

Climate Update

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

**Presented to Water Availability
Task Force, Denver, CO, February 20, 2008**

Prepared by Odie Bliss

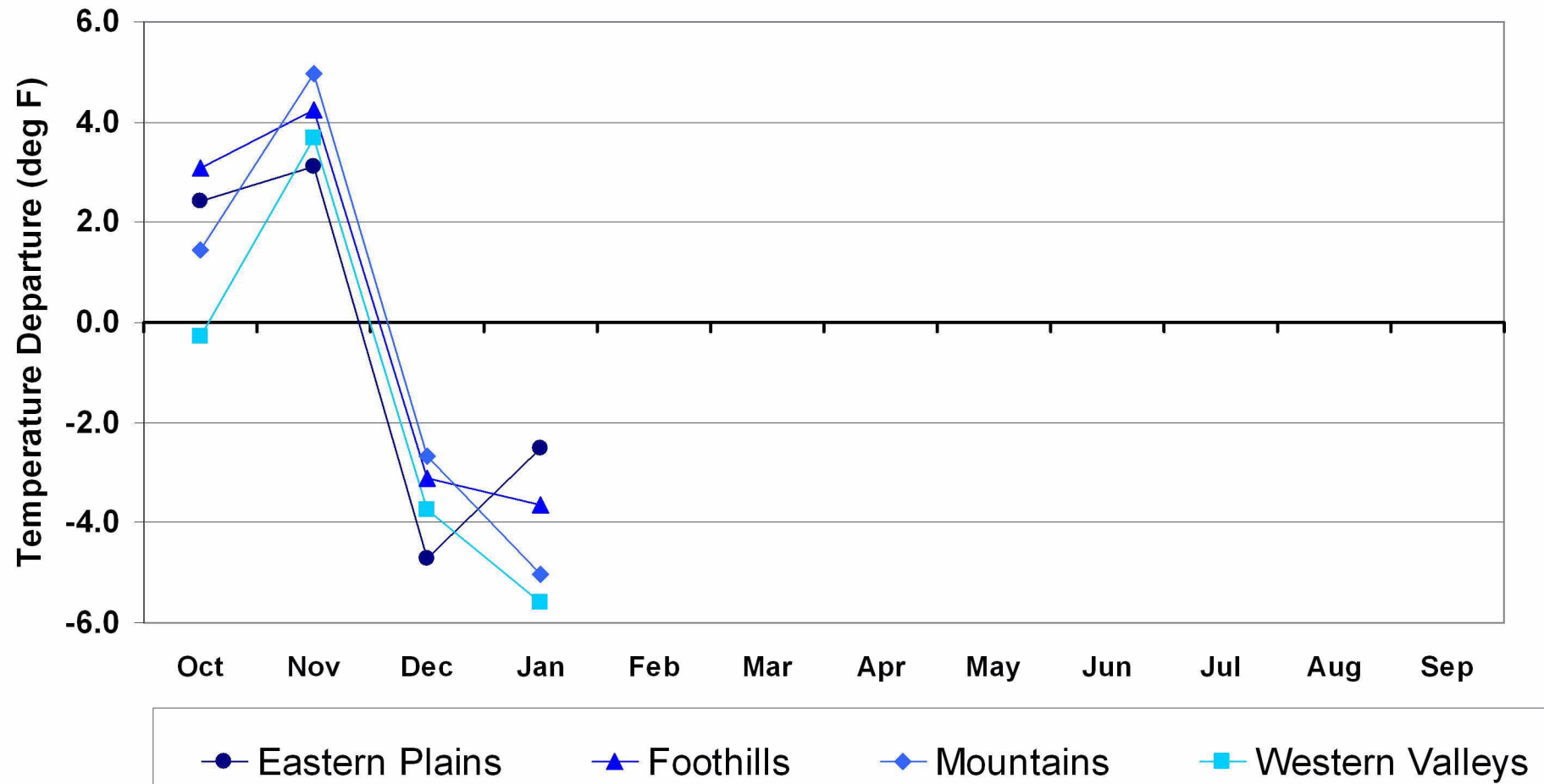
Photo by Colorado Avalanche Information Center



**Colorado
State
University**
Knowledge to Go Places

Water Year 2008 Temperature Departures

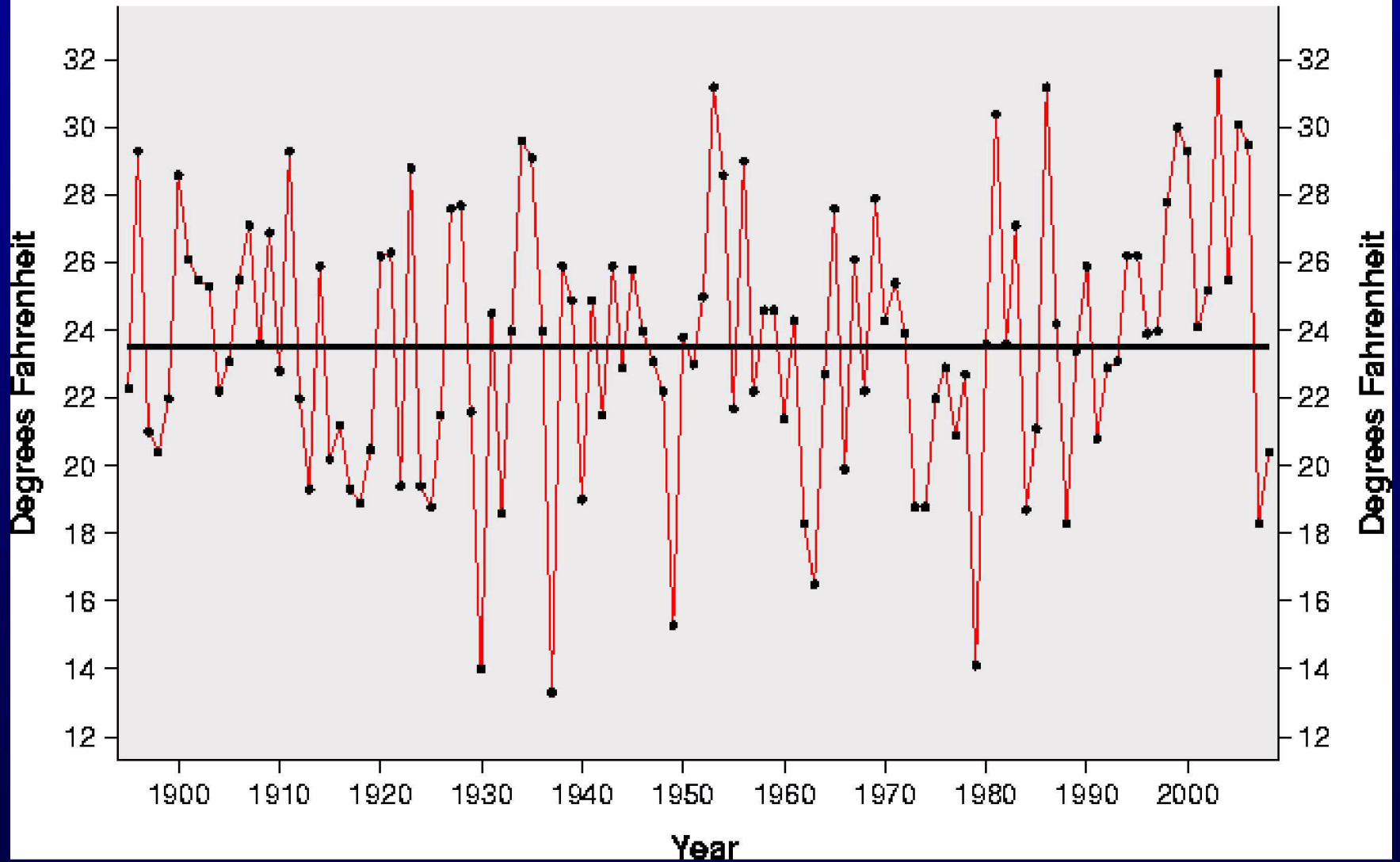
Water Year 2008



January Average Temperature History for Colorado (NCDC)

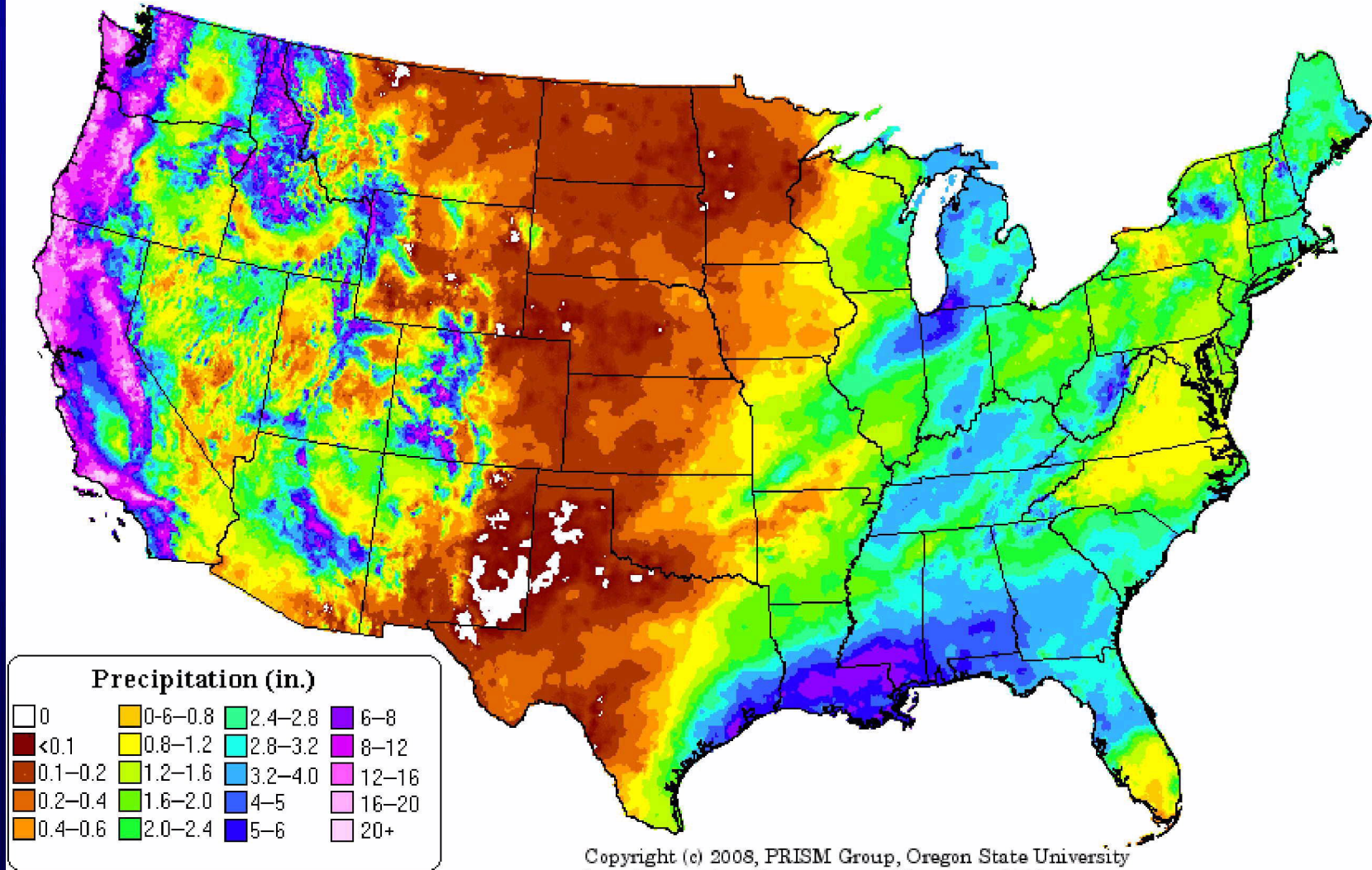
— Actual Temperature
— Average Temperature

Period of record 1895-2008



January 2008 Precipitation (inches)

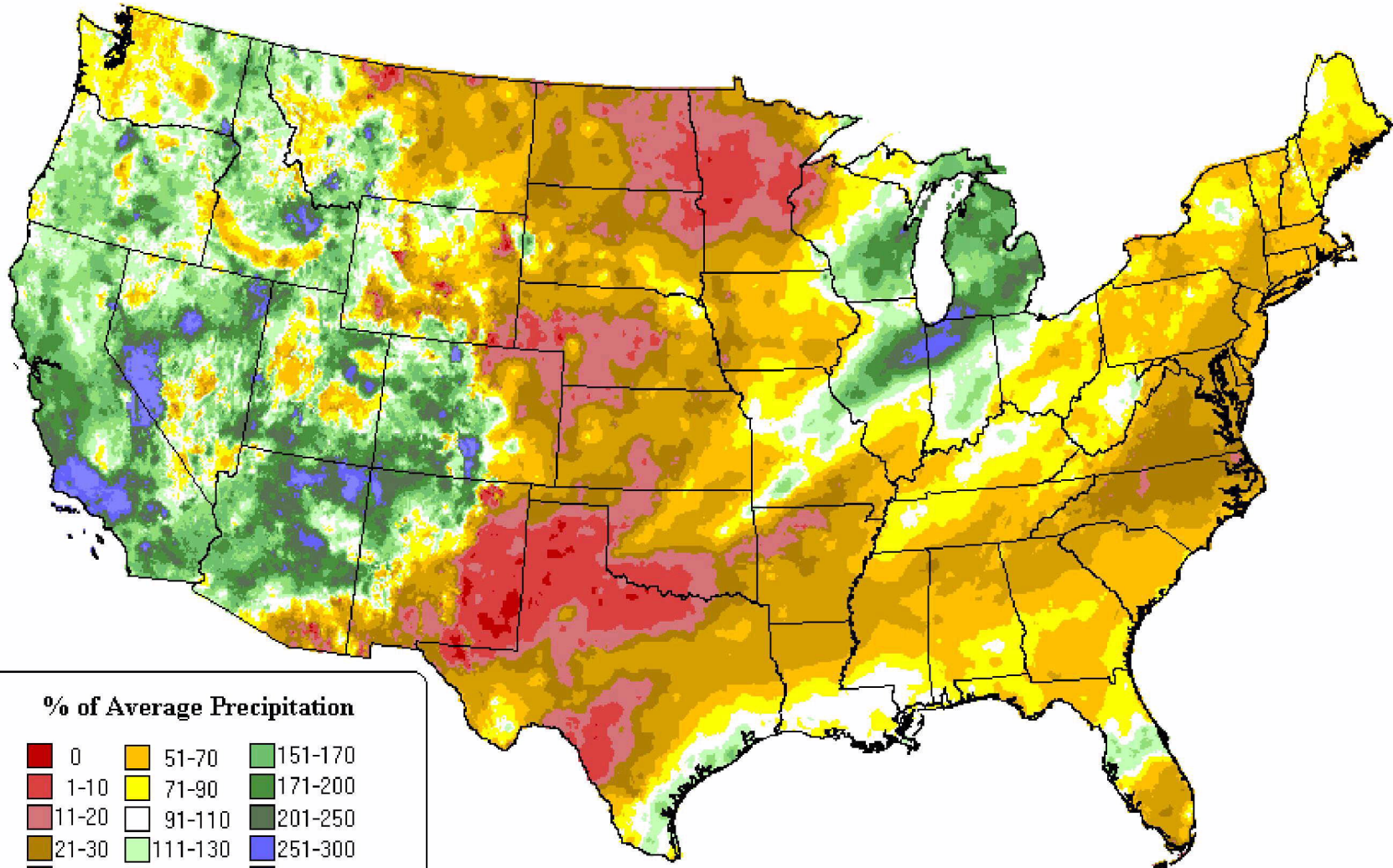
Precipitation: Jan 2008
Provisional Data



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<http://www.prismclimate.org> - Map created Feb 12 2008

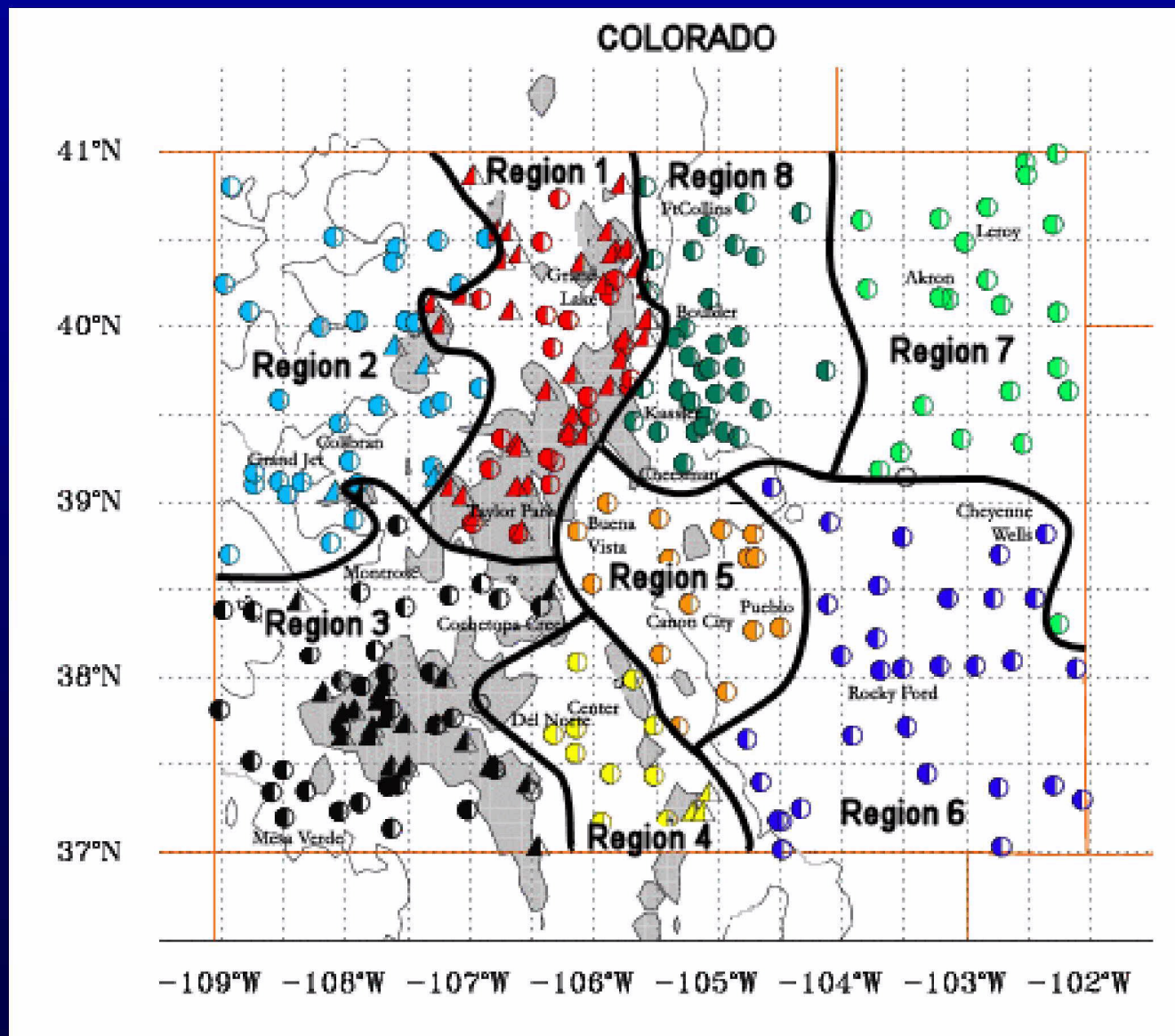
January 2008 Percent of Average (Prism)

1-month Percent of Average Precipitation: Jan 2008
Provisional Data



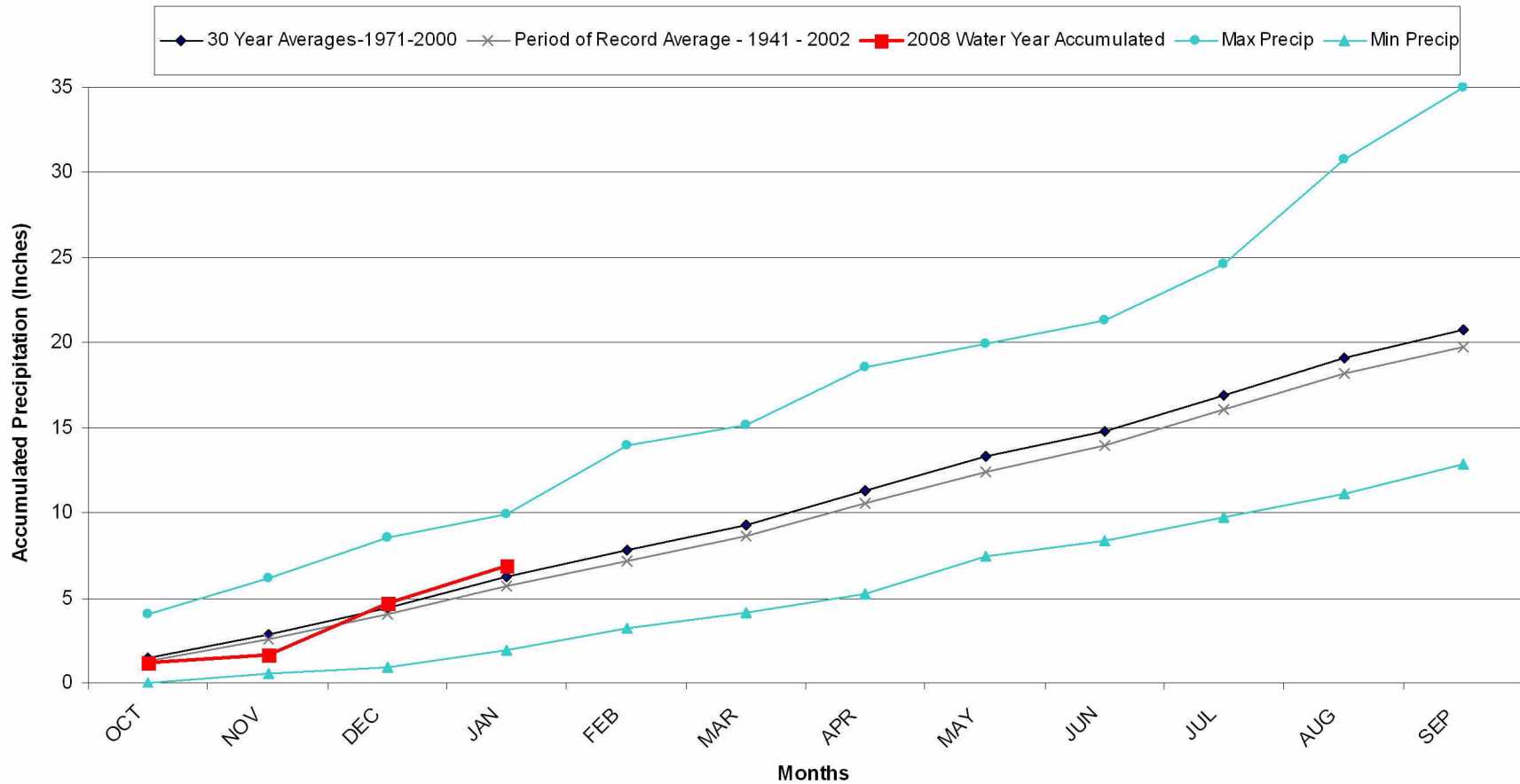
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<http://www.prismclimate.org> - Map created Feb 12 2008

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



Division 1 – Grand Lake 1NW

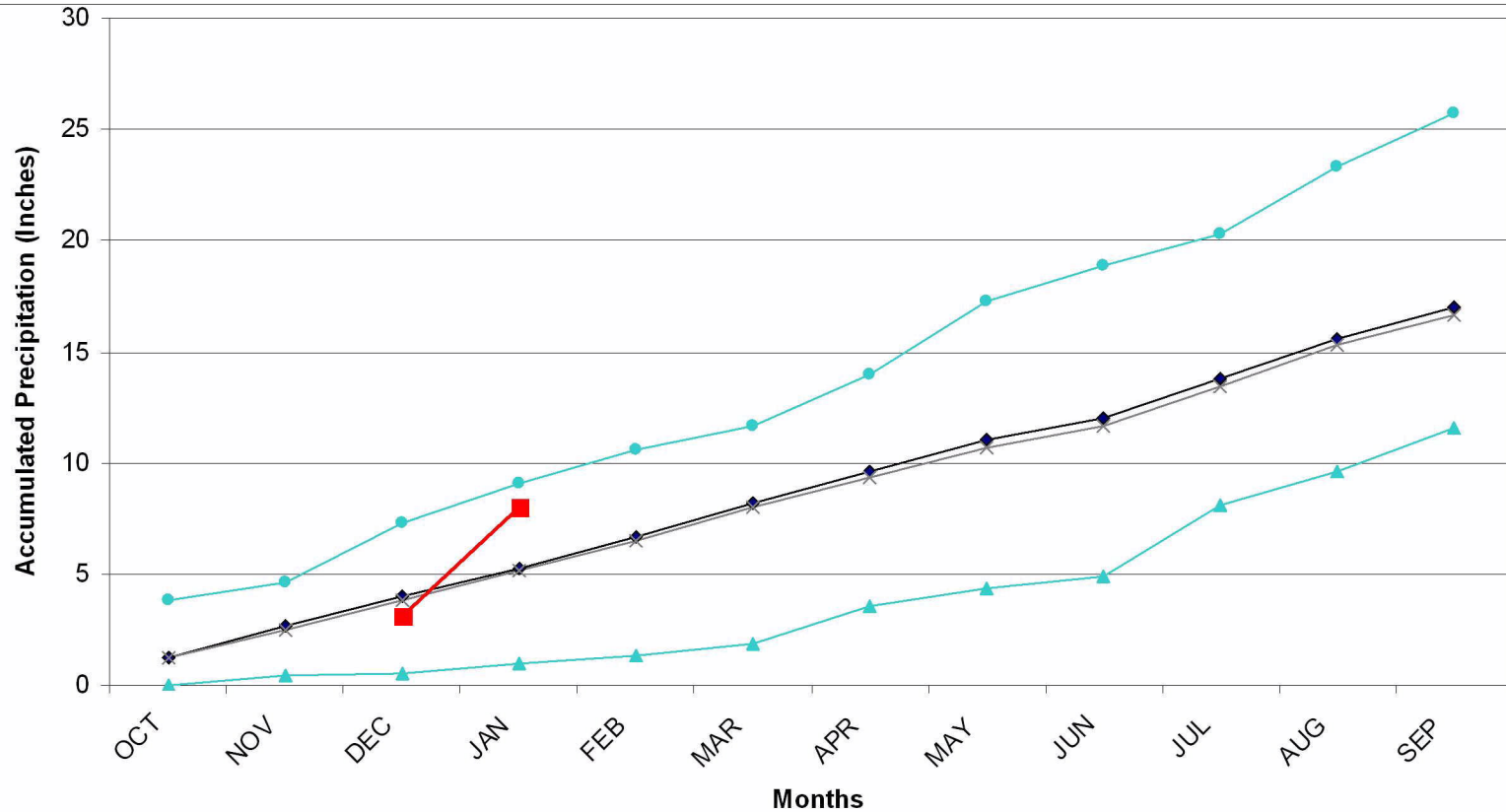
Grand Lake 1 NW 2008 Water Year



Division 1 – Taylor Park

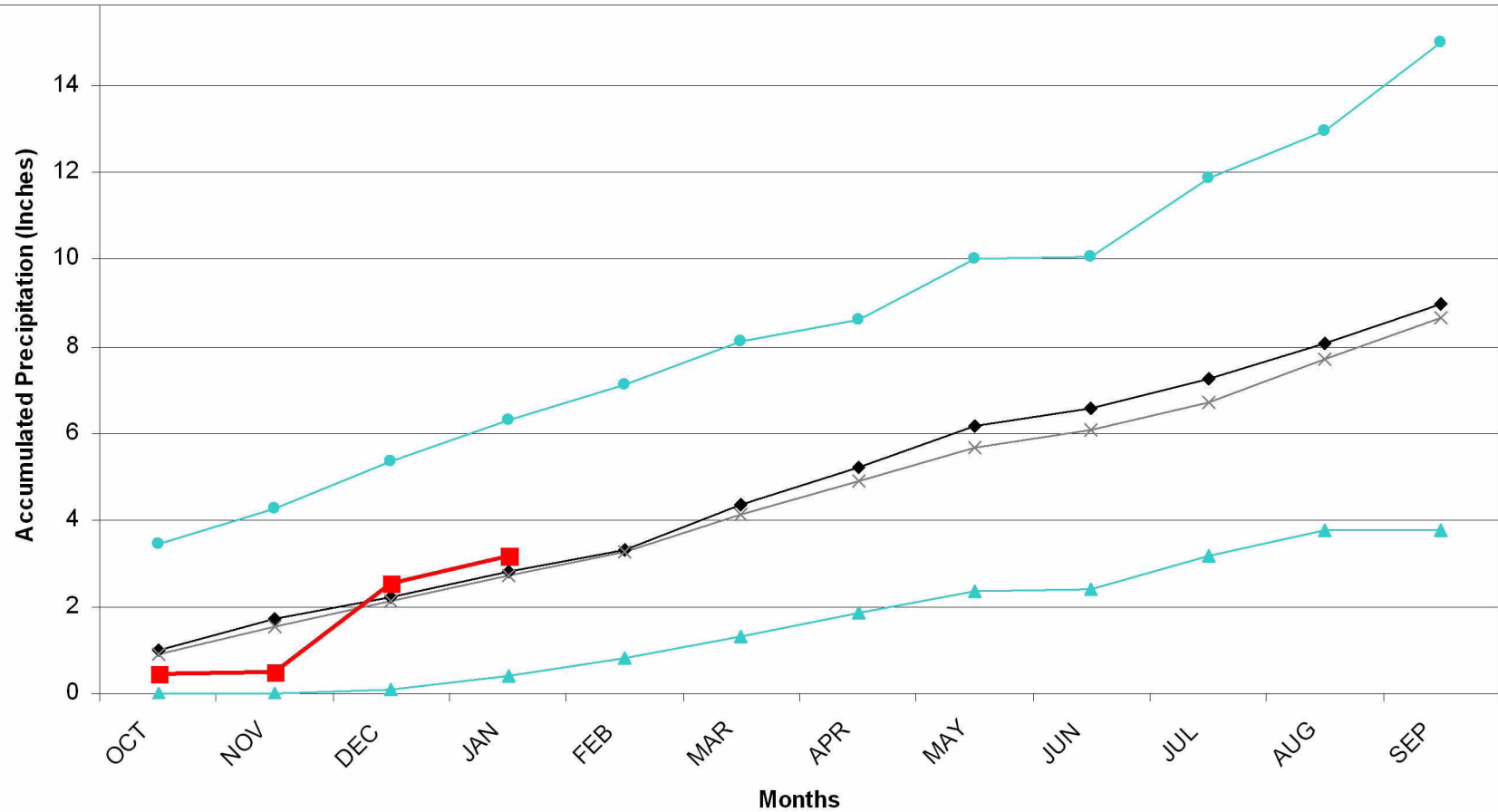
Taylor Park 2008 Water Year

◆ 30 Year Averages-1971-2000 ✕ Period of Record Average - 1942 - 2002 ■ 2008 Water Year Accumulated
● Max Precip ▲ Min Precip



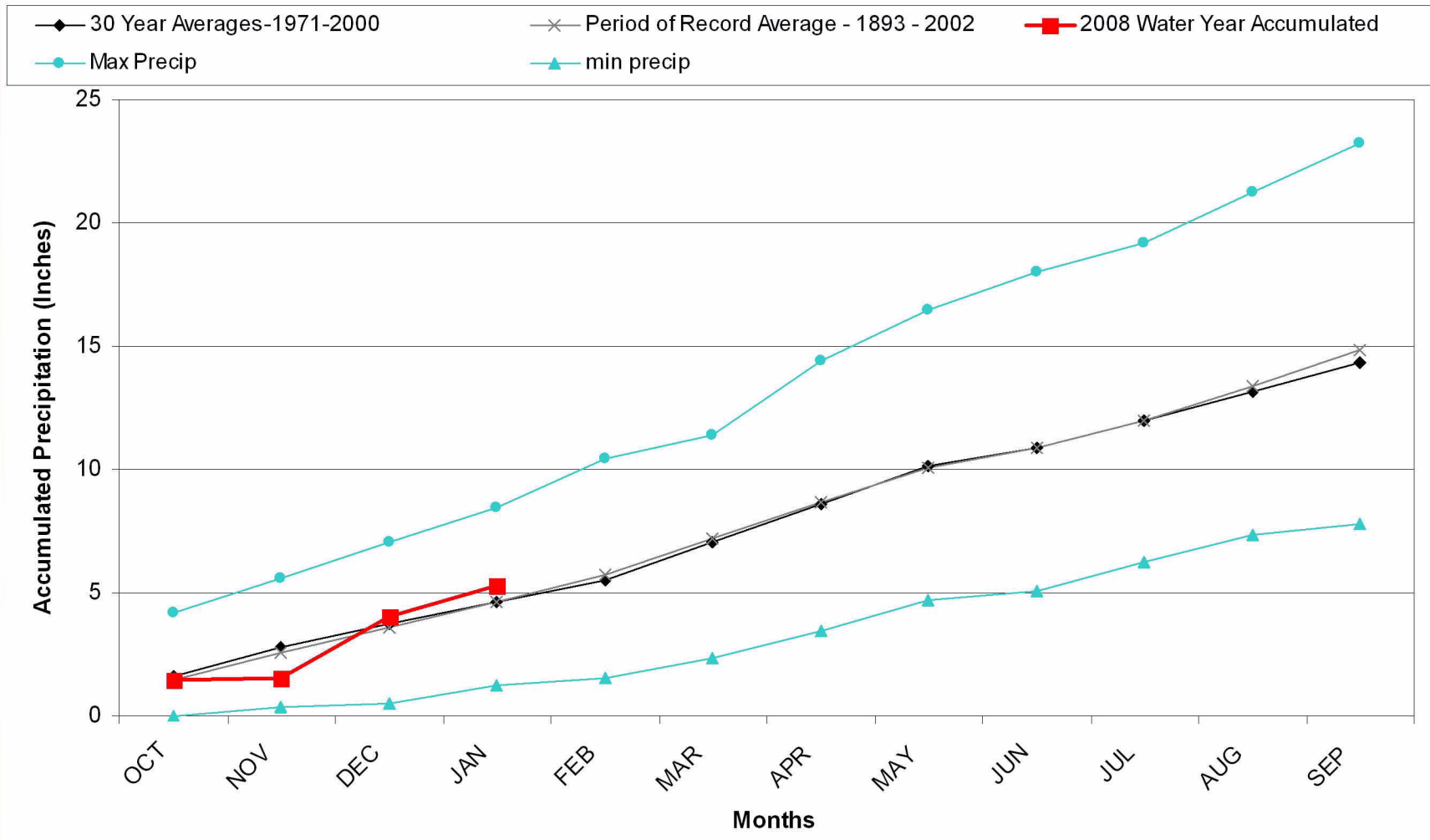
Division 2 – Grand Junction

Grand Junction WSFO 2008 Water Year



Division 2 – Collbran

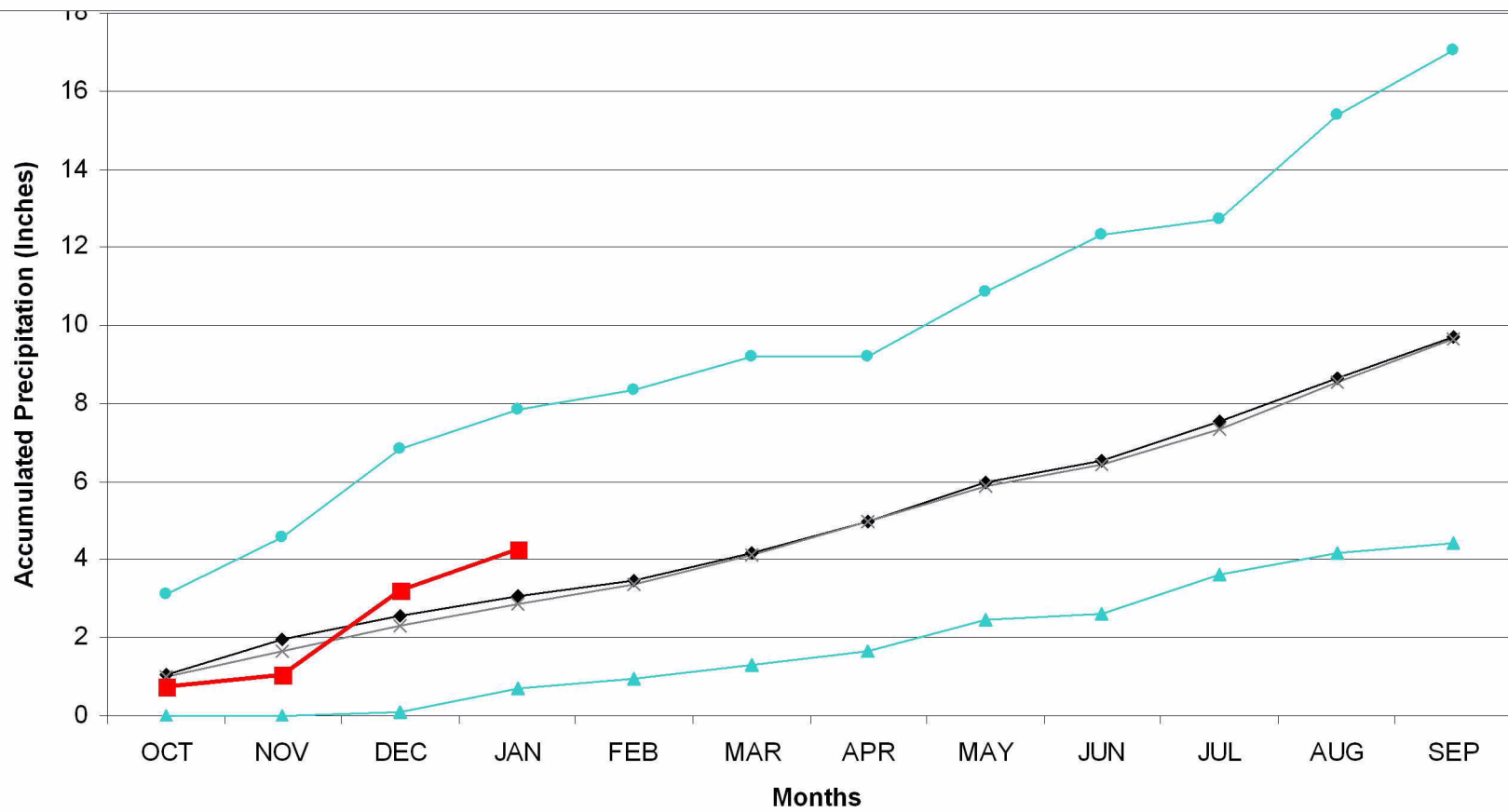
Collbran 2SW 2008 Water Year



Division 3 – Montrose

Montrose #2 2008 Water Year

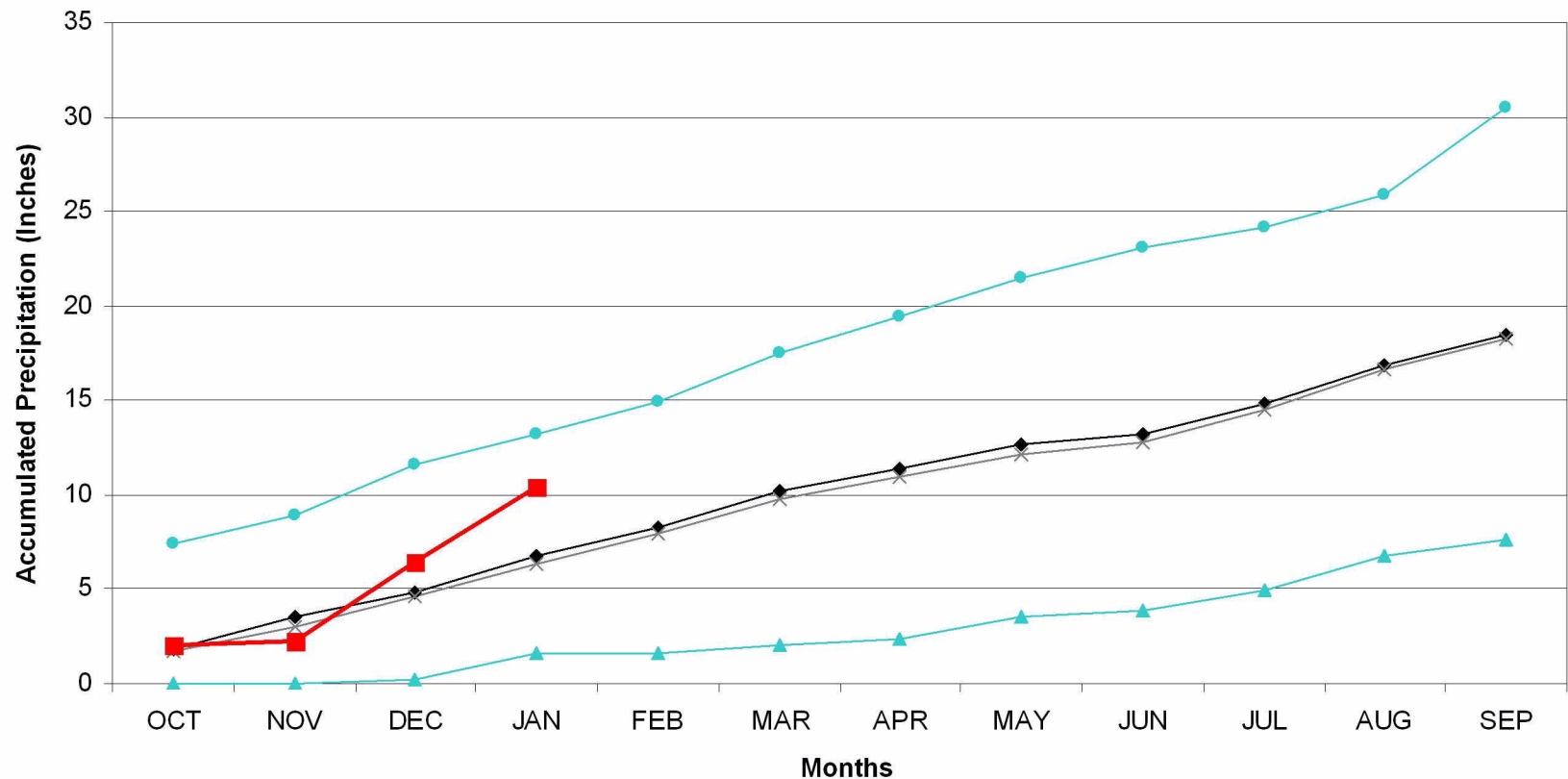
◆ 30 Year Averages-1971-2000 ✕ Period of Record Average - 1893- 2002 ■ 2008 Water Year Accumulated ● Max Precip ▲ Mir



Division 3 – Mesa Verde

Mesa Verde NP 2008 Water Year

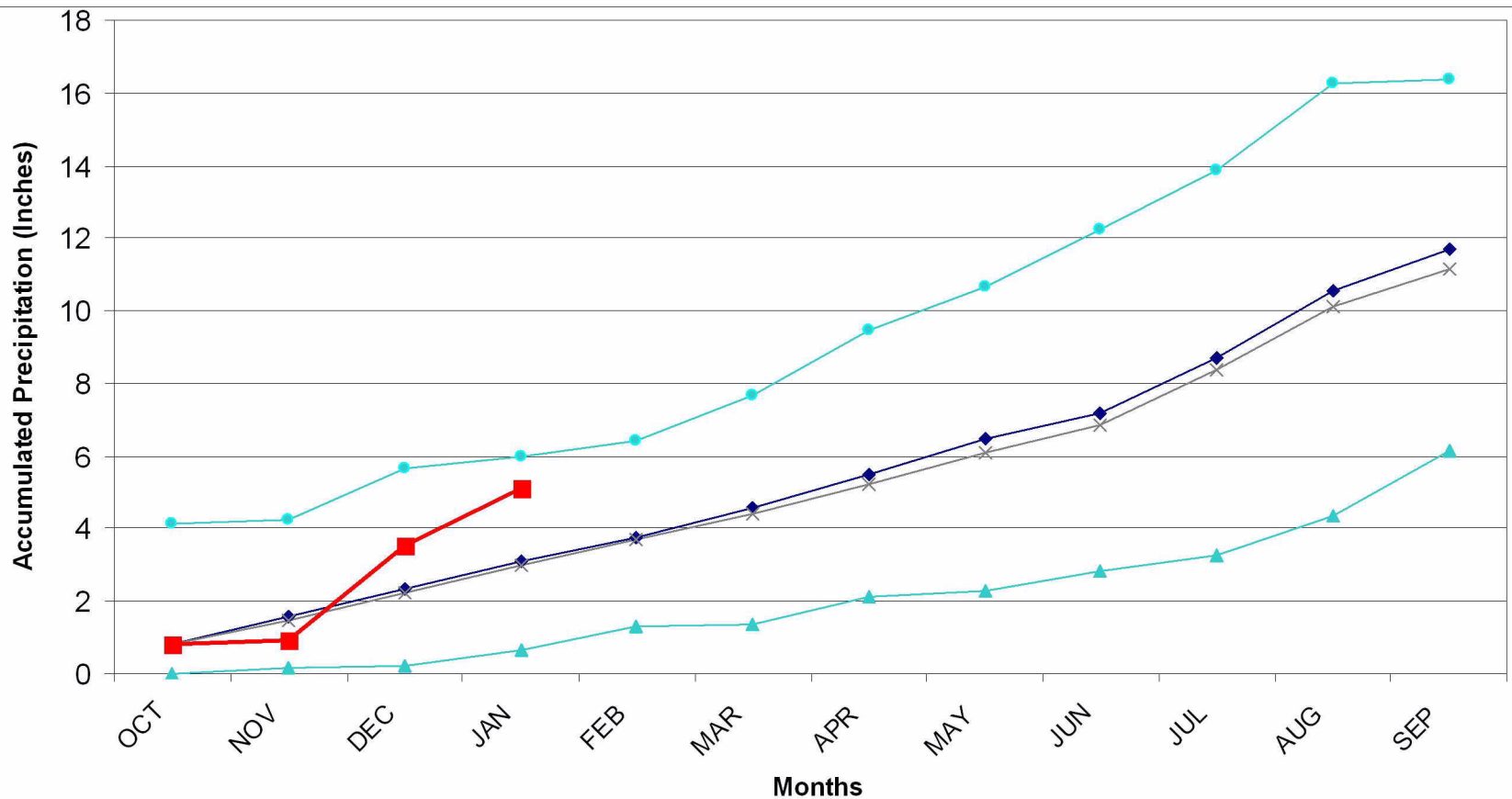
◆ 30 Year Averages-1971-2000 ✕ Period of Record Average - 1893- 2002 ■ 2008 Water Year Accumulated ● Max Precip ▲ Min



Division 3 – Cochetopa Creek

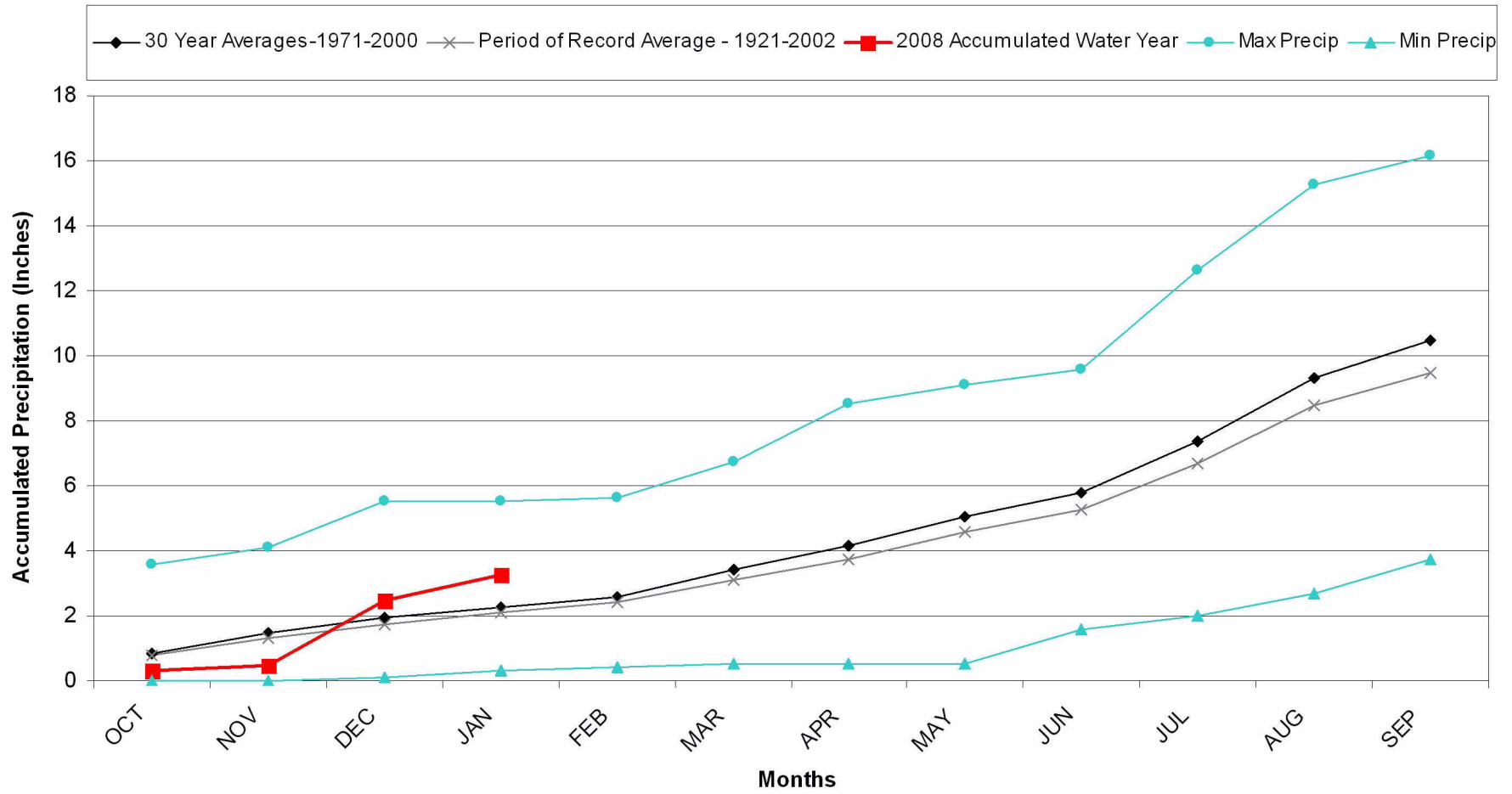
Cochetopa Creek 2008 Water Year

◆ 30 Year Averages-1971-2000 ✕ Period of Record Average - 1949 - 2002 ■ 2008 Water Year ● Max Precip ▲ Min Precip



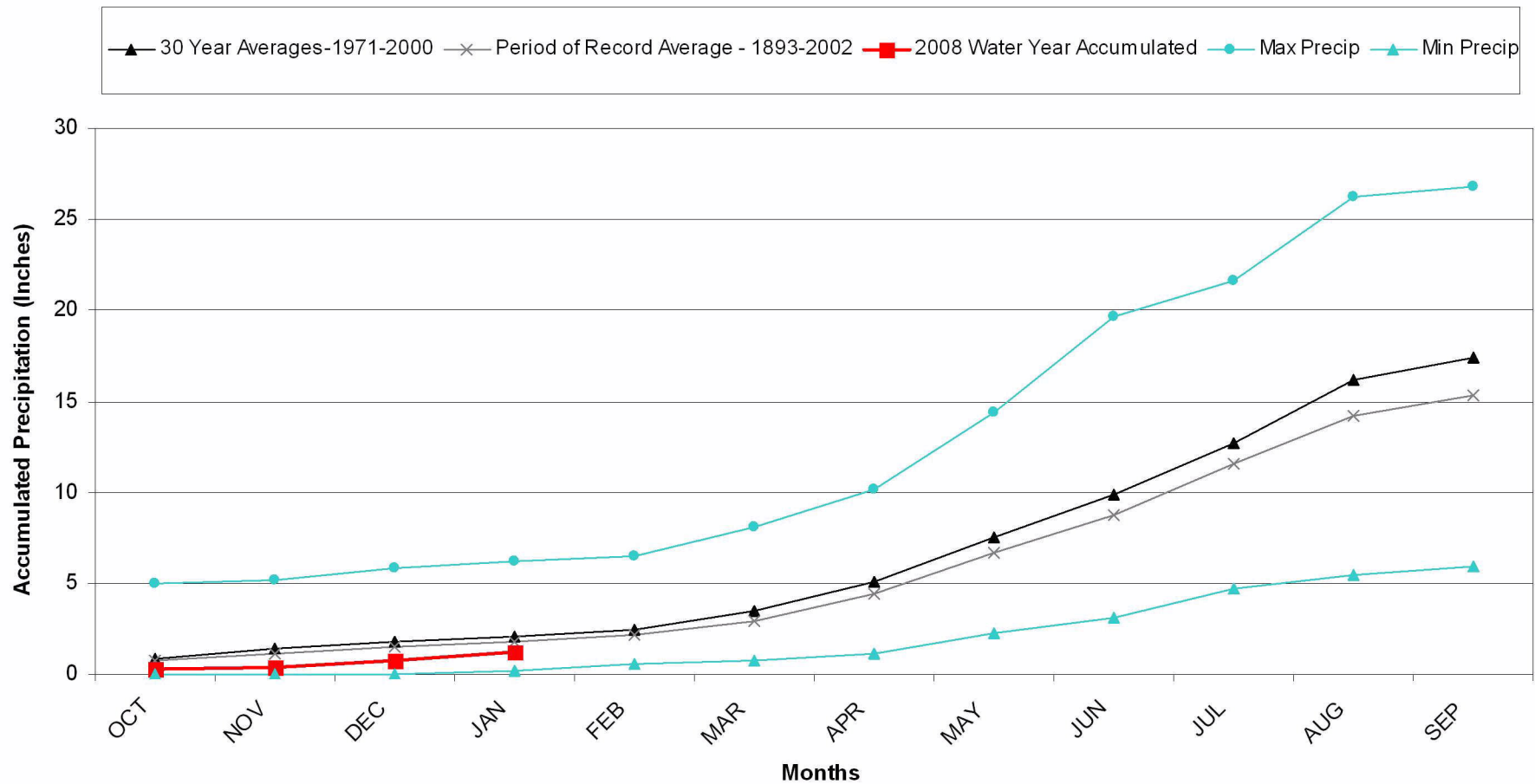
Division 4 – Del Norte

Del Norte 2008 Water Year



Division 5 – Colorado Springs

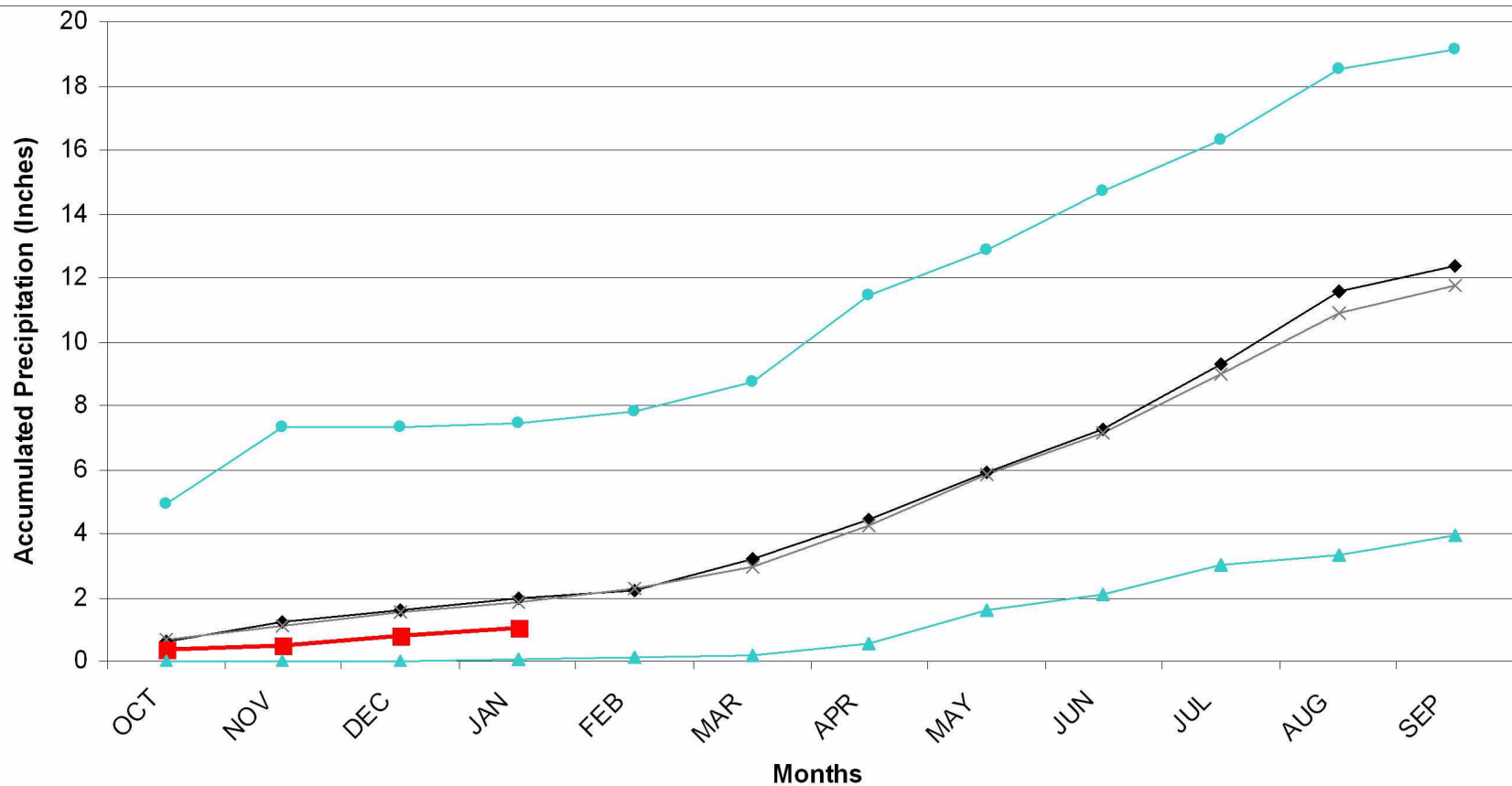
Colorado Springs 2008 Water Year



Division 5 – Pueblo

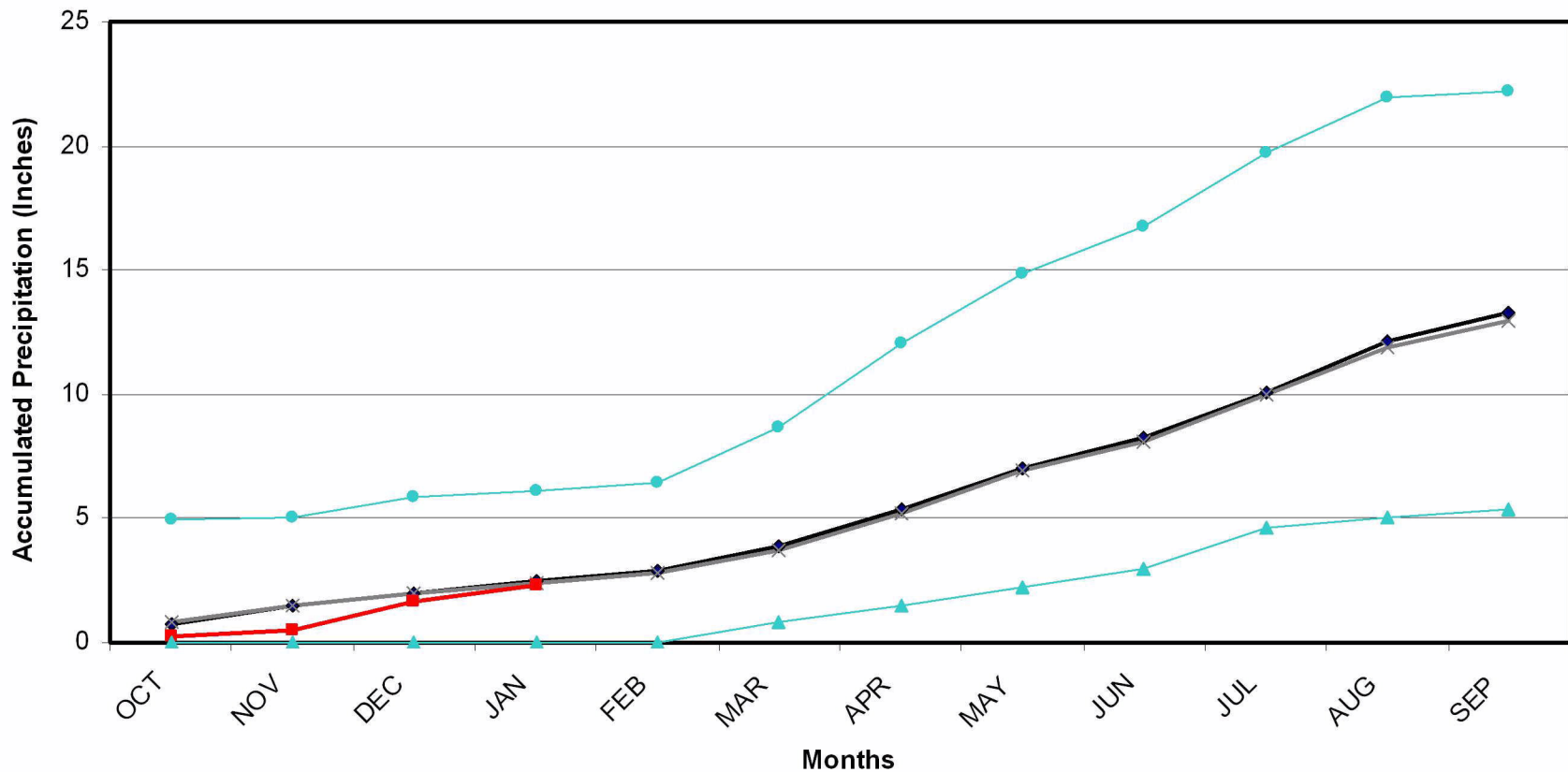
Pueblo WSO 2008 Water Year

◆ 30 Year Averages-1971-2000 ✕ Period of Record Average - 1874-2000 ■ 2008 Water Year Accumulated ● Max Precip ▲ Min



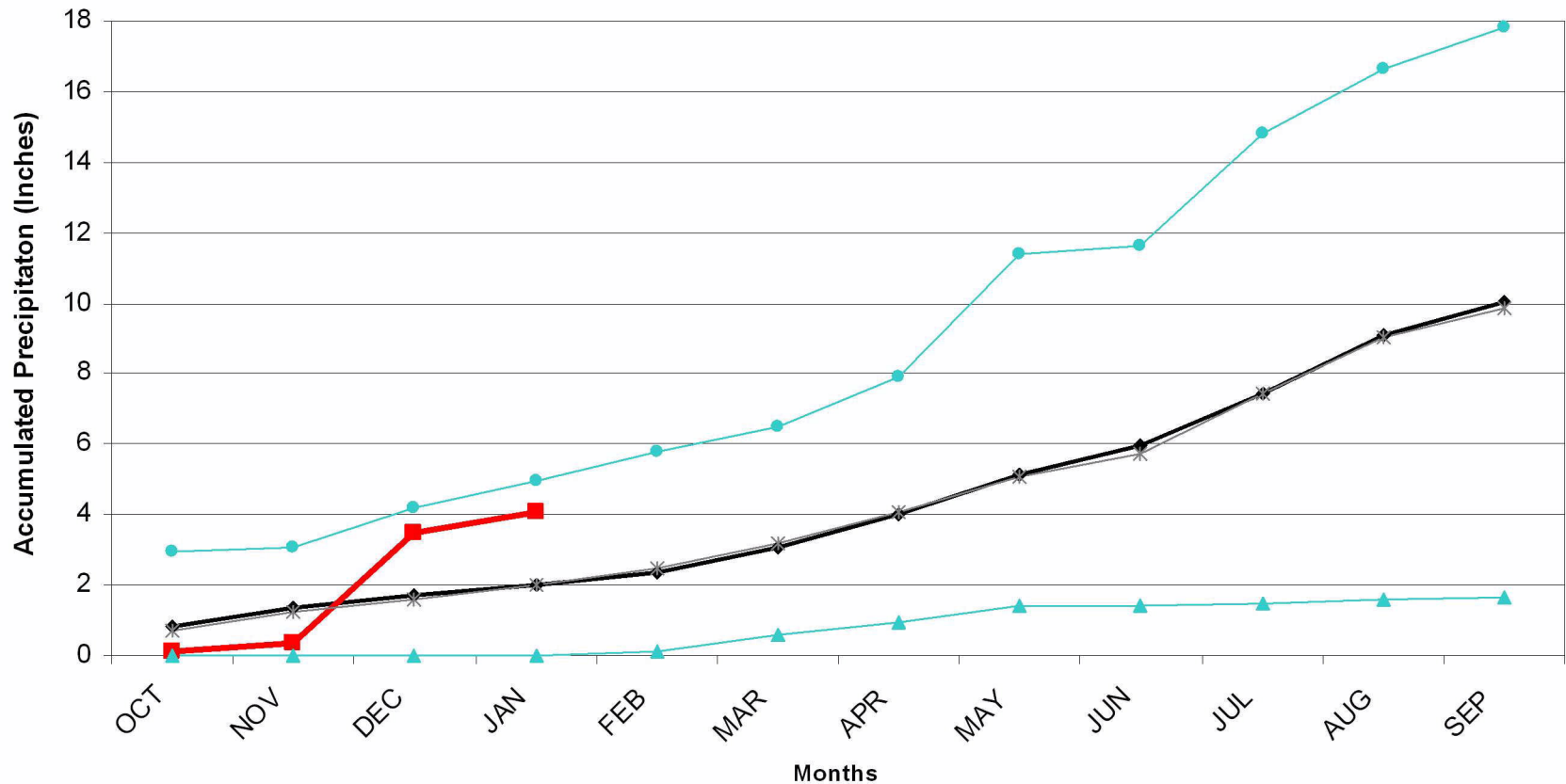
Division 5 – Canon City

Canon City 2008 Water Year



Division 5 – Buena Vista

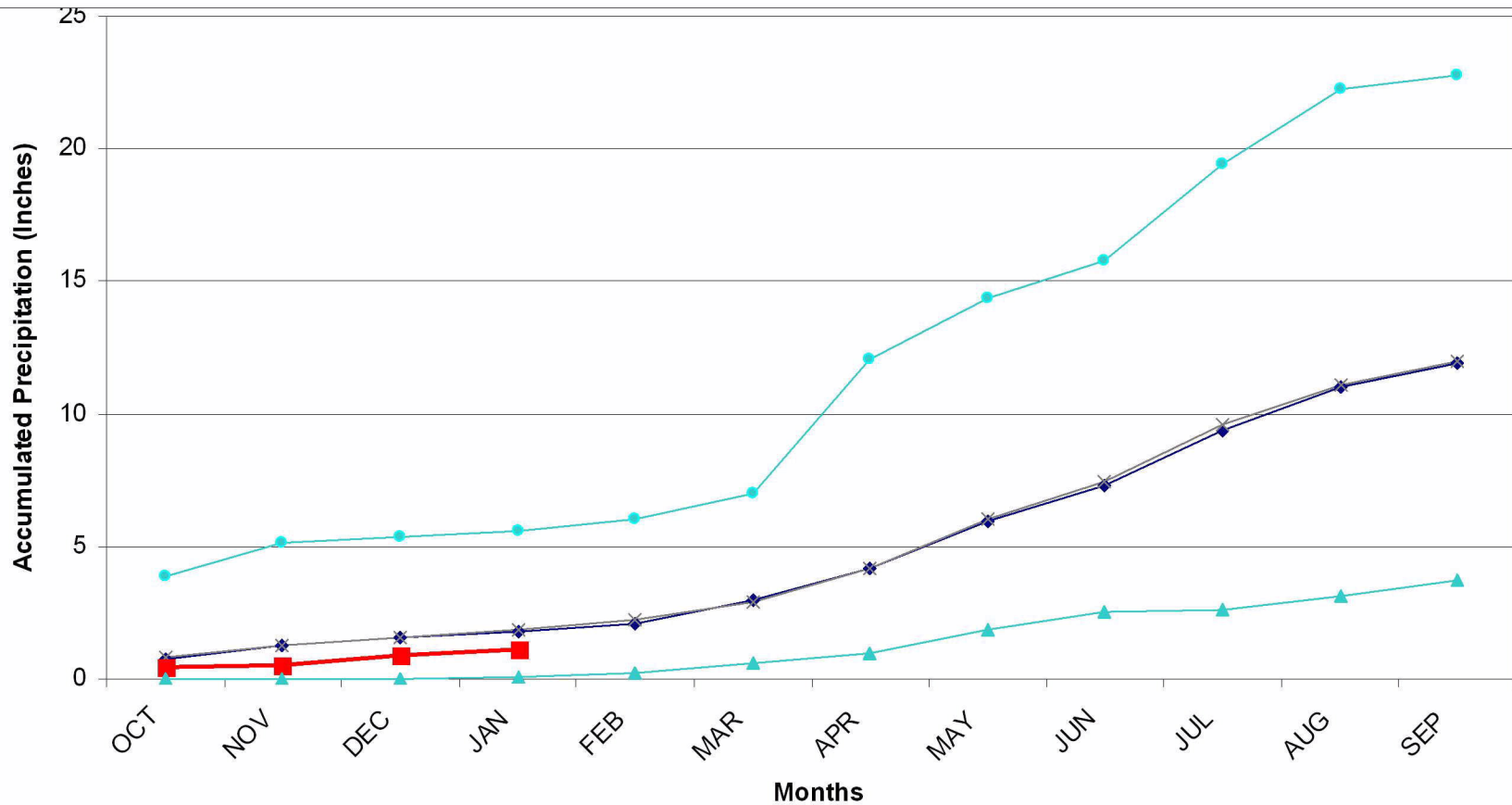
Buena Vista 2008 Water Year



Division 6 – Rocky Ford

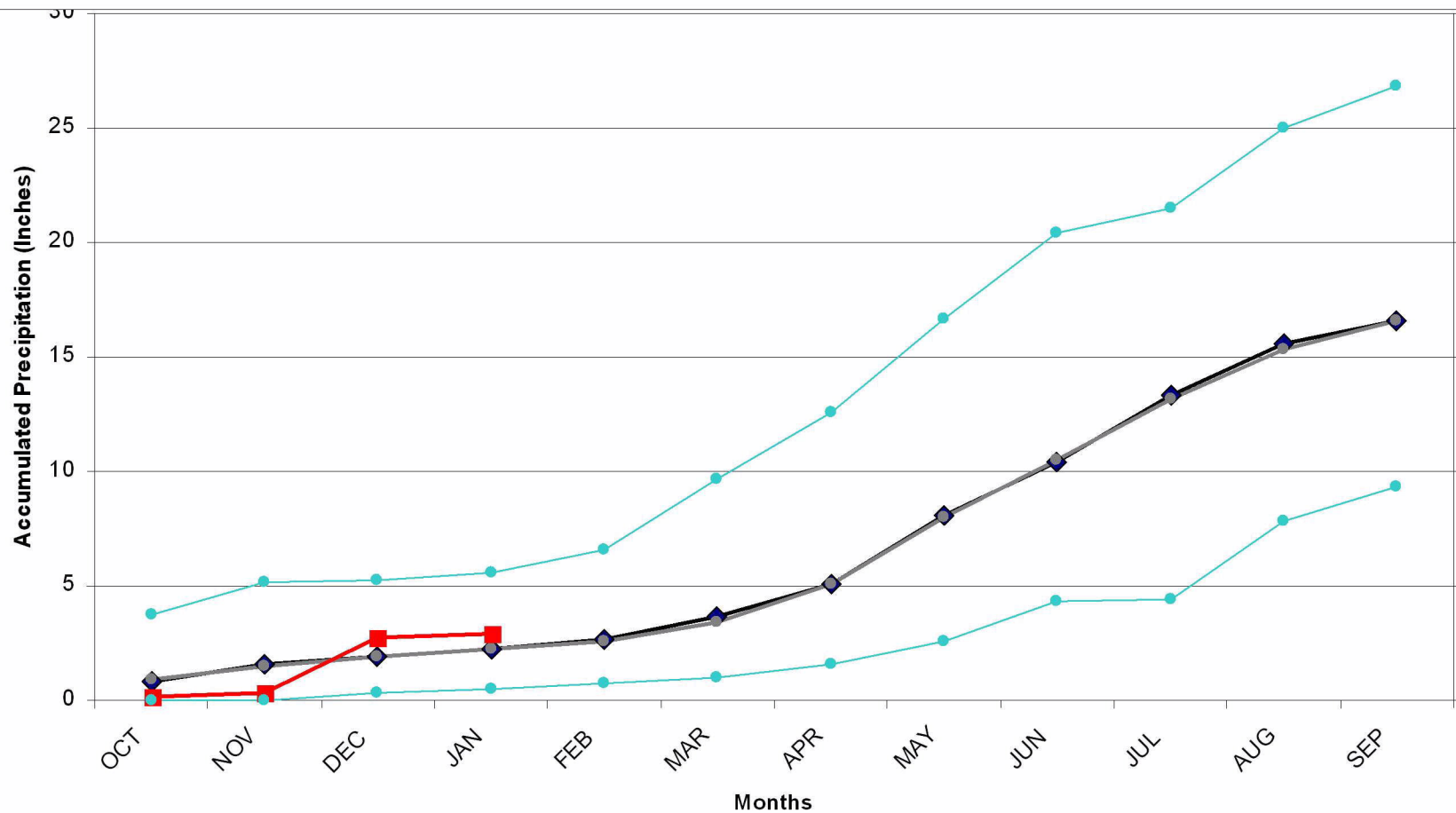
Rocky Ford 2008 Water Year

◆ 30 Year Averages-1971-2000 ✕ Period of Record Average - 1889-2002 ■ 2008 Water Year Accumulated ● Max Precip ▲ mi



Division 7 – Akron

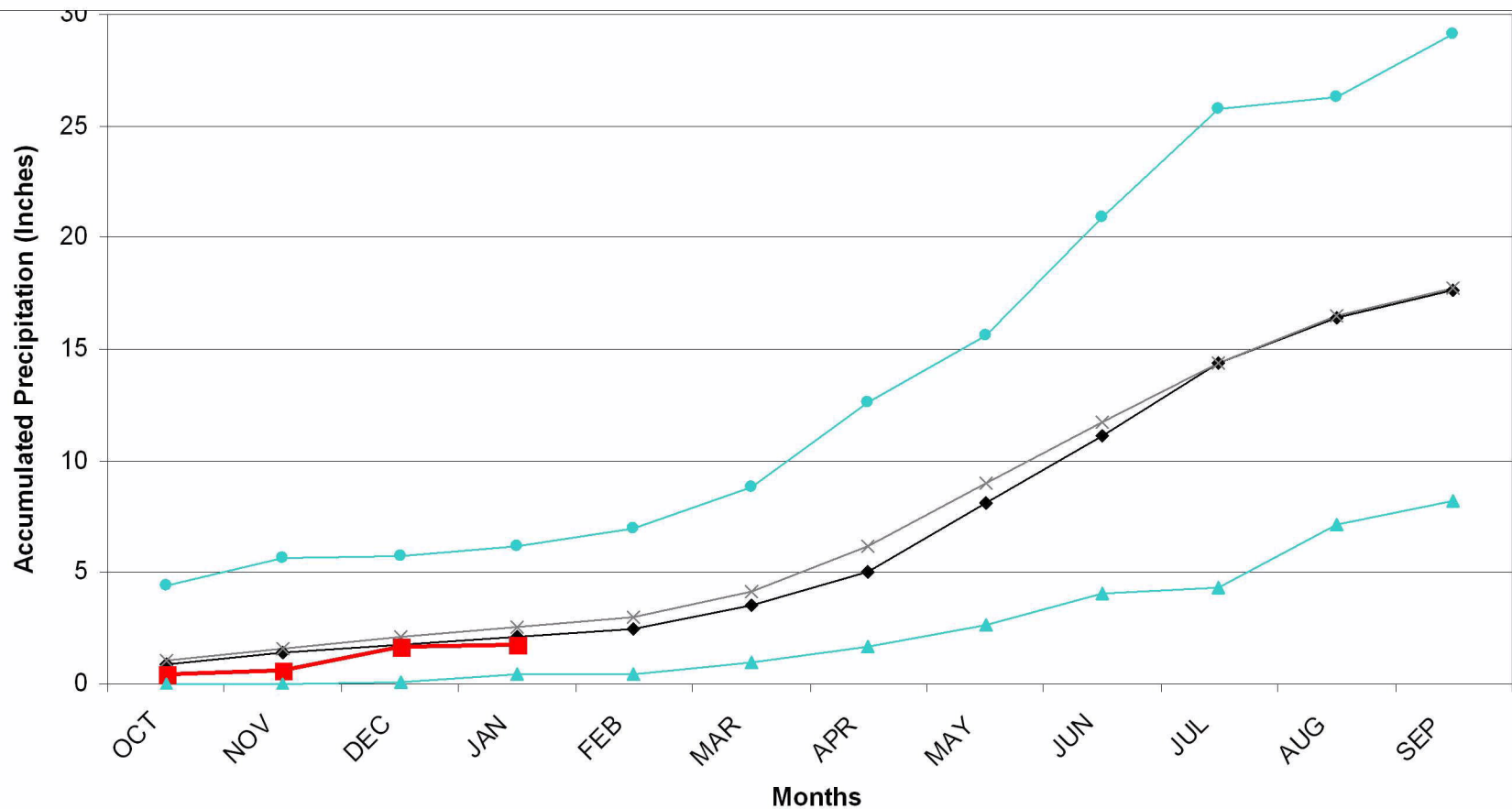
Akron 4E 2008 Water Year



Division 7 – Leroy

Leroy 5SW 2008 Water Year

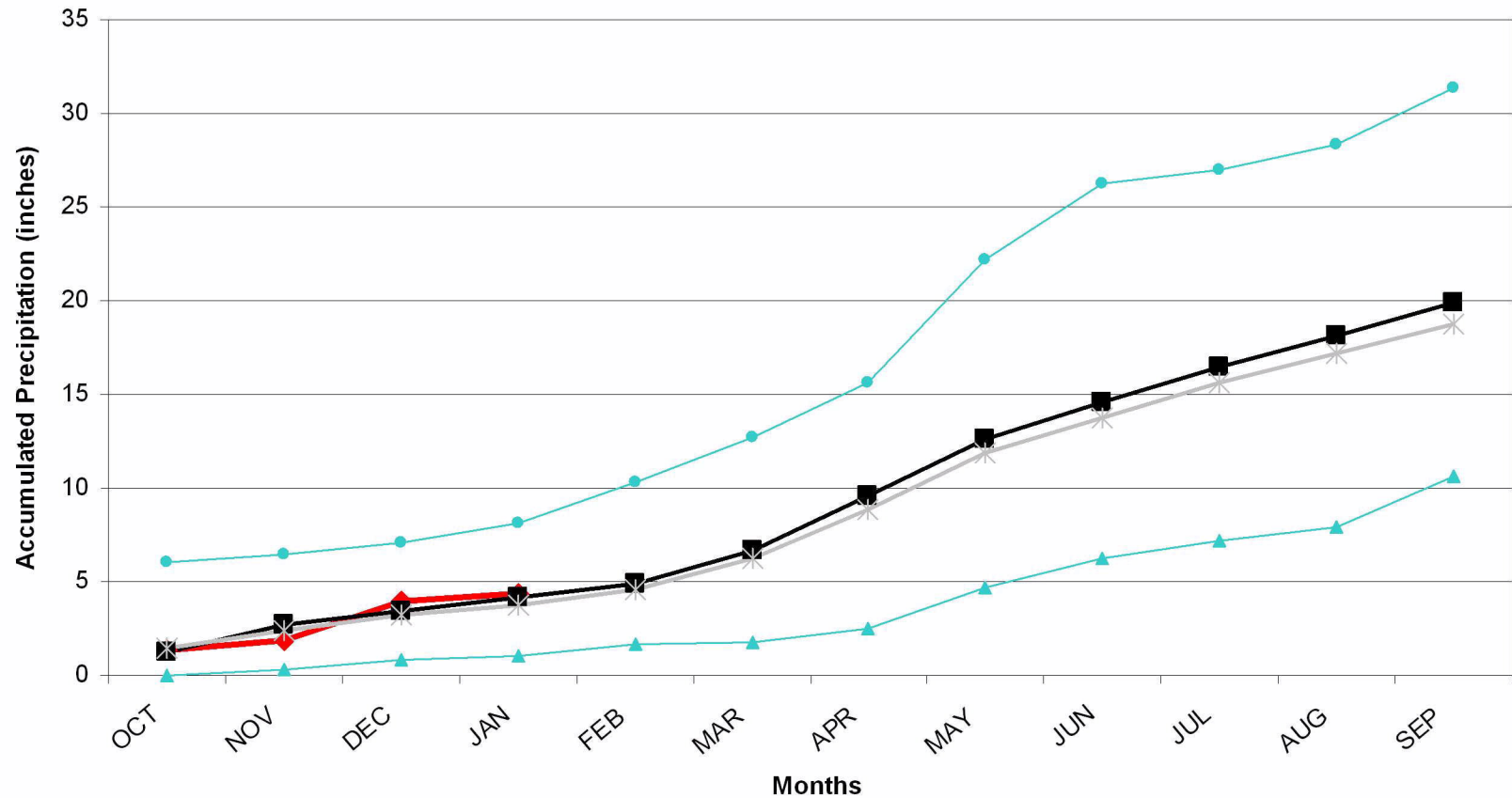
◆ 30 Year Averages-1971-2000 ✕ Period of Record Average - 1890-2002 ■ 2008 Water Year Accumulated ● Max Precip ▲ Min



Division 8 – Boulder

Boulder 2008 Water Year

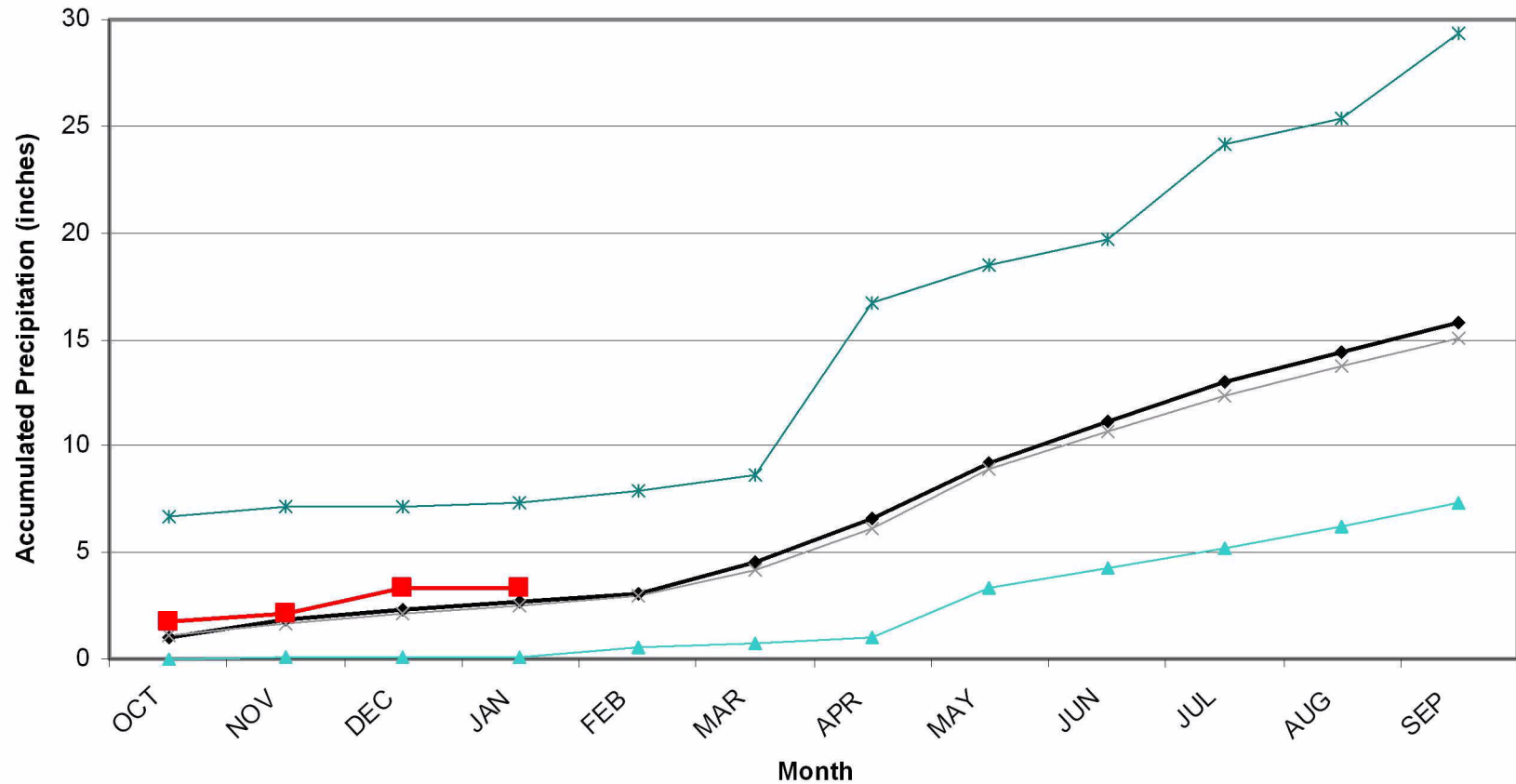
◆ 2008 Water Year ■ 30 Year Averages-1971-2000 * Period of Record Average - 1894-2002 ● Max Precip ▲ Min Precip



Division 8 – Fort Collins

Fort Collins 2008 Water Year

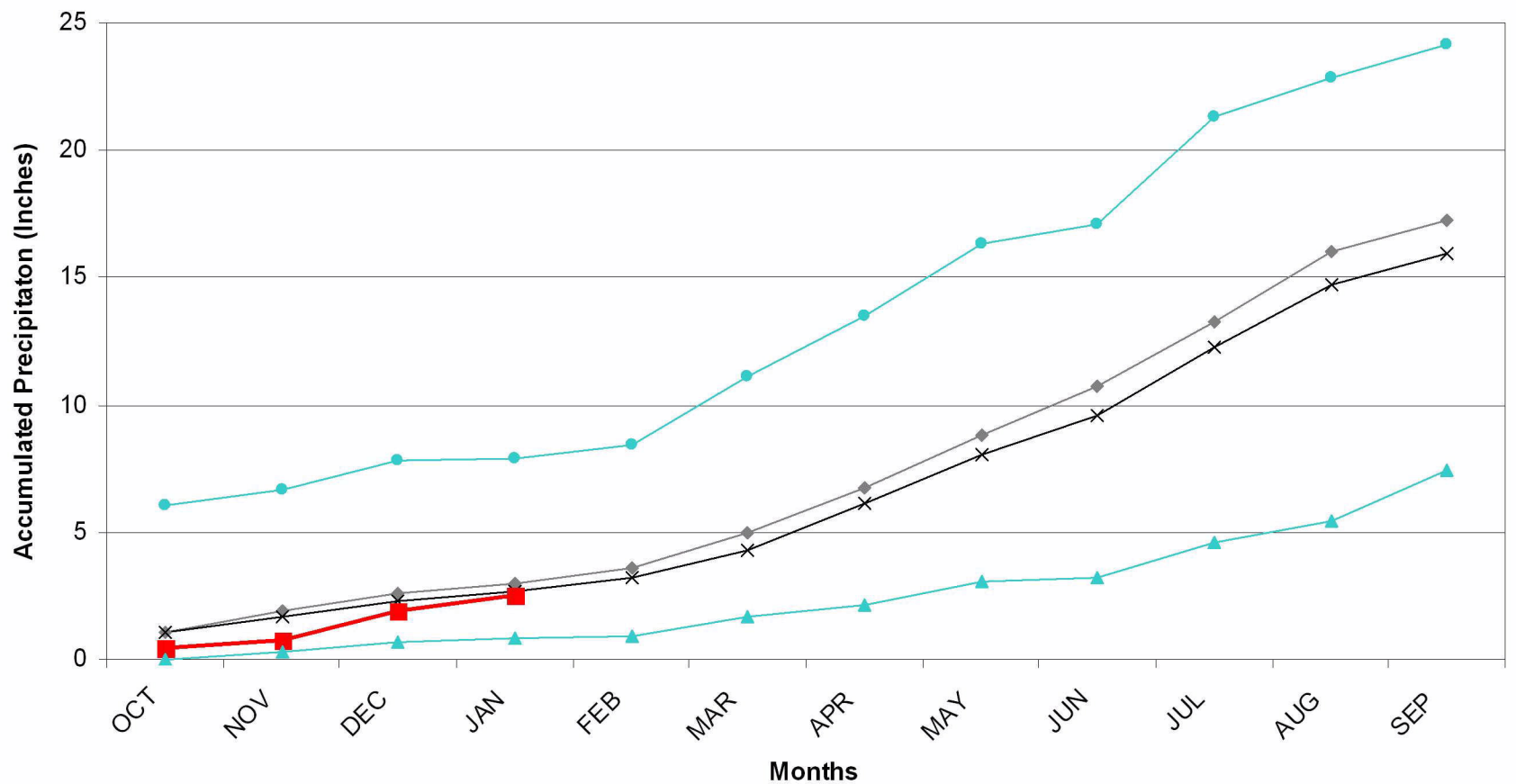
◆ 30 Year Averages-1971-2000 ✕ Period of Record Average - 1890 - 2002 ■ 2008 Water Year * Max Precip ▲ Min P



Division 8 – Cheesman

Cheesman 2008 Water Year

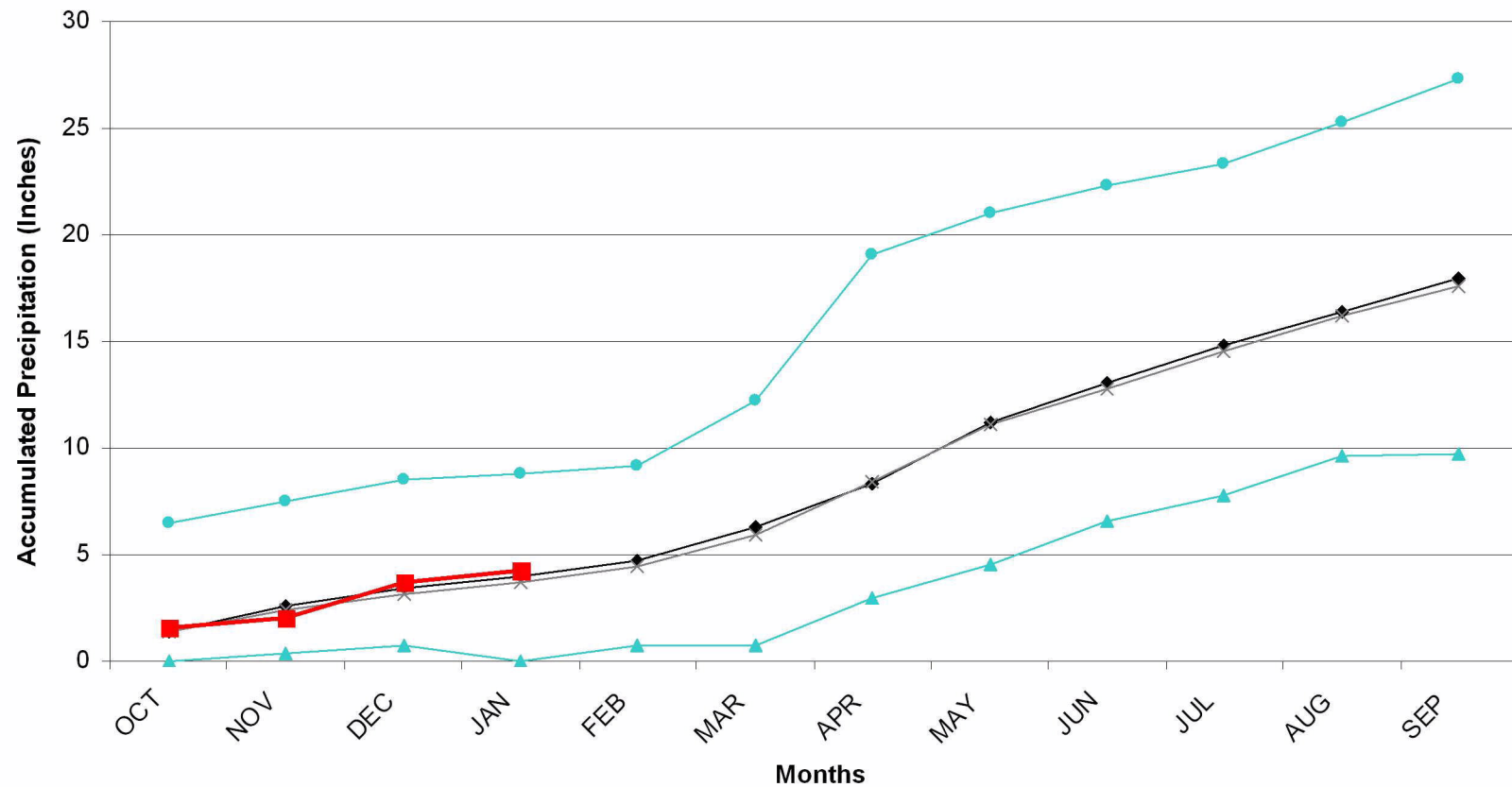
◆ 30 Year Averages-1971-2000 × Period of Record Average - 1904 - 2002 ■ 2008 Water Year ● Max Precip ▲ Min



Division 8 – Kassler

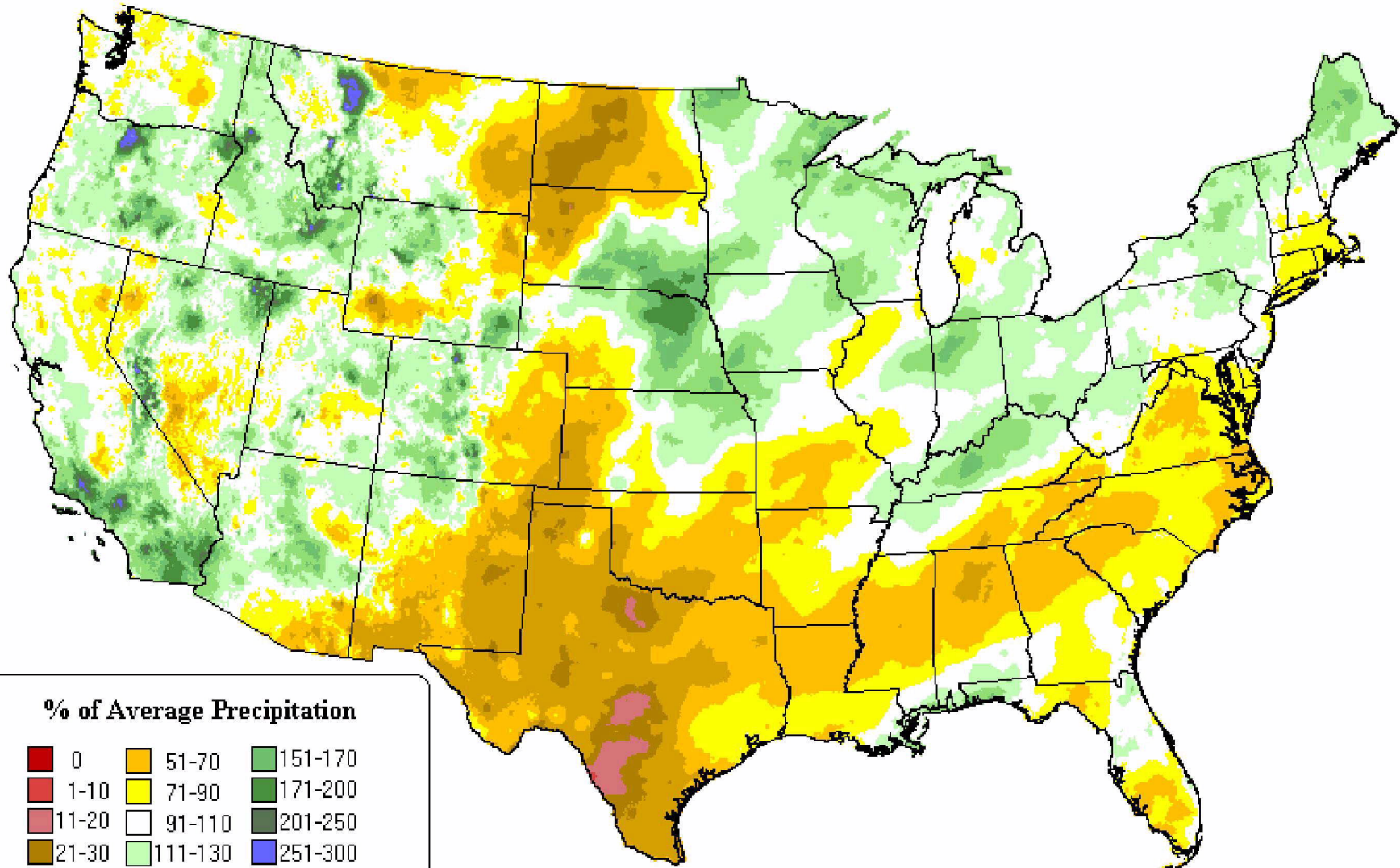
Kassler 2008 Water Year

◆ 30 Year Averages-1971-2000 ✕ Period of Record Average - 1899 - 2002 ■ 2008 Water Year Accumulated
● Max Precip ▲ Min Precip

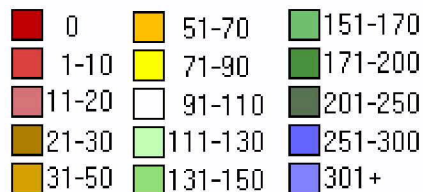


Water Year 2008 (Oct 07-Jan 08) Prism

4-month Percent of Average Precipitation: Jan 2008
Provisional Data

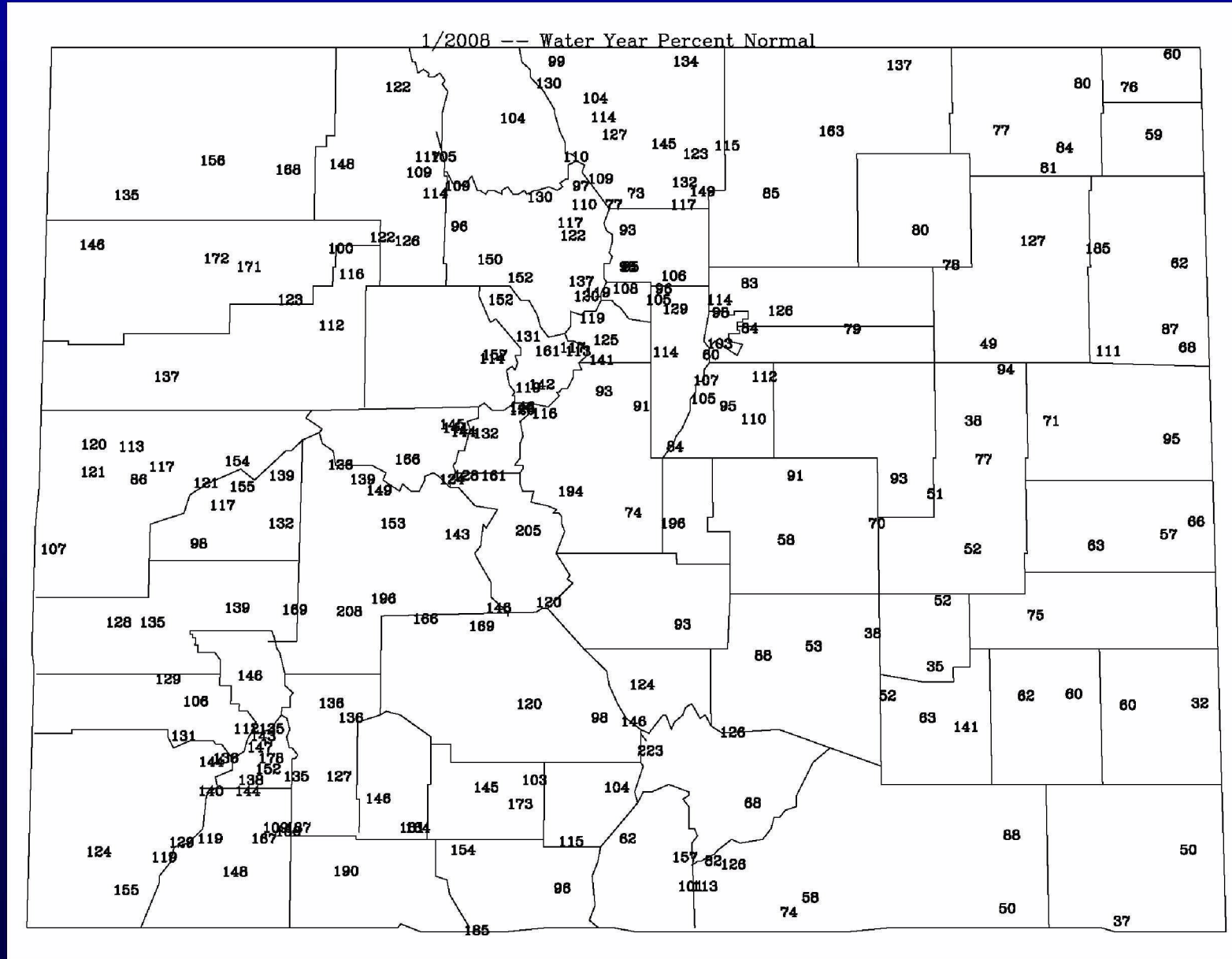


% of Average Precipitation



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<http://www.prismclimate.org> - Map created Feb 12 2008

Water Year 2008 (Oct 07-Jan 08) Prism



3 Month SPI

Colorado

1/2008 3 mon. SPI



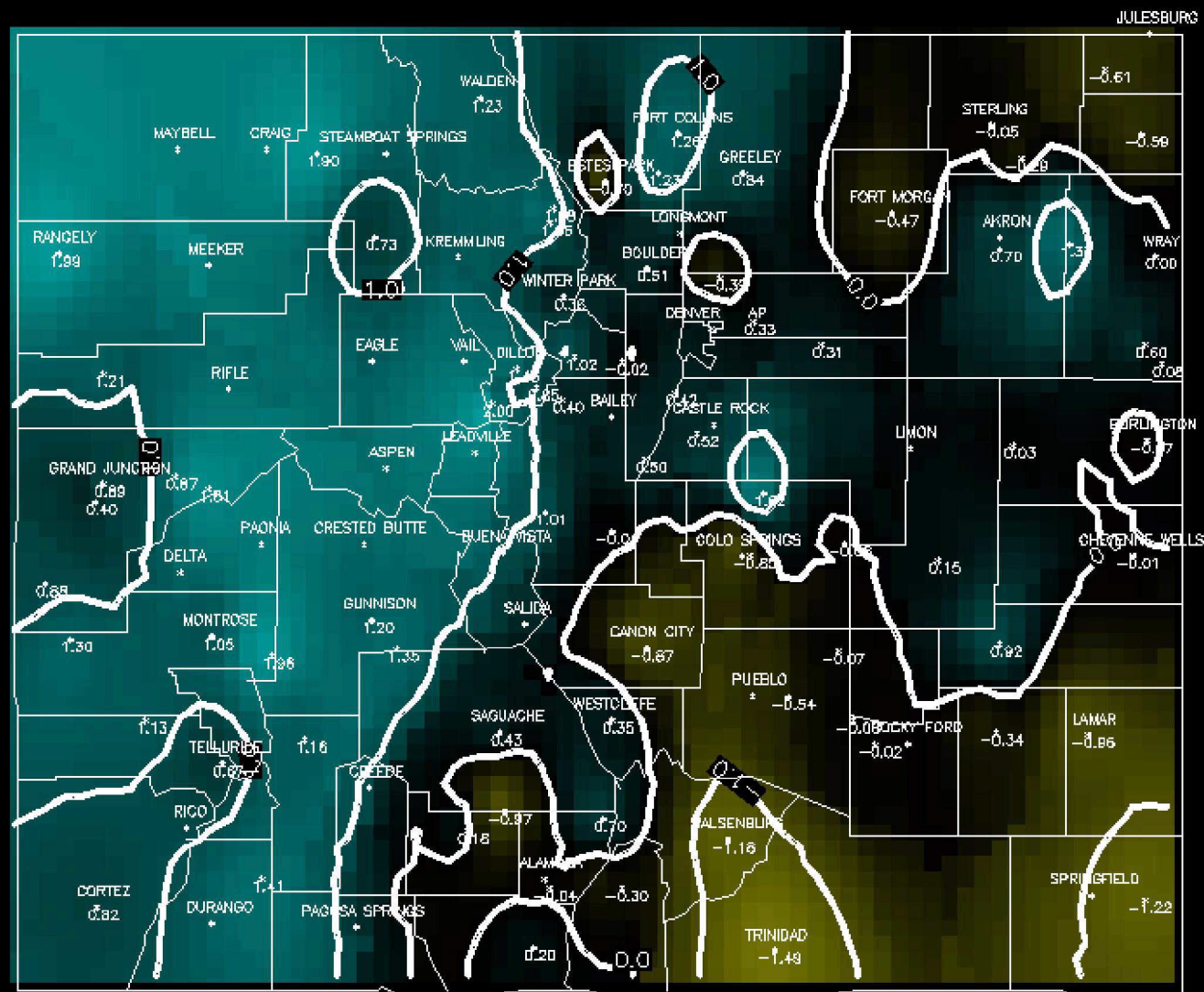
100 % < 2.0	0 % < -1.0
62 % < 1.0	0 % < -2.0
24 % < 0.0	0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

6 Month SPI

Colorado

1/2008 6 mon. SPI



100	>>>	2.0	3	>>>	-1.0
66	>>	1.0	0	>>>	-2.0
28	>	0.0	0	>>>	-3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

48 Month SPI

Colorado

1/2008 48 mon. SPI



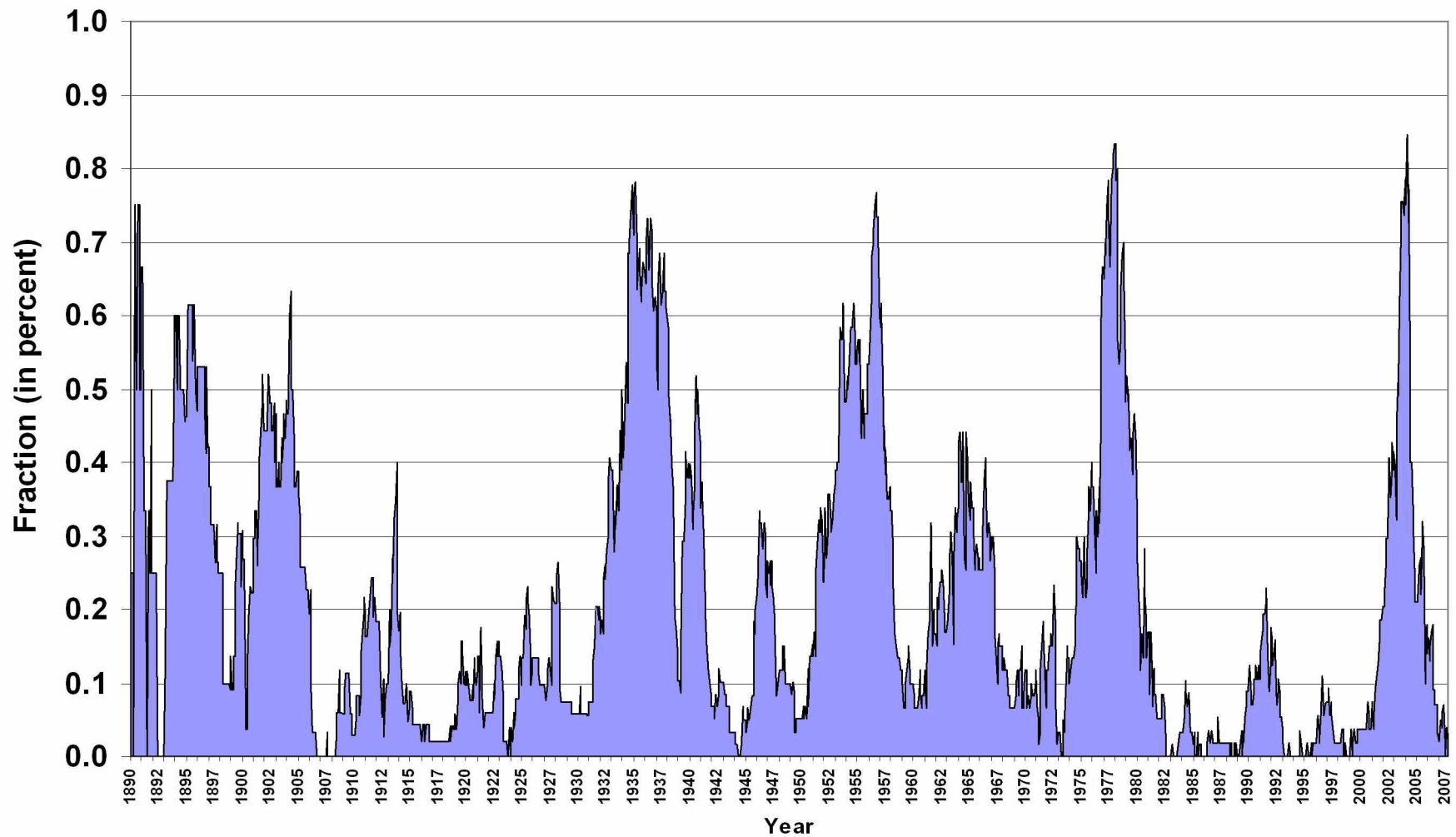
100%	>>> 2.0	1%	<<< -1.0
71%	>>> 1.0	0.2%	<<< -2.0
19%	>>> 0.0	0.2%	<<< -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

Standardized Precipitation Index

Fraction of Colorado in Drought Based on 48 month SPI

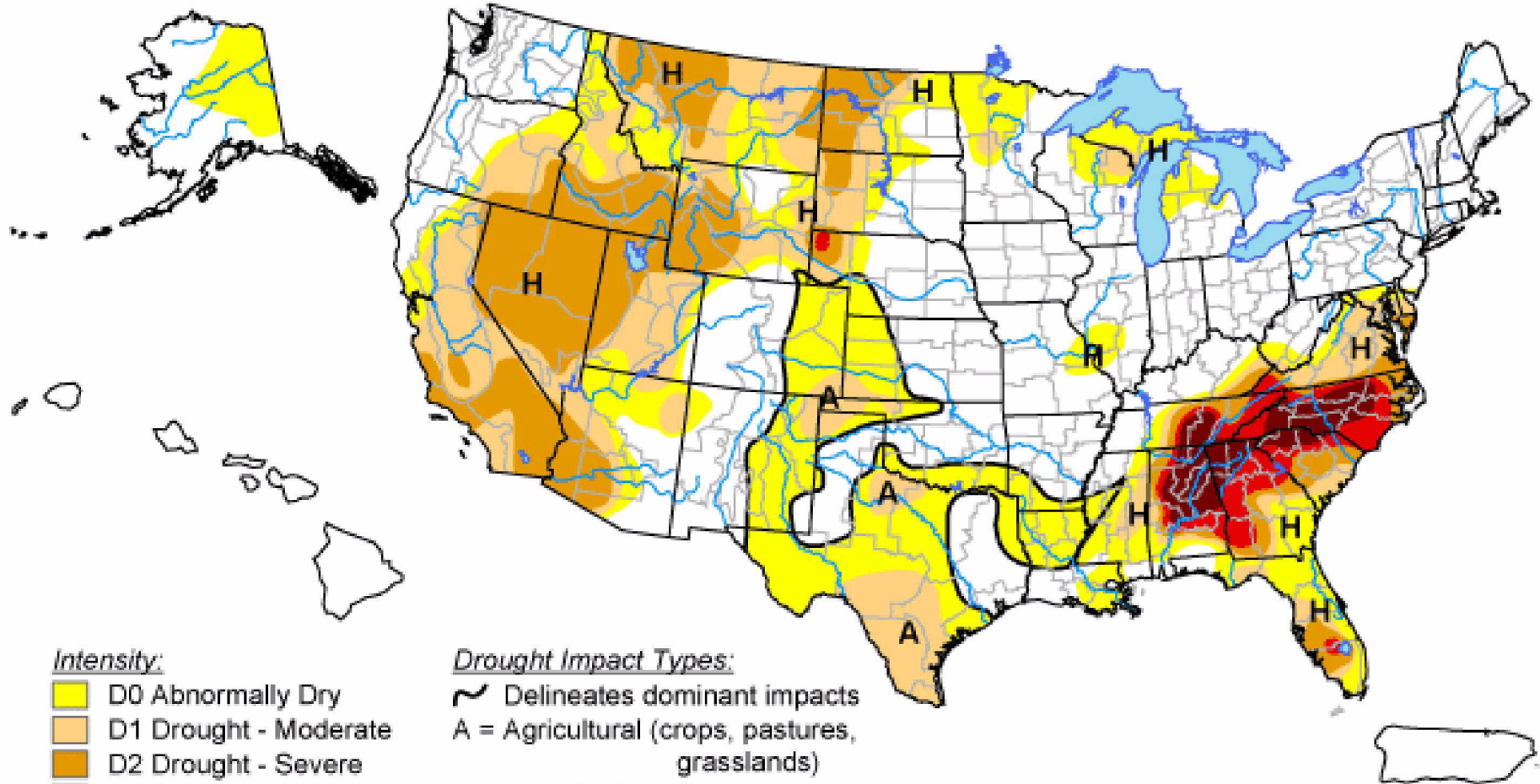
(1890 - January 2008)








U.S. Drought Monitor

January 15, 2008


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>

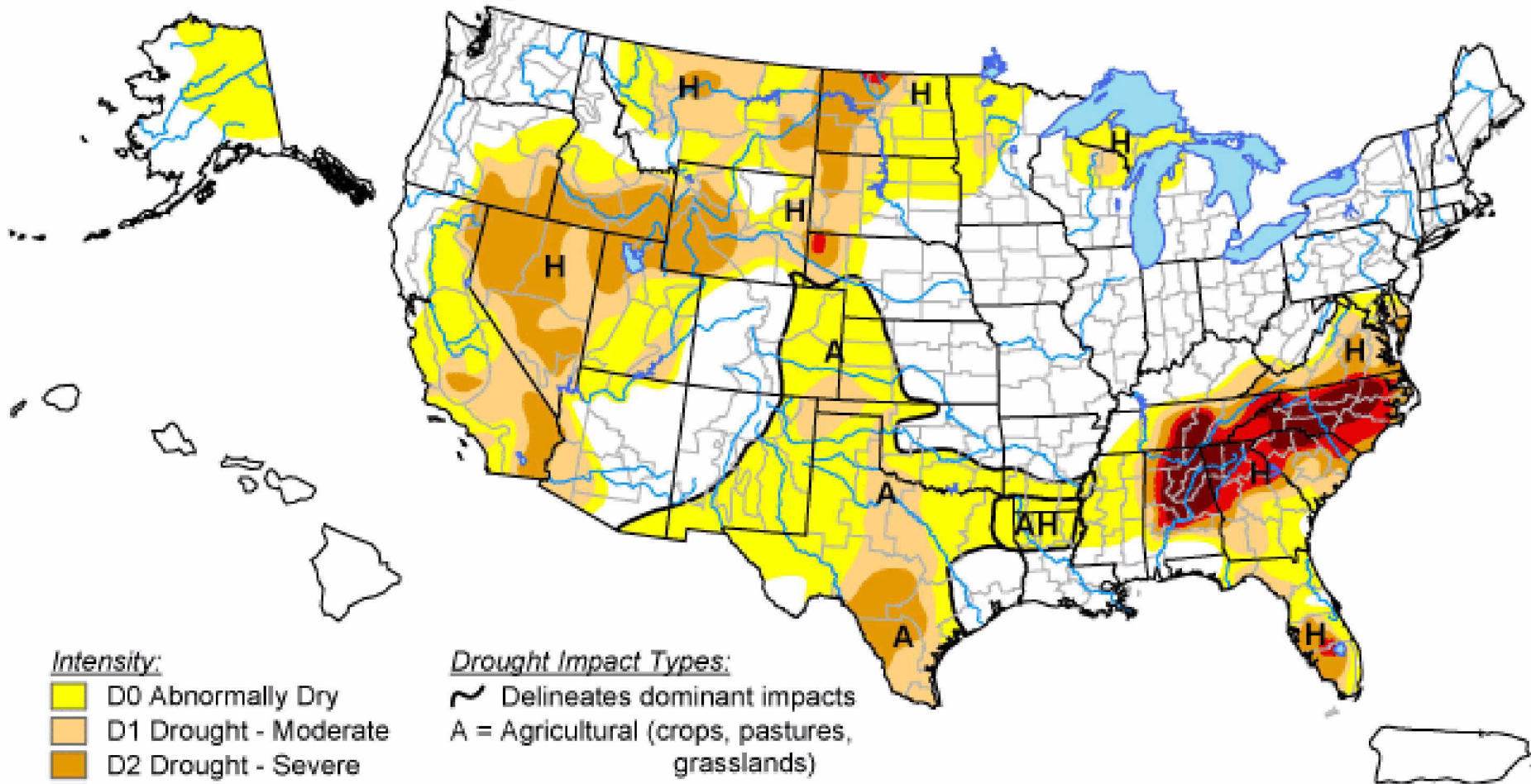


Released Thursday, January 17, 2008






Author: Rich Tinker, Climate Prediction Center, NOAA

U.S. Drought Monitor


February 12, 2008
Valid 7 a.m. EST



Intensity:

-  D0 Abnormally Dry
-  D1 Drought - Moderate
-  D2 Drought - Severe
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<http://drought.unl.edu/dm>

Released Thursday, February 14, 2008

Authors: Jay Lawrimore/Liz Love-Brotak, NOAA/NESDIS/NCDC

Colorado Climate Center

**Data and Power Point Presentations
available for downloading**

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

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