

# Climate Update

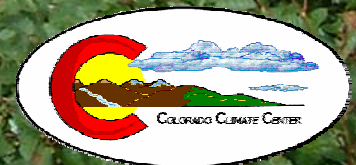
**Nolan Doesken, State Climatologist**  
**Atmospheric Science Department**  
**Colorado State University**

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

**Presented to Water Availability Task Force,**  
**Denver, CO, April 18, 2007**

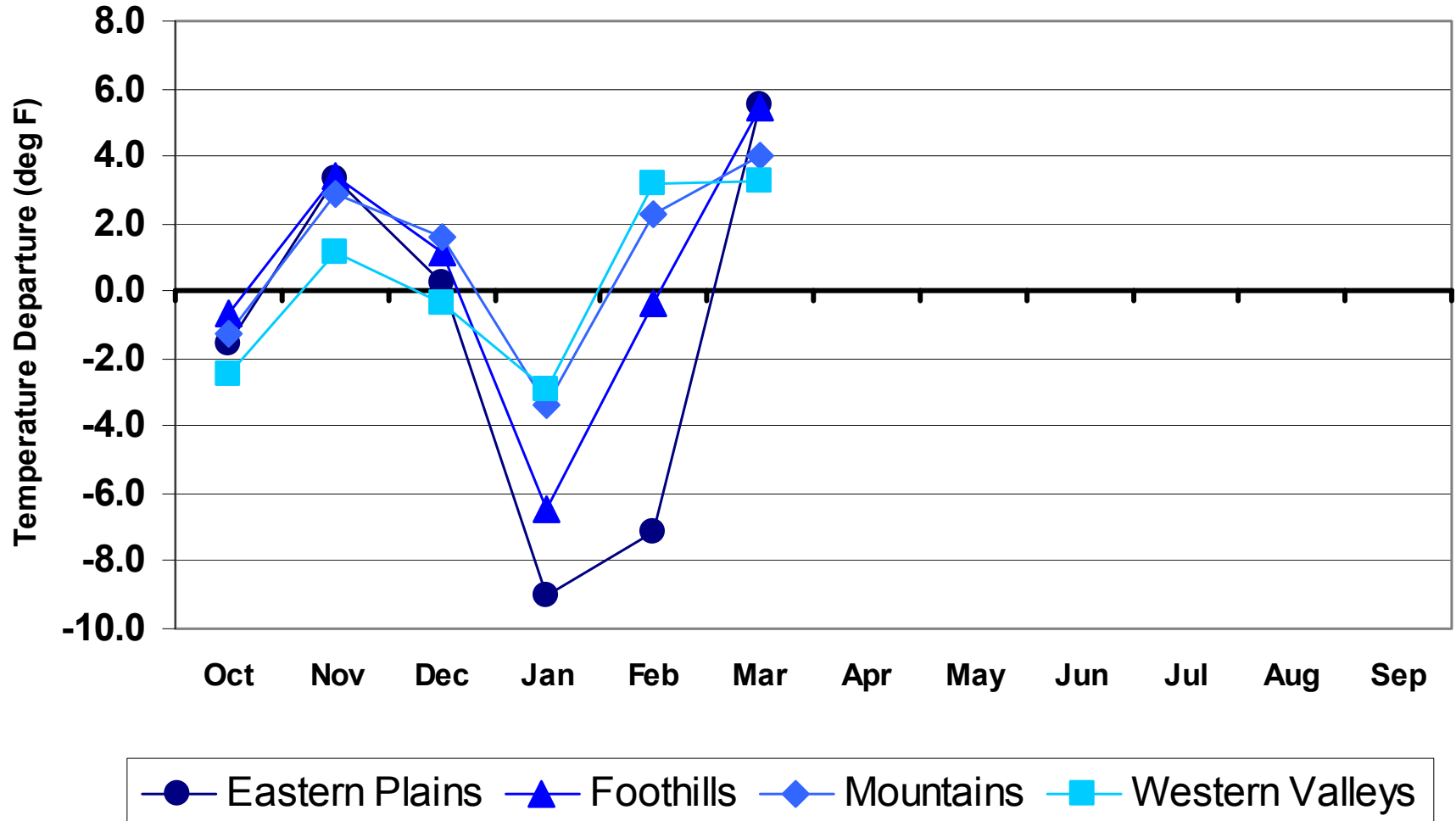
**Prepared by Odie Bliss and Wendy Ryan**

**Colorado  
State  
University**  
*Knowledge to Go Places*



# Water Year 2007 Temperature Departures

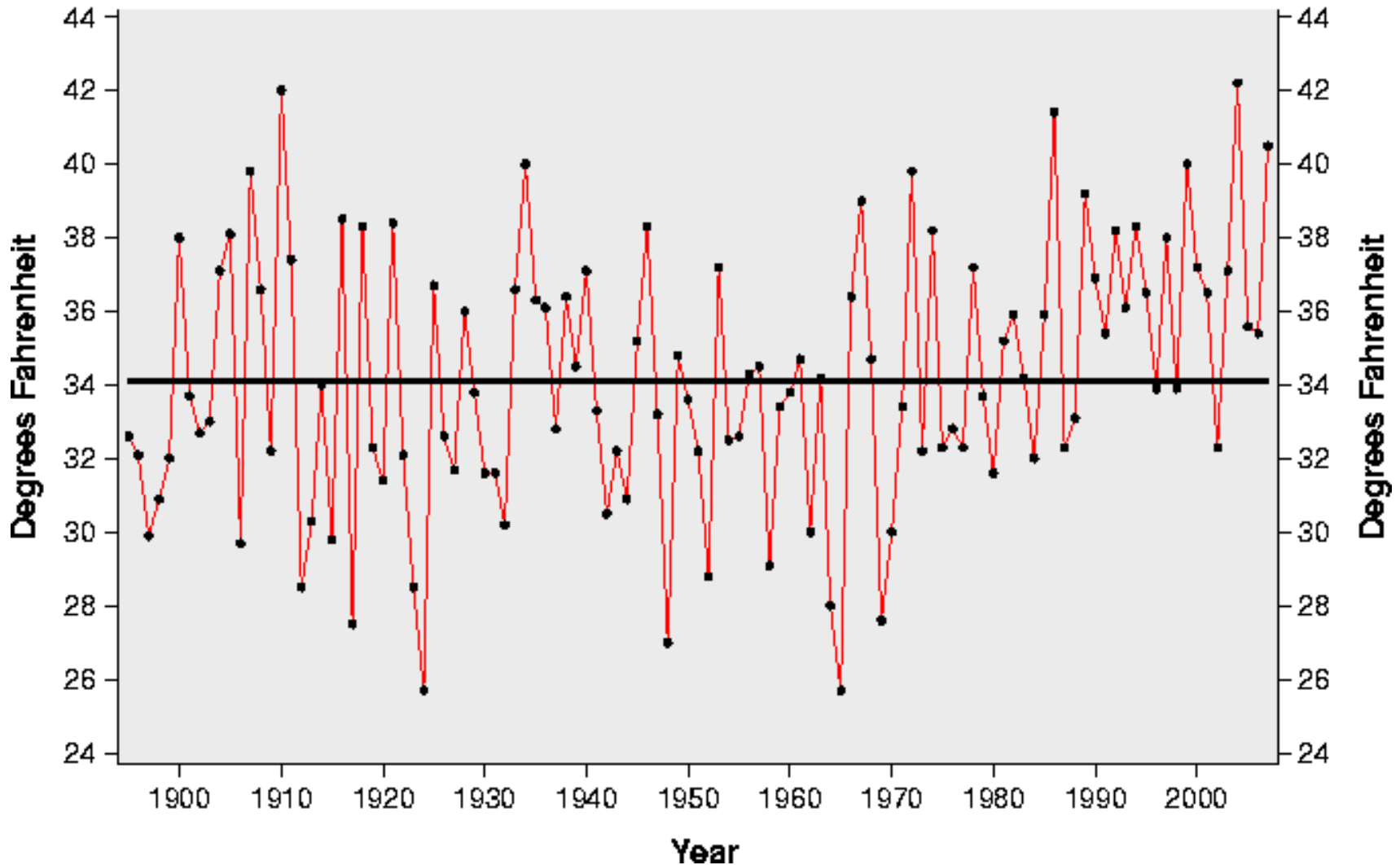
## Water Year 2007 Temperature Departures



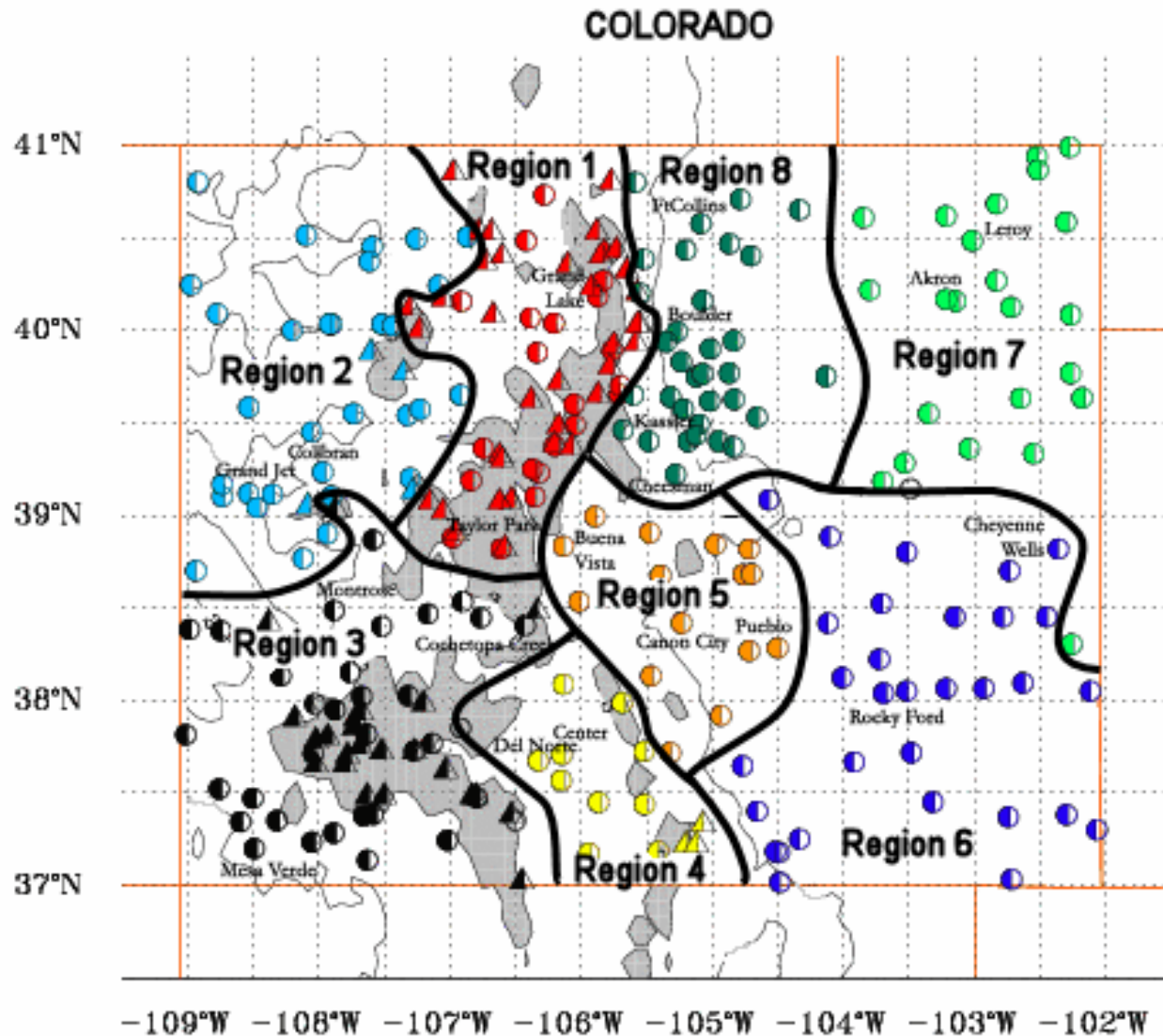
# March Average Temperature History for Colorado

— Actual Temperature  
— Average Temperature

Period of record 1895-2007

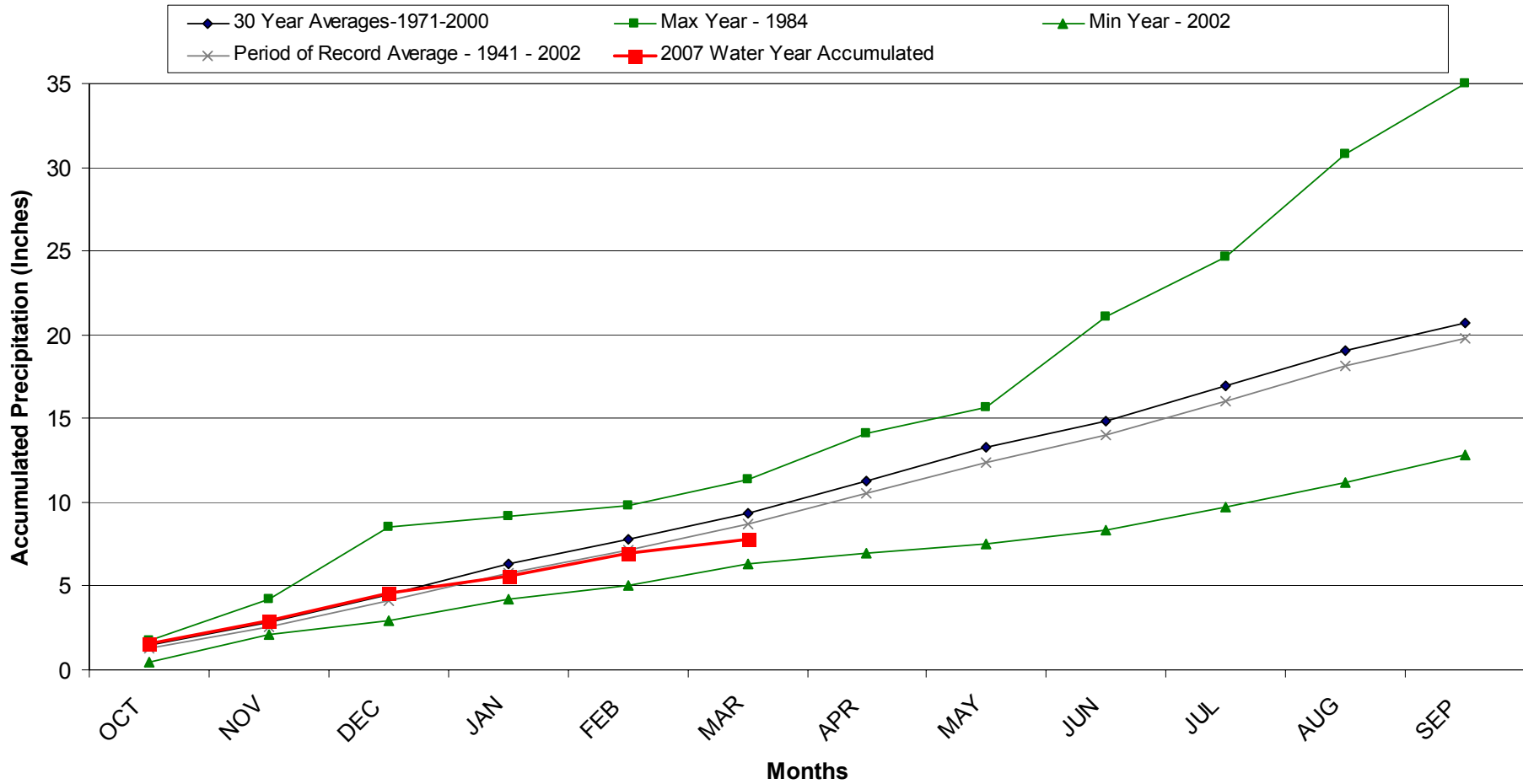


# Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO



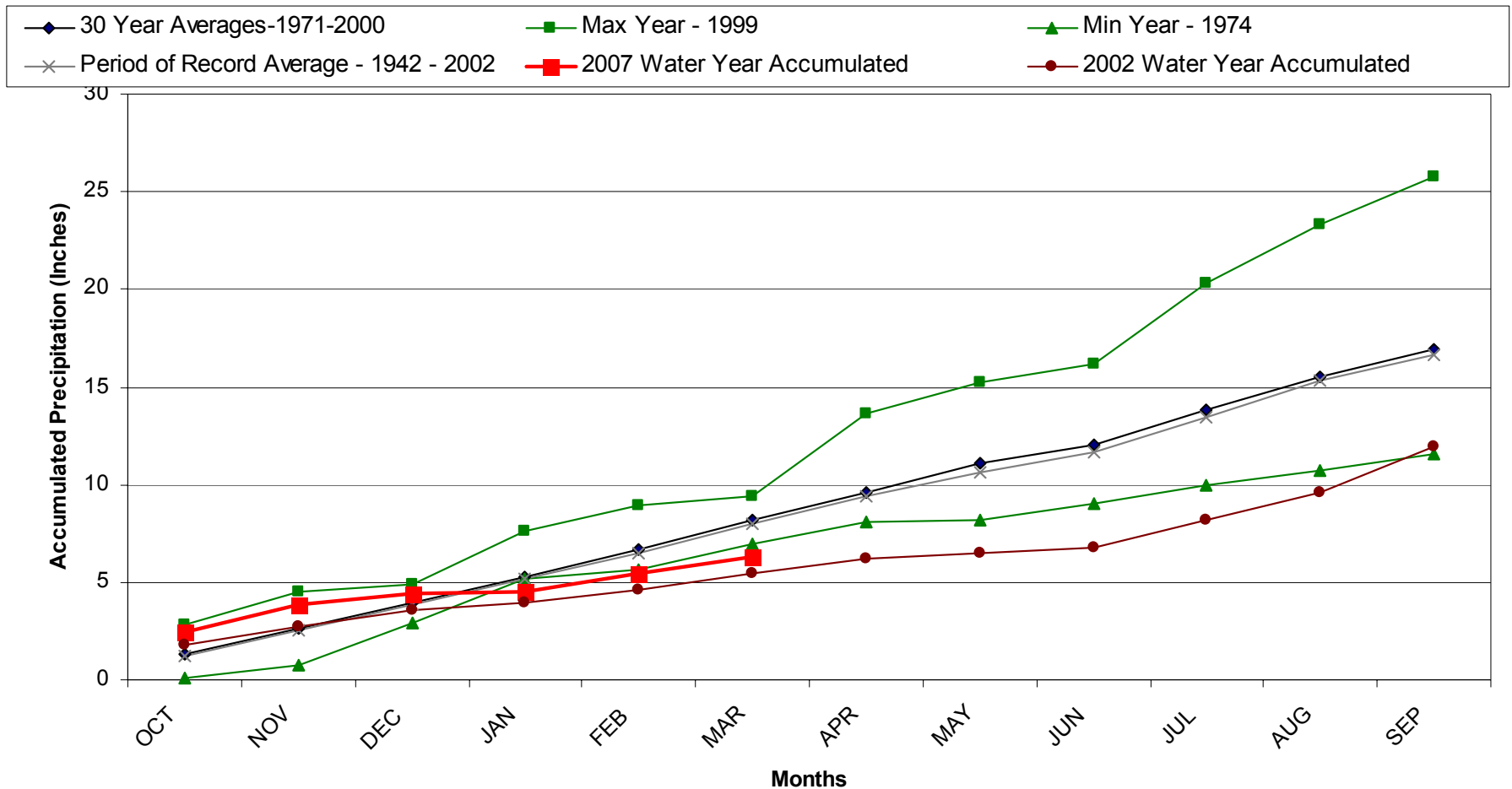
# Division 1- Grand Lake 1NW

## Grand Lake 1 NW 2007 Water Year



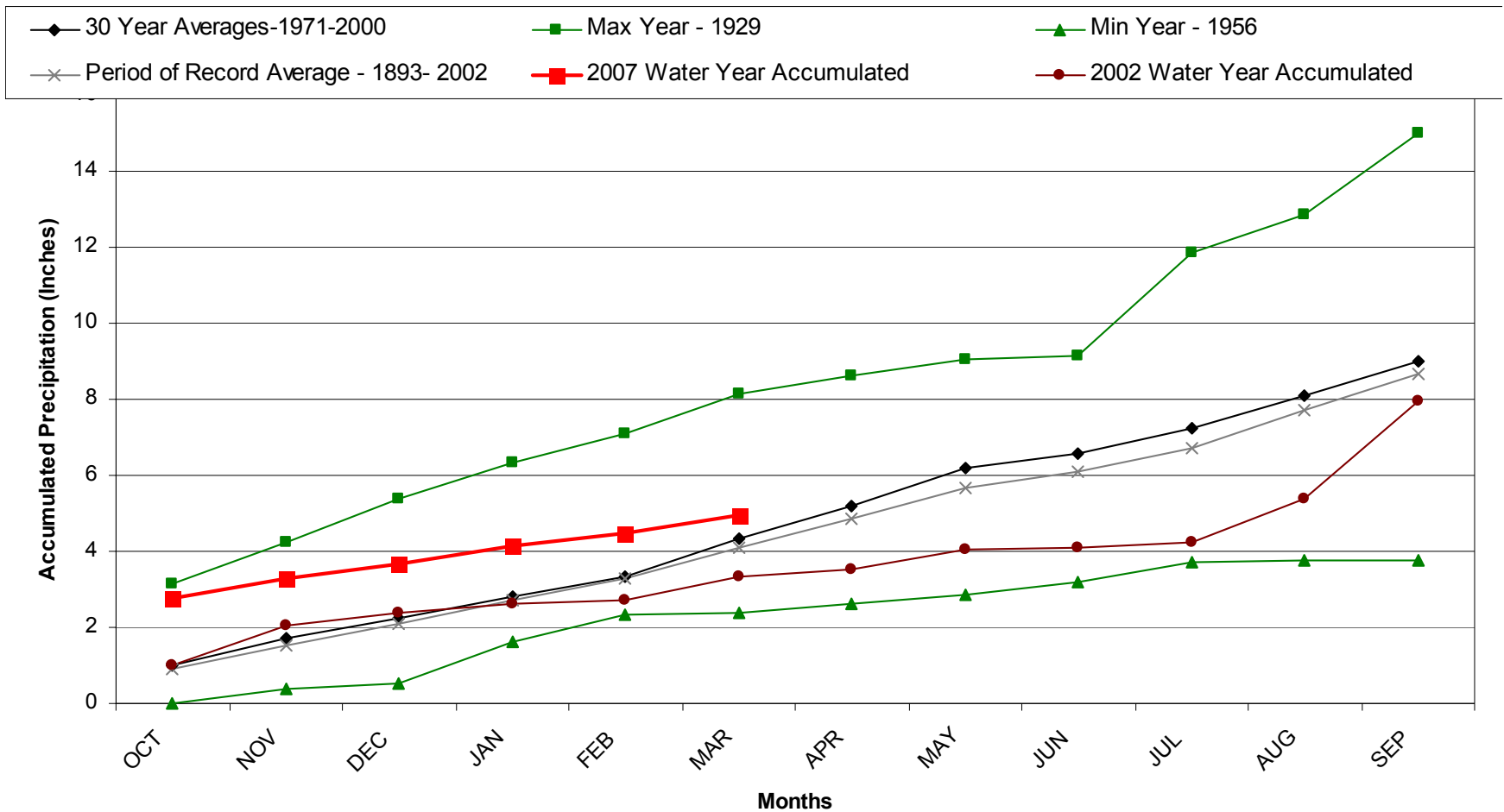
# Division 1 – Taylor Park

## Taylor Park 2007 Water Year



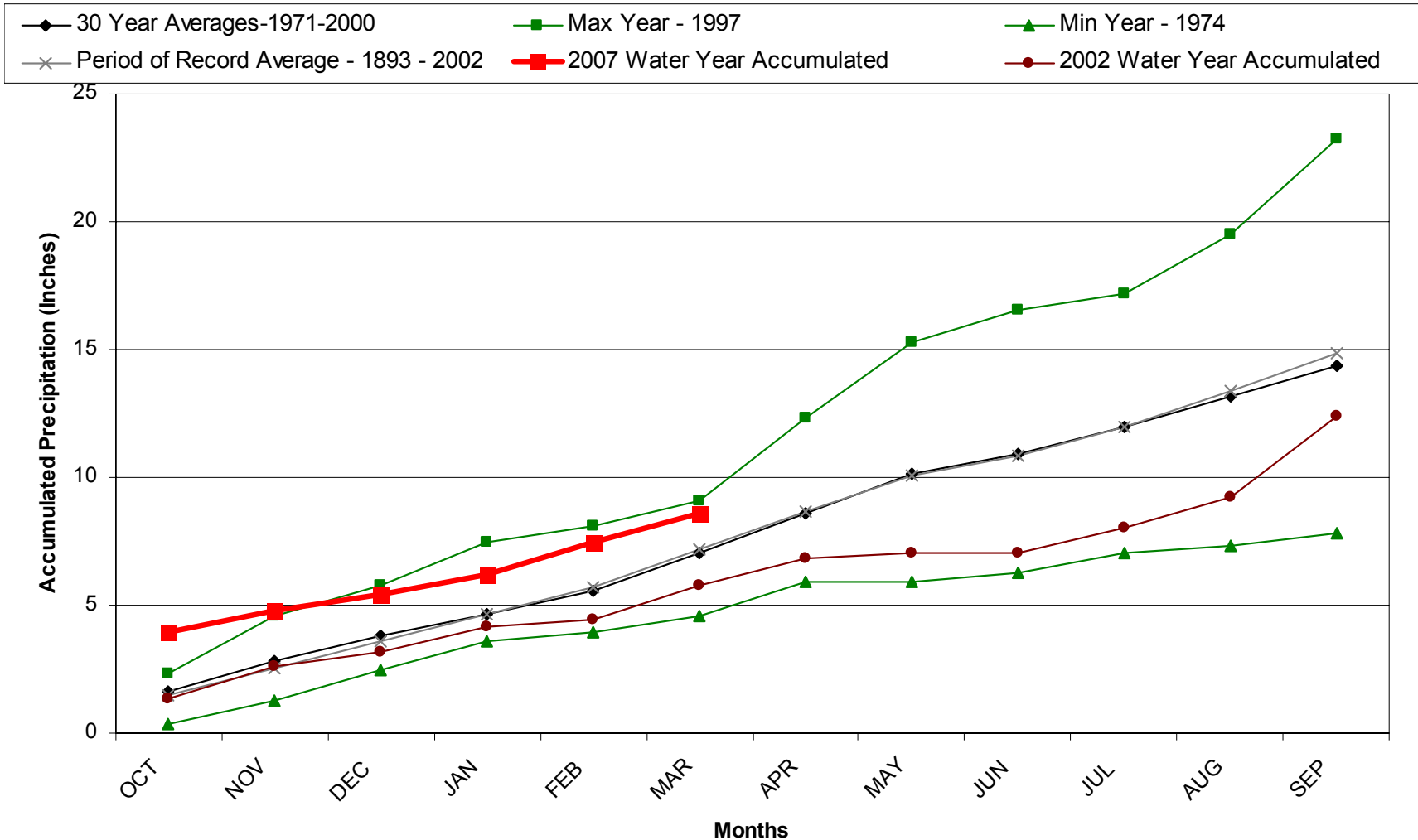
# Division 2 – Grand Junction

## Grand Junction WSFO 2007 Water Year



# Division 2- Collbran

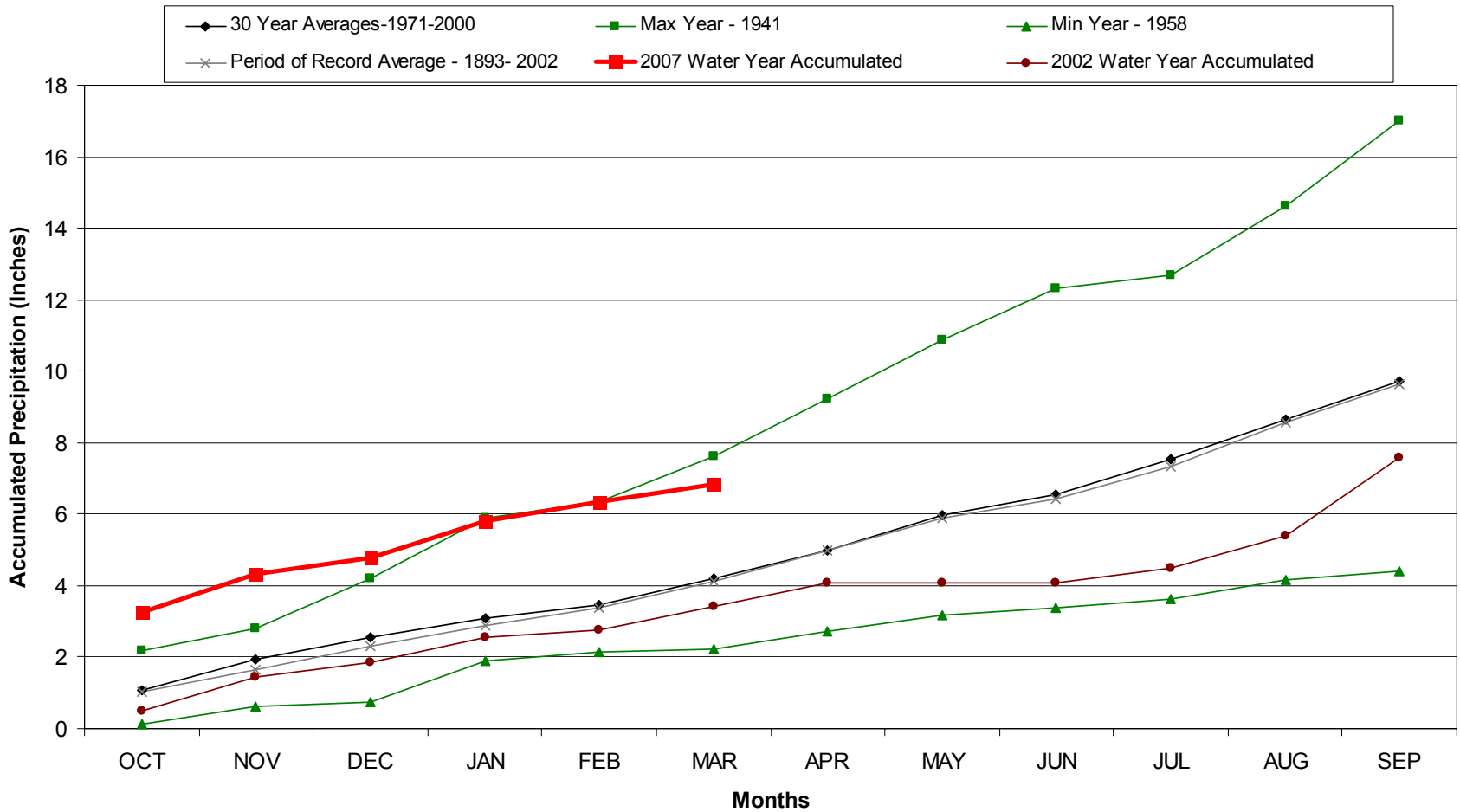
## Collbran 2SW 2007 Water Year





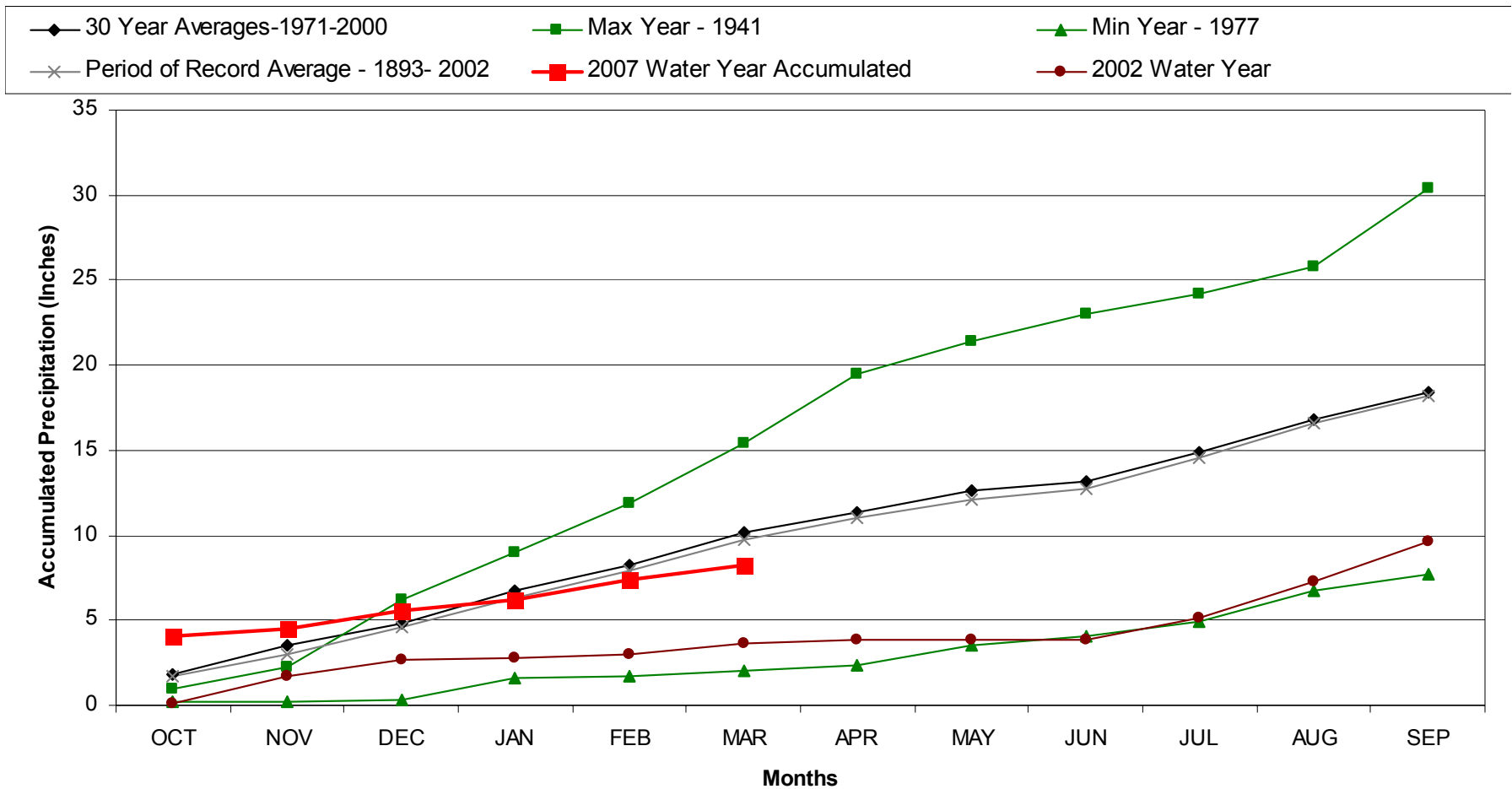
# Division 3 – Montrose

## Montrose #2 2007 Water Year



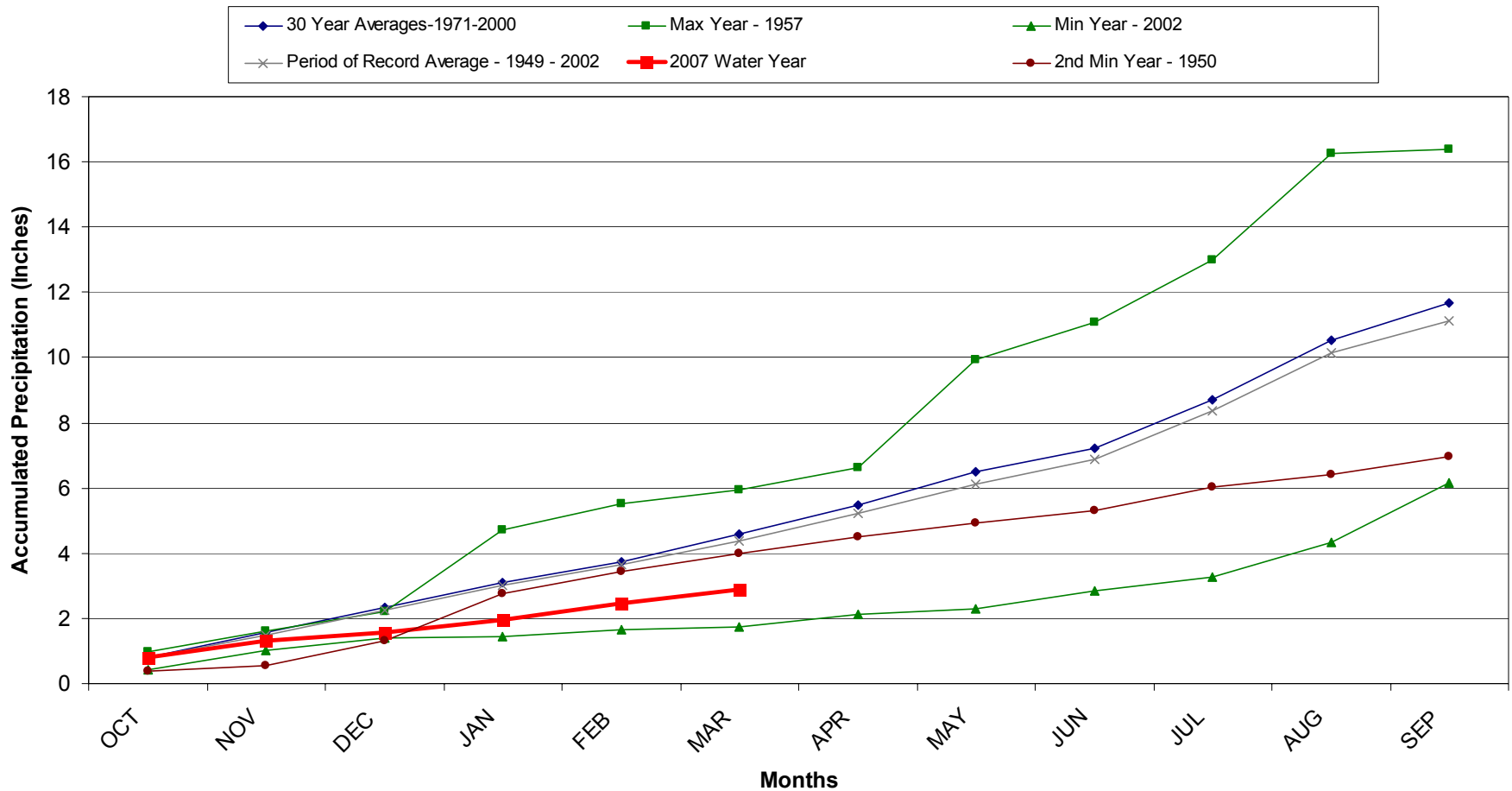
# Division 3 – Mesa Verde

## Mesa Verde NP 2007 Water Year



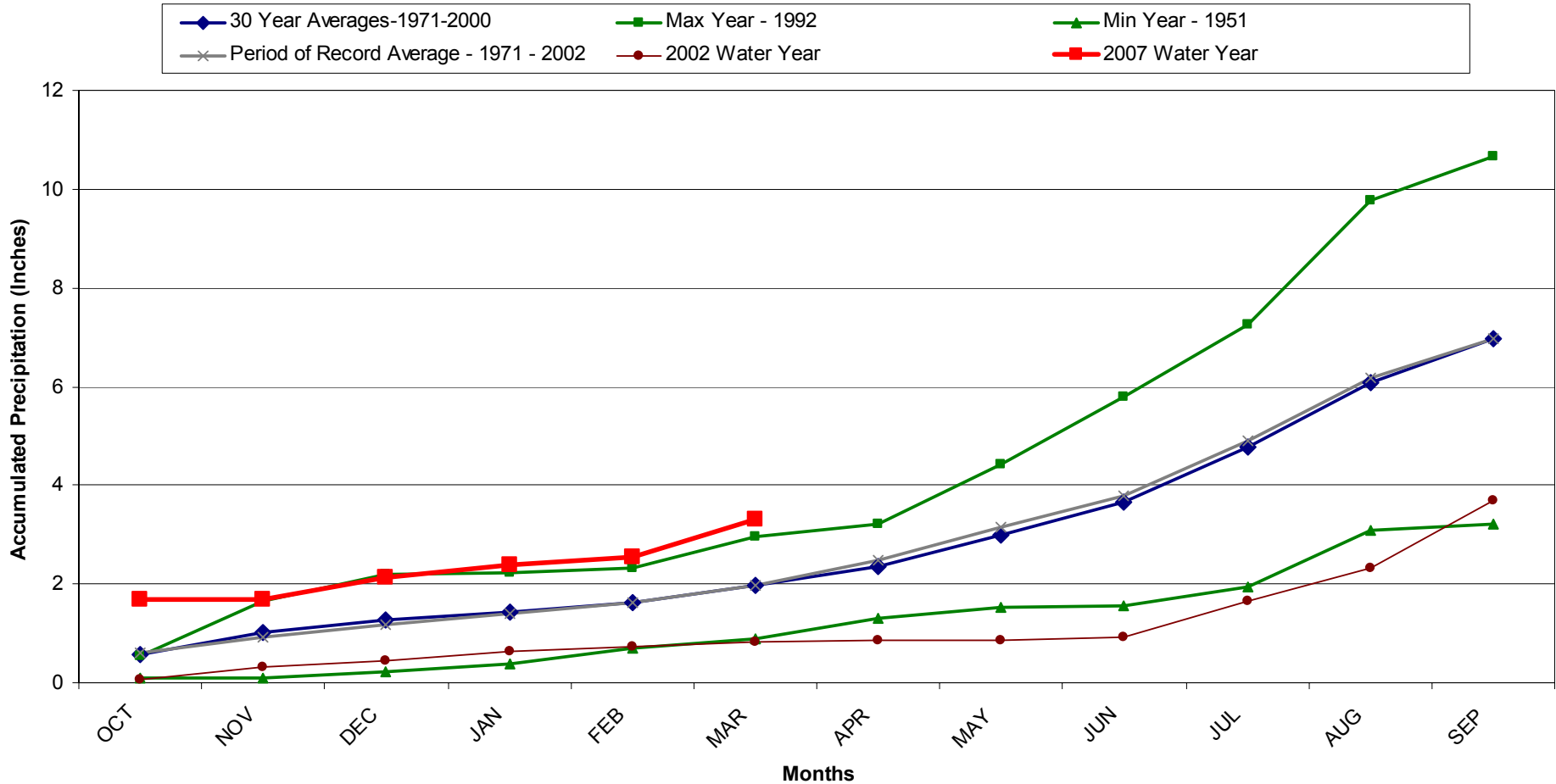
# Division 3 – Cochetopa Creek

## Cochetopa Creek 2007 Water Year



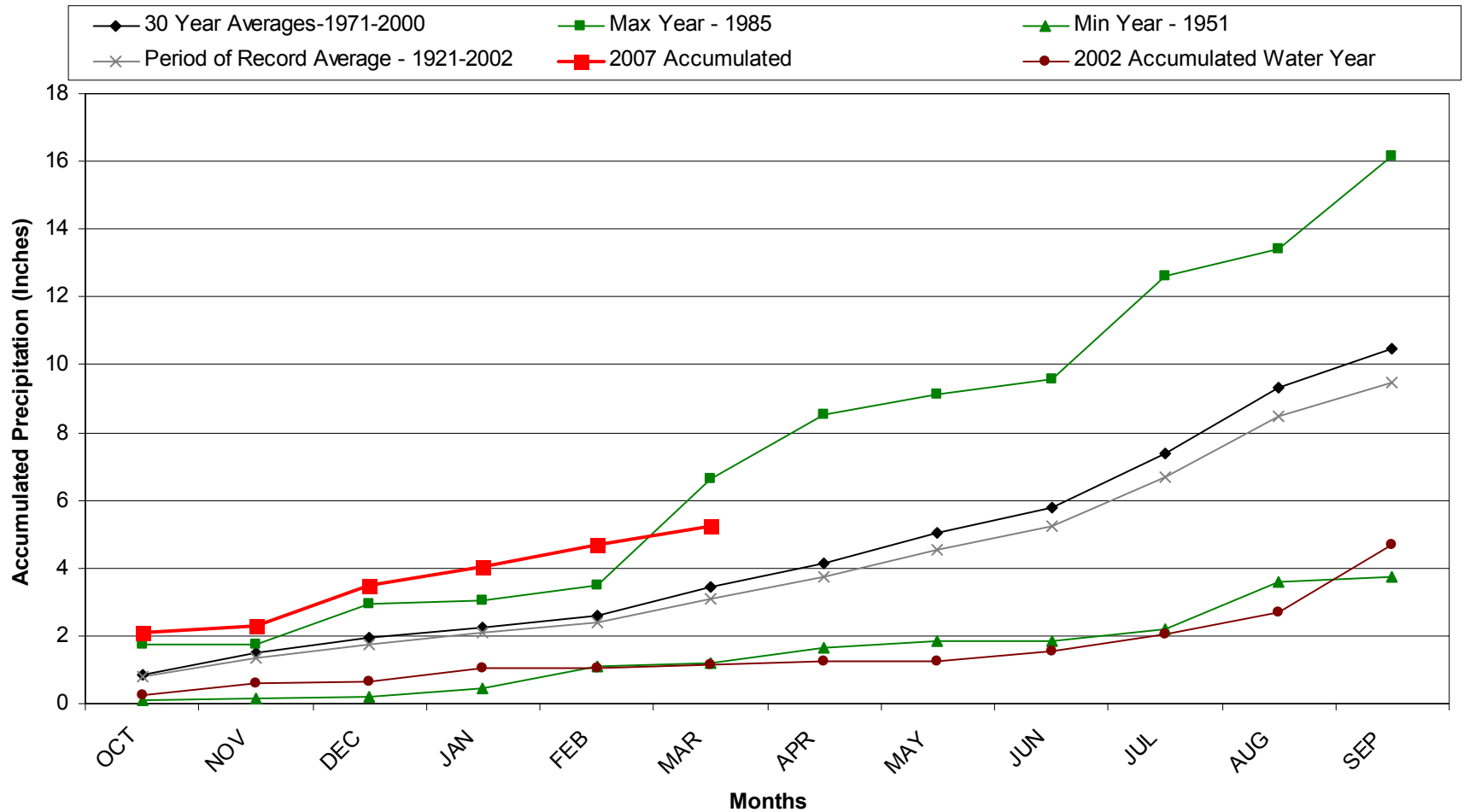
# Division 4 - Center

## Center 4SSW 2007 Water Year



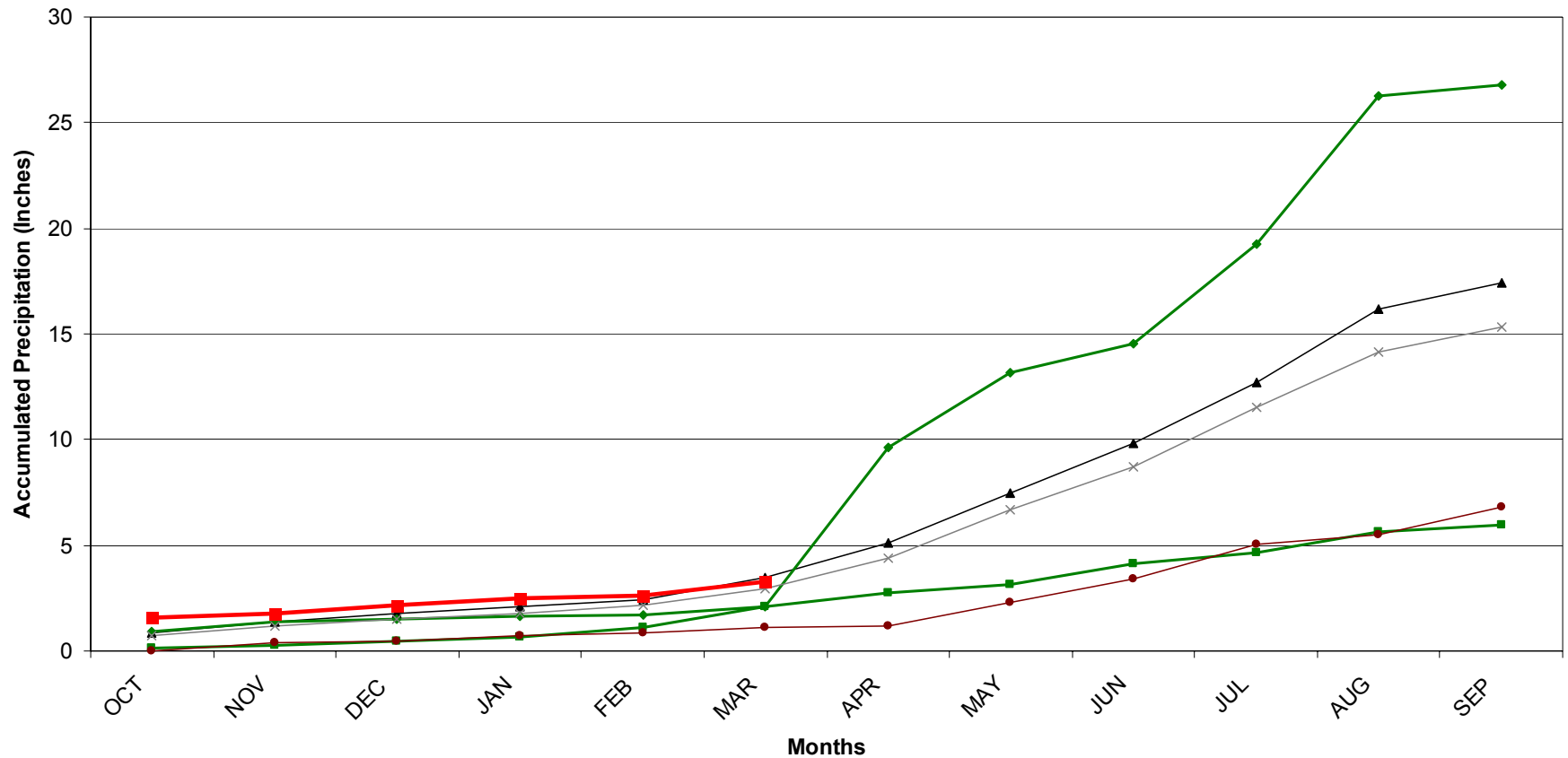
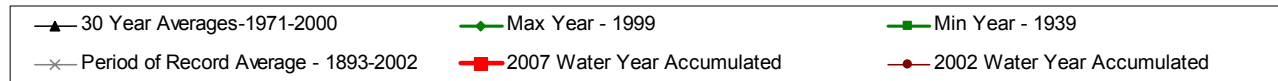
# Division 4 – Del Norte

## Del Norte 2007 Water Year



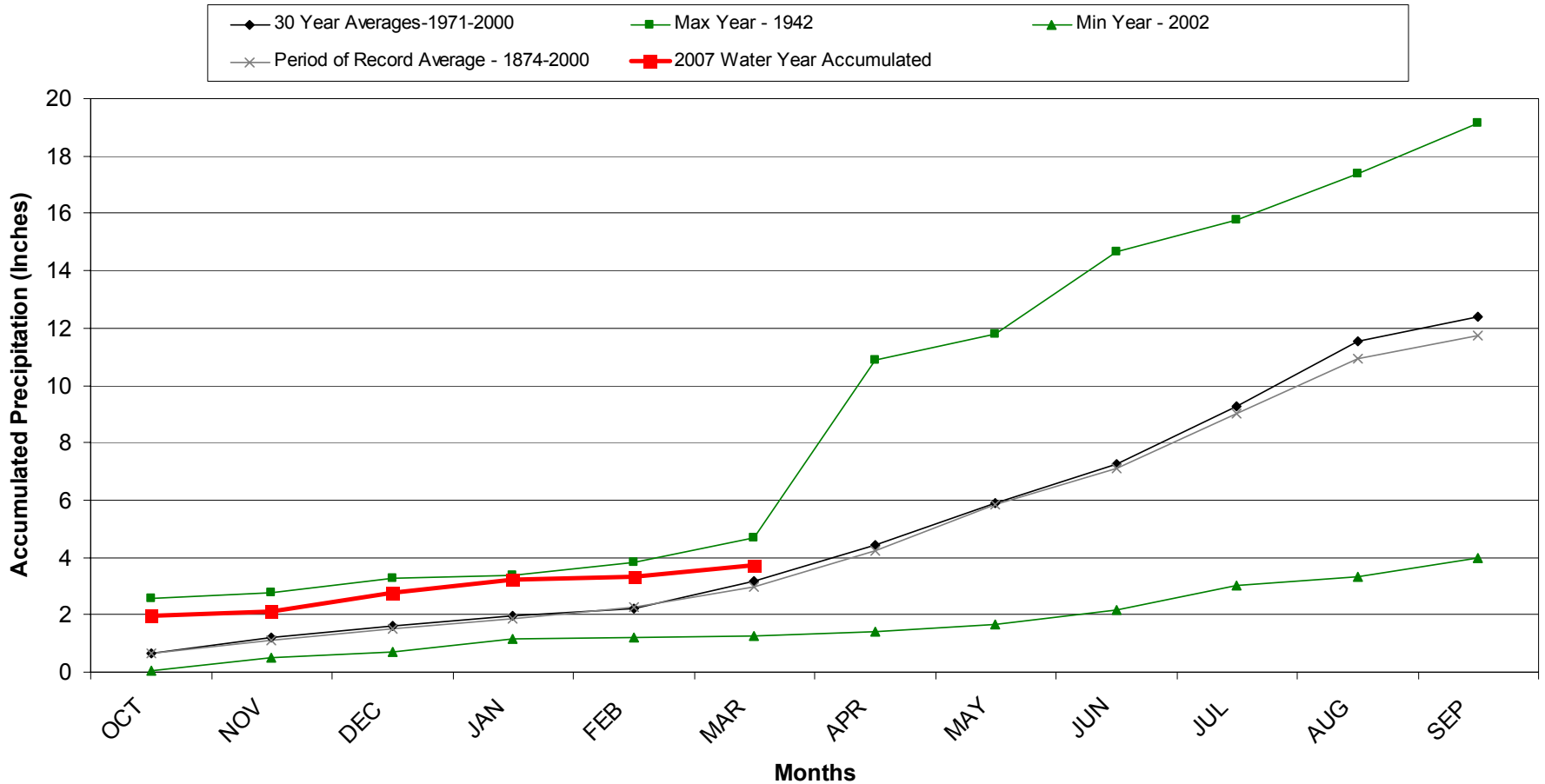
# Division 5 – Colorado Springs

## Colorado Springs 2007 Water Year



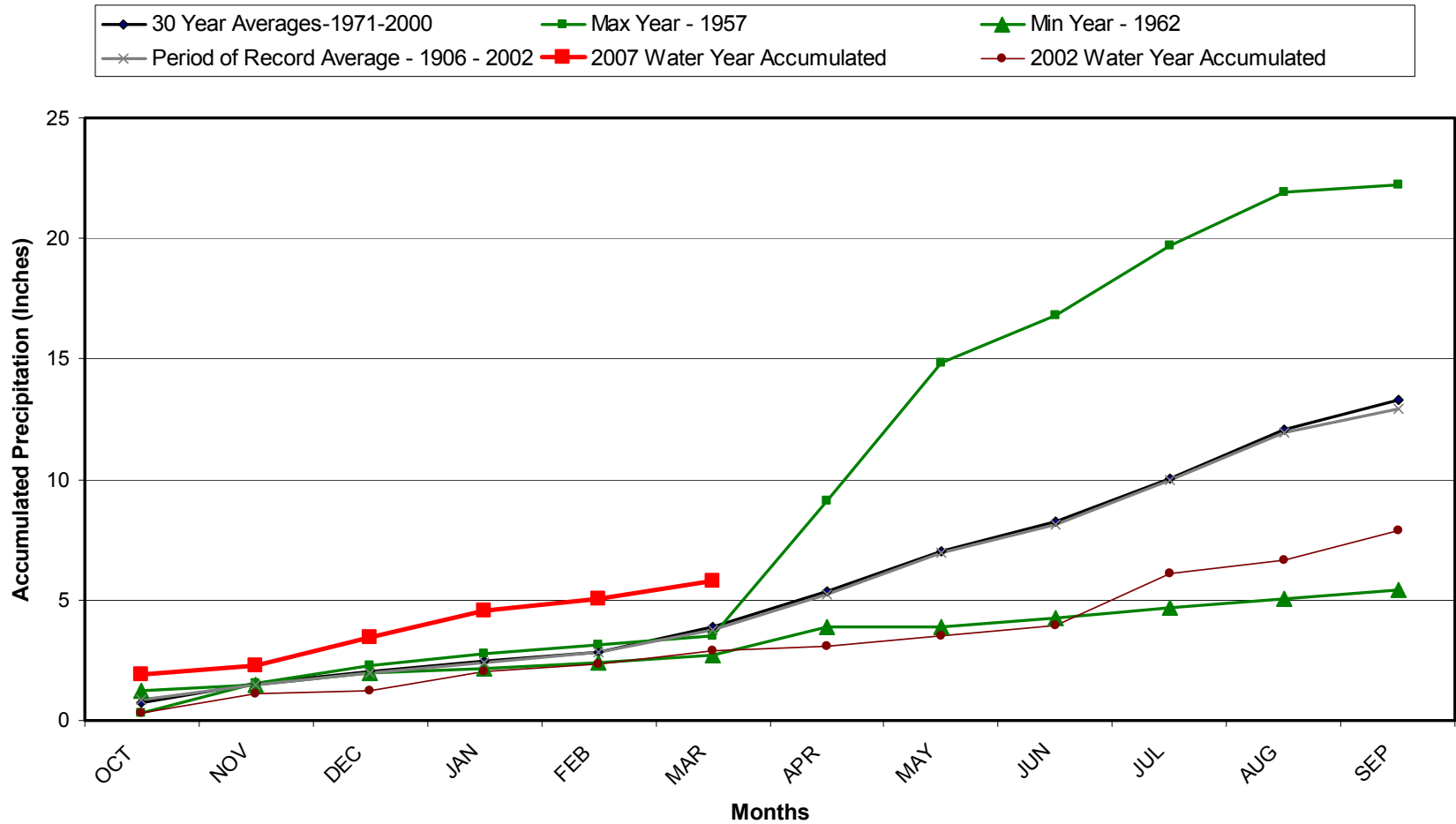
# Division 5 – Pueblo

## Pueblo WSO 2007 Water Year



# Division 5 – Canon City

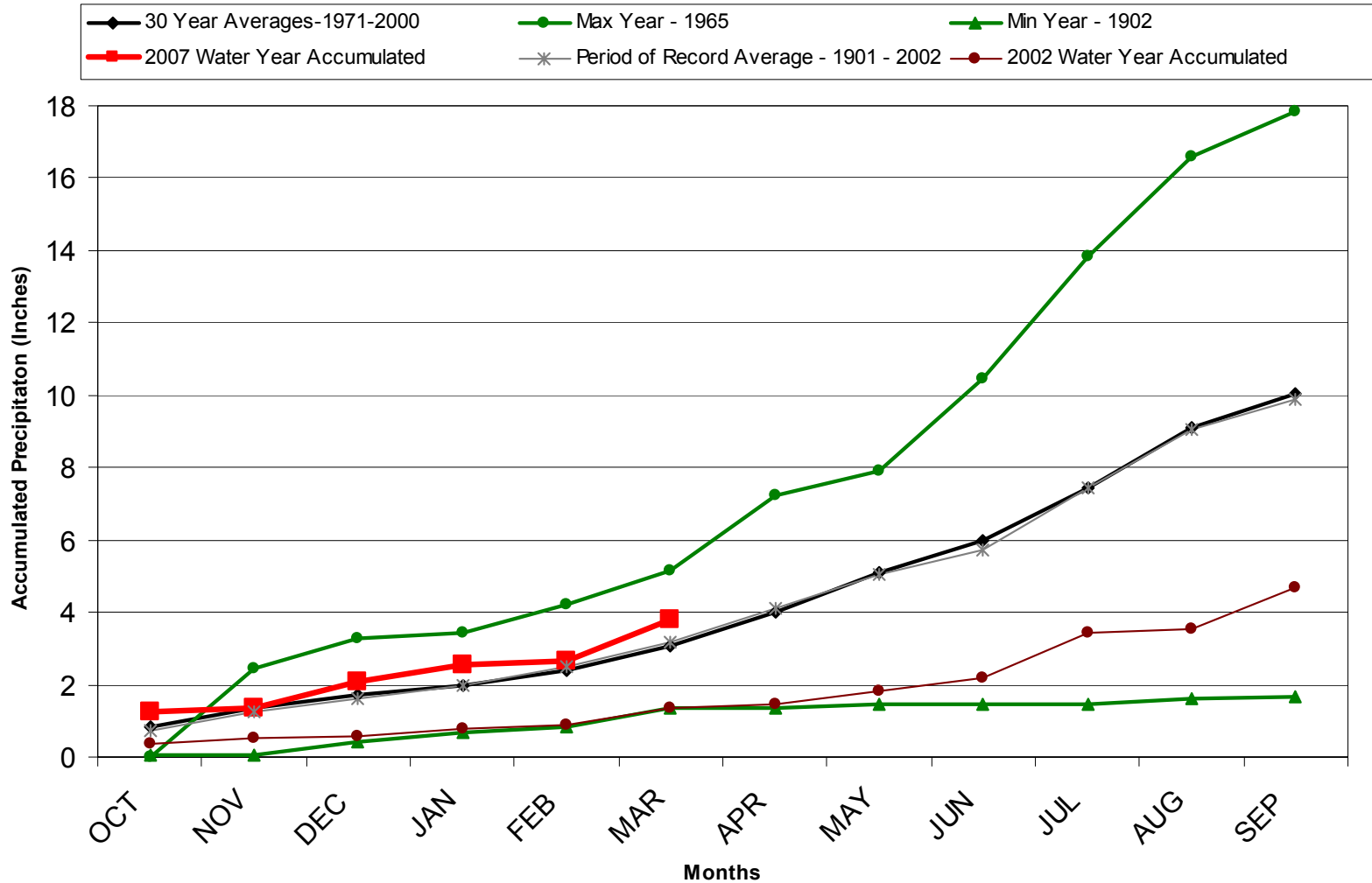
## Canon City 2007 Water Year





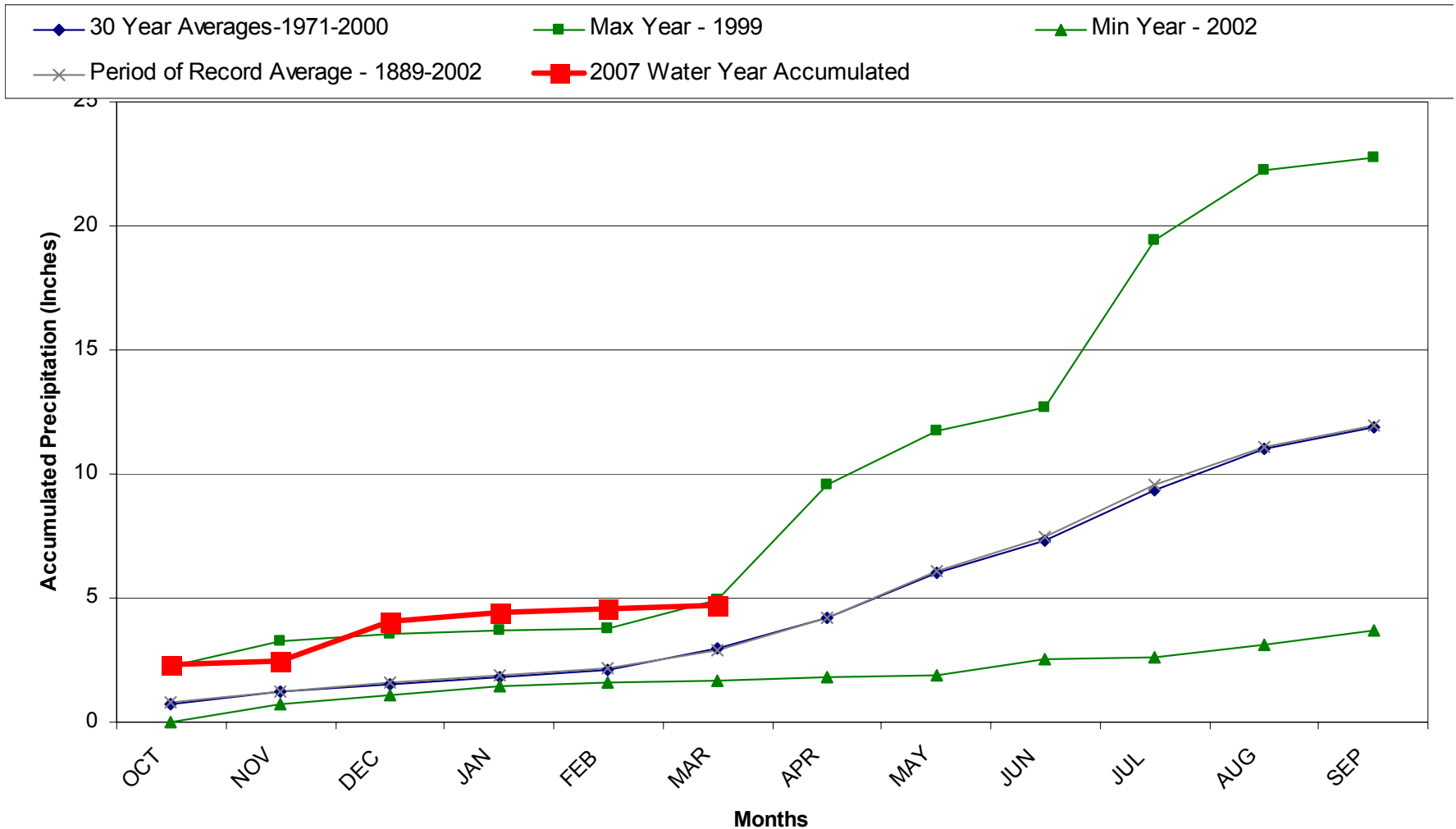
# Division 5 – Buena Vista

## Buena Vista 2007 Water Year



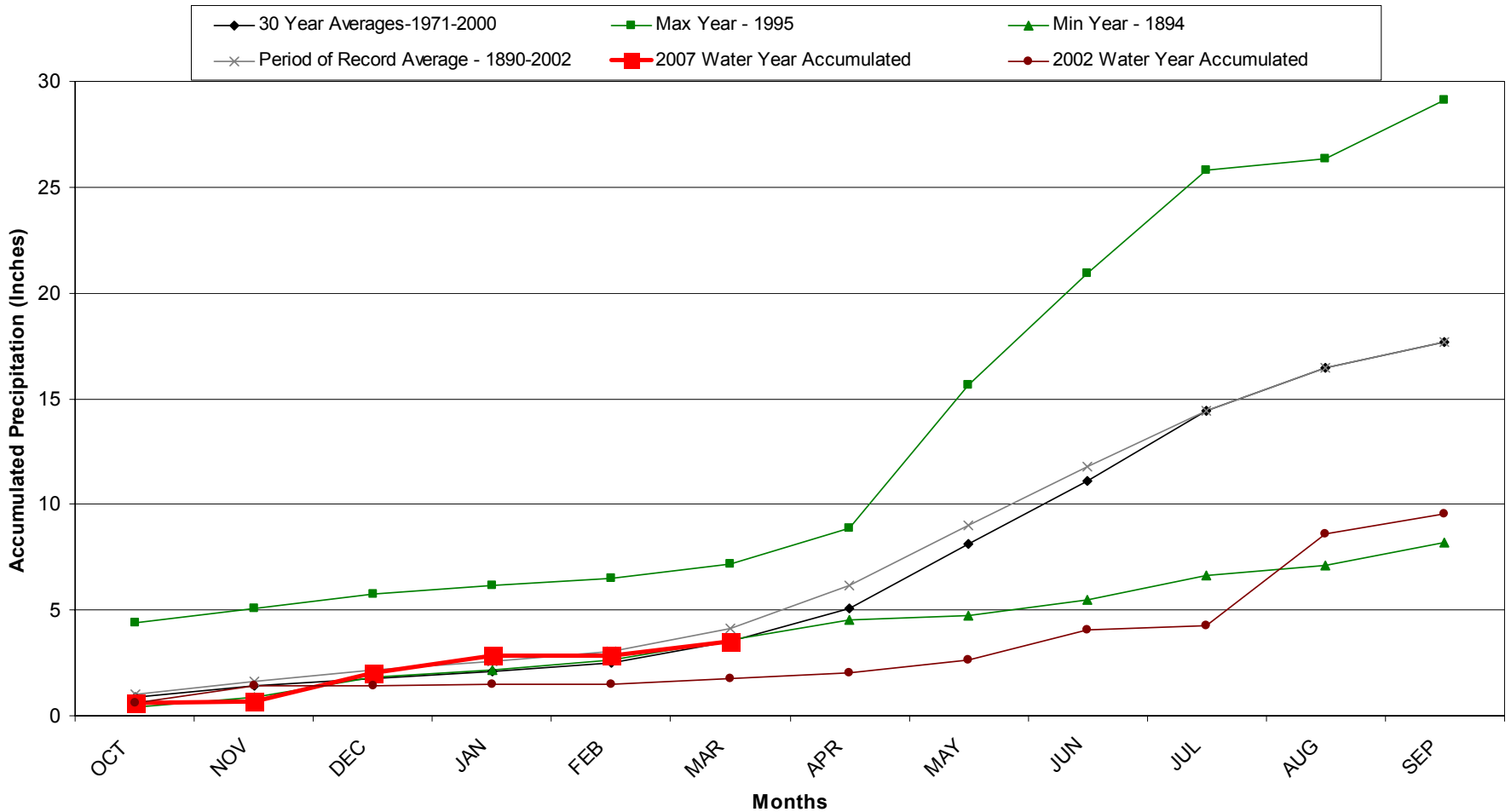
# Division 6 - Rocky Ford

## Rocky Ford 2007 Water Year



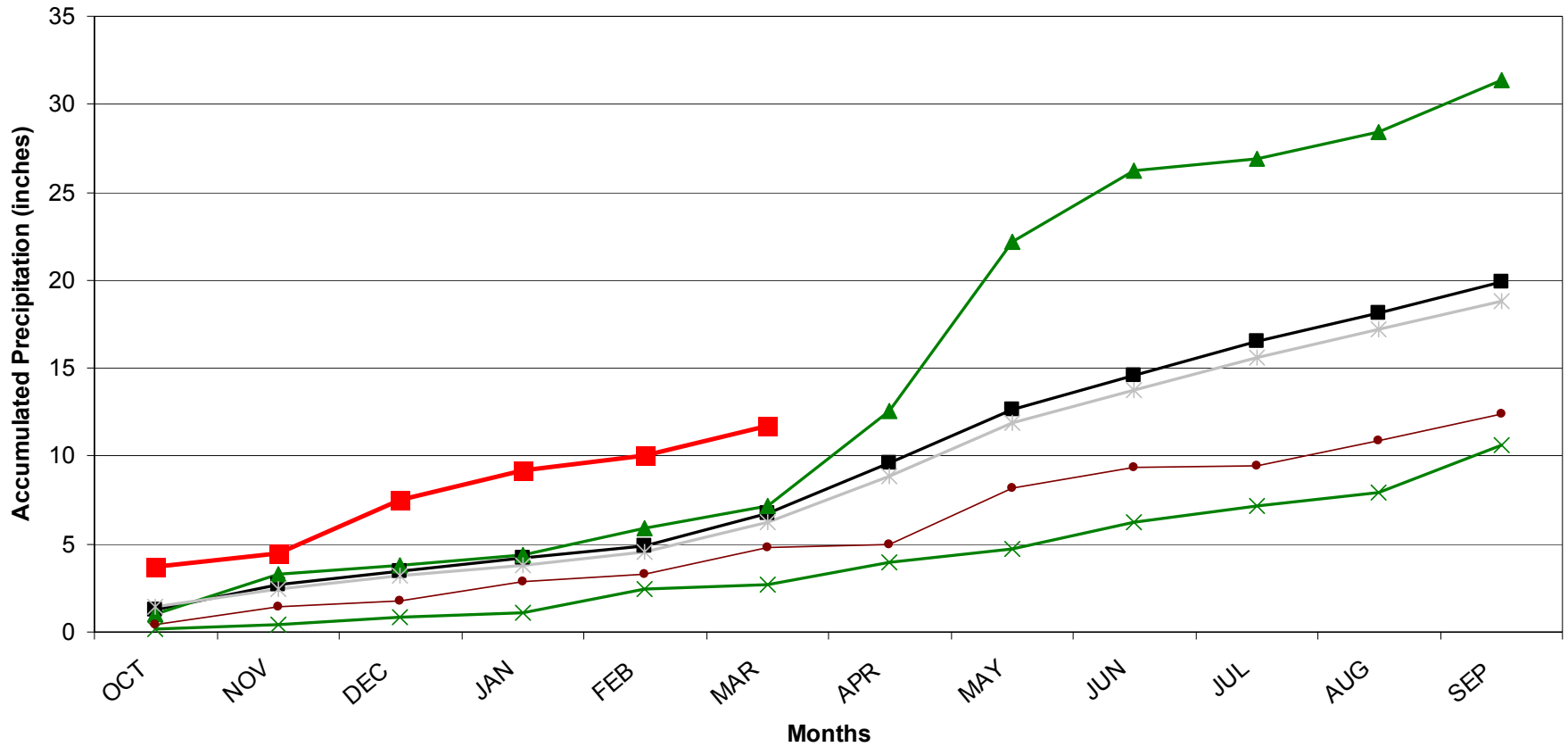
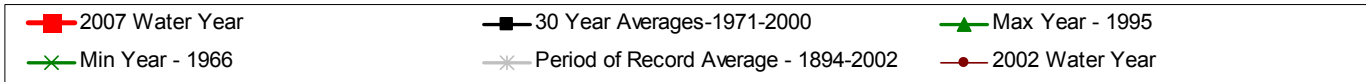
# Division 7 – Leroy

## Leroy 5SW 2007 Water Year



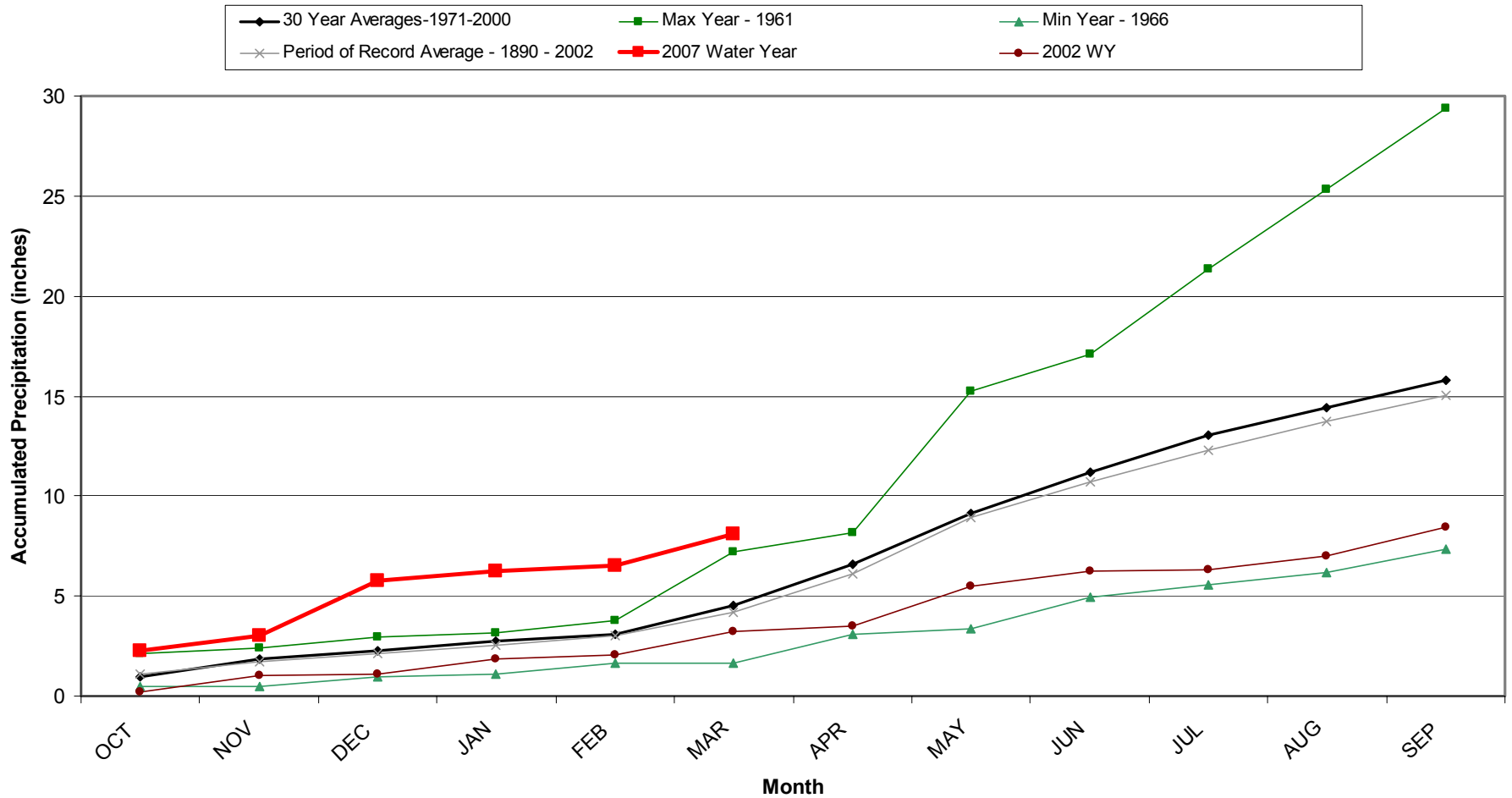
# Division 8 – Boulder

## Boulder 2007 Water Year



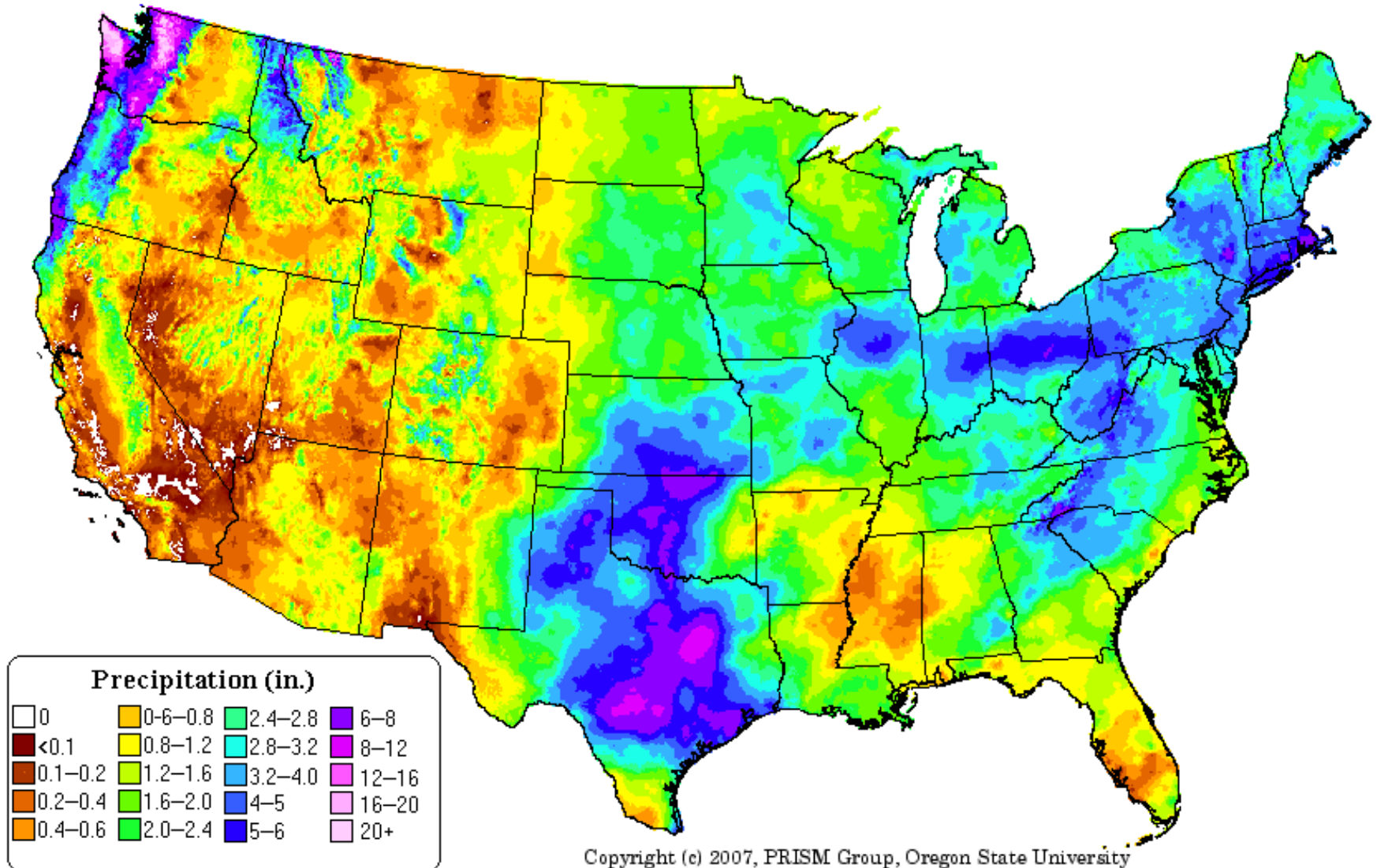
# Division 8 – Fort Collins

## Fort Collins 2007 Water Year



# March 2007 Precipitation (Prism map)

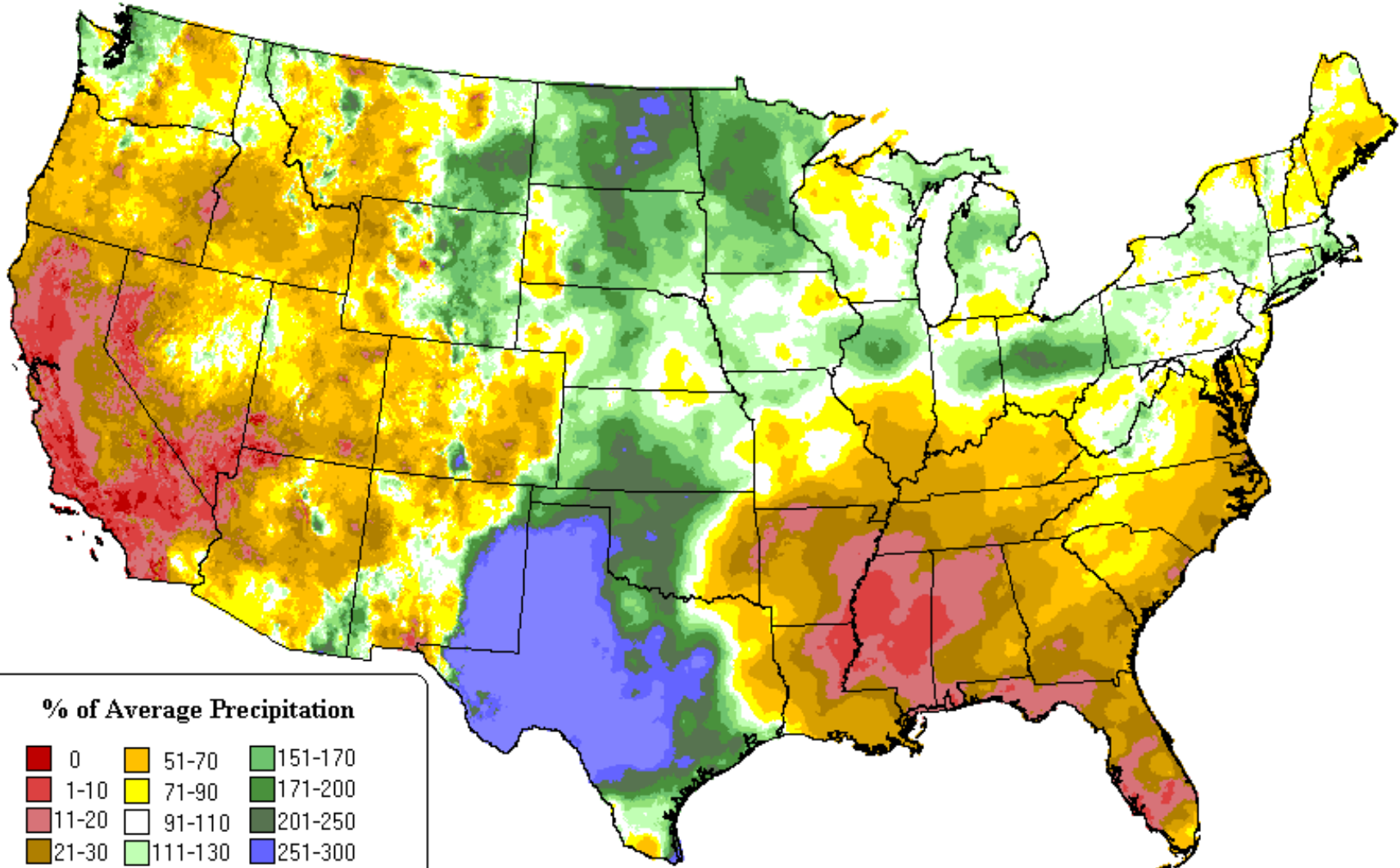
Precipitation: Mar 2007  
Provisional Data



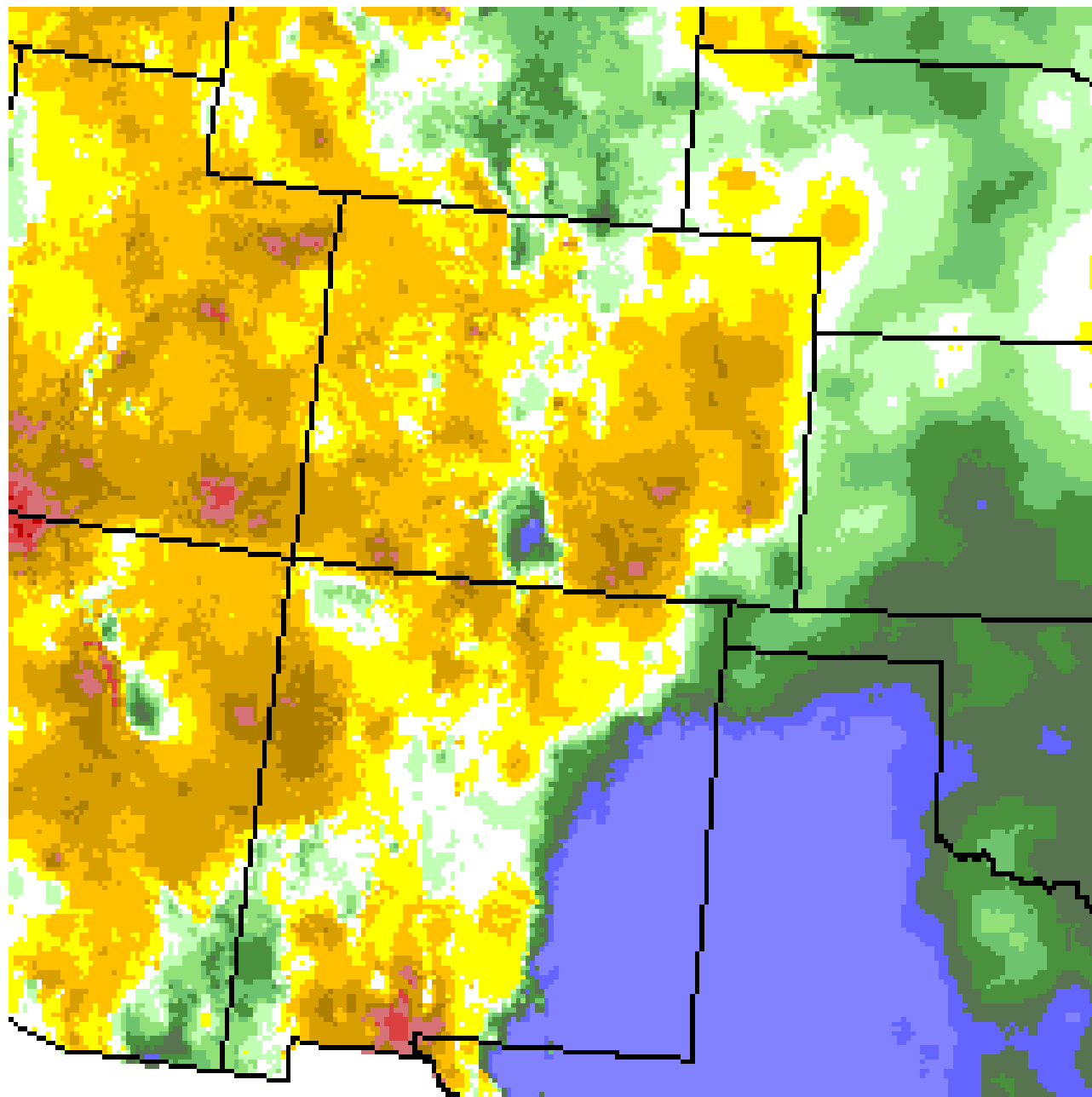
Copyright (c) 2007, PRISM Group, Oregon State University  
<http://www.ocs.oregonstate.edu/prism> - Map created Apr 10 2007

# March 2007 Percent of Average (Prism)

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



# March 2007 Percent of Average (Prism)

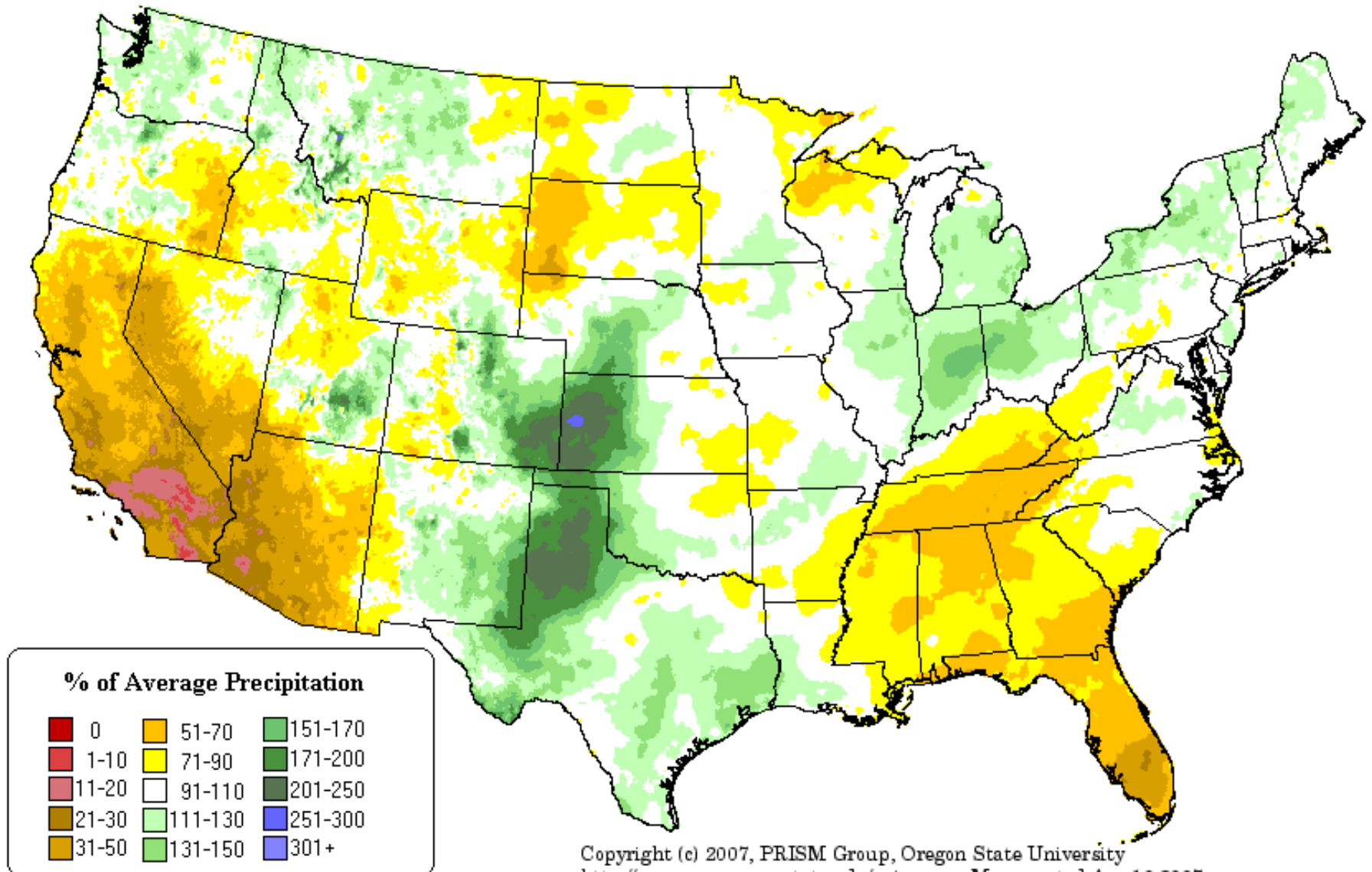




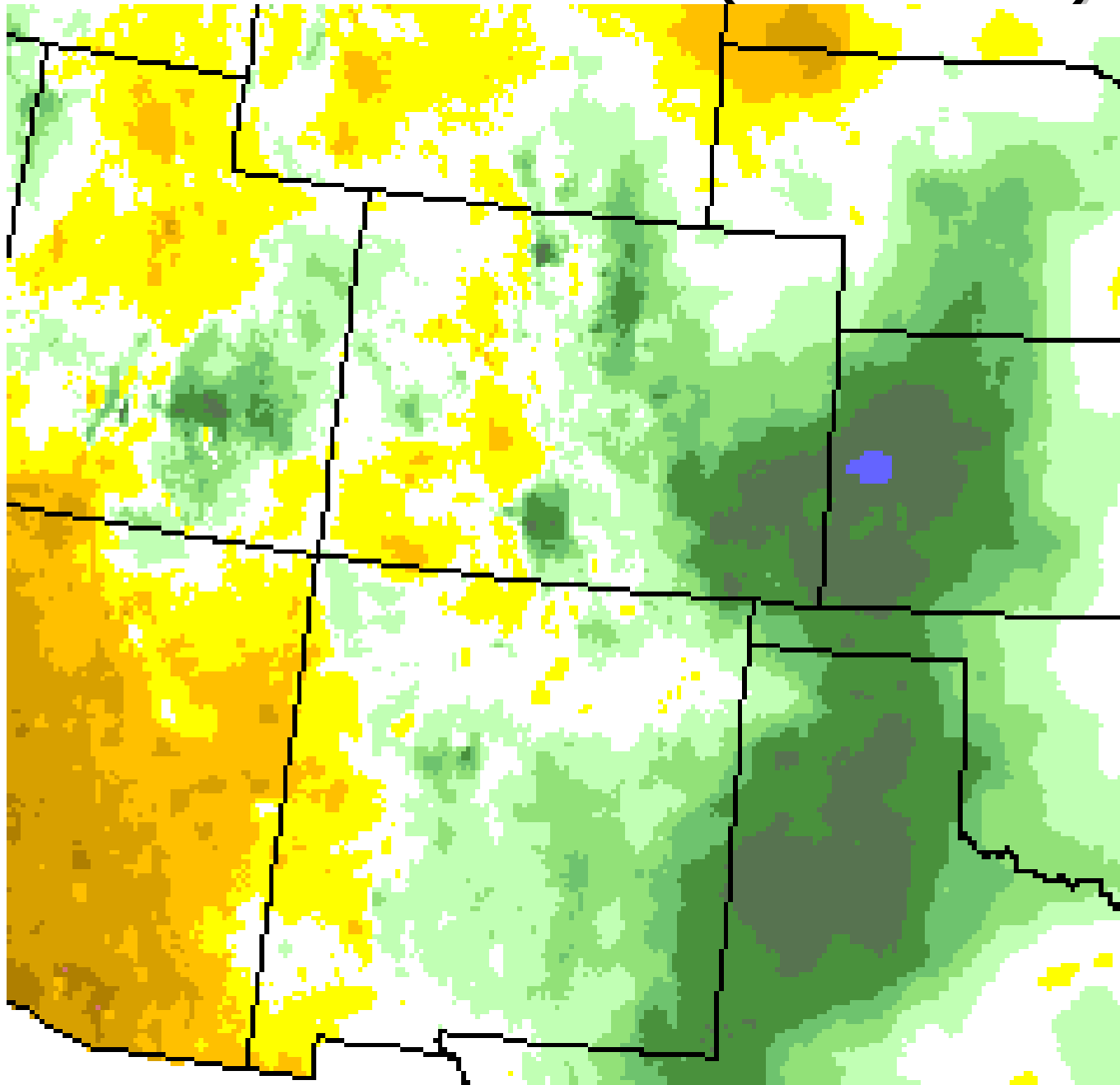
# Water Year 2007 (Oct-Mar)

6-month Percent of Average Precipitation: Mar 2007

Provisional Data



# Water Year 2007 (Oct-Mar)

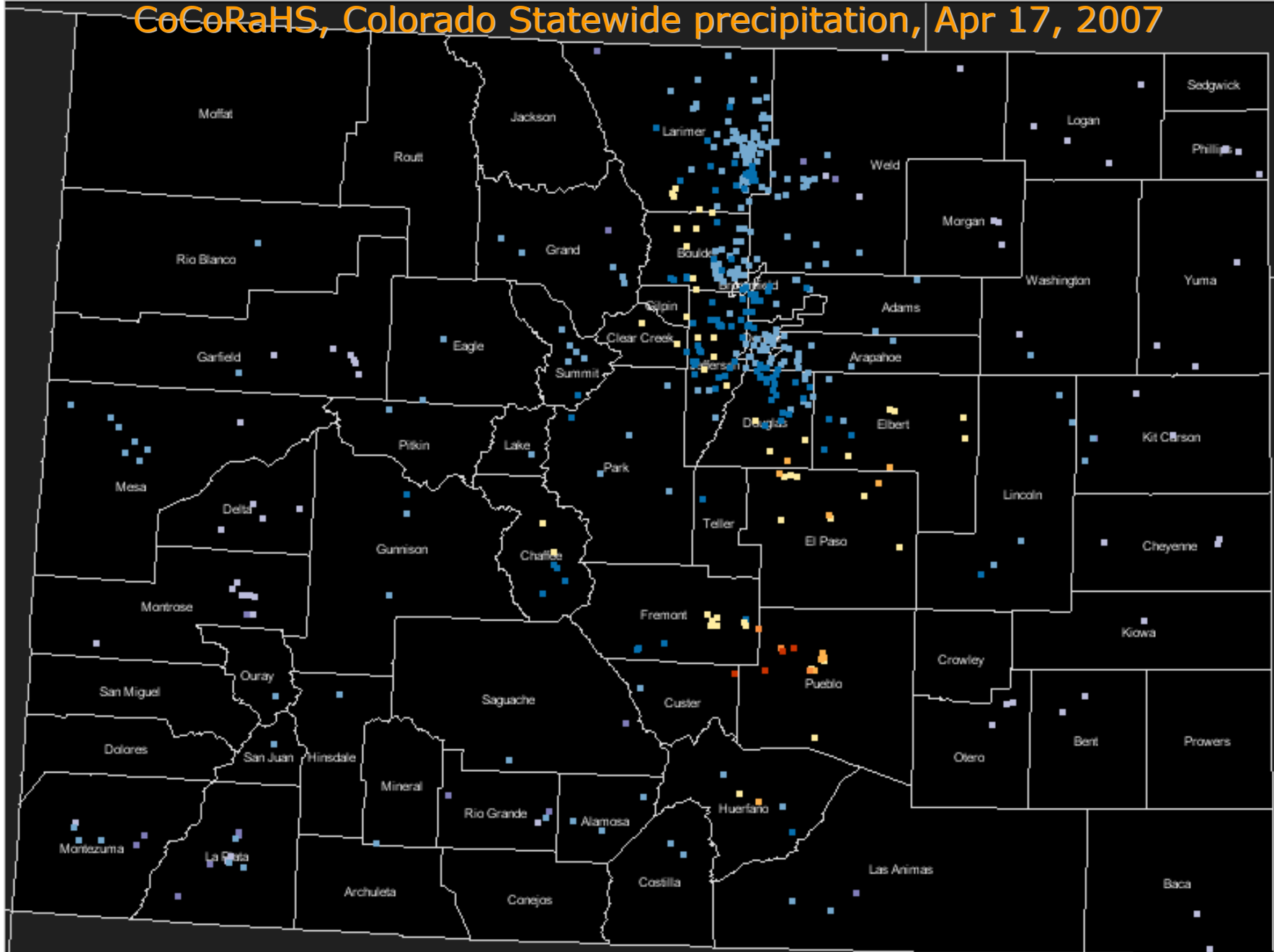


Daily Precipitation (inches x.xx), for the 24 hour period ending ~7:00 am

Colorado 4/17/2007



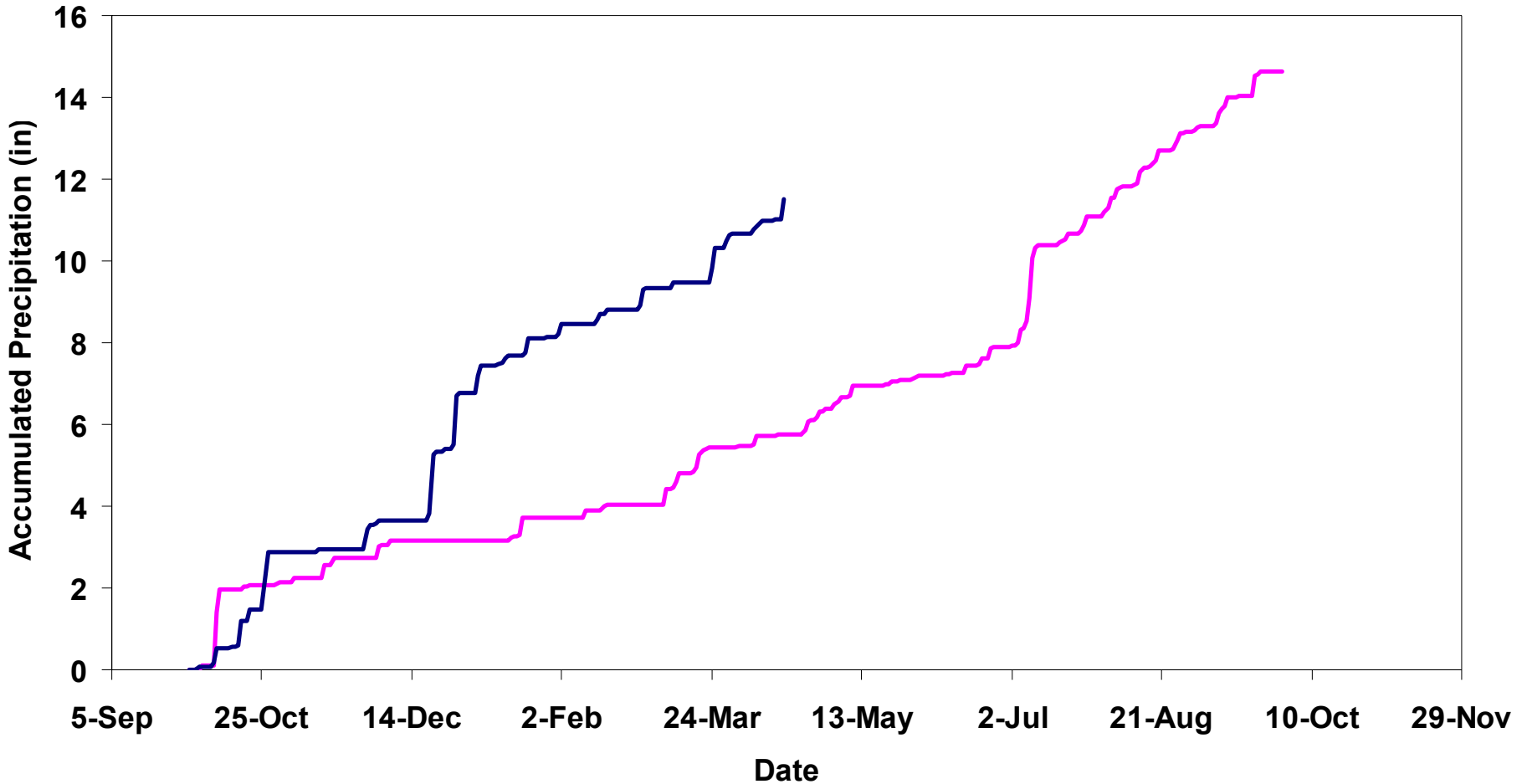
# CoCoRaHS, Colorado Statewide precipitation, Apr 17, 2007



# CoCoRaHS Accumulated Precipitation

Jefferson County, CO Accumulated Precipitation WY 2006 and 2007

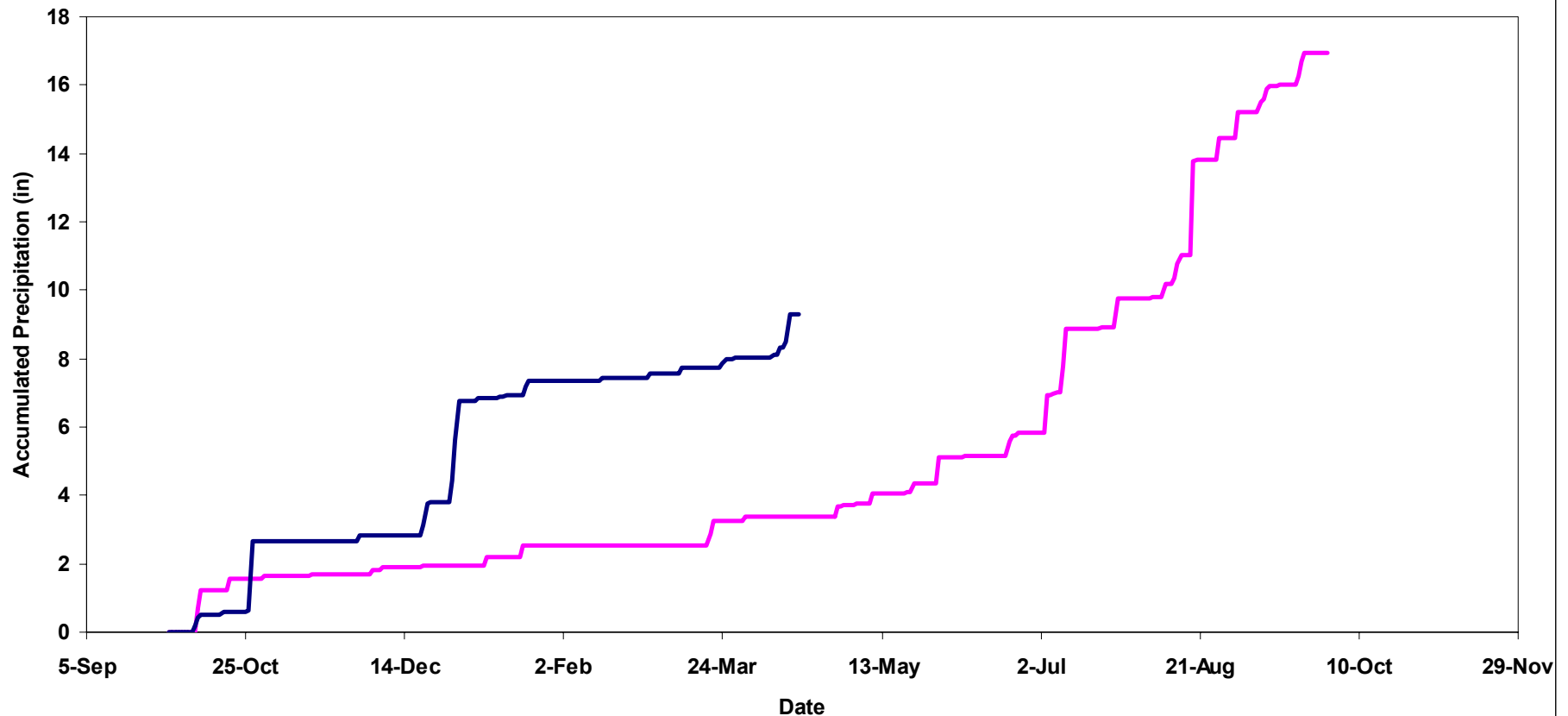
— Accumulated Precipitation WY 2006 — Accumulated Precipitation WY 2007



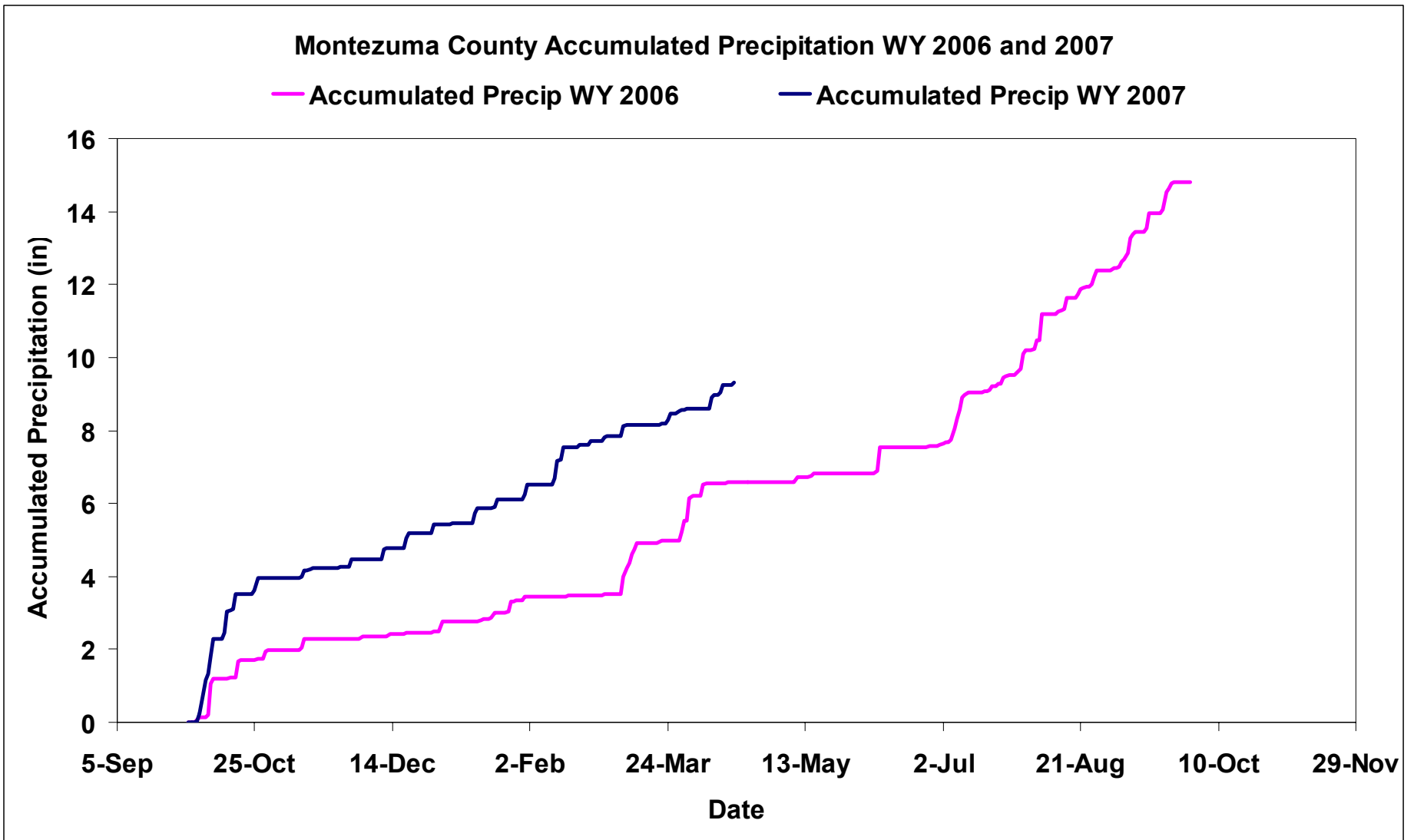
# CoCoRaHS Accumulated Precipitation

Otero County, CO Accumulated Precipitation WY 2006 and 2007

— Accumulated Precipitation WY 2006    — Accumulated Precipitation WY 2007



# CoCoRaHS Accumulated Precipitation







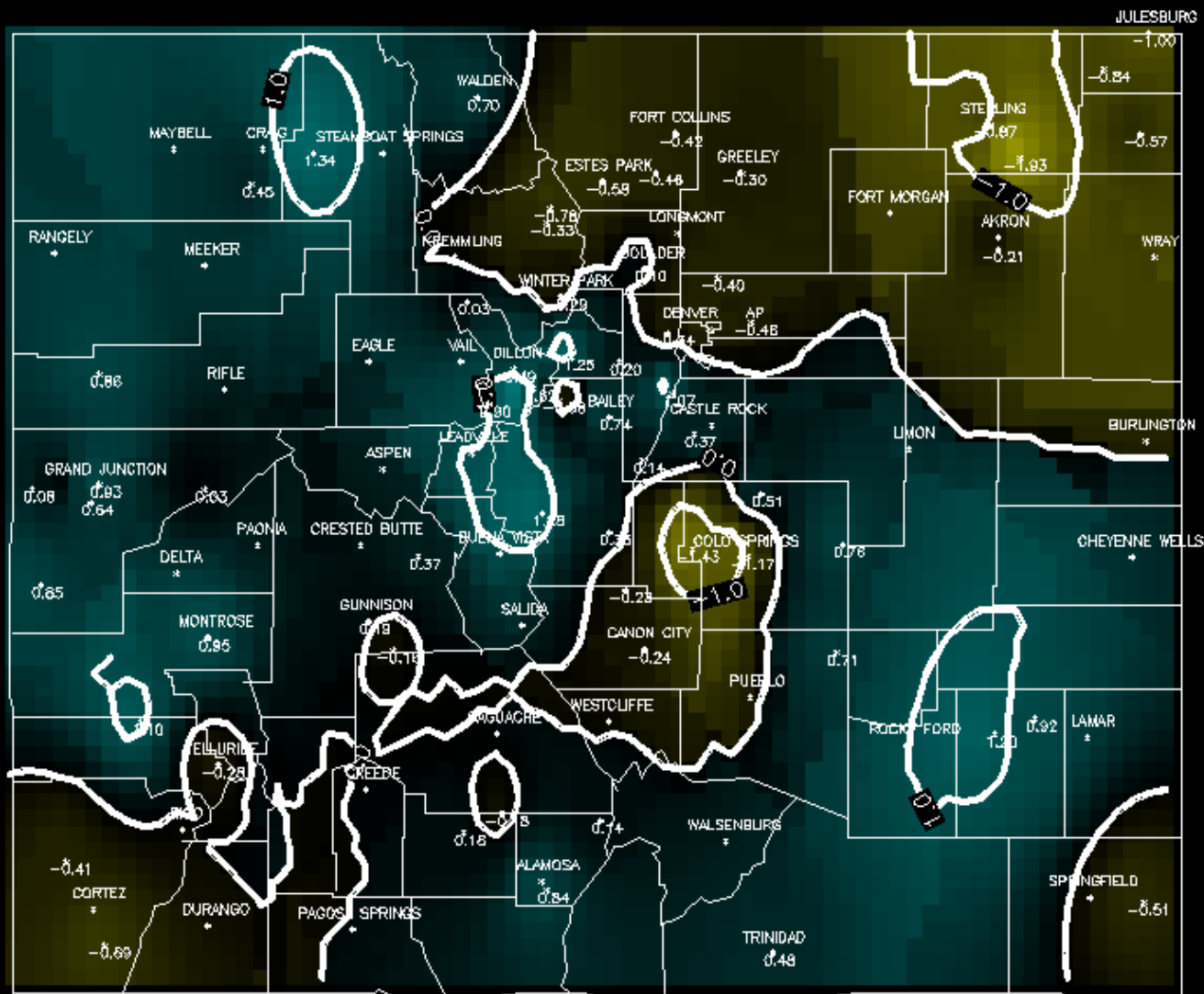




# 24 Month SPI

Colorado

3/2007 24 mon. SPI



100	>>>	2.0	2	>>>	-1.0
86	>>>	1.0	0	>>>	-2.0
34	>>>	0.0	0	>>>	-3.0

Produced by:  
Colorado Climate Center  
Fort Collins, CO

# 48 Month SPI

Colorado

3/2007 48 mon. SPI



100% <<< 2.0  
 96% <<< 1.0  
 43% <<< 0.0

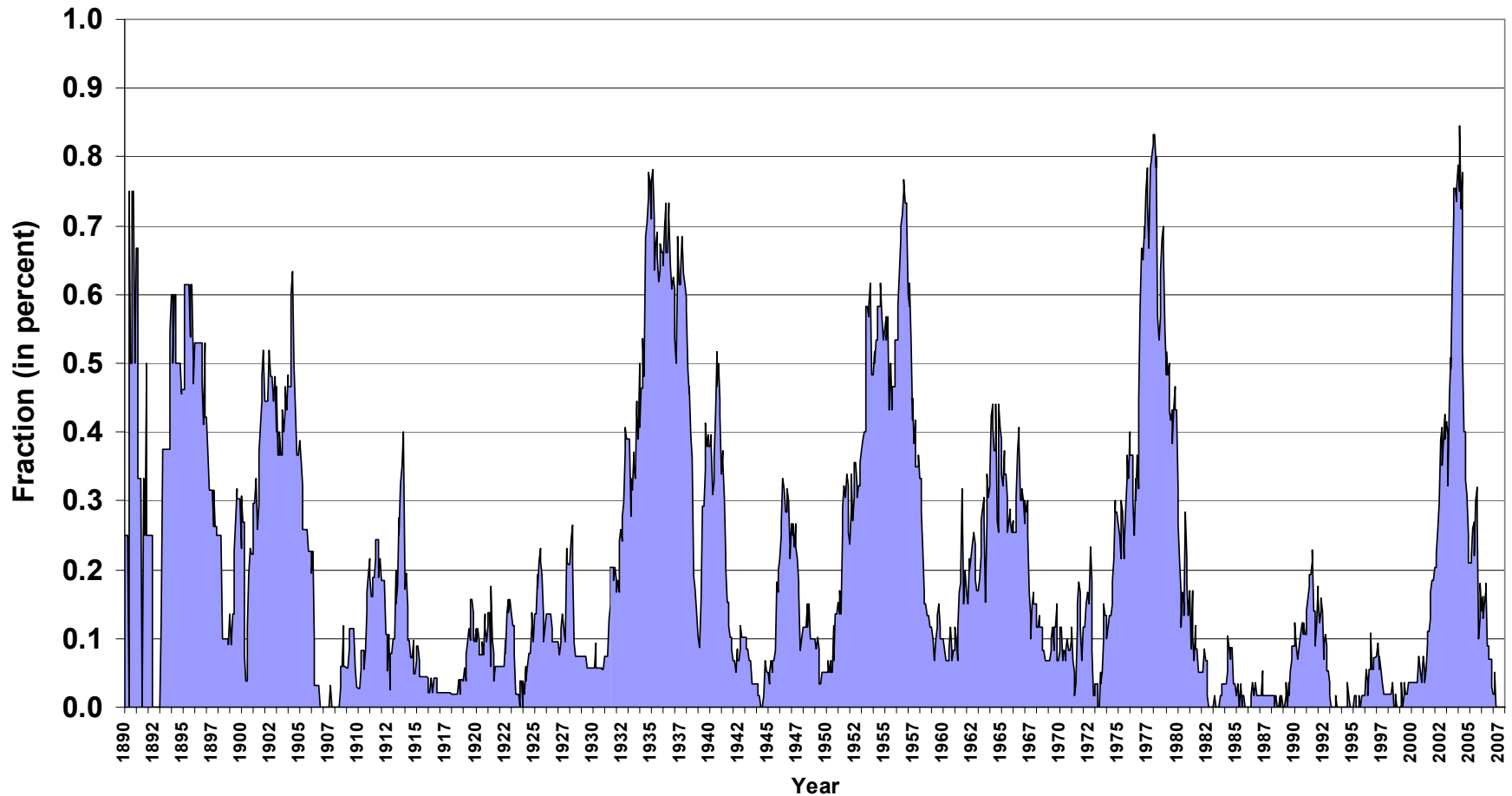
5% <<< -1.0  
 0% <<< -2.0  
 0% <<< -3.0

Produced by:  
 Colorado Climate Center  
 Fort Collins, CO

# Standardized Precipitation Index

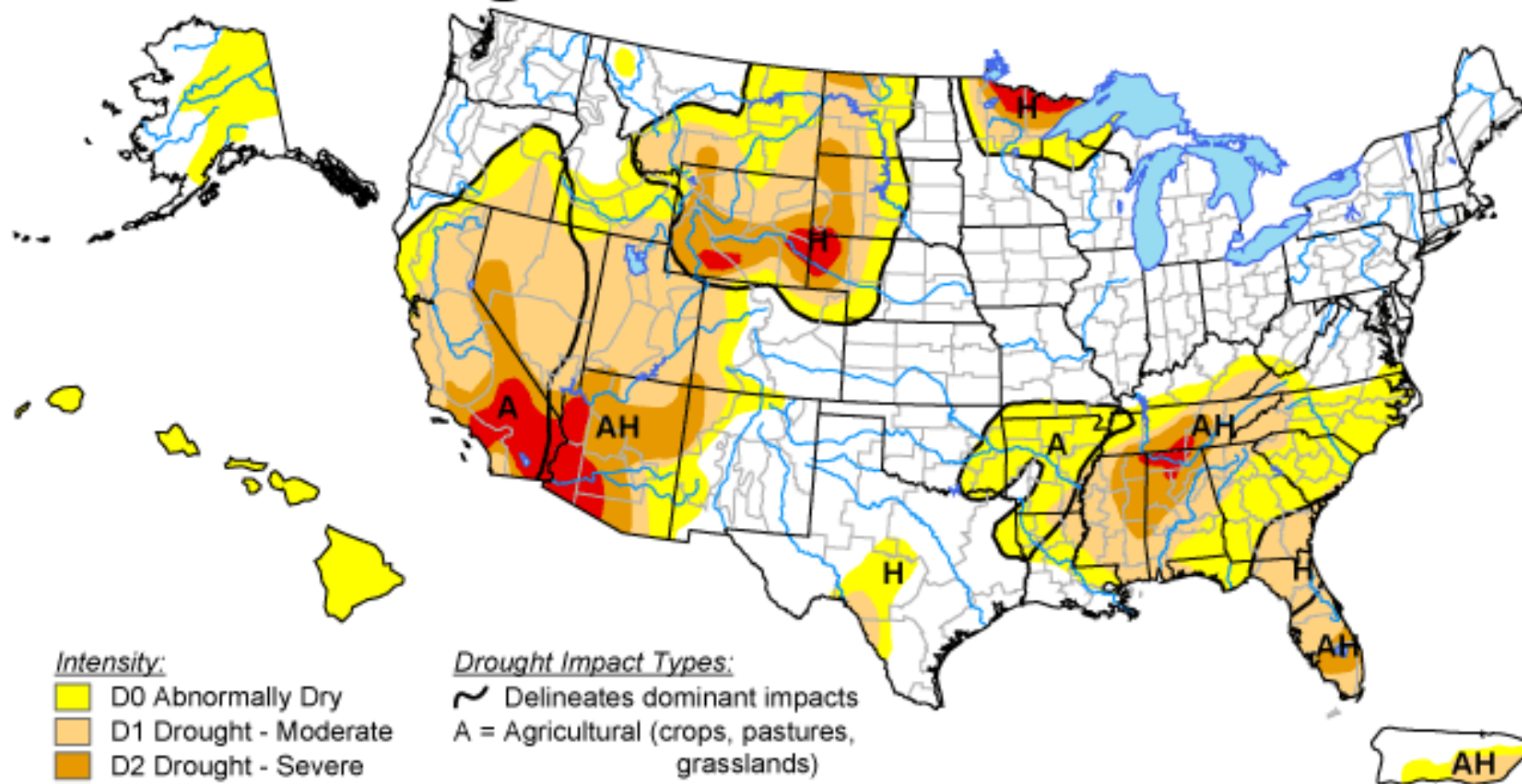
## Fraction of Colorado in Drought Based on 48 month SPI

(1890 - Mar 2007)



# U.S. Drought Monitor

April 10, 2007  
Valid 8 a.m. EDT



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 12, 2007  
Author: Thomas Heddinghaus, CPC/NOAA

# Colorado Climate Center

Data and Power Point Presentations available for downloading

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

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



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