

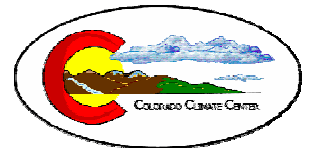
Drought Update for March 2006

**Roger A. Pielke, Sr.
Colorado Climate Center**

**presented at the Water Availability Task Force meeting,
Division of Wildlife, Denver, CO, April 20, 2006**

Prepared by Odie Bliss

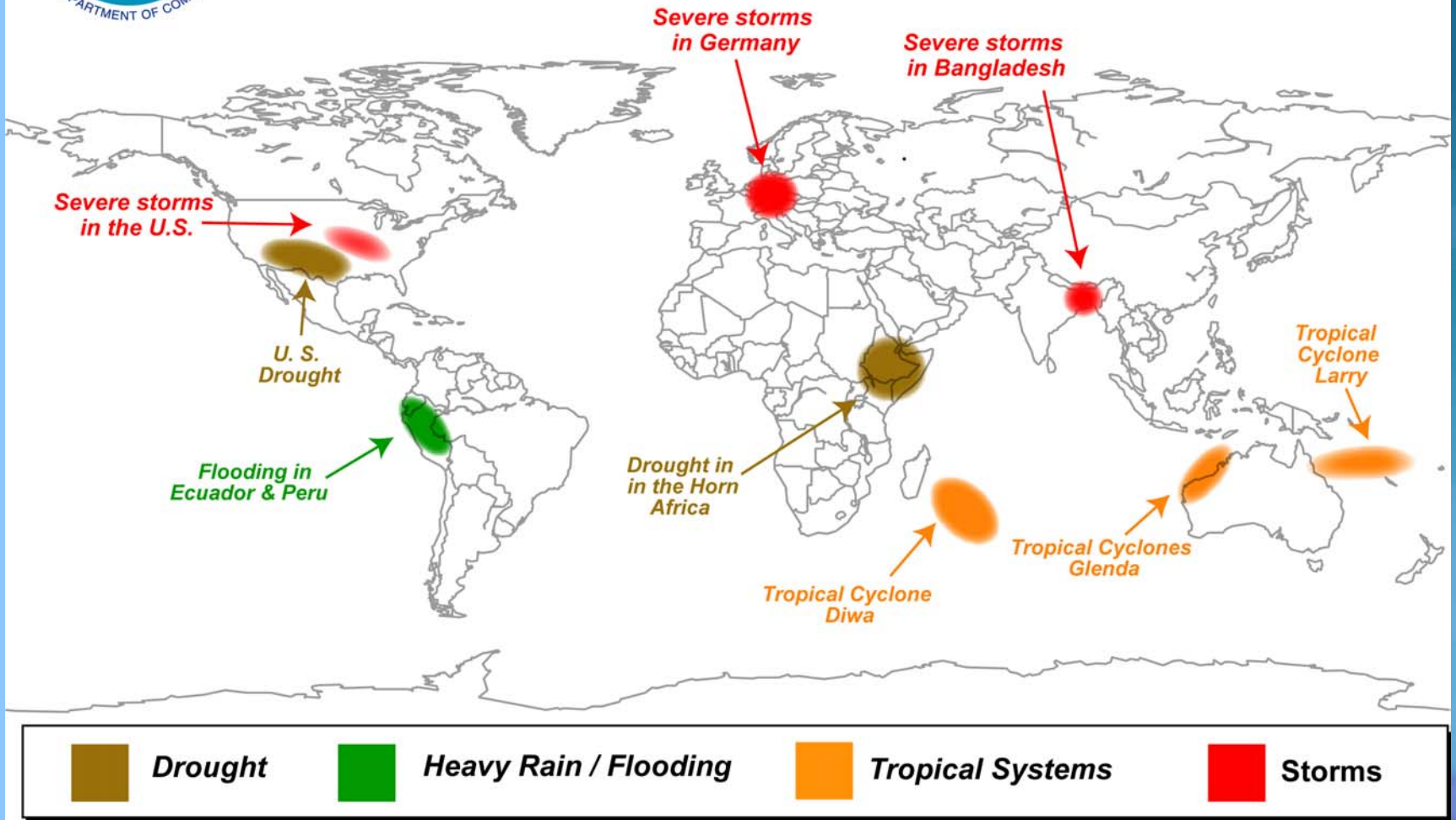
<http://ccc.atmos.colostate.edu>



March 2006

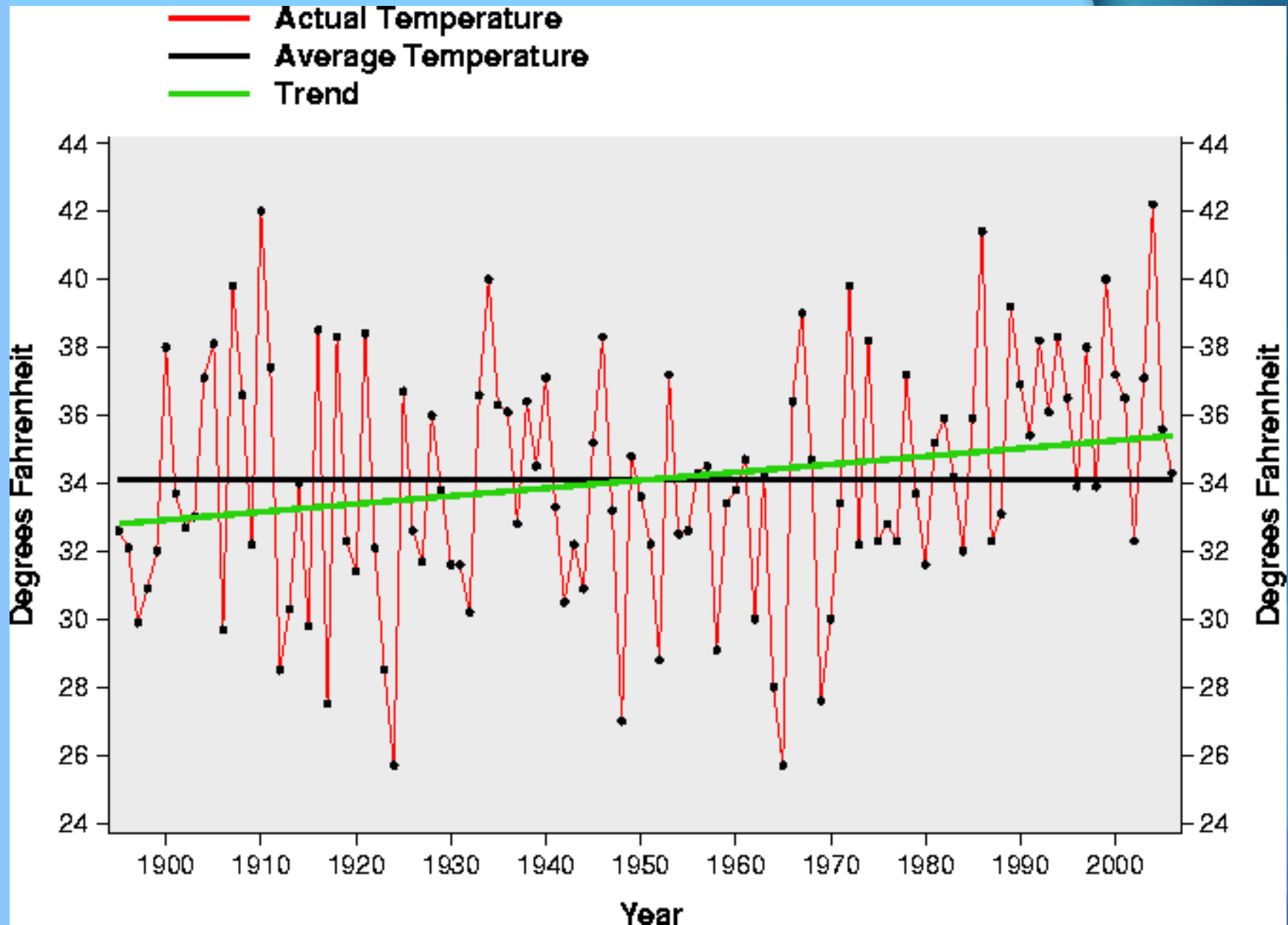


Selected Global Significant Events March 2006

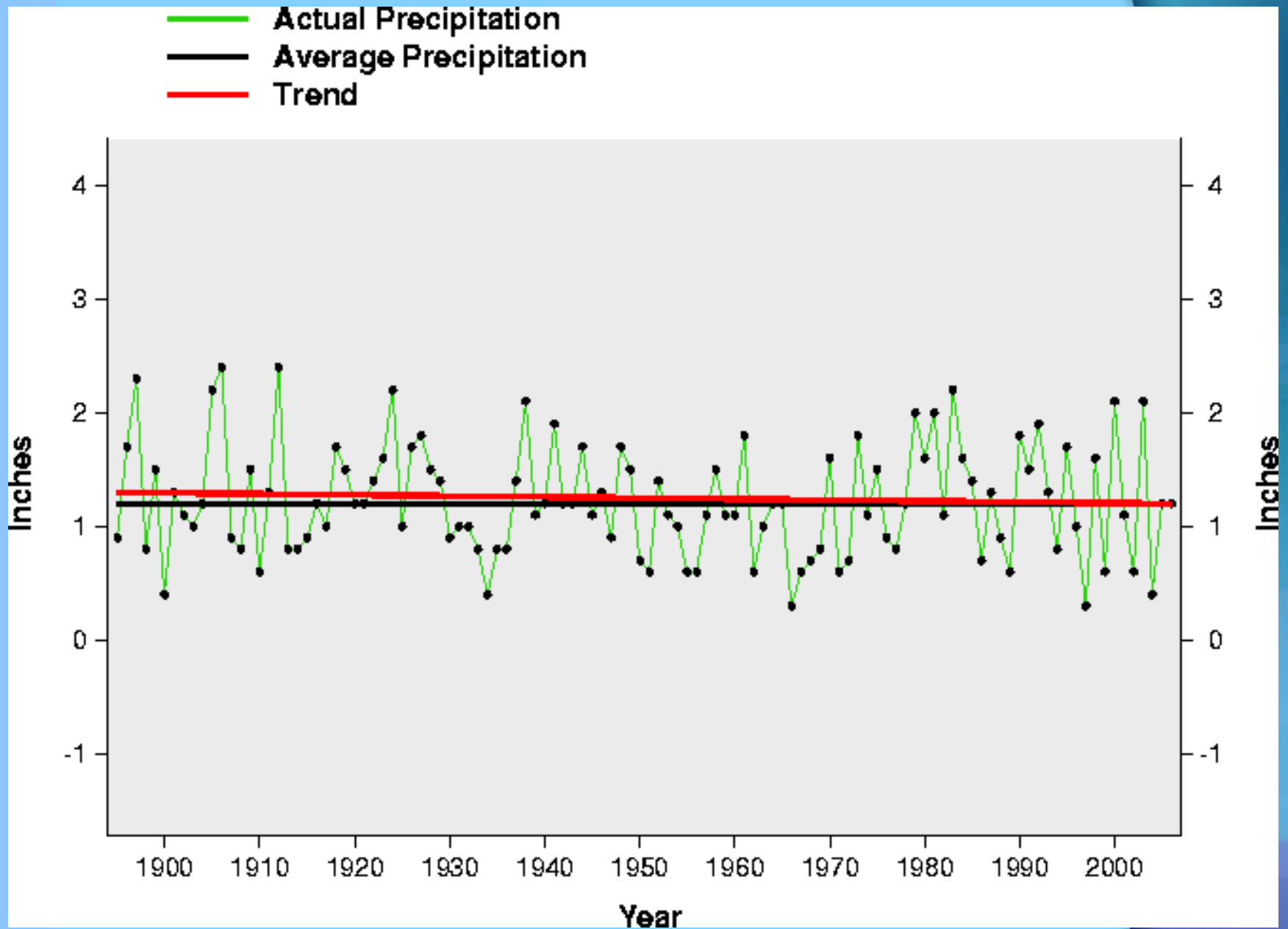


<http://www.ncdc.noaa.gov/oa/climate/research/2006/mar/mar06.html>

March Colorado Average Temperatures

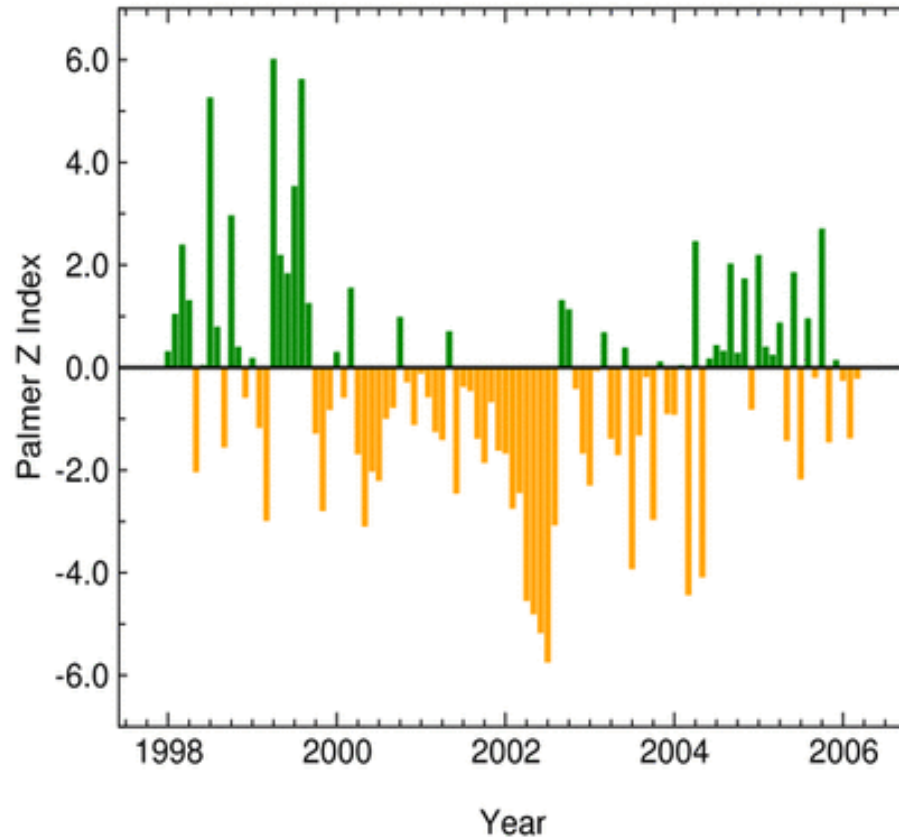


March Colorado Total Precipitation



March 2006

Colorado Statewide Z Index*
January 1998 - March 2006

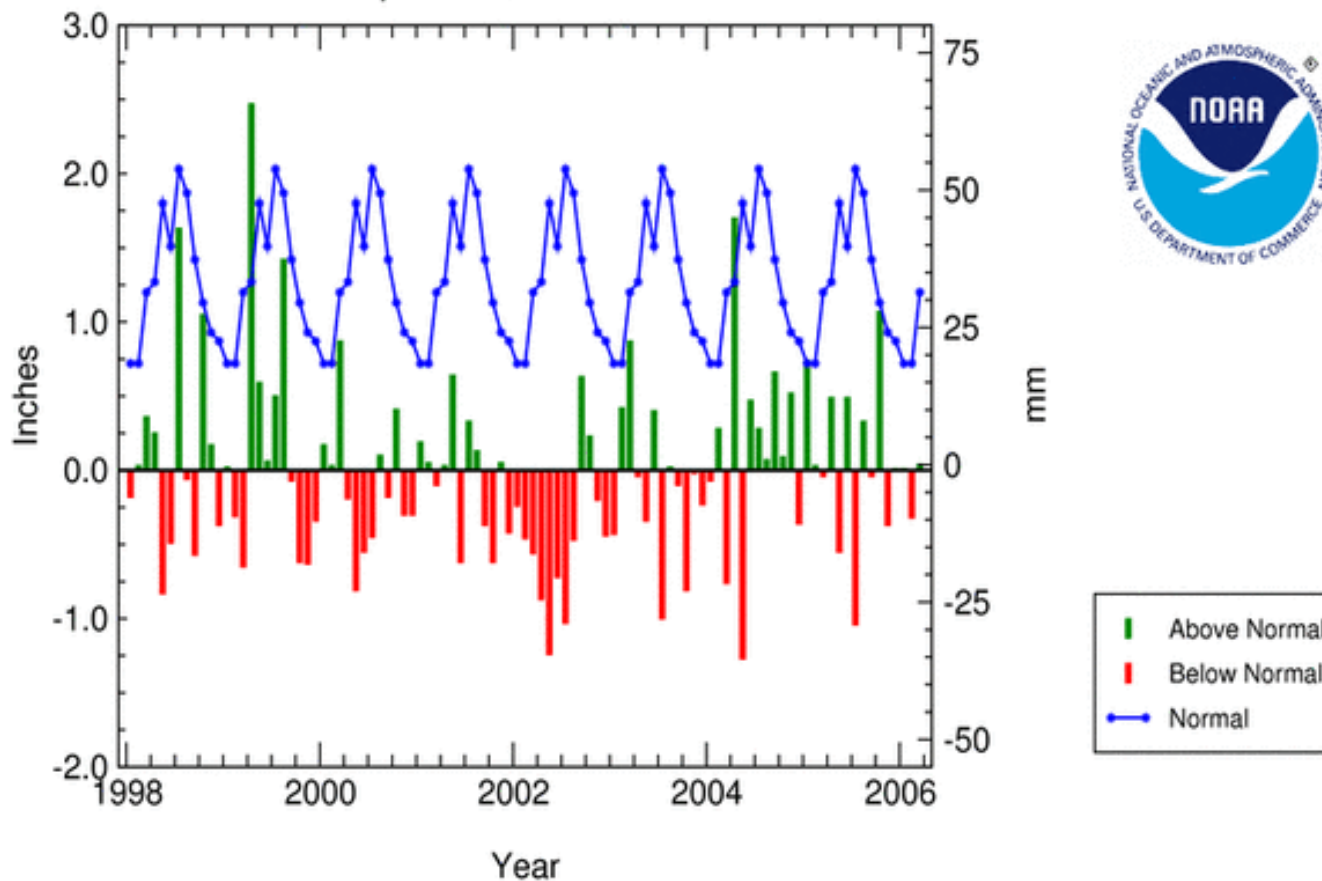


*Palmer Z Index
Short-Term Drought



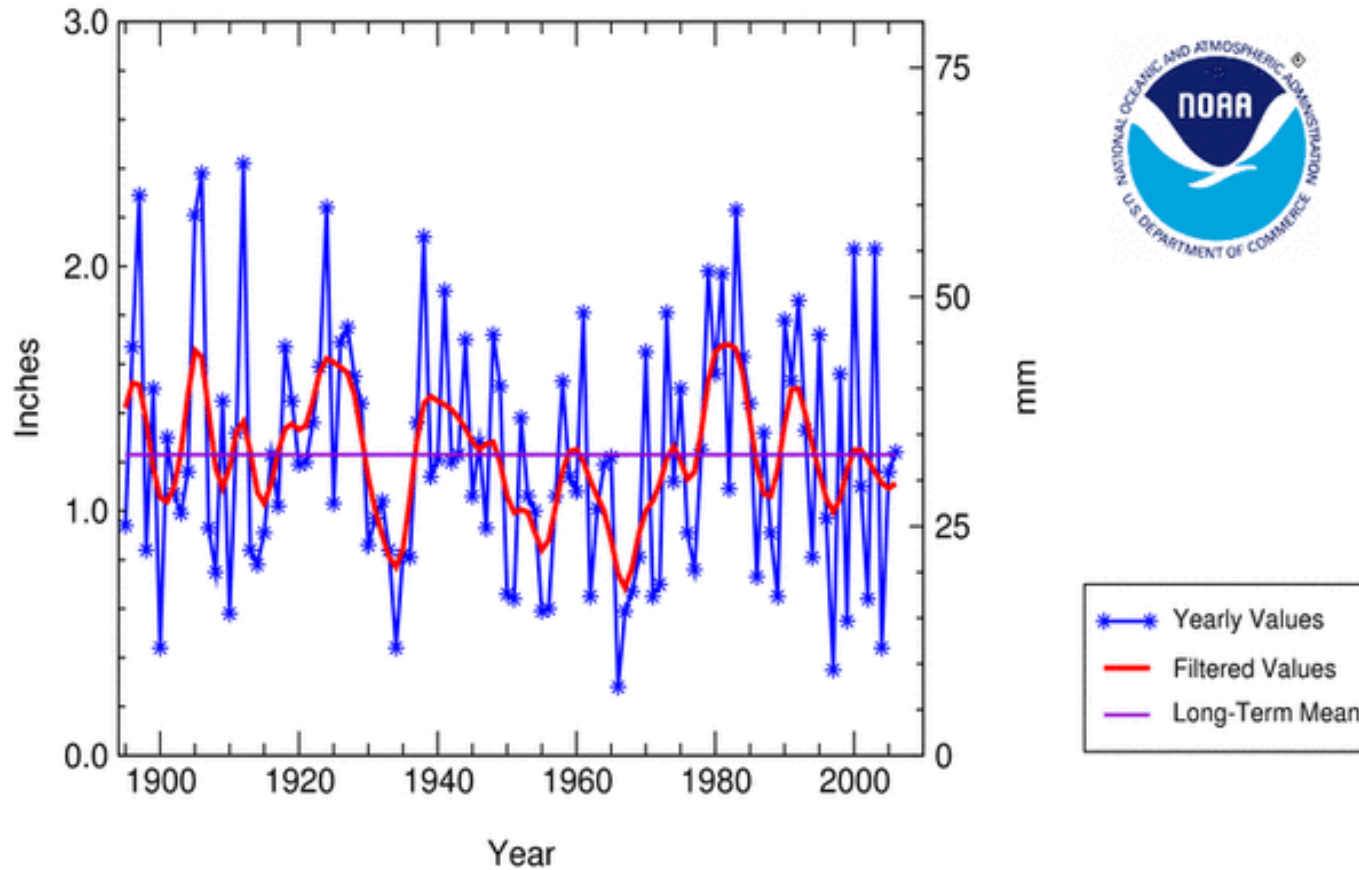
National Climatic Data Center / NESDIS / NOAA

Colorado Statewide Precipitation Normal & Departure, Jan 1998 - Mar 2006



National Climatic Data Center / NESDIS / NOAA

Colorado Statewide Precipitation March, 1895 - 2006



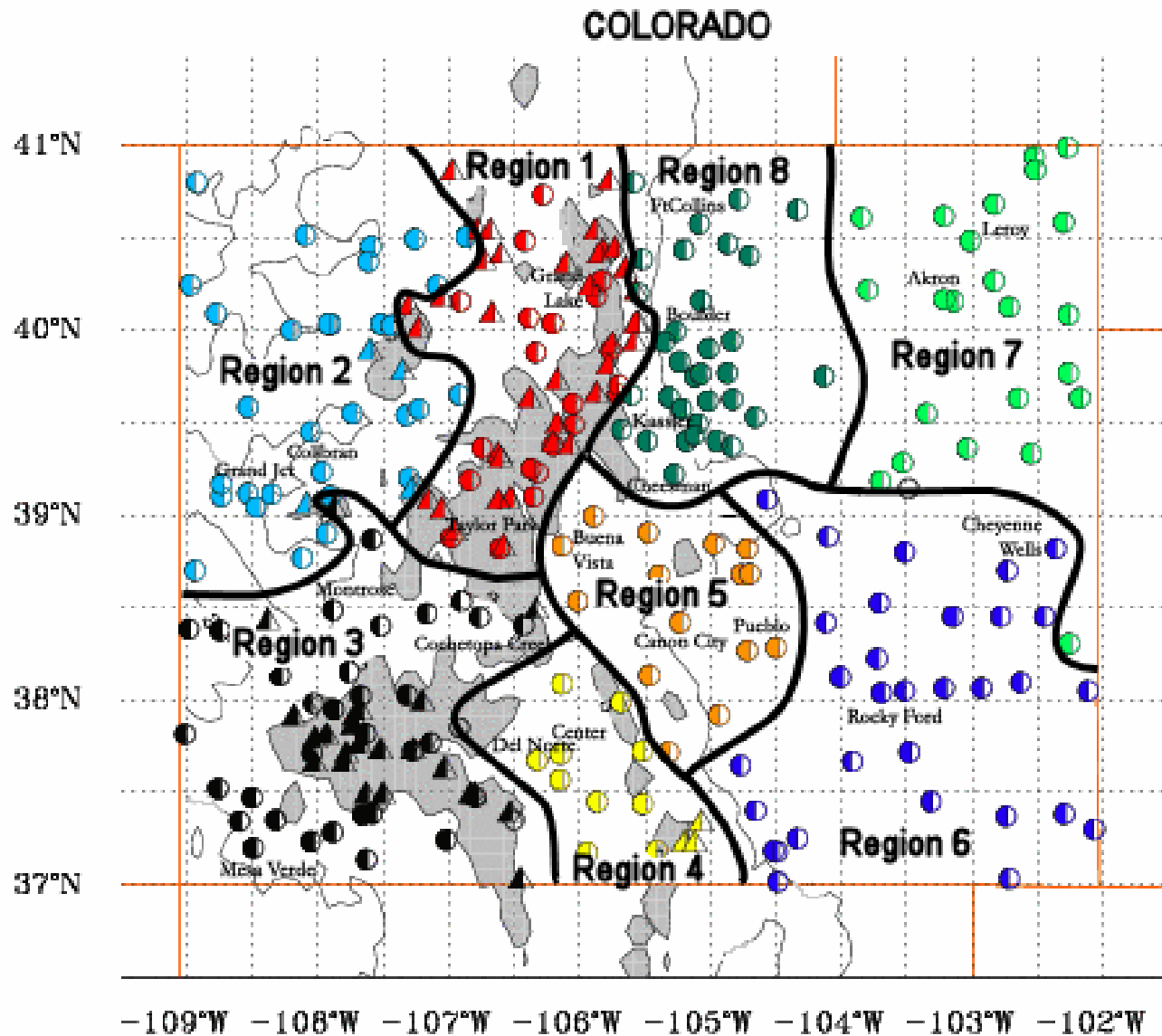
National Climatic Data Center / NESDIS / NOAA

Colorado Precipitation Ranking 1895-2006

Statewide Precipitation Ranks for Colorado , 2005-2006

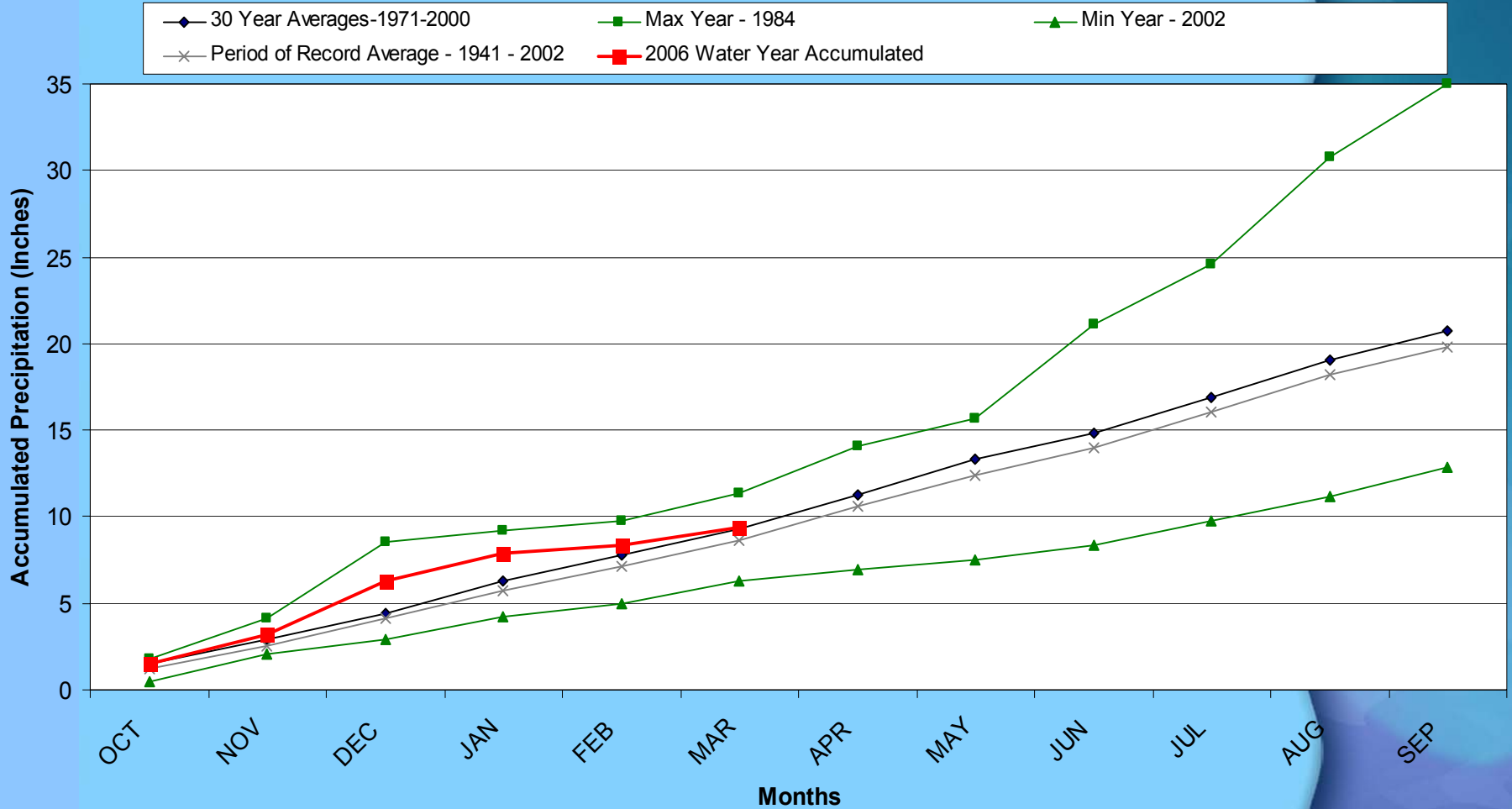
Period	Rank
Mar	48 th wettest (65 th driest)
Feb-Mar	35 th driest
Jan-Mar	30 th driest
Dec-Mar	36 th driest
Nov-Mar	29 th driest
Oct-Mar	45 th wettest (66 th driest)
Sep-Mar	46 th wettest (66 th driest)
Aug-Mar	42 nd wettest (70 th driest)
Jul-Mar	48 th driest
Jun-Mar	55 th driest
May-Mar	48 th driest
Apr-Mar	48 th driest

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



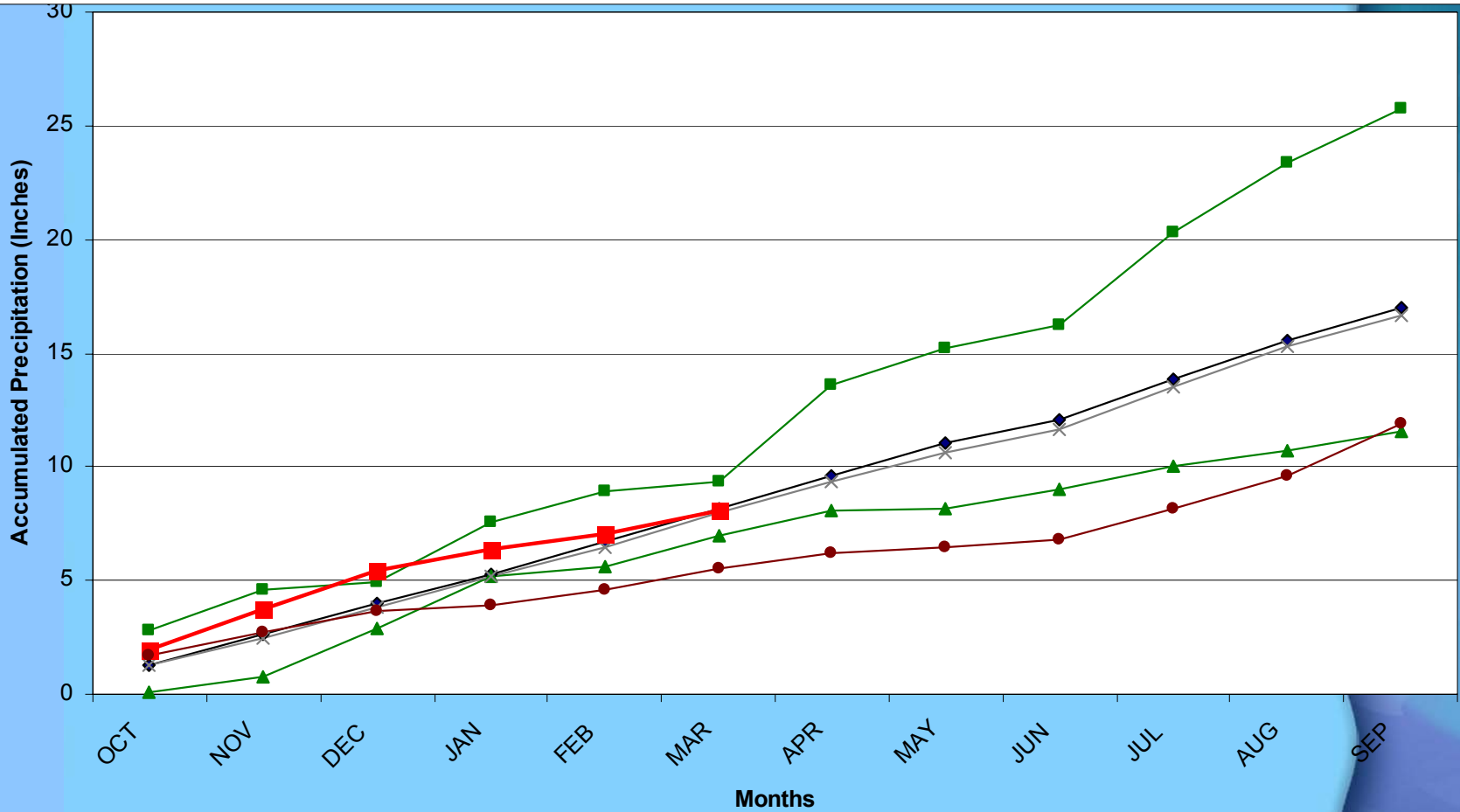
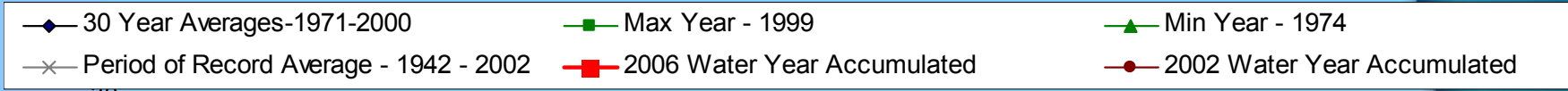
Division 1- Grand Lake 1NW

Grand Lake 1 NW 2006 Water Year



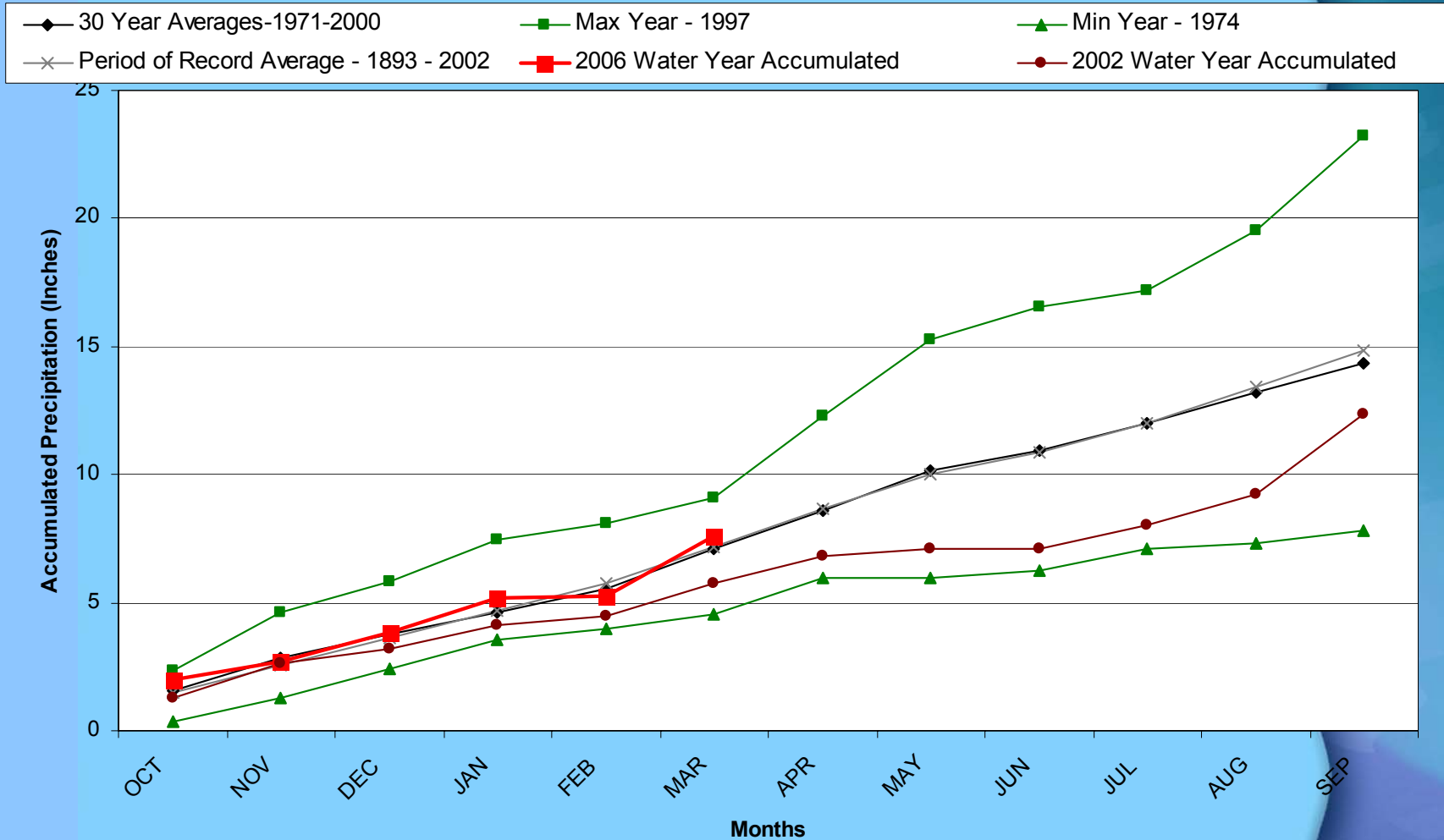
Division 1– Taylor Park

Taylor Park 2006 Water Year



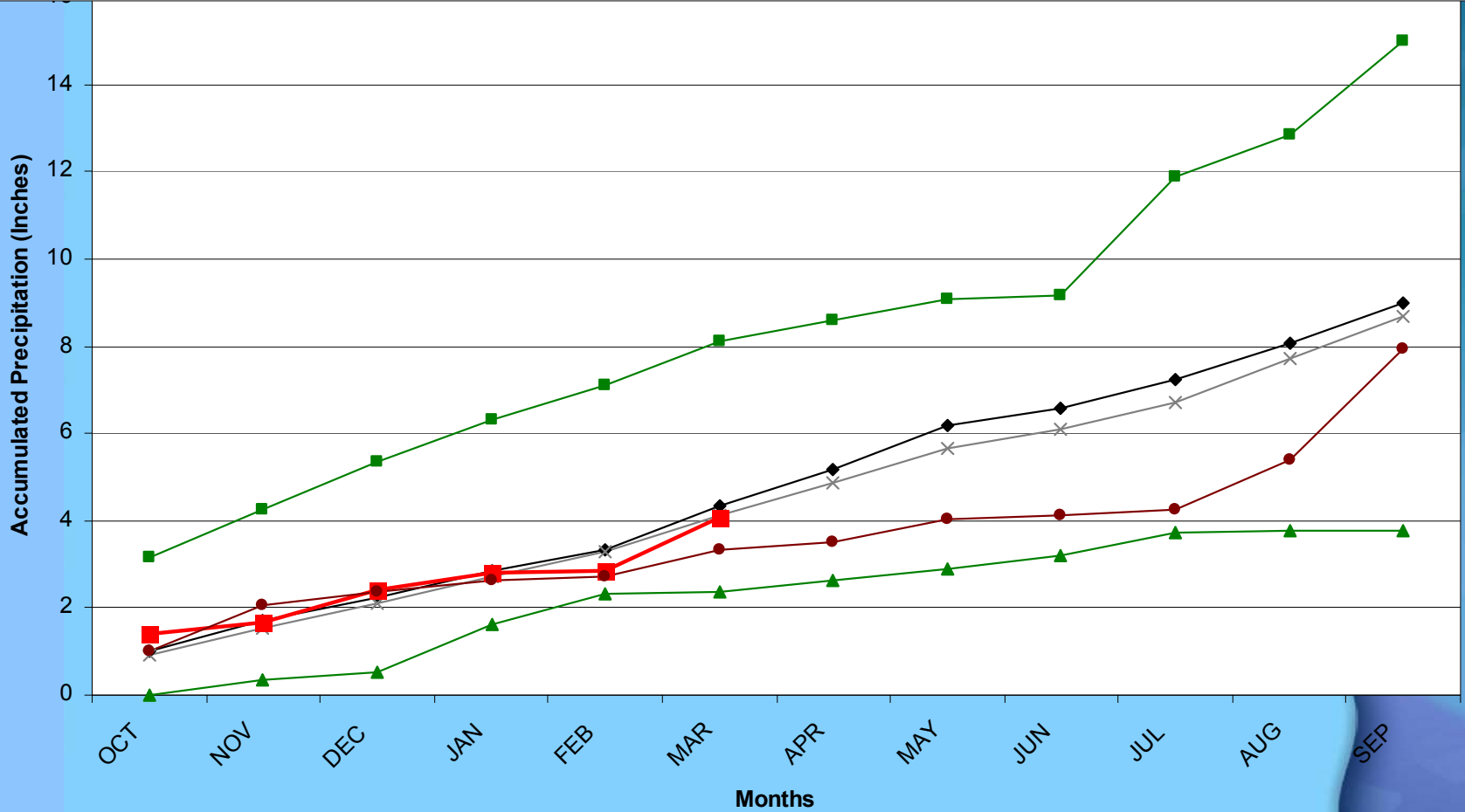
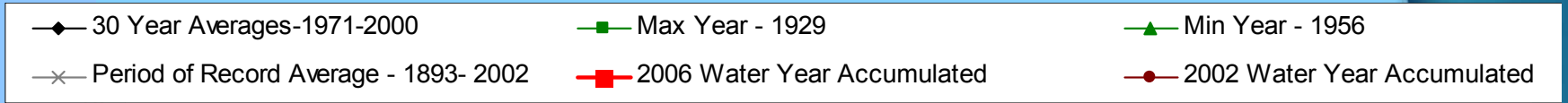
Division 2 – Collbran

Collbran 2SW 2006 Water Year



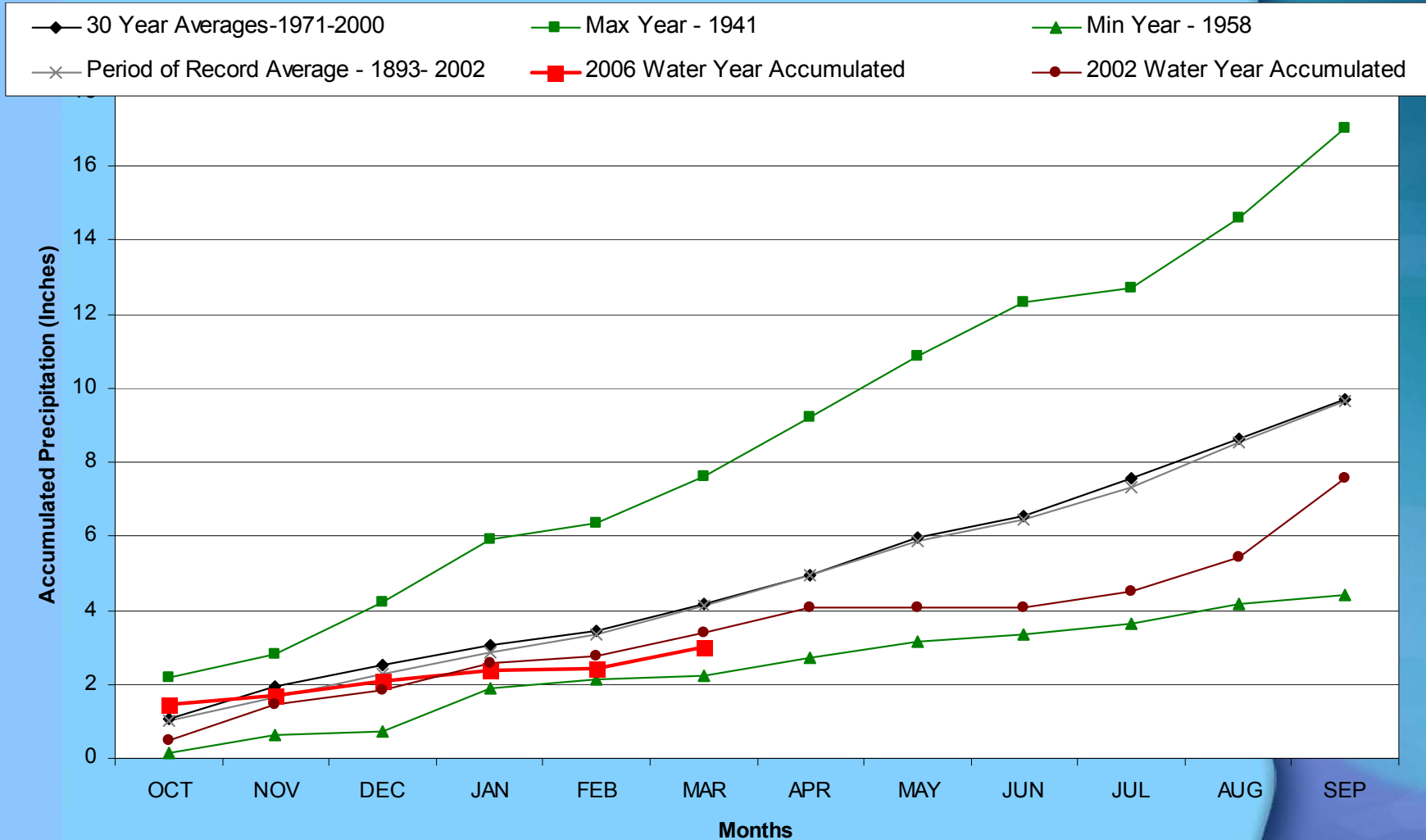
Division 2 – Grand Junction

Grand Junction WSFO 2006 Water Year



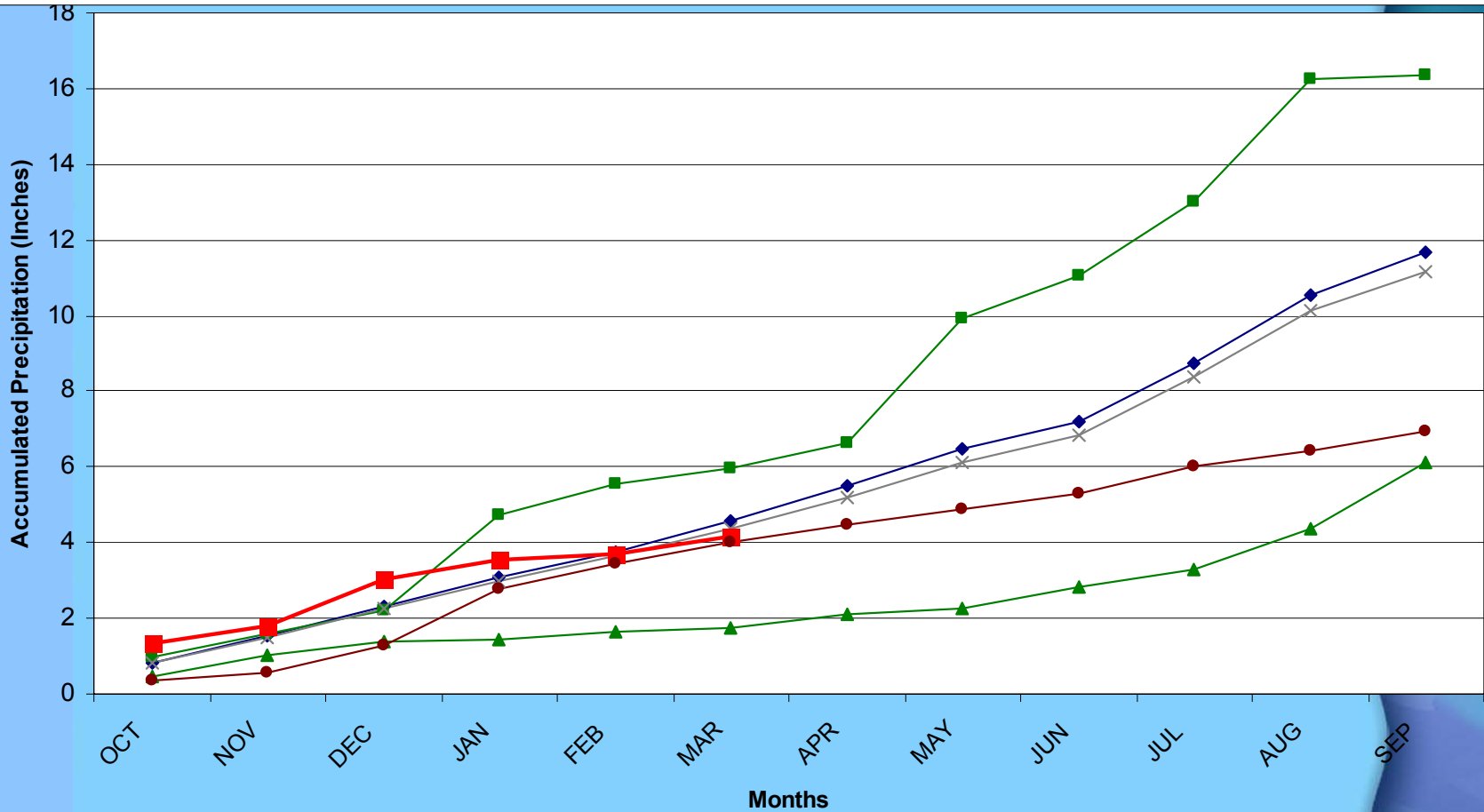
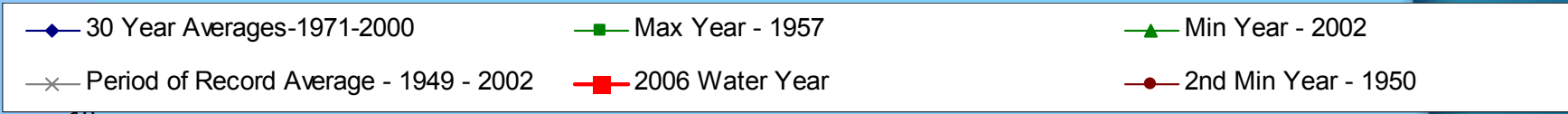
Division 3 – Montrose

Montrose #2 2006 Water Year



Division 3 – Cochetopa Creek

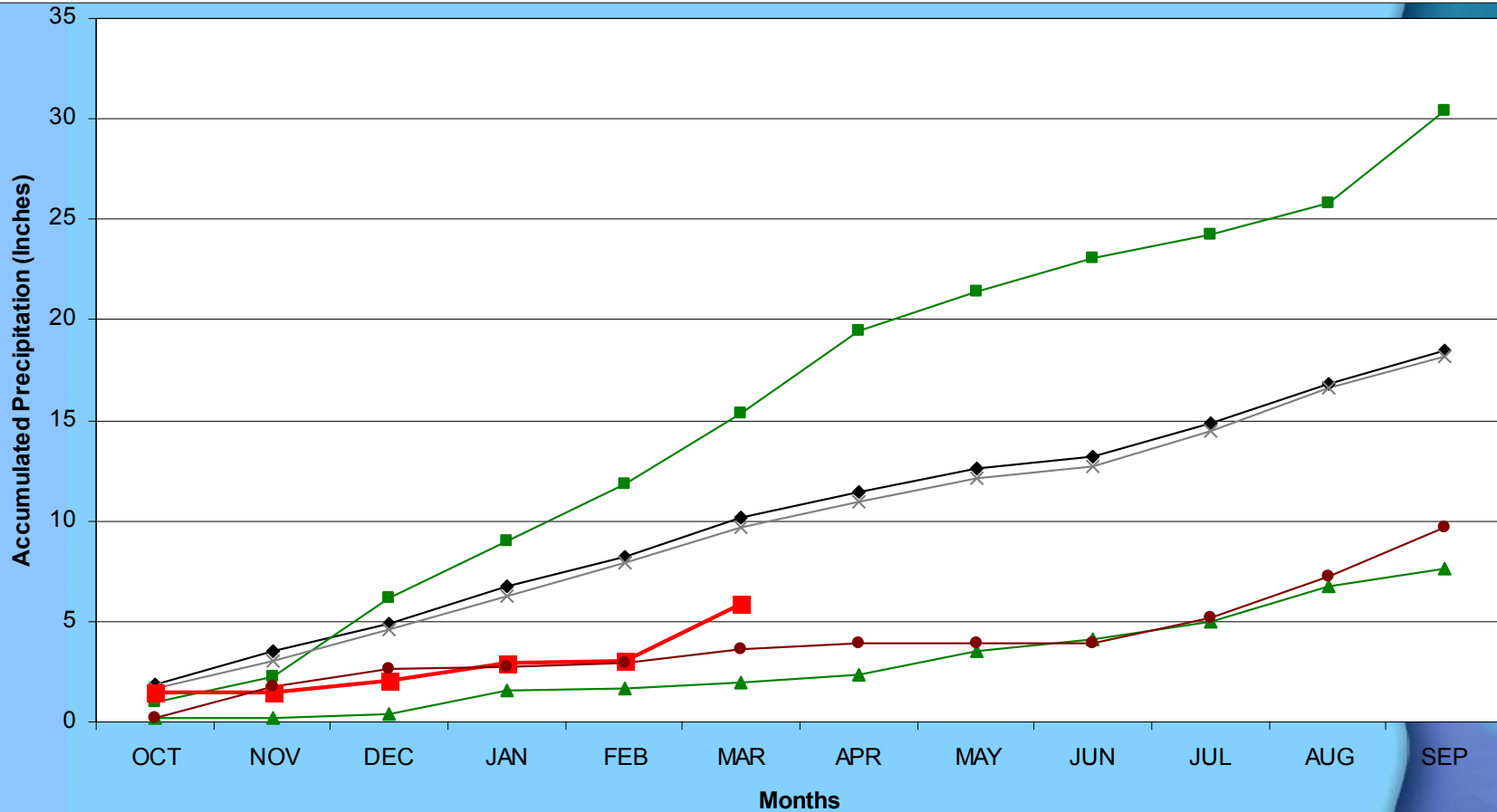
Cochetopa Creek 2006 Water Year



Division 3 – Mesa Verde

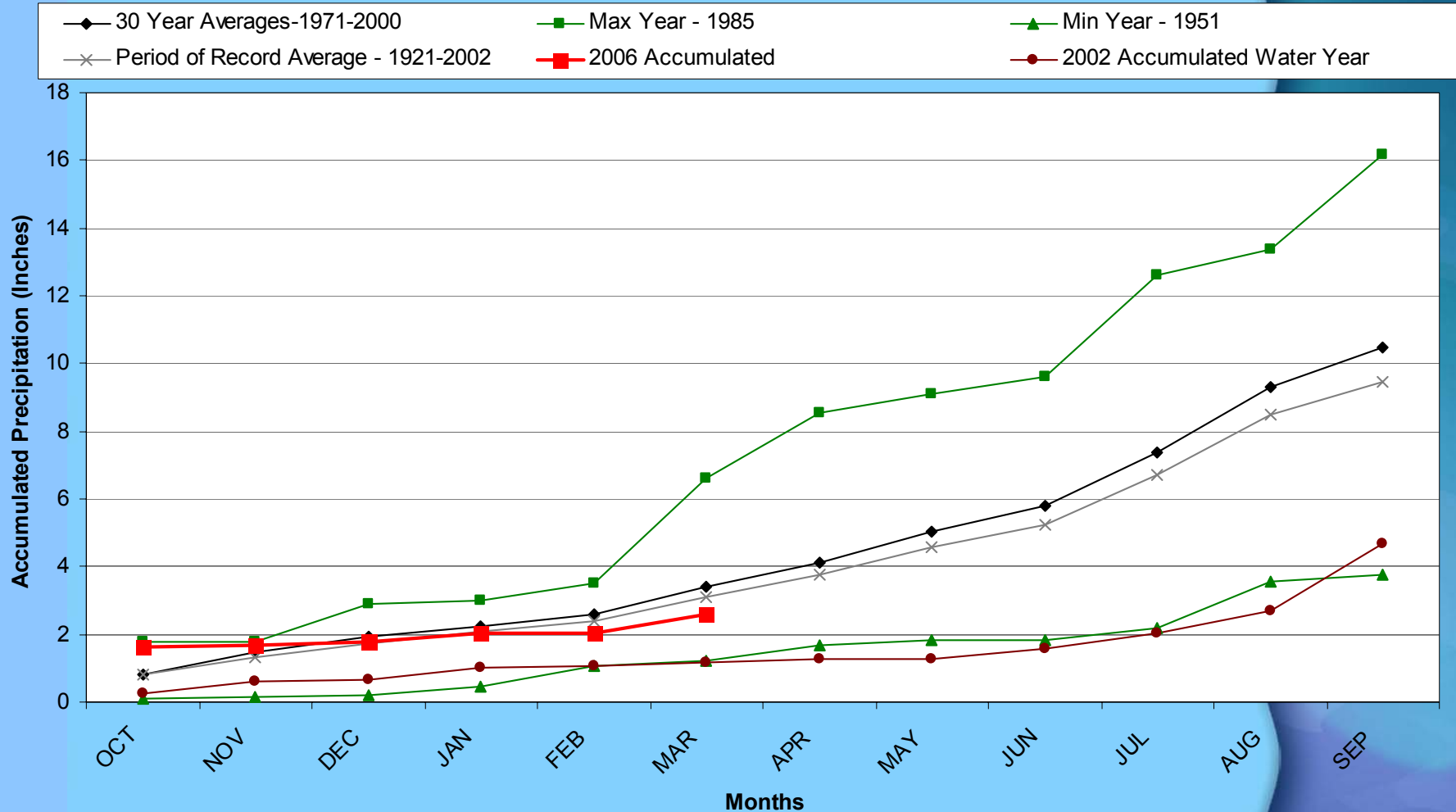
Mesa Verde NP 2006 Water Year

◆ 30 Year Averages-1971-2000 ■ Max Year - 1941 ▲ Min Year - 1977
× Period of Record Average - 1893- 2002 ■ 2006 Water Year Accumulated ● 2002 Water Year



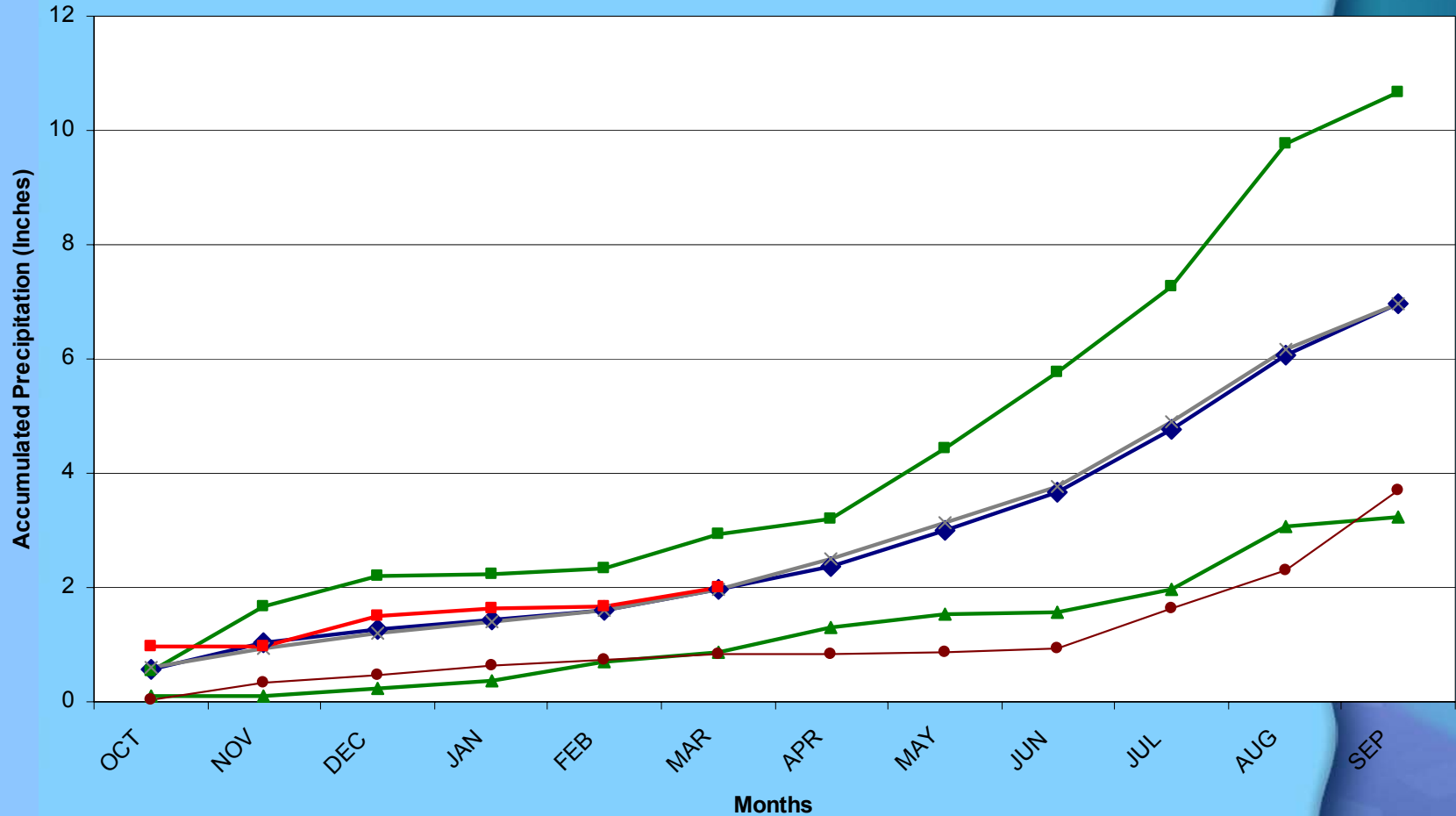
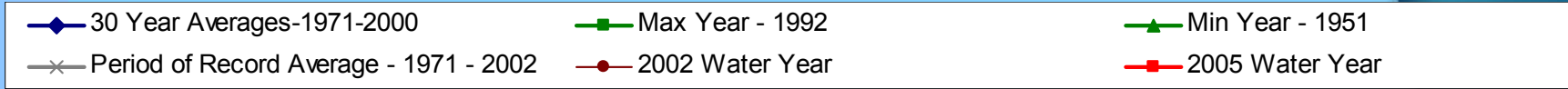
Division 4 – Del Norte

Del Norte 2006 Water Year



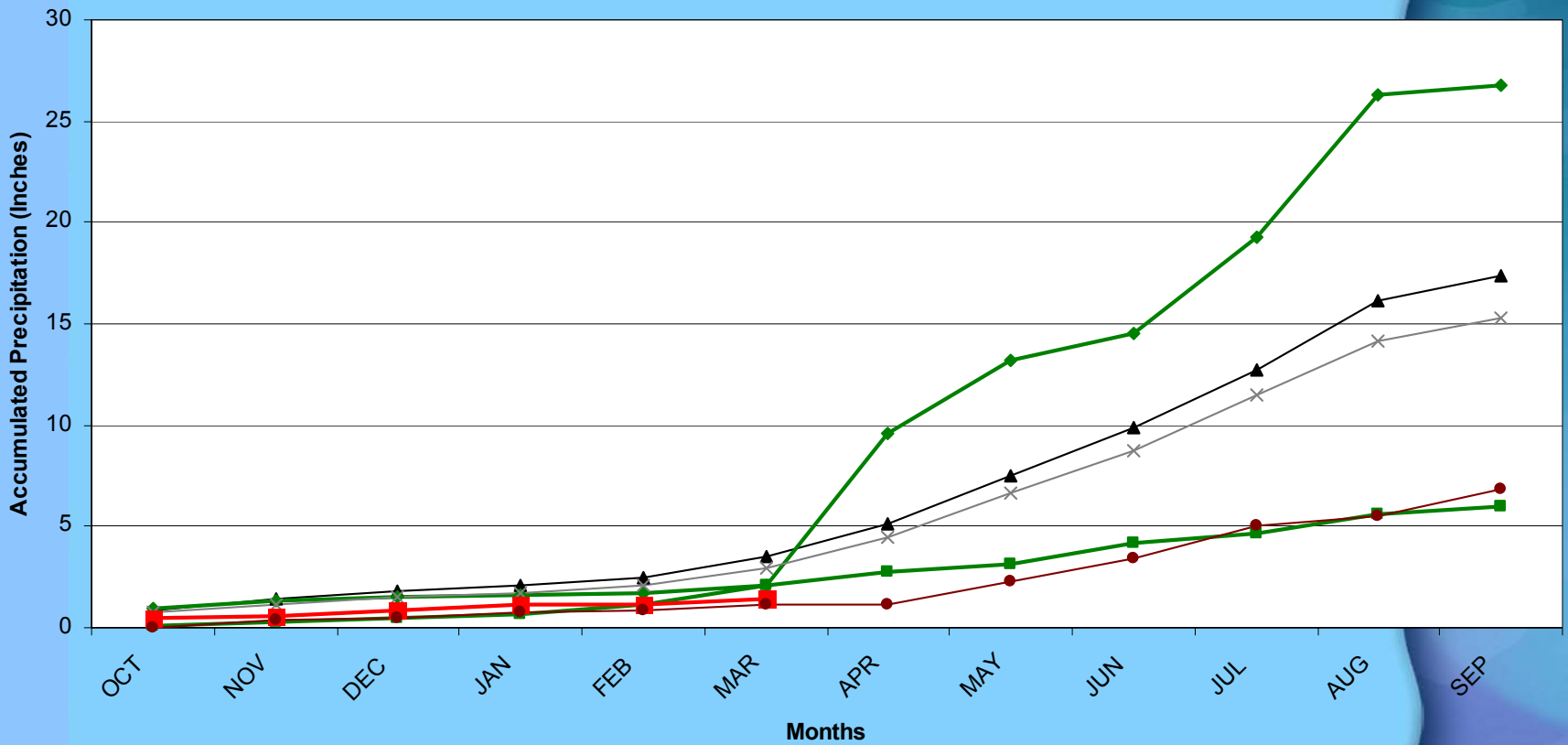
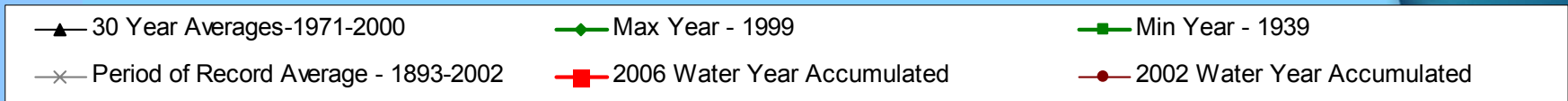
Division 4 – Center 4SSW

Center 4SSW 2006 Water Year



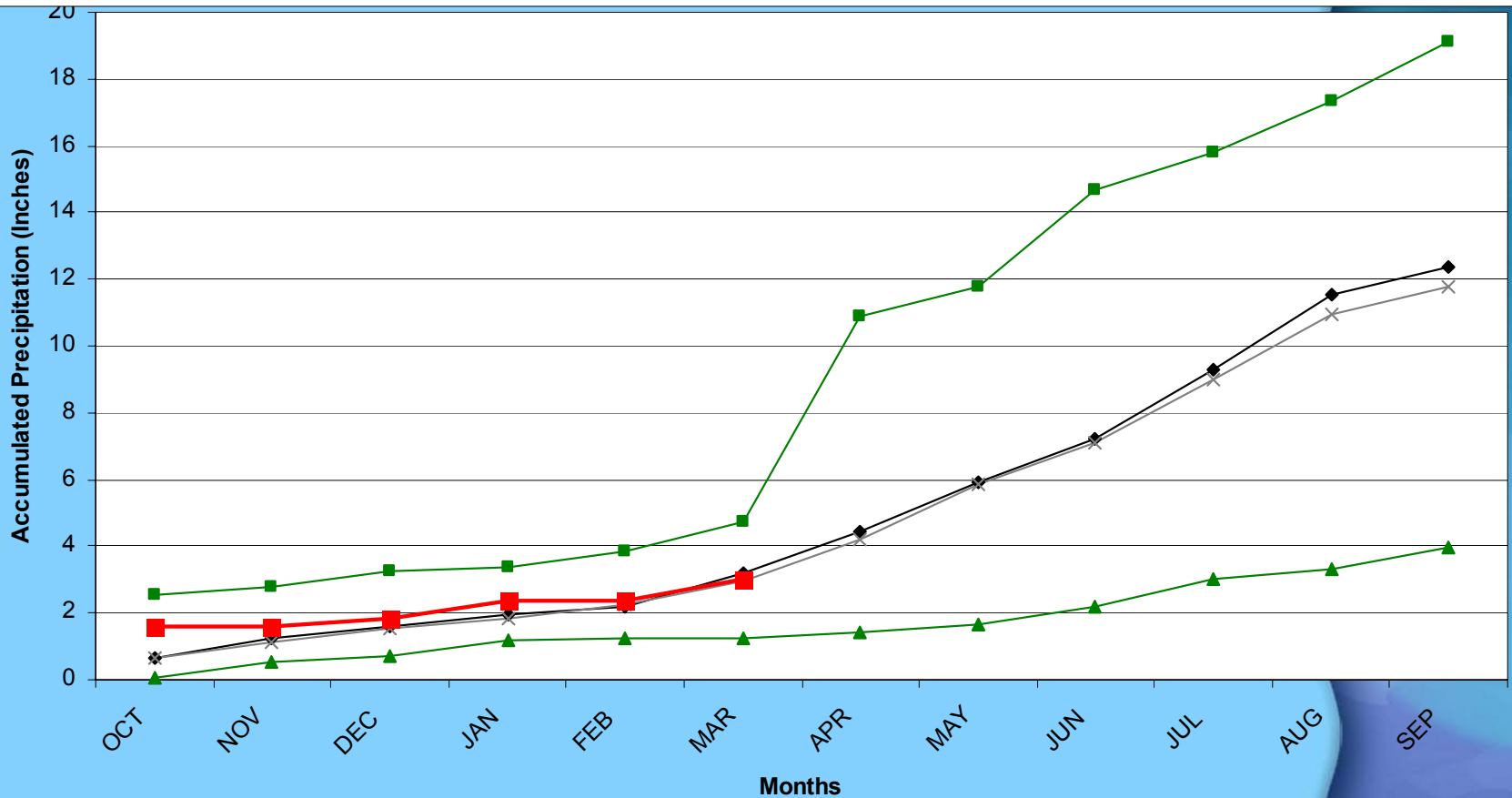
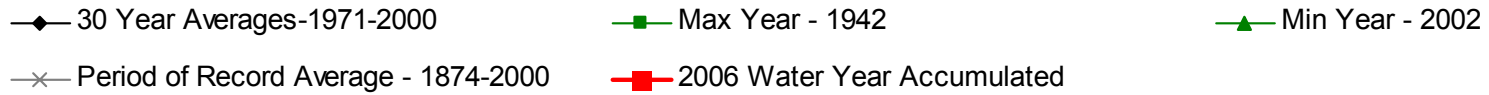
Division 5 – Colorado Springs

Colorado Springs 2006 Water Year



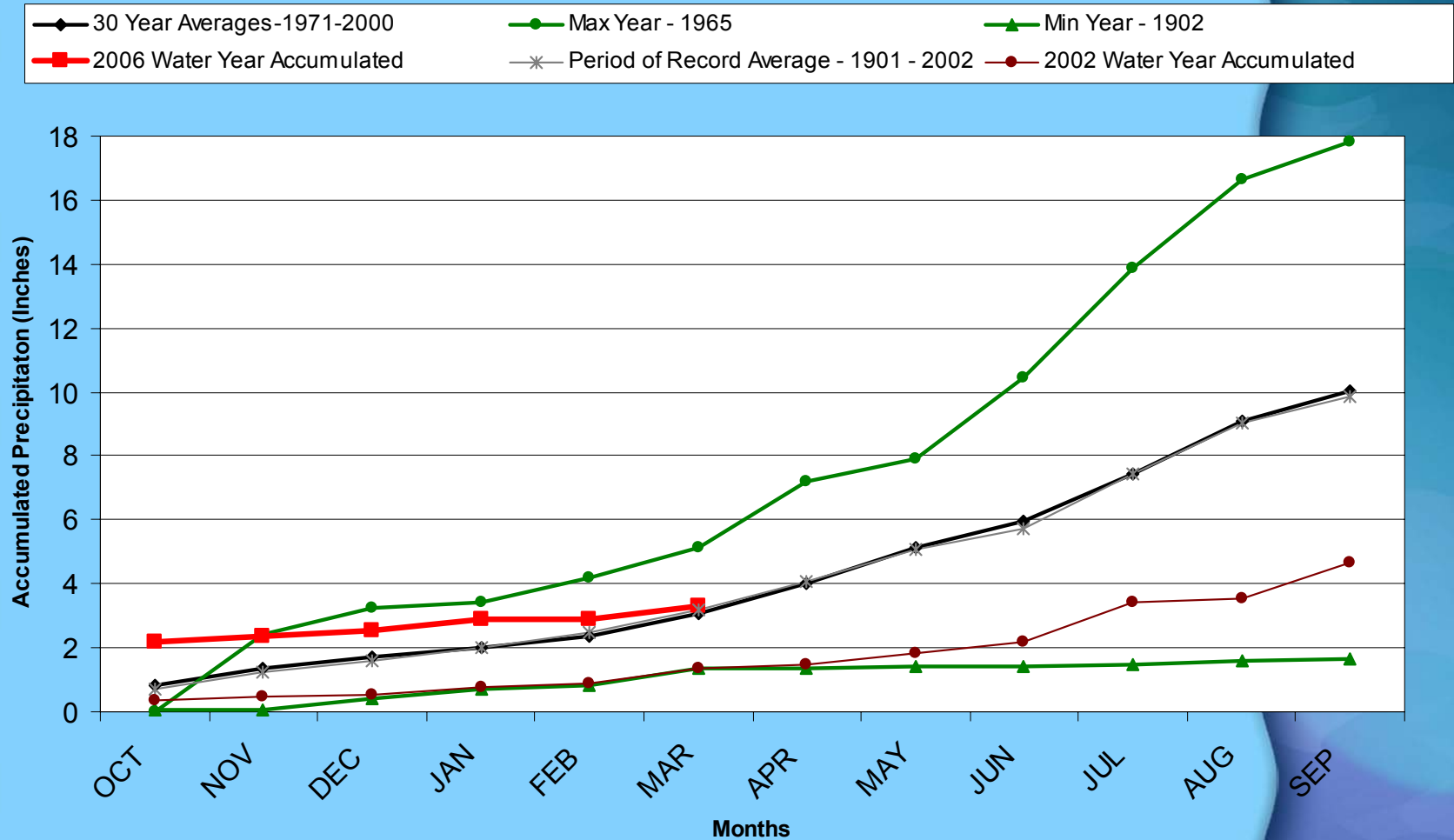
Division 5 – Pueblo

Pueblo WSO 2006 Water Year



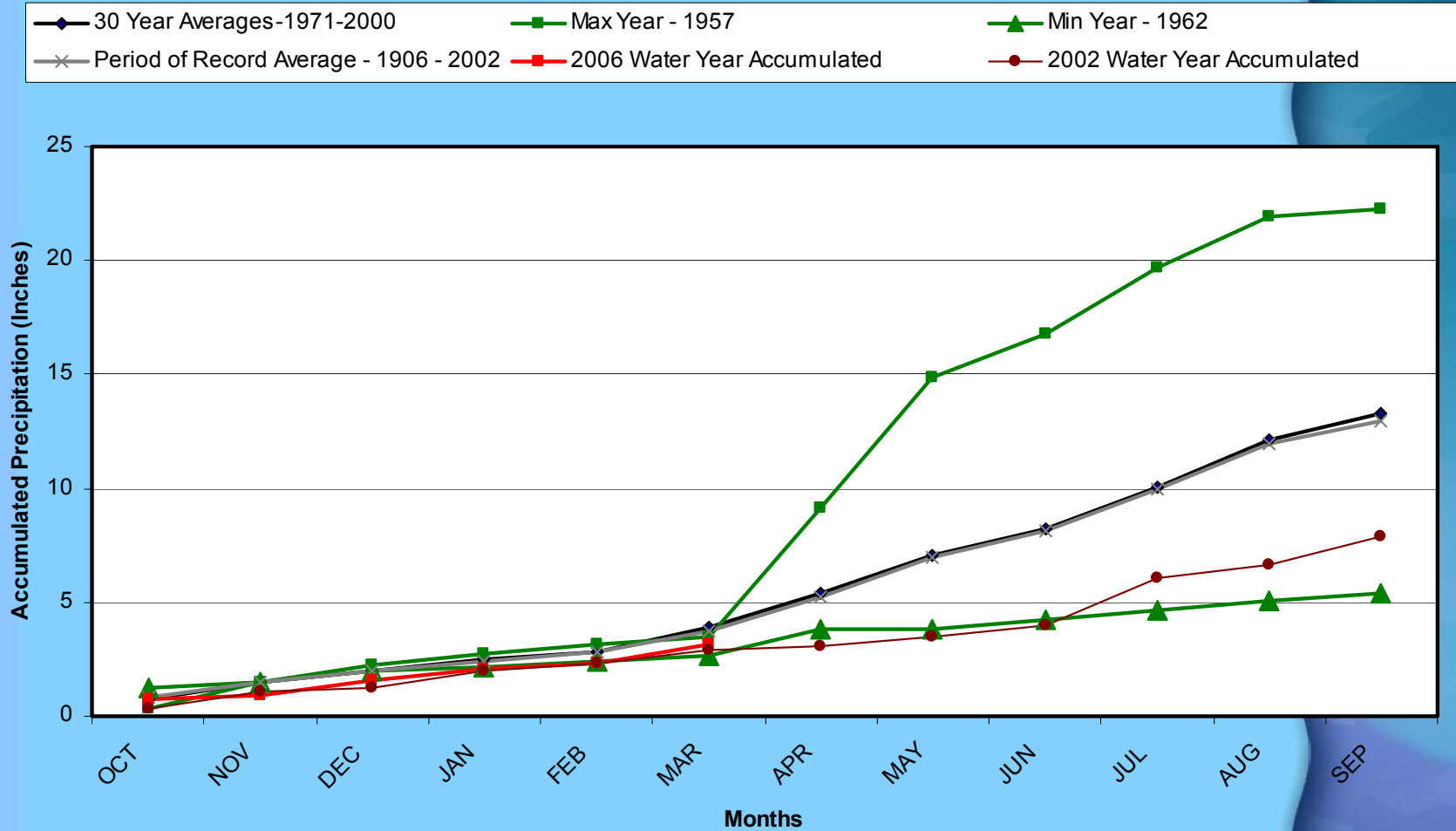
Division 5 – Buena Vista

Buena Vista 2006 Water Year



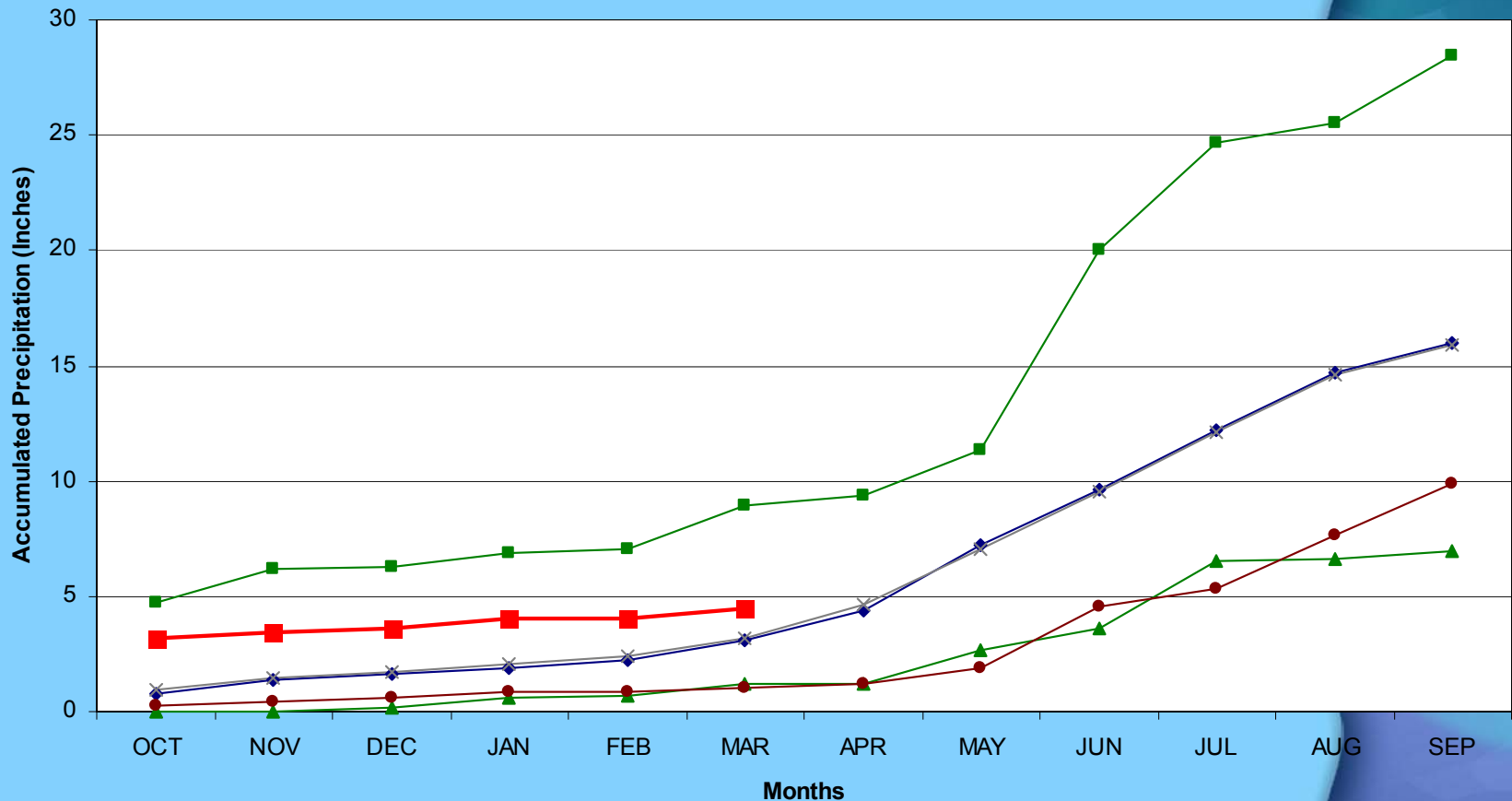
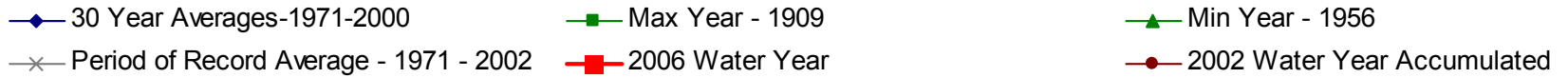
Division 5 – Canon City

Canon City 2006 Water Year



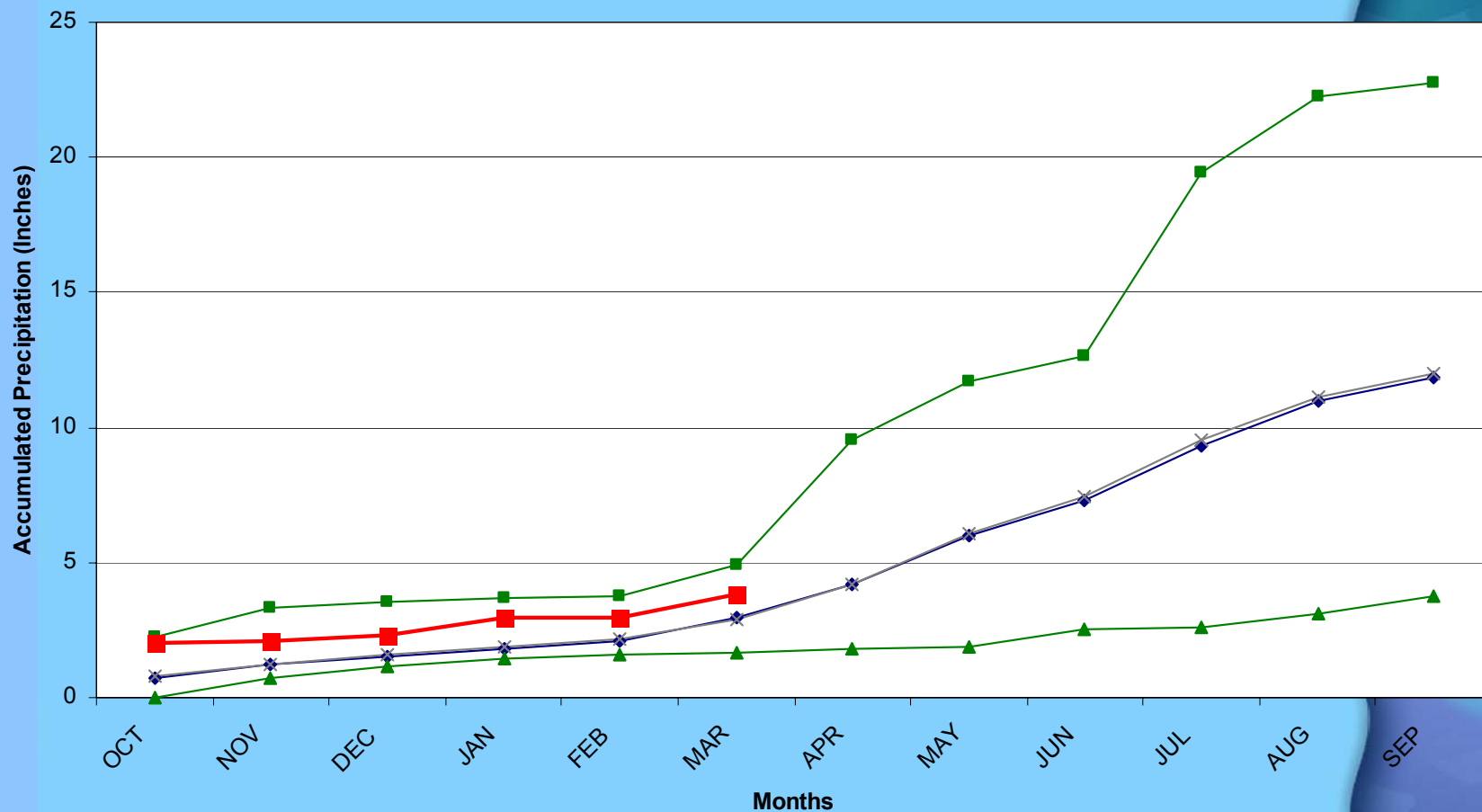
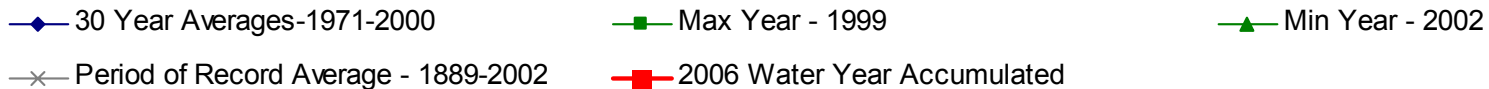
Division 6 – Cheyenne Wells

Cheyenne Wells 2006 Water Year



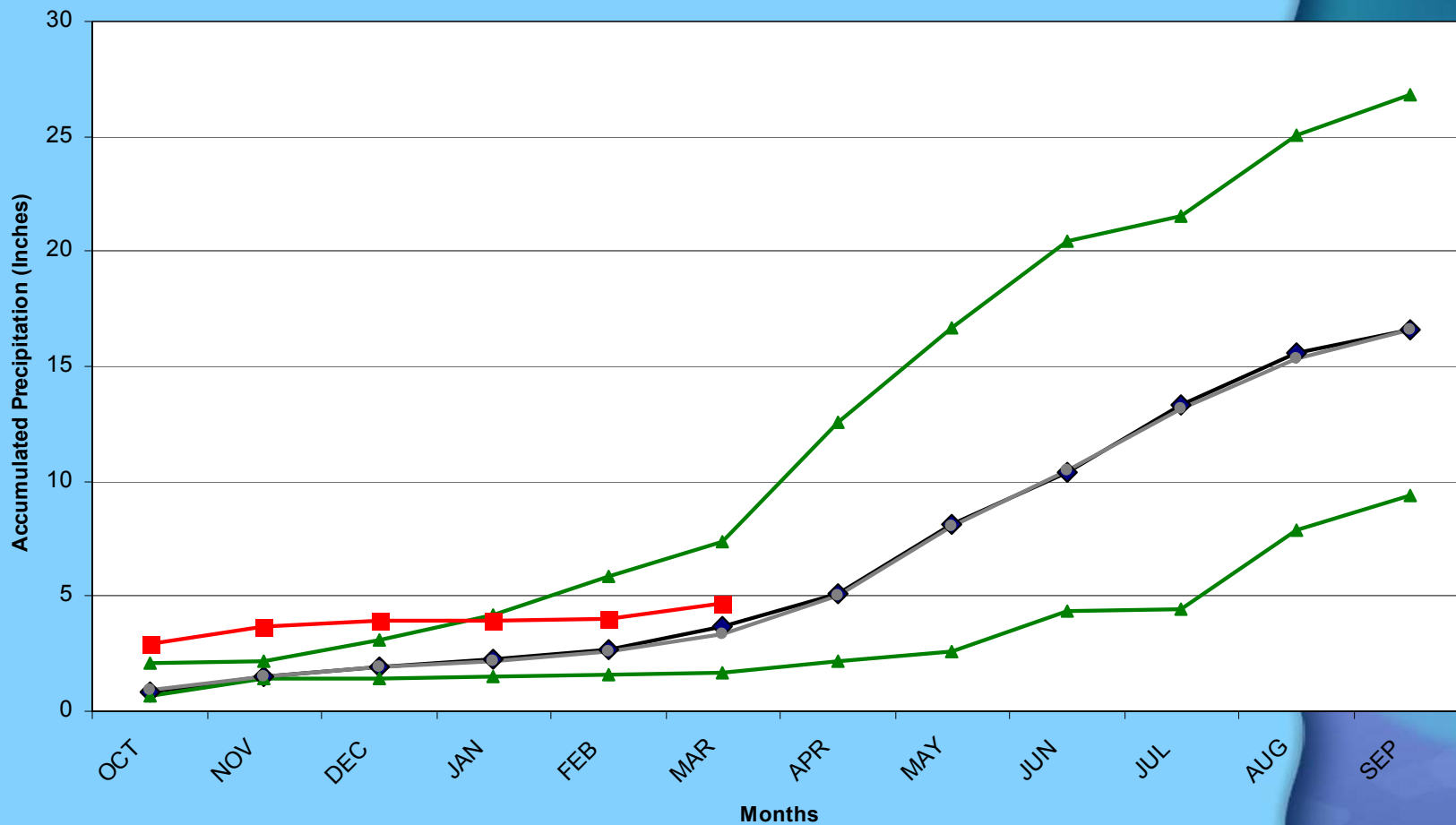
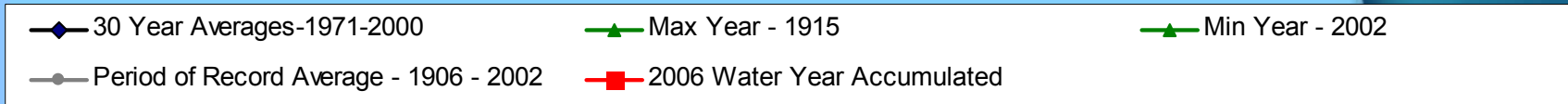
Division 6 – Rocky Ford

Rocky Ford 2006 Water Year



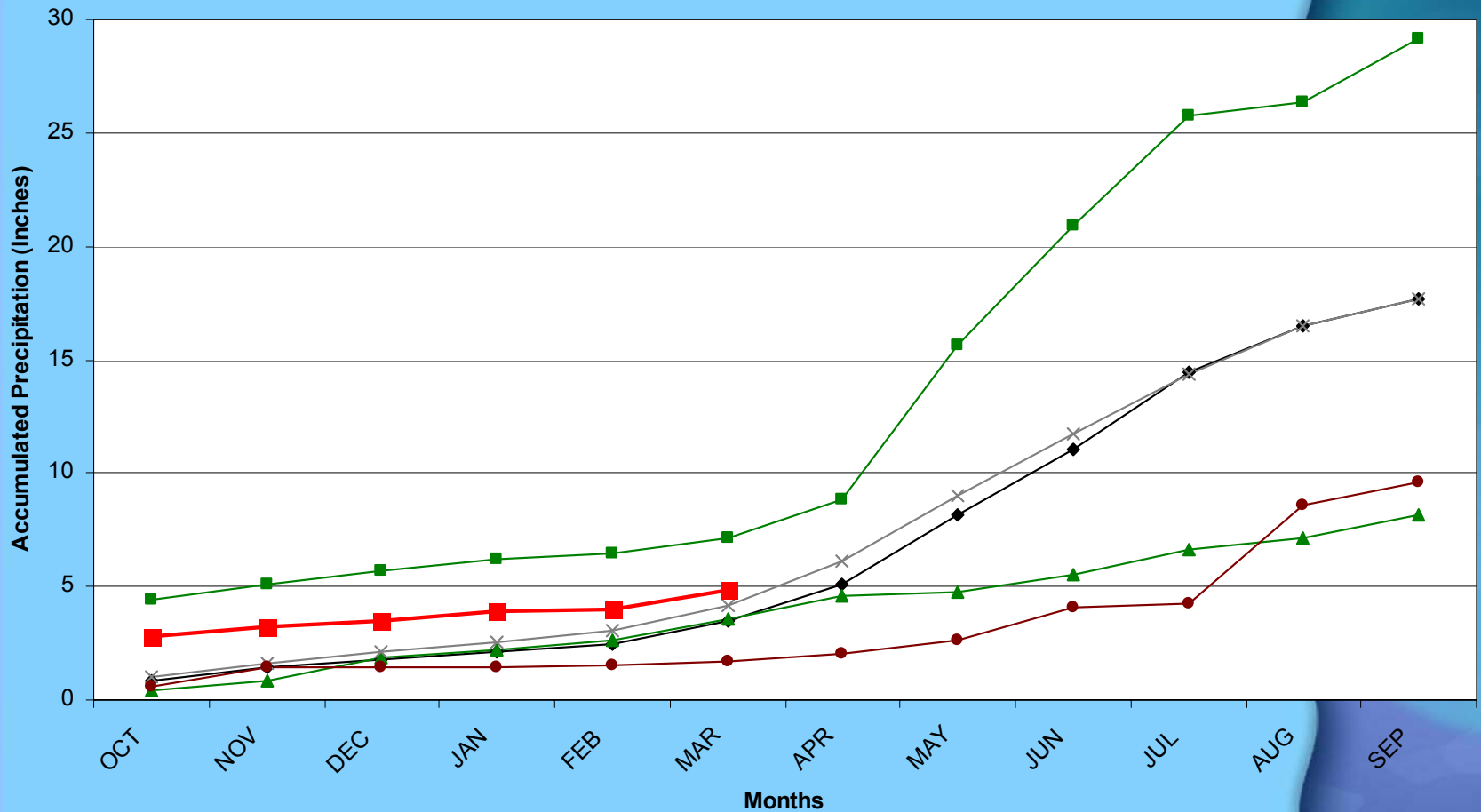
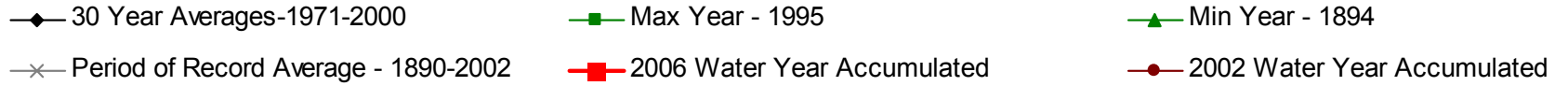
Division 7 – Akron

Akron 4E 2006 Water Year



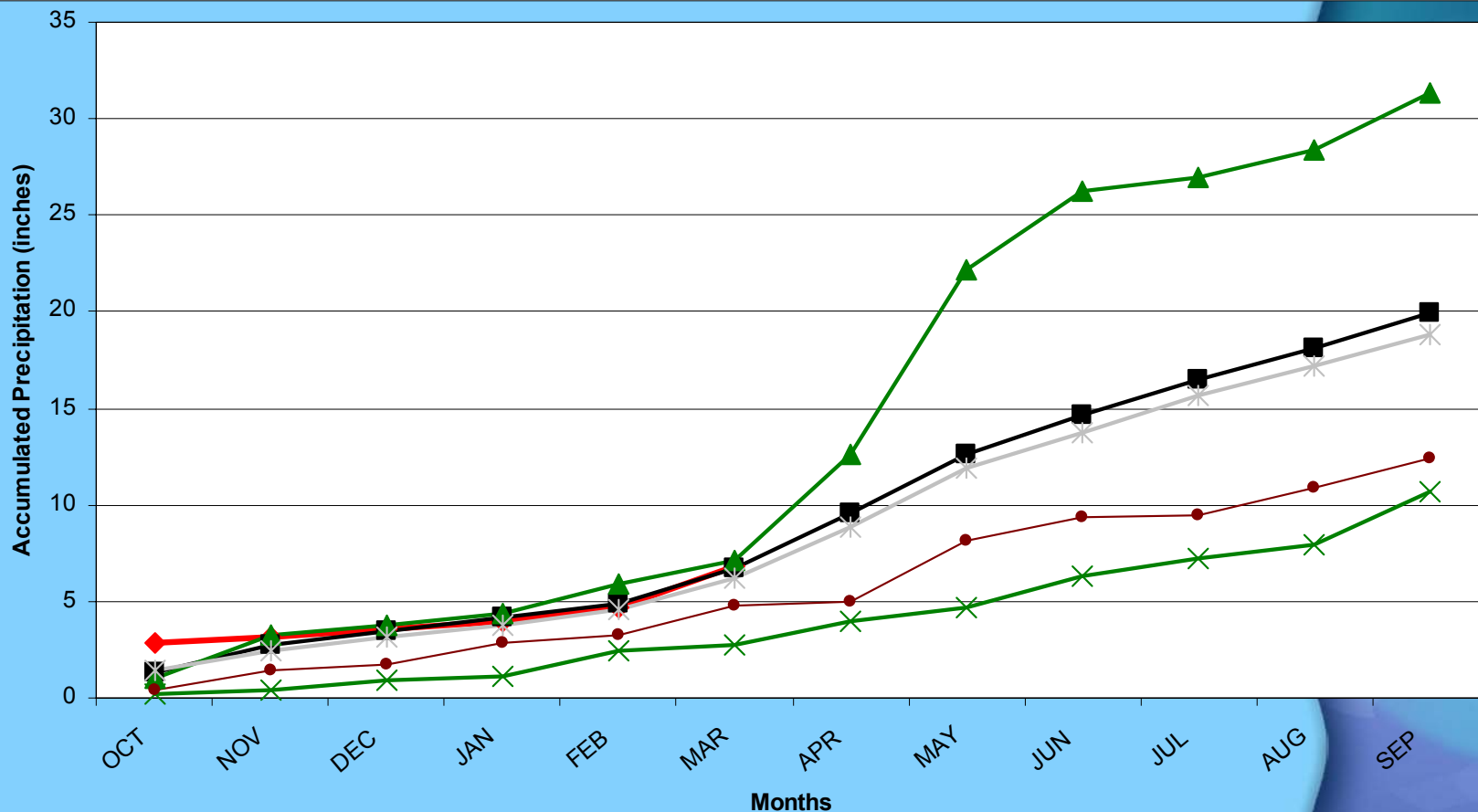
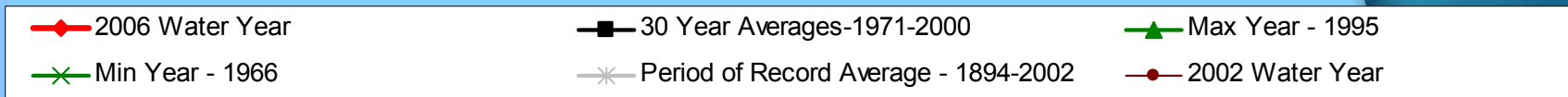
Division 7 – Leroy

Leroy 5SW 2006 Water Year



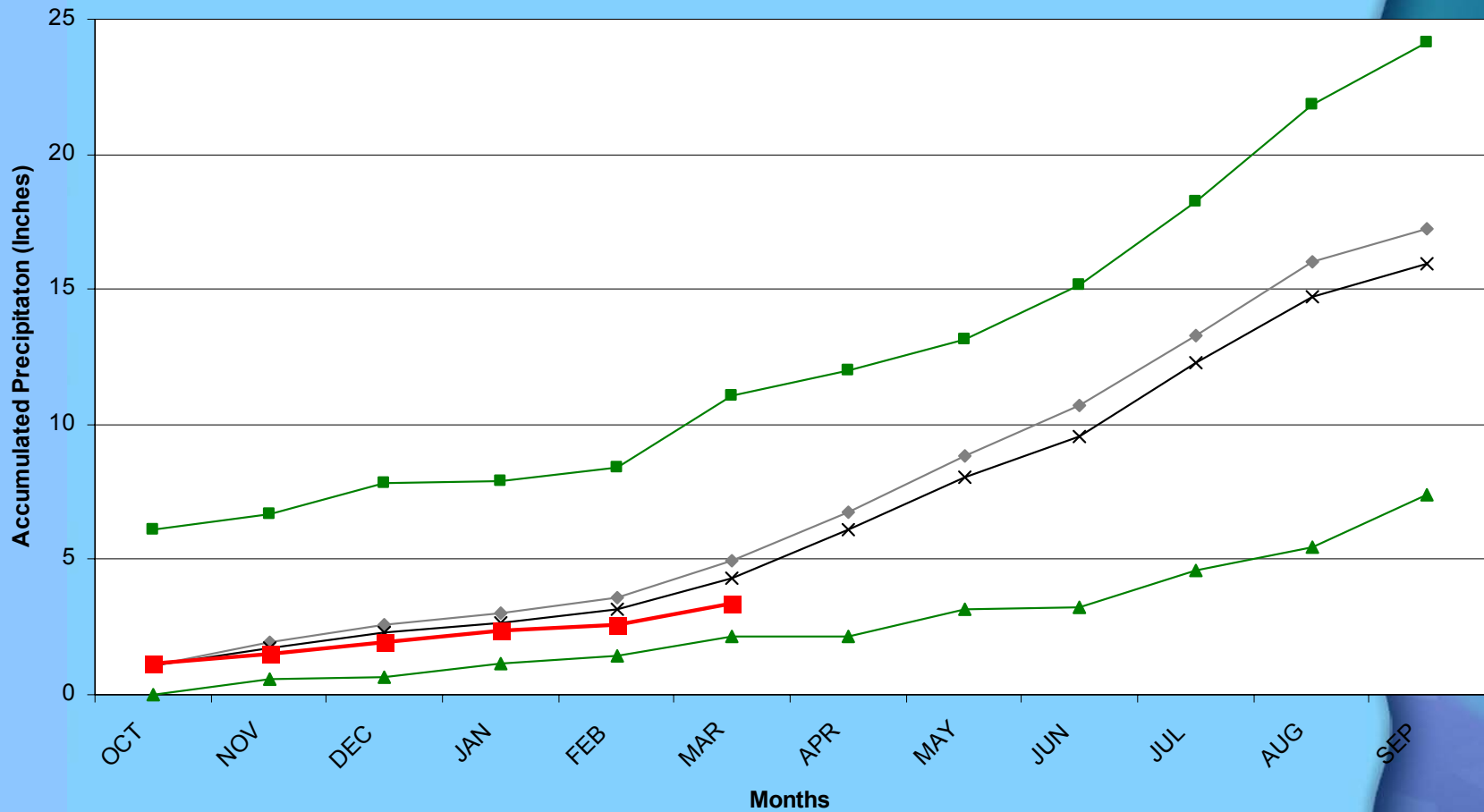
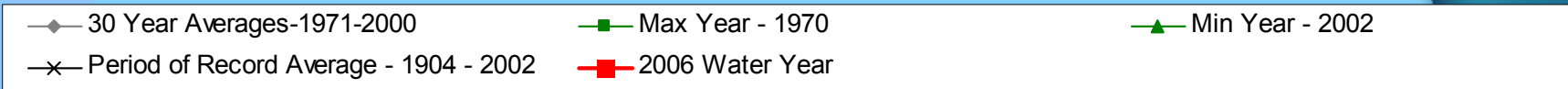
Division 8 – Boulder

Boulder 2006 Water Year



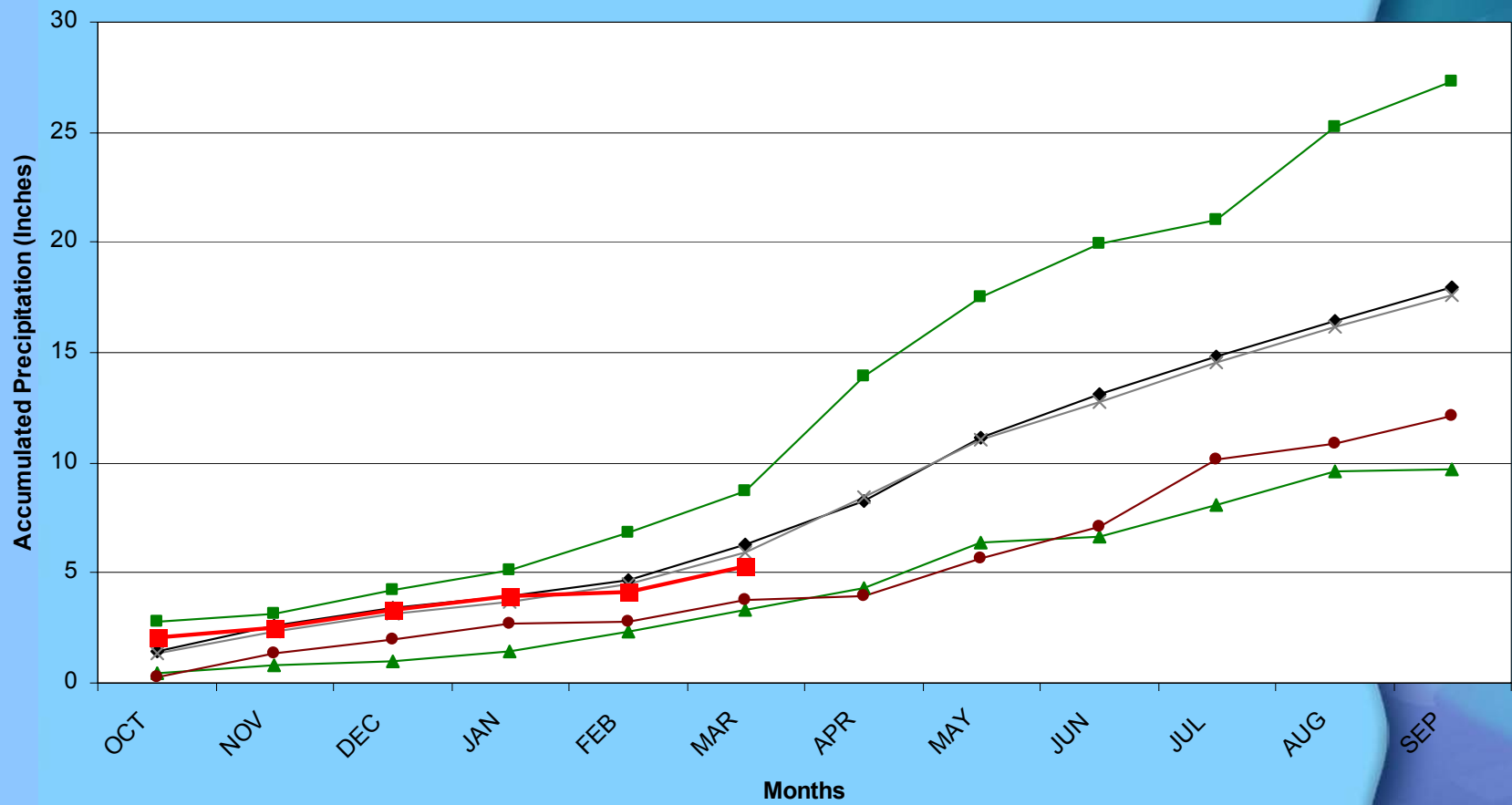
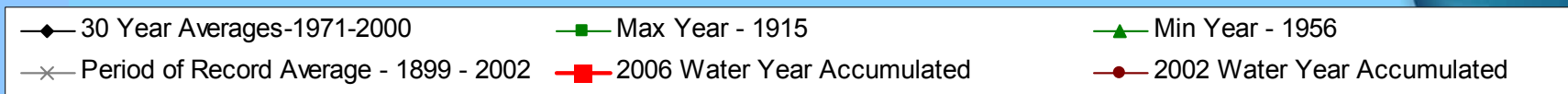
Division 8 – Cheesman

Cheesman 2006 Water Year



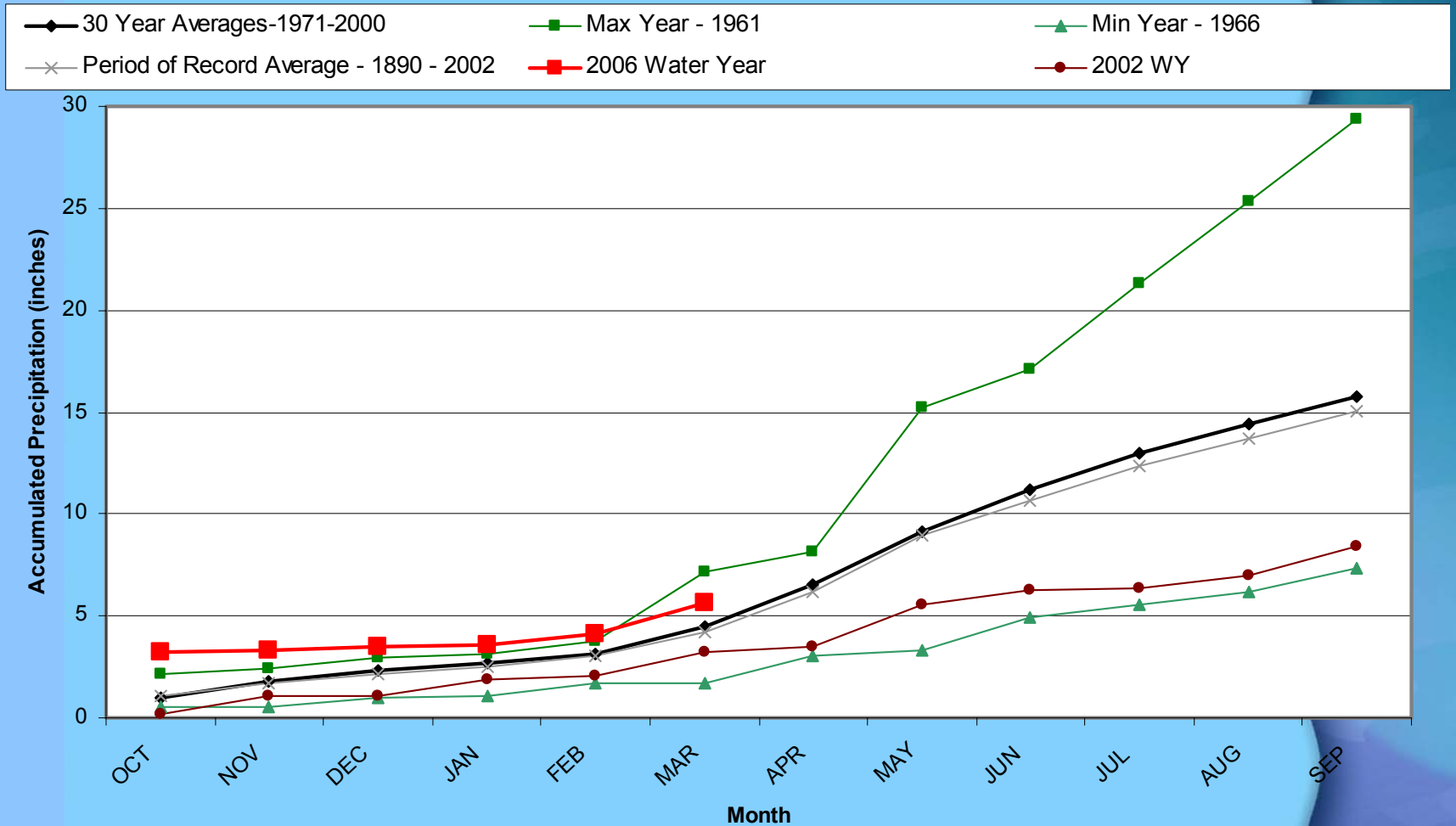
Division 8 – Kassler

Kassler 2006 Water Year

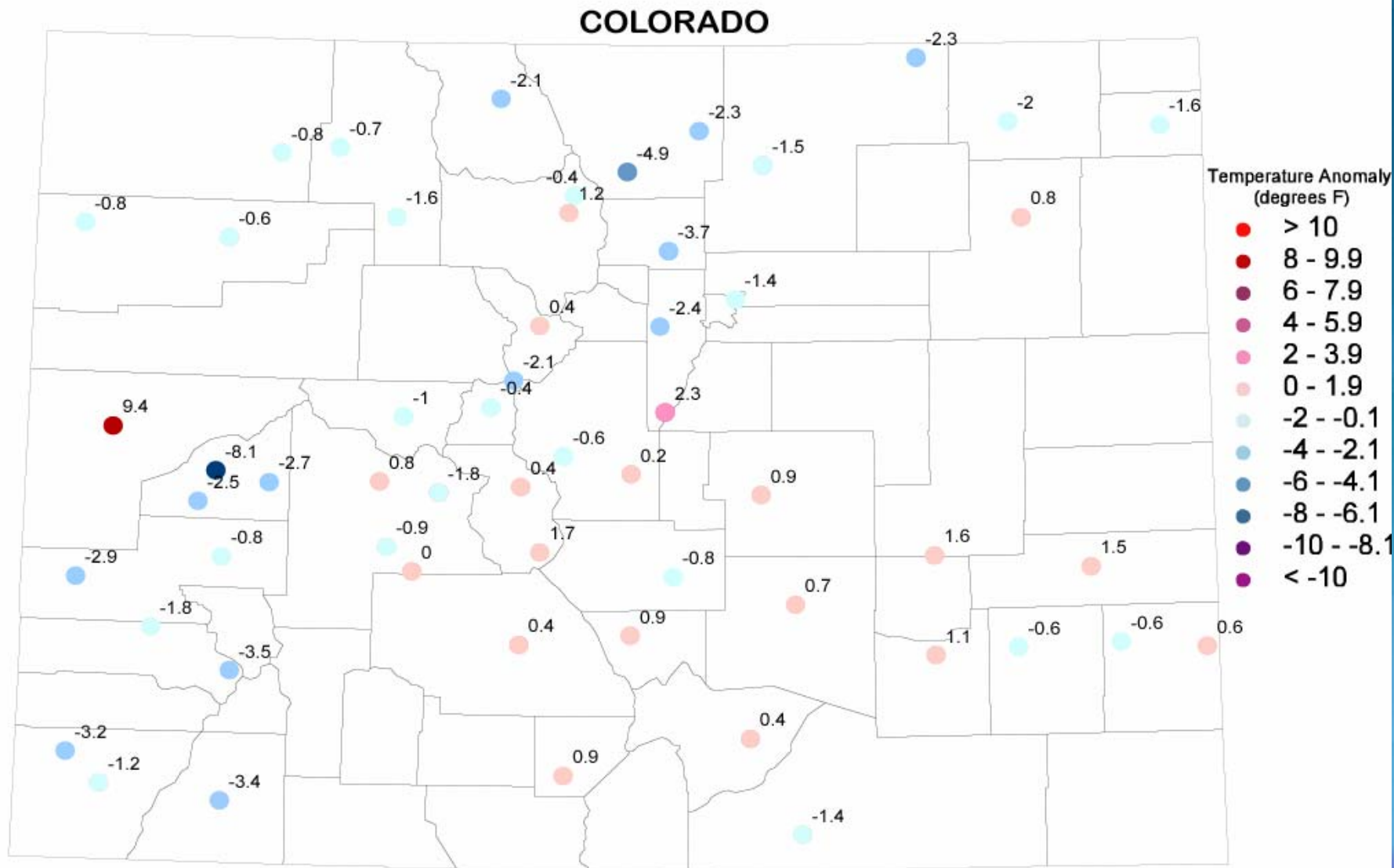


Division 8 – Fort Collins

Fort Collins 2006 Water Year

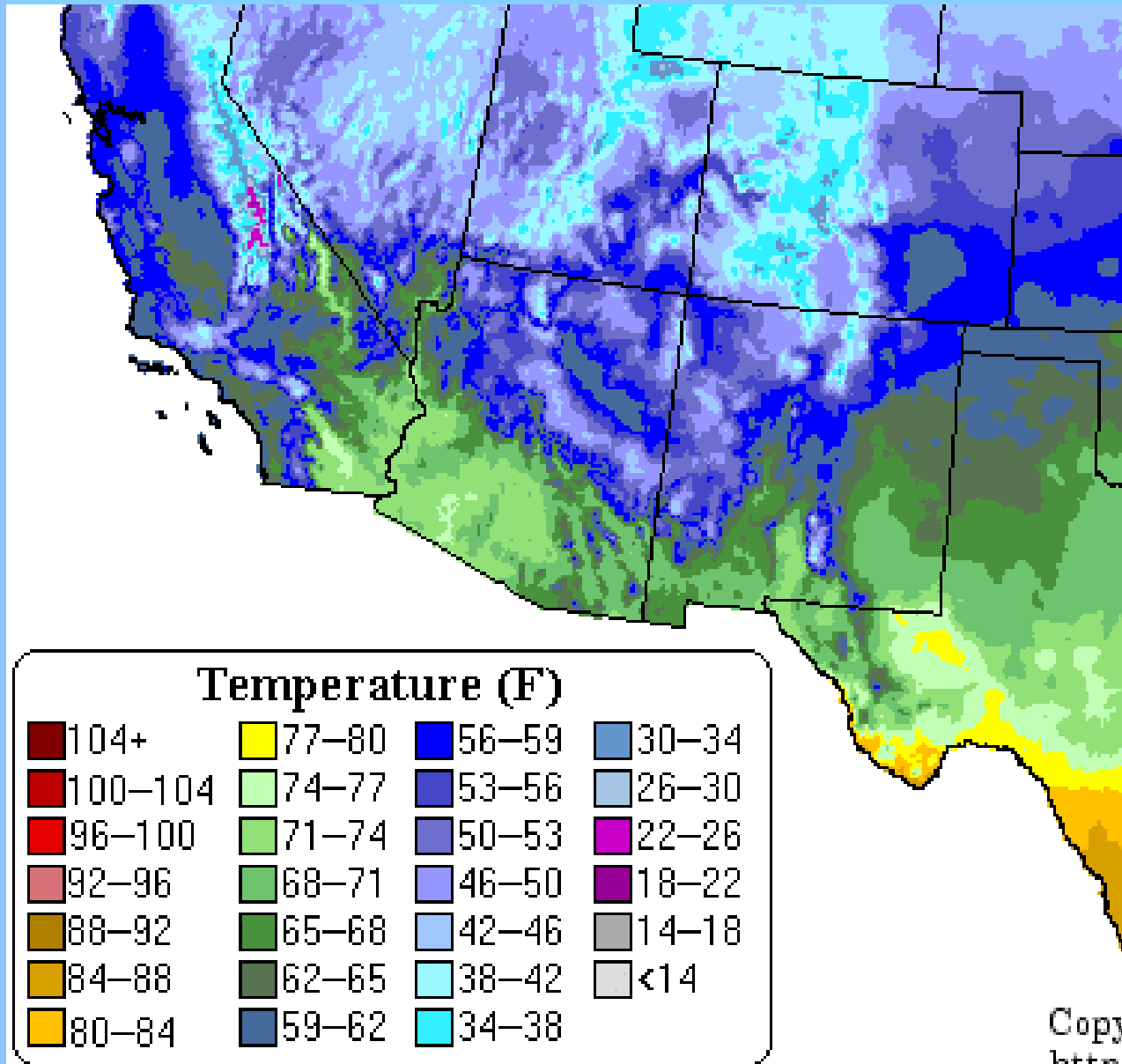


March 2006 maximum temperature departures

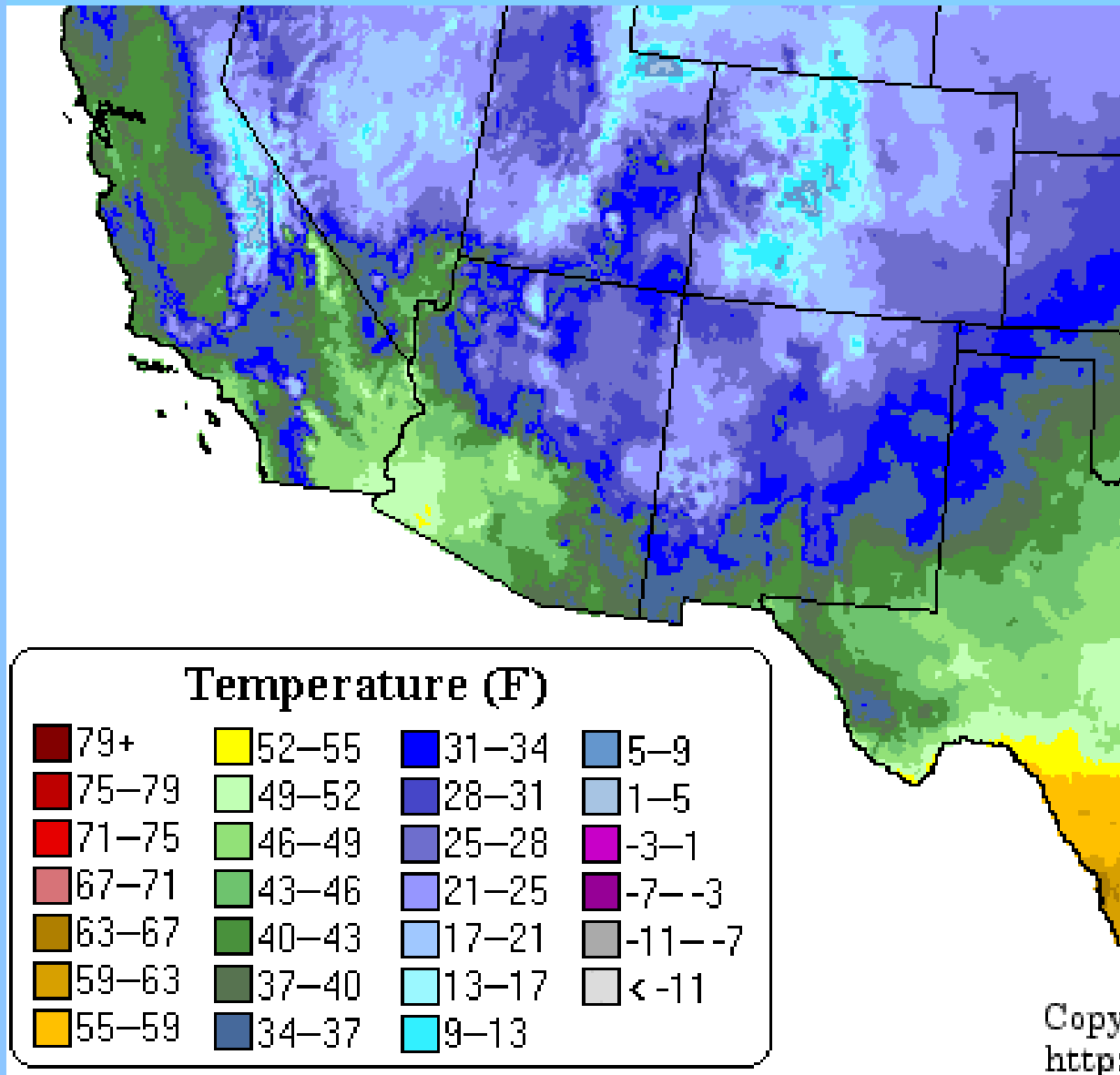


March 2006 average maximum temperature departures from the 1971-2000 averages.

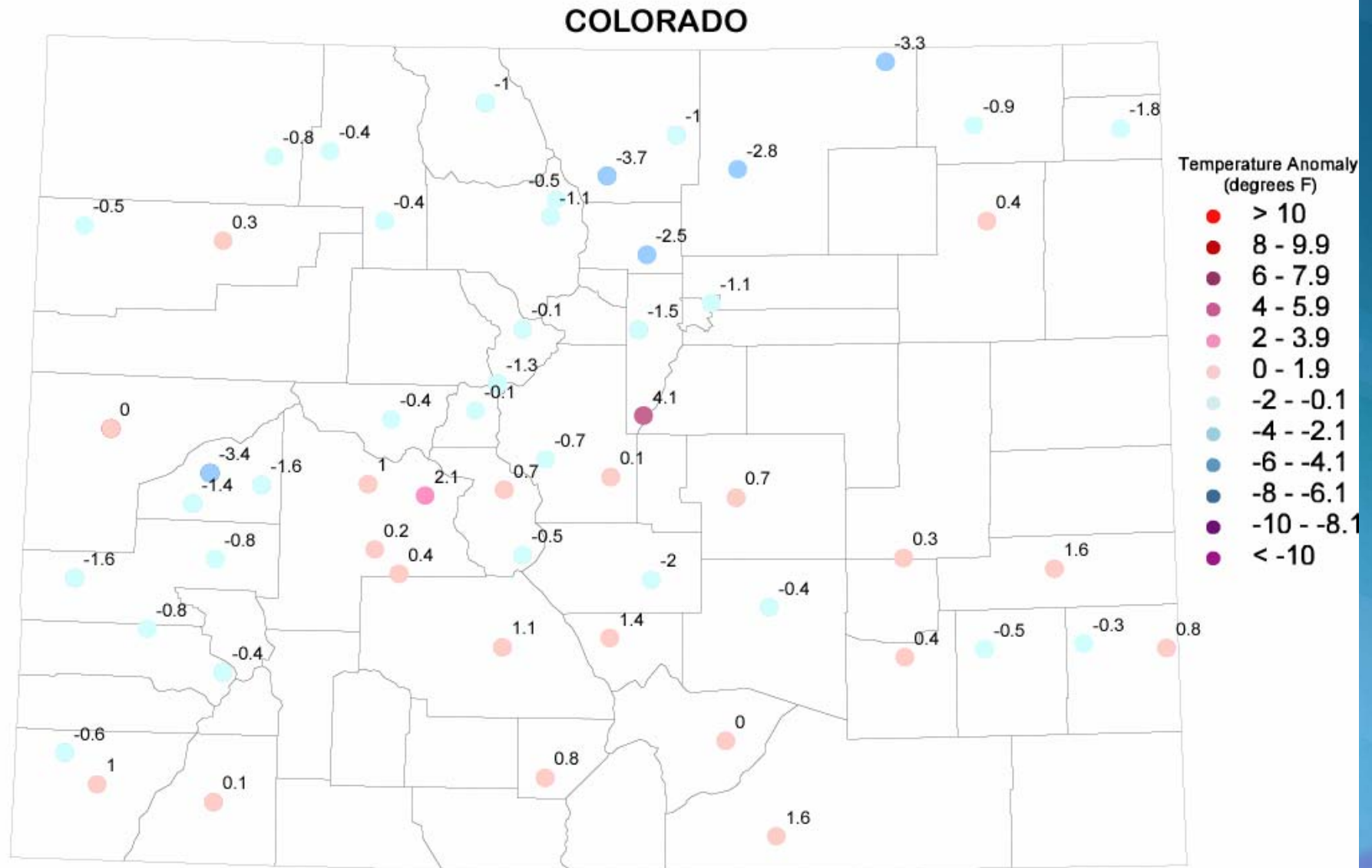
March 2006 Maximum Temperature



March 2006 Minimum Temperature

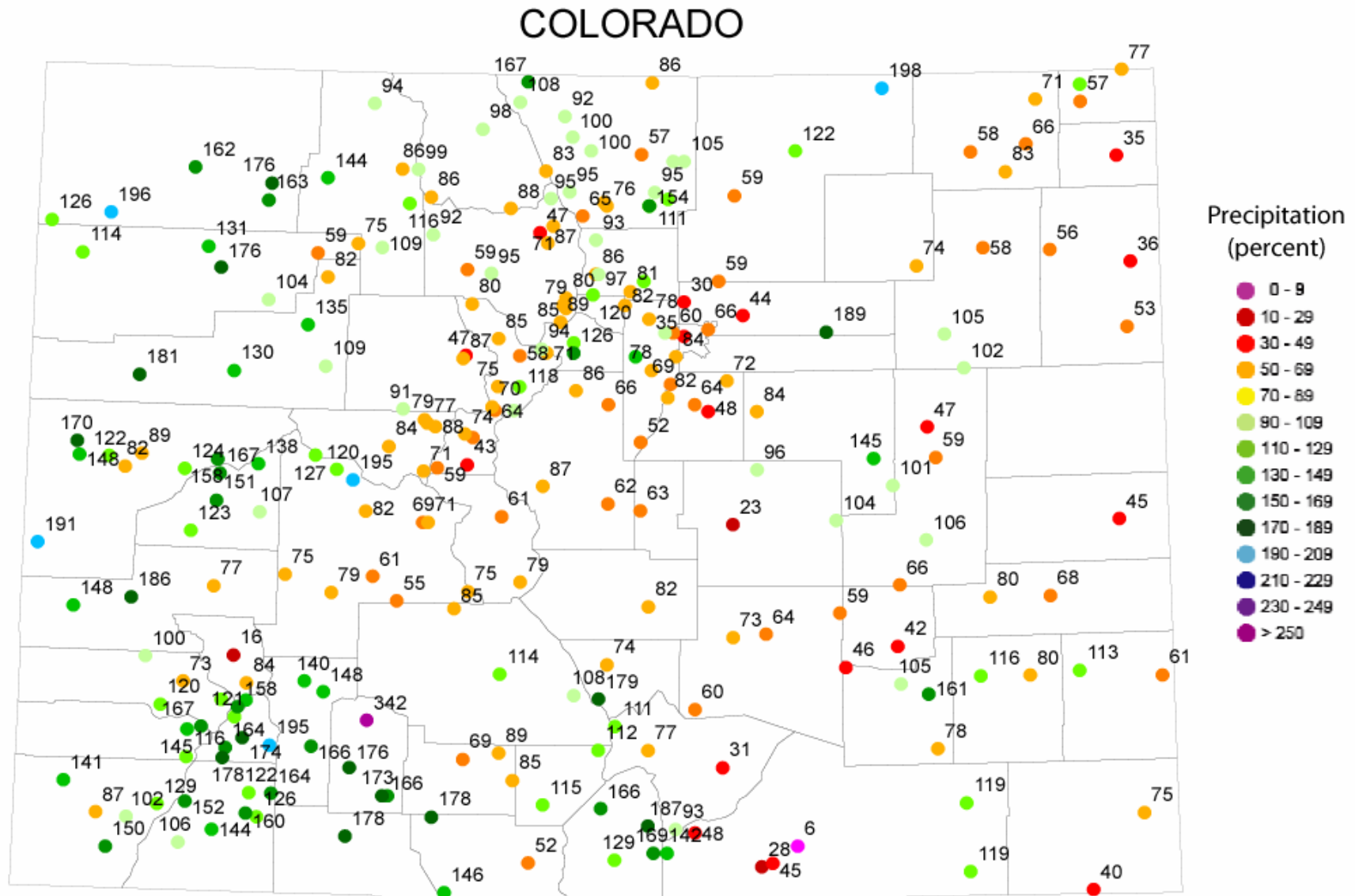


March 2006 Average Temperatures departures



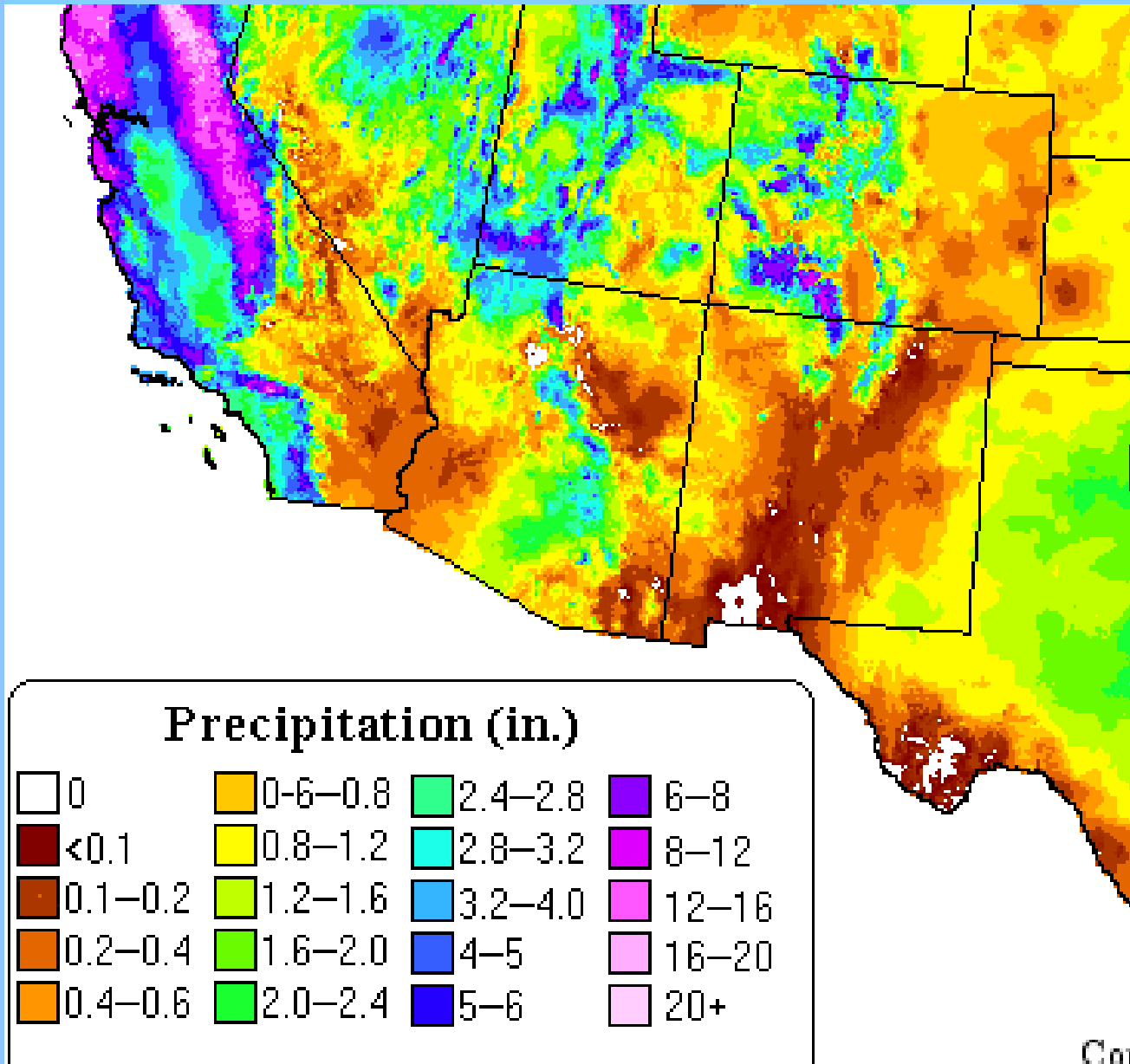
March 2006 average temperature departures from the 1971-2000 averages.

March 2006 precipitation % average



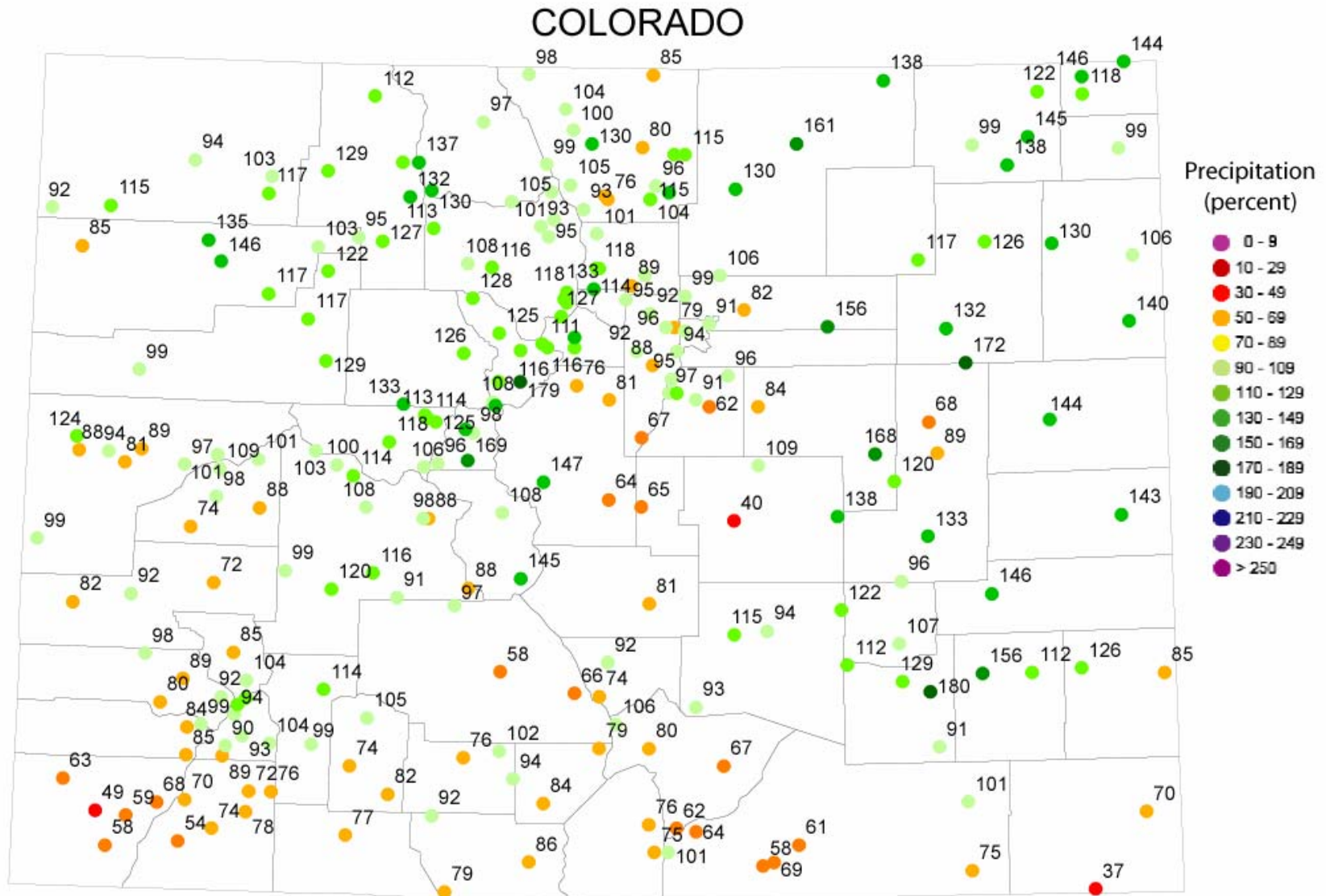
March 2006 precipitation as a percent of the 1971-2000 average.

March 2006 precipitation



<http://www.ocs.oregonstate.edu/prism>

WY 2006 precipitation % average

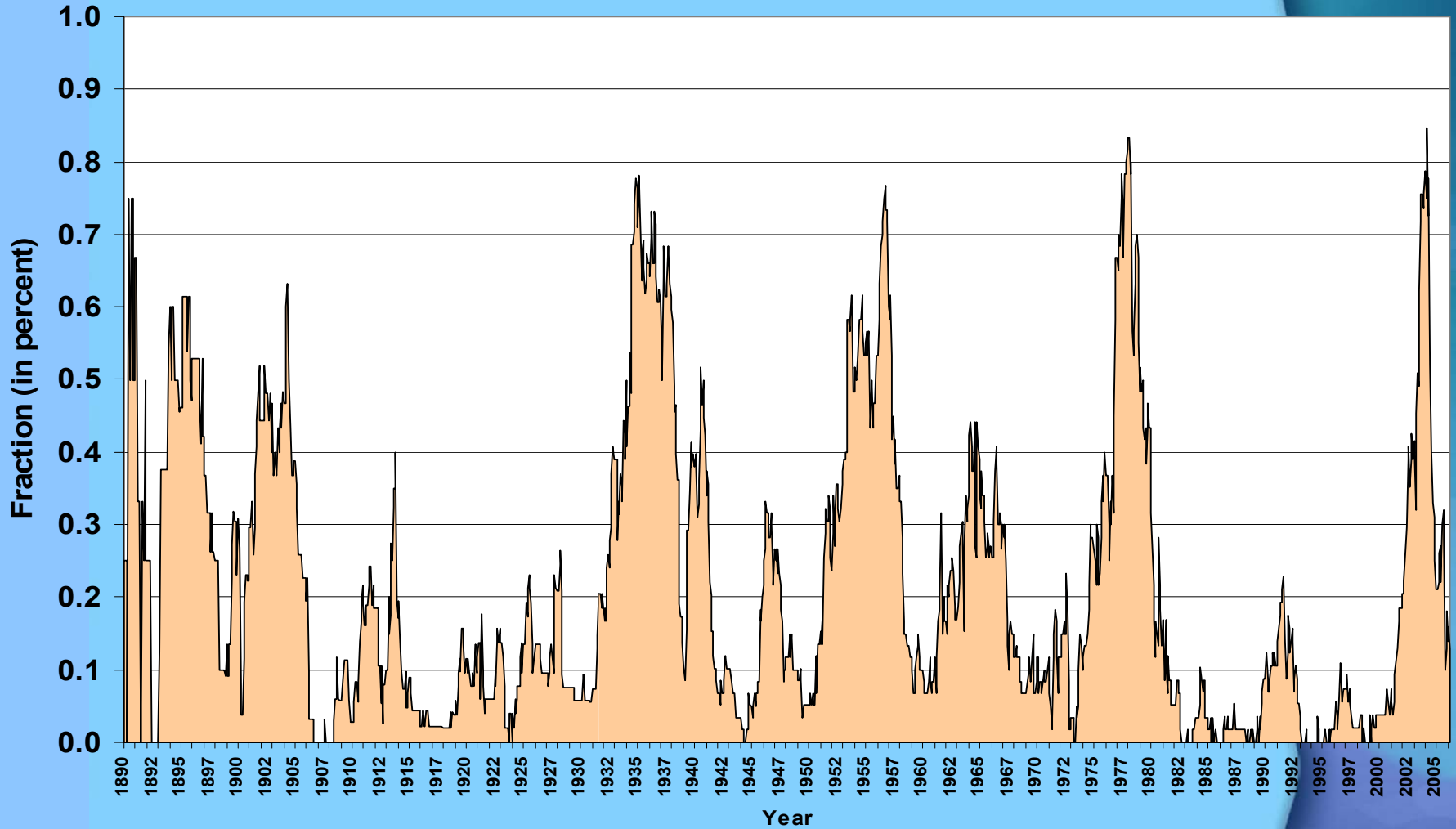


Water Year 2006 (October 2005 through March 2006) precipitation as a percent of the 1971-2000 average.

Fraction of Colorado in Drought

Based on 48 month SPI

(1890 - March 2006)

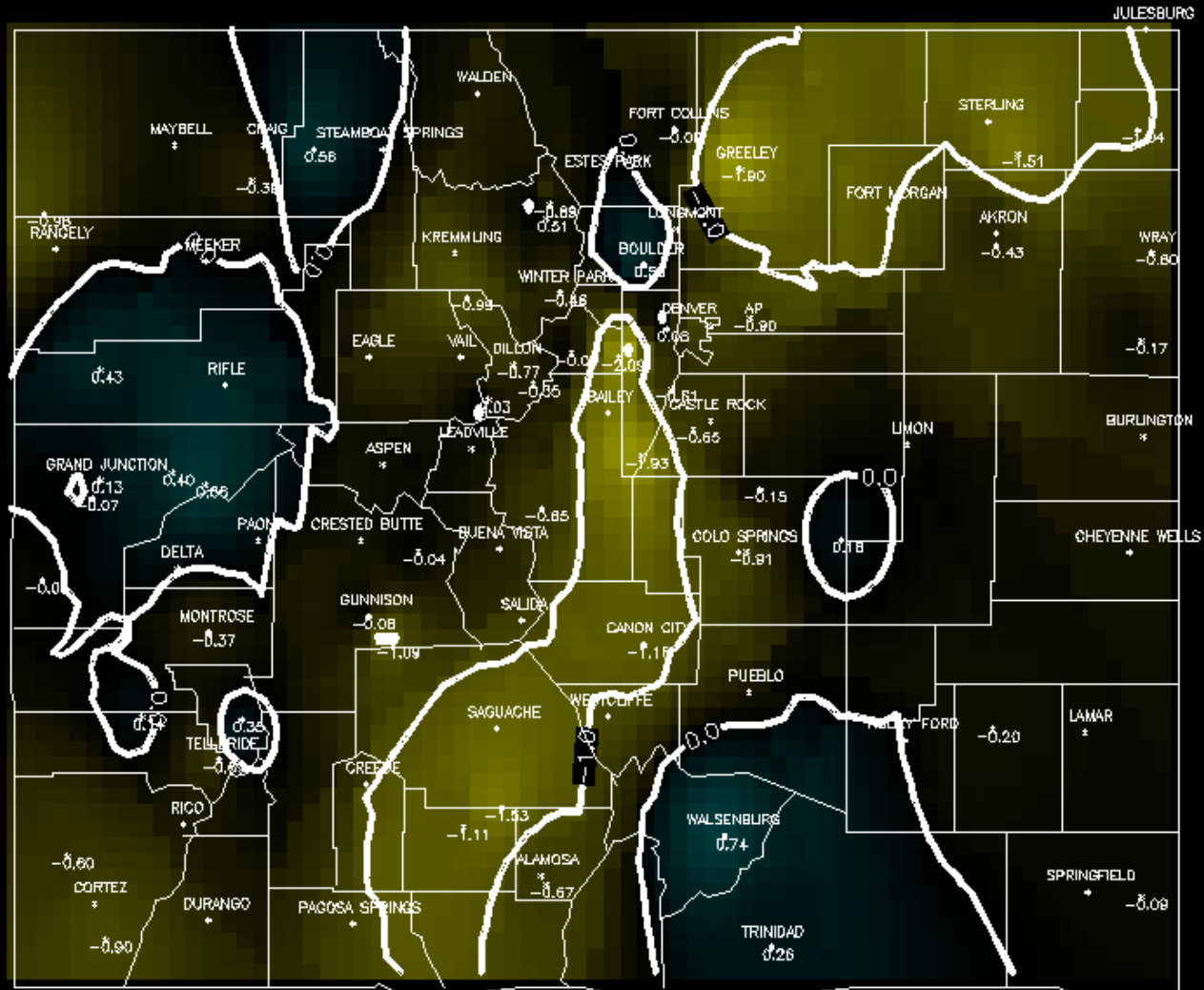


Projected Conditions at 0.2 Probability Level

48 Month SPI at 12 months

Colorado

3/2006 48 mon. SPI – Projected 12 mon. at P=0.20



100 % < 2.0
 100 % < 1.0
 80 % < 0.0
 14 % < -1.0
 0 % < -2.0
 0 % < -3.0

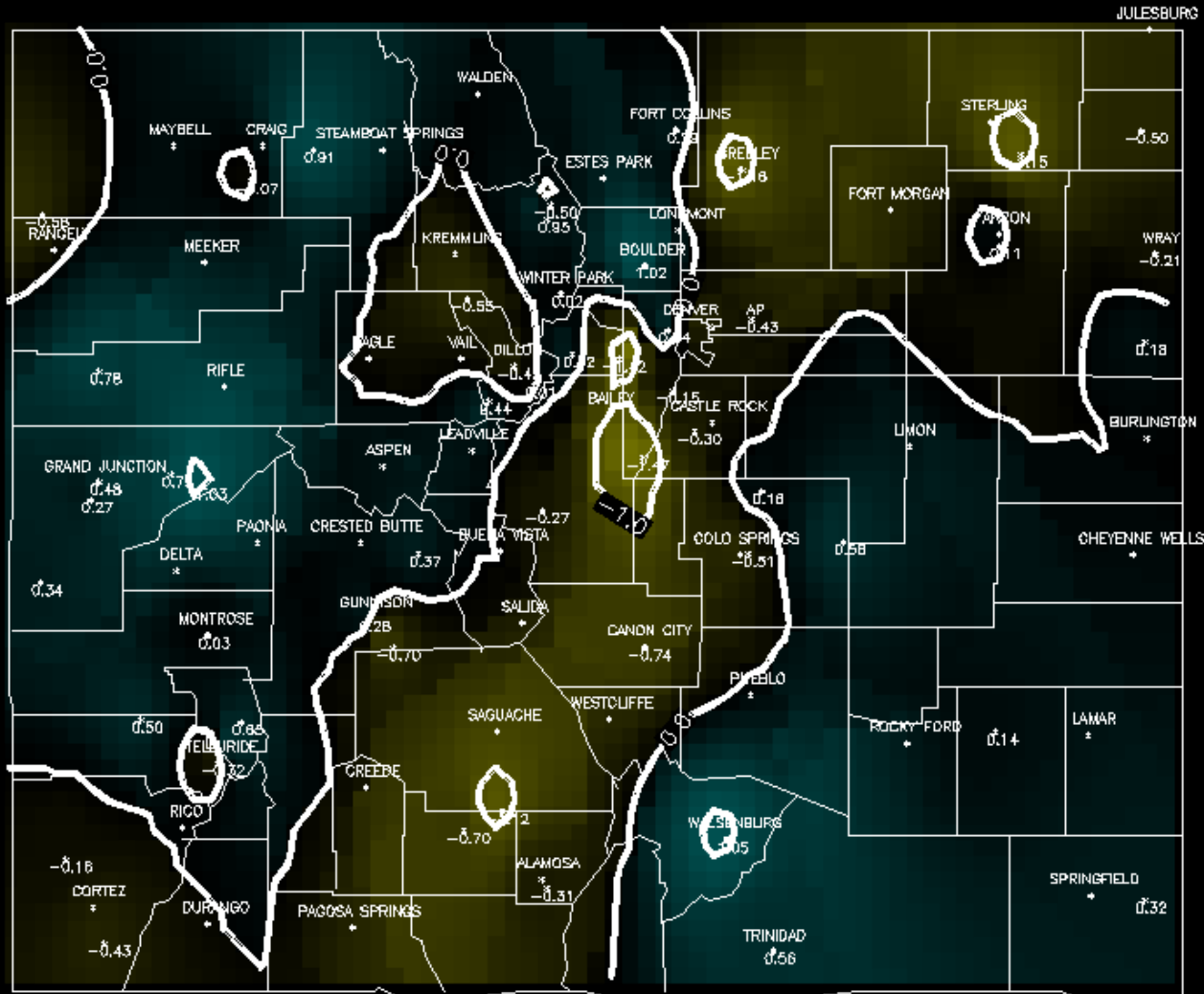
Produced by:
 Colorado Climate Center
 Fort Collins, CO

Projected Conditions at 0.5 Probability Level

48 Month SPI at 12 months

Colorado

3/2006 48 mon. SPI – Projected 12 mon. at P=0.50



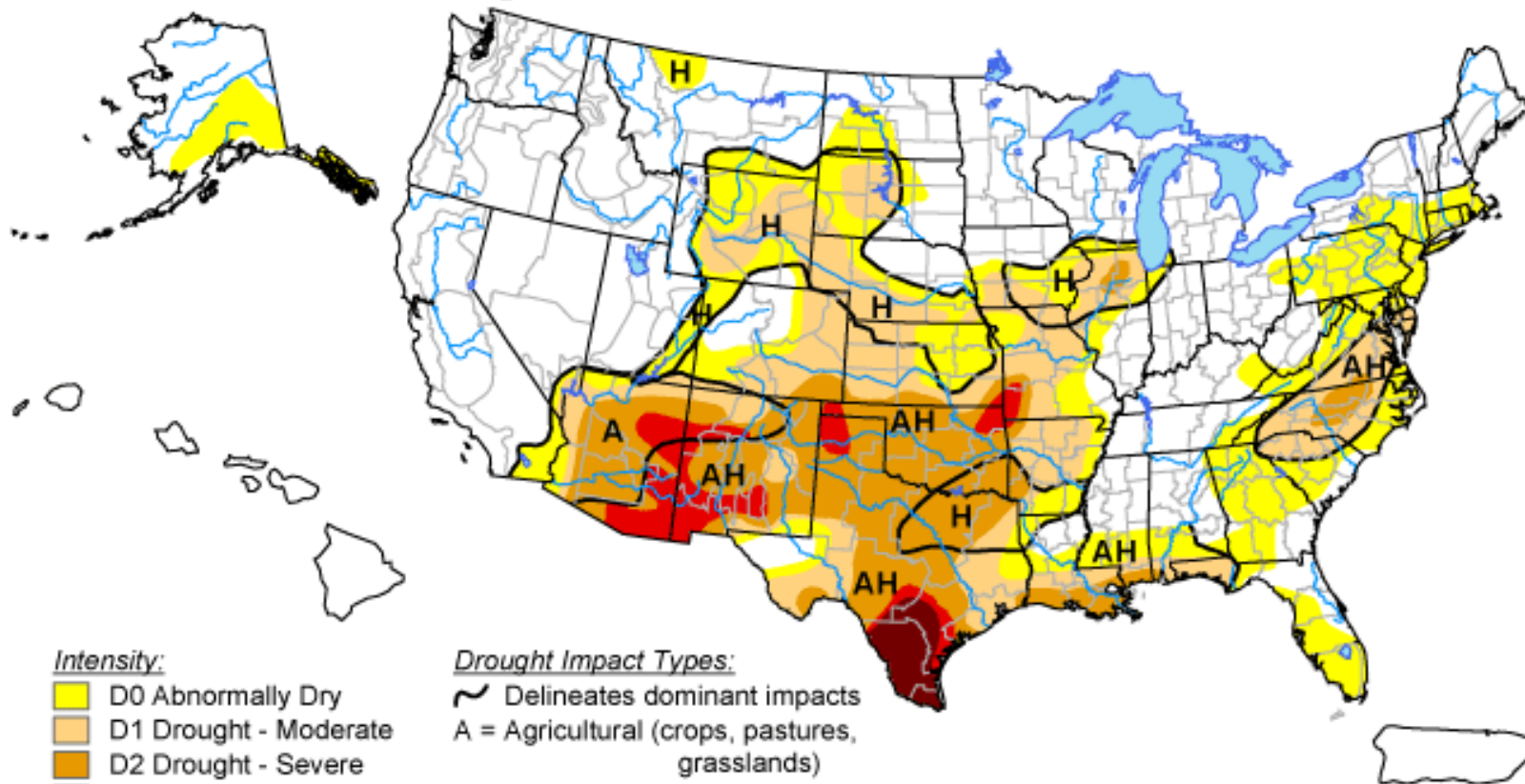
100 % < 2.0	1 % < -1.0
100 % < 1.0	0 % < -2.0
41 % < 0.0	0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO






Drought Monitor Map

U.S. Drought Monitor


April 11, 2006
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)
- (No type = Both impacts)

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 13, 2006
Author: Rich Tinker, CPC/NCEP/NWS/NOAA

Colorado Climate Center

Colorado State University

Data and Power Point Presentations available for downloading

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

- click on "Drought"
- then click on "Presentations"

