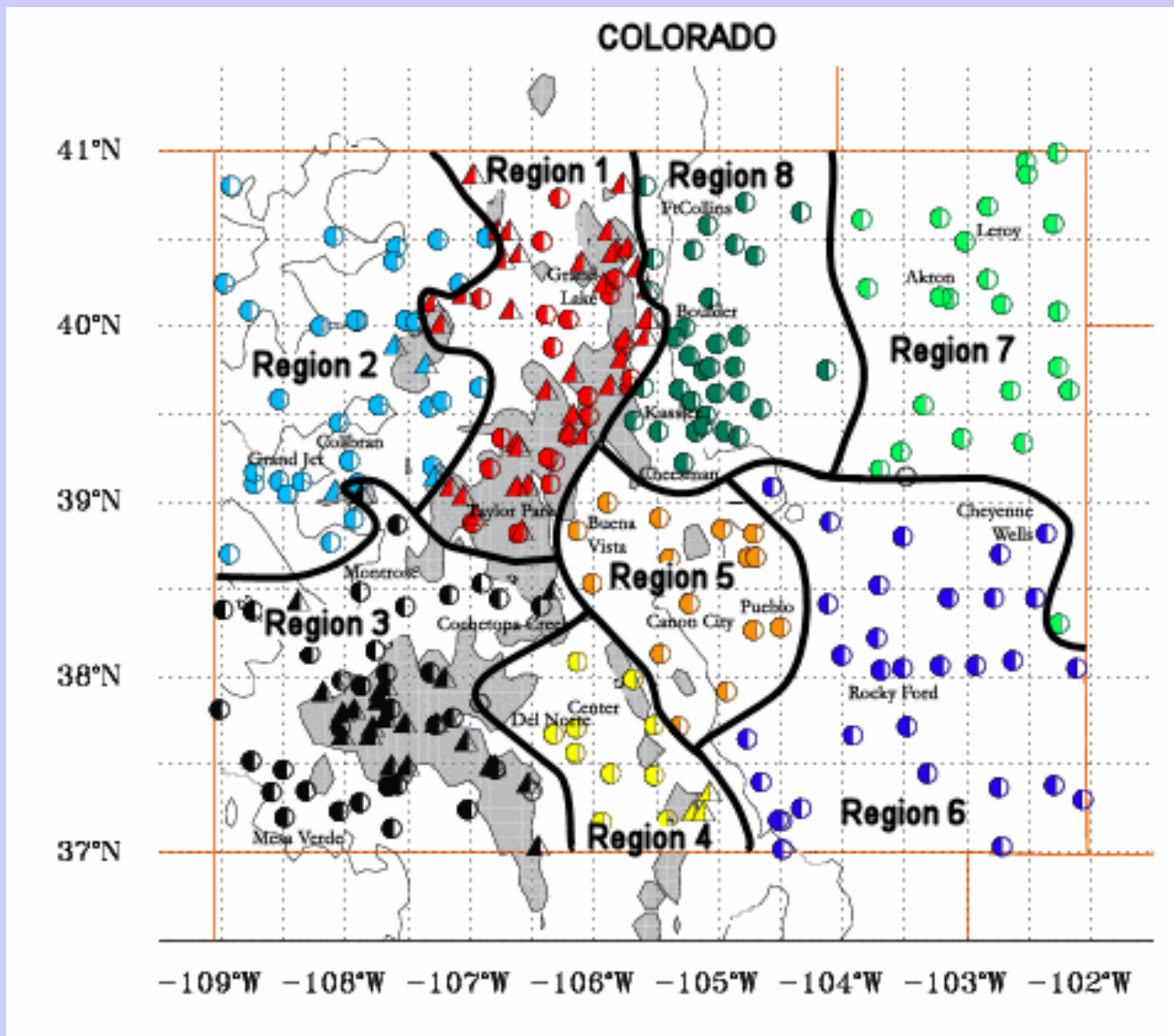
April Average Temperature History for Colorado

— Actual Temperature
— Average Temperature

Period of record 1895-2007

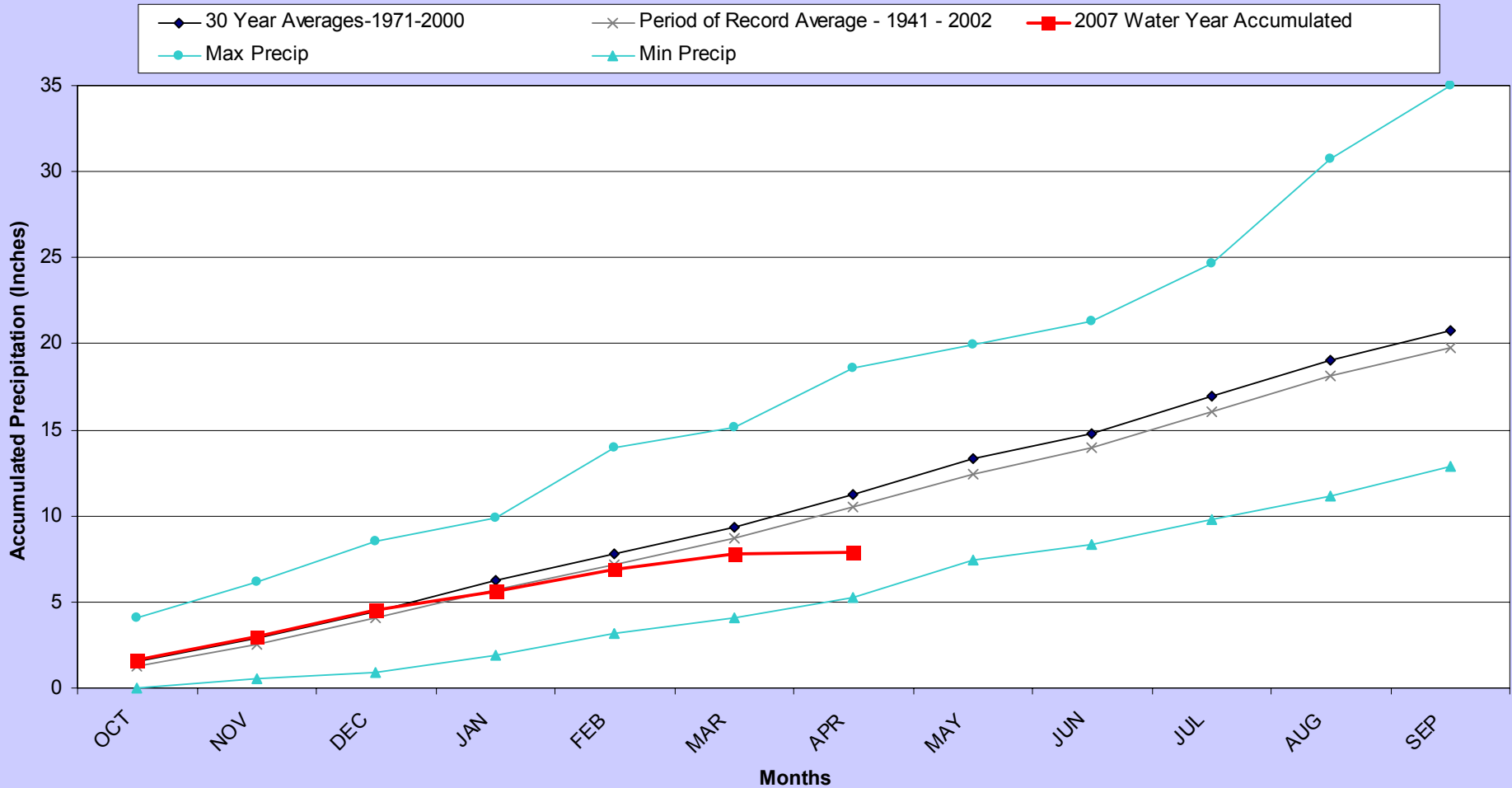


Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO



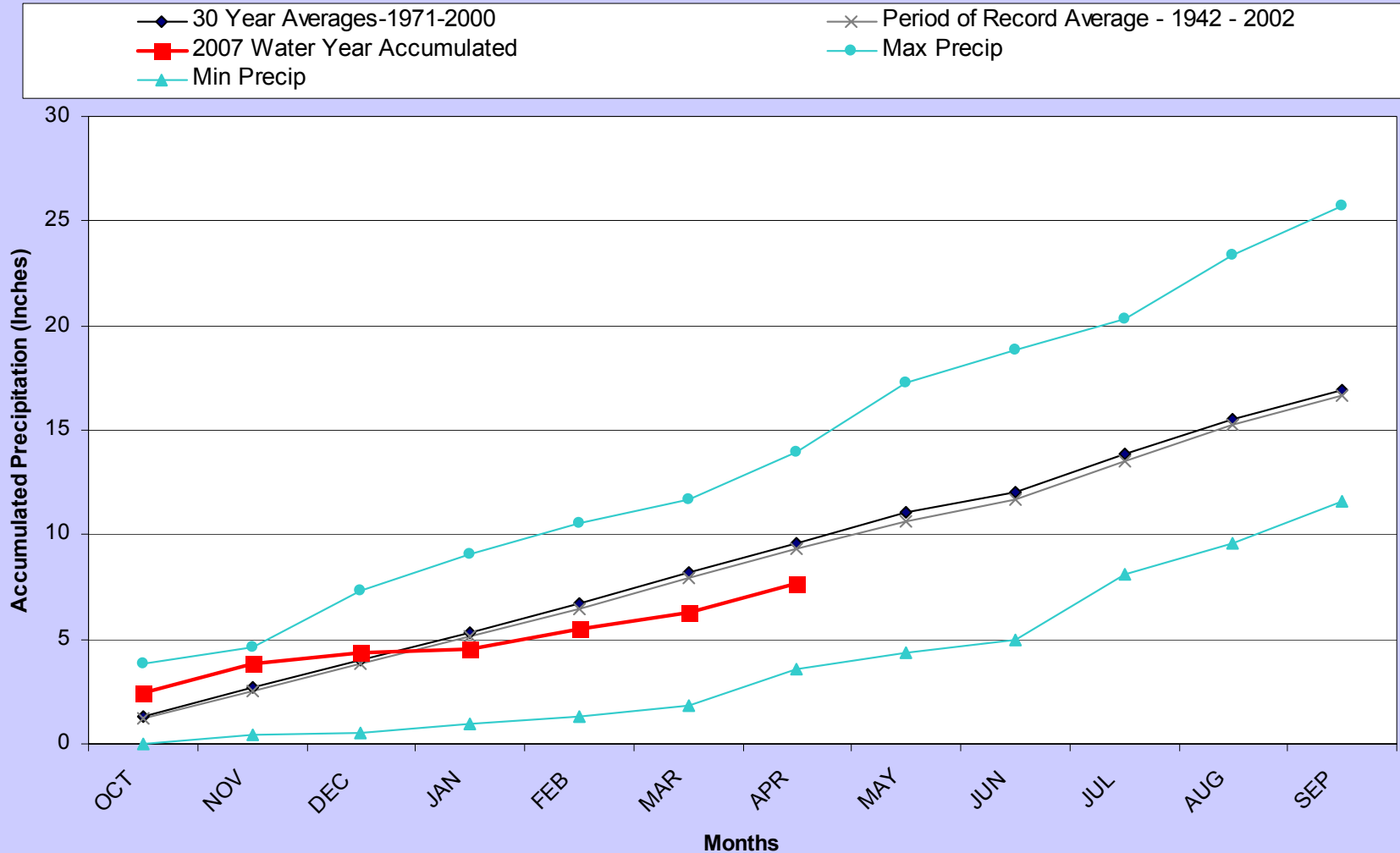
Division 1- Grand Lake 1NW

Grand Lake 1 NW 2007 Water Year



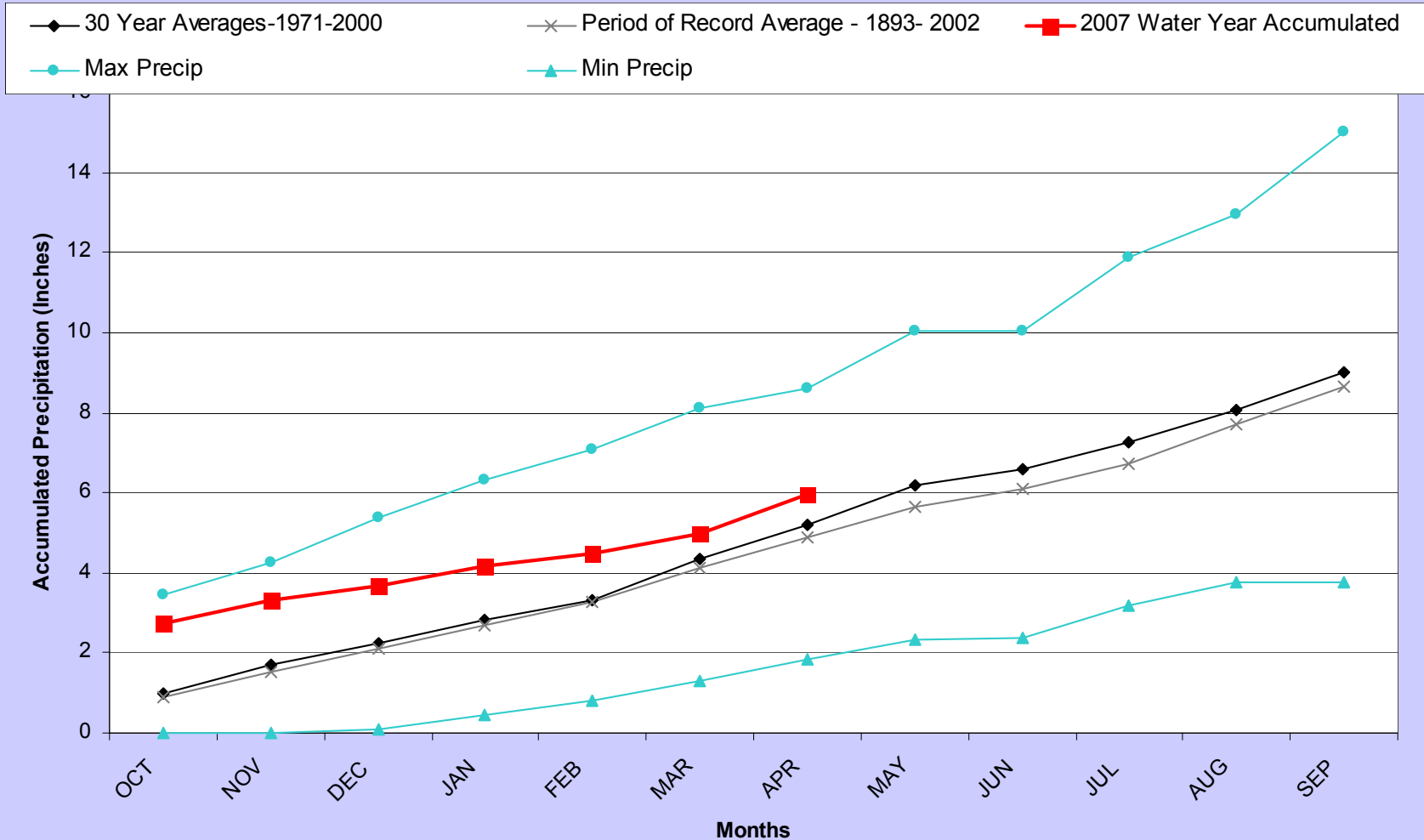
Division 1 – Taylor Park

Taylor Park 2007 Water Year



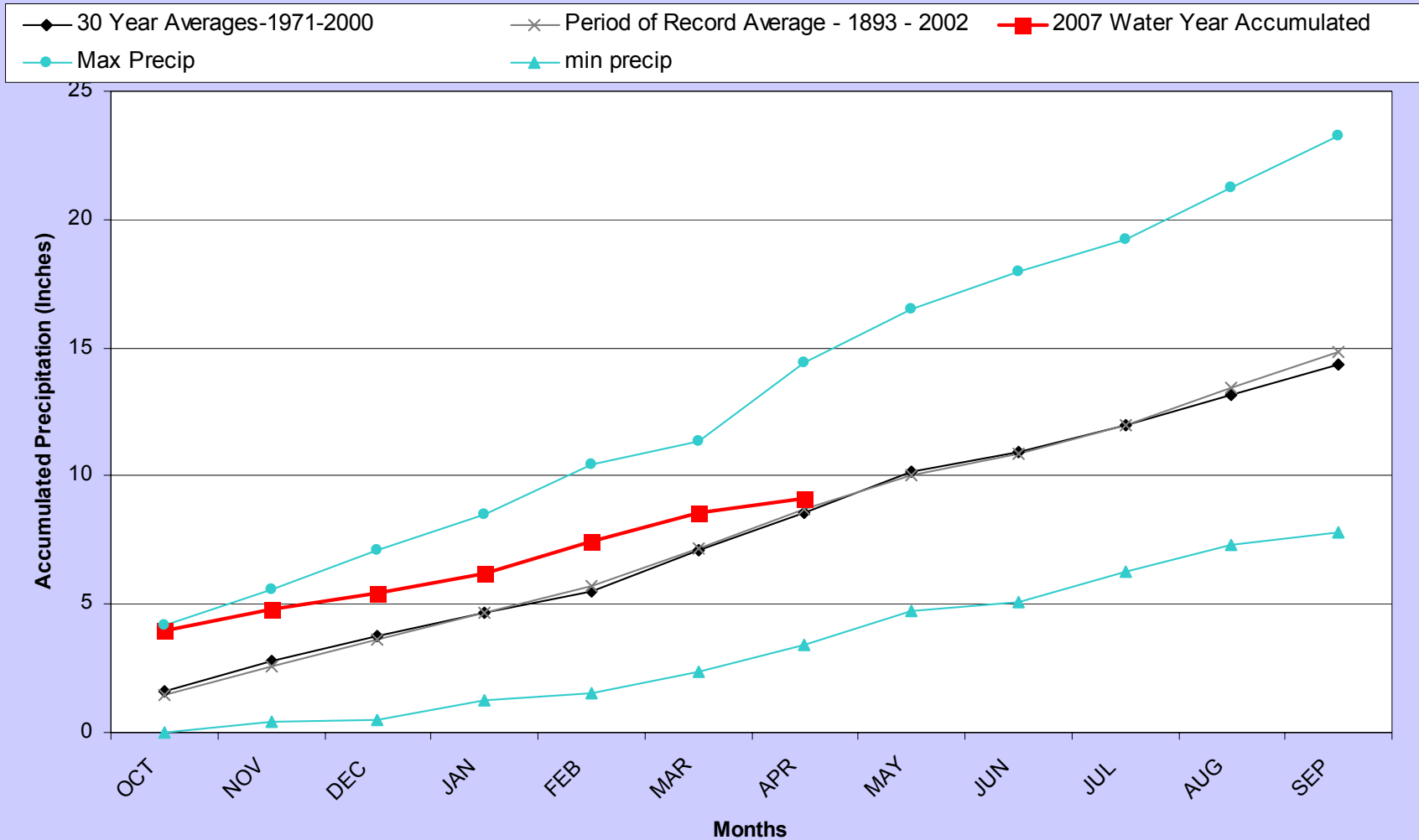
Division 2 – Grand Junction

Grand Junction WSFO 2007 Water Year Accumulated



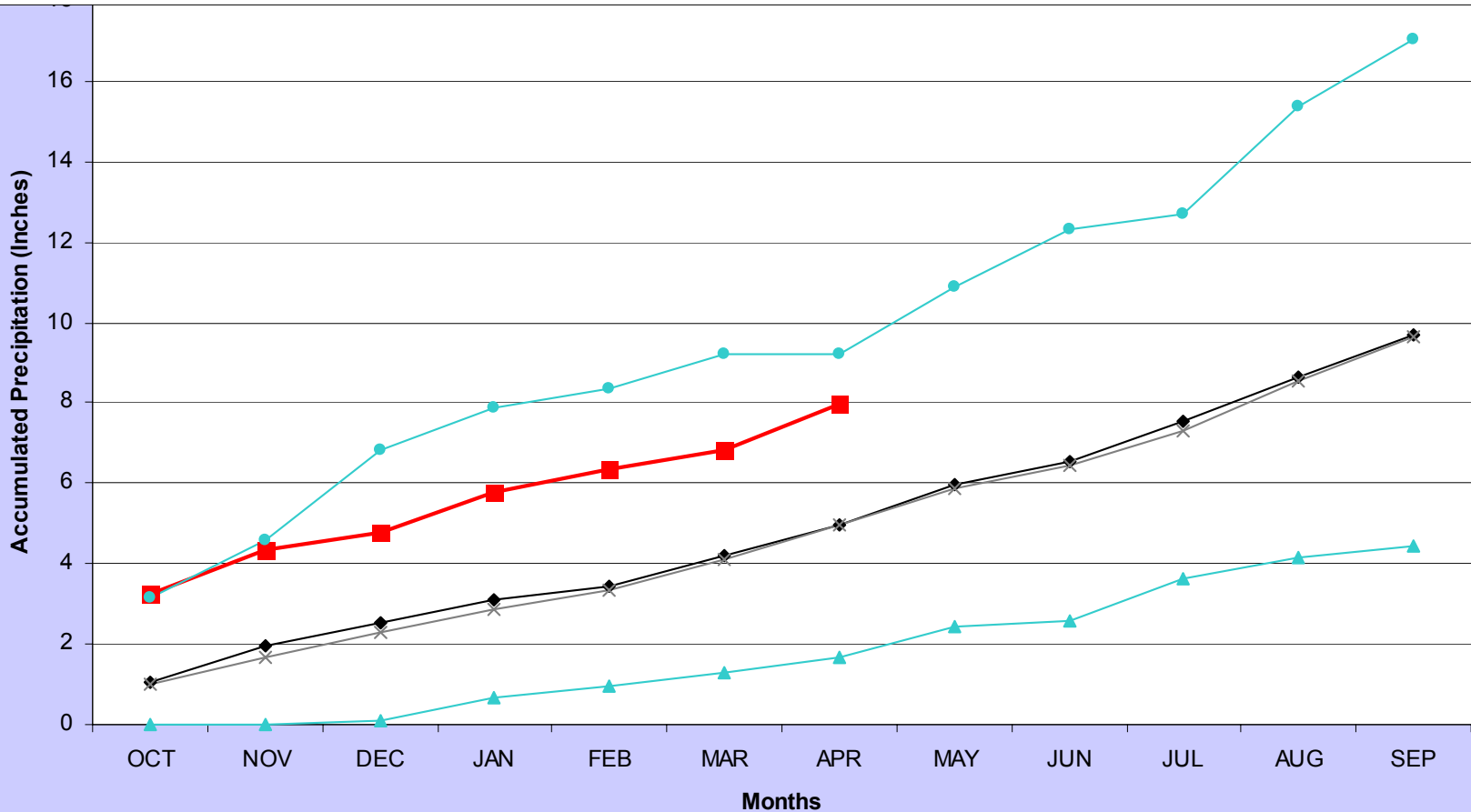
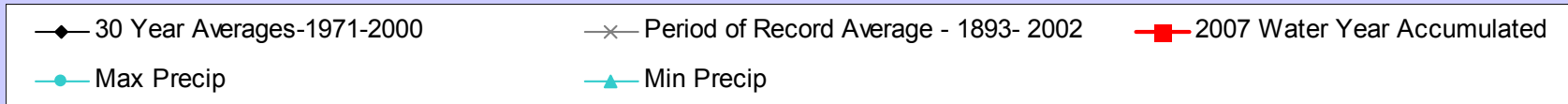
Division 2- Collbran

Collbran 2SW 2007 Water Year



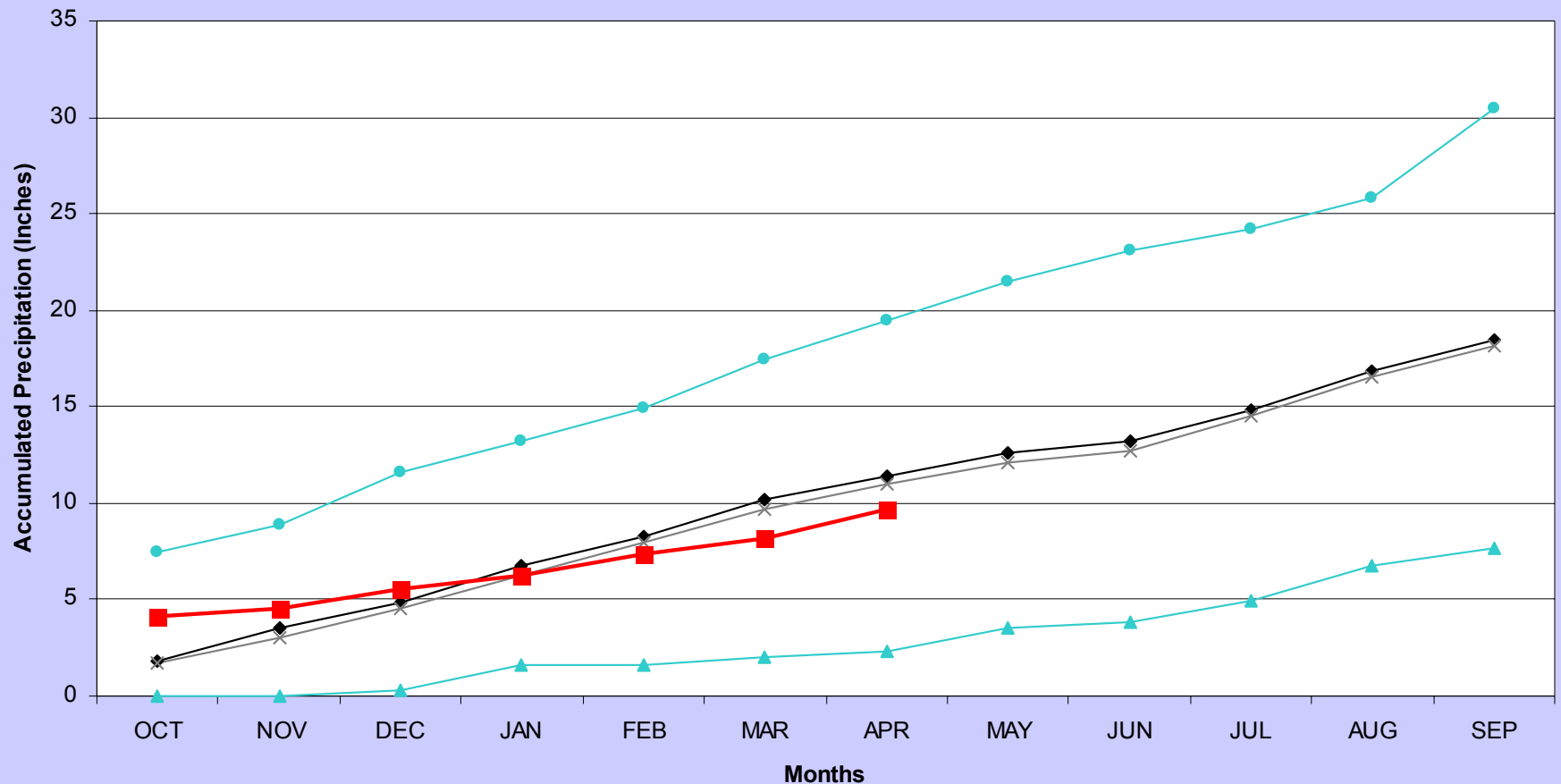
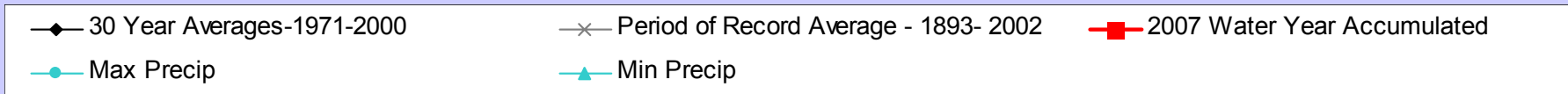
Division 3 – Montrose

Montrose #2 2007 Water Year



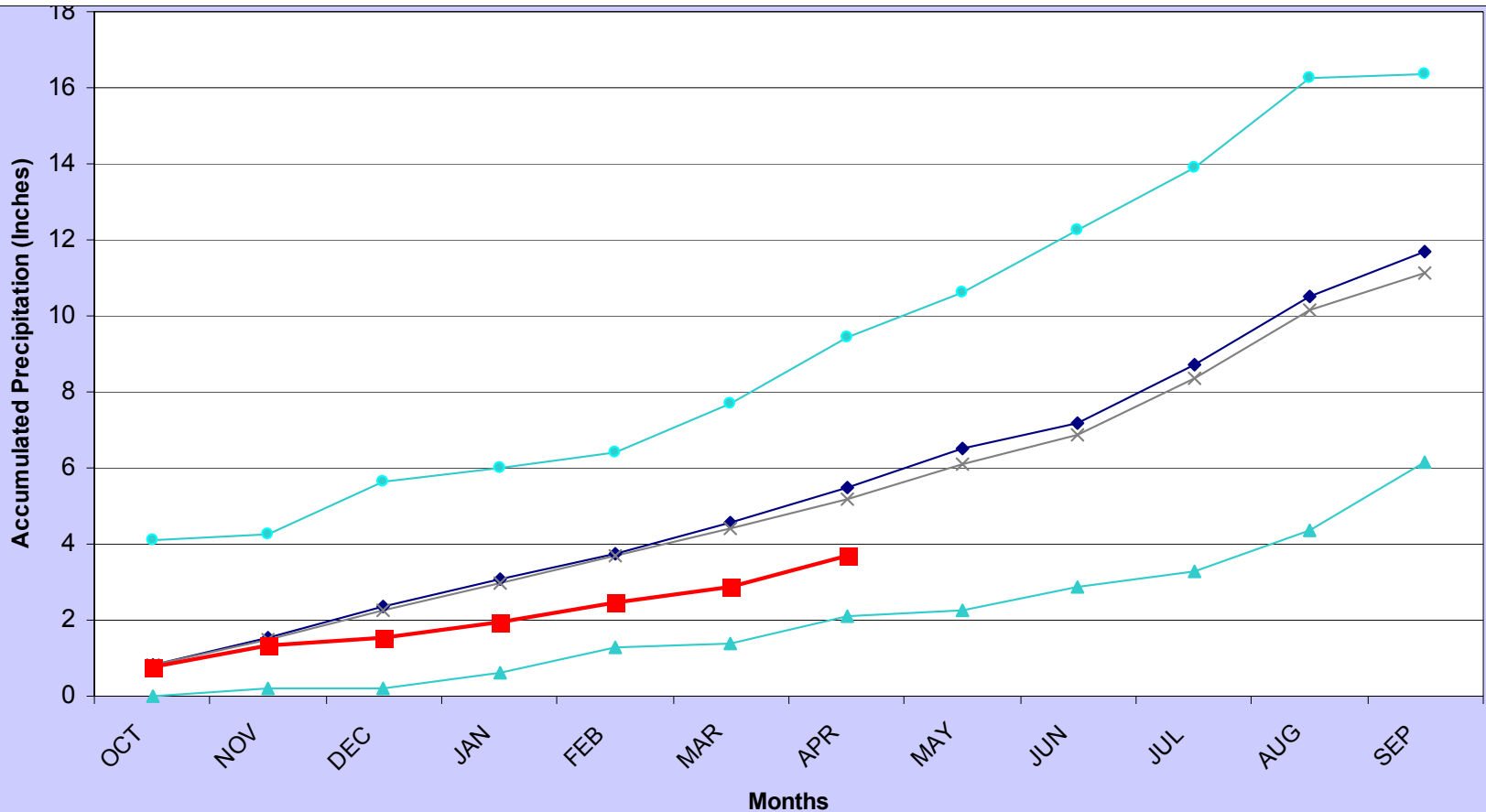
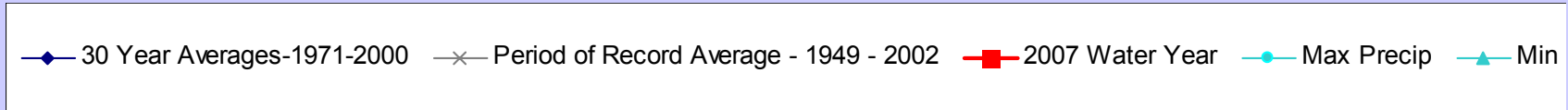
Division 3 – Mesa Verde

Mesa Verde NP 2007 Water Year



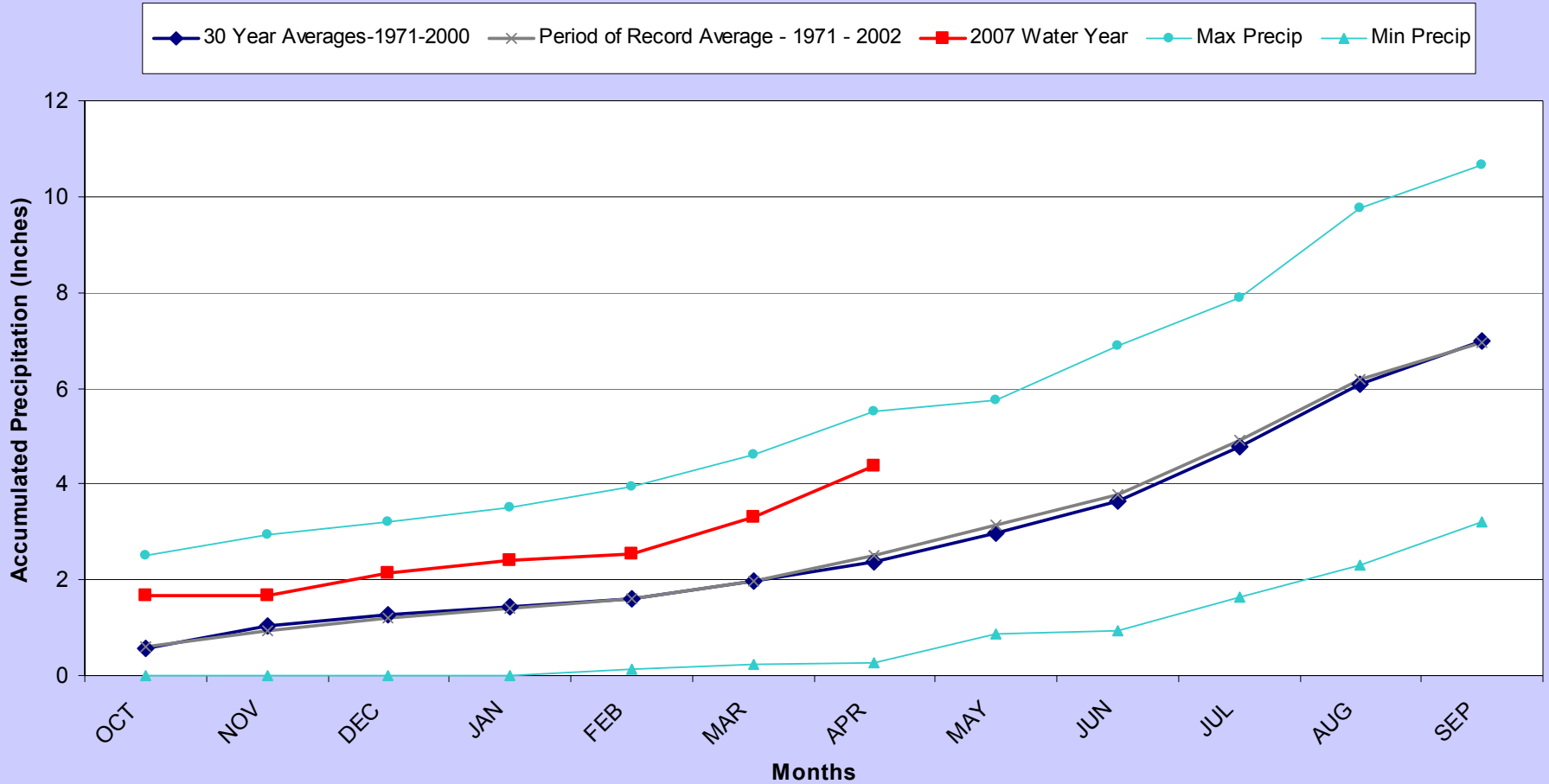
Division 3 – Cochetopa Creek

Cochetopa Creek 2007 Water Year



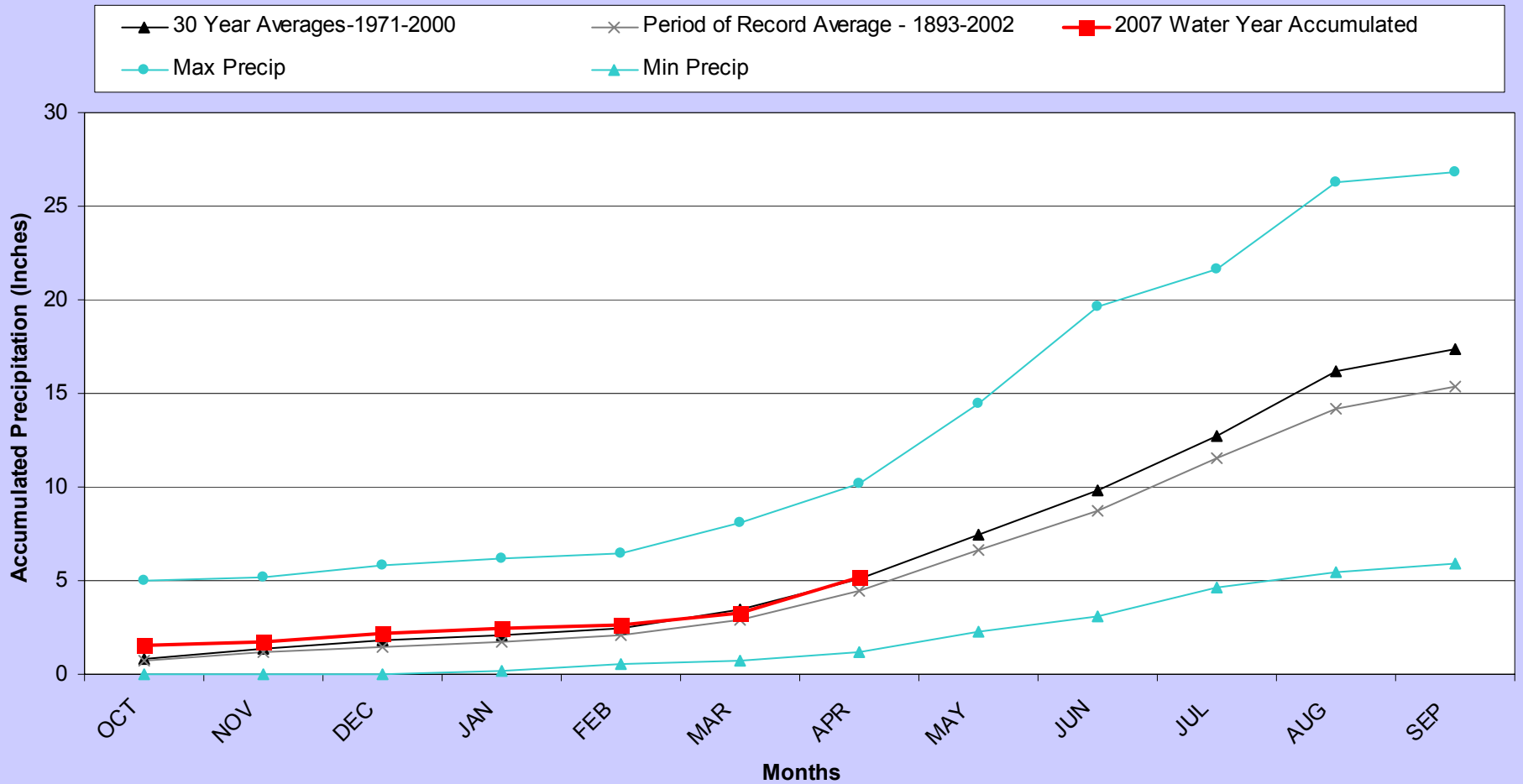
Division 4 – Center

Center 4SSW 2007 Water Year



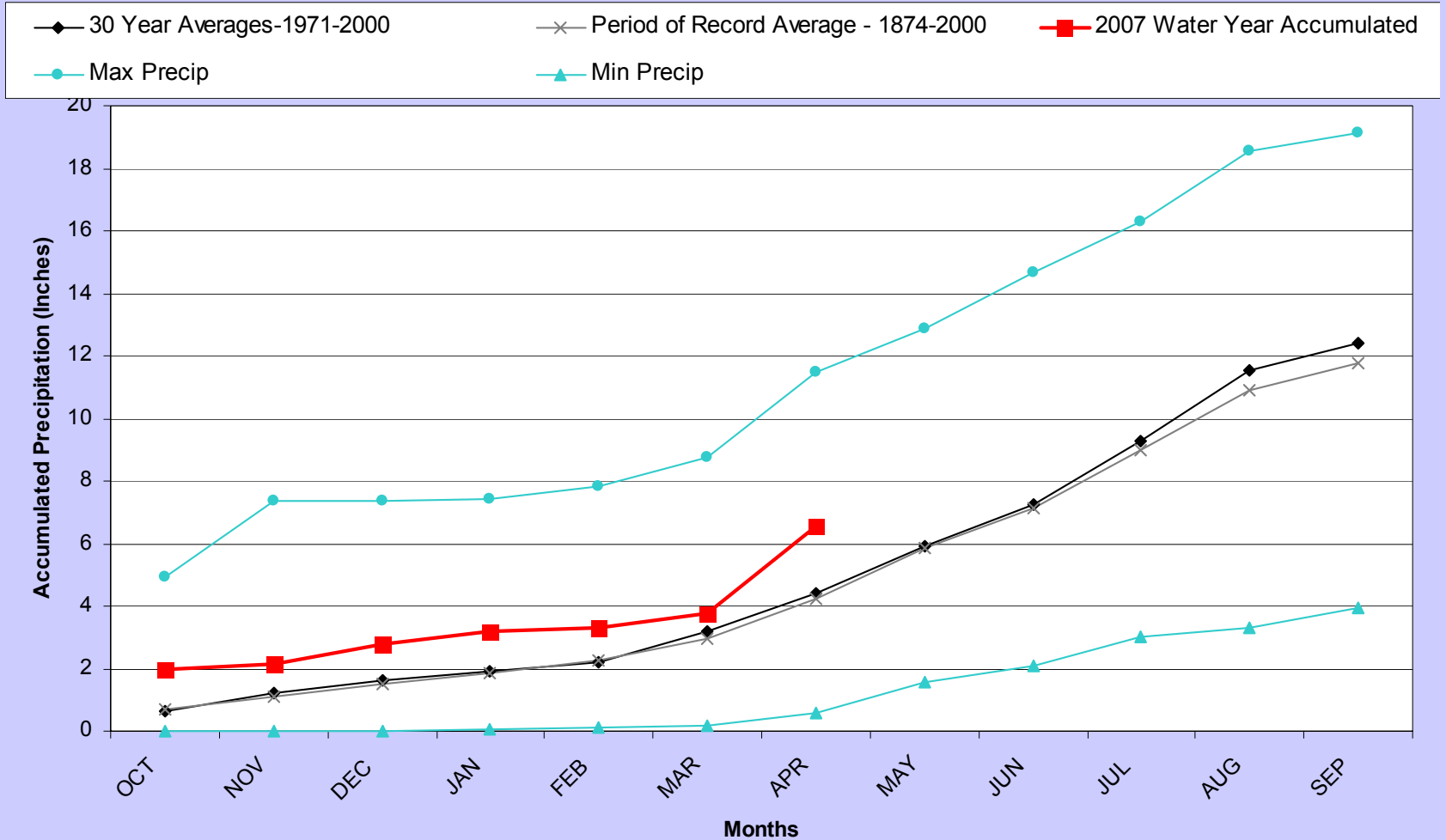
Division 5 – Colorado Springs

Colorado Springs 2007 Water Year



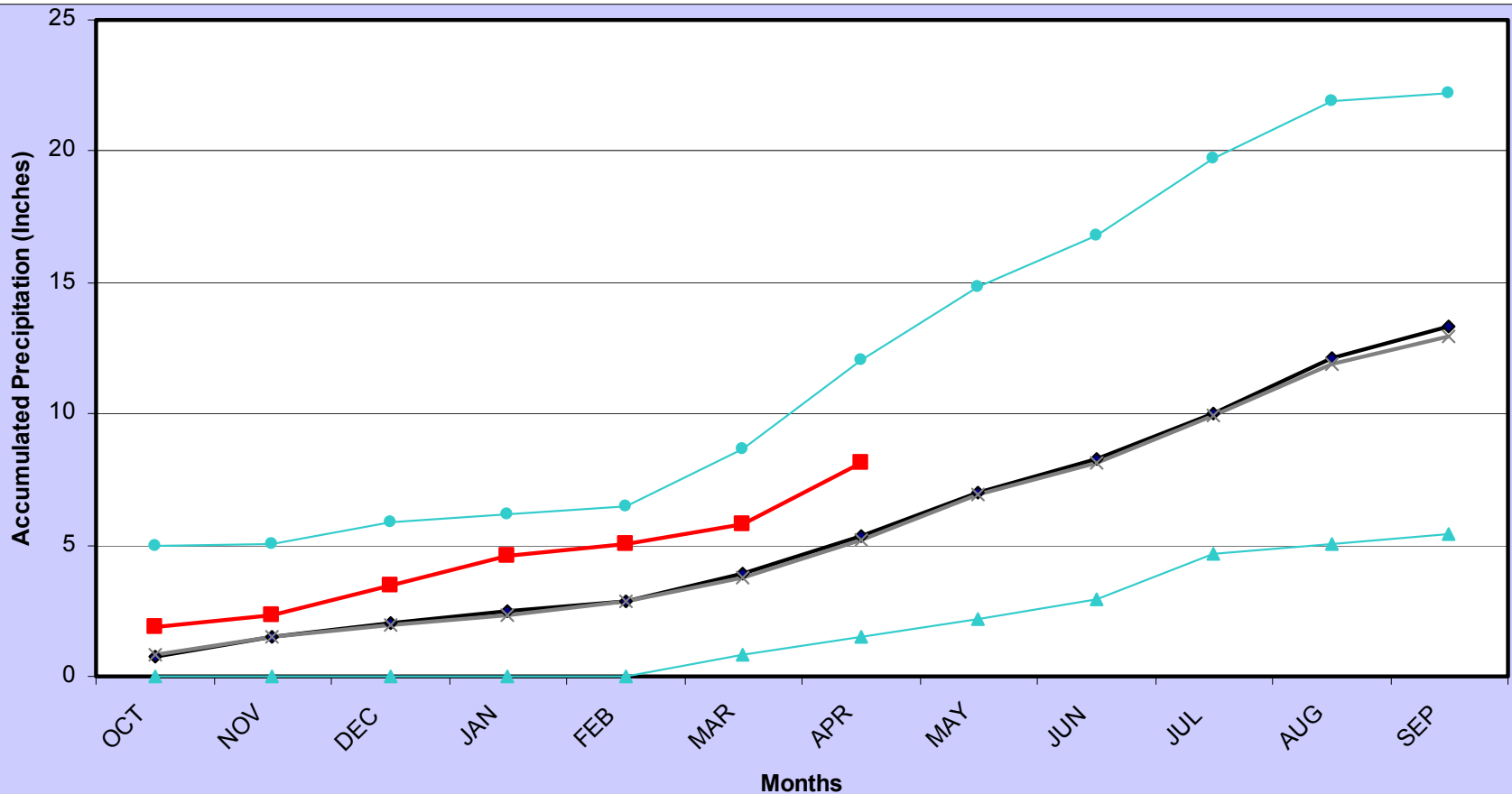
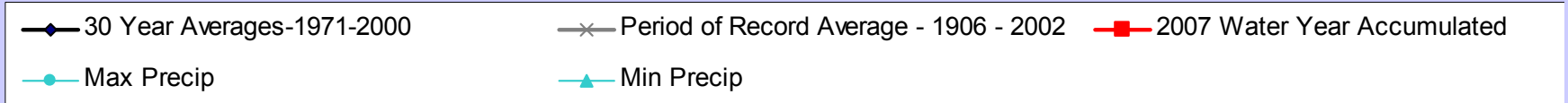
Division 5 – Pueblo

Pueblo WSO 2007 Water Year



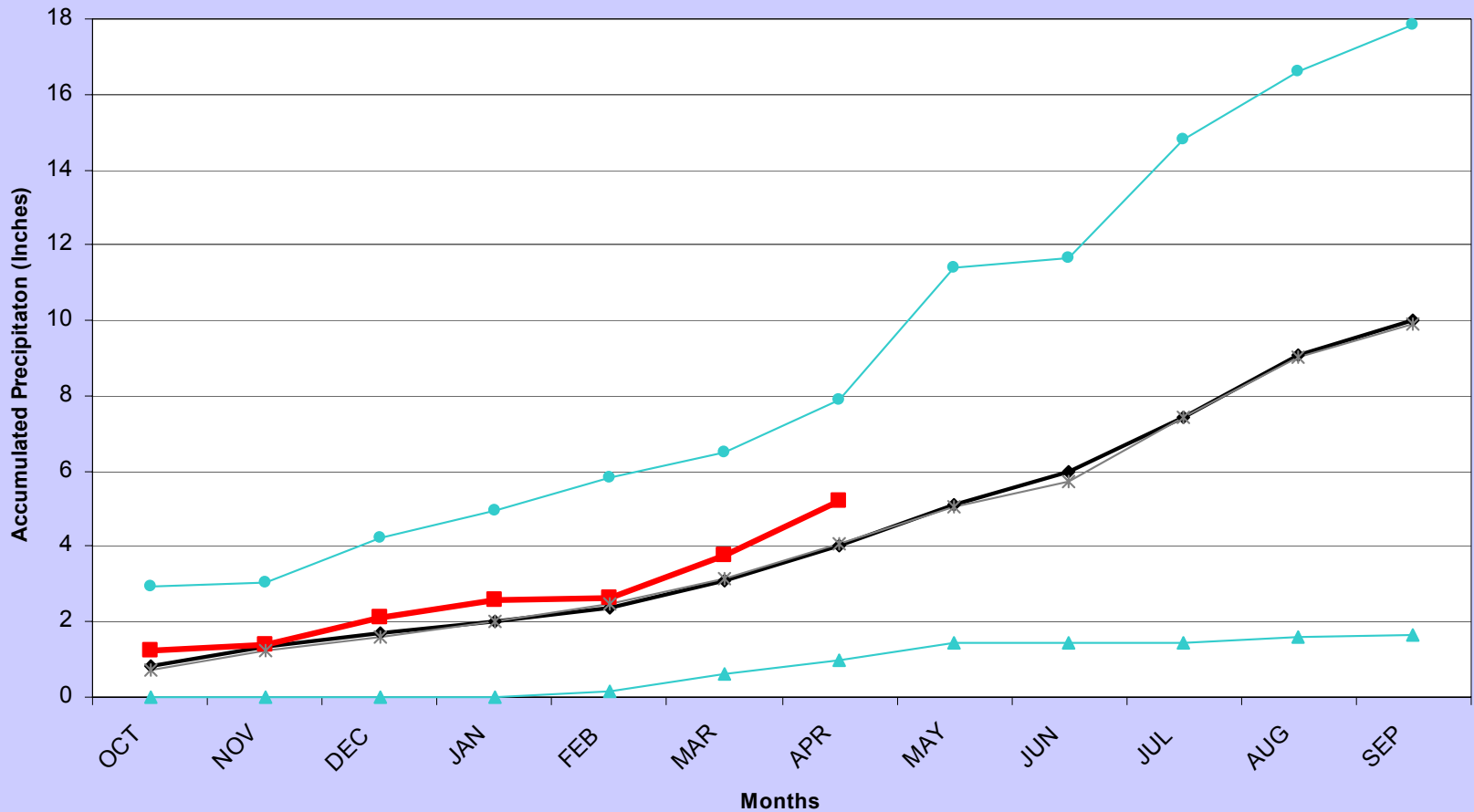
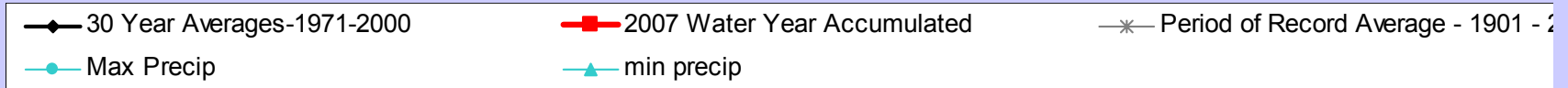
Division 5 – Canon City

Canon City 2007 Water Year



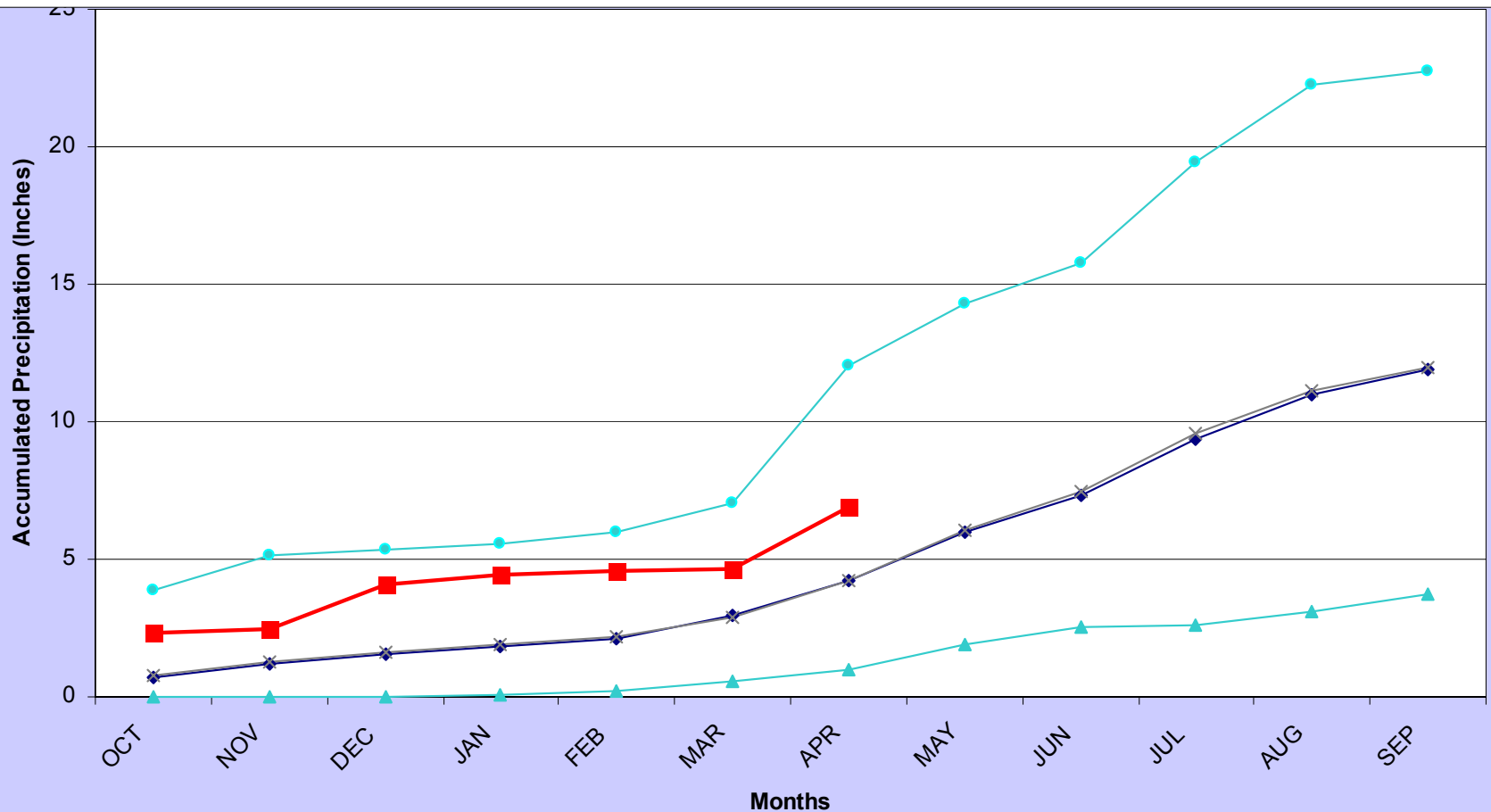
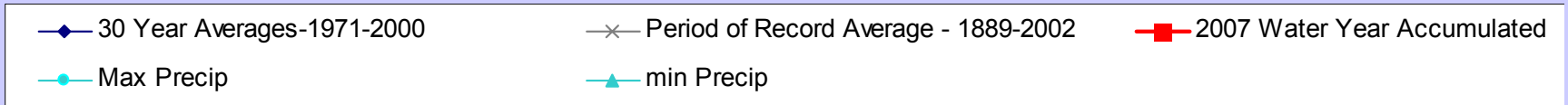
Division 5 – Buena Vista

Buena Vista 2007 Water Year



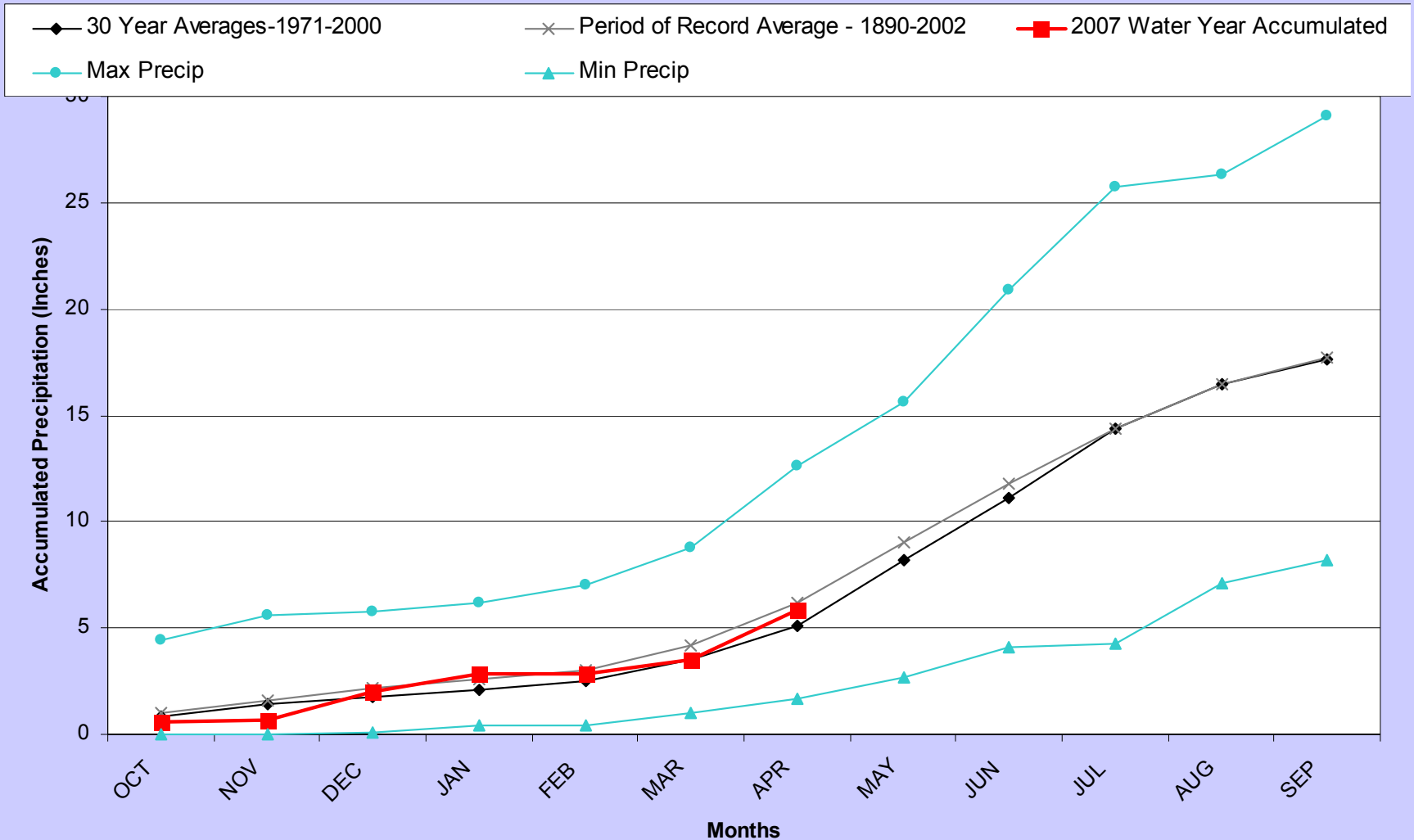
Division 6 – Rocky Ford

Rocky Ford 2007 Water Year



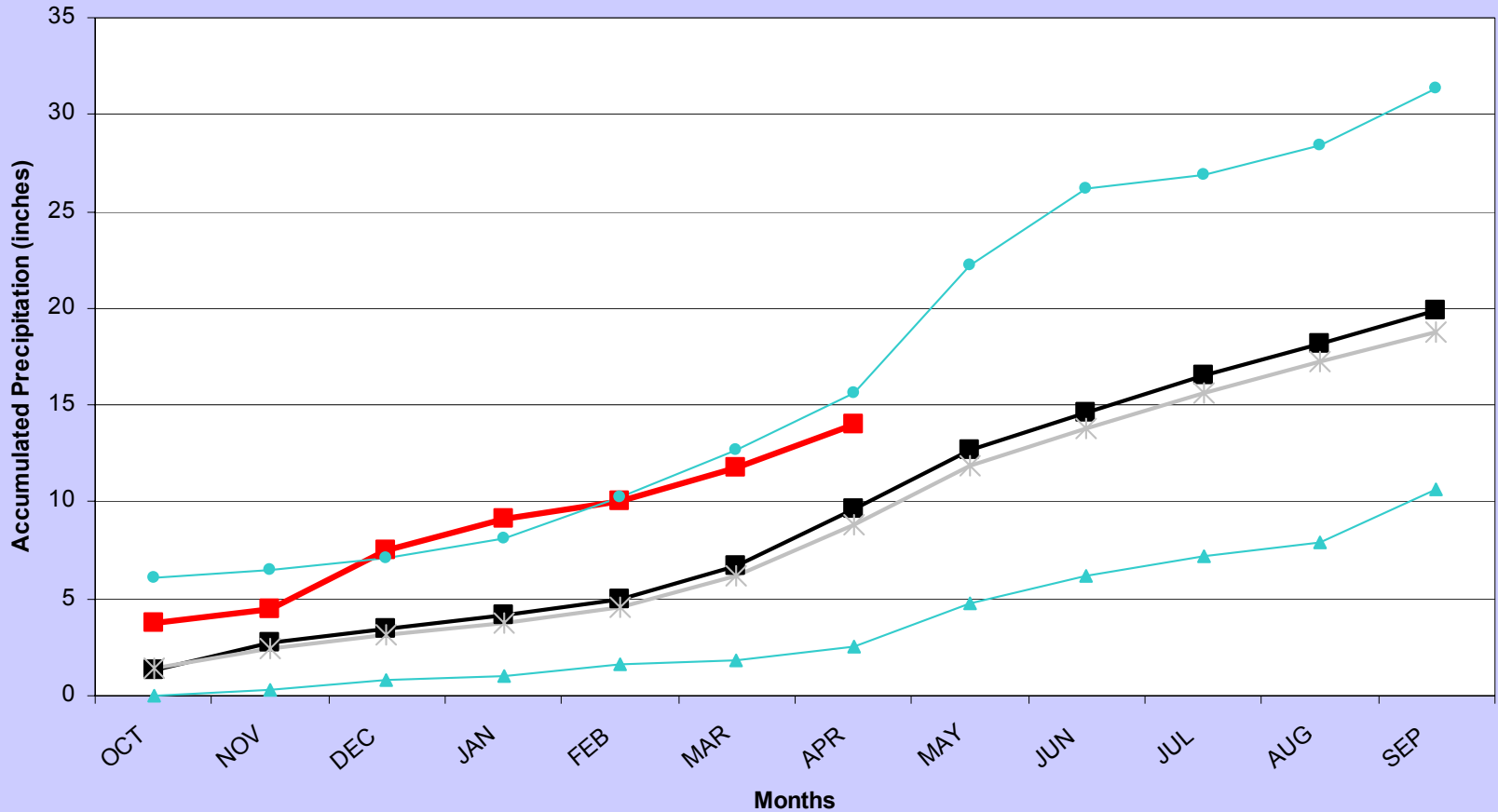
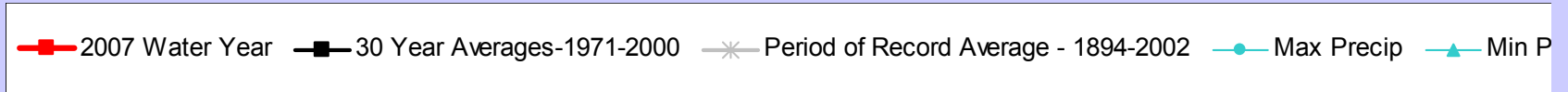
Division 7 – Leroy

Leroy 5SW 2007 Water Year



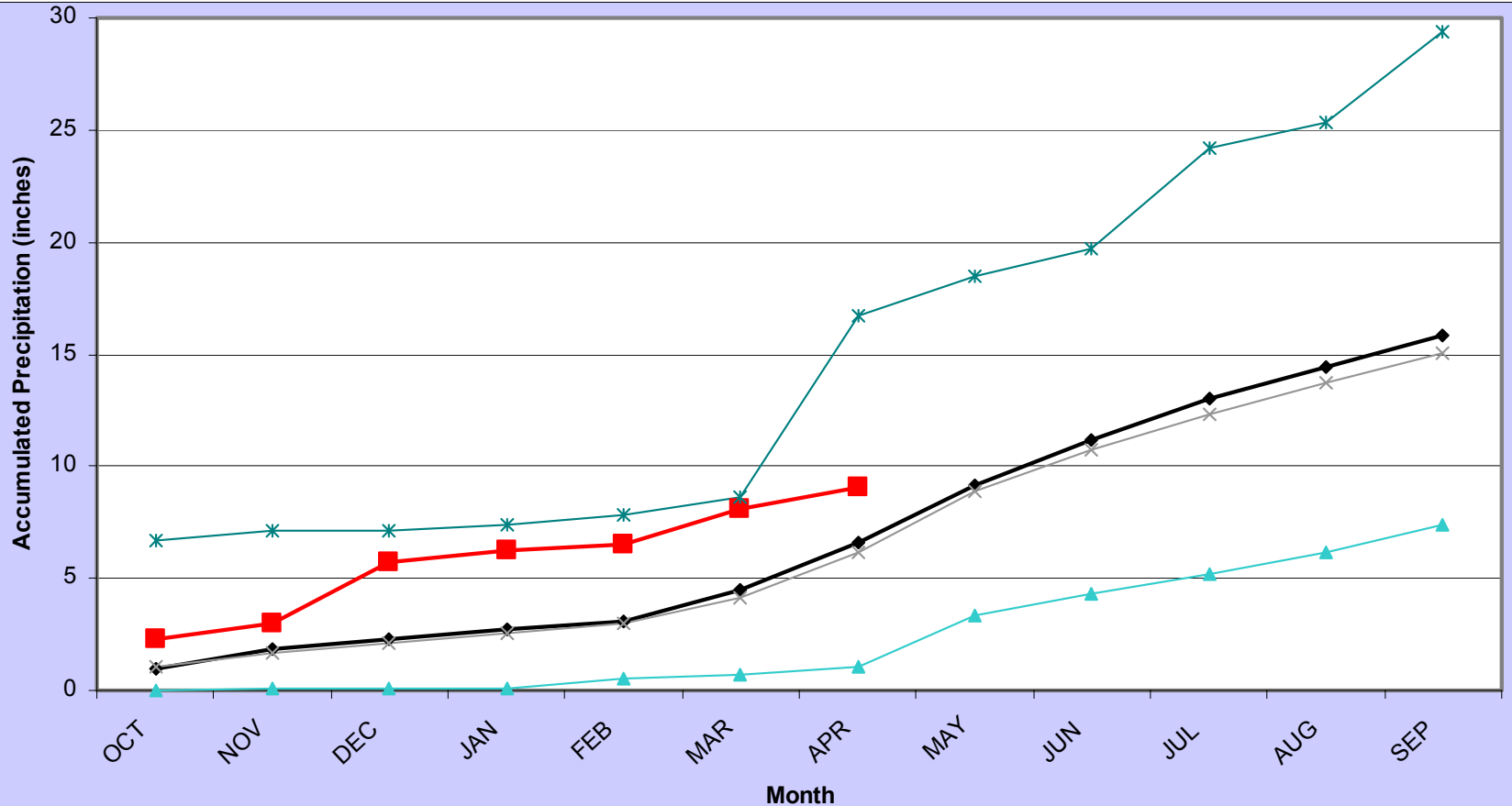
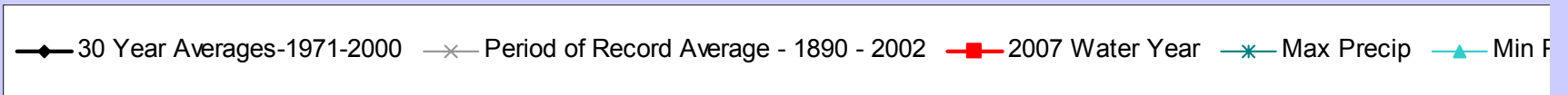
Division 8 – Boulder

Boulder 2007 Water Year



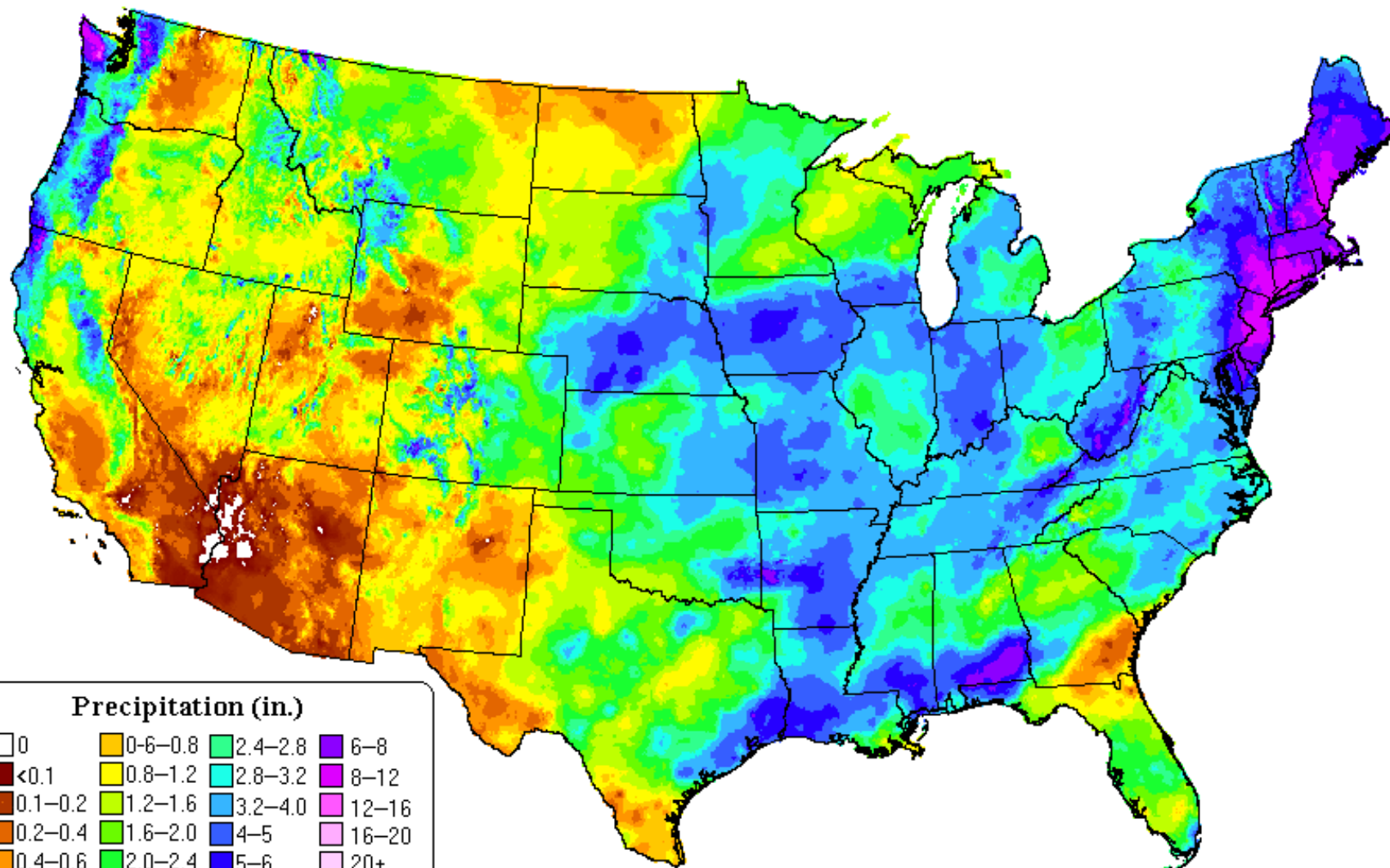
Division 8 – Fort Collins

Fort Collins 2007 Water Year

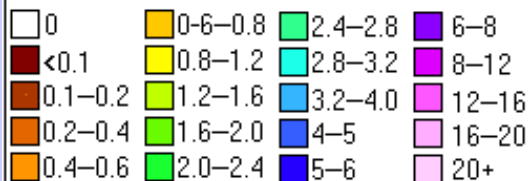


April 2007 Precipitation (Prism)

Precipitation: Apr 2007
Provisional Data



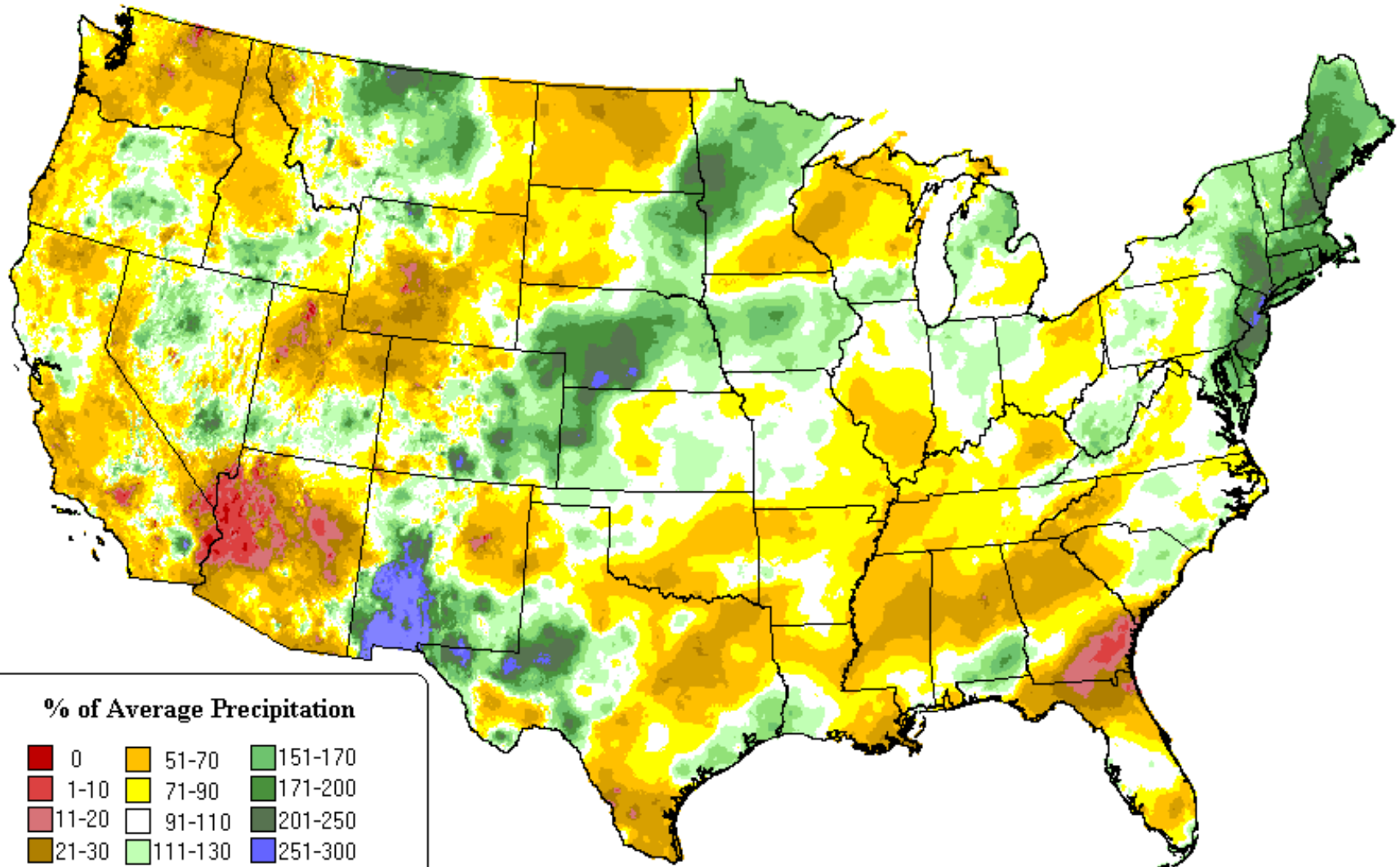
Precipitation (in.)



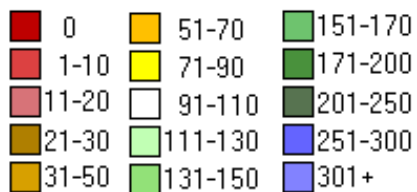
Copyright (c) 2007, PRISM Group, Oregon State University
<http://www.ocs.oregonstate.edu/prism> - Map created May 11 2007

April 2007 Percent of Average (Prism)

1-month Percent of Average Precipitation: Apr 2007
Provisional Data

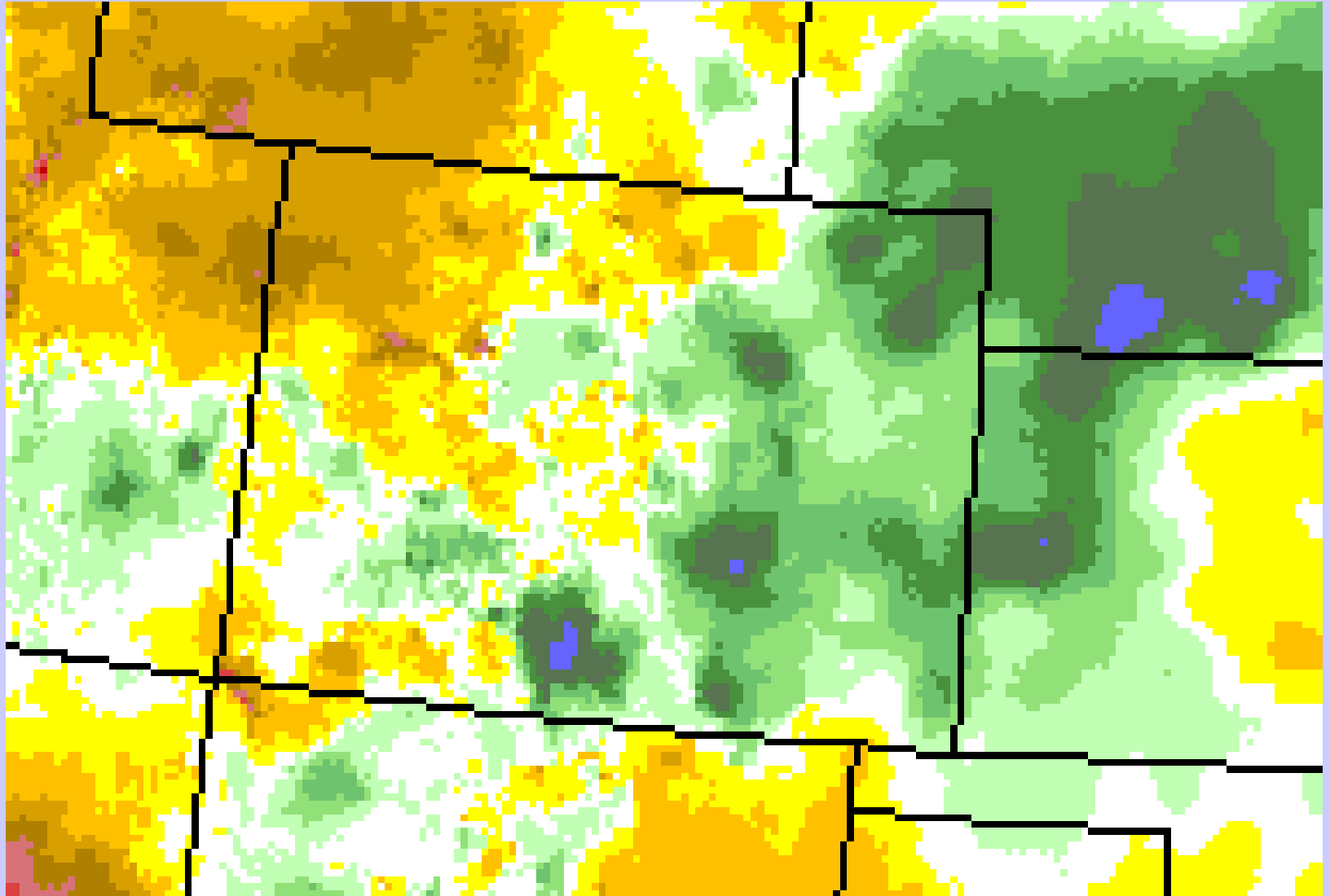


% of Average Precipitation



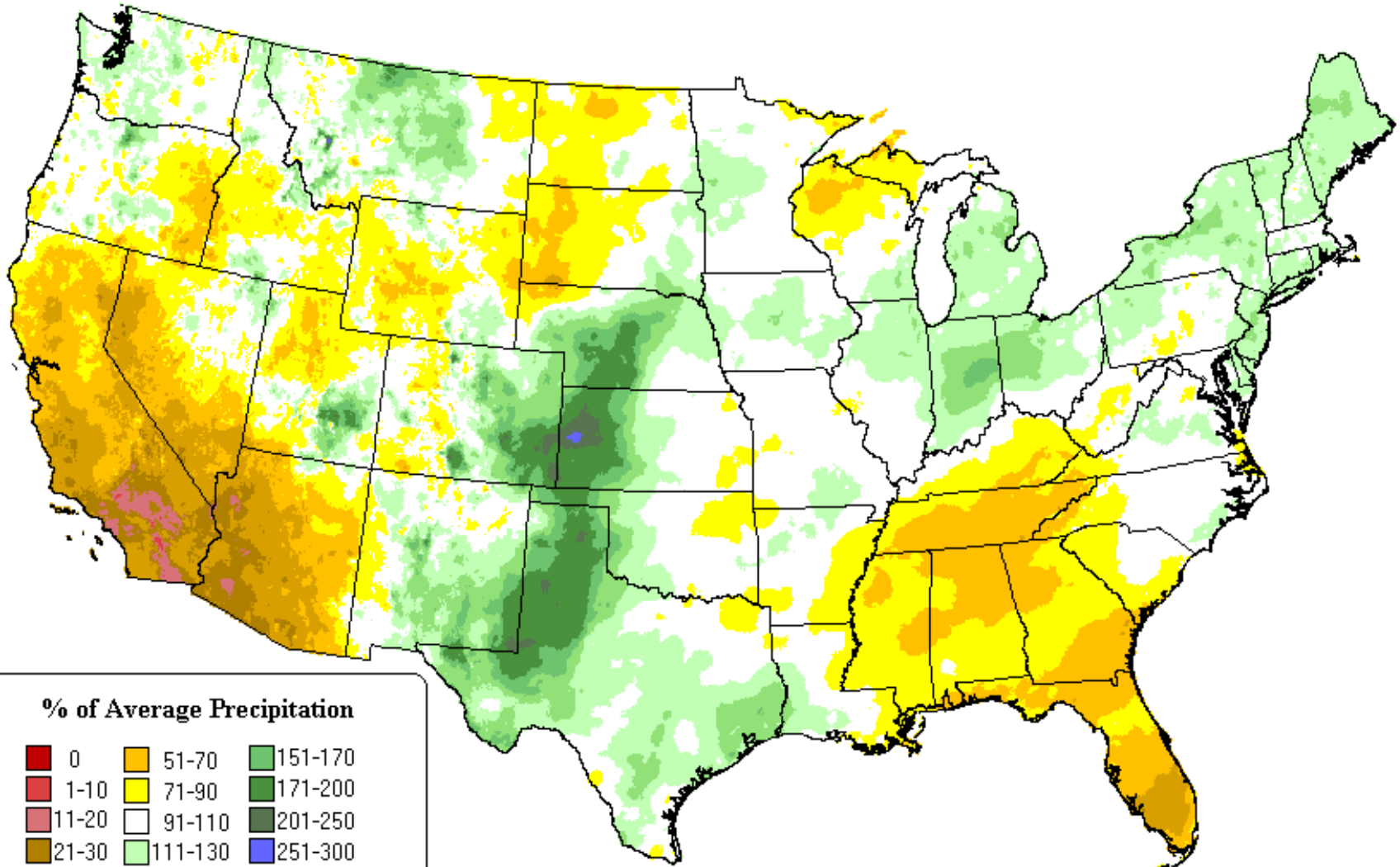
Copyright (c) 2007, PRISM Group, Oregon State University
<http://www.ocs.oregonstate.edu/prism> - Map created May 14 2007

April 2007 Percent of Average (Prism)



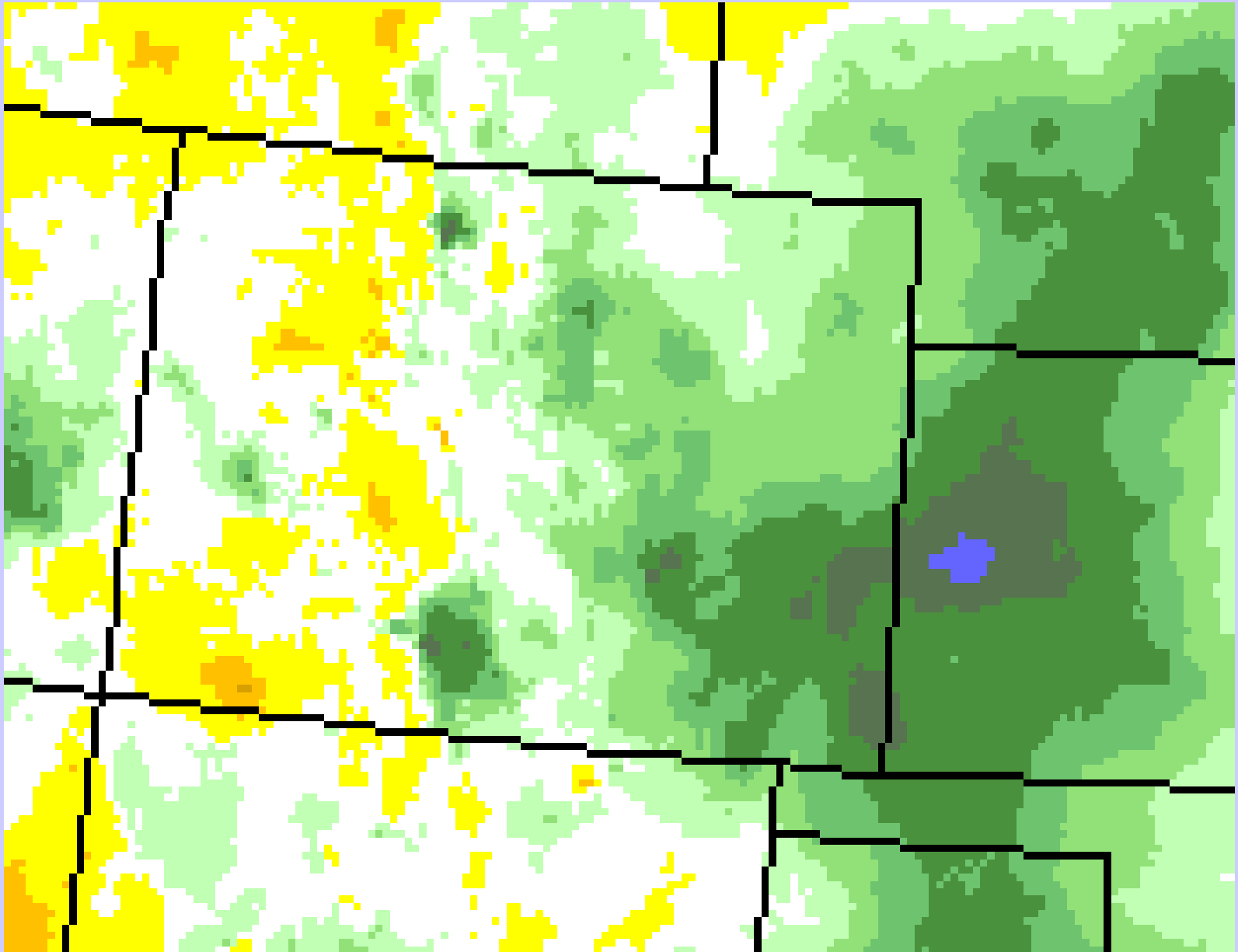
Water Year 2007 (Oct-Apr) Prism

7-month Percent of Average Precipitation: Apr 2007
Provisional Data



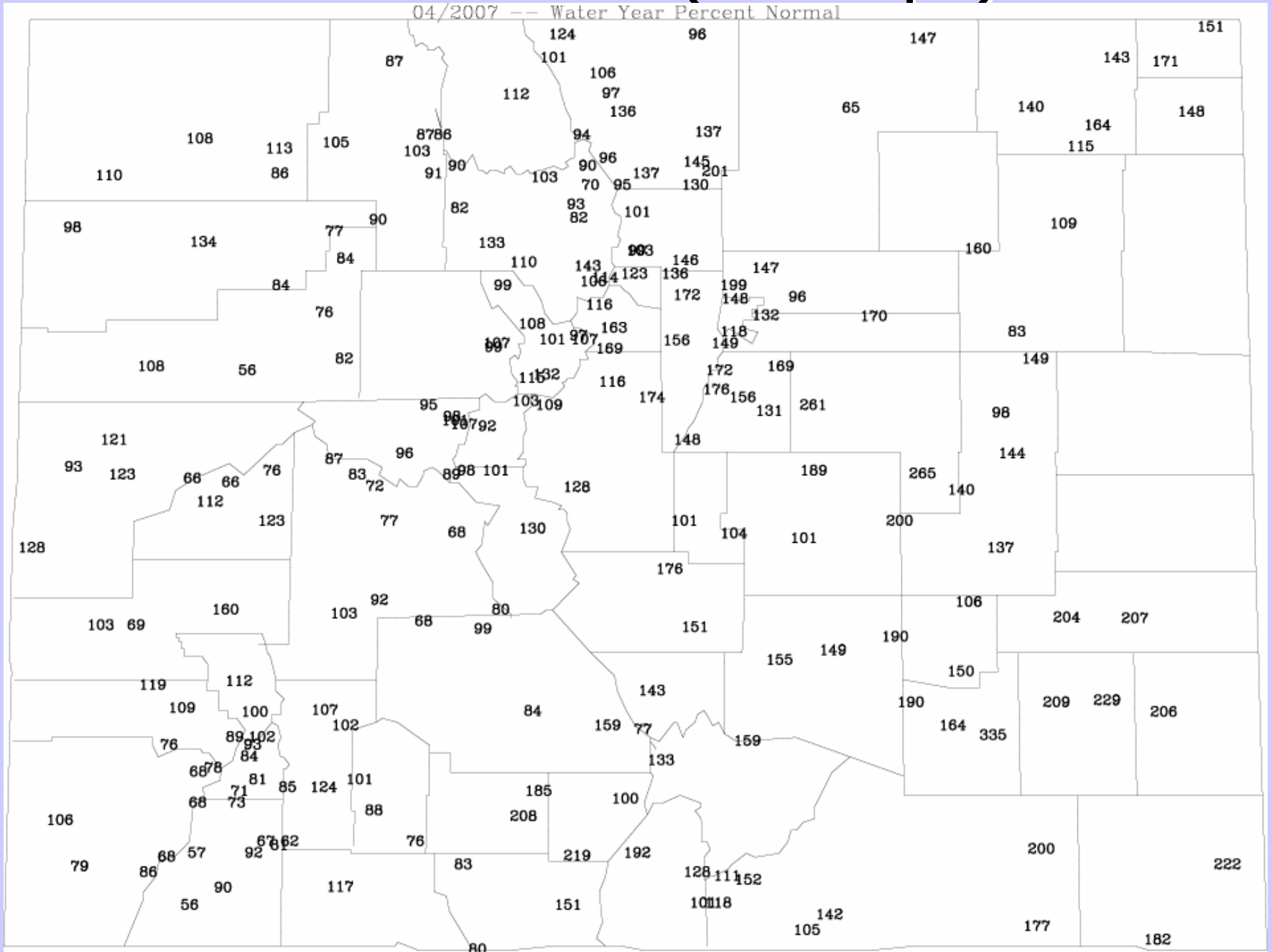
Copyright (c) 2007, PRISM Group, Oregon State University
<http://www.ocs.oregonstate.edu/prism> - Map created May 14 2007

Water Year 2007 (Oct-Apr) Prism



Water Year 2007 (Oct-Apr)

04/2007 -- Water Year Percent Normal



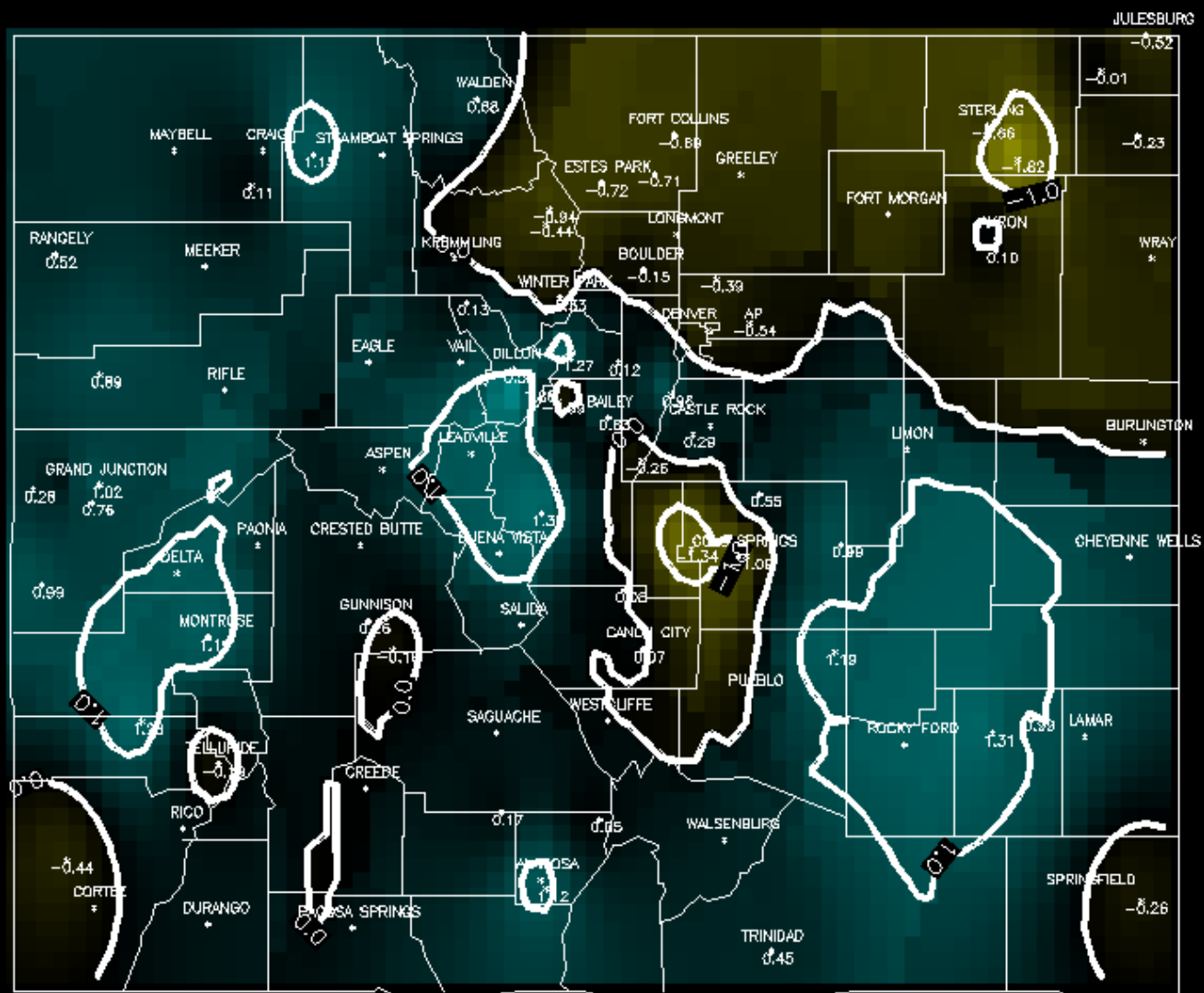
Summary:

- Fairly typical spring weather so far, with combination of regional storms and dry periods
- Recent weather, abnormally warm statewide
- Overall, reasonable moisture conditions Front Range eastward, but still dry parts of Larimer and Weld County
- Western Colorado very dry, especially northwest

24 Month SPI

Colorado

4/2007 24 mon. SPI



100	>>> 2.0	1	>>> -1.0
90	>> 1.0	0	>>> -2.0
28	>> 0.0	0	>>> -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

48 Month SPI

Colorado

4/2007 48 mon. SPI



100	>>> 2.0	4	<<< -1.0
92	>>> 1.0	0	<<< -2.0
38	>>> 0.0	0	<<< -3.0

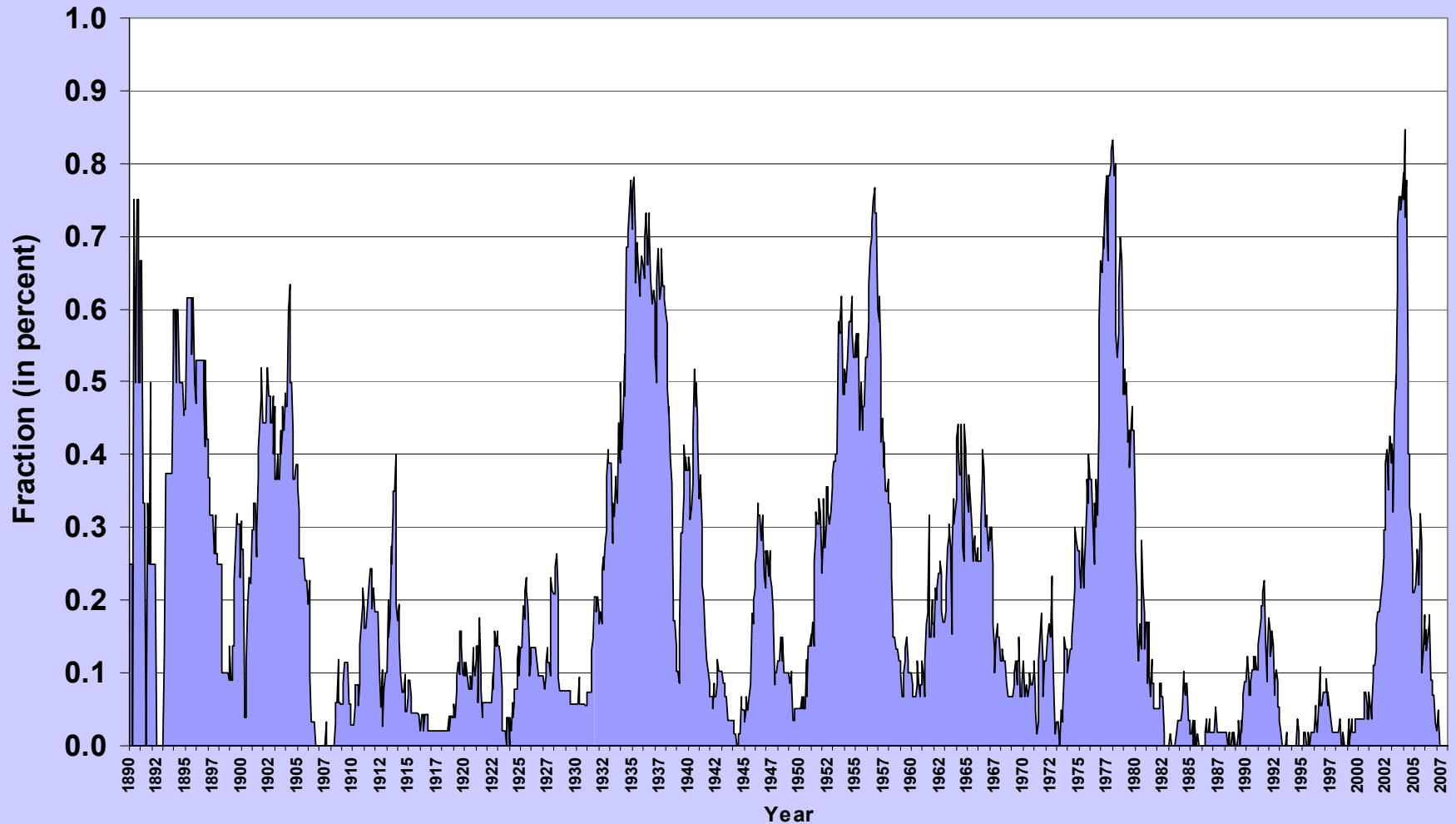
Produced by:
Colorado Climate Center
Fort Collins, CO

Standardized Precipitation Index

Fraction of Colorado in Drought

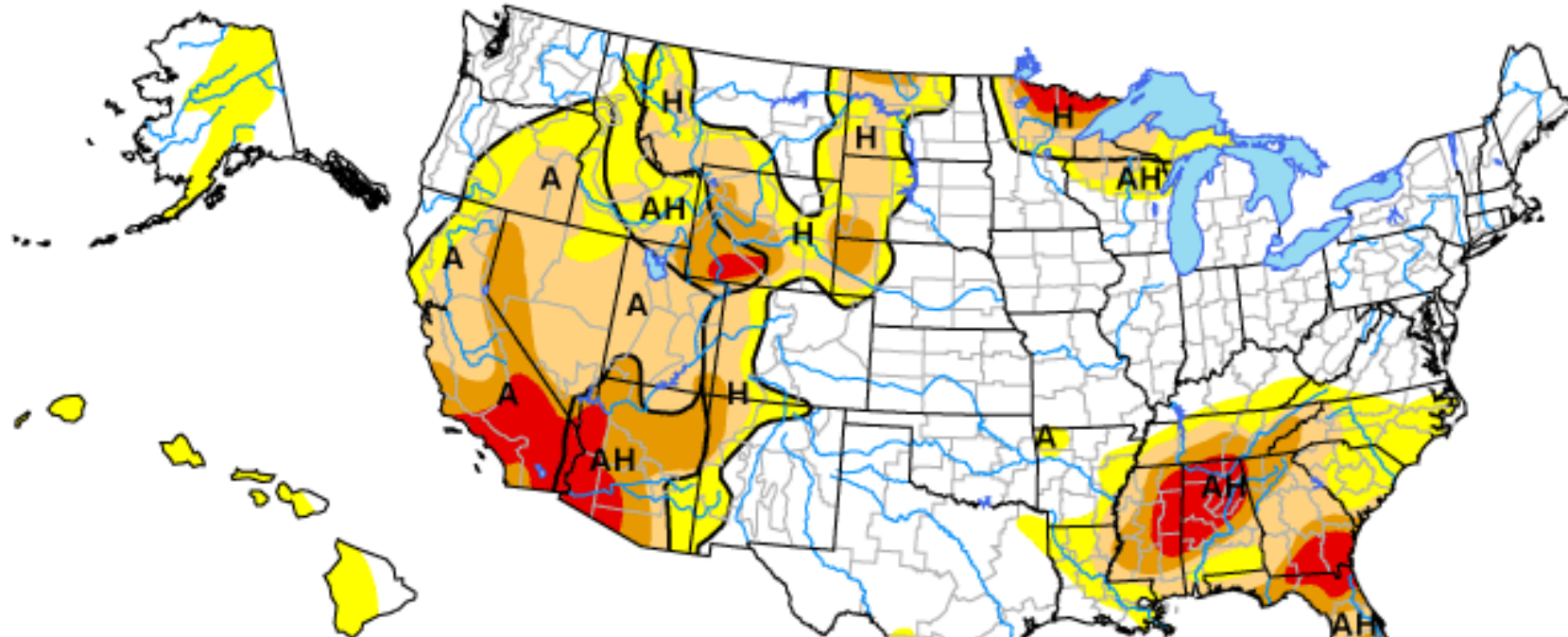
Based on 48 month SPI

(1890 - Apr 2007)








U.S. Drought Monitor


May 8, 2007
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, May 10, 2007

Author: Brian Fuchs, National Drought Mitigation Center

Colorado Climate Center

Data and Power Point Presentations available
for downloading

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

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

