



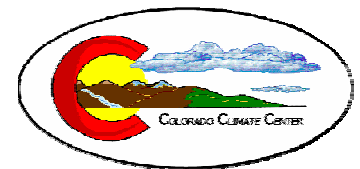
# Climate Update

**Nolan Doesken, State Climatologist**  
**Atmospheric Science Department**  
**Colorado State University**

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

Presented to Water Availability Task Force, Denver Water Board,  
Denver, CO, March 15, 2007

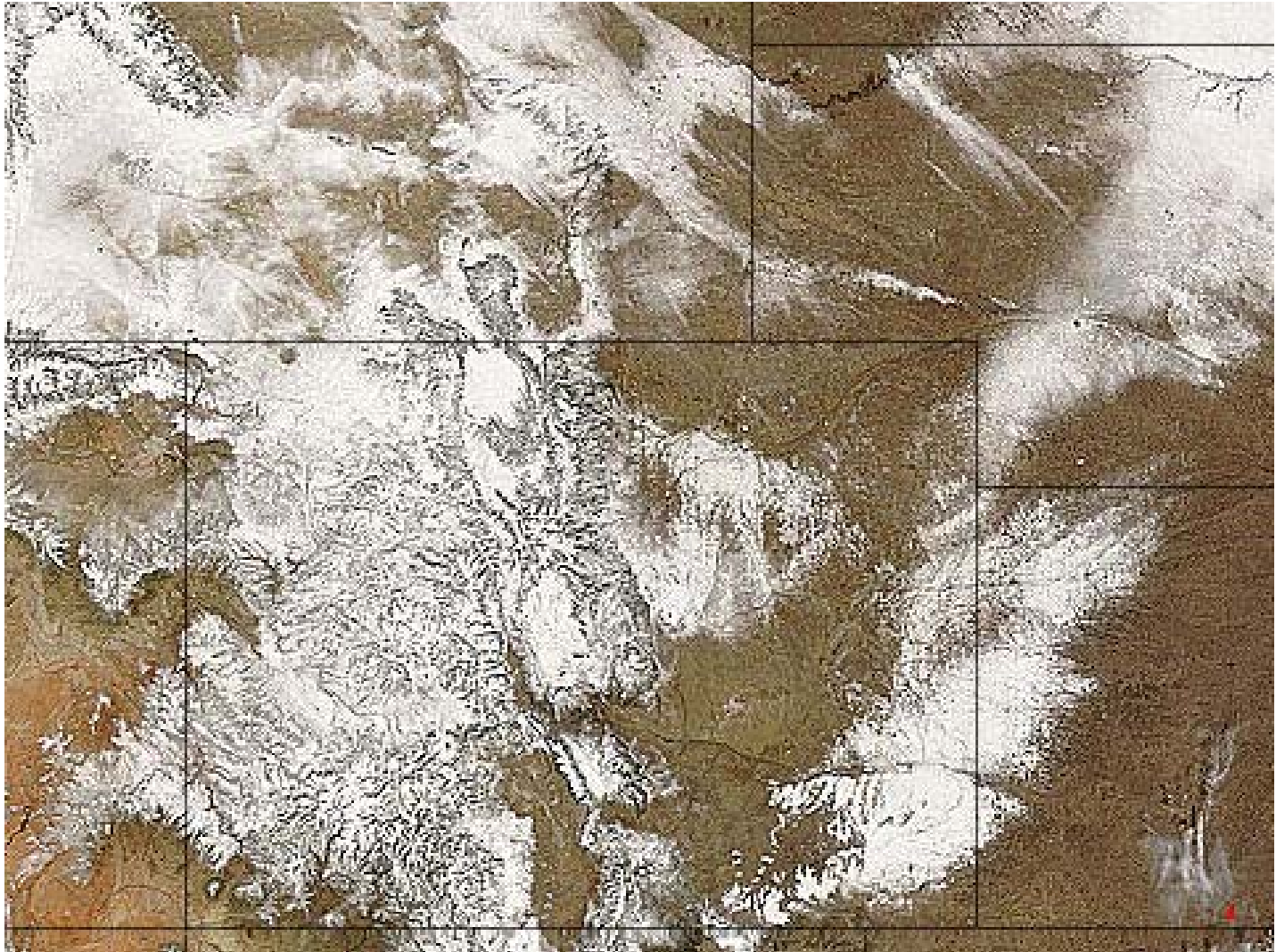
Prepared by Odie Bliss and Wendy Ryan





# Colorado Snowcover

As of March 3, 2007

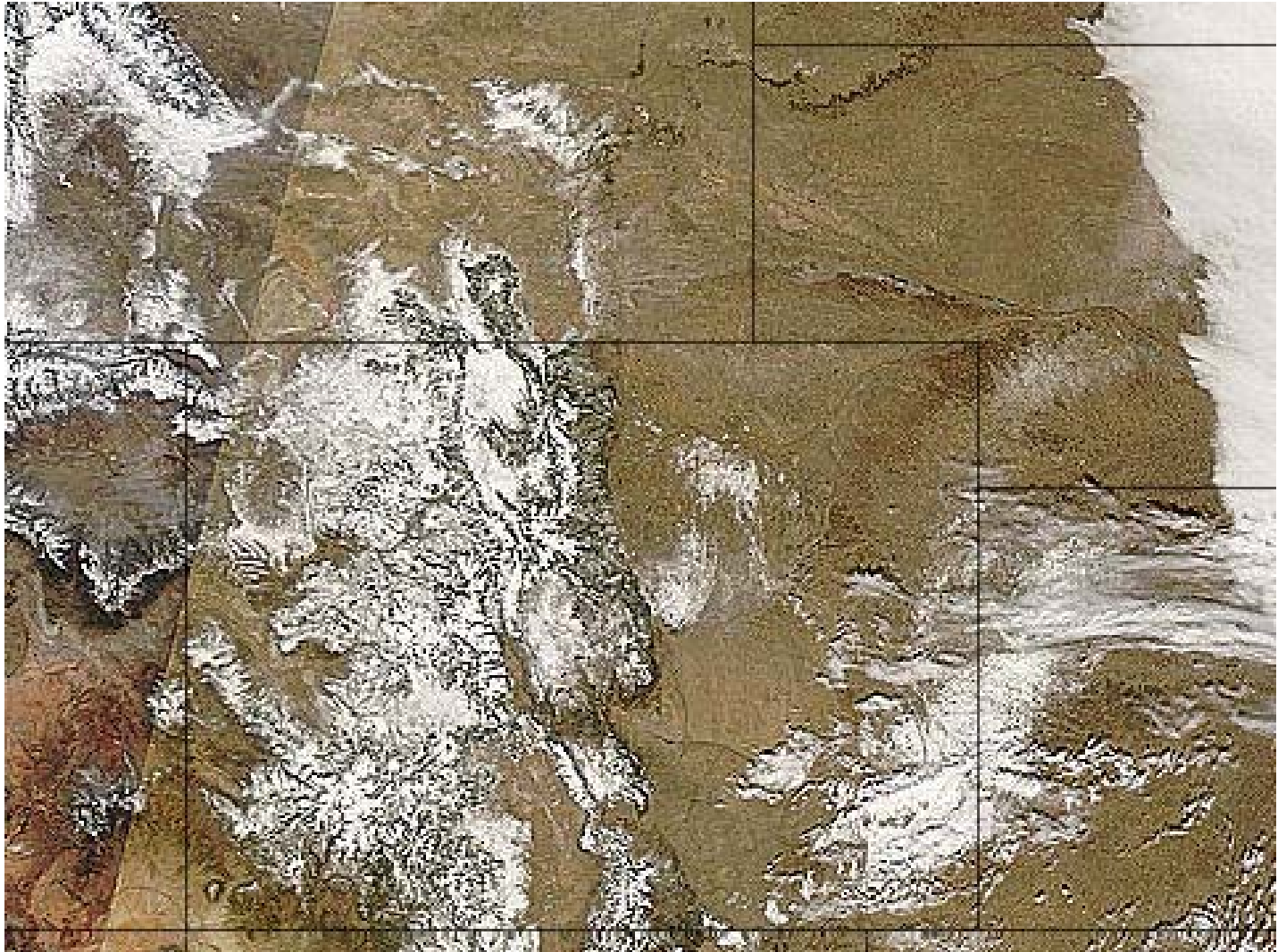


[http://rapidfire.sci.gsfc.nasa.gov/subsets/?AERONET\\_BSRN\\_BAO\\_Boulder](http://rapidfire.sci.gsfc.nasa.gov/subsets/?AERONET_BSRN_BAO_Boulder)



# Colorado Snowcover

As of March 7, 2007

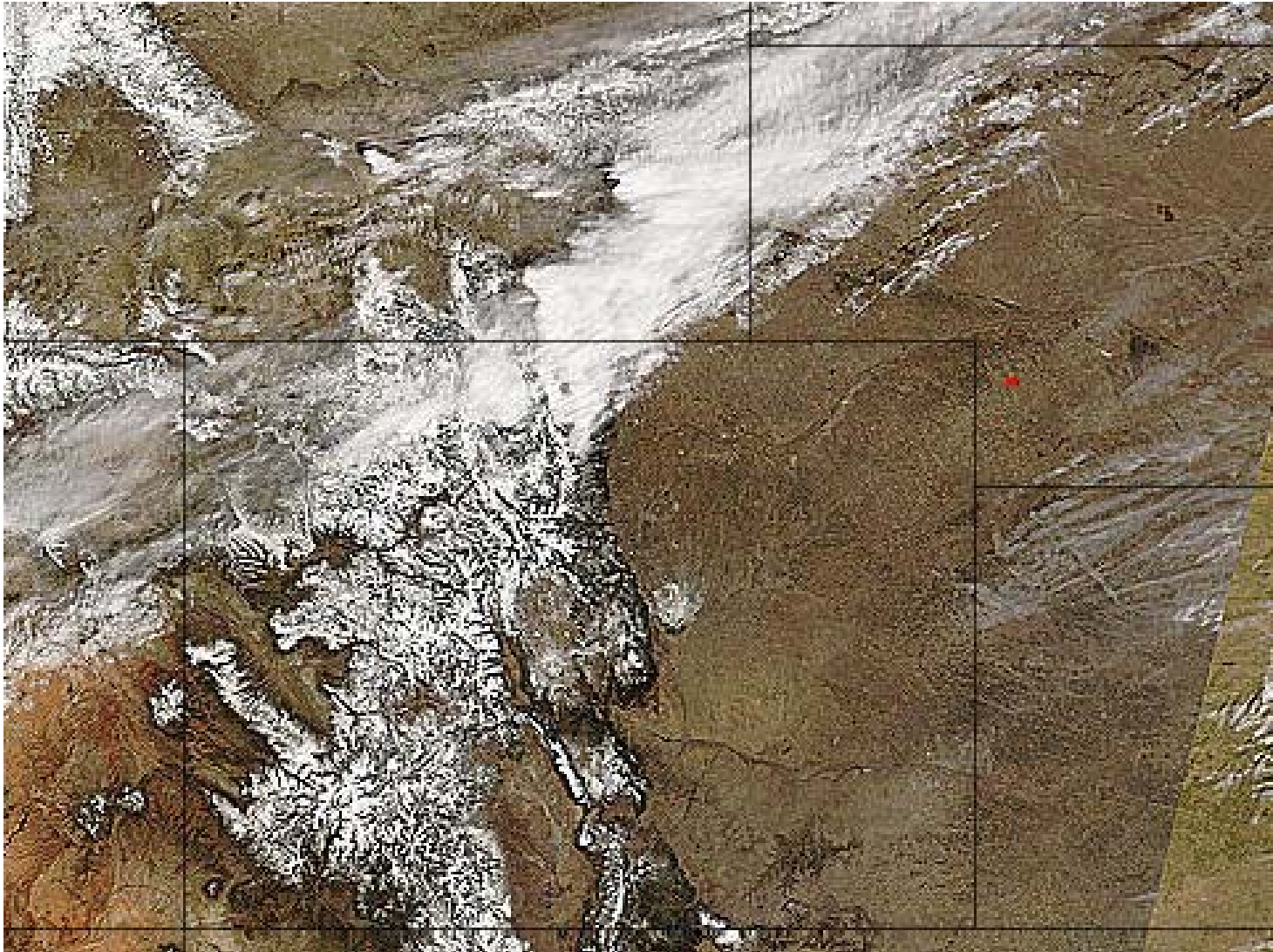


[http://rapidfire.sci.gsfc.nasa.gov/subsets/?AERONET\\_BSRN\\_BAO\\_Boulder](http://rapidfire.sci.gsfc.nasa.gov/subsets/?AERONET_BSRN_BAO_Boulder)



# Colorado Snowcover

As of March 13, 2007

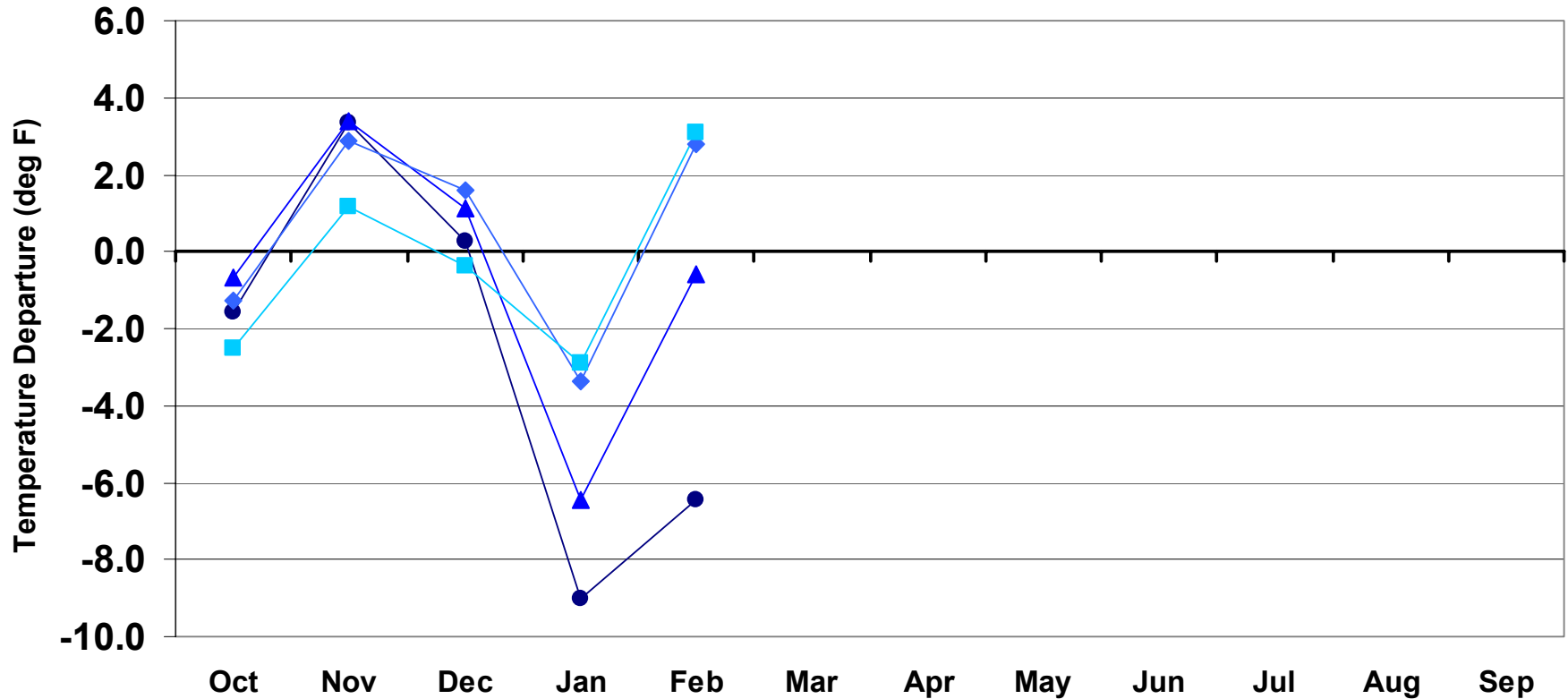


[http://rapidfire.sci.gsfc.nasa.gov/subsets/?AERONET\\_BSRN\\_BAO\\_Boulder](http://rapidfire.sci.gsfc.nasa.gov/subsets/?AERONET_BSRN_BAO_Boulder)



# Water Year 2007 Temperature Departures

Water Year 2007 Temperature Departures



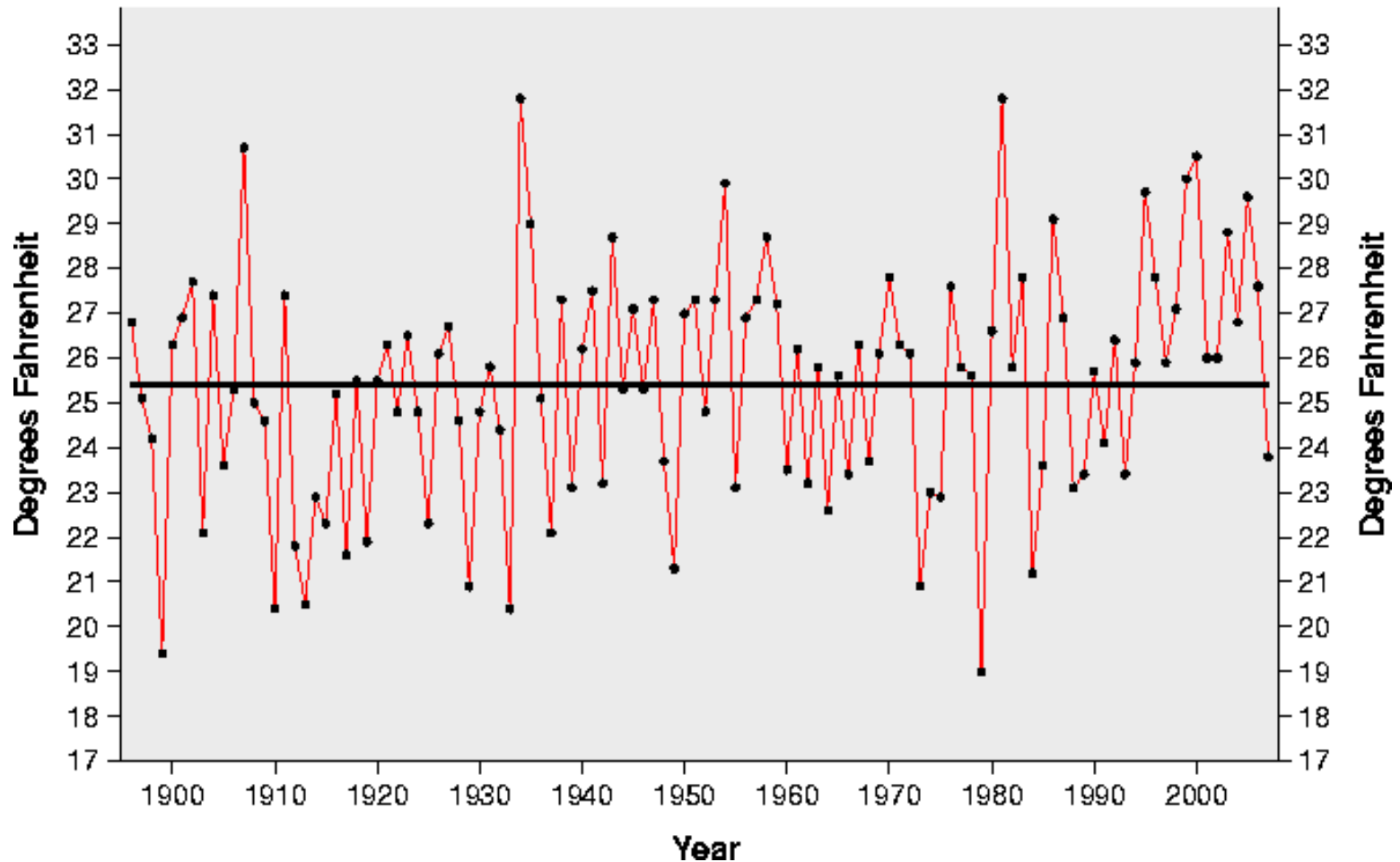
● Eastern Plains ▲ Foothills ◆ Mountains ■ Western Valleys



# Winter (Dec-Feb) Average Temperatures for Colorado

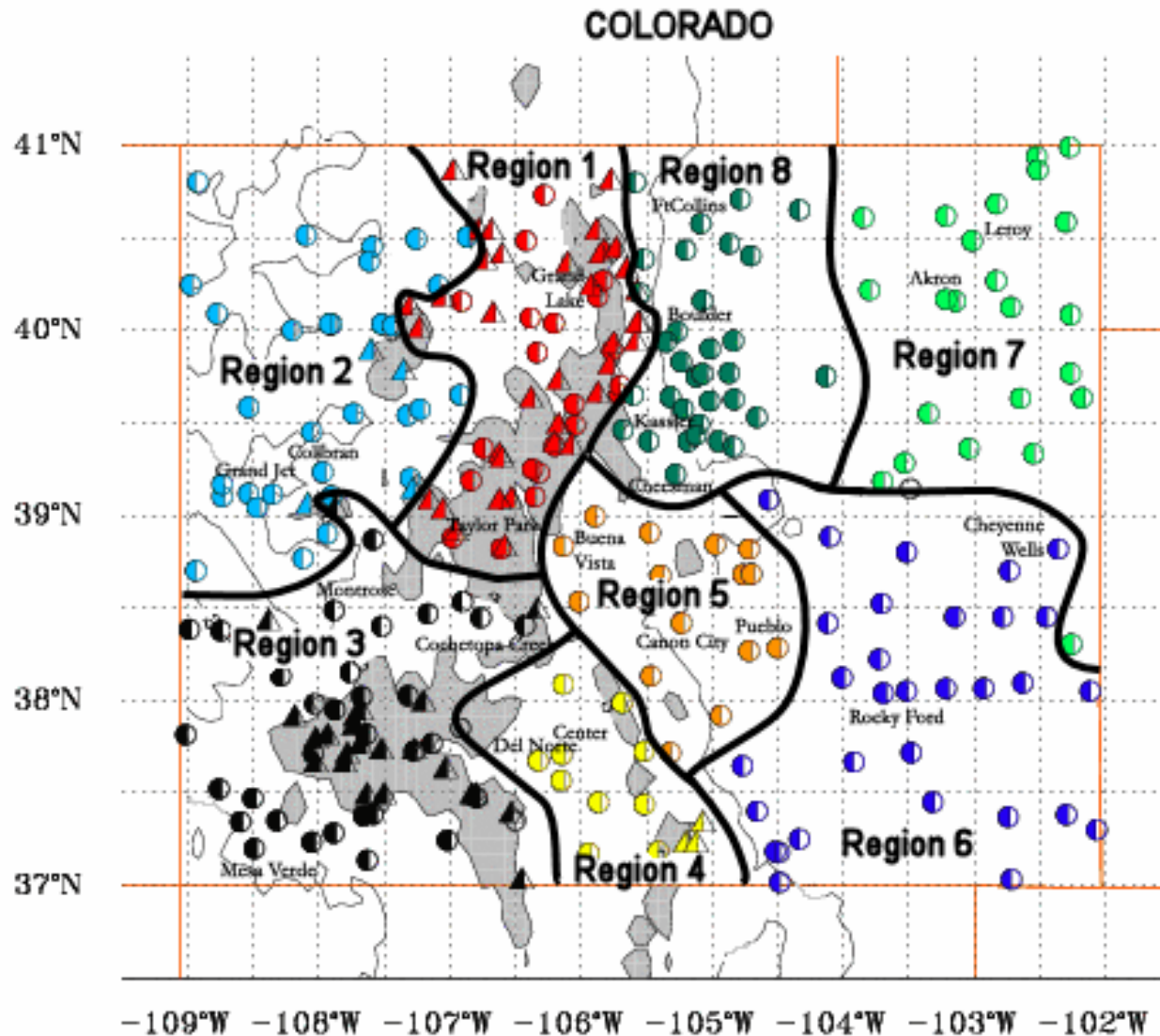
— Actual Temperature  
— Average Temperature

Period of record 1896-2007





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

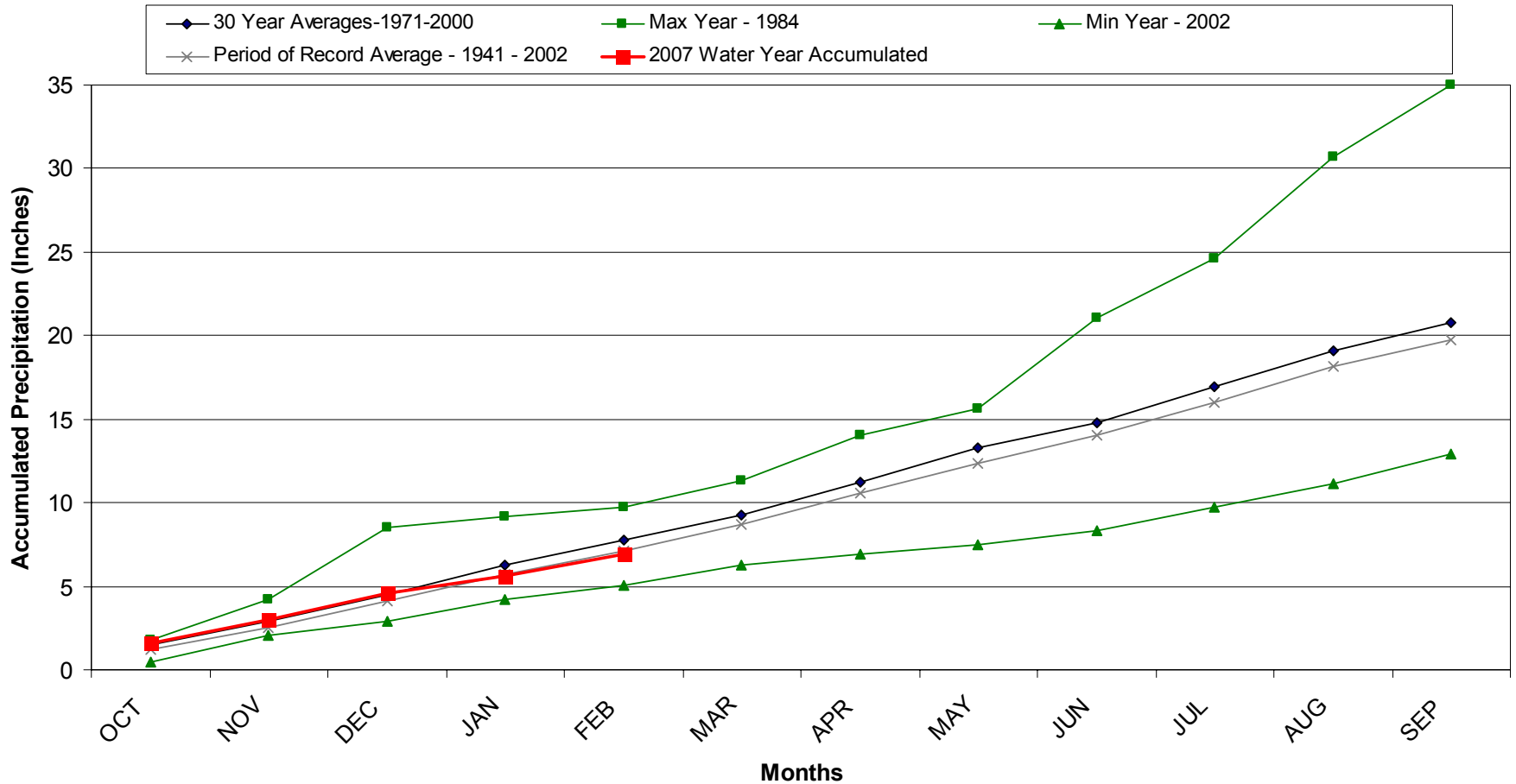






# Division 1- Grand Lake 1NW

## Grand Lake 1 NW 2007 Water Year

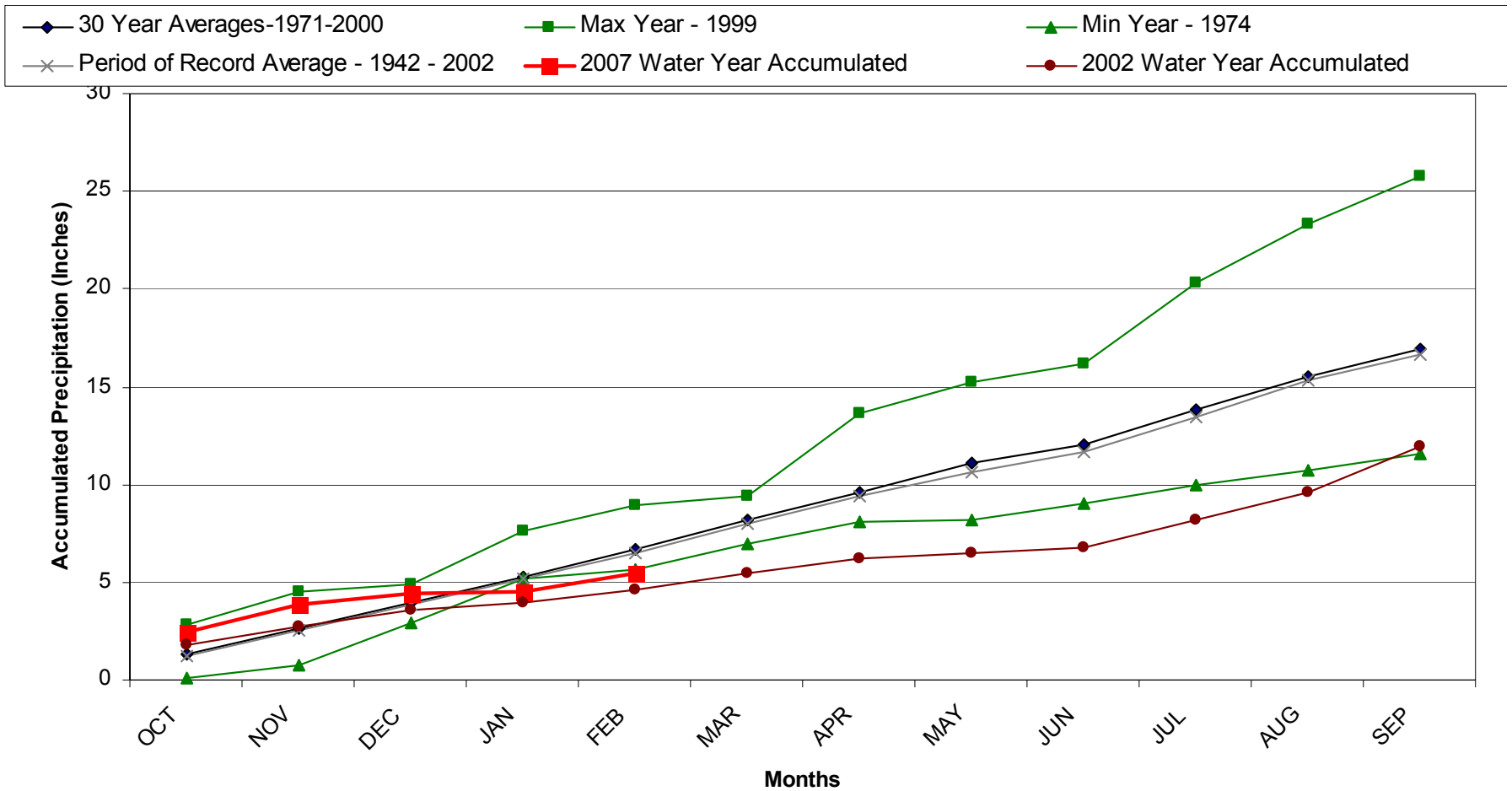






# Division 1 – Taylor Park

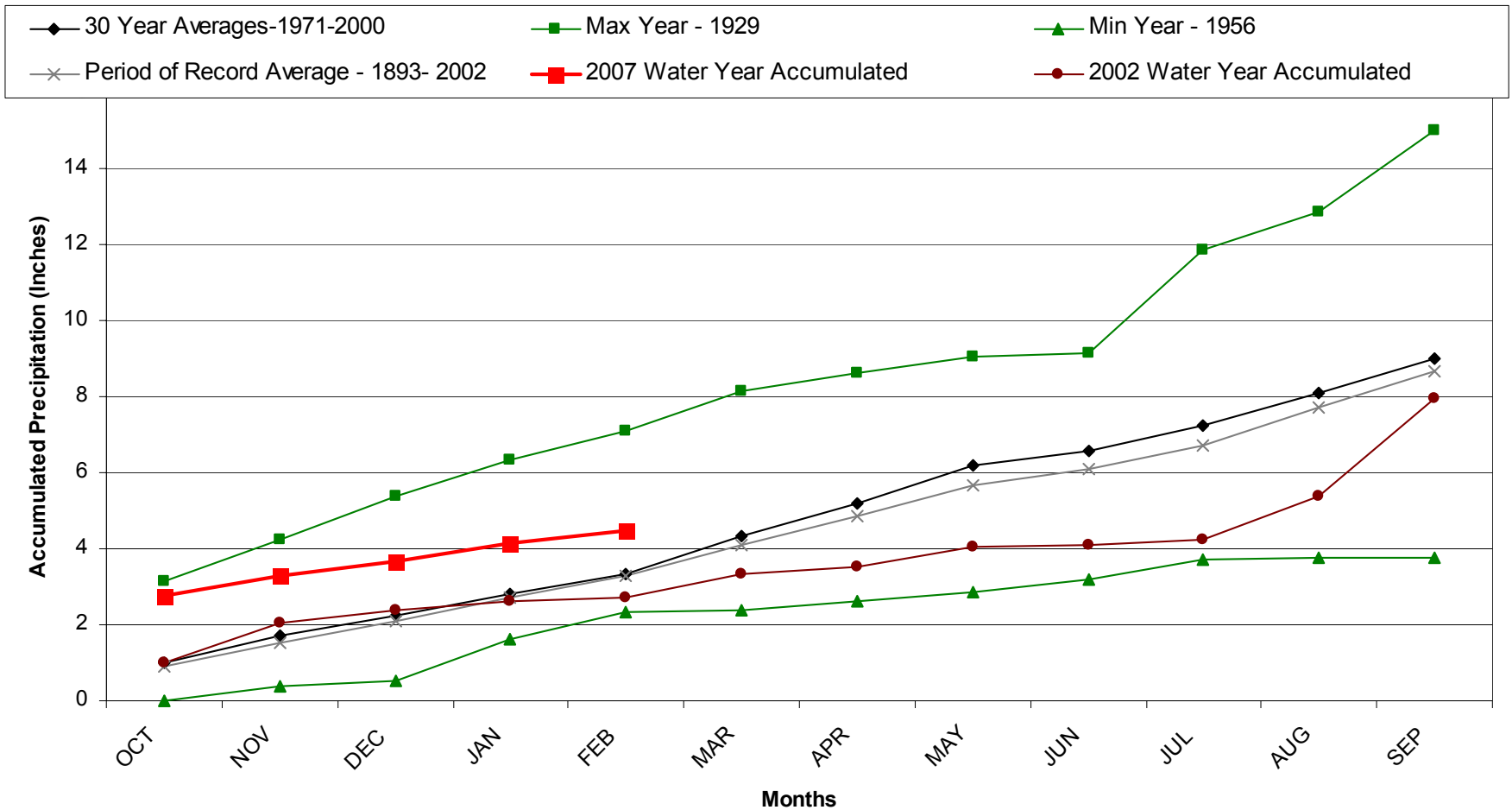
## Taylor Park 2007 Water Year





# Division 2 – Grand Junction

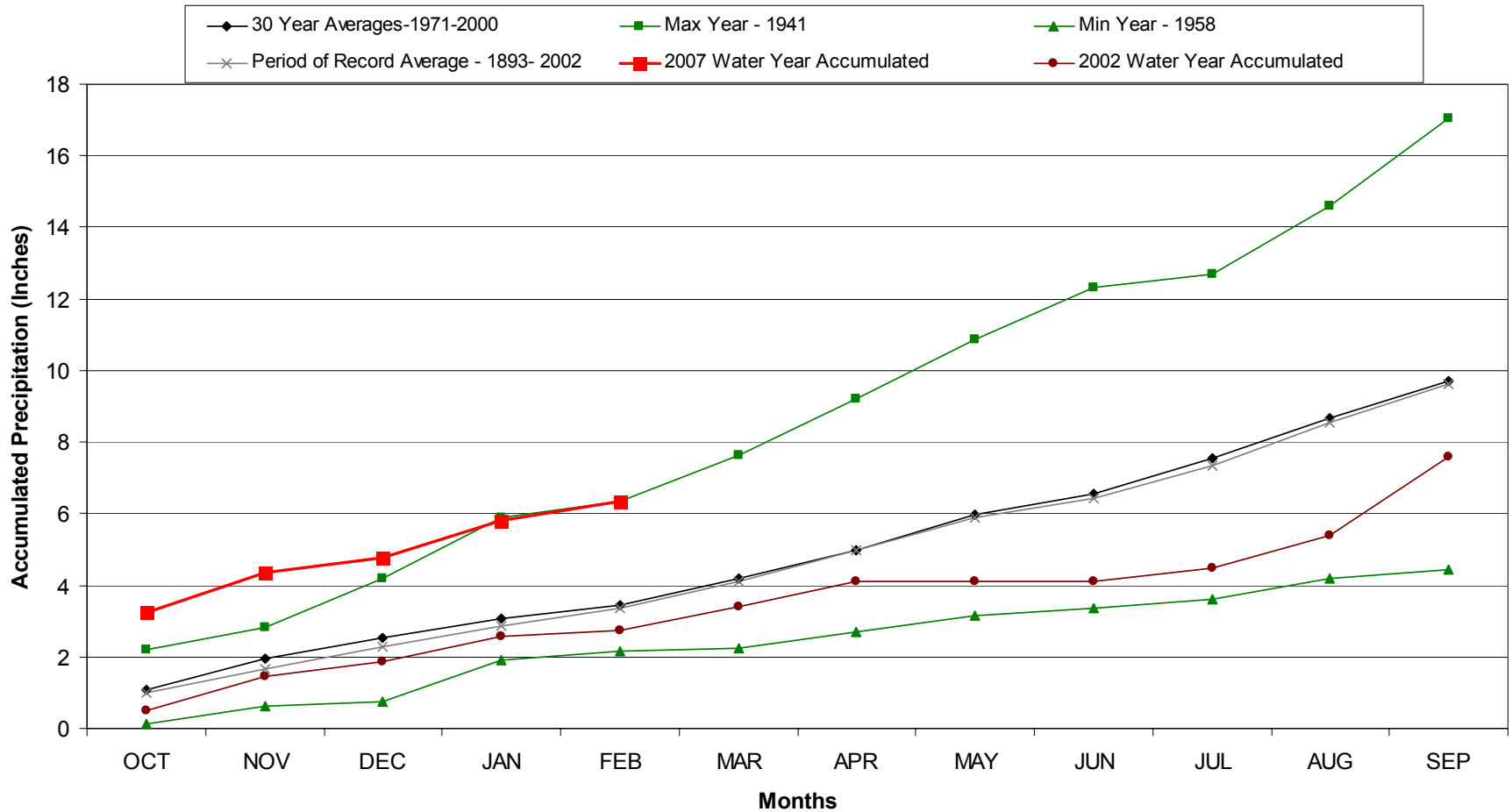
## Grand Junction WSFO 2007 Water Year





# Division 3 – Montrose

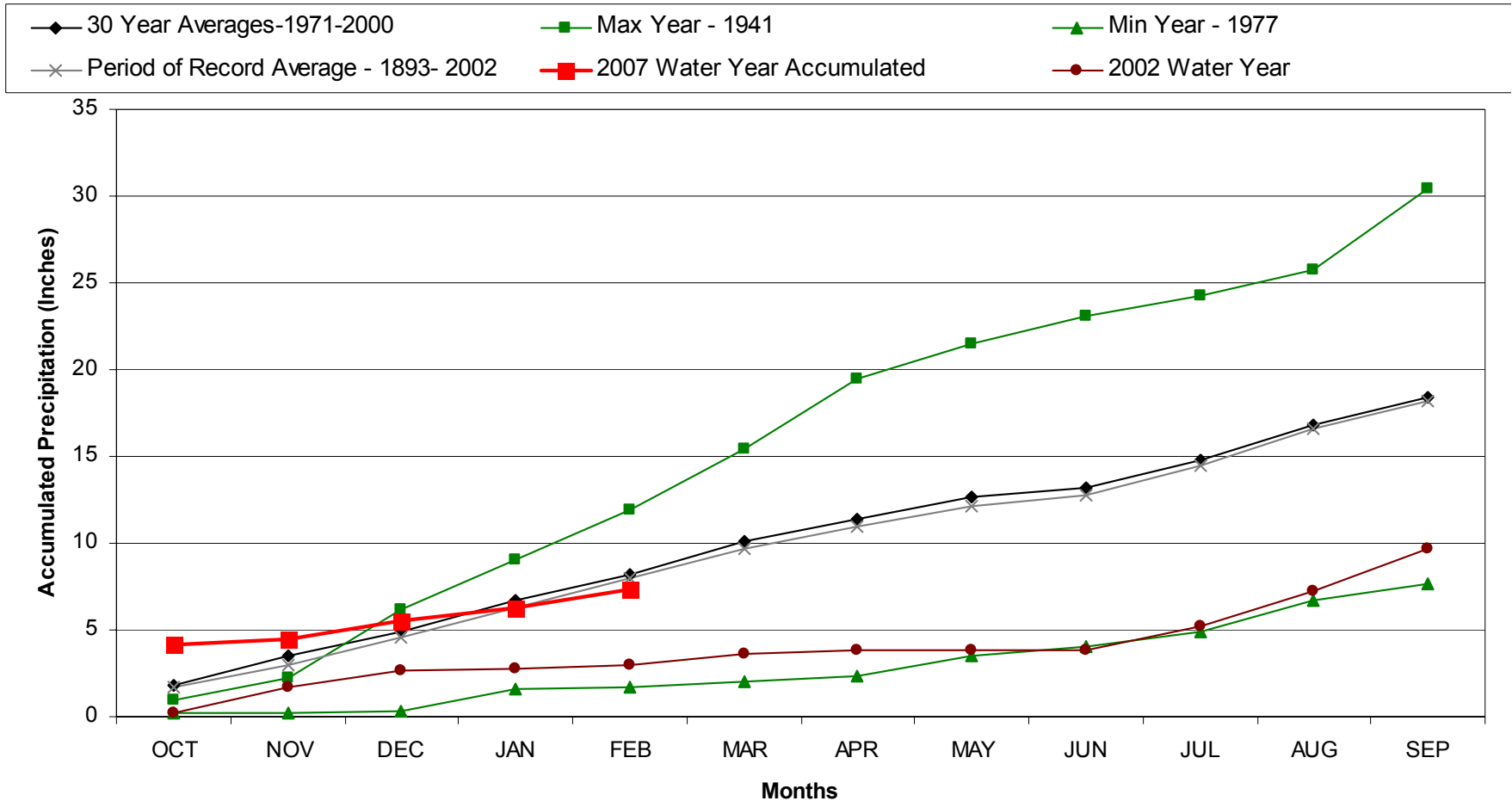
## Montrose #2 2007 Water Year





# Division 3 – Mesa Verde

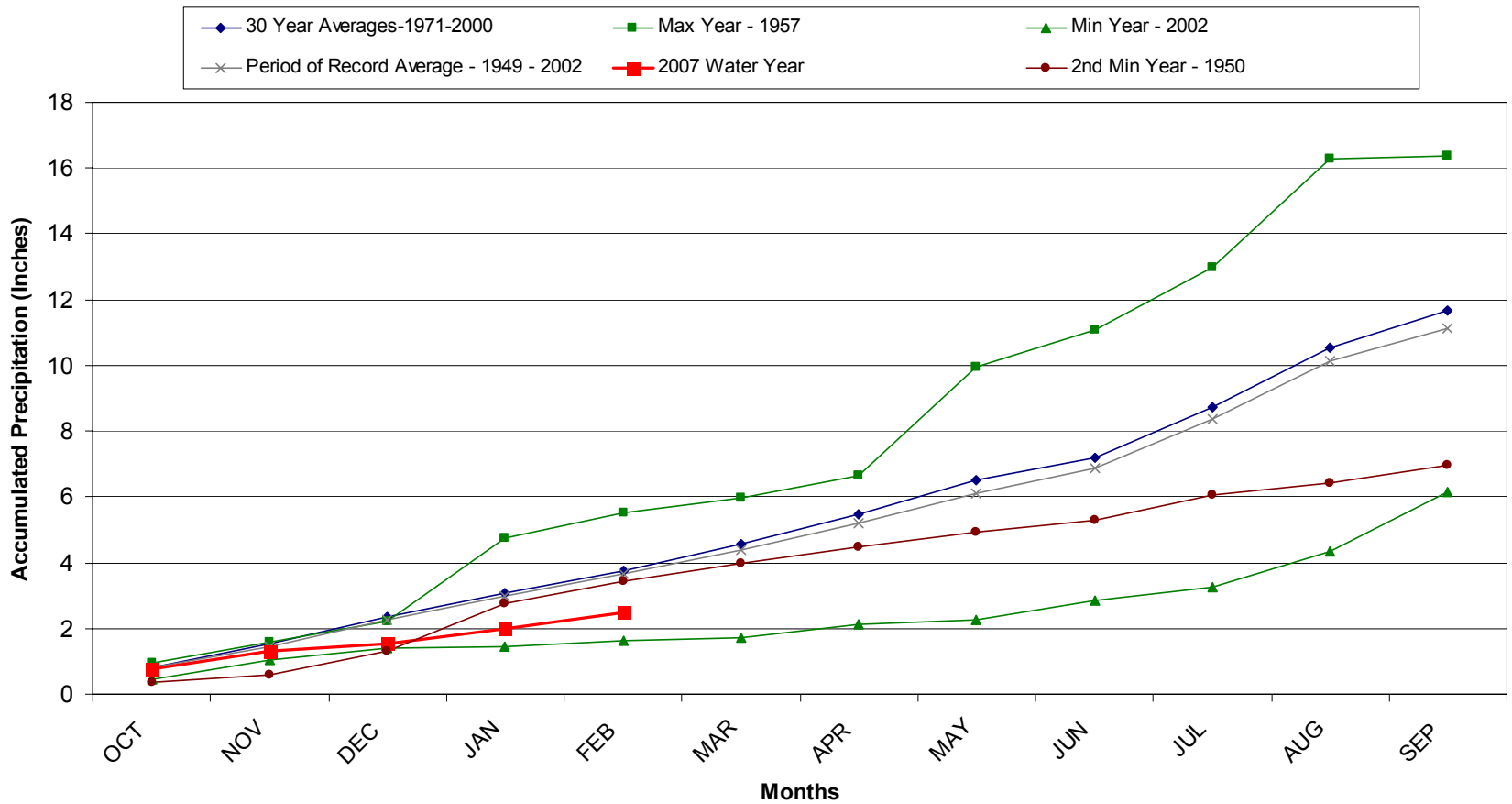
## Mesa Verde NP 2007 Water Year





# Division 3 – Cochetopa Creek

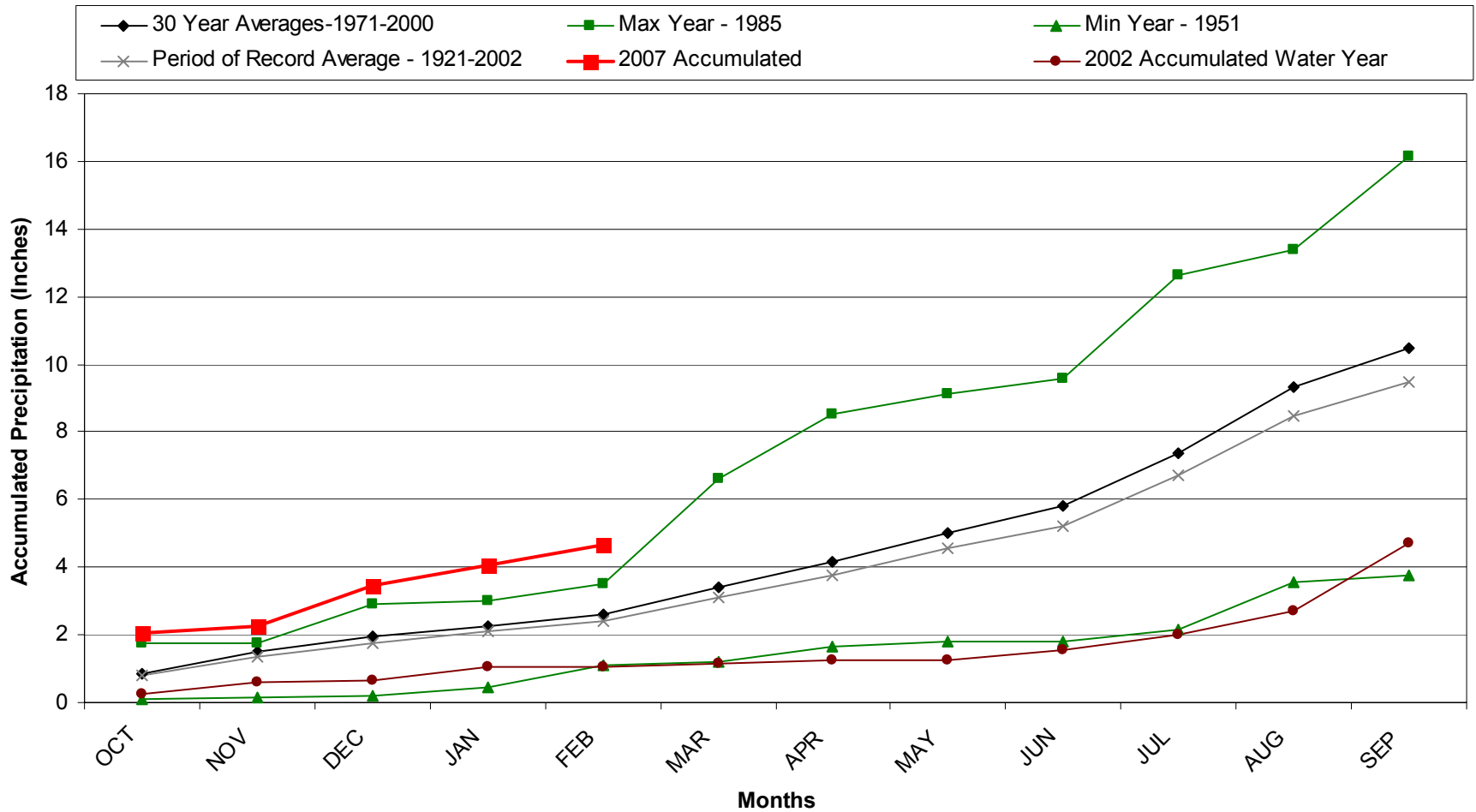
## Cochetopa Creek 2007 Water Year





# Division 4 – Del Norte

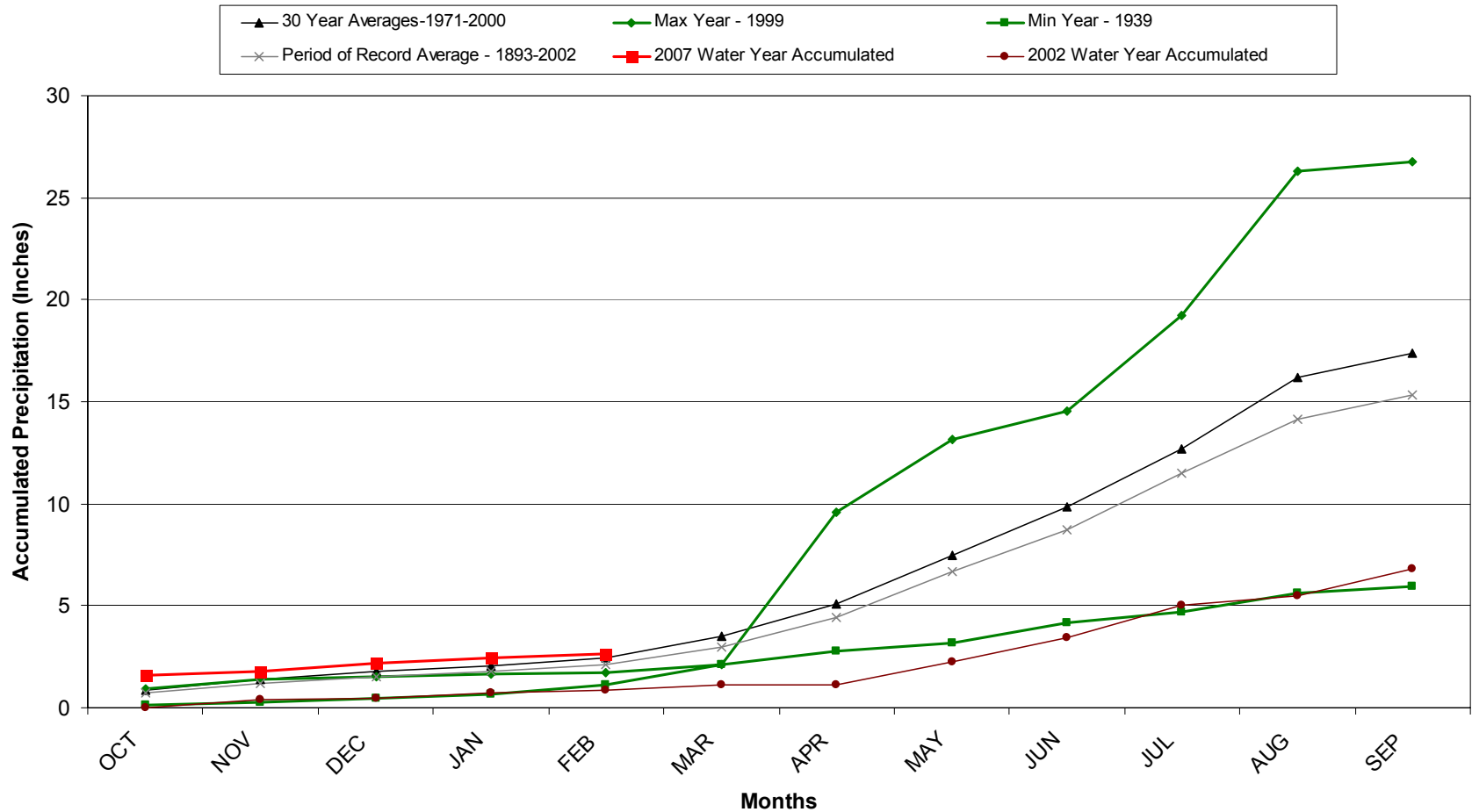
## Del Norte 2007 Water Year





# Division 5 – Colorado Springs

## Colorado Springs 2007 Water Year

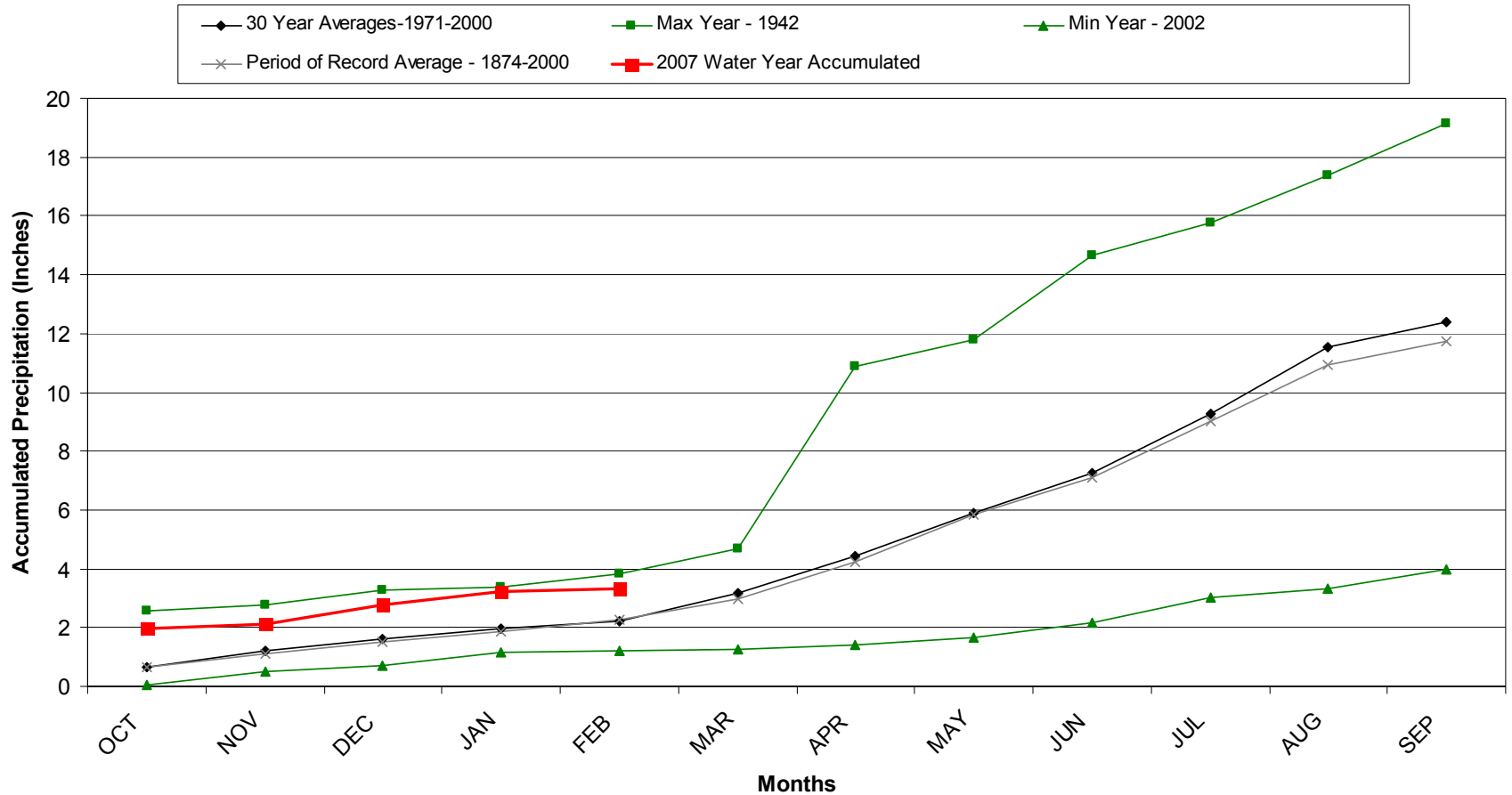






# Division 5 – Pueblo

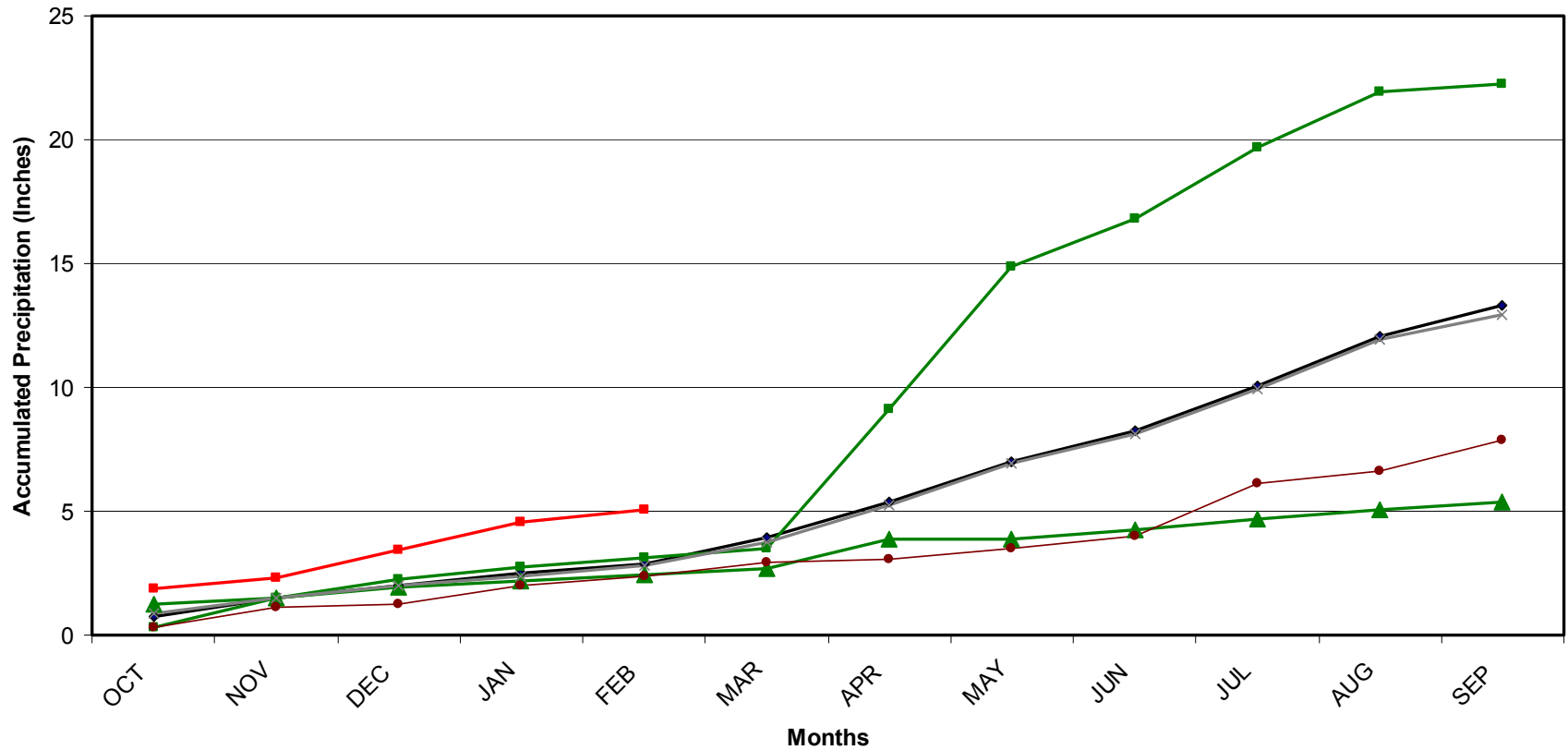
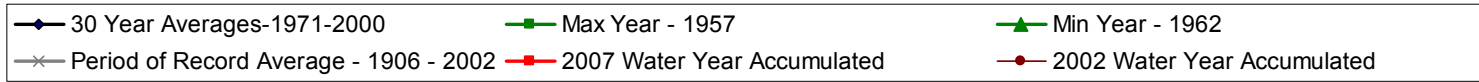
## Pueblo WSO 2007 Water Year





# Division 5 – Canon City

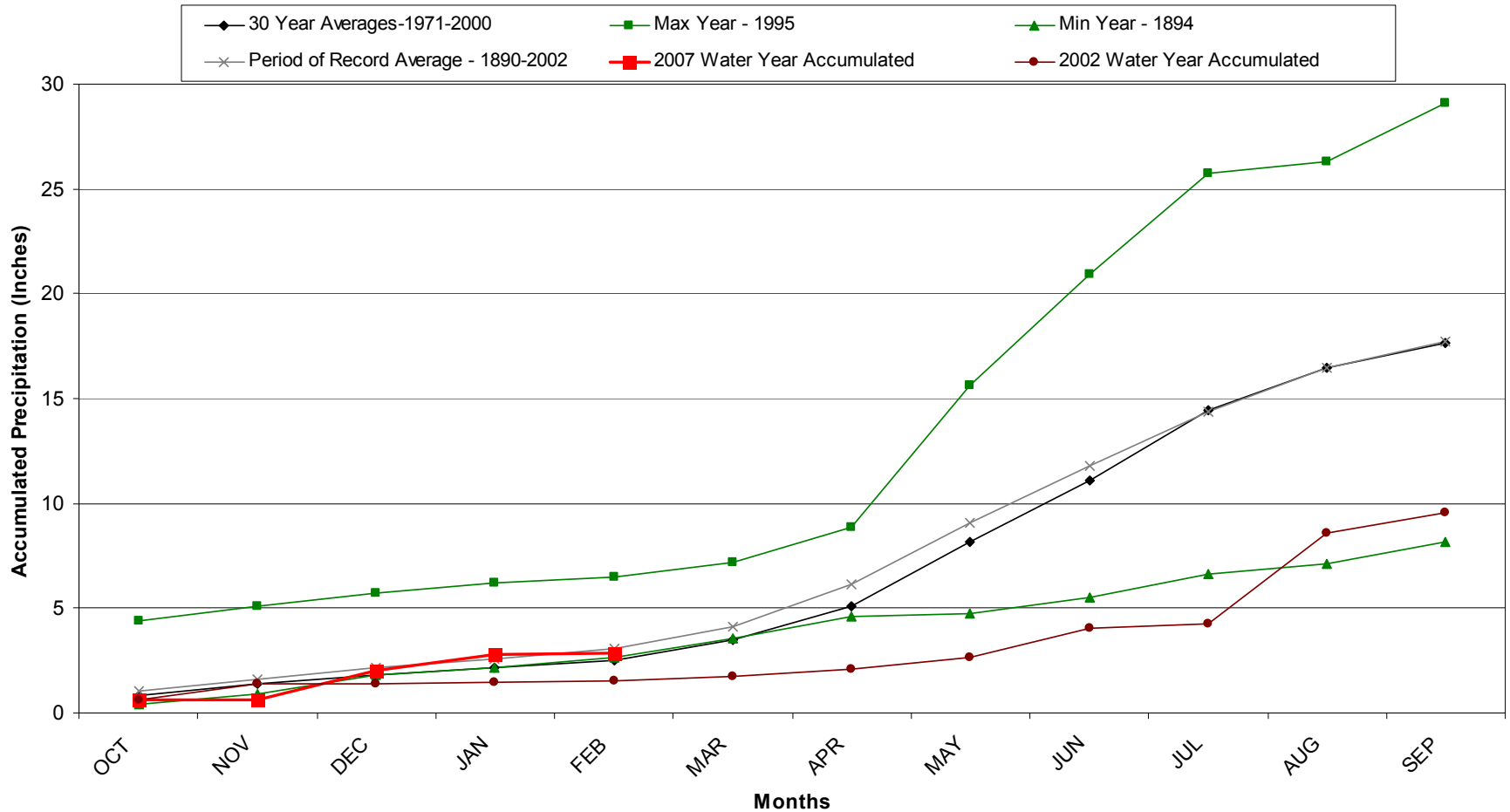
## Canon City 2007 Water Year





# Division 7 – Leroy

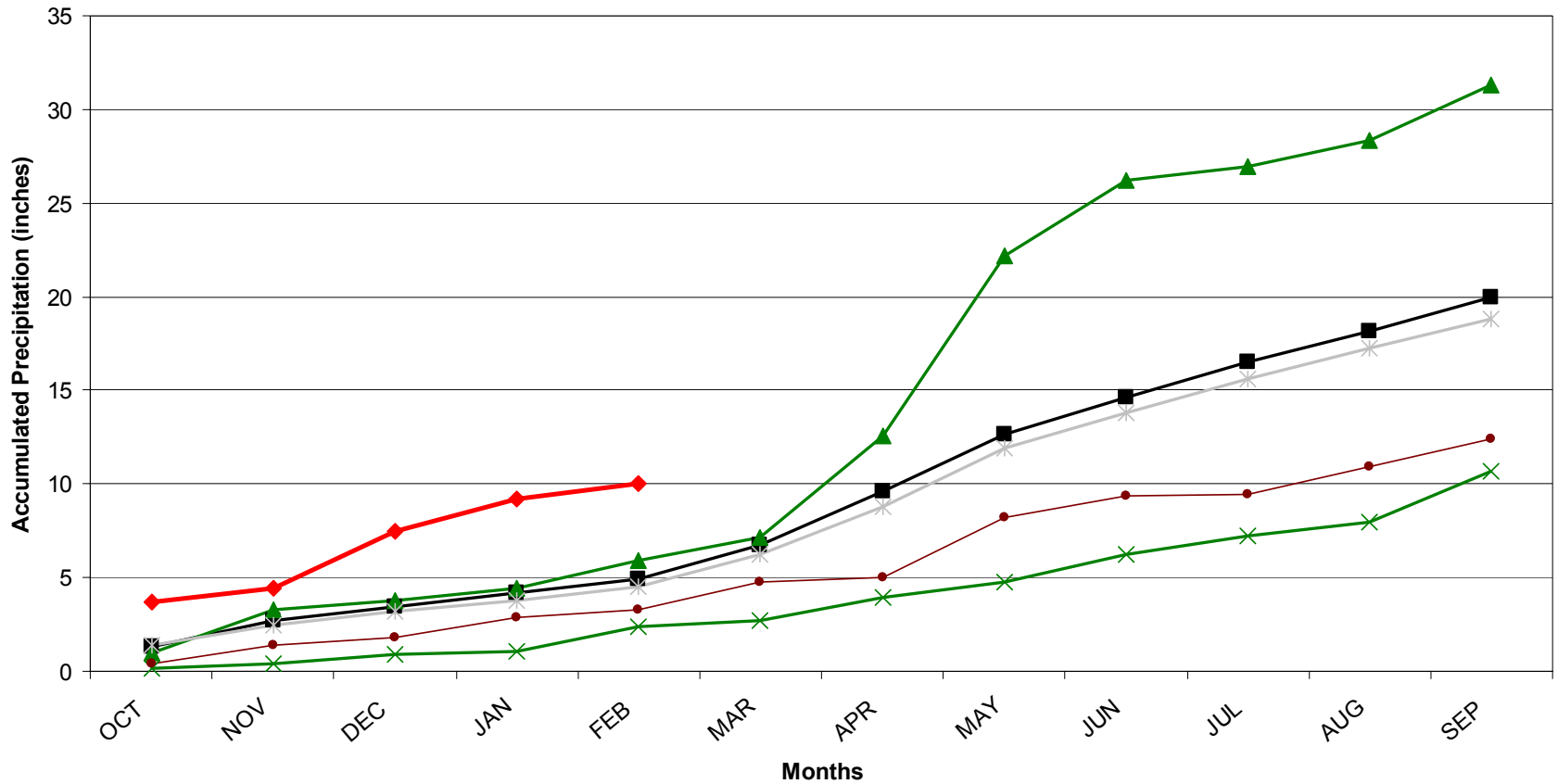
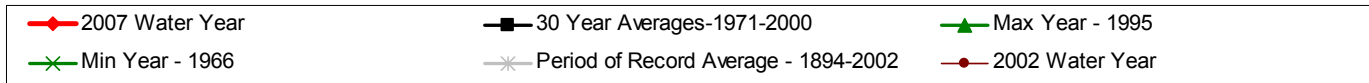
## Leroy 5SW 2007 Water Year





# Division 8 – Boulder

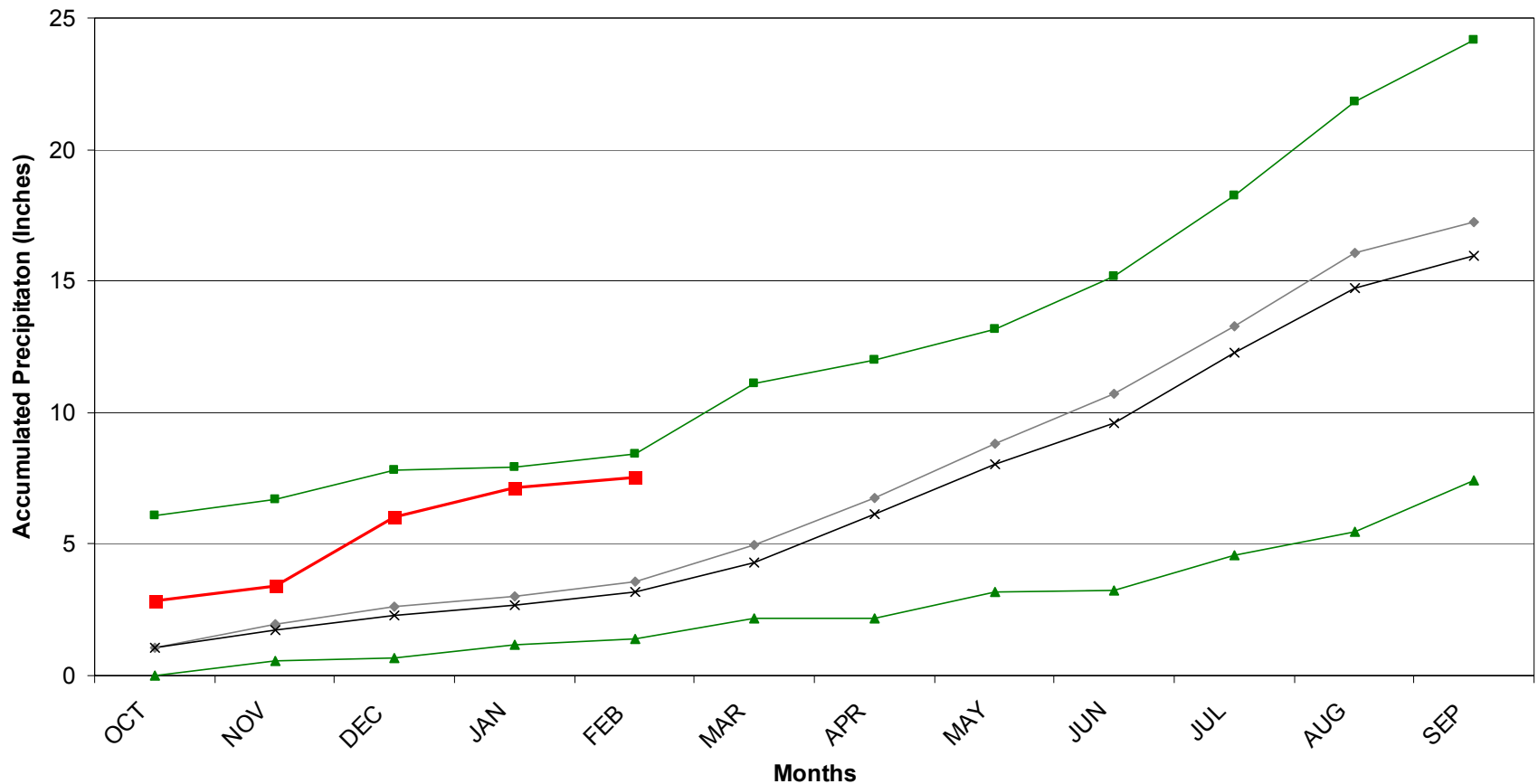
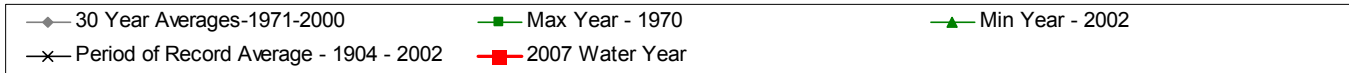
## Boulder 2007 Water Year





# Division 8 – Cheesman

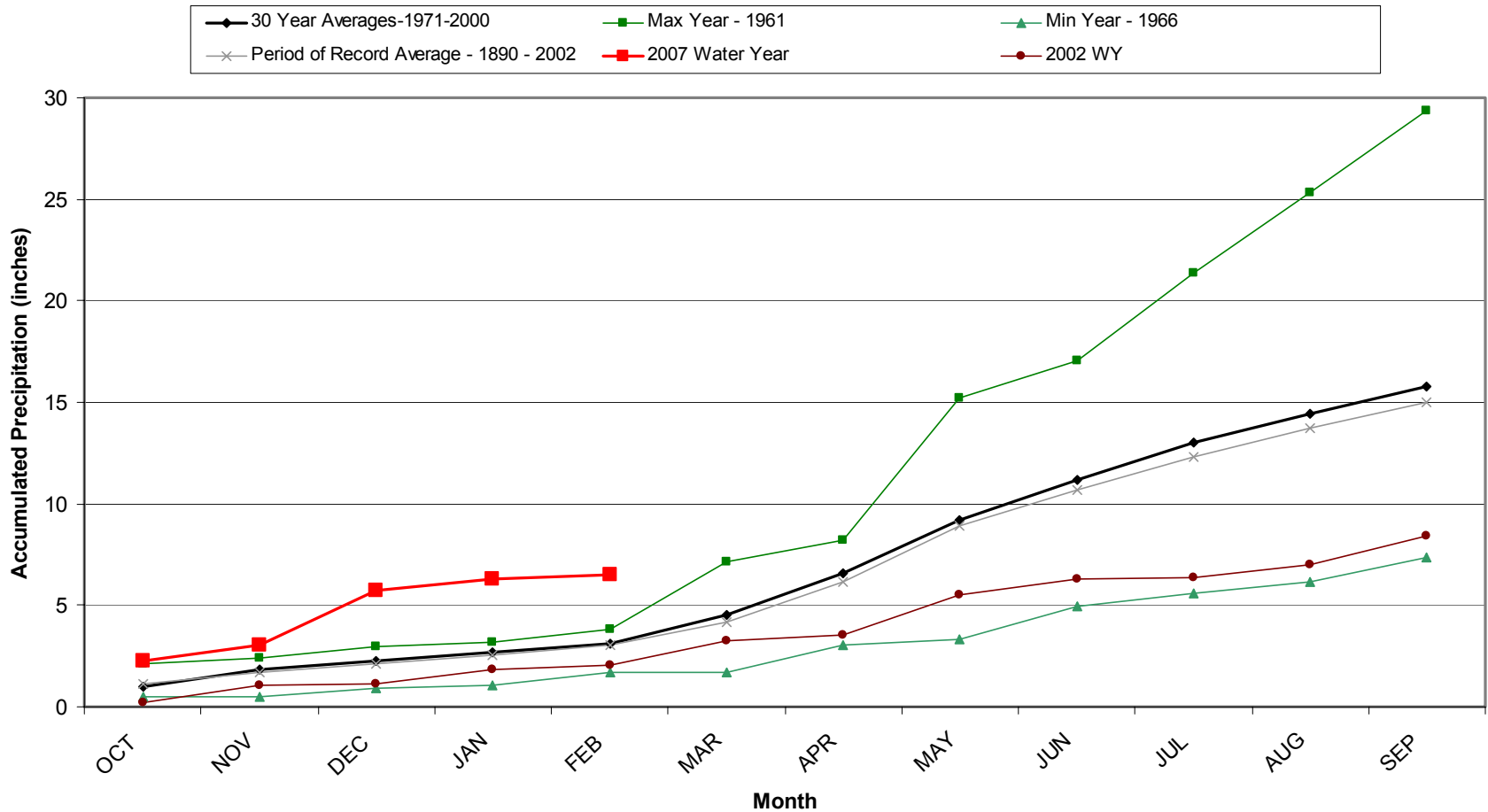
## Cheesman 2007 Water Year





# Division 8 – Fort Collins

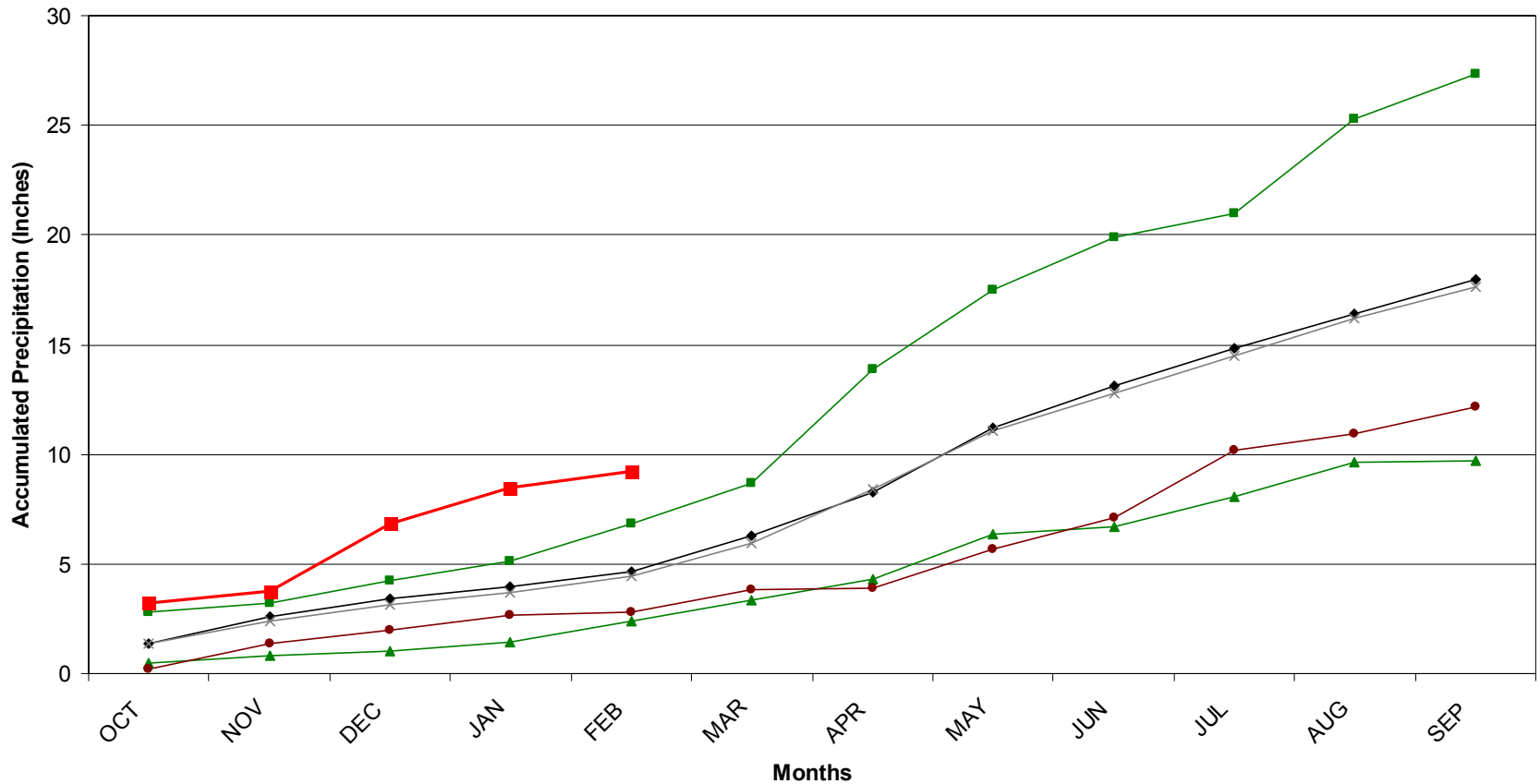
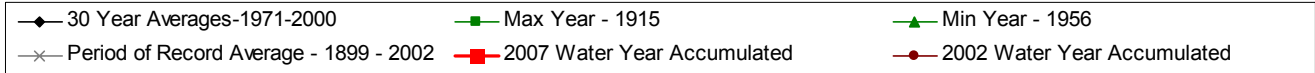
## Fort Collins 2007 Water Year





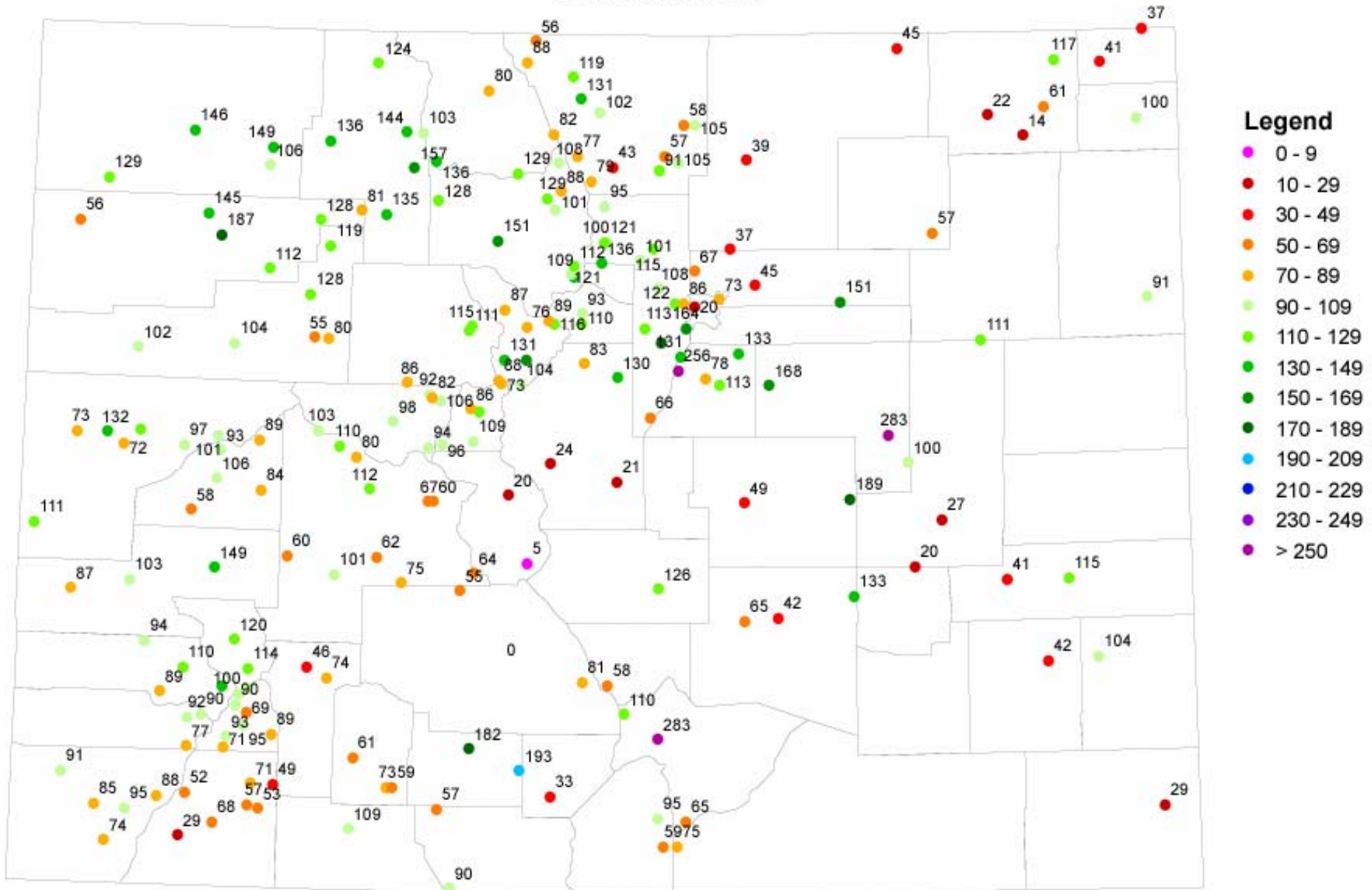
# Division 8 – Kassler

## Kassler 2007 Water Year





# COLORADO

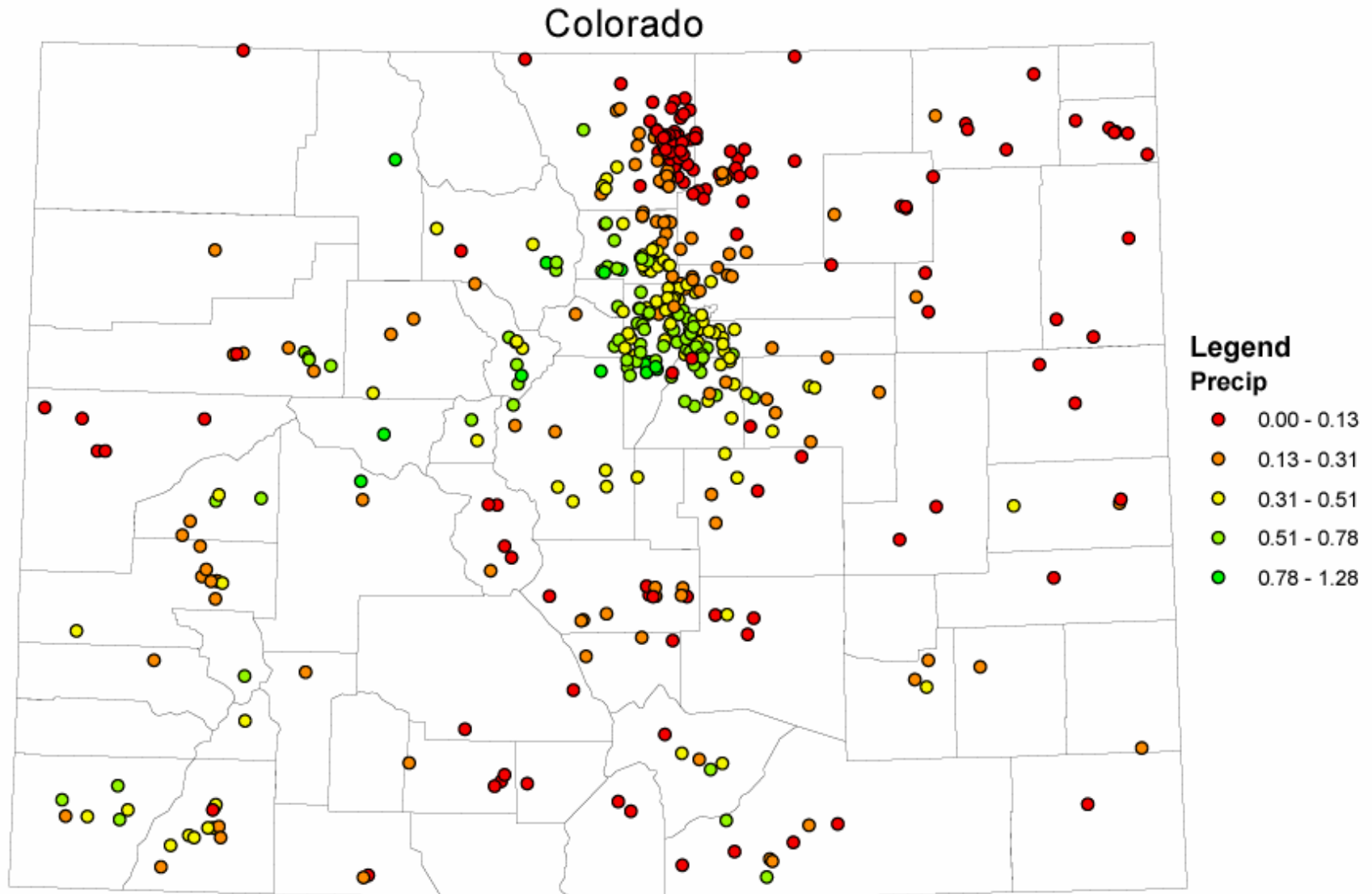


February 2007 Precipitation as a percent of the 1971-2000 average.





# CoCoRaHS Stations for March 1-14, 2007 precipitation totals



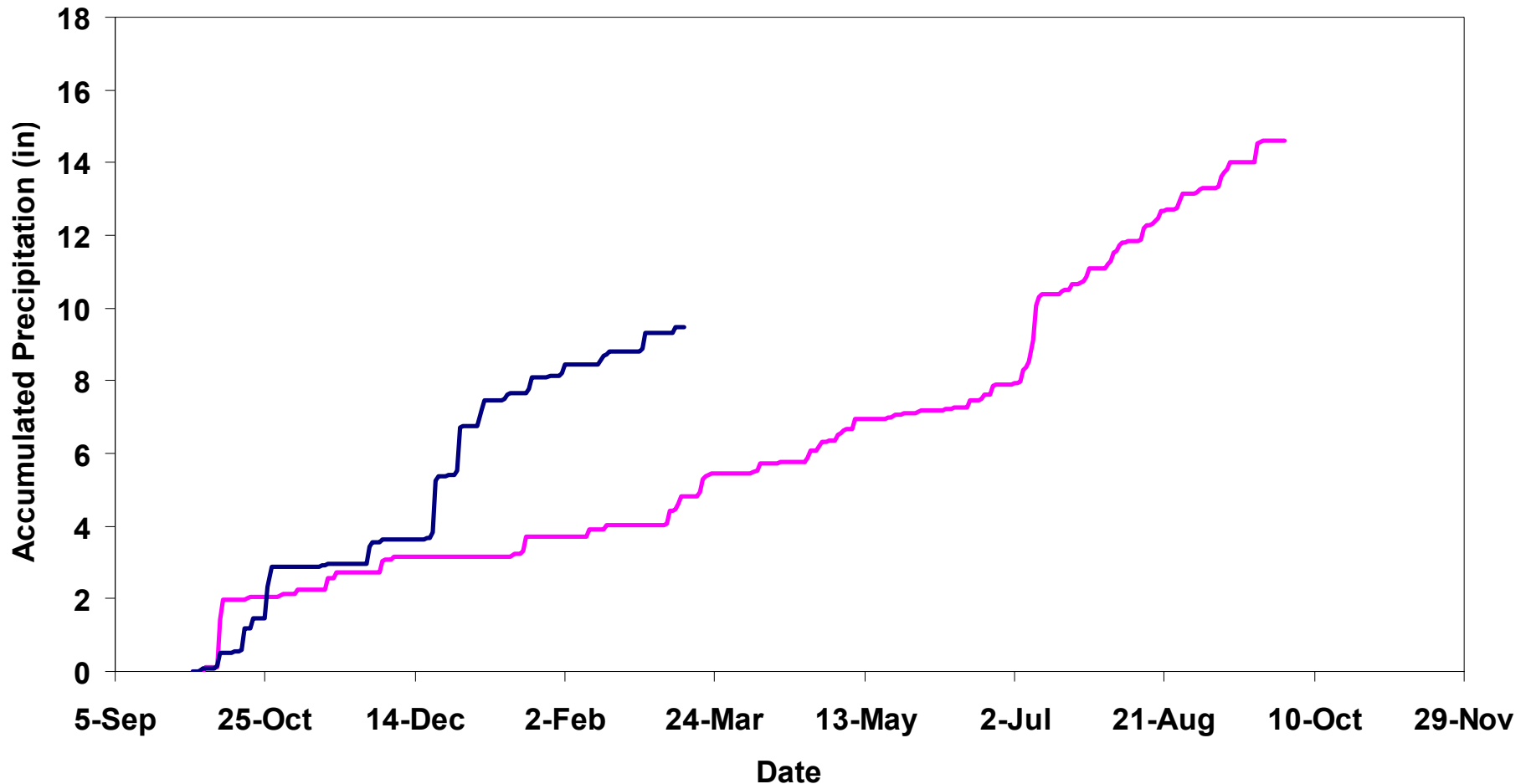
CoCoRaHS March 1-14, 2007 Precipitation Reports



# CoCoRaHS Accumulated Precipitation

Jefferson County, CO Accumulated Precipitation WY 2006 and 2007

— Accumulated Precipitation WY 2006    — Accumulated Precipitation WY 2007

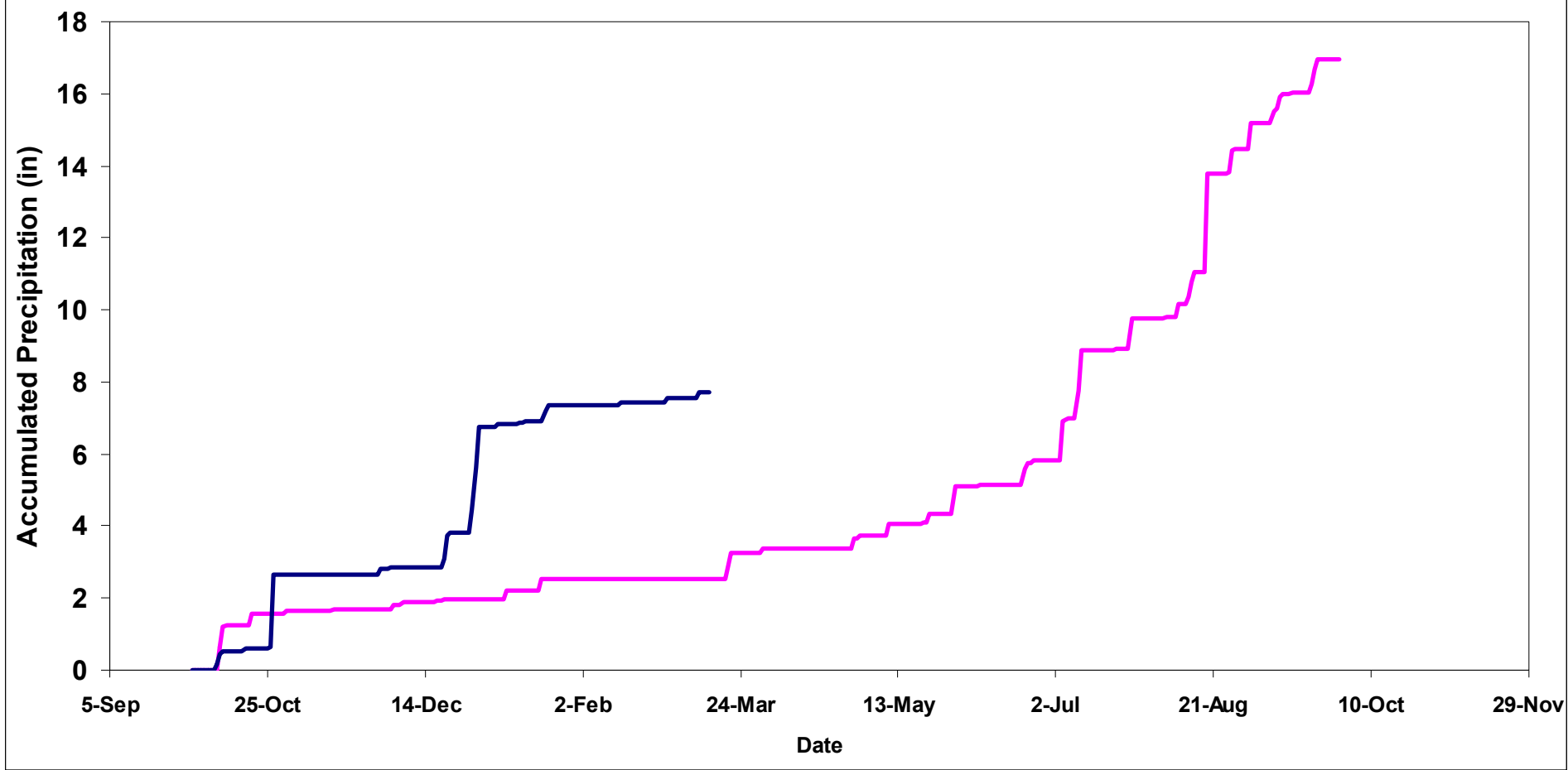




# CoCoRaHS Accumulated Precipitation

Otero County, CO Accumulated Precipitation WY 2006 and 2007

— Accumulated Precipitation WY 2006    — Accumulated Precipitation WY 2007













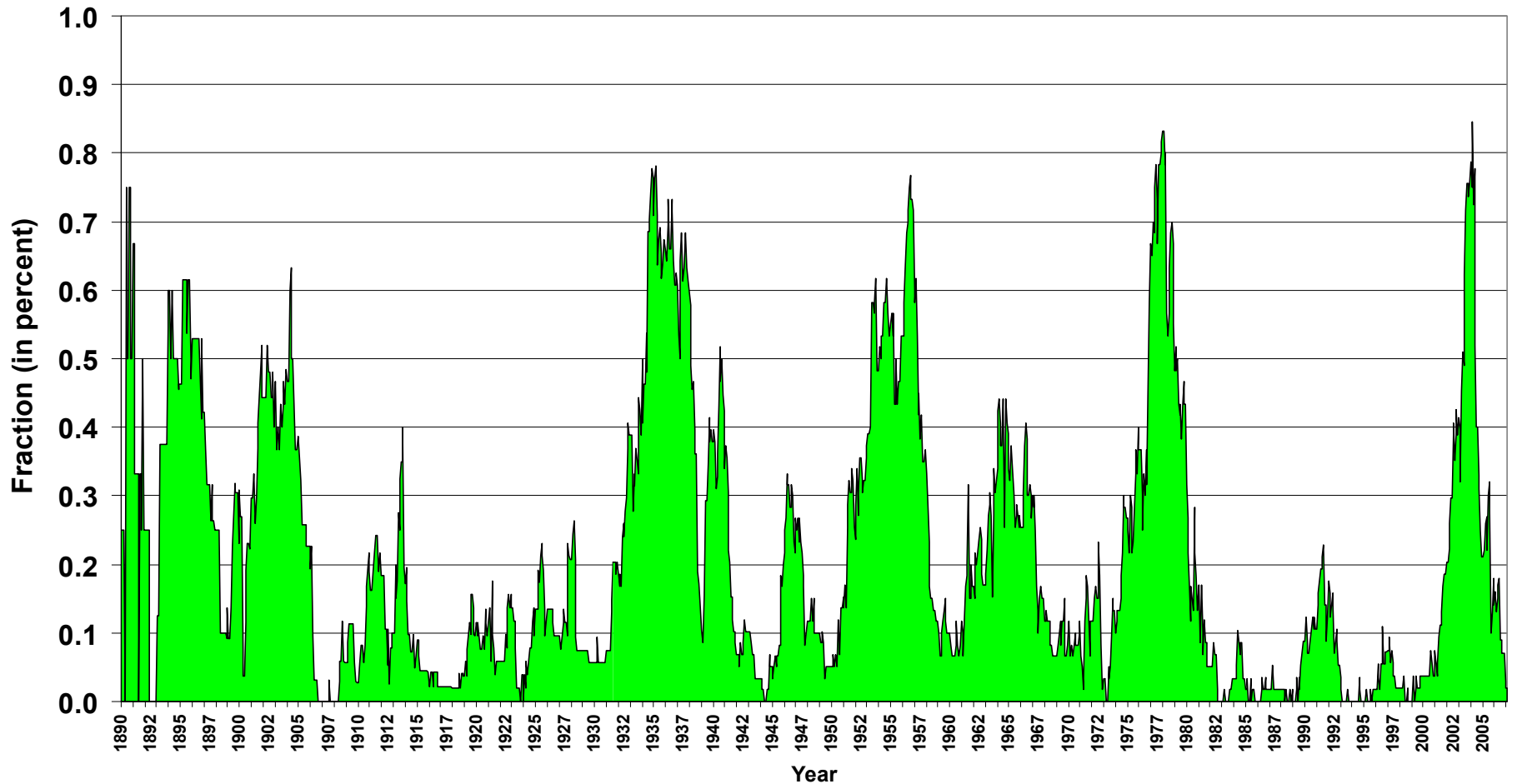




# Standardized Precipitation Index

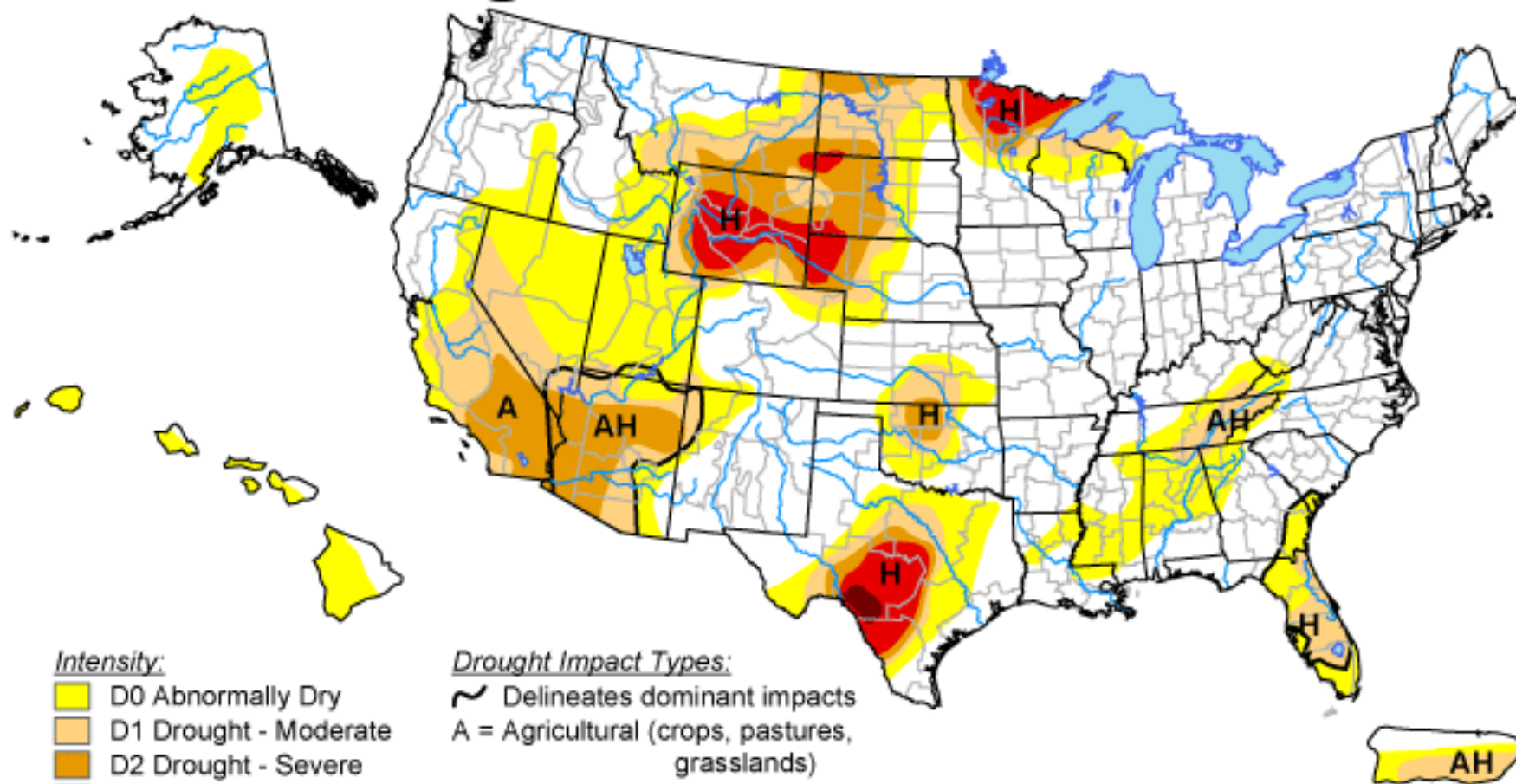
## Fraction of Colorado in Drought Based on 48 month SPI

(1890 - Feb 2007)



# U.S. Drought Monitor

March 6, 2007  
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>



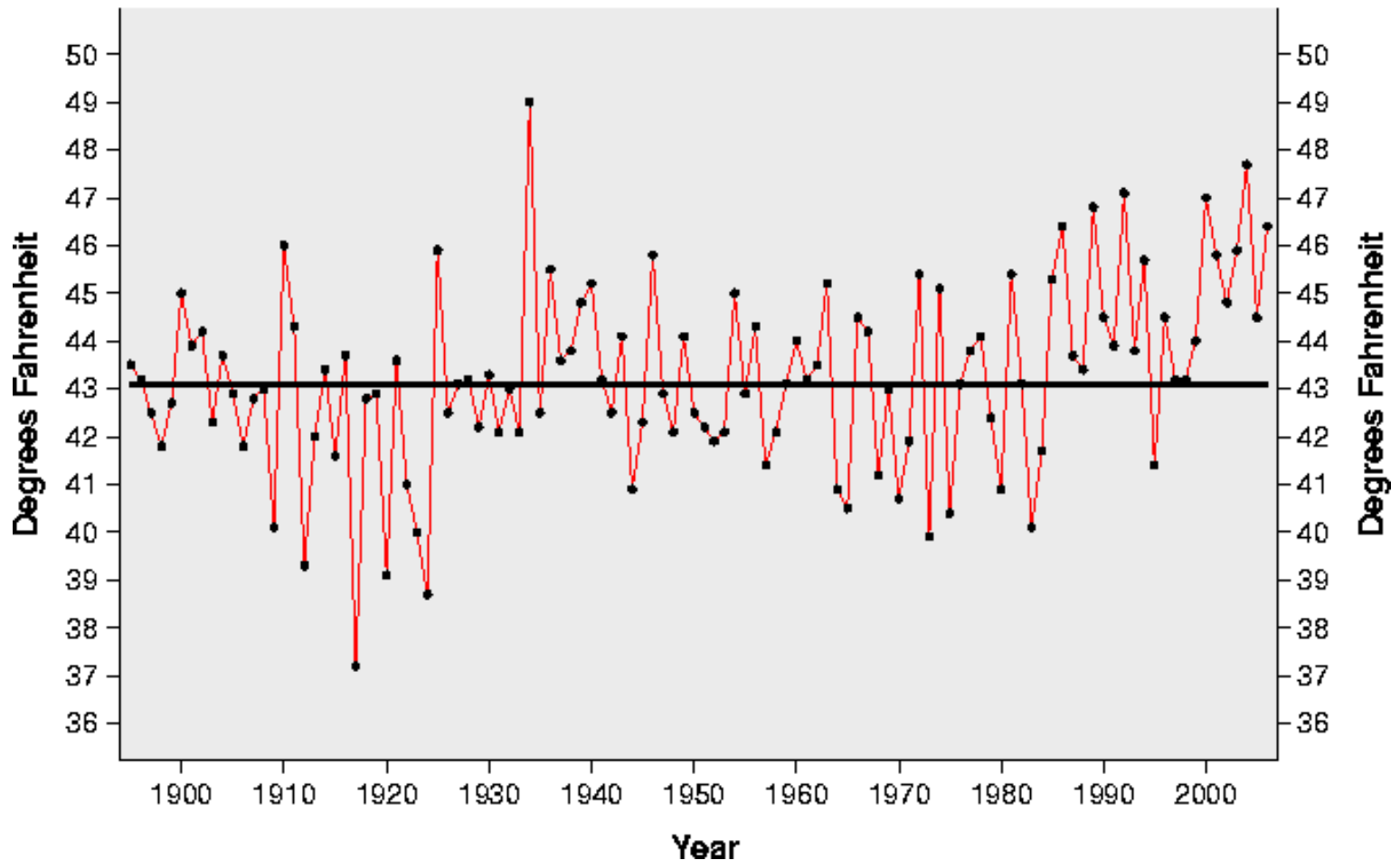
Released Thursday, March 8, 2007  
Author: Douglas Le Comte, CPC/NOAA



# Spring (Mar-May) Average Temperatures for Colorado

— Actual Temperature  
— Average Temperature

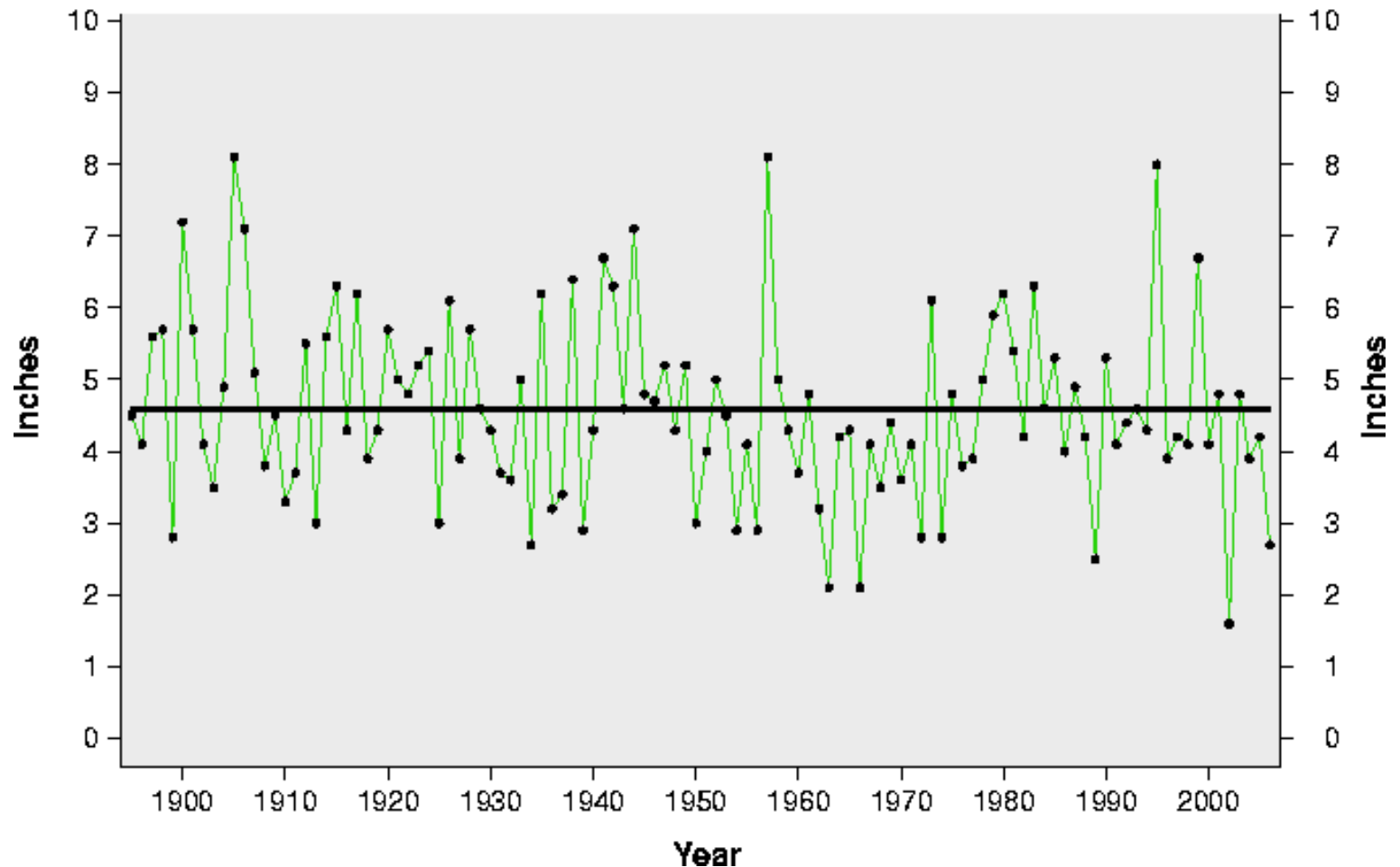
Period of Record 1895-2006





# Spring (Mar-May) Precipitation for Colorado (1895-2006)

— Actual Precipitation  
— Average Precipitation







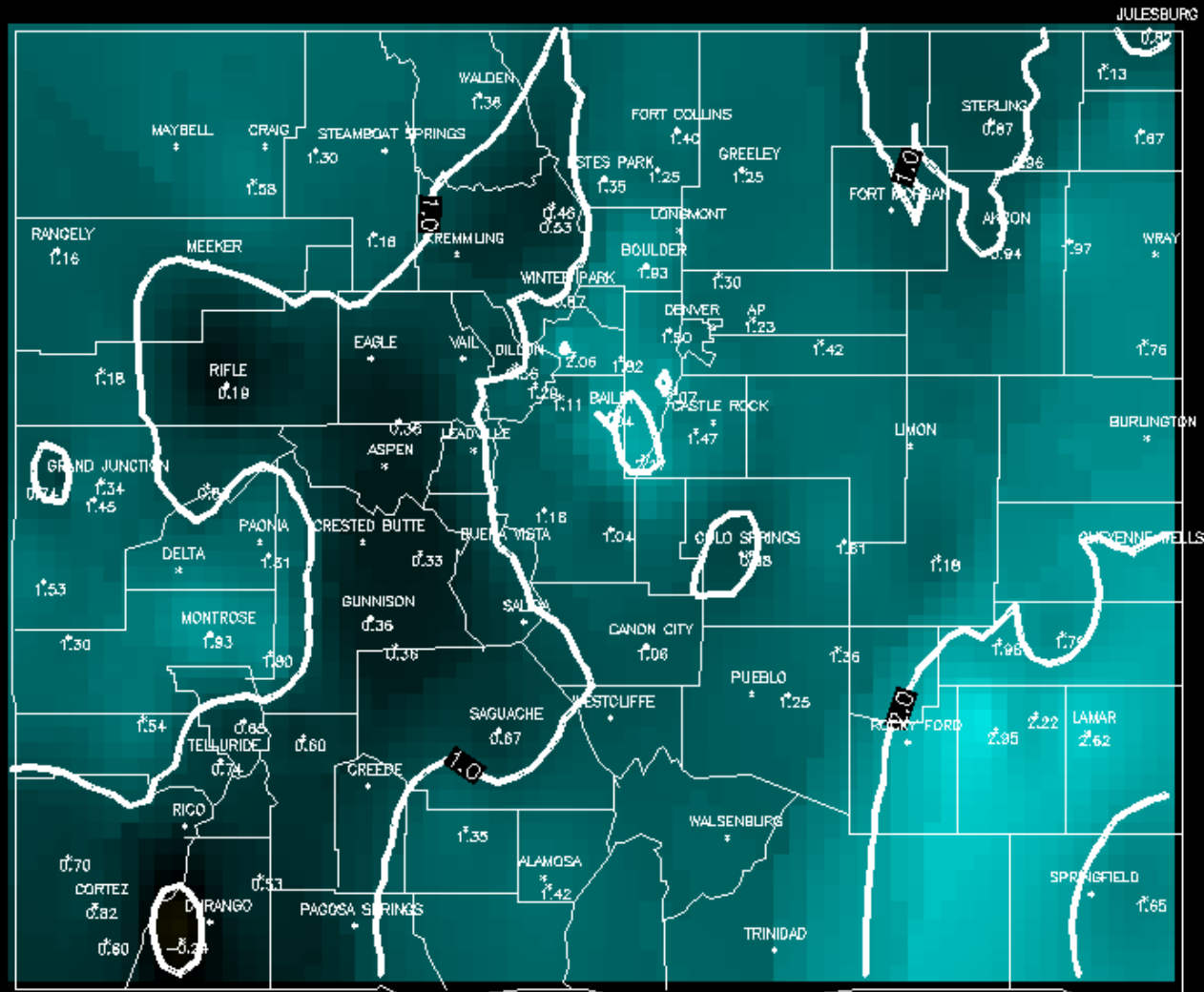




# Projected Conditions at 0.8 Probability Level 12 Month SPI at 6 months

Colorado

2/2007 12 mon. SPI – Projected 6 mon. at P=0.80



91 % < 2.0	0 % < -1.0
25 % < 1.0	0 % < -2.0
0 % < 0.0	0 % < -3.0

Produced by:  
Colorado Climate Center  
Fort Collins, CO



# Colorado Climate Center

Data and Power Point Presentations available for downloading

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

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

