

Climate Update

March 2006 Meeting

Nolan Doesken
Colorado Climate Center

**presented at the Joint Meeting of the Flood Task Force &
Water Availability Task Force,
NRCS, Denver, CO, March 14, 2006**

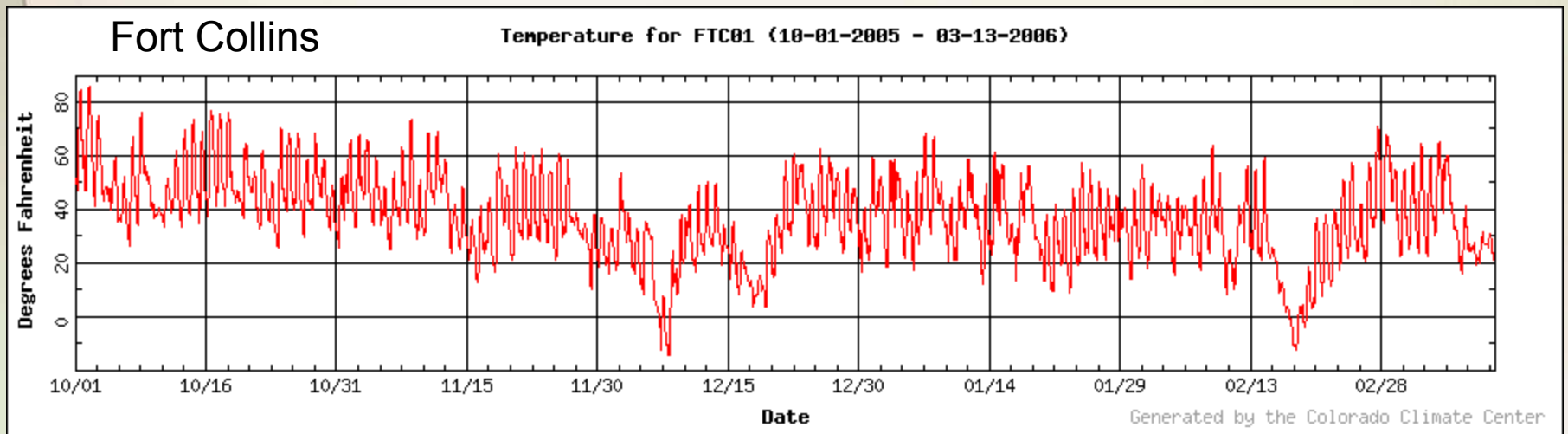
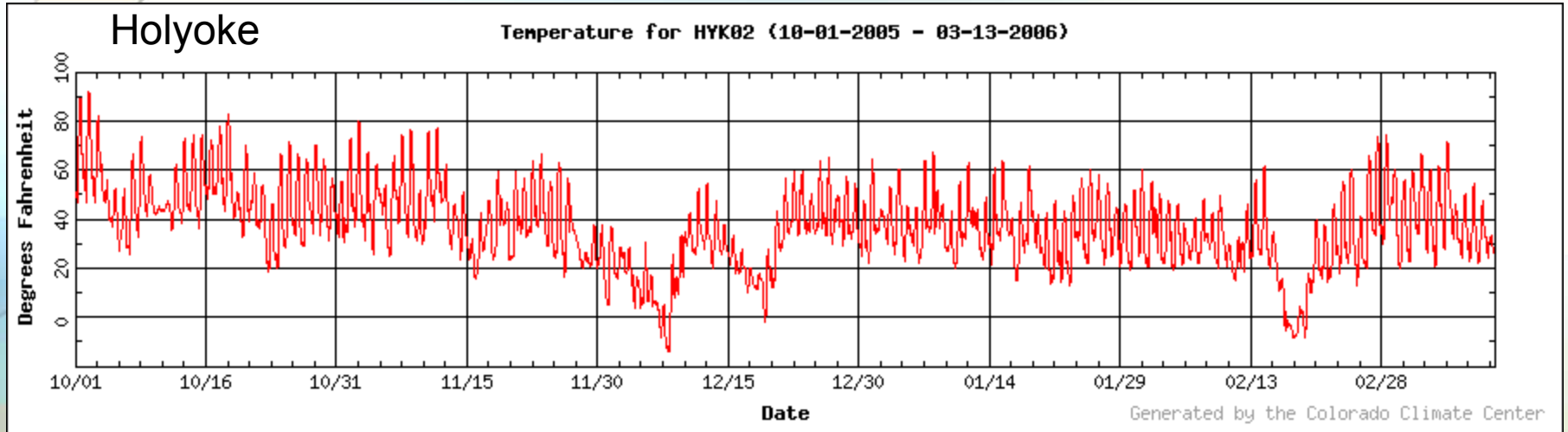


Prepared by Odie Bliss

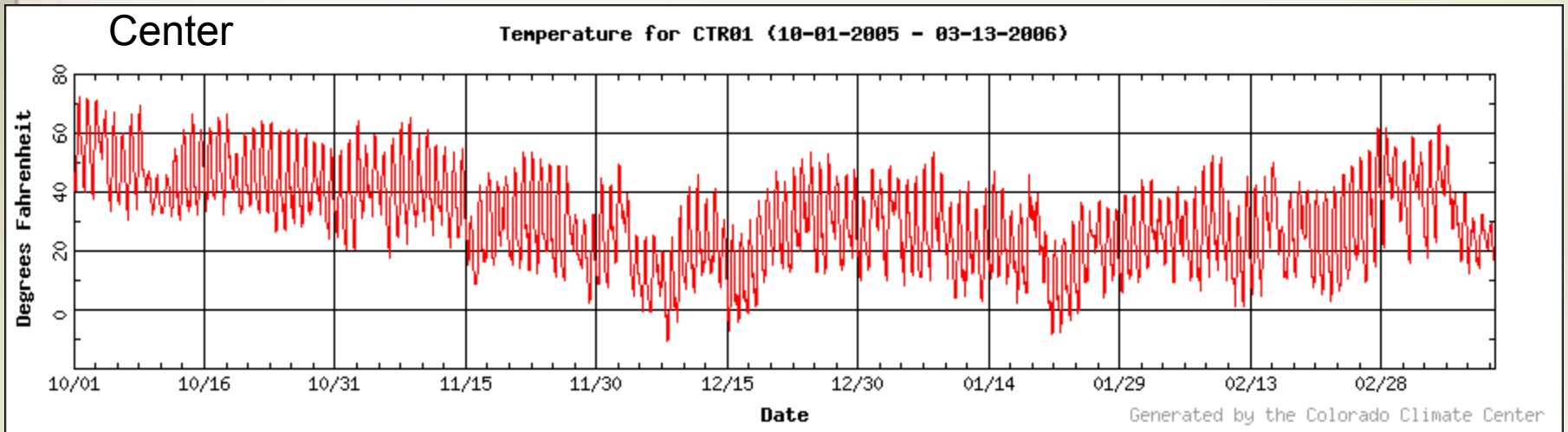
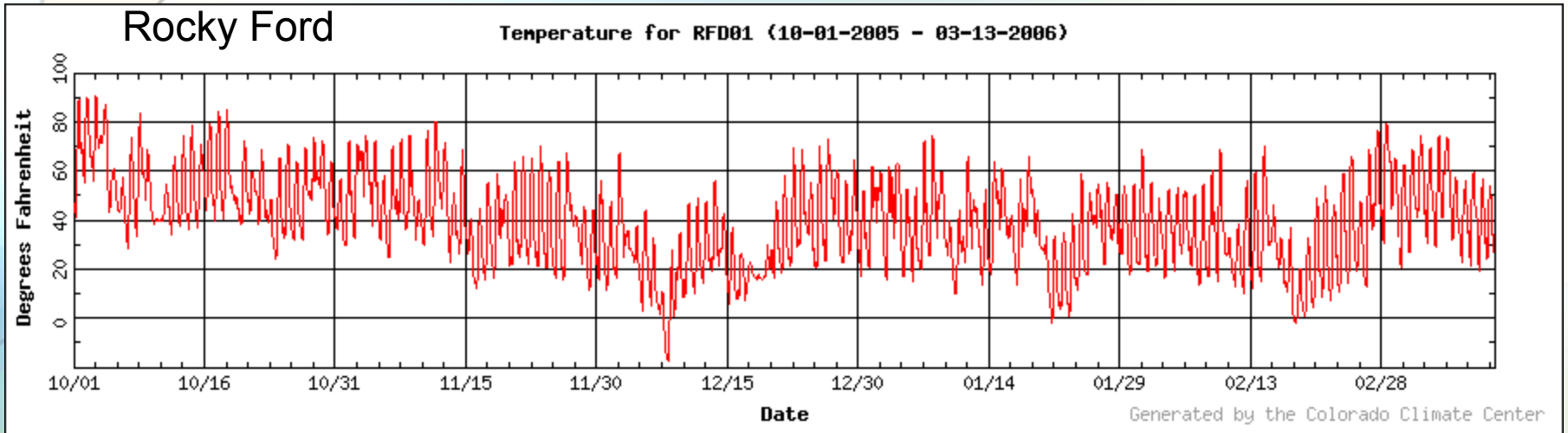
<http://ccc.atmos.colostate.edu>



Daily Temperatures



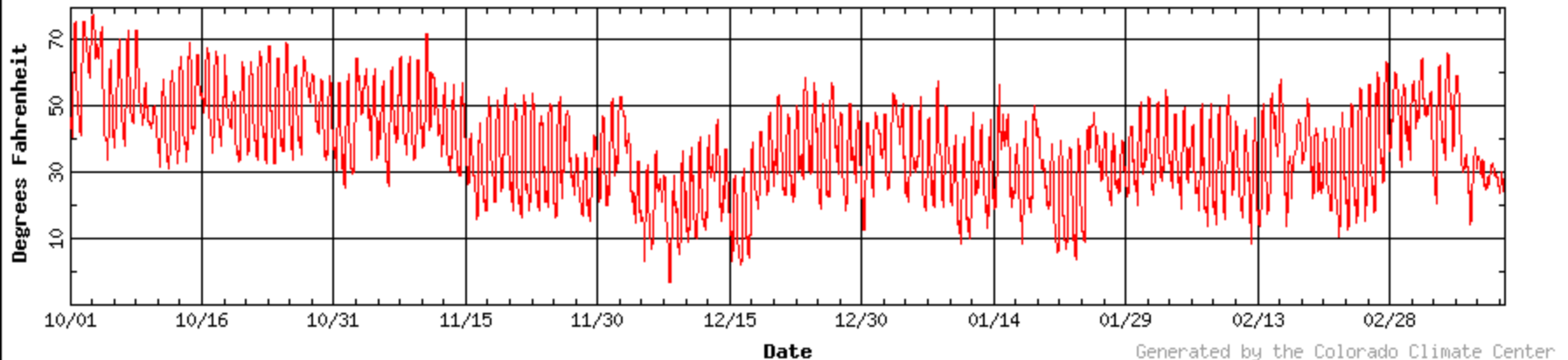
Daily Temperatures



Daily Temperatures

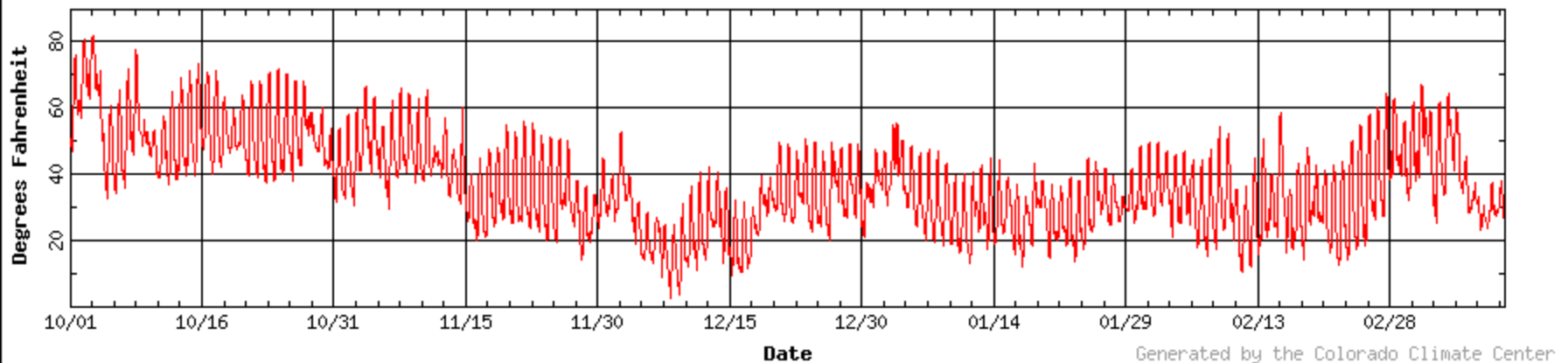
Cortez

Temperature for CTZ01 (10-01-2005 - 03-13-2006)



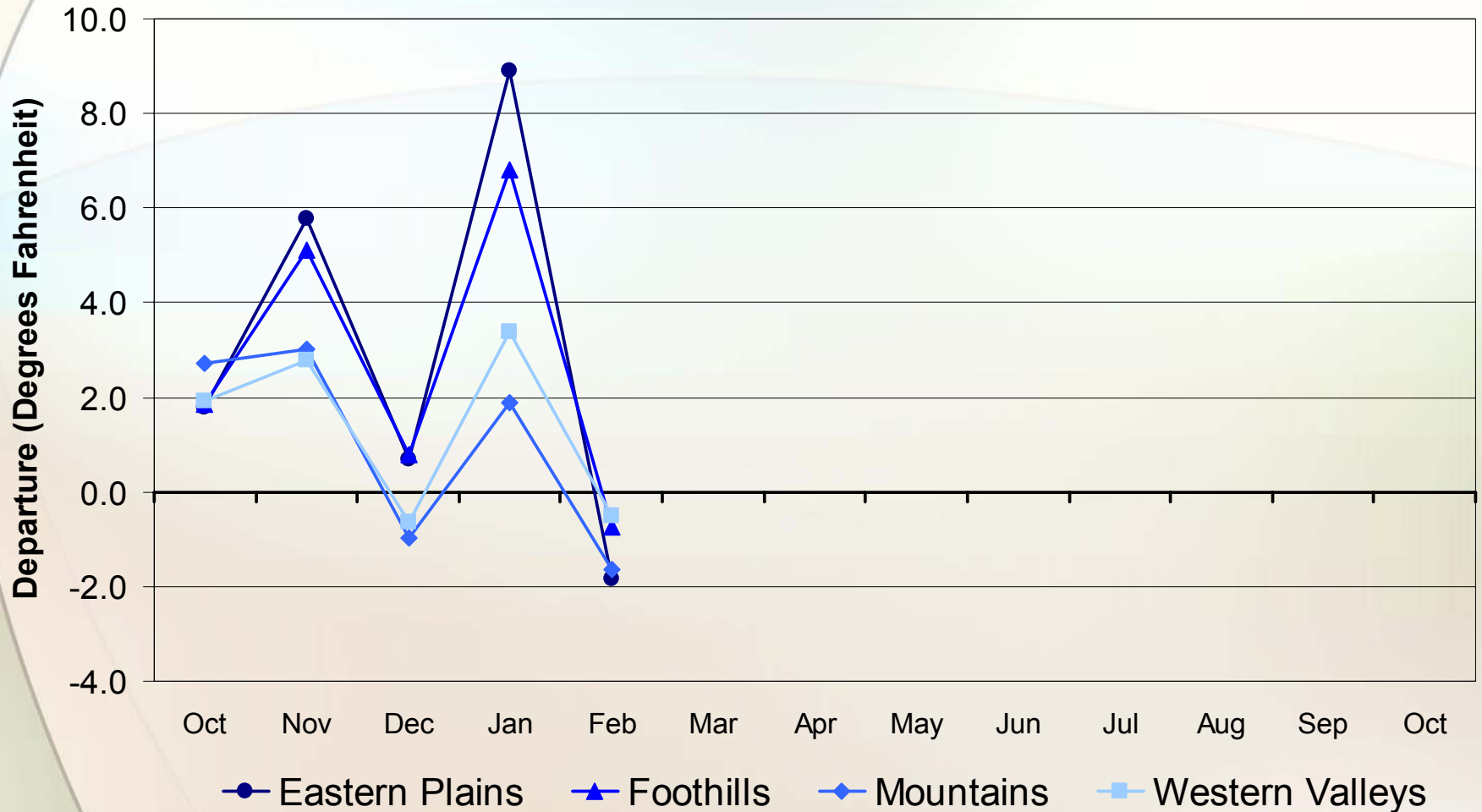
Grand Junction

Temperature for GJC01 (10-01-2005 - 03-13-2006)

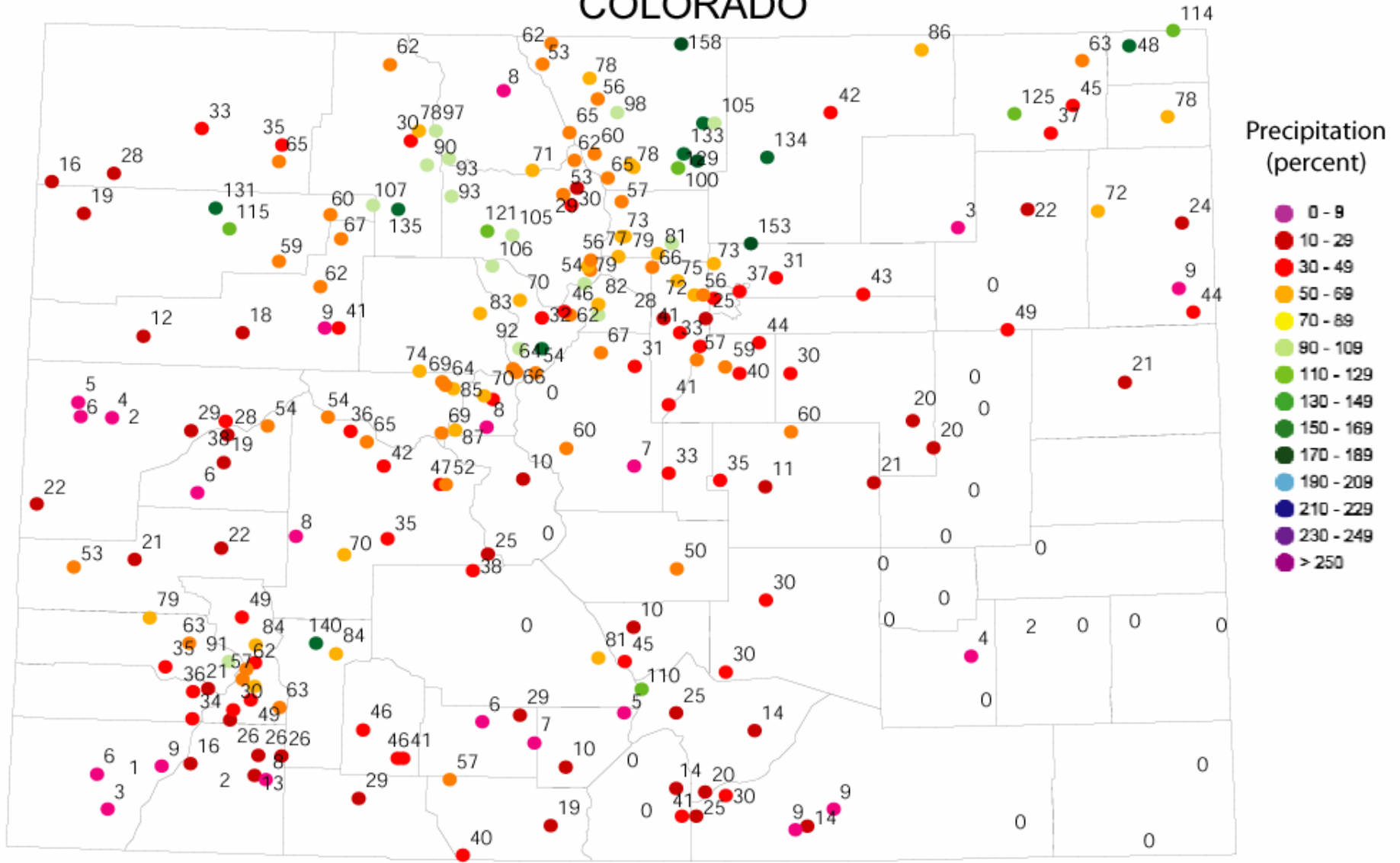


Temperature Departures

Water Year 2006

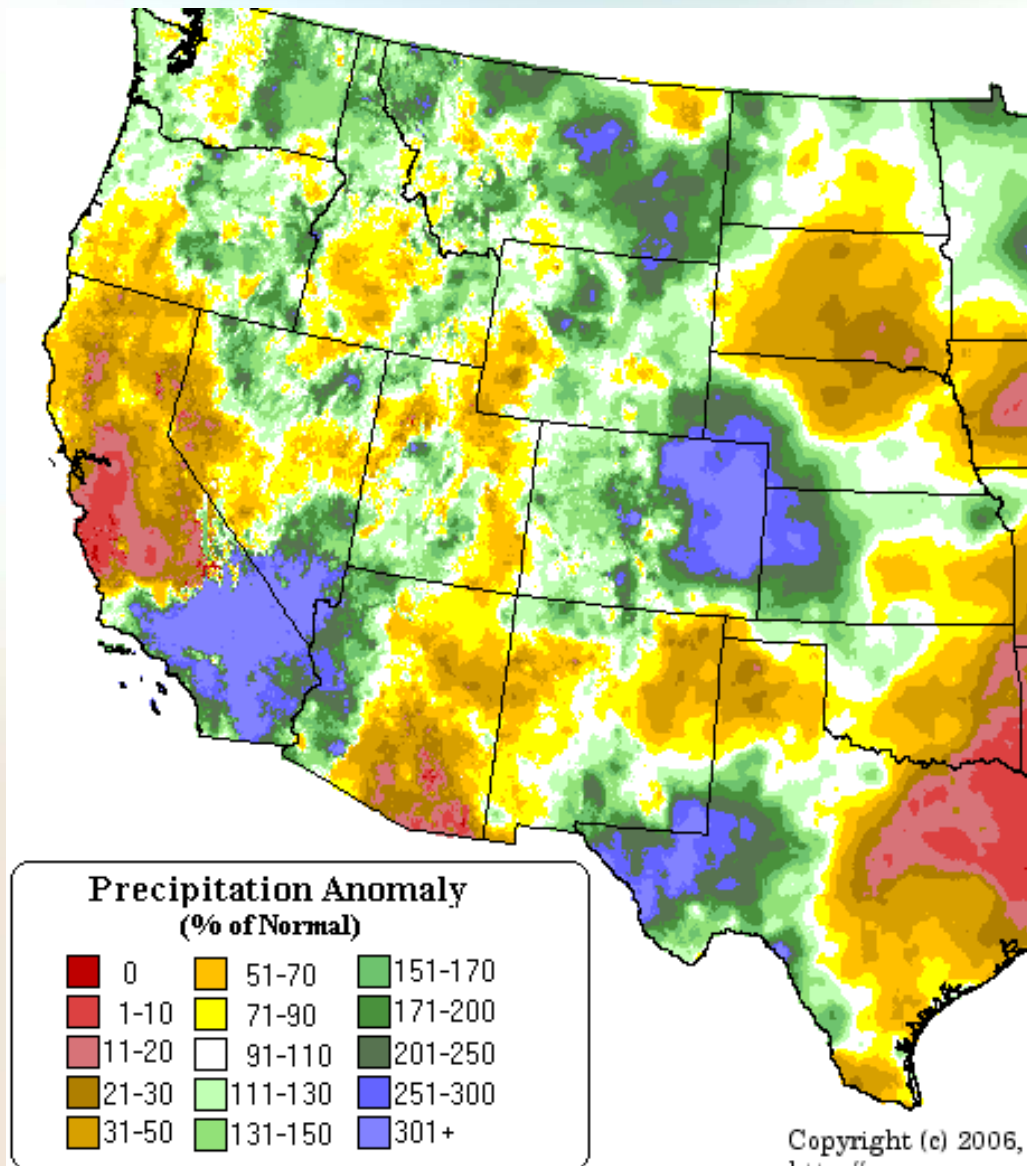


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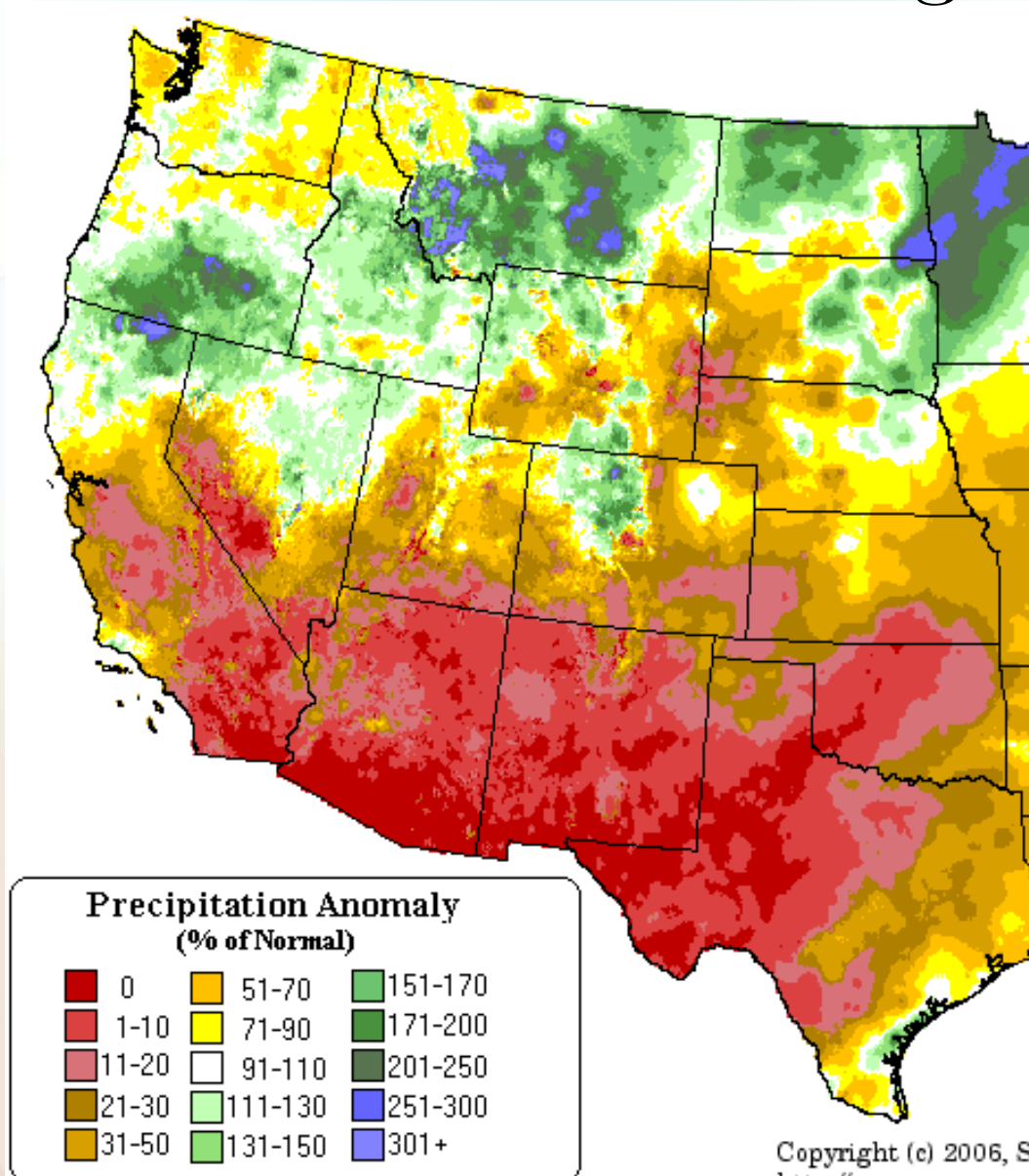


February 2006 precipitation as a percent of the 1971-2000 average.

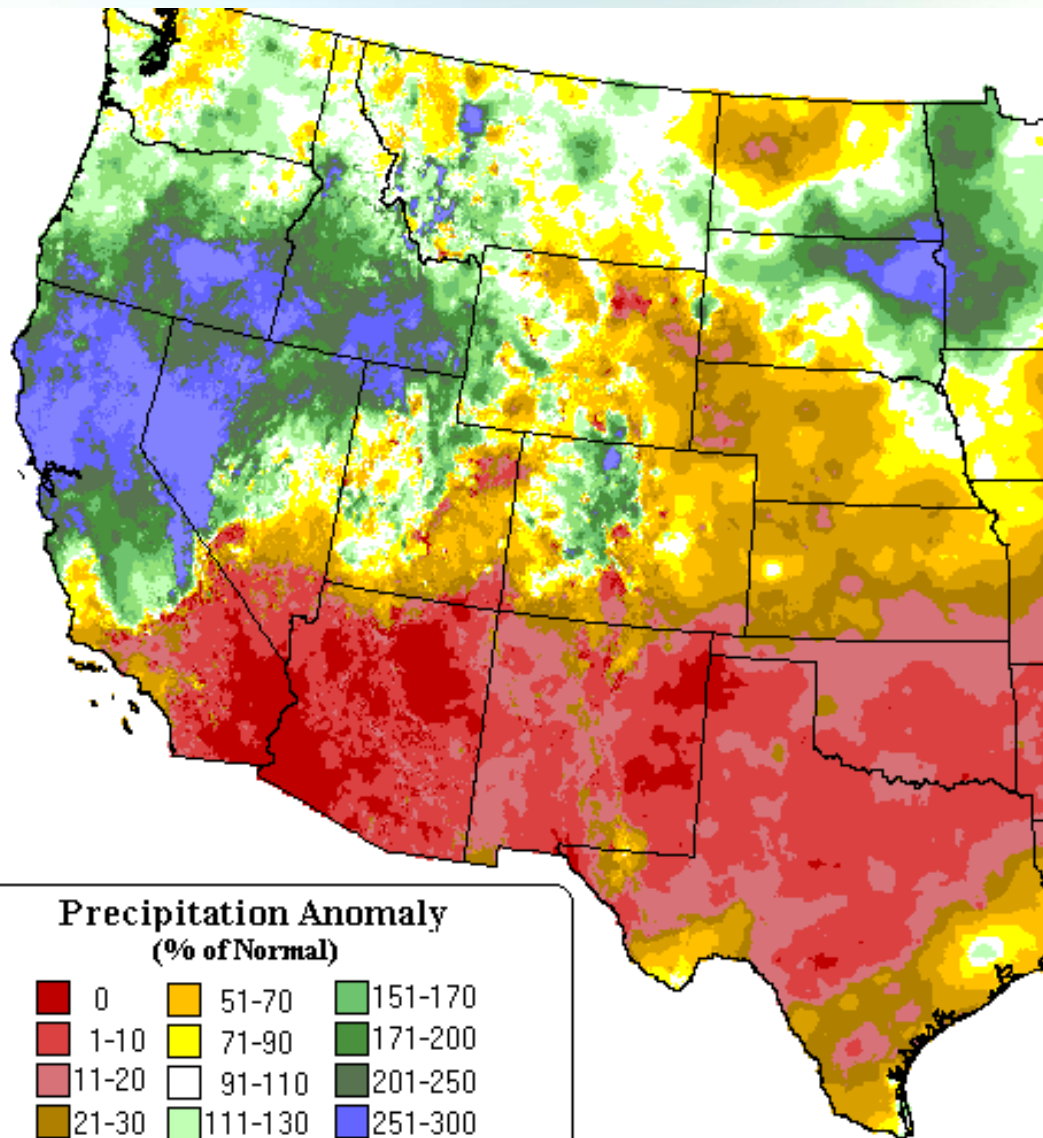
October 2005 Precipitation Percent of 1971-2000 average



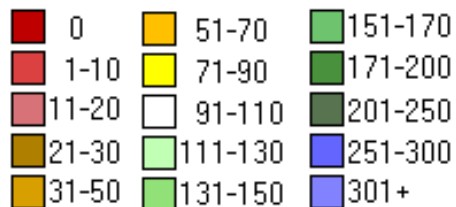
November 2005 Precipitation Percent of 1971-2000 average



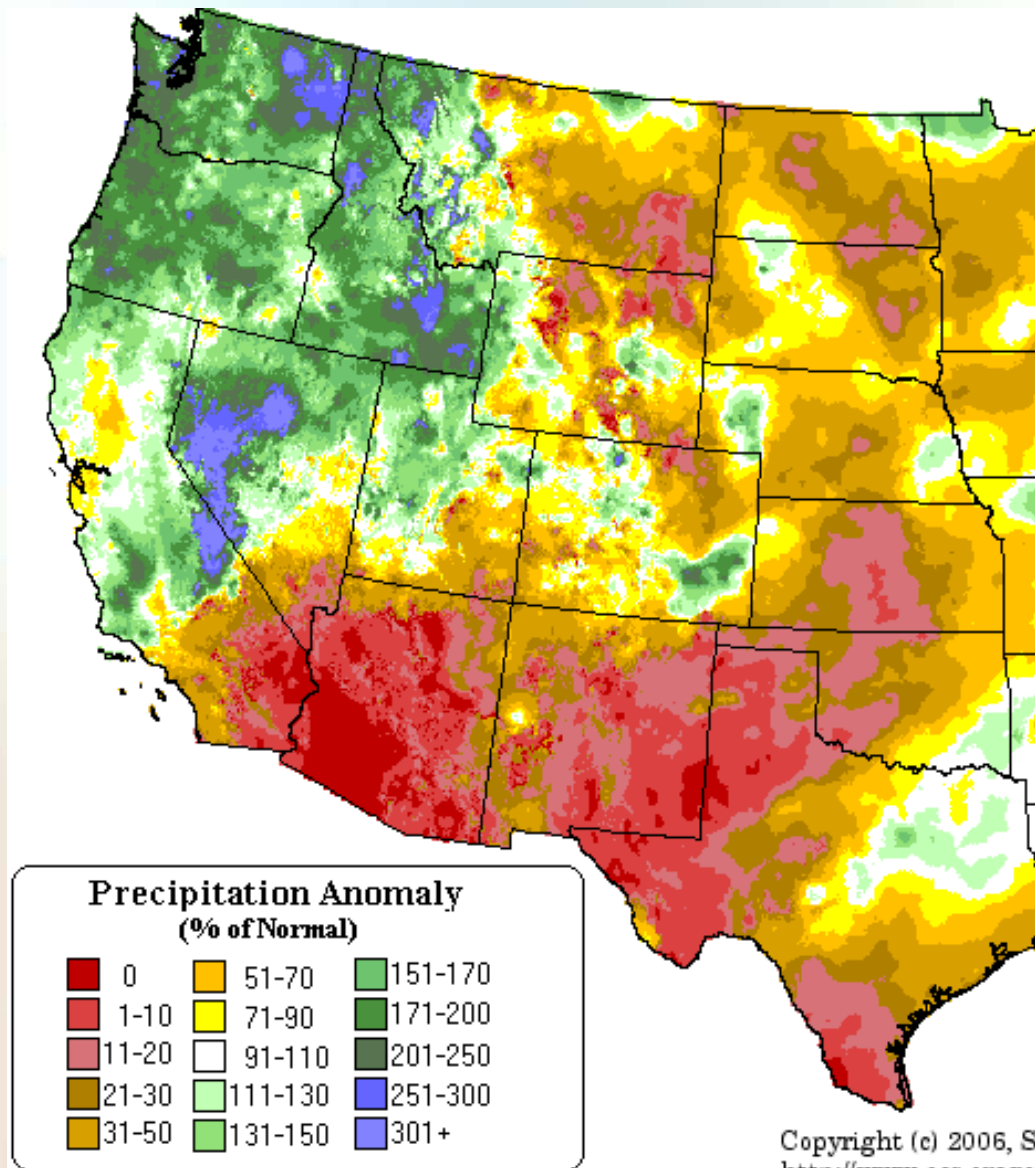
December 2005 Precipitation Percent of 1971-2000 average



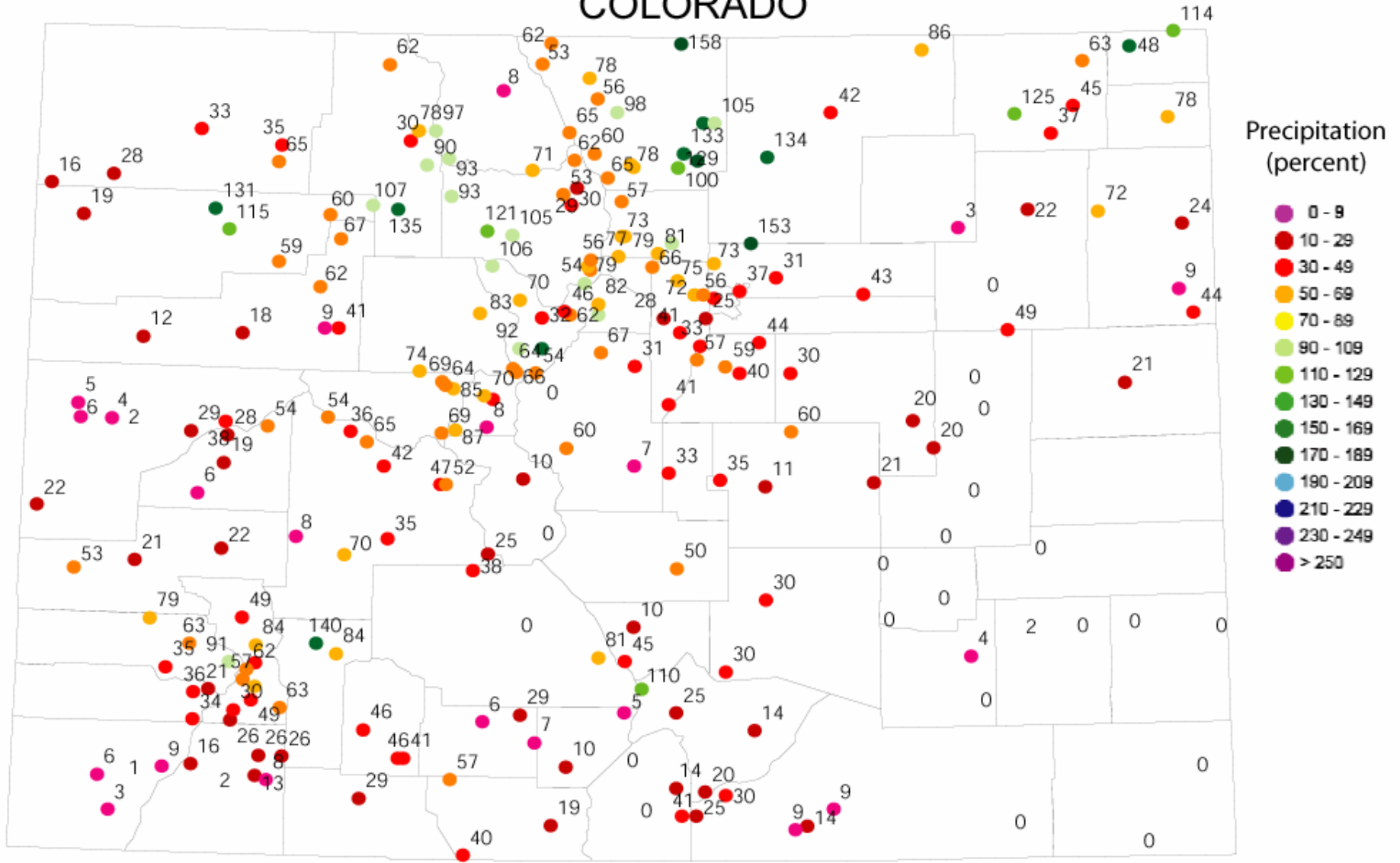
Precipitation Anomaly (% of Normal)



January 2006 Precipitation Percent of 1971-2000 average



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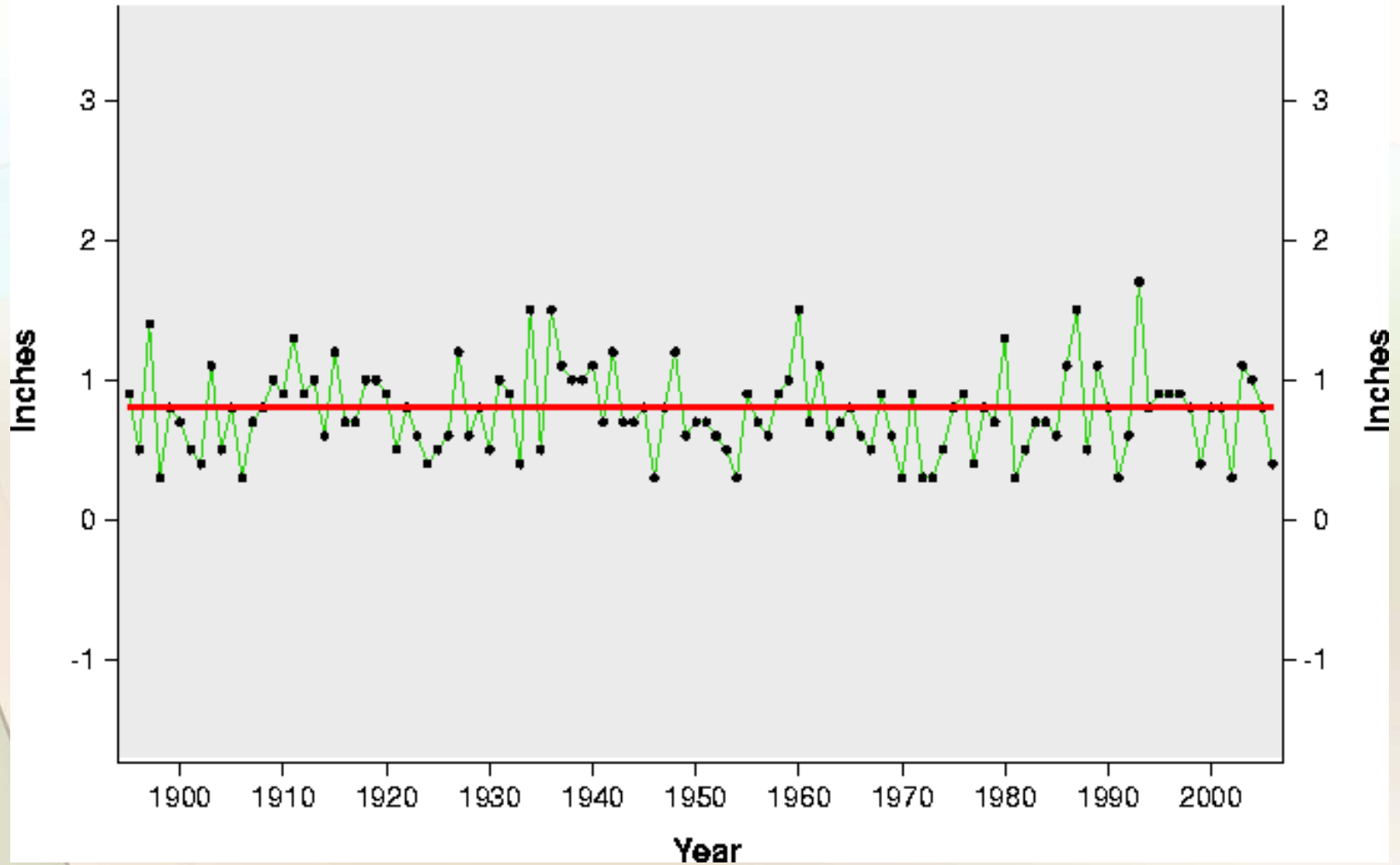


February 2006 precipitation as a percent of the 1971-2000 average.

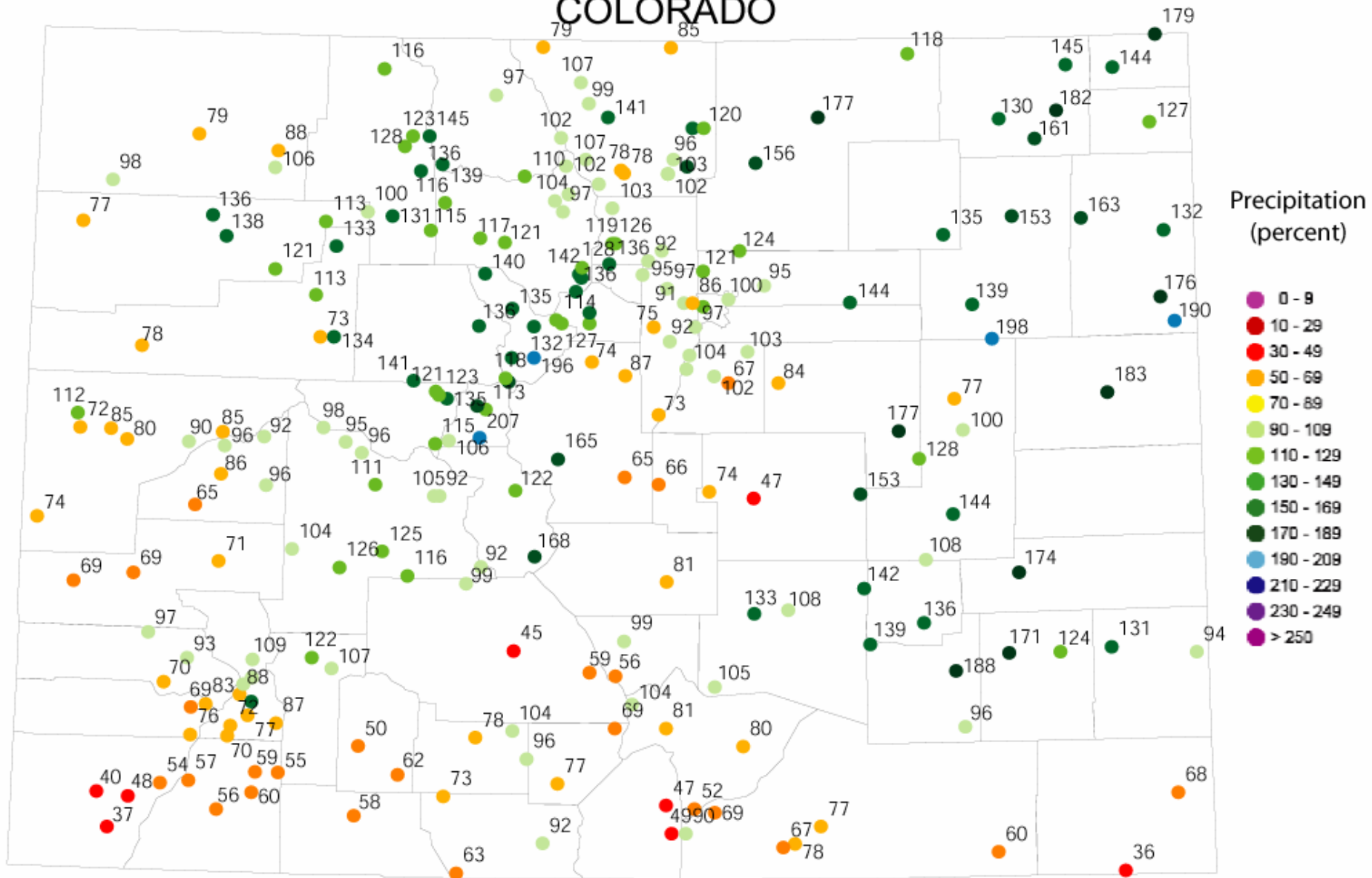
Colorado Total Precipitation

- Actual Precipitation
- Average Precipitation
- Trend

February

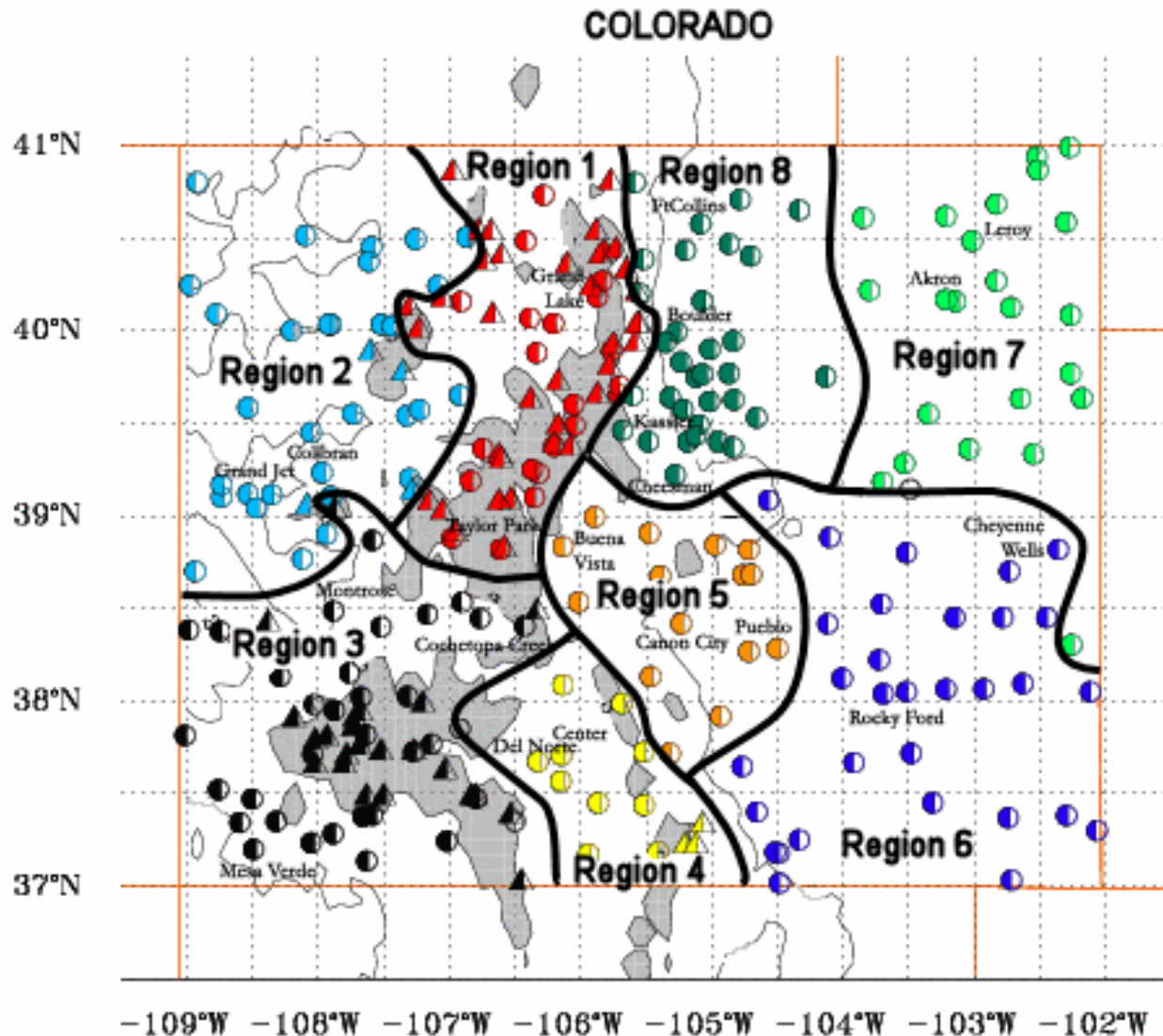


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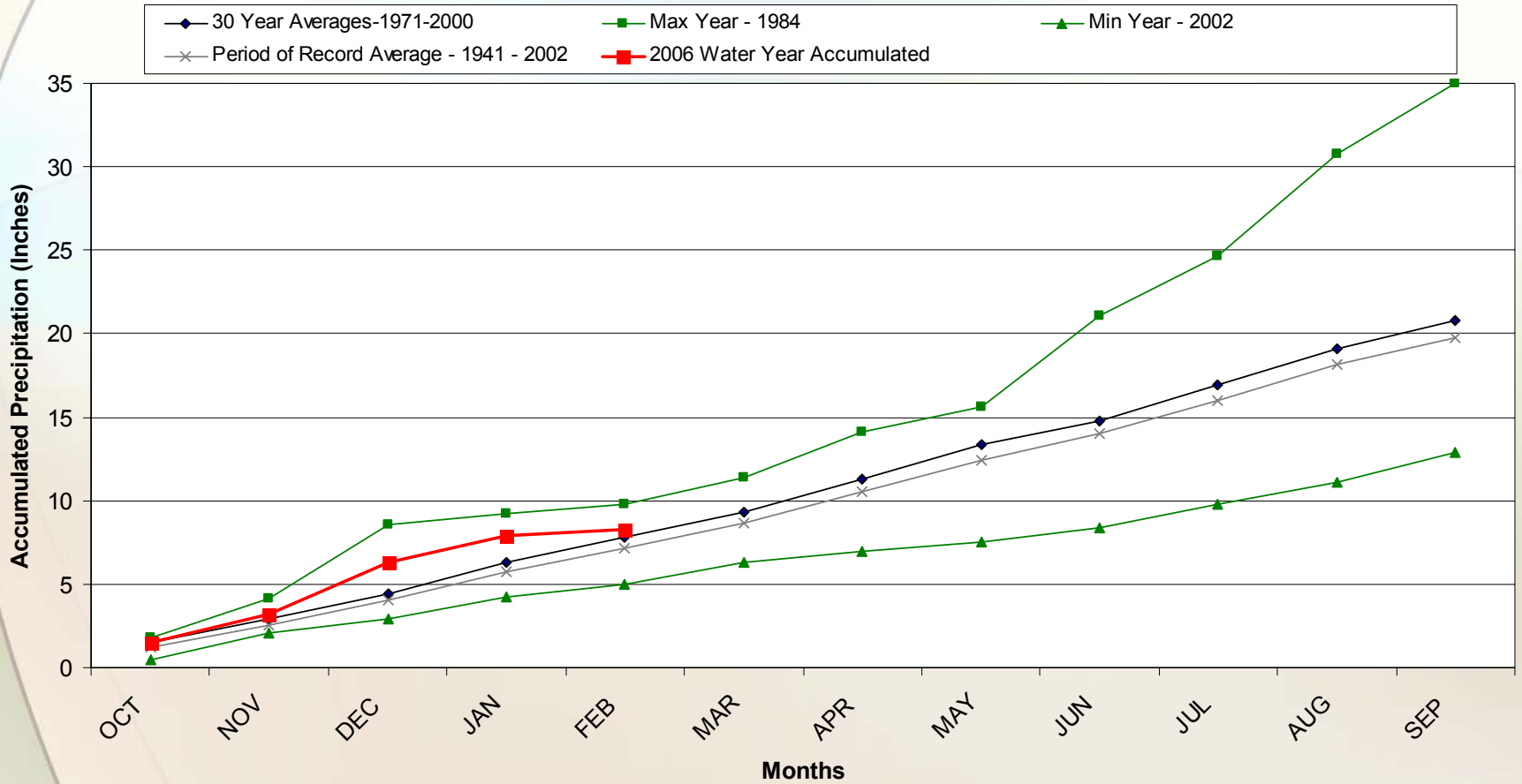
Water Year 2006 (October 2005 through February 2006) precipitation as a percent of the 1971-2000 average.

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



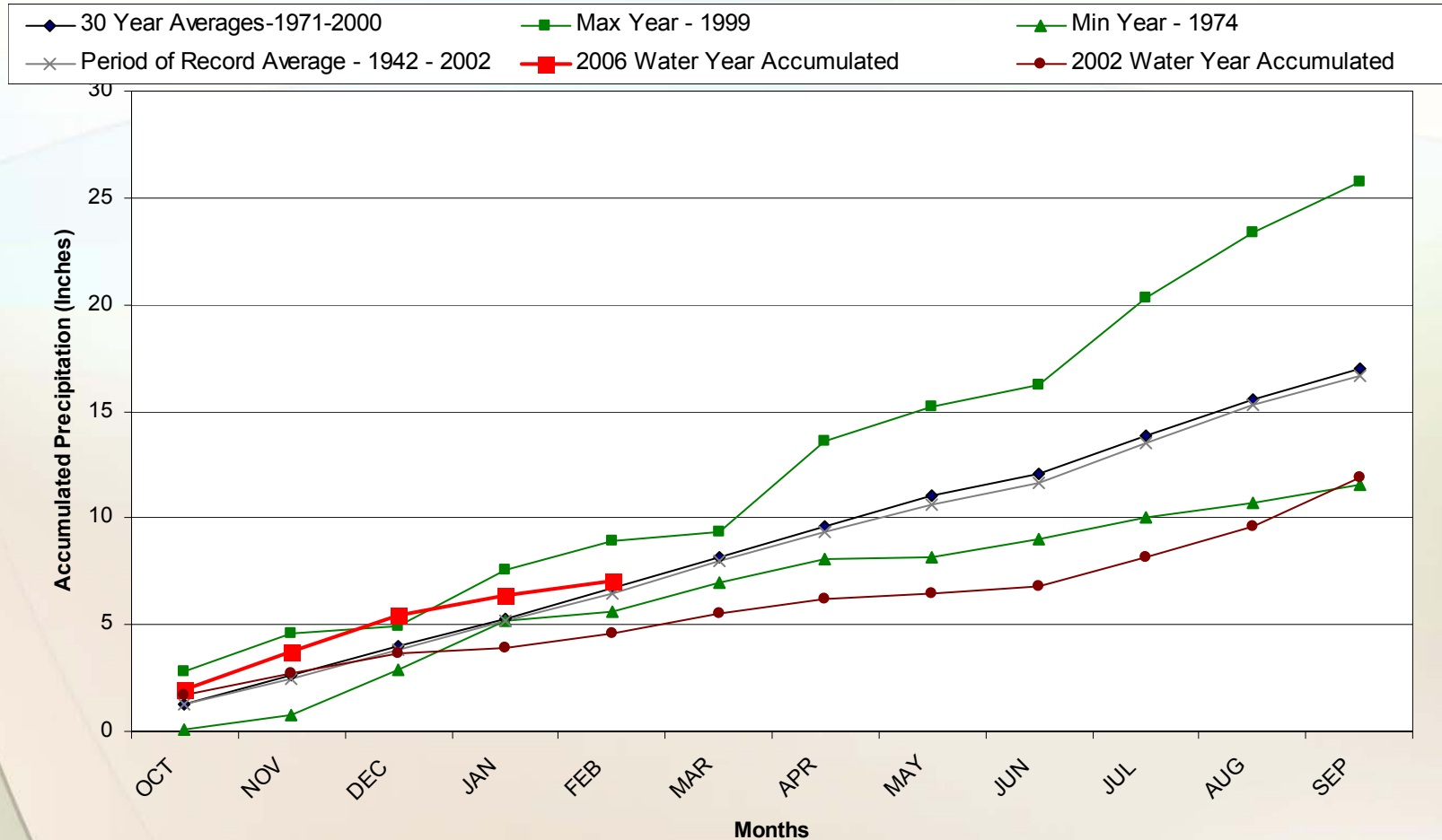
Division 1- Grand Lake 1NW

Grand Lake 1 NW 2006 Water Year



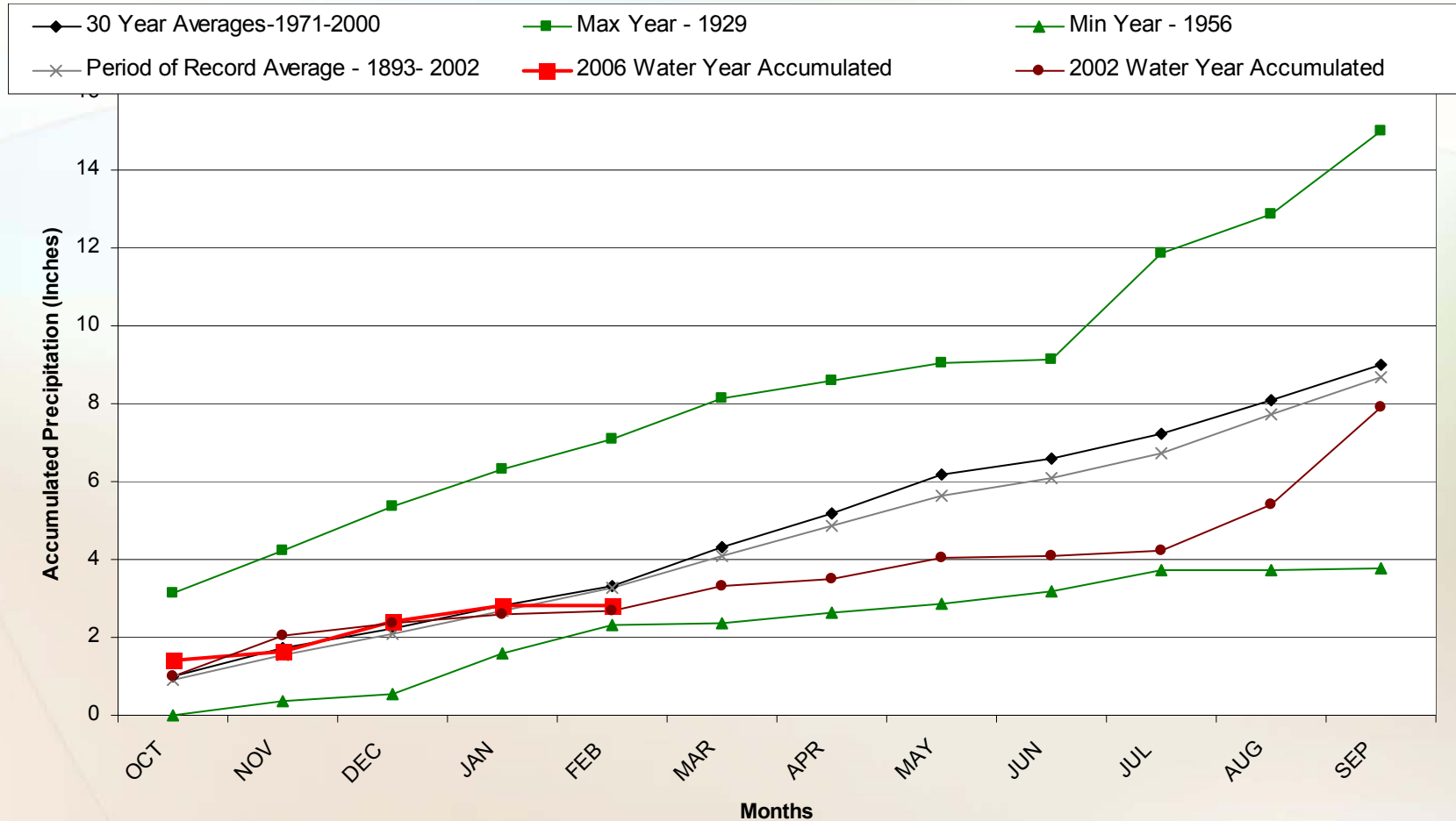
Division 1 - Taylor Park

Taylor Park 2006 Water Year



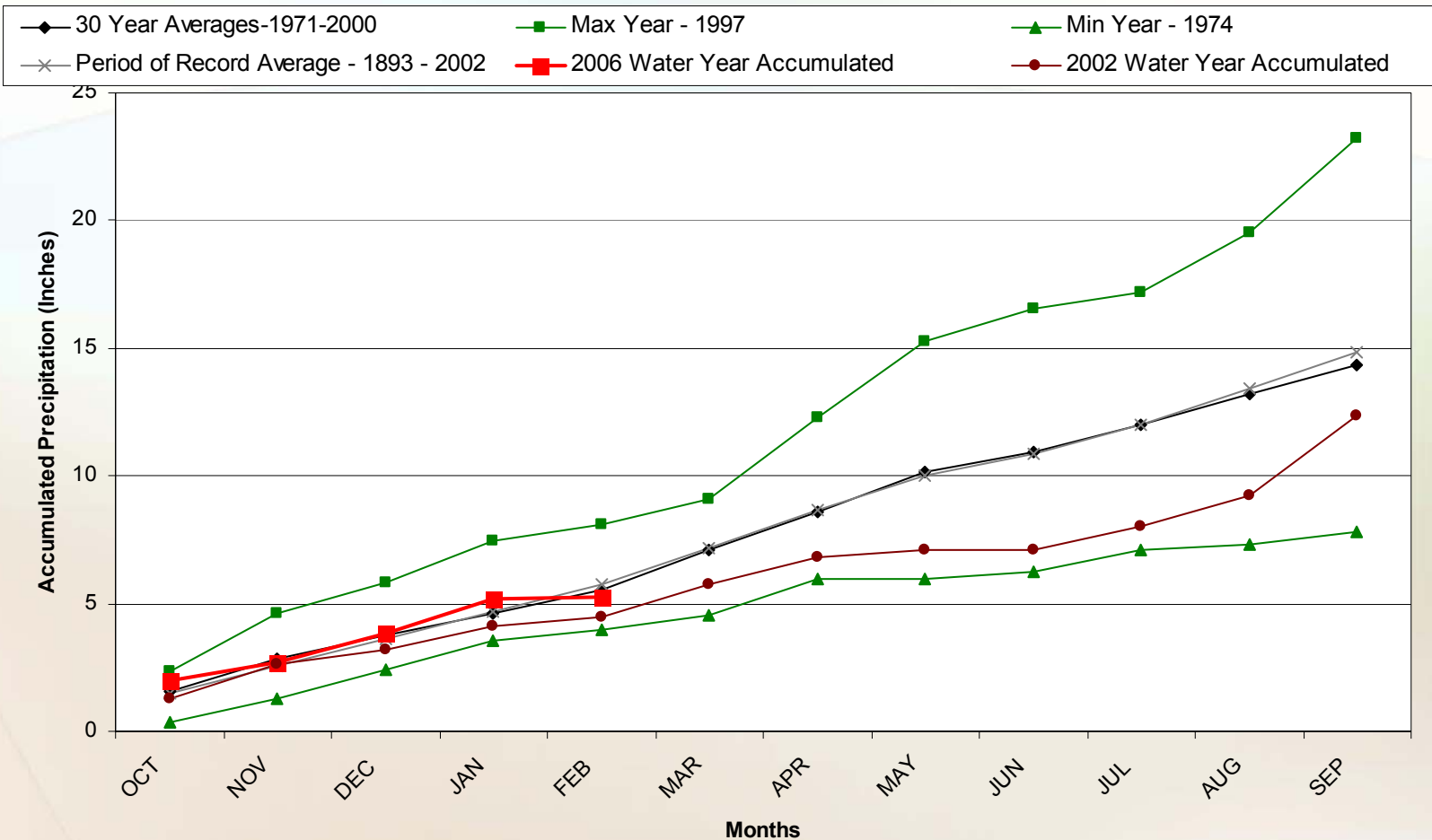
Division 2 - Grand Junction

Grand Junction WSFO 2006 Water Year



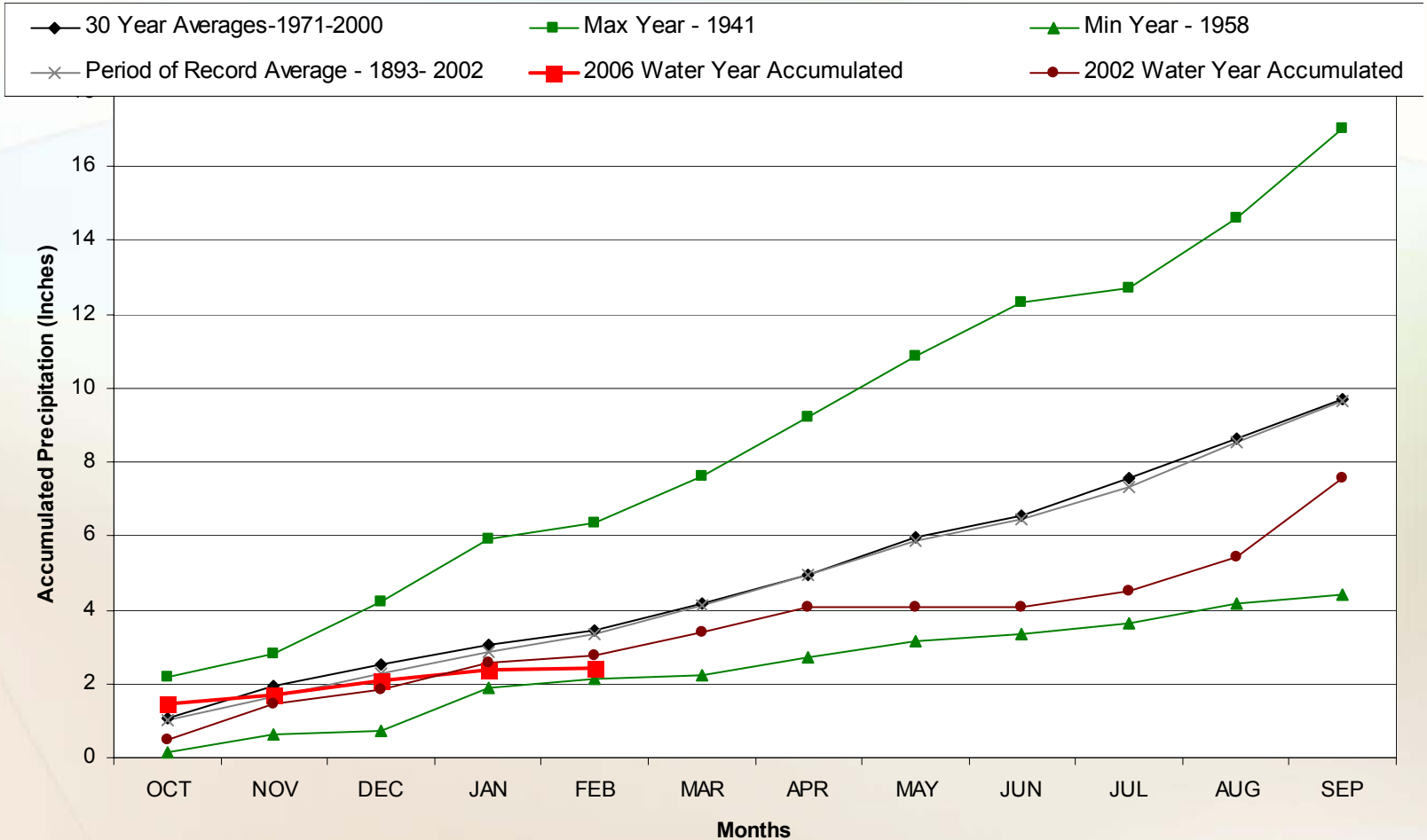
Division 2 - Collbran

Collbran 2SW 2006 Water Year



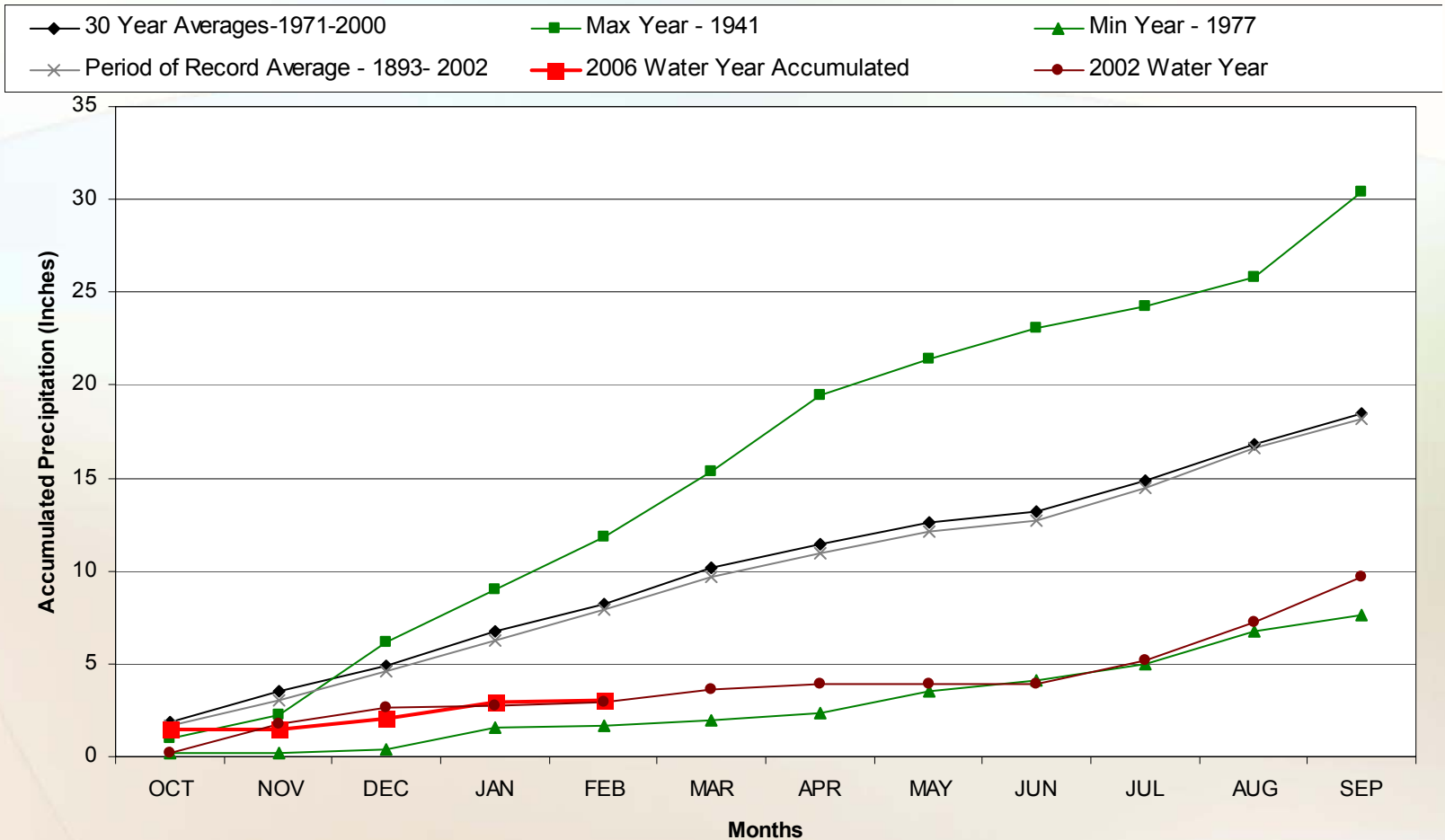
Division 3 - Montrose

Montrose #2 2006 Water Year



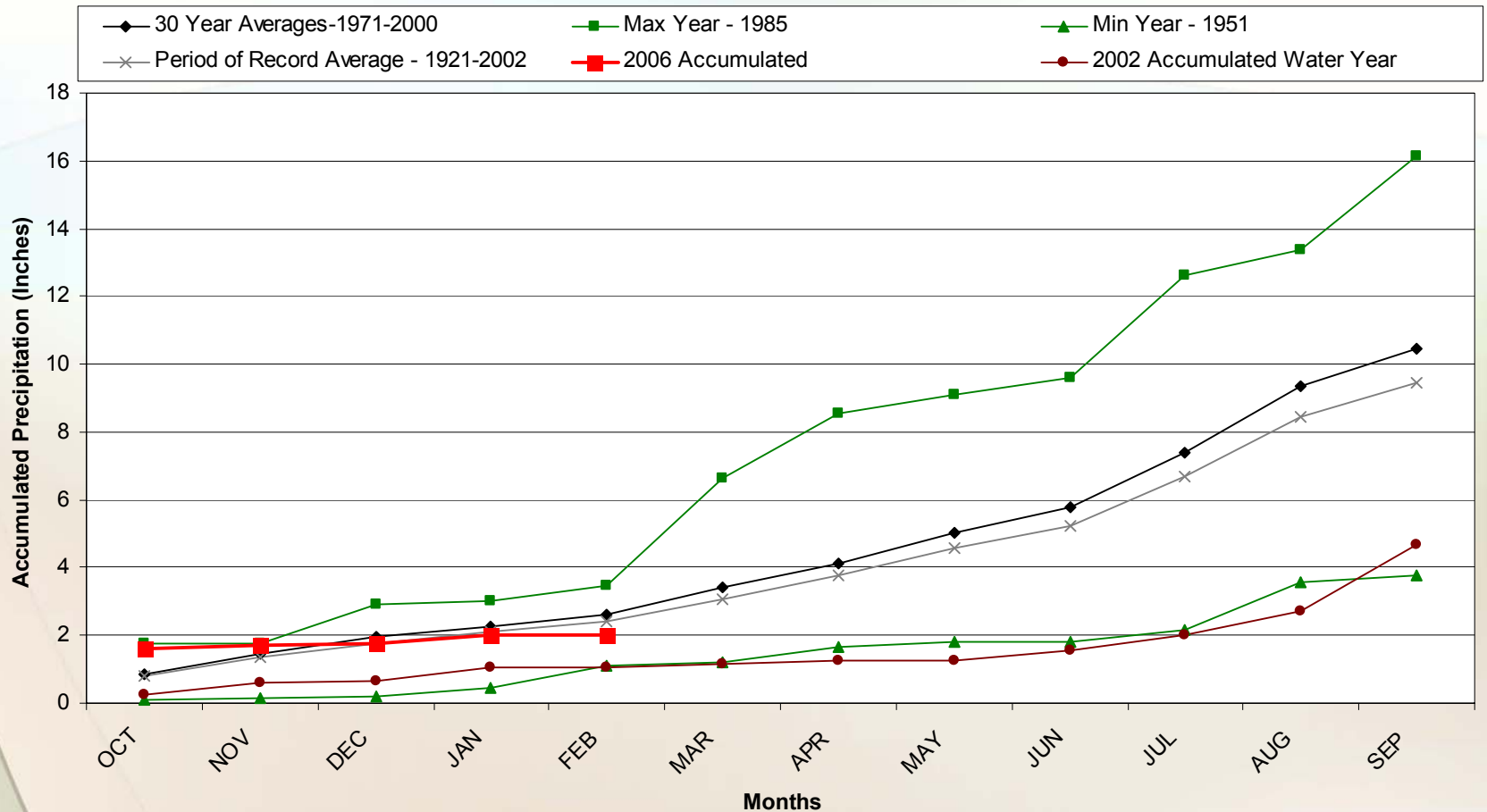
Division 3 - Mesa Verde

Mesa Verde NP 2006 Water Year



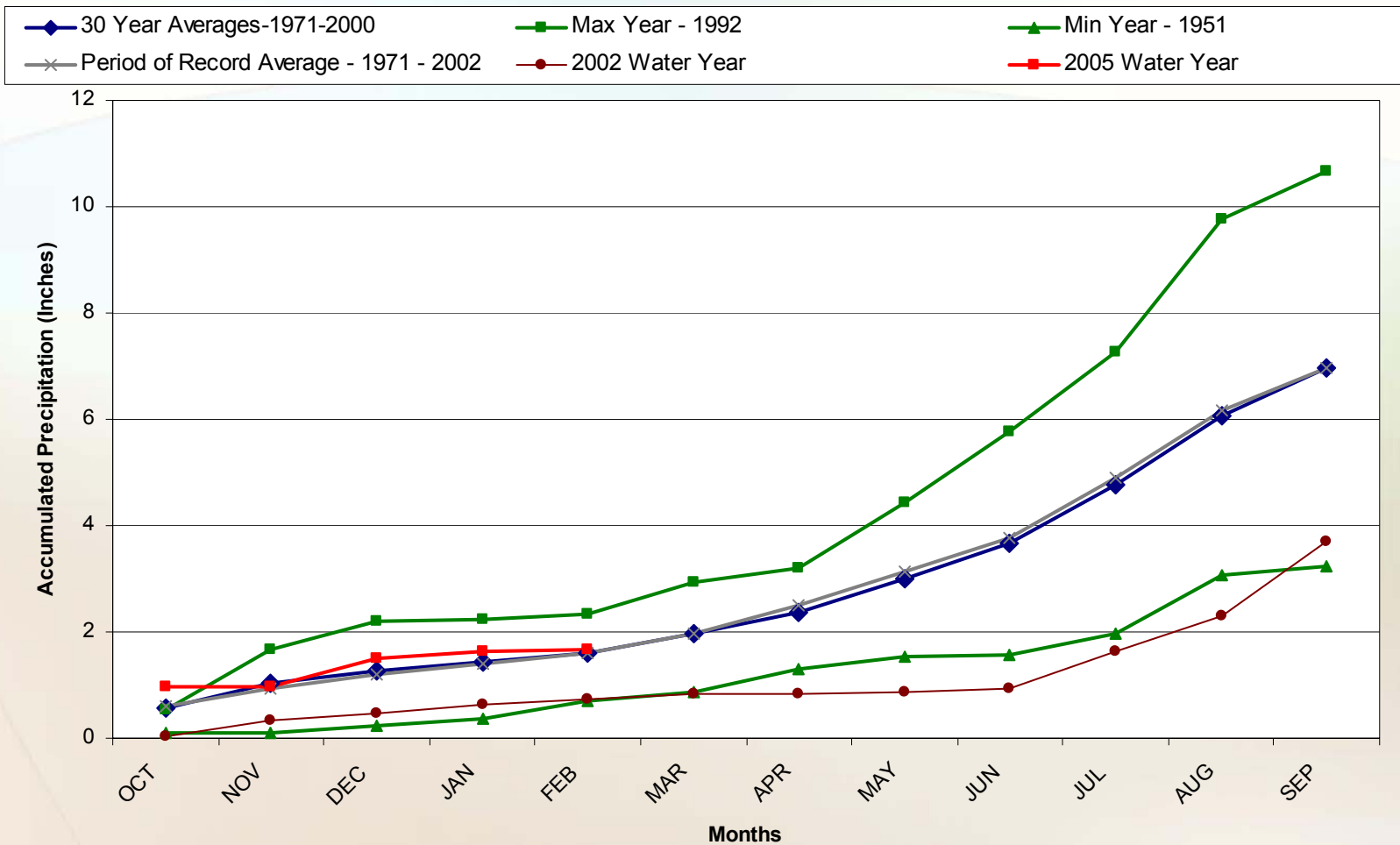
Division 4 - Del Norte

Del Norte 2006 Water Year



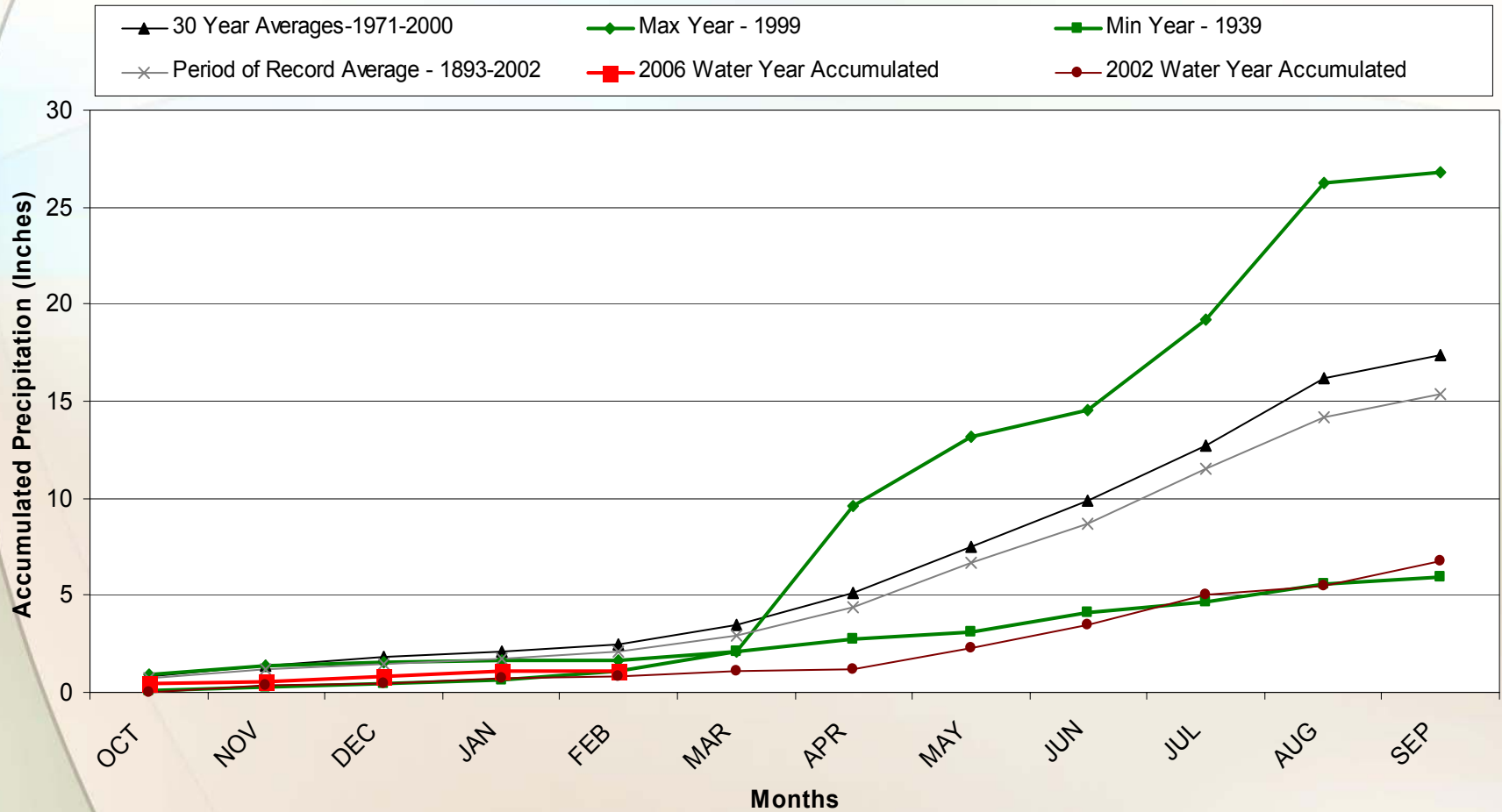
Division 4 - Center

Center 4SSW 2006 Water Year



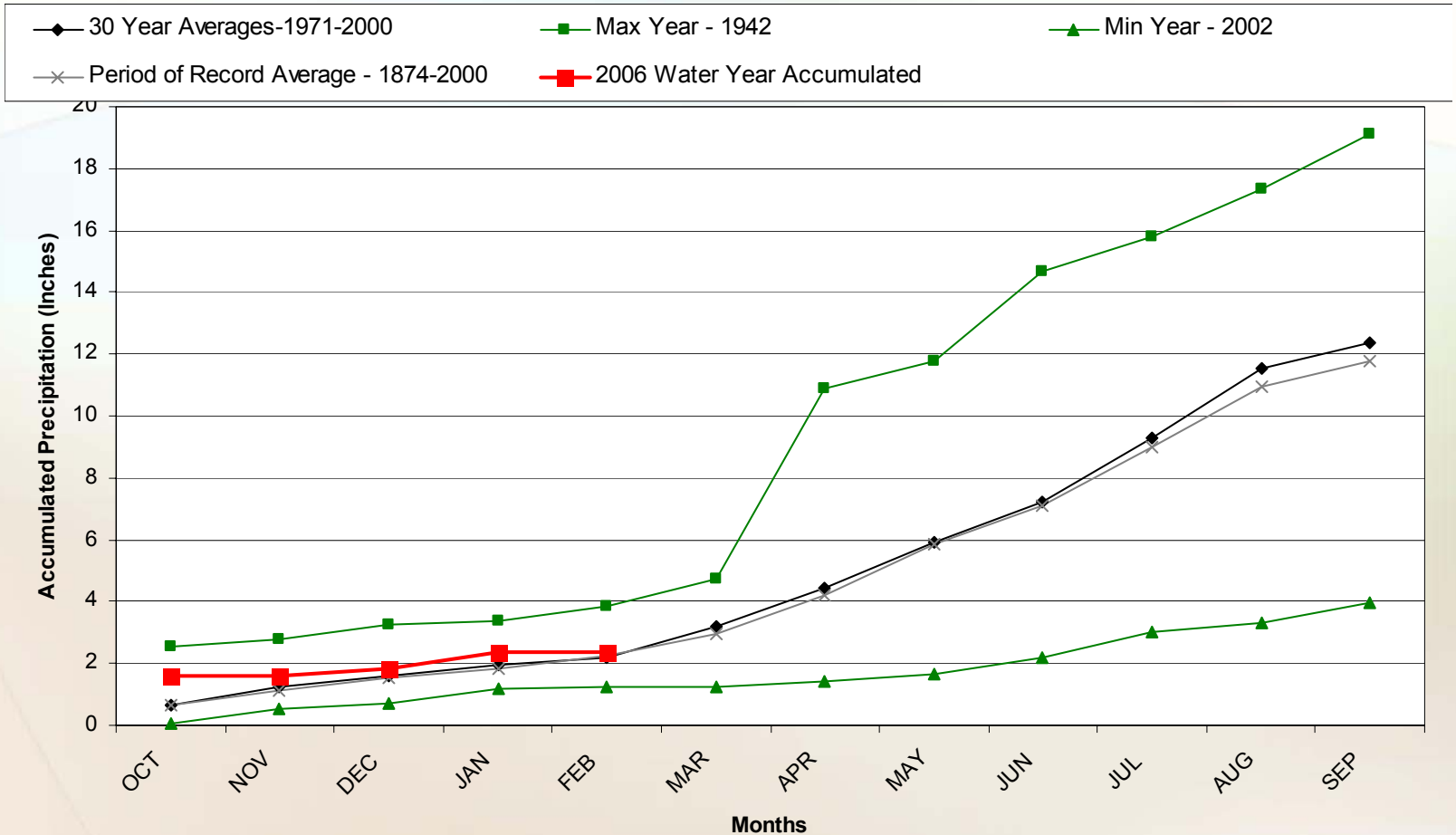
Division 5 - Colorado Springs

Colorado Springs 2006 Water Year



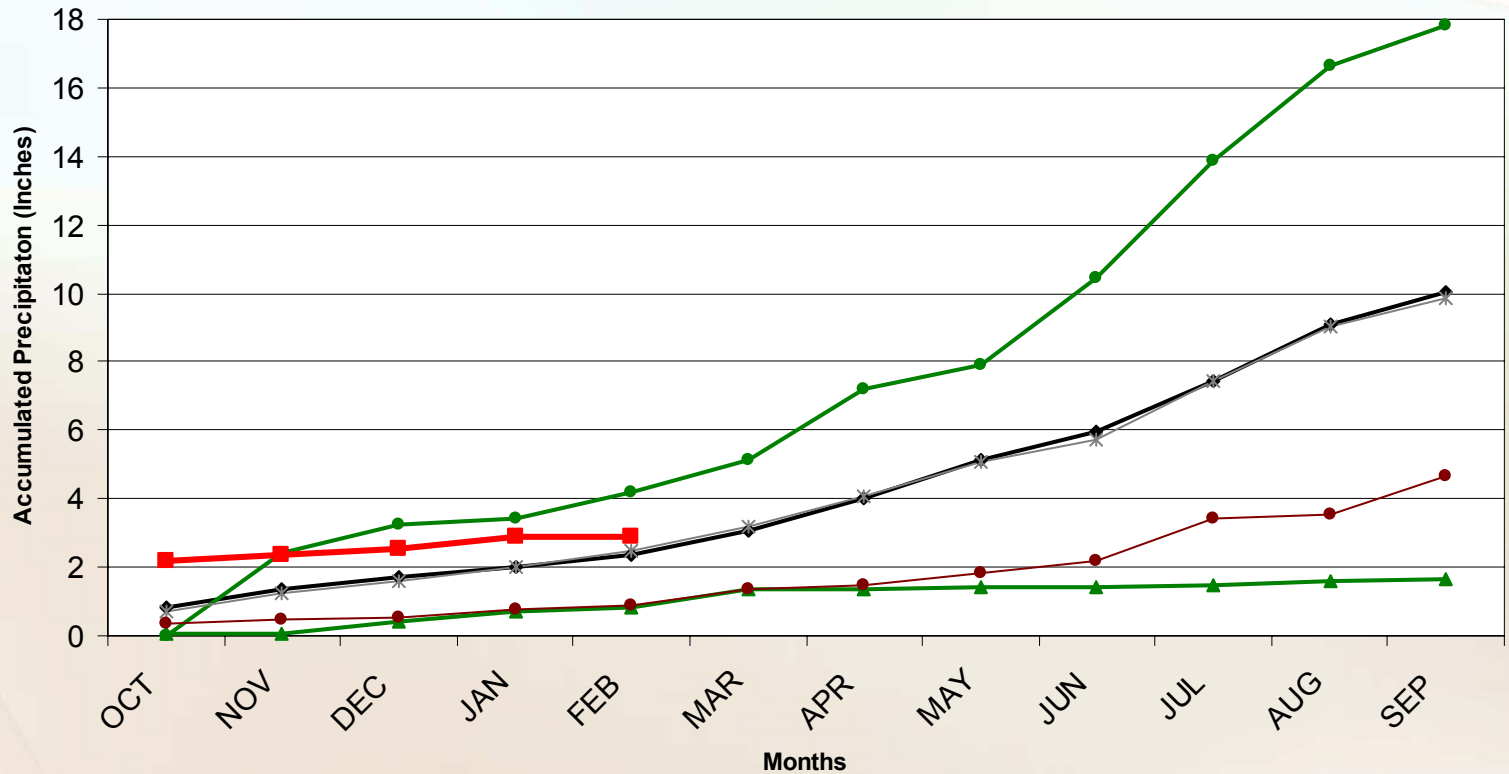
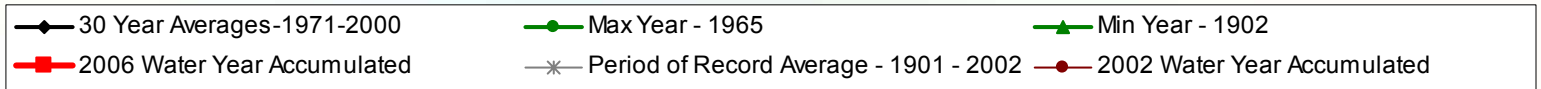
Division 5 - Pueblo

Pueblo WSO 2006 Water Year



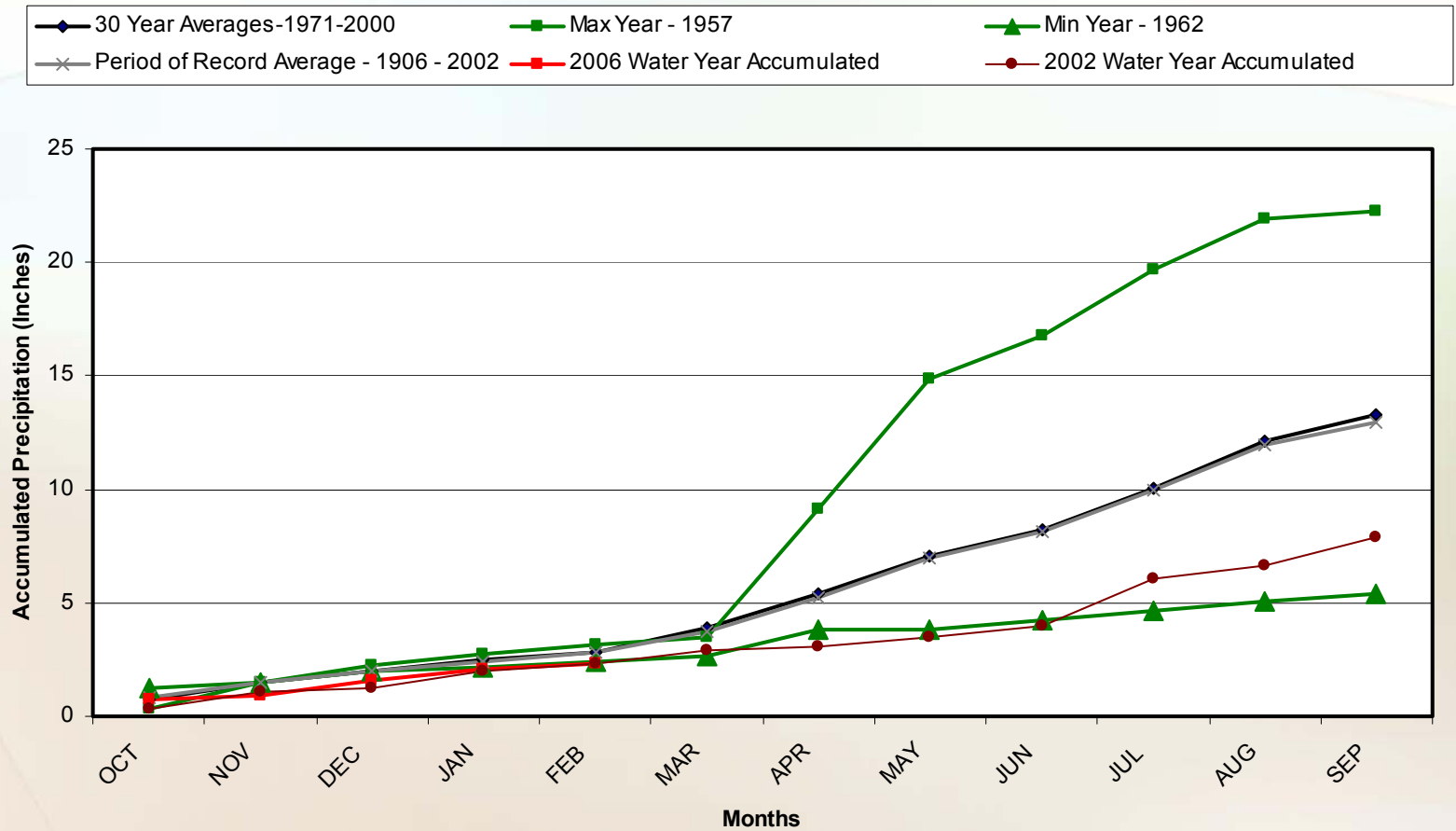
Division 5 - Buena Vista

Buena Vista 2006 Water Year



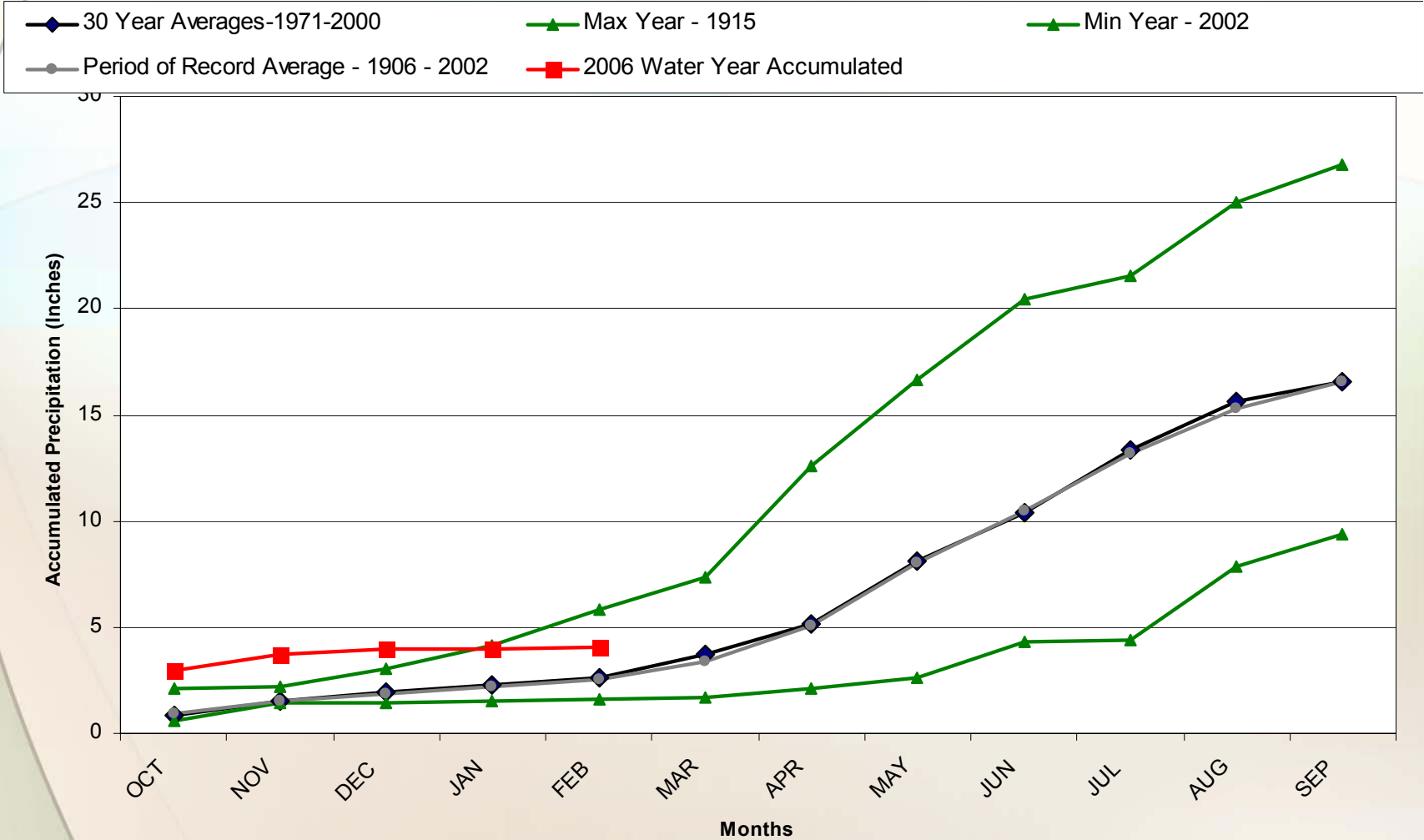
Division 5 - Canon City

Canon City 2006 Water Year



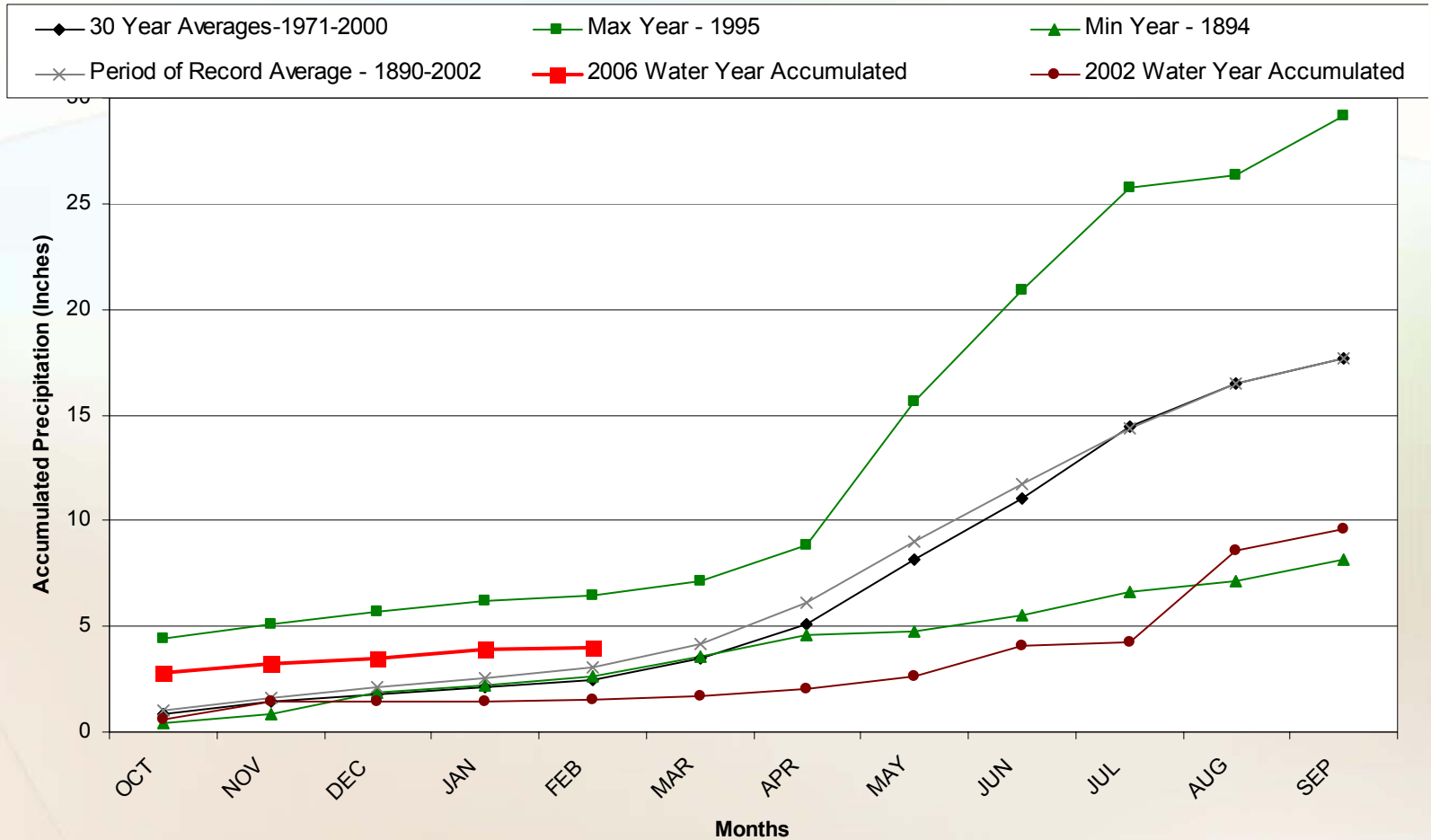
Division 7 - Akron

Akron 4E 2006 Water Year



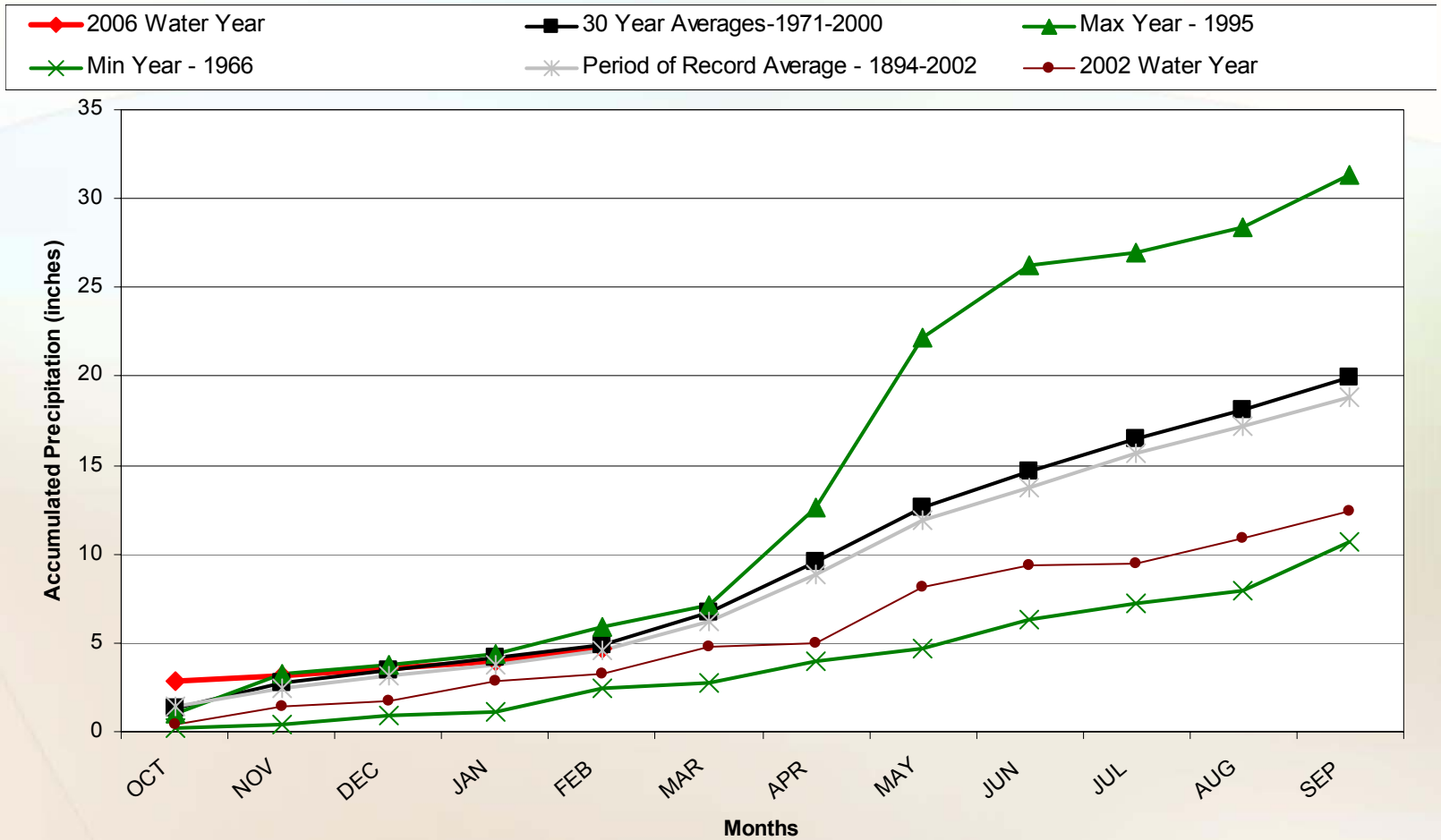
Division 7 - Leroy

Leroy 5SW 2006 Water Year



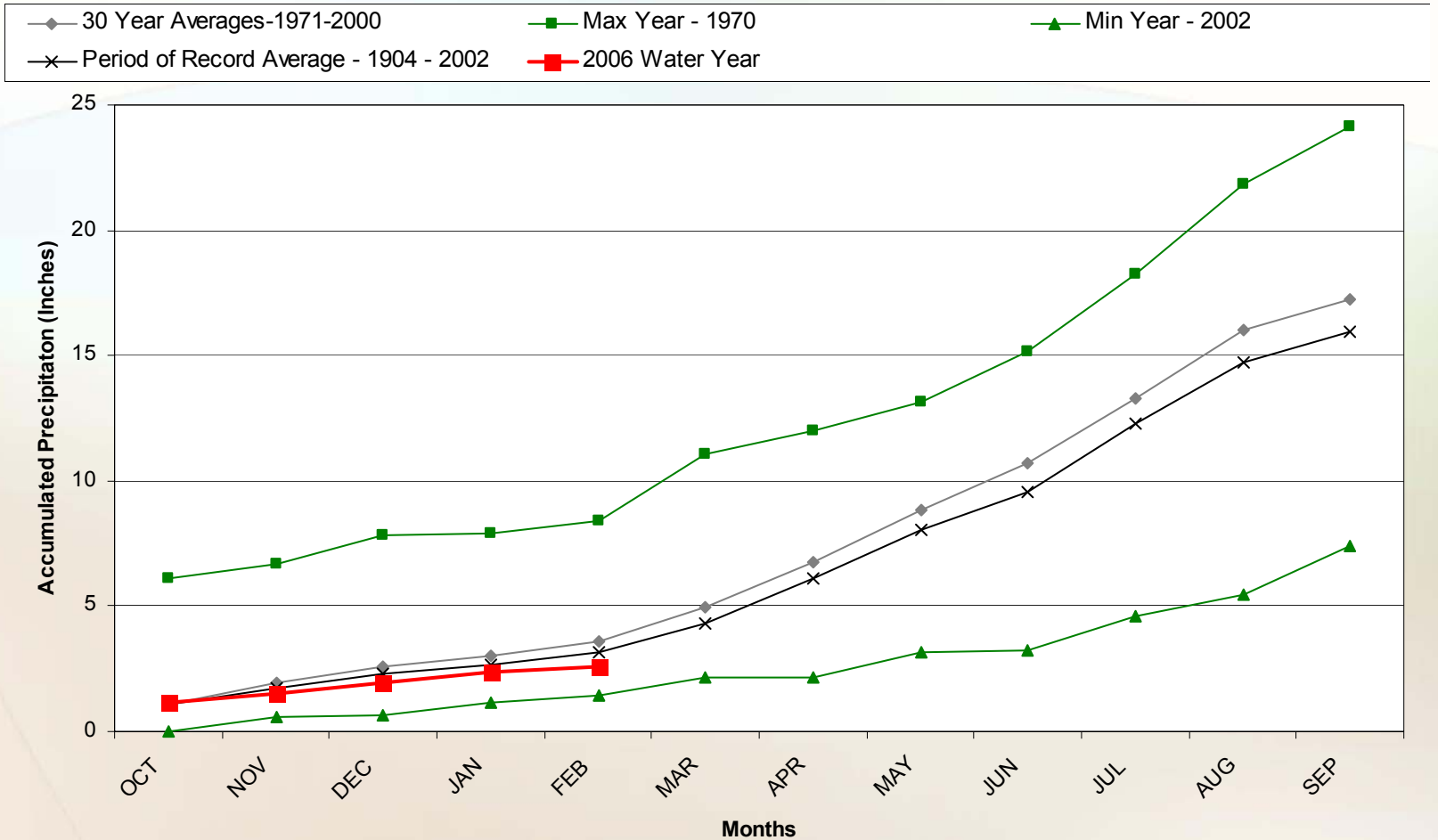
Division 8 - Boulder

Boulder 2006 Water Year



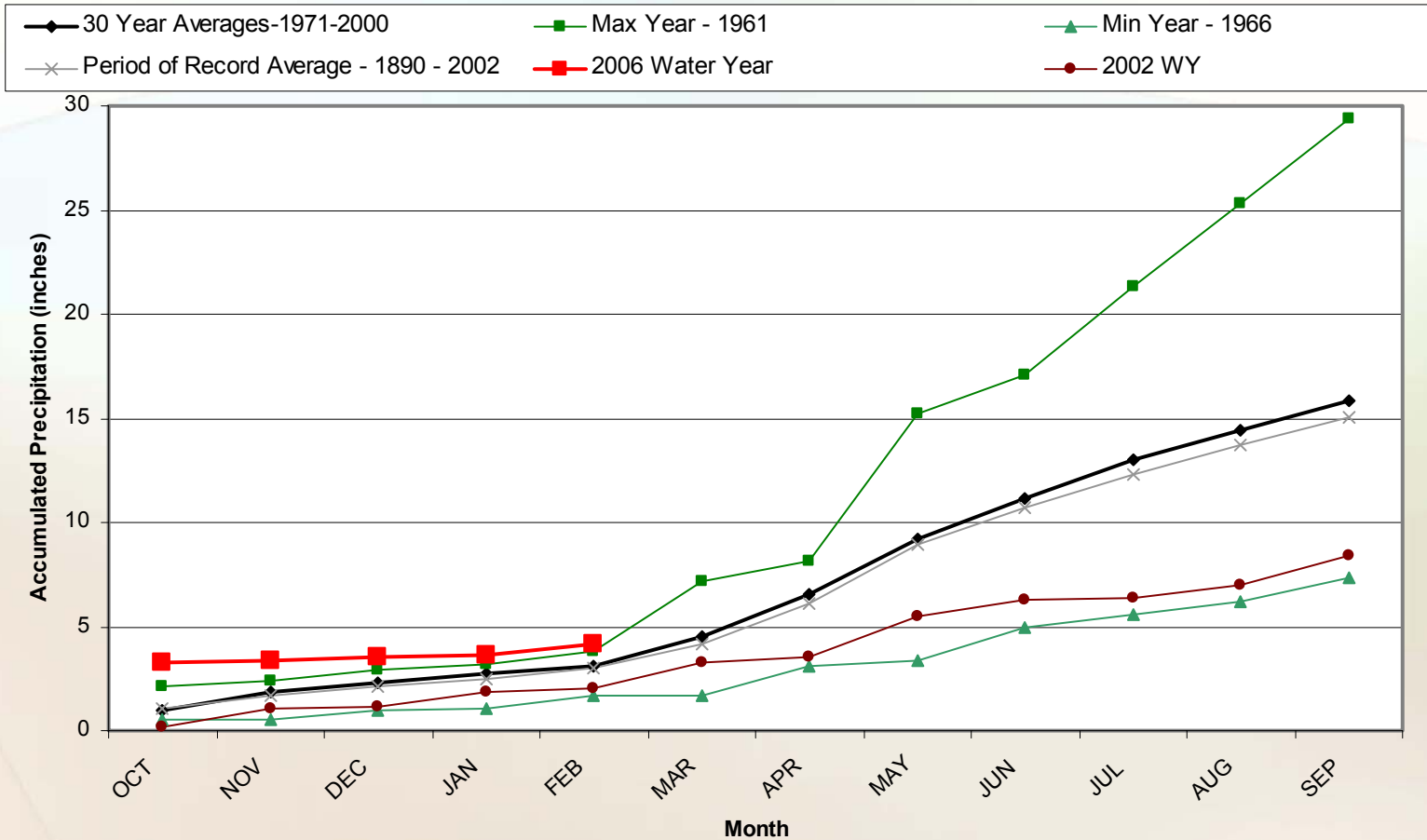
Division 8 - Cheesman

Cheesman 2006 Water Year



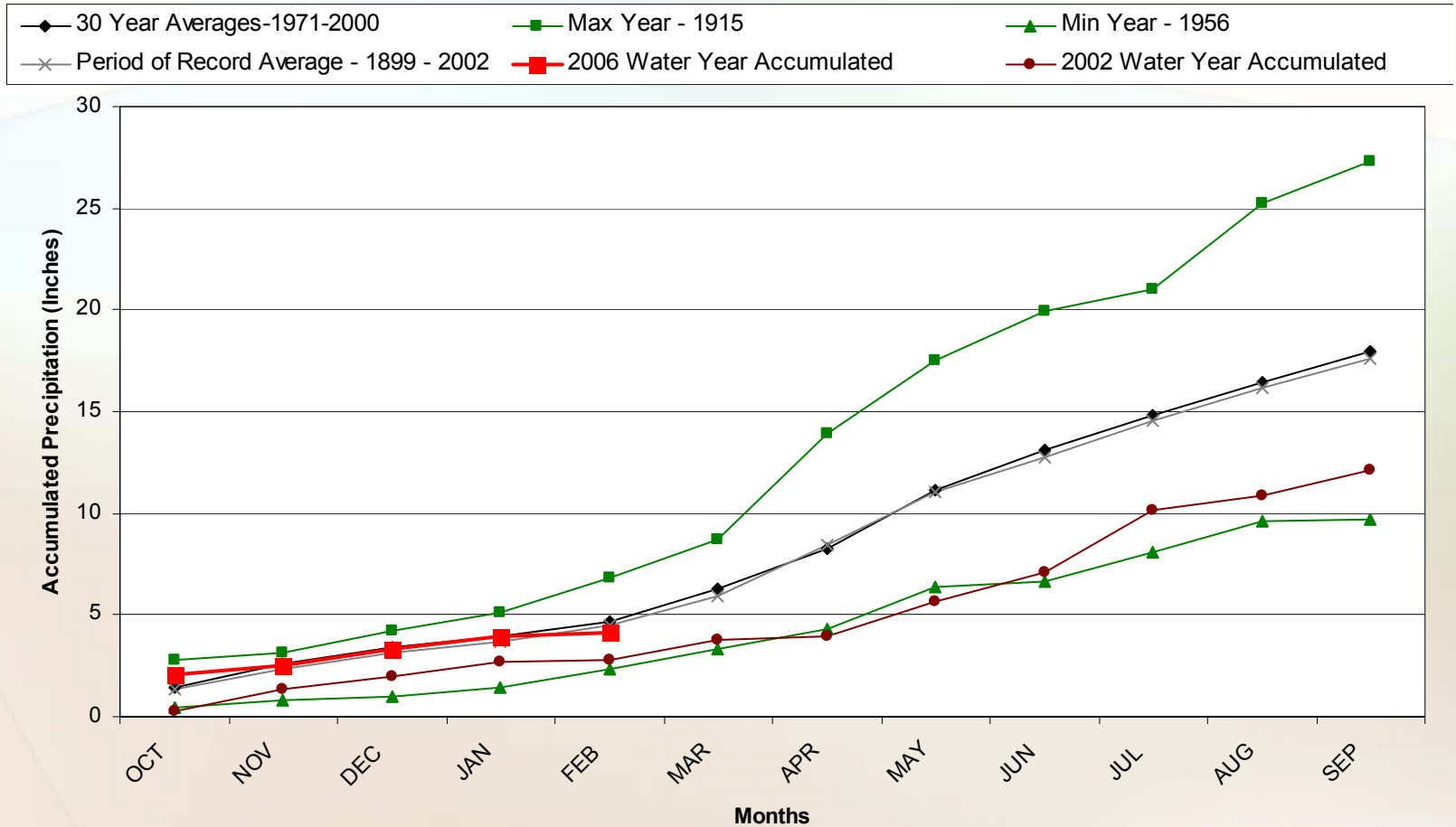
Division 8 - Fort Collins

Fort Collins 2006 Water Year

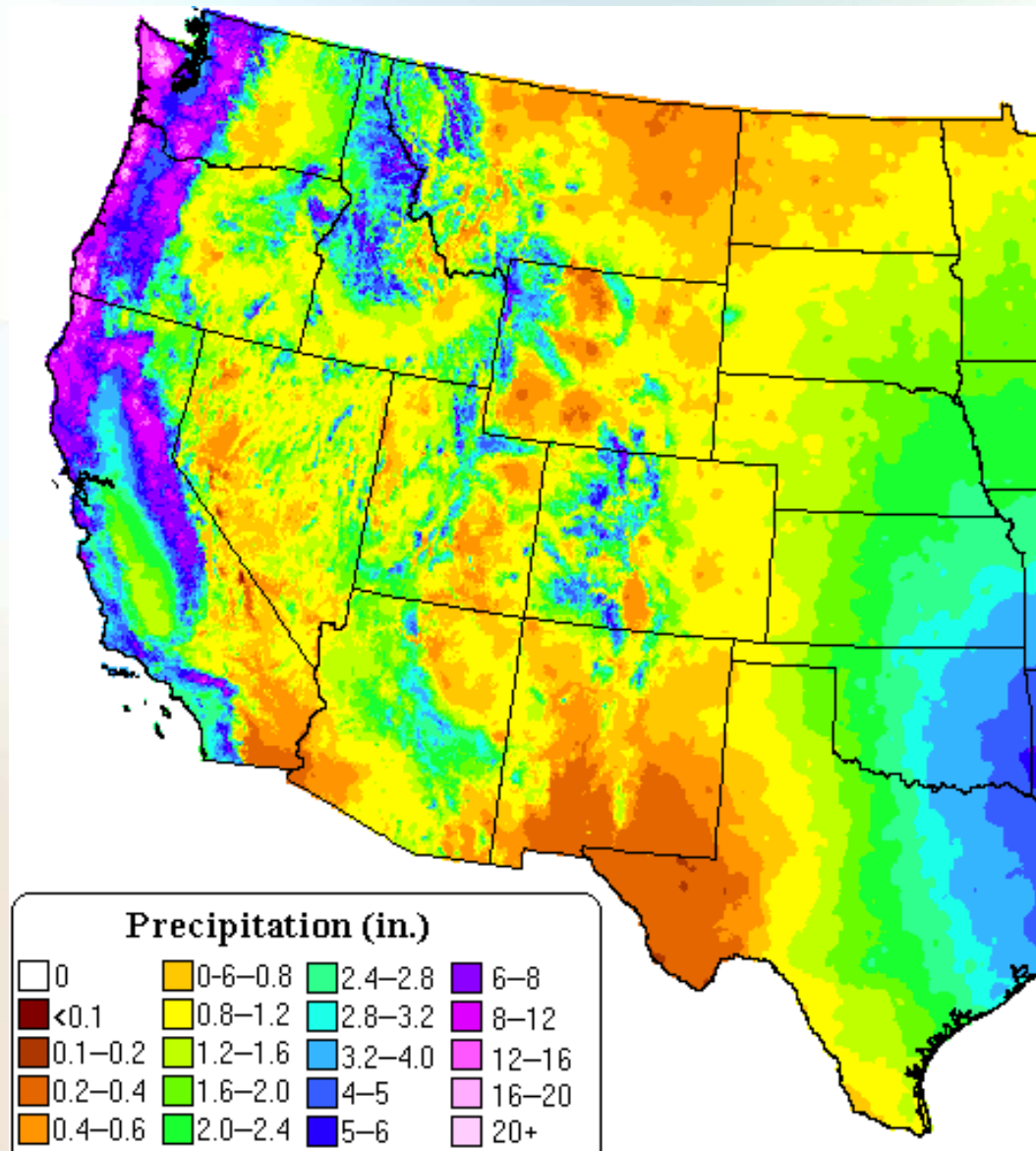


Division 8 - Kassler

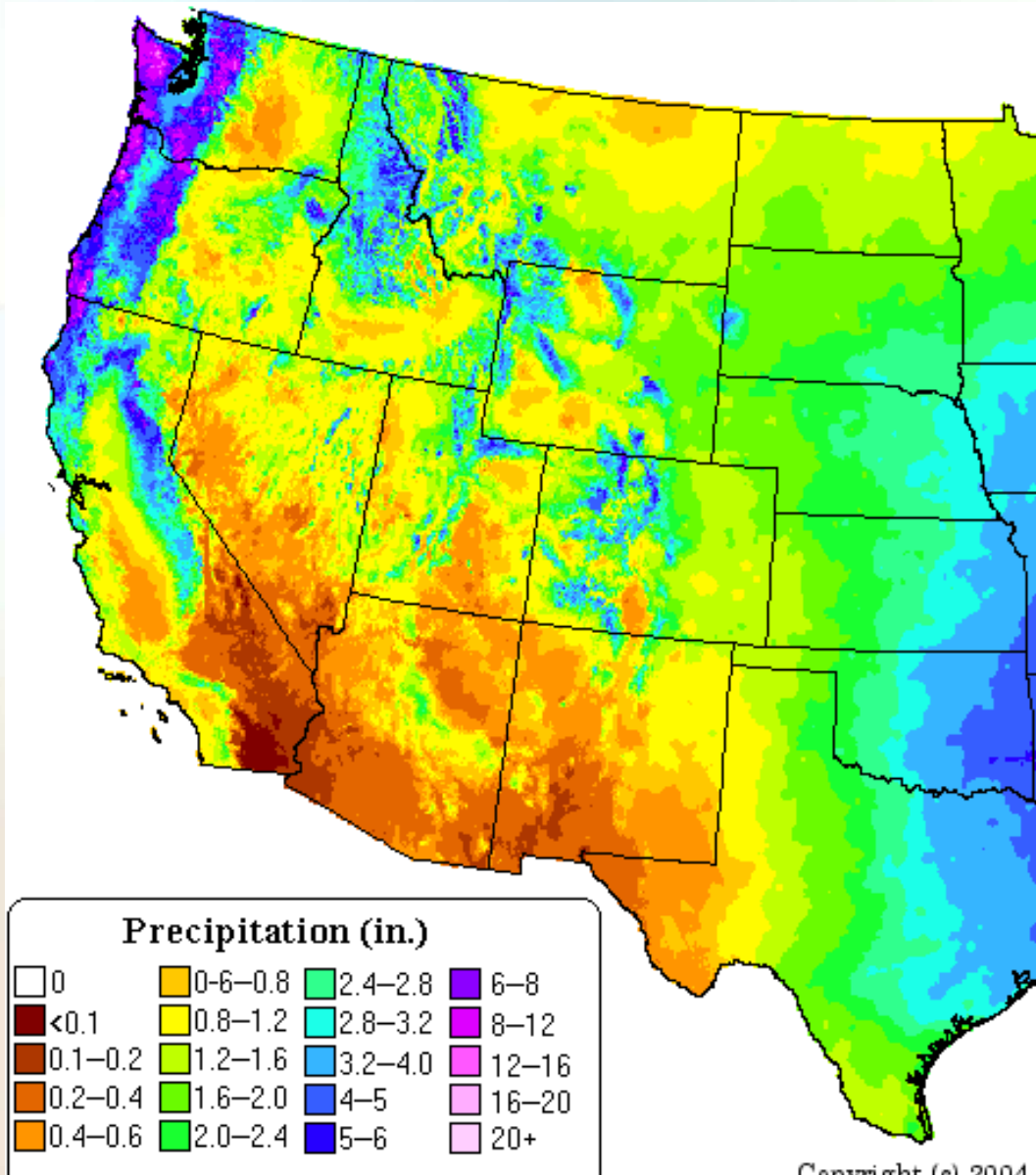
Kassler 2006 Water Year



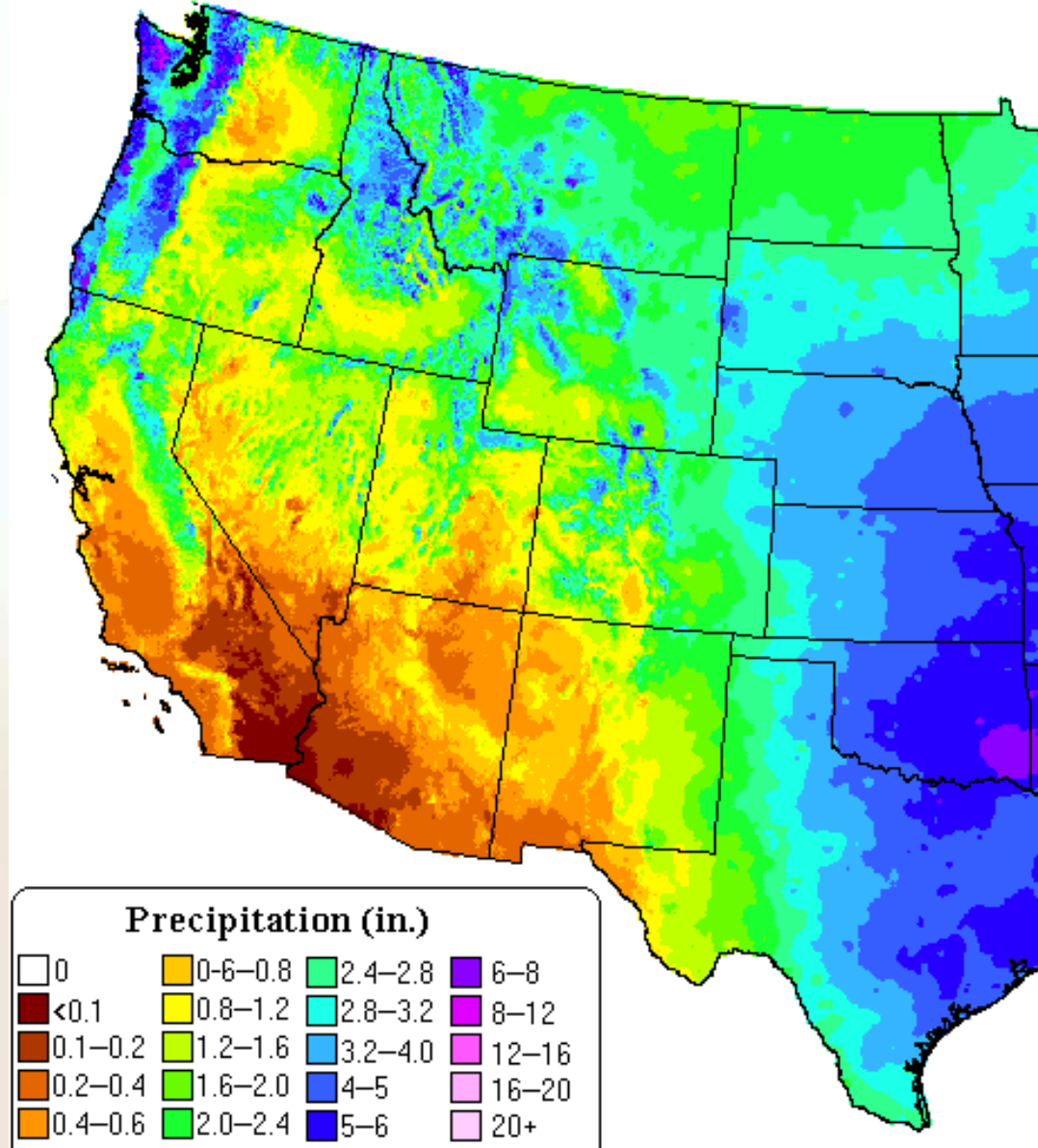
March Average Precipitation



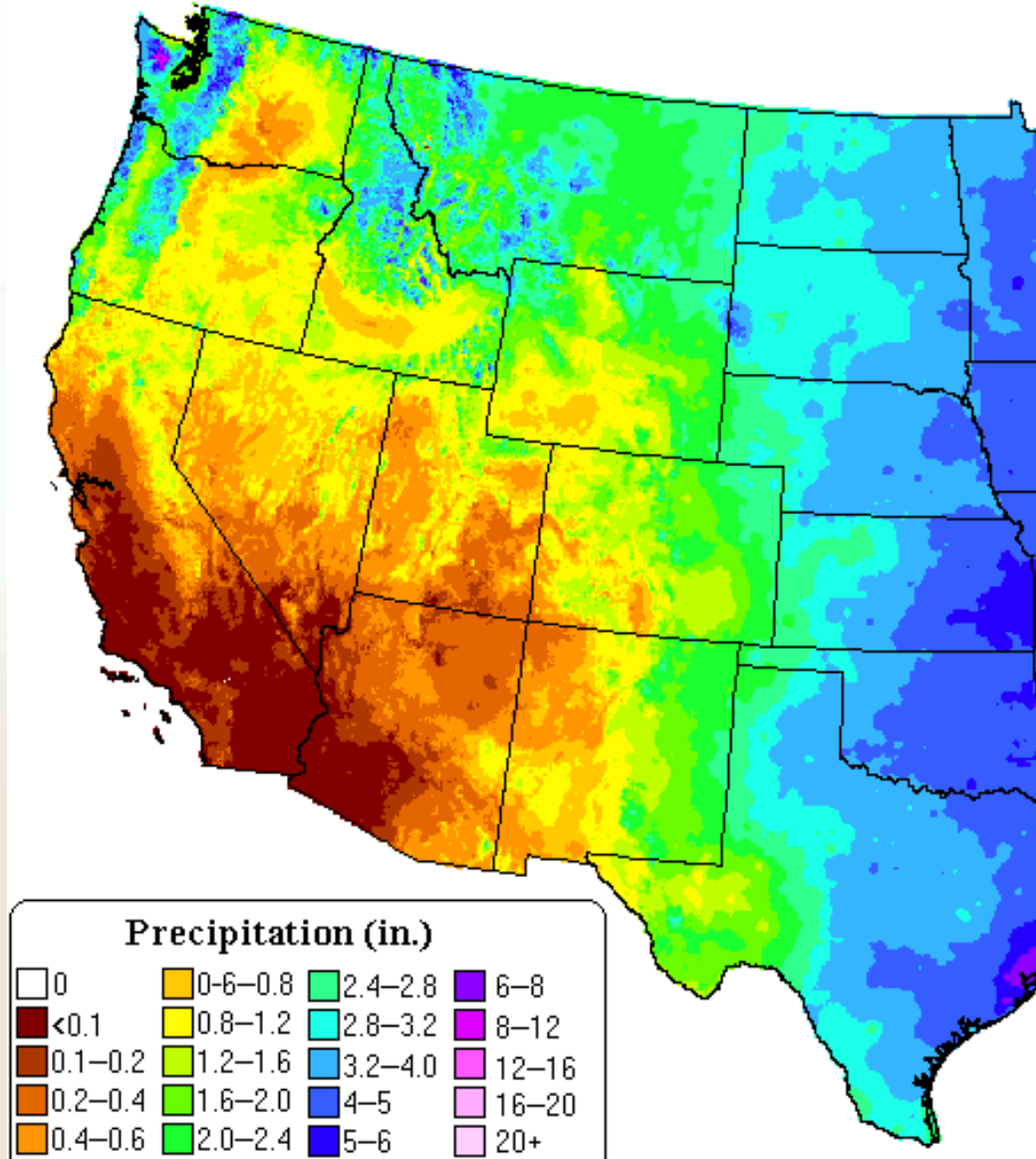
April Average Precipitation



May Average Precipitation



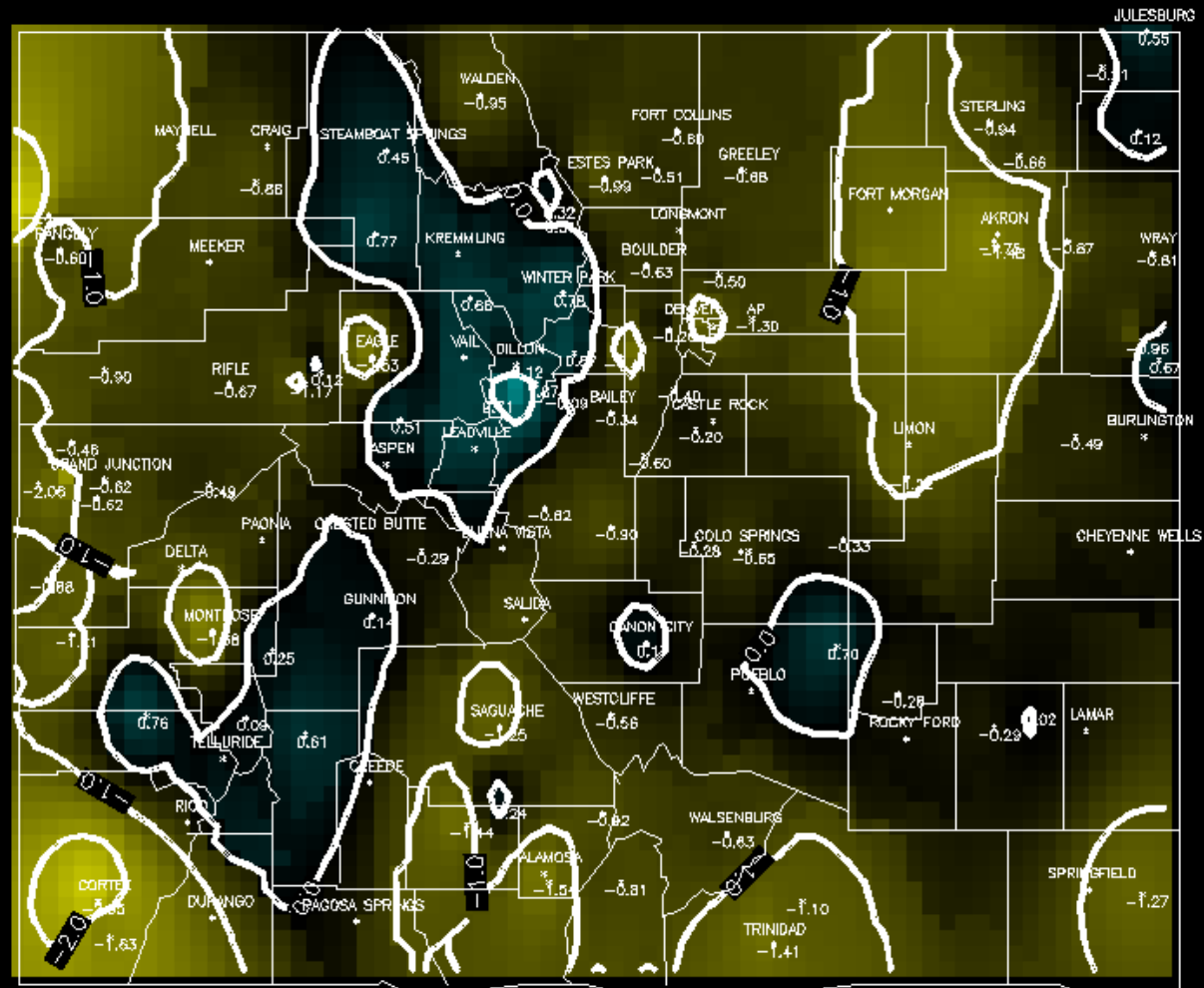
June Average Precipitation



3 Month SPI

Colorado

2/2006 3 mon. SPI



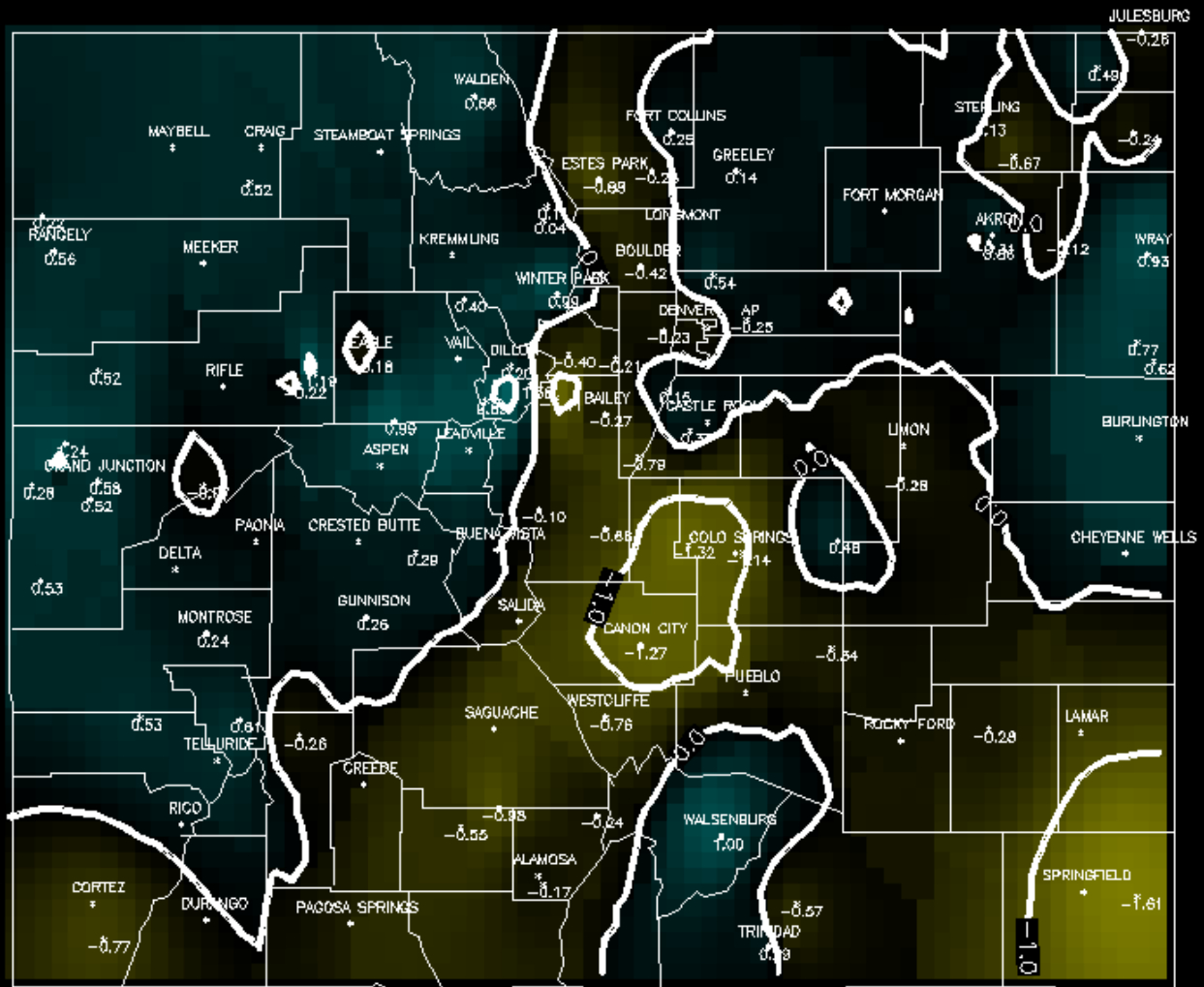
100 % < 2.0
100 % < 1.0
88 % < 0.0
22 % < -1.0
1 % < -2.0
0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

12 Month SPI

Colorado

2/2006 12 mon. SPI



100% < 2.0
100% < 1.0
43% < 0.0

4
3
2
1
0

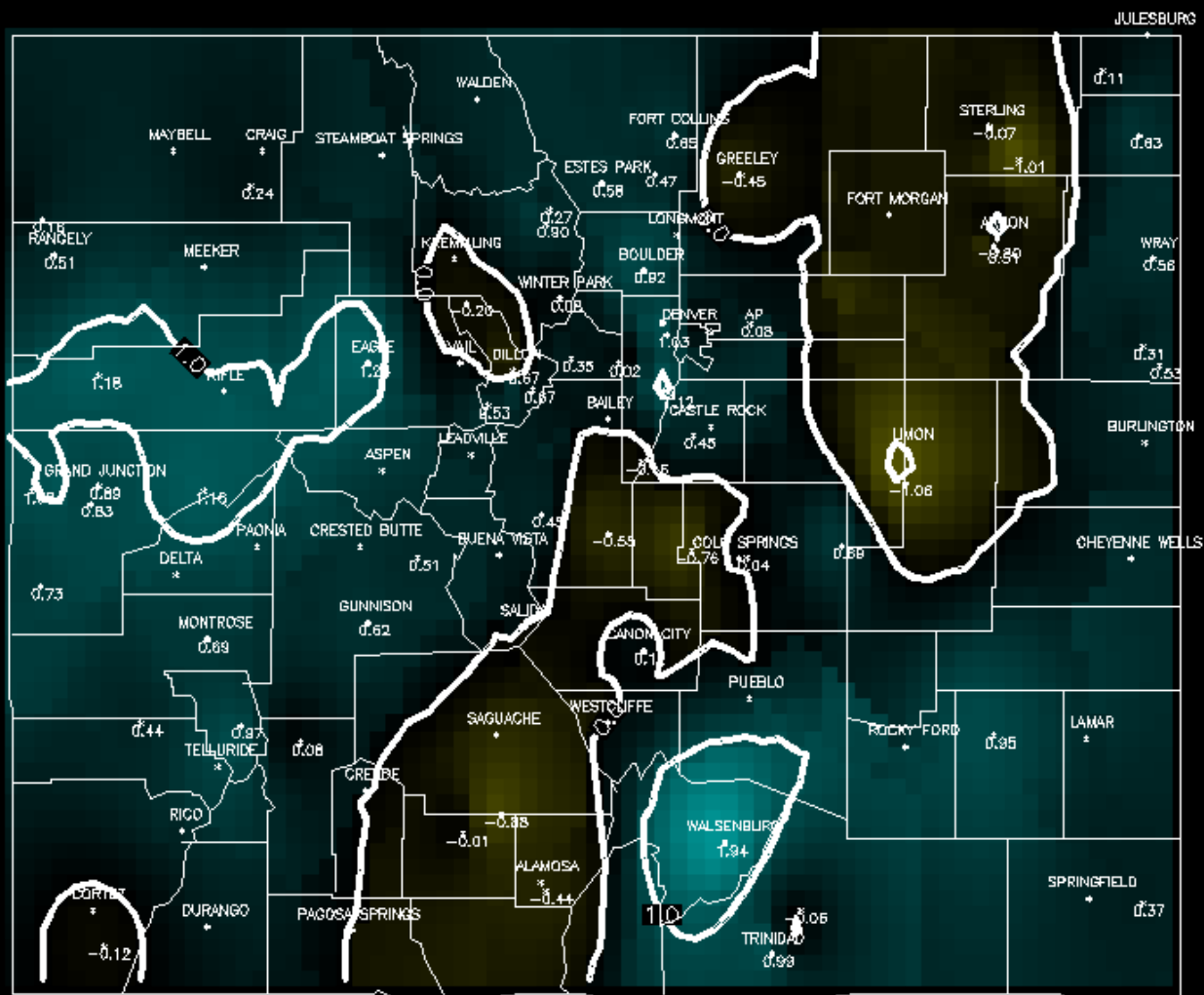
0.0
-1.0
-2.0
-3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

24 Month SPI

Colorado

2/2006 24 mon. SPI



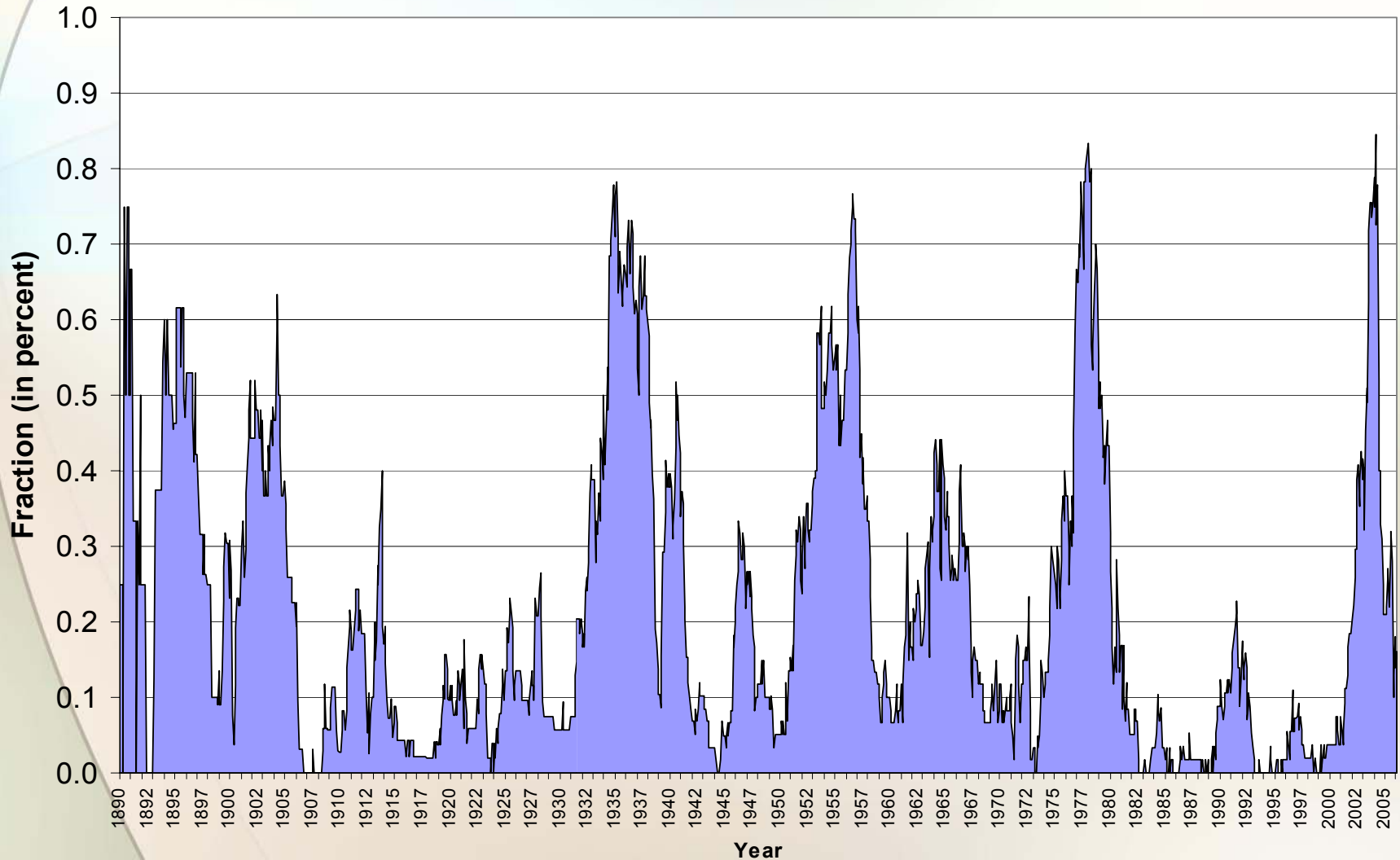
100 % < 2.0	0 % < -1.0
94 % < 1.0	0 % < -2.0
23 % < 0.0	0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

Fraction of Colorado in Drought

Fraction of Colorado in Drought Based on 48 month SPI

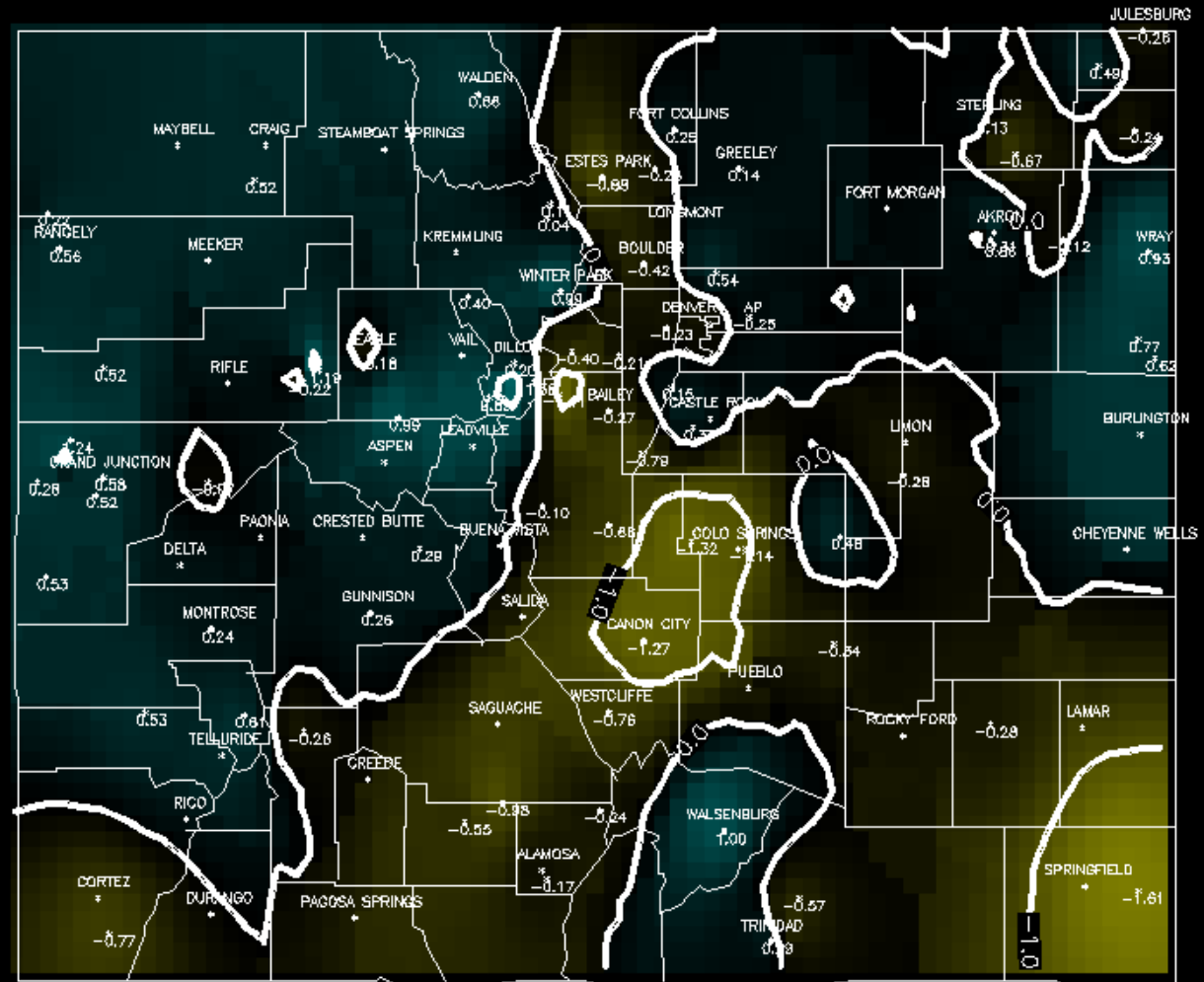
(1890 - February 2006)



12 Month SPI

Colorado

2/2006 12 mon. SPI



100 % < 2.0	4 % < -1.0
100 % < 1.0	0 % < -2.0
43 % < 0.0	0 % < -3.0

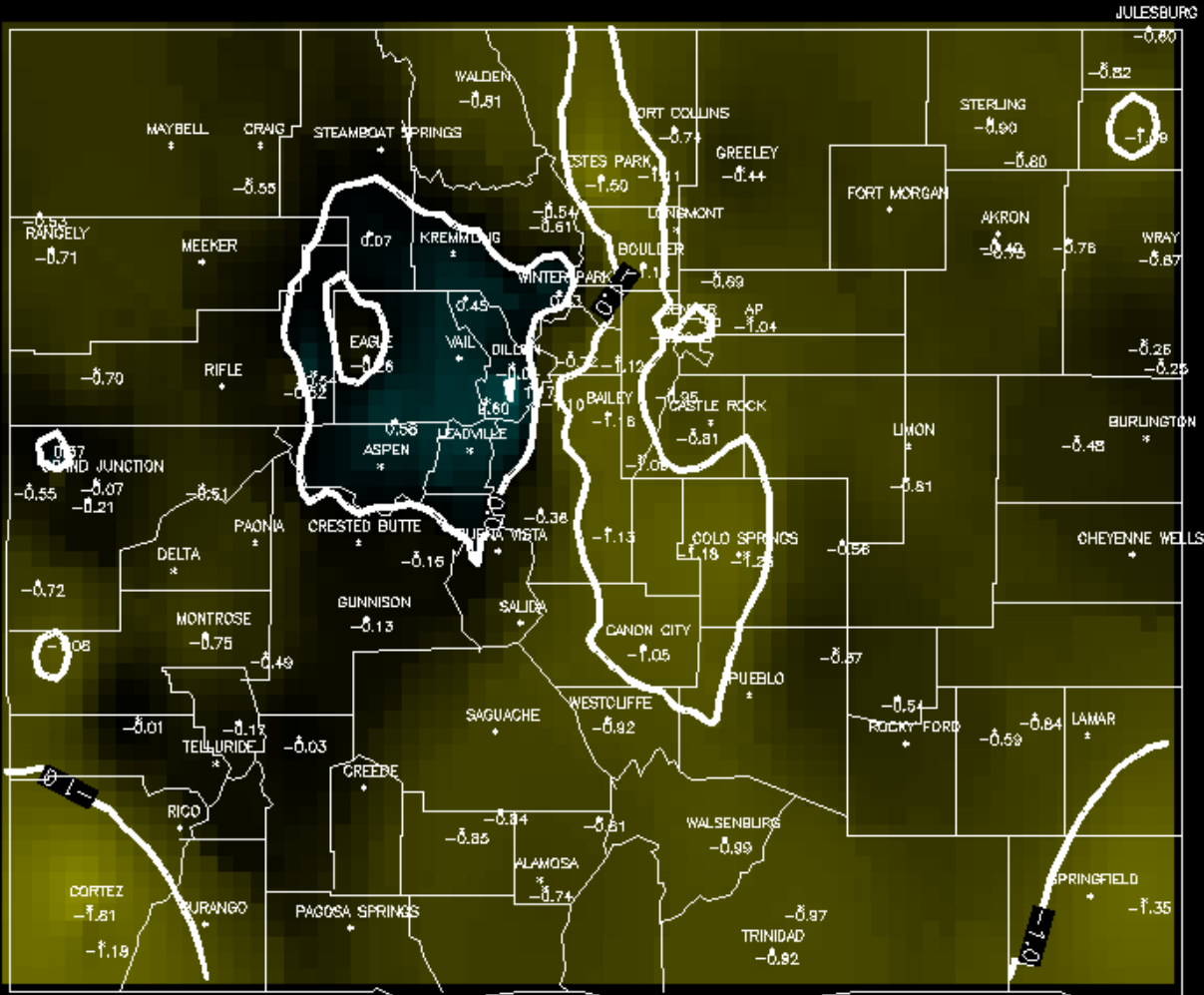
Produced by:
Colorado Climate Center
Fort Collins, CO

Projected Conditions at 0.2 Probability Level

12 Month SPI at 6 months

Colorado

2/2006 12 mon. SPI – Projected 6 mon. at P=0.20

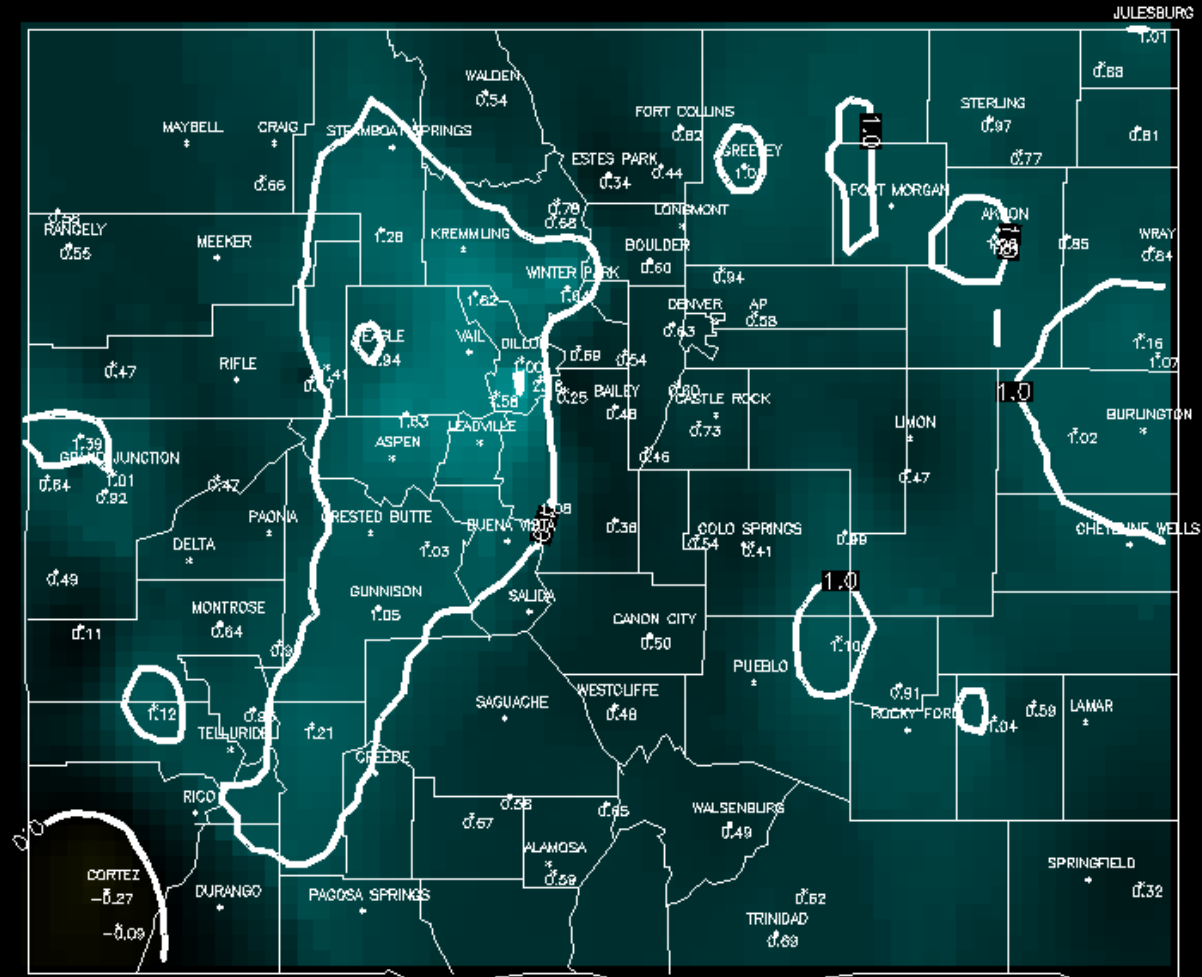


Produced by:
Colorado Climate Center
Fort Collins, CO

Projected Conditions at 0.8 Probability Level 12 Month SPI at 6 months

Colorado

2/2006 12 mon. SPI – Projected 6 mon. at P=0.80



100% < 2.0
82% < 1.0
2% < 0.0

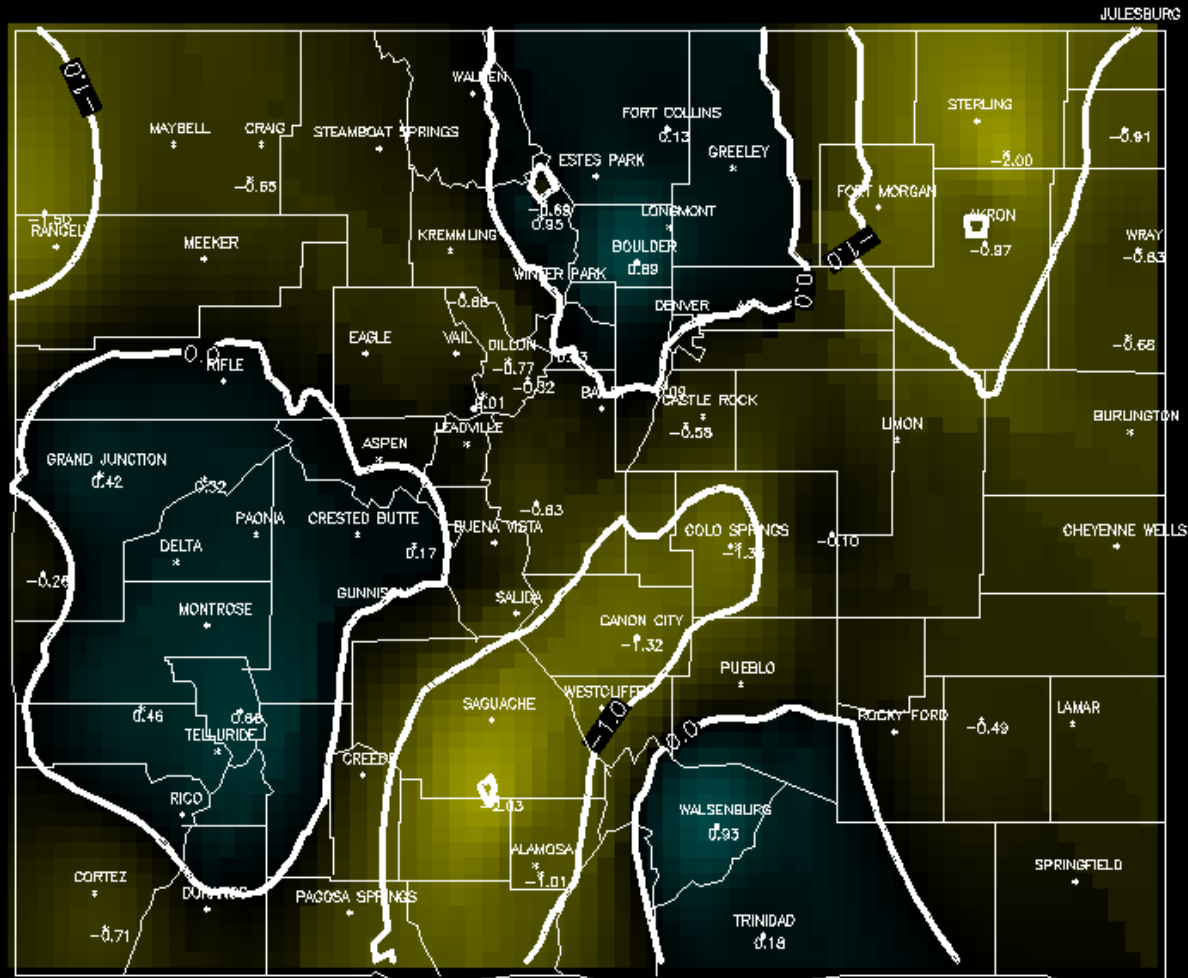
0% < -1.0
0% < -2.0
0% < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

48 Month SPI

Colorado

2/2006 48 mon. SPI



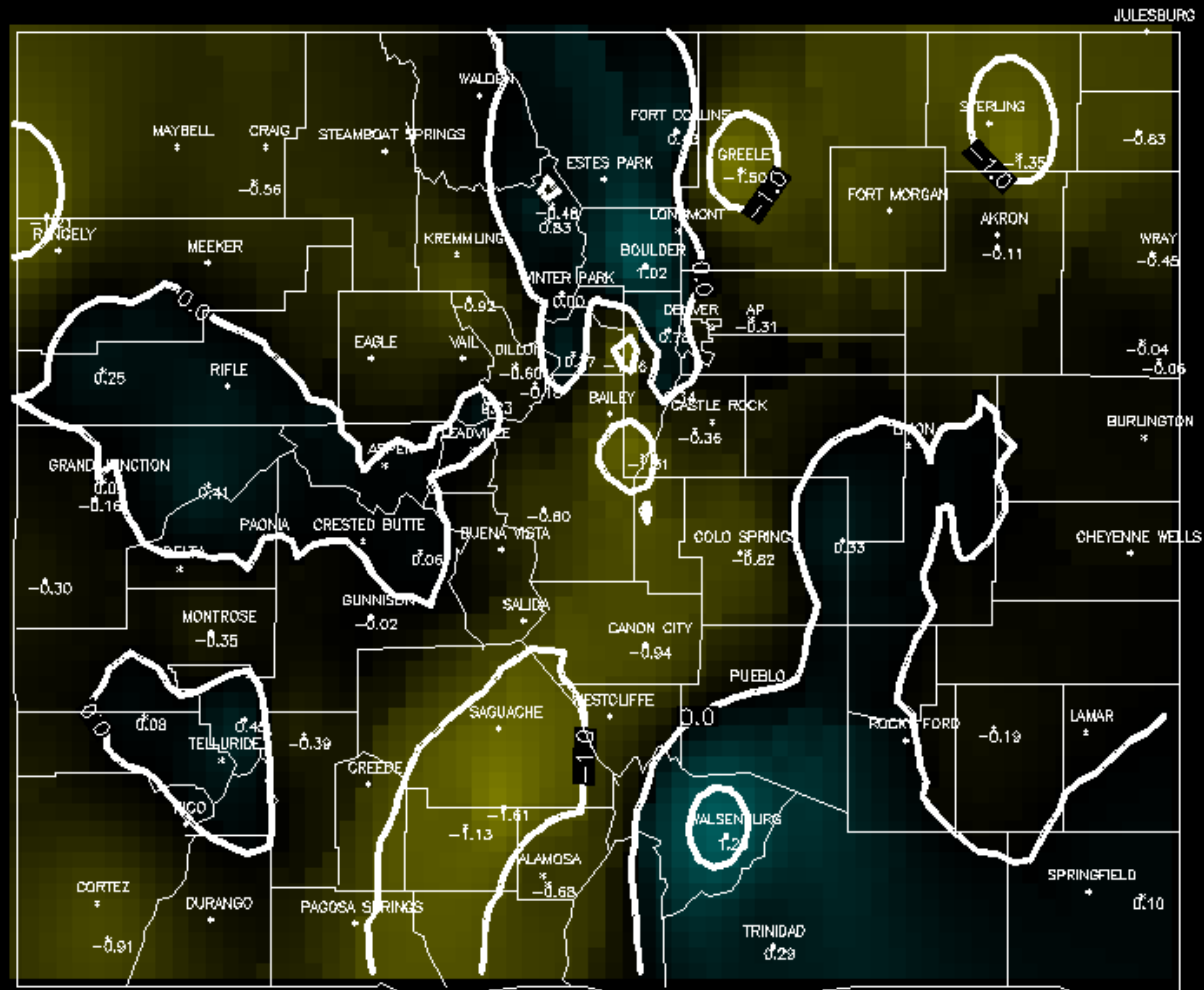
Produced by:
Colorado Climate Center
Fort Collins, CO

Projected Conditions at 0.2 Probability Level

48 Month SPI at 12 months

Colorado

2/2006 48 mon. SPI – Projected 12 mon. at P=0.20



100% < 2.0
 100% < 1.0
 71% < 0.0

8% < -1.0
 0% < -2.0
 0% < -3.0

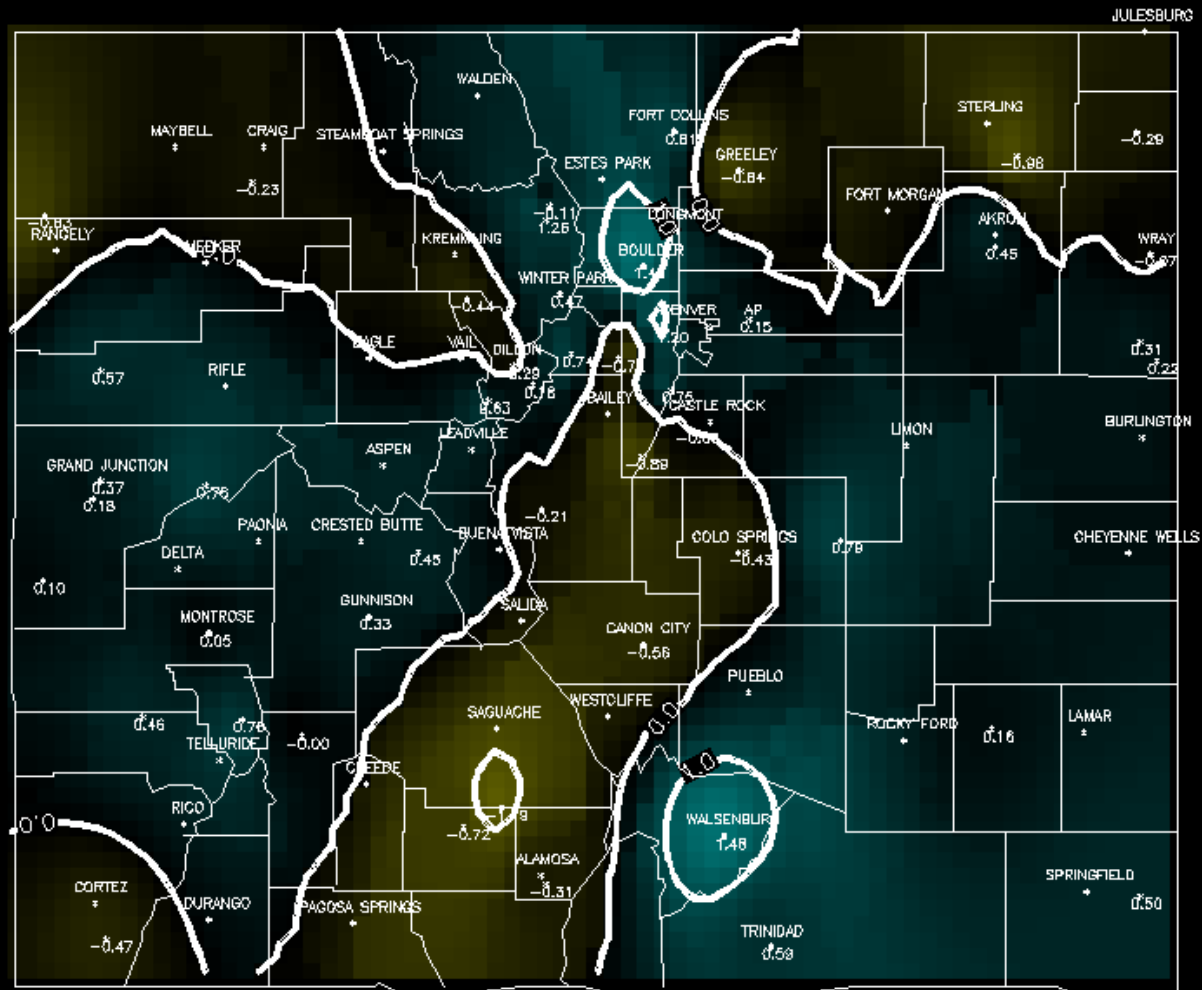
Produced by:
 Colorado Climate Center
 Fort Collins, CO

Projected Conditions at 0.5 Probability Level

48 Month SPI at 12 months

Colorado

2/2006 48 mon. SPI - Projected 12 mon. at P=0.50



100 % < 2.0	0 % < -1.0
88 % < 1.0	0 % < -2.0
36 % < 0.0	0 % < -3.0

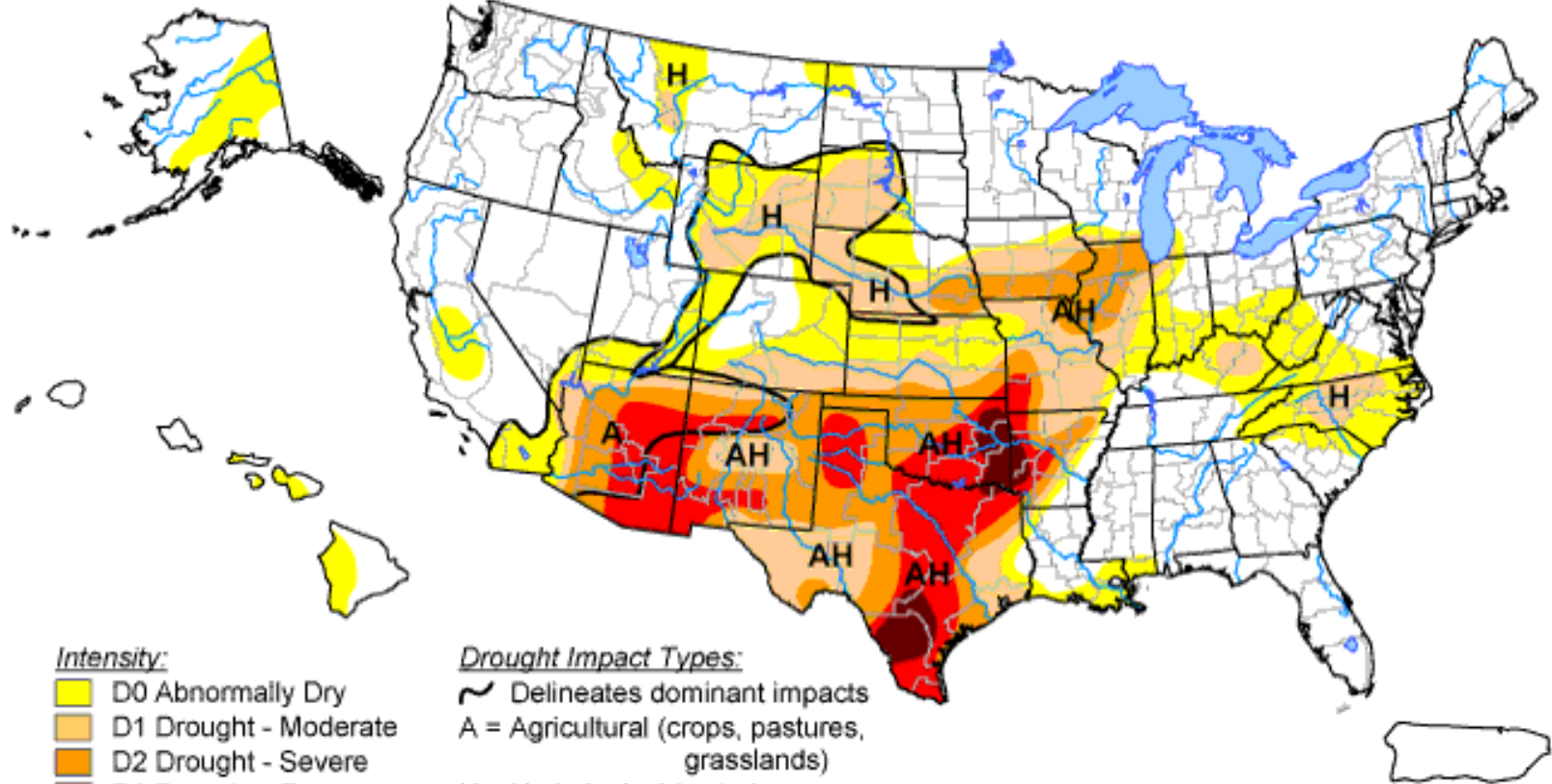
Produced by:
Colorado Climate Center
Fort Collins, CO

Drought Monitor Map






U.S. Drought Monitor

March 7, 2006


Valid 7 a.m. 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.

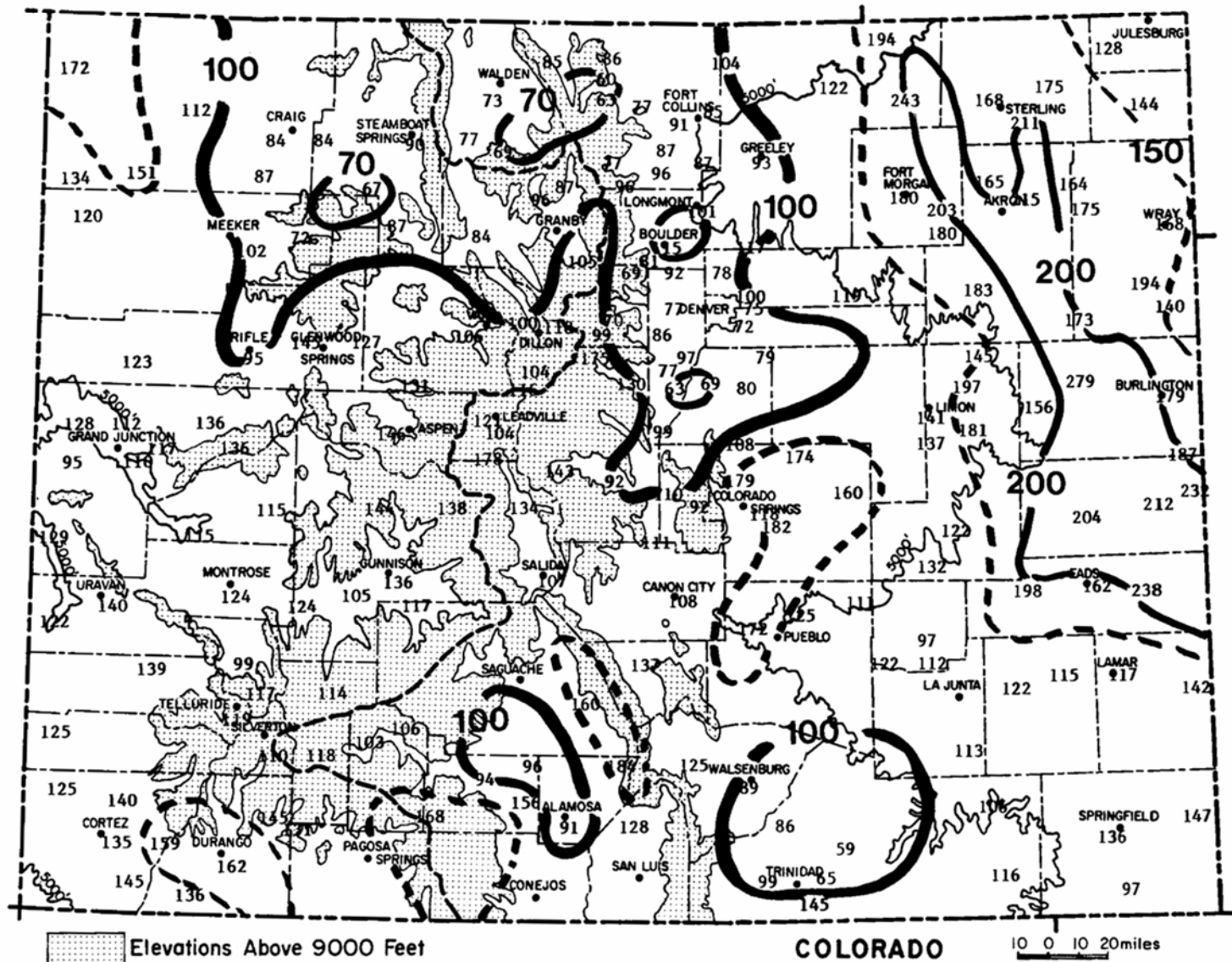
<http://drought.unl.edu/dm>



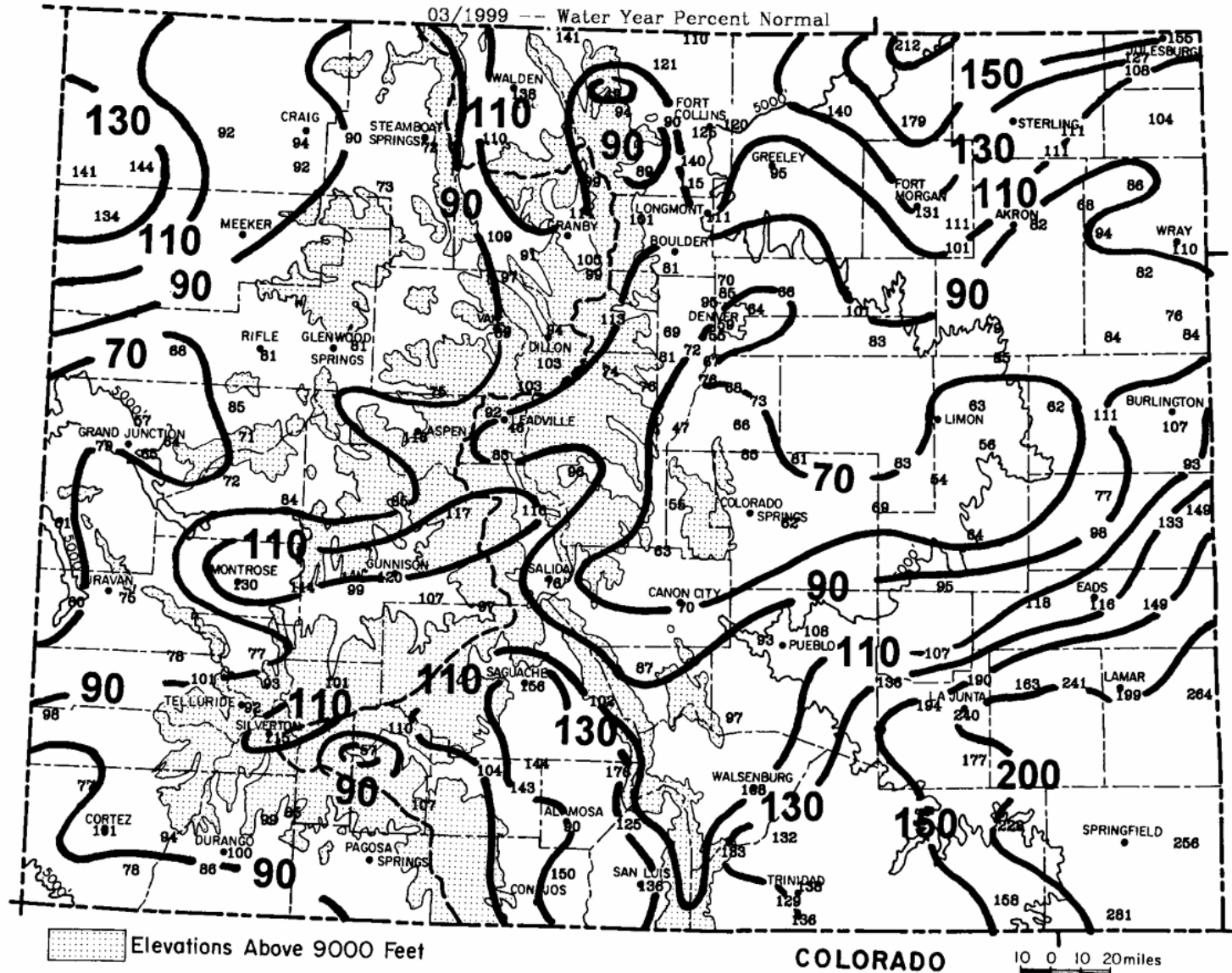
Released Thursday, March 9, 2006

Author: Brian Fuchs, National Drought Mitigation Center

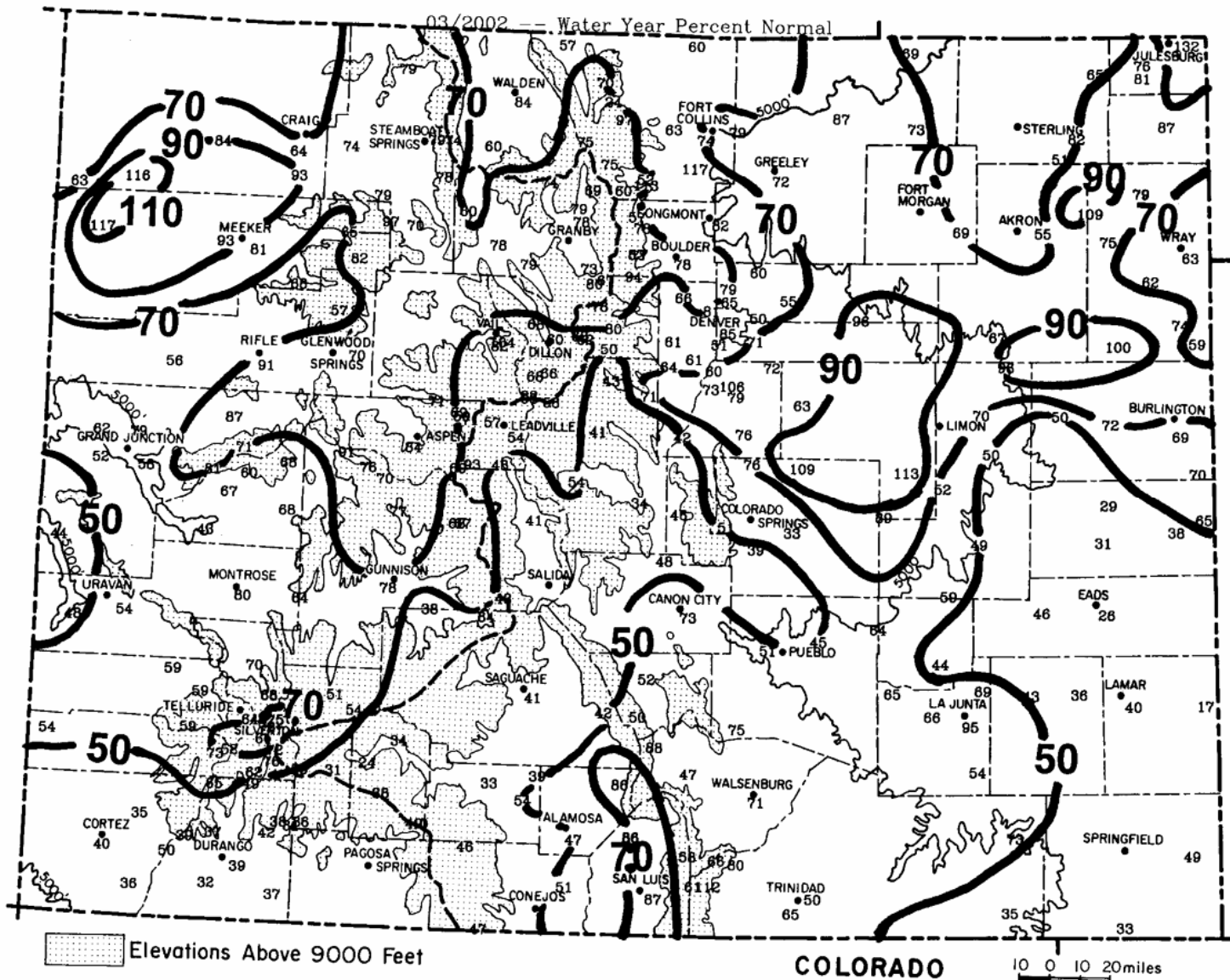
Oct 94 – Mar 95 precipitation percent 30-yr average.



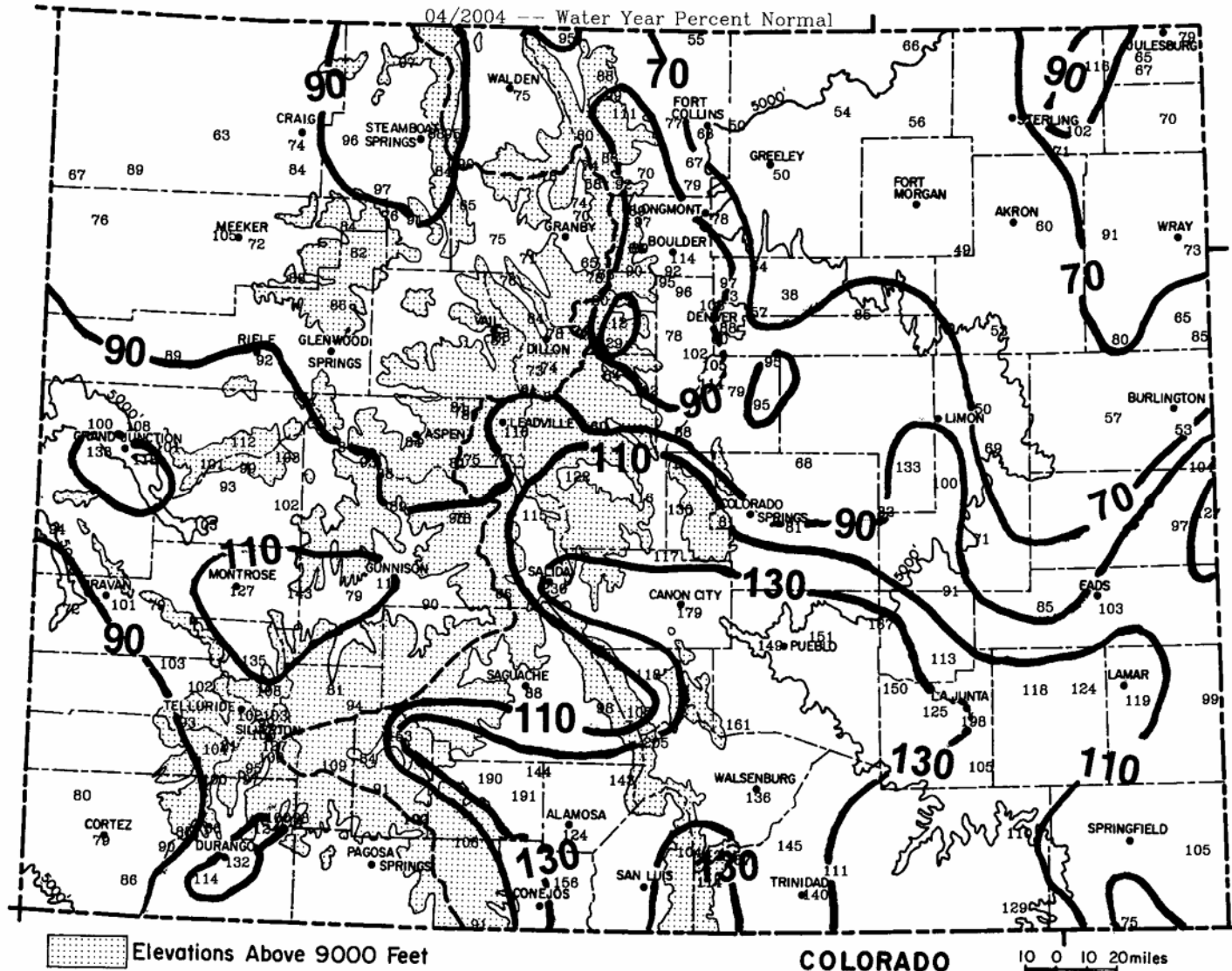
Oct 98 - Mar 99 precipitation percent 30-yr average.



Oct 01 - Mar 02 precipitation percent 30-yr average.



Oct 03 - Apr 04 precipitation percent 30-yr average.



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”**

