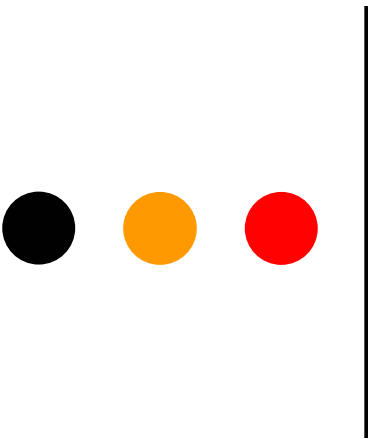




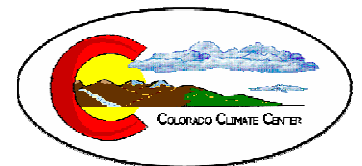
Climate Update

Nolan Doesken, State Climatologist
Atmospheric Science Department
Colorado State University

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

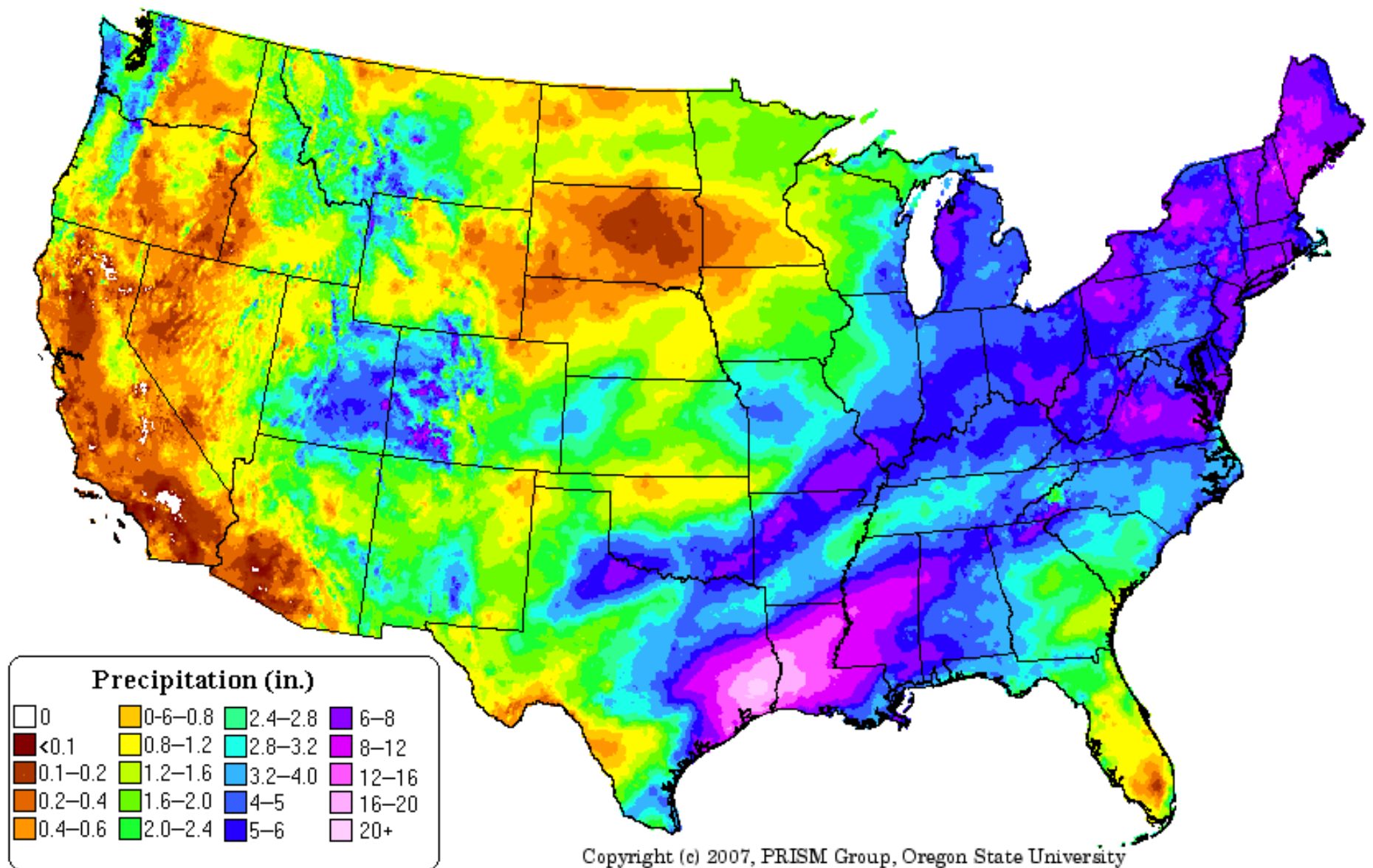
Presented to Water Availability Task Force, DOW, Denver,
CO, February 16, 2007

Prepared by Odie Bliss and Wendy Ryan



Precipitation: Oct 2006

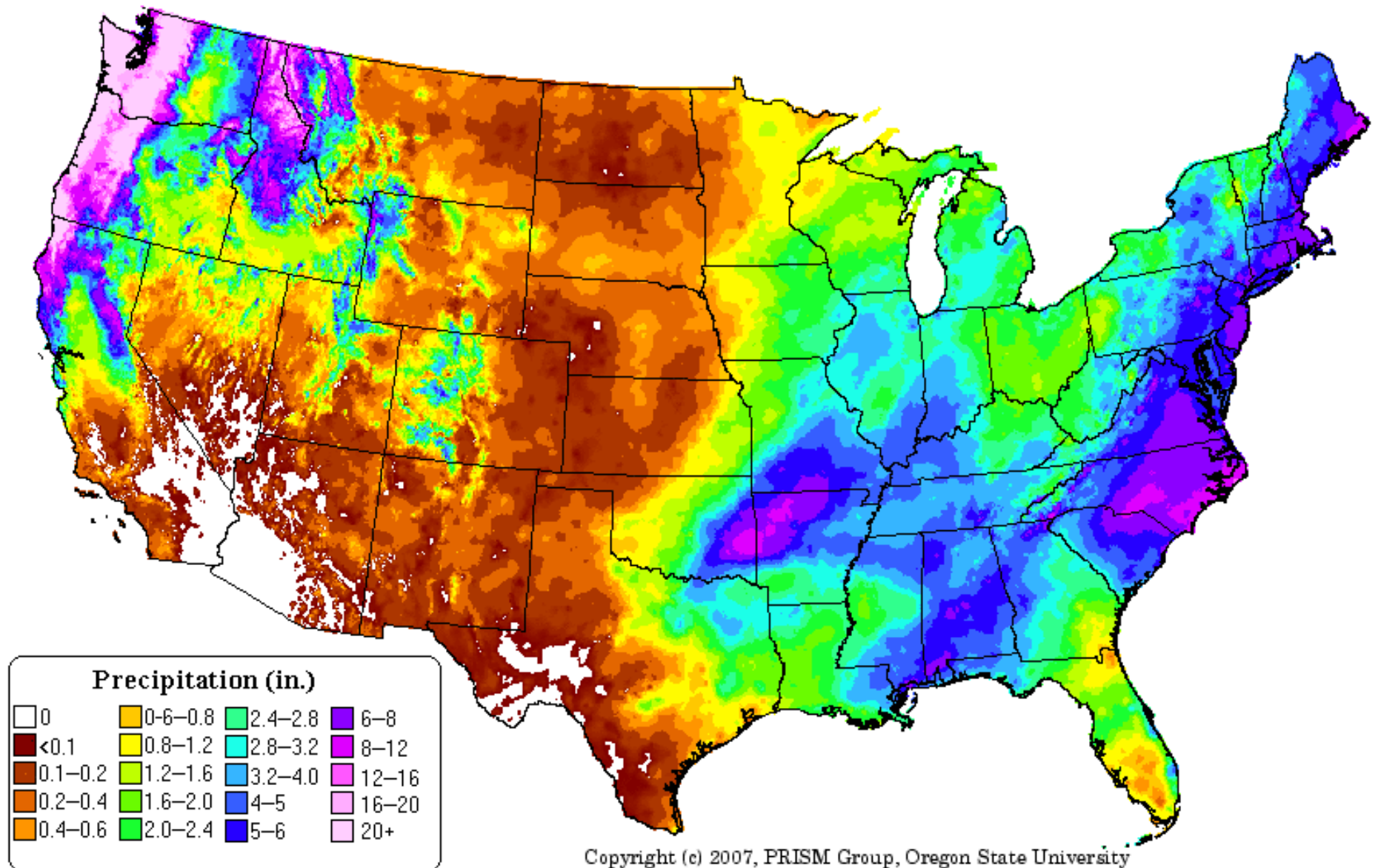
Preliminary Data



Copyright (c) 2007, PRISM Group, Oregon State University
<http://www.ocs.oregonstate.edu/prism> - Map created Feb 09 2007

Precipitation: Nov 2006

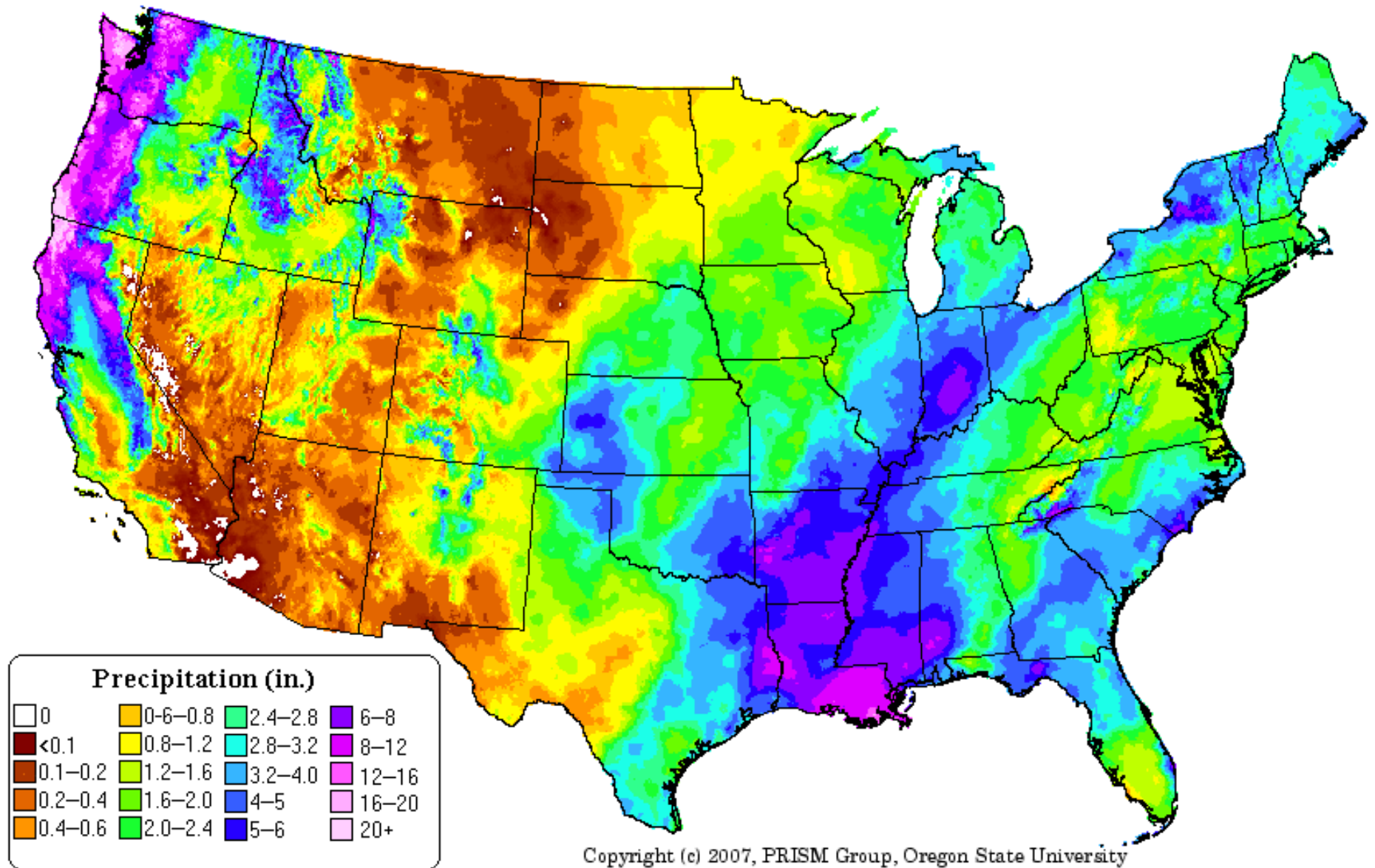
Provisional Data



Copyright (c) 2007, PRISM Group, Oregon State University
<http://www.ocs.oregonstate.edu/prism> - Map created Feb 09 2007

Precipitation: Dec 2006

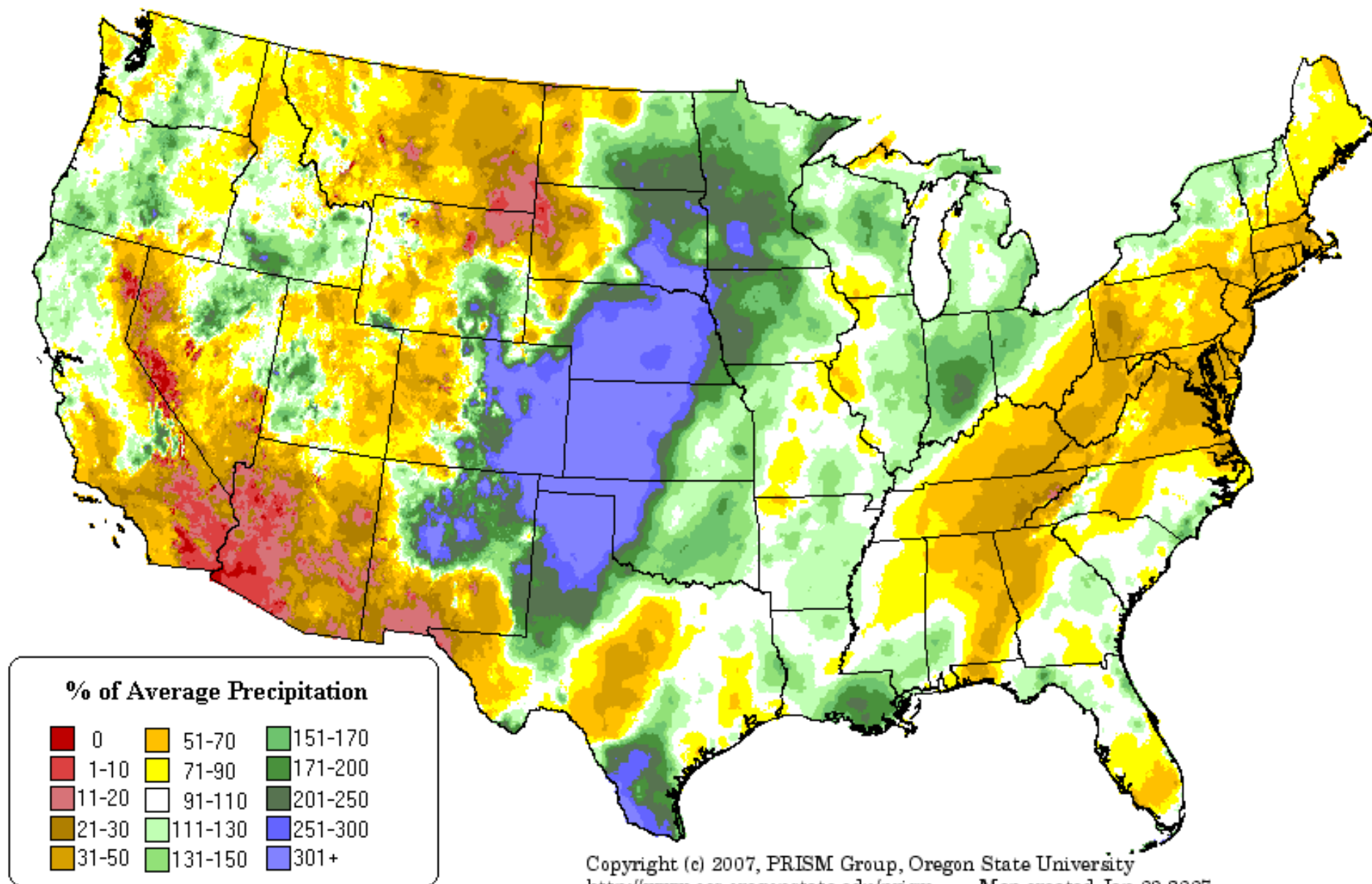
Provisional Data



Copyright (c) 2007, PRISM Group, Oregon State University
<http://www.ocs.oregonstate.edu/prism> - Map created Feb 09 2007

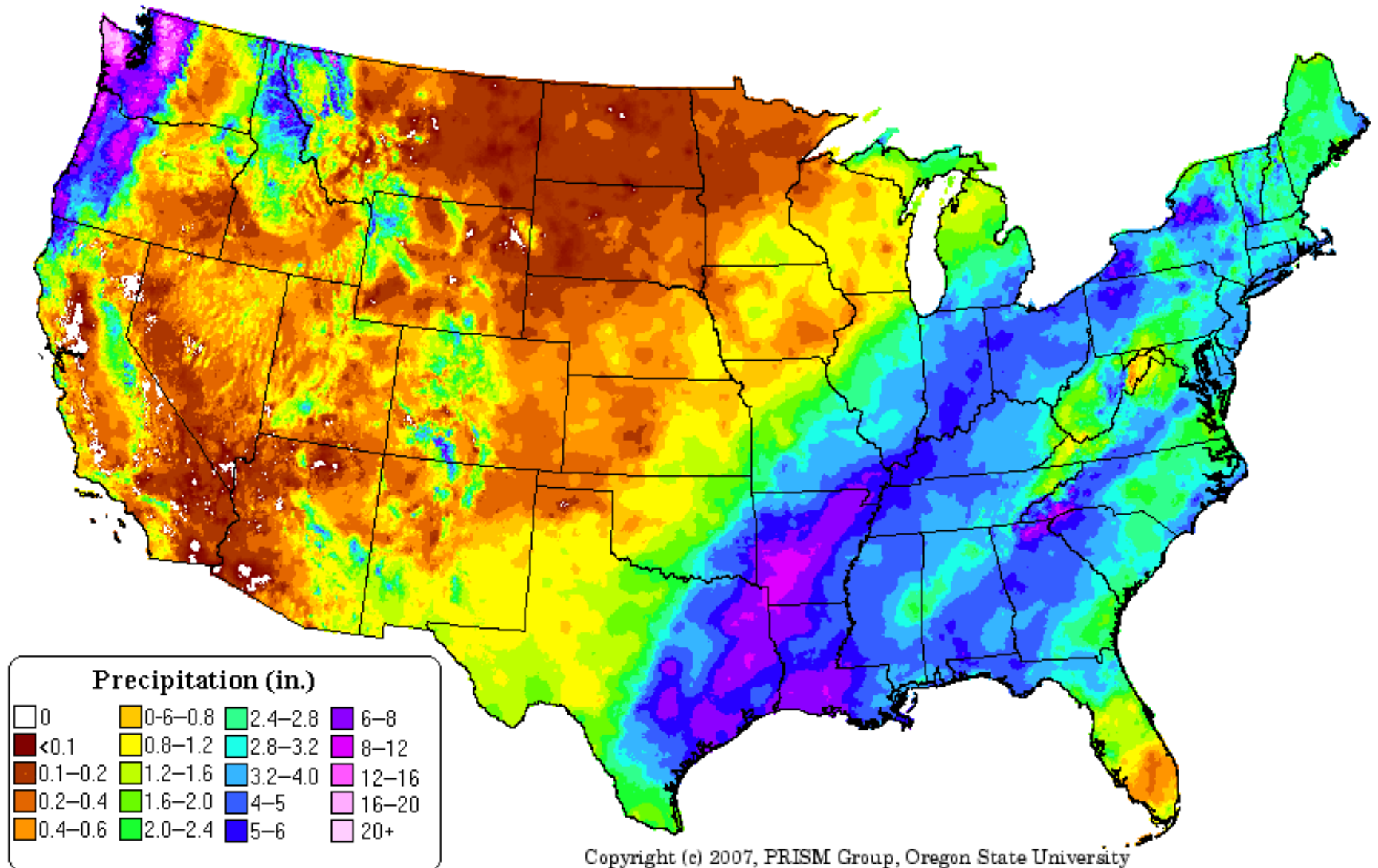
1-month Percent of Average Precipitation: Dec 2006

Provisional Data



Precipitation: Jan 2007

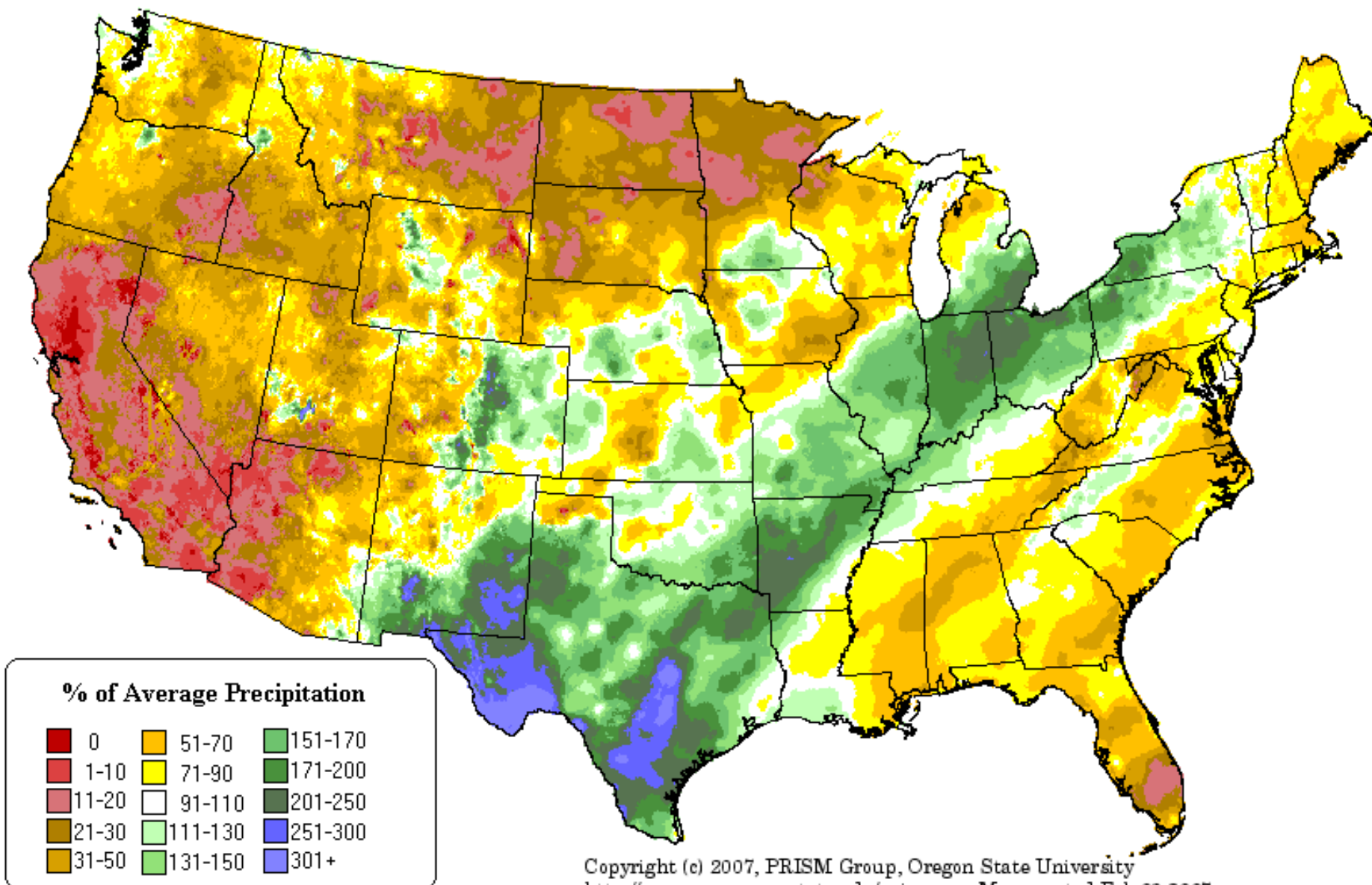
Provisional Data



Copyright (c) 2007, PRISM Group, Oregon State University
<http://www.ocs.oregonstate.edu/prism> - Map created Feb 09 2007

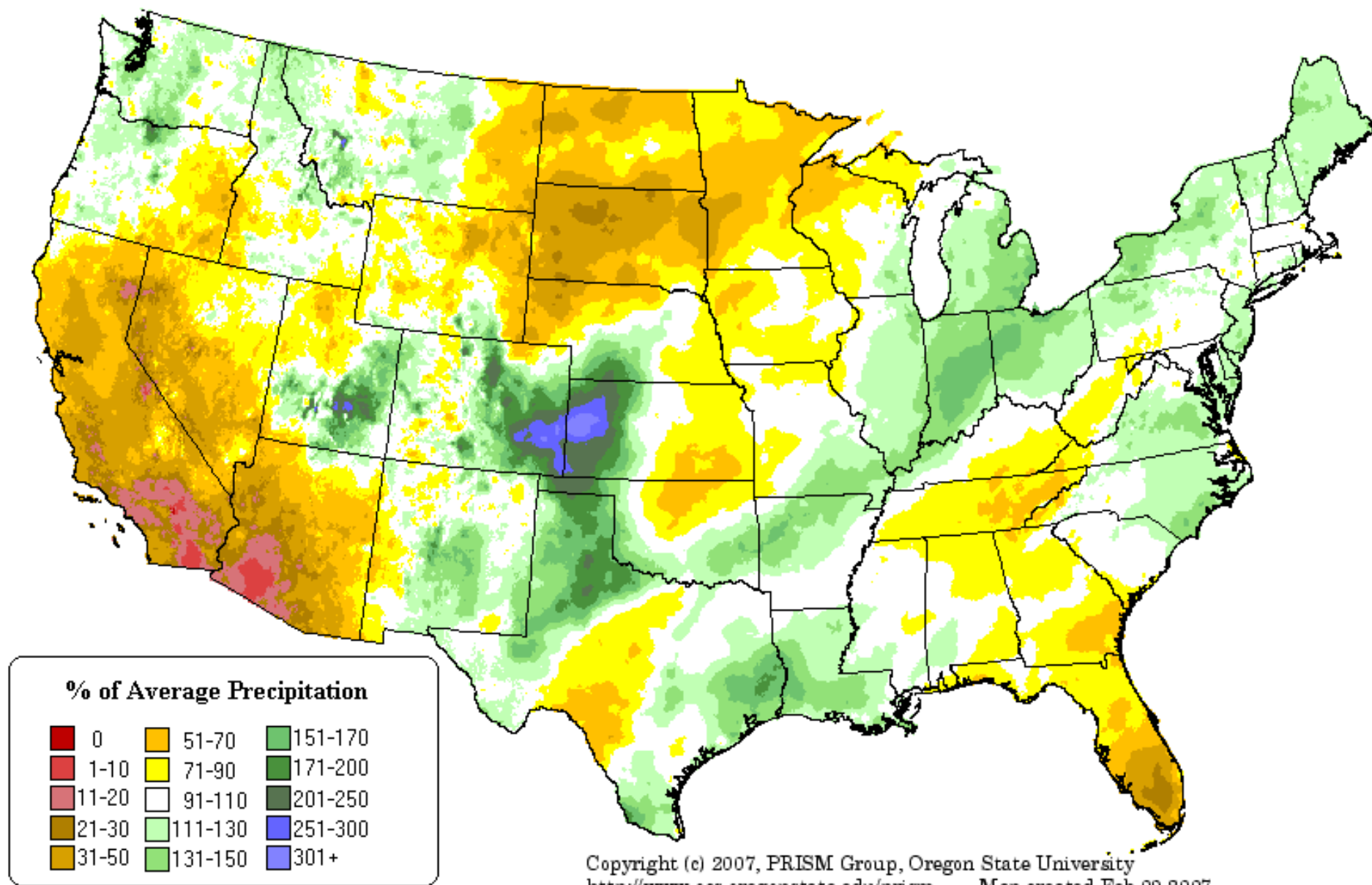
1-month Percent of Average Precipitation: Jan 2007

Provisional Data



4-month Percent of Average Precipitation: Jan 2007

Provisional Data



Colorado Snowcover

As of January 7, 2007

Wyoming

Colorado

Nebraska

— Denver

Kansas

Arkansas River

http://rapidfire.sci.gsfc.nasa.gov/subsets/?AERONET_BSRN_BAO_Boulder

50 km



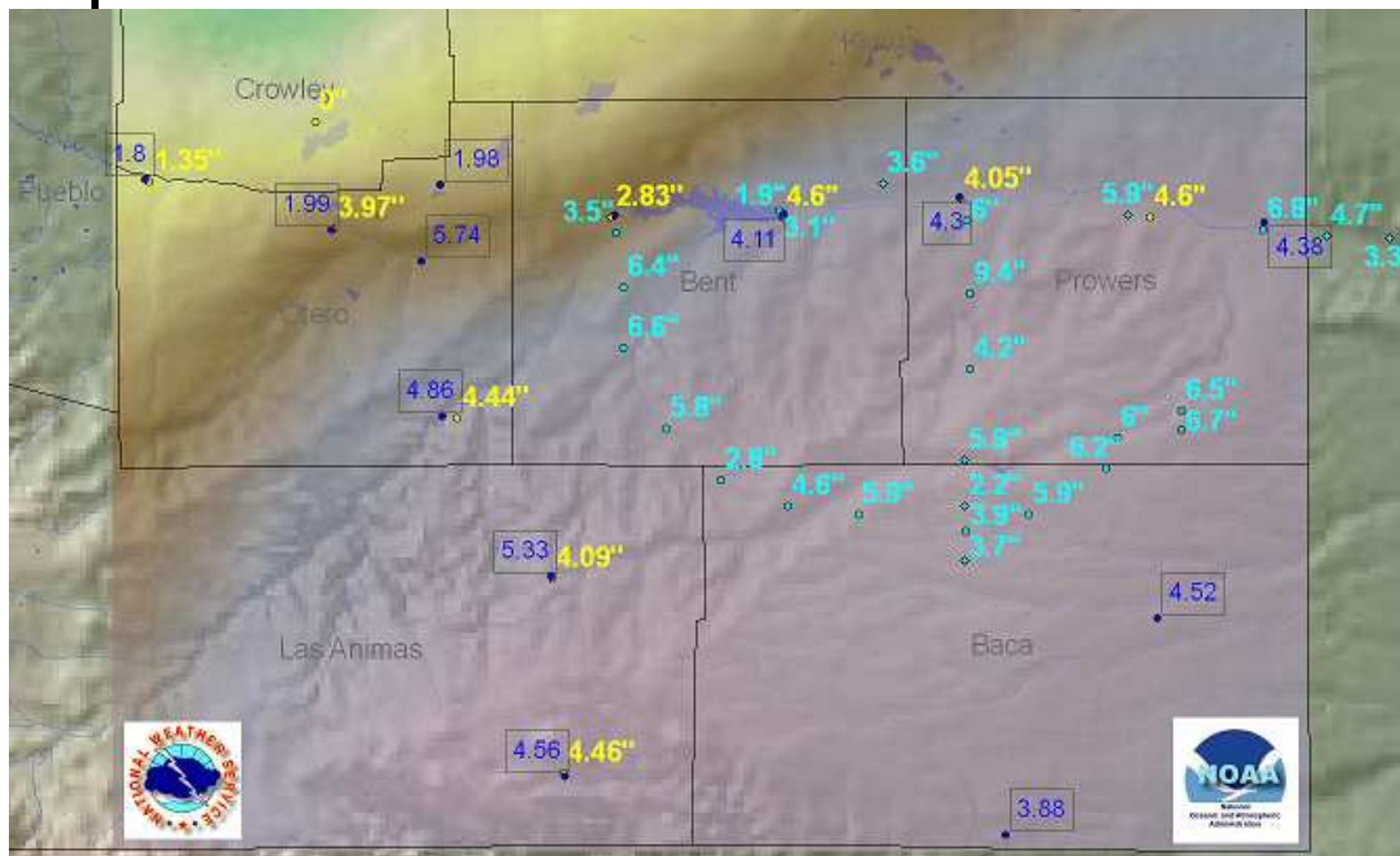
Colorado Snowcover

As of February 15, 2007

http://rapidfire.sci.gsfc.nasa.gov/subsets/?AERONET_BSRN_BAO_Boulder



Water in the Snowpack during early February and the Total Precipitation for the months of December and January



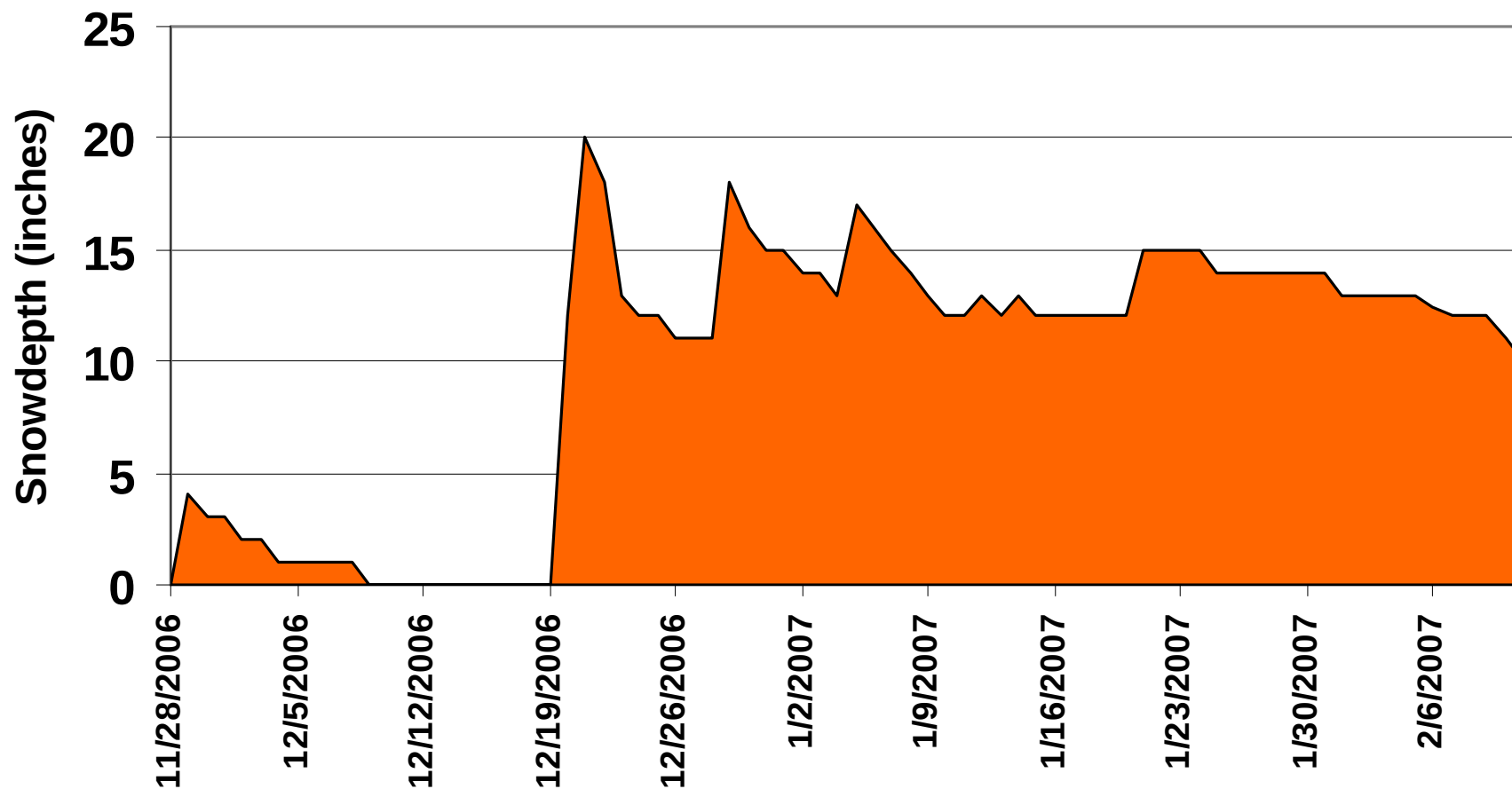
Yellow - water equivalent measured by coring/melting as reported by Cooperative Observers
Light Blue - water equivalent measured by coring/weighing as reported by NWS employees
Boxed - total precipitation for December and January as reported by Cooperative Observers

http://www.crh.noaa.gov/crnews/display_story.php?wfo=pub&storyid=5870&source=0



Greeley Daily Total Snowdepth

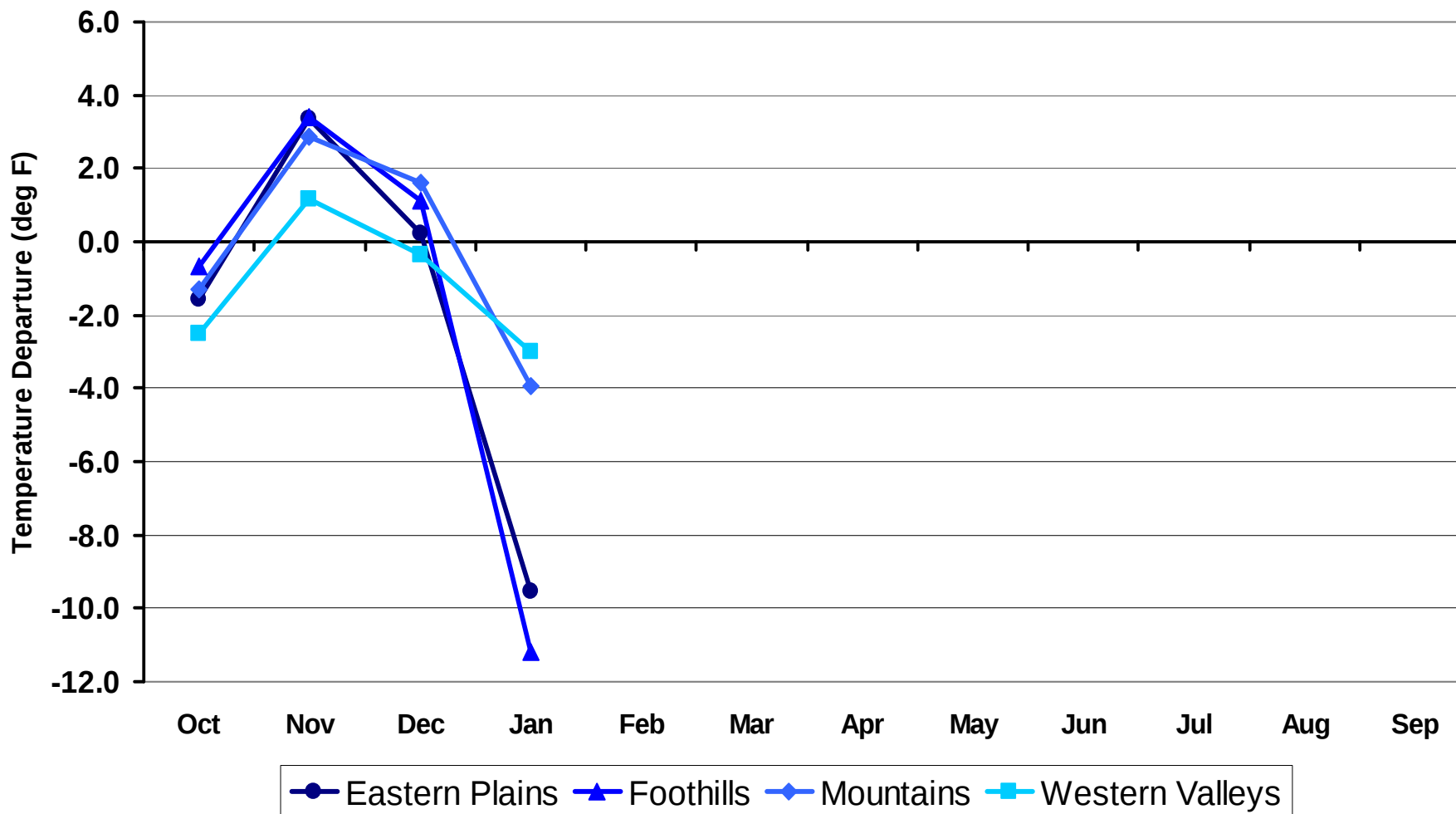
Greeley Snowdepth
from November 28, 2006 - February 11, 2007





Water Year 2007 Temperature Departures

Temperature Departures Water Year 2007

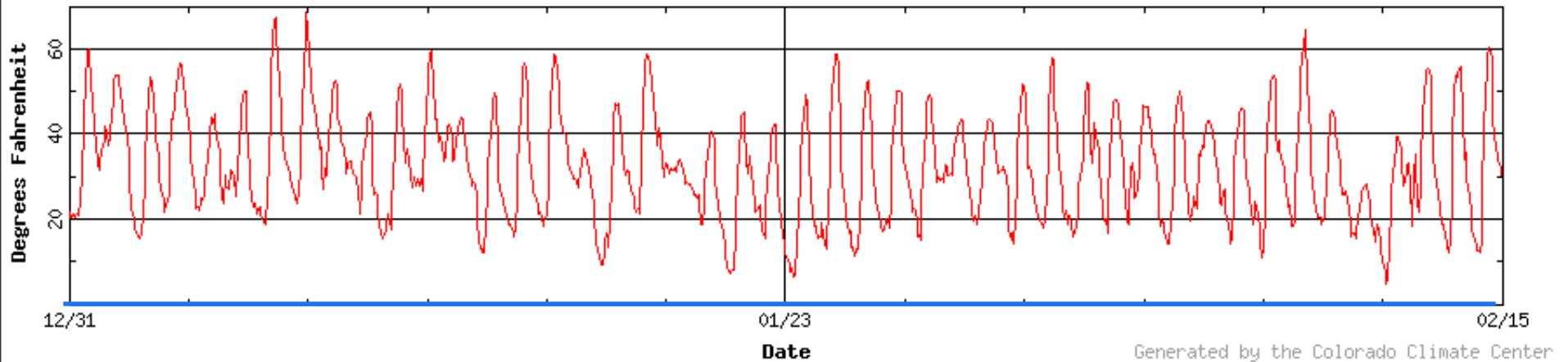




Kersey CoAgMet Temperatures

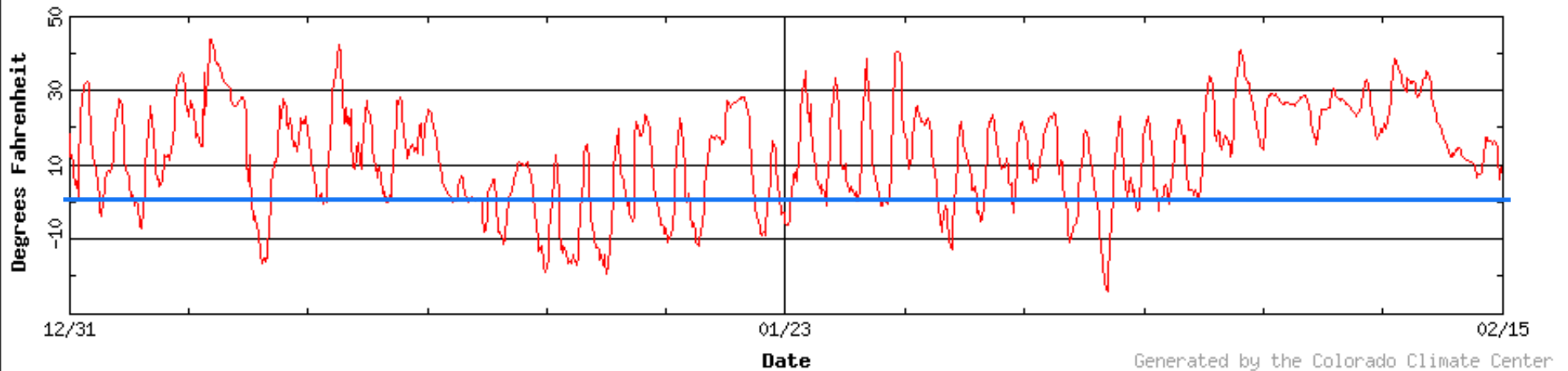
12/31/05 – 02/15/06

Temperature for KSY01 (12-31-2005 - 02-15-2006)



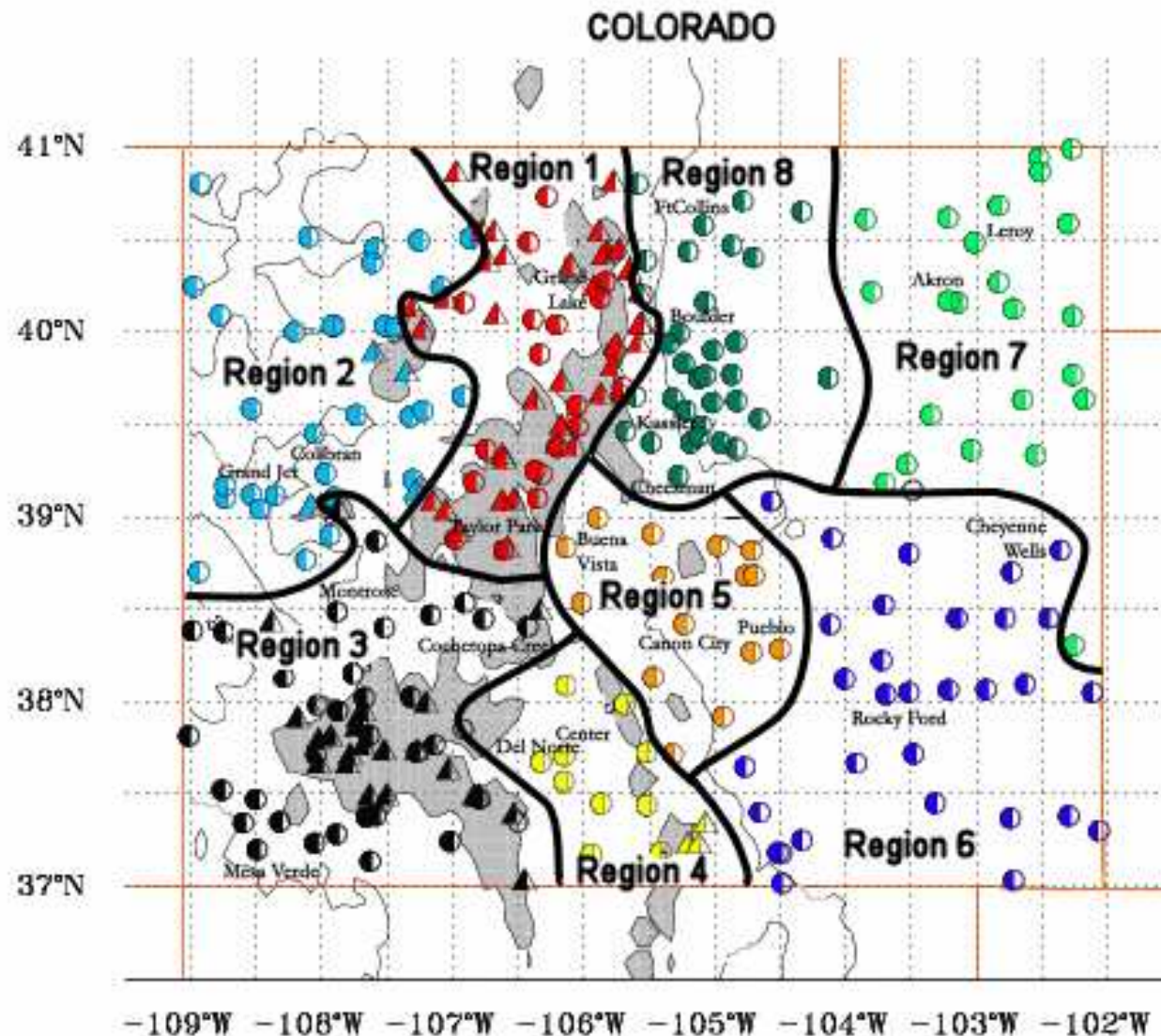
12/31/06 – 02/15/07

Temperature for KSY01 (12-31-2006 - 02-15-2007)





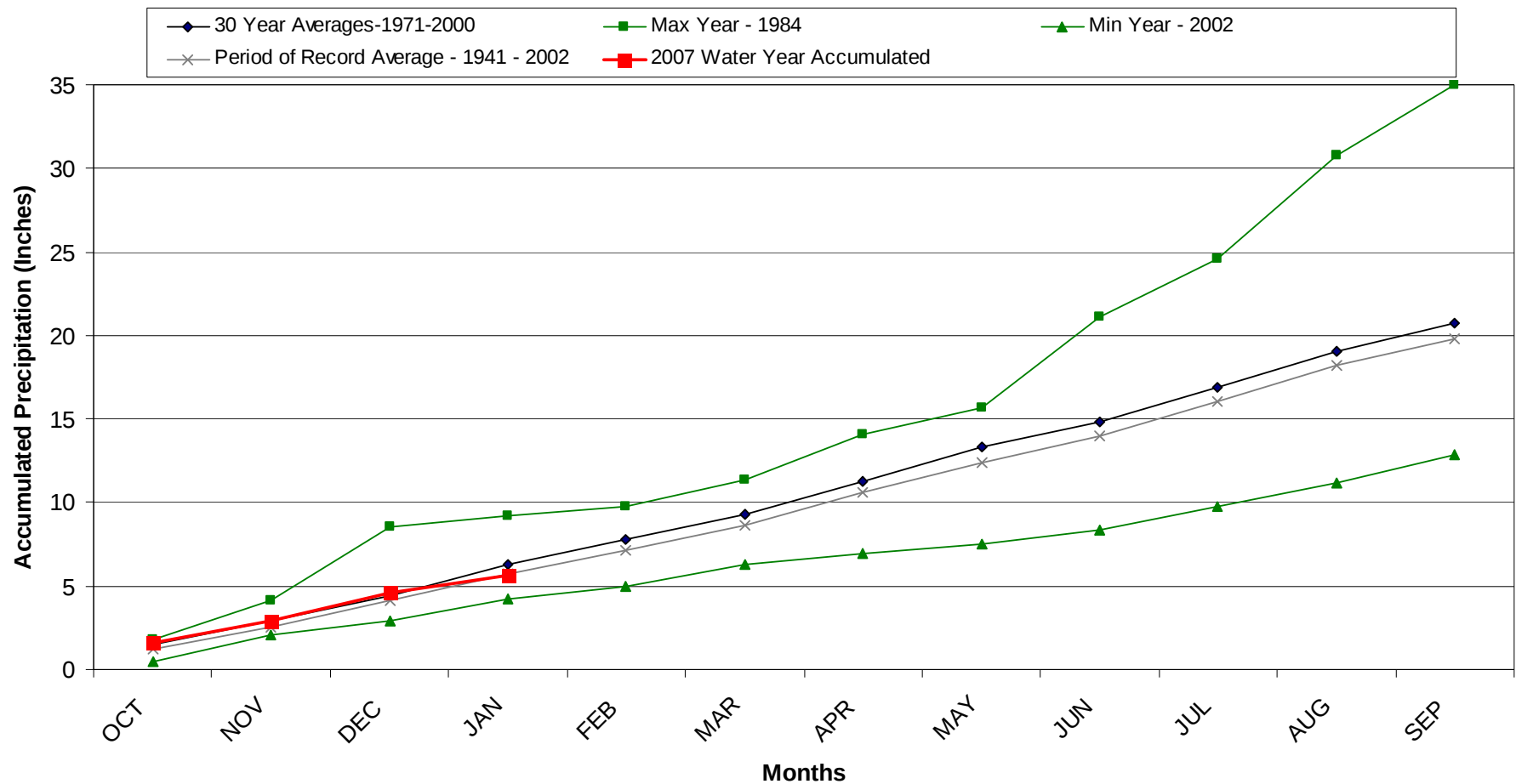
Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO





Division 1– Grand Lake 1NW

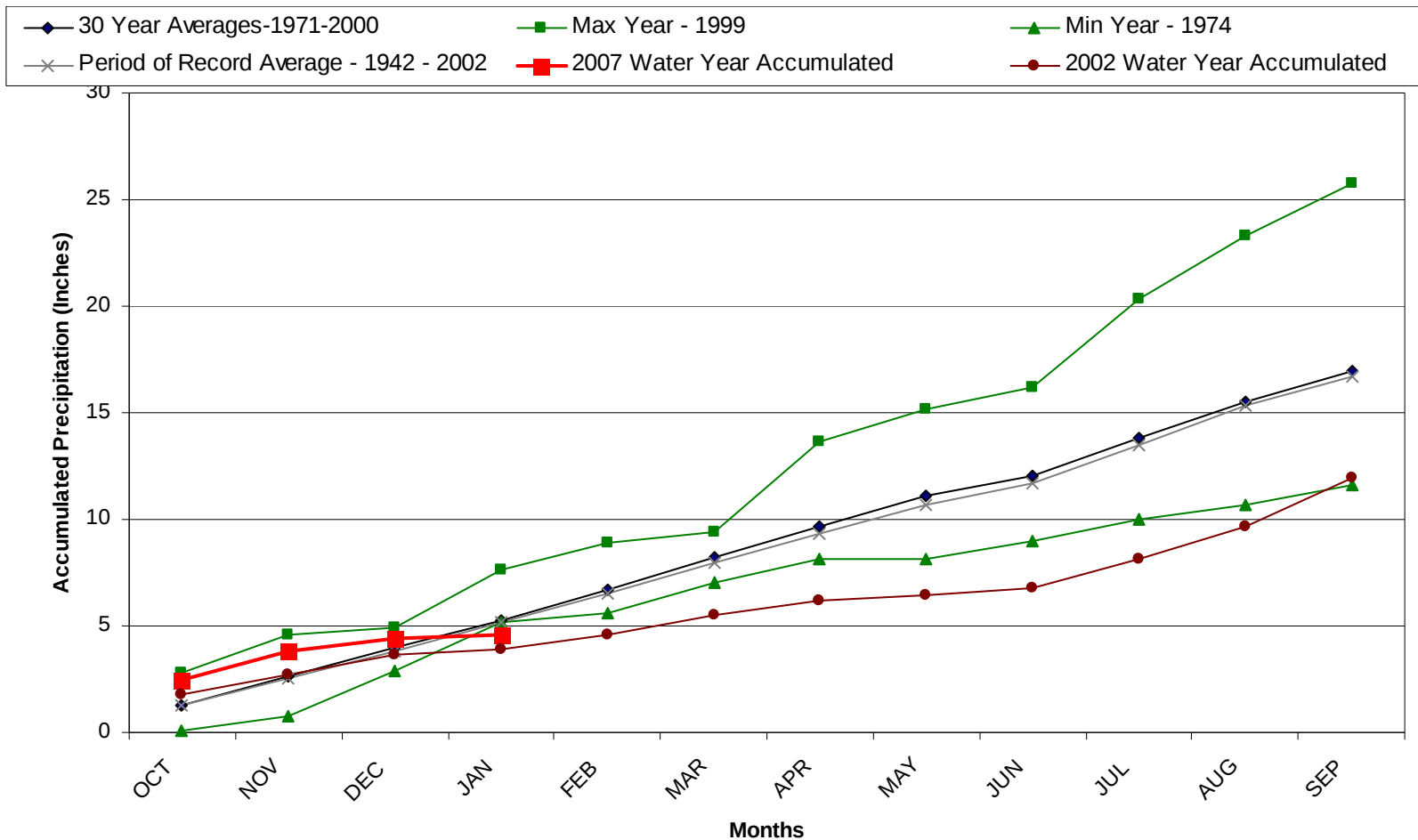
Grand Lake 1 NW 2007 Water Year





Division 1 – Taylor Park

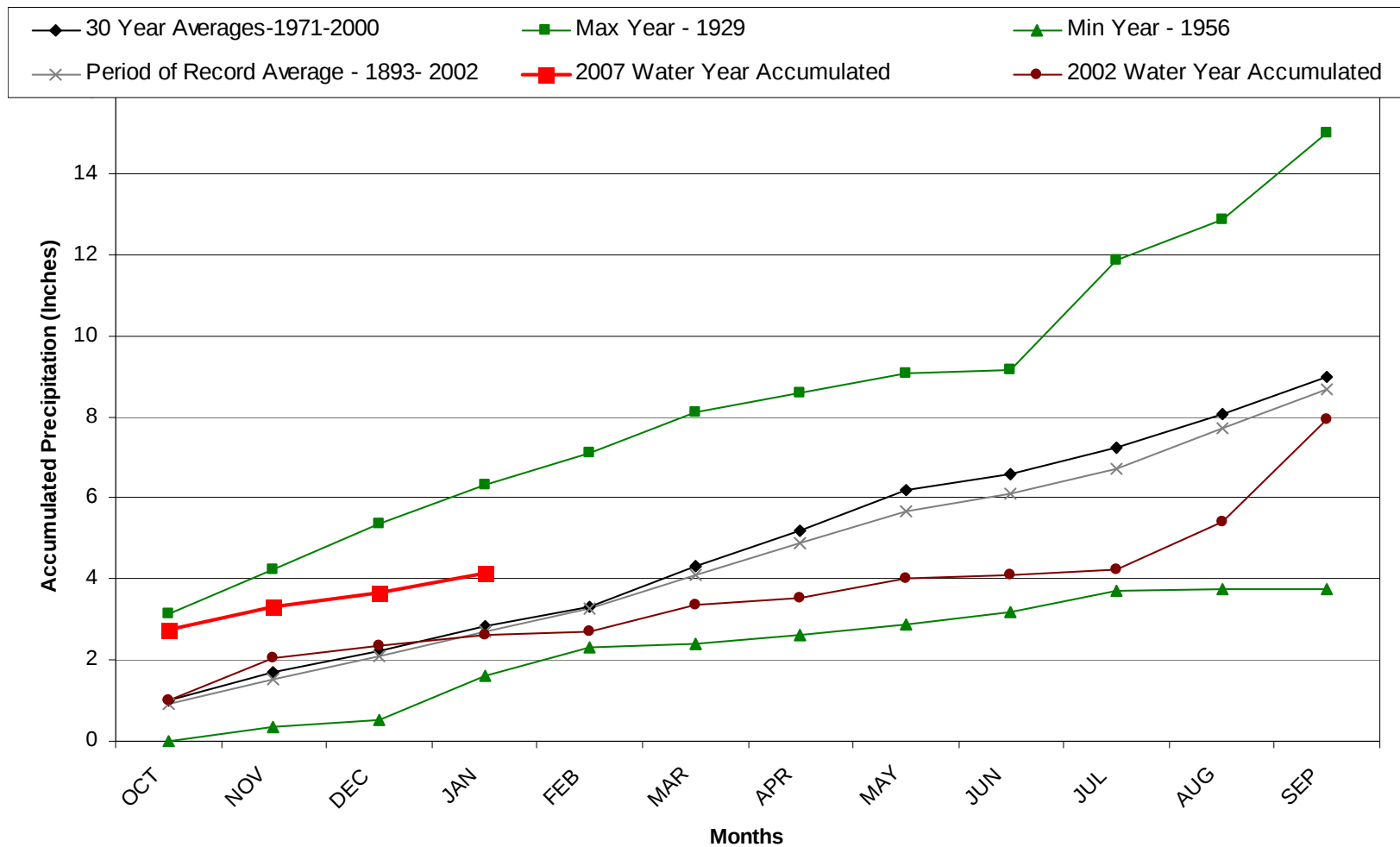
Taylor Park 2007 Water Year

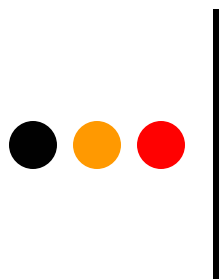




Division 2 – Grand Junction

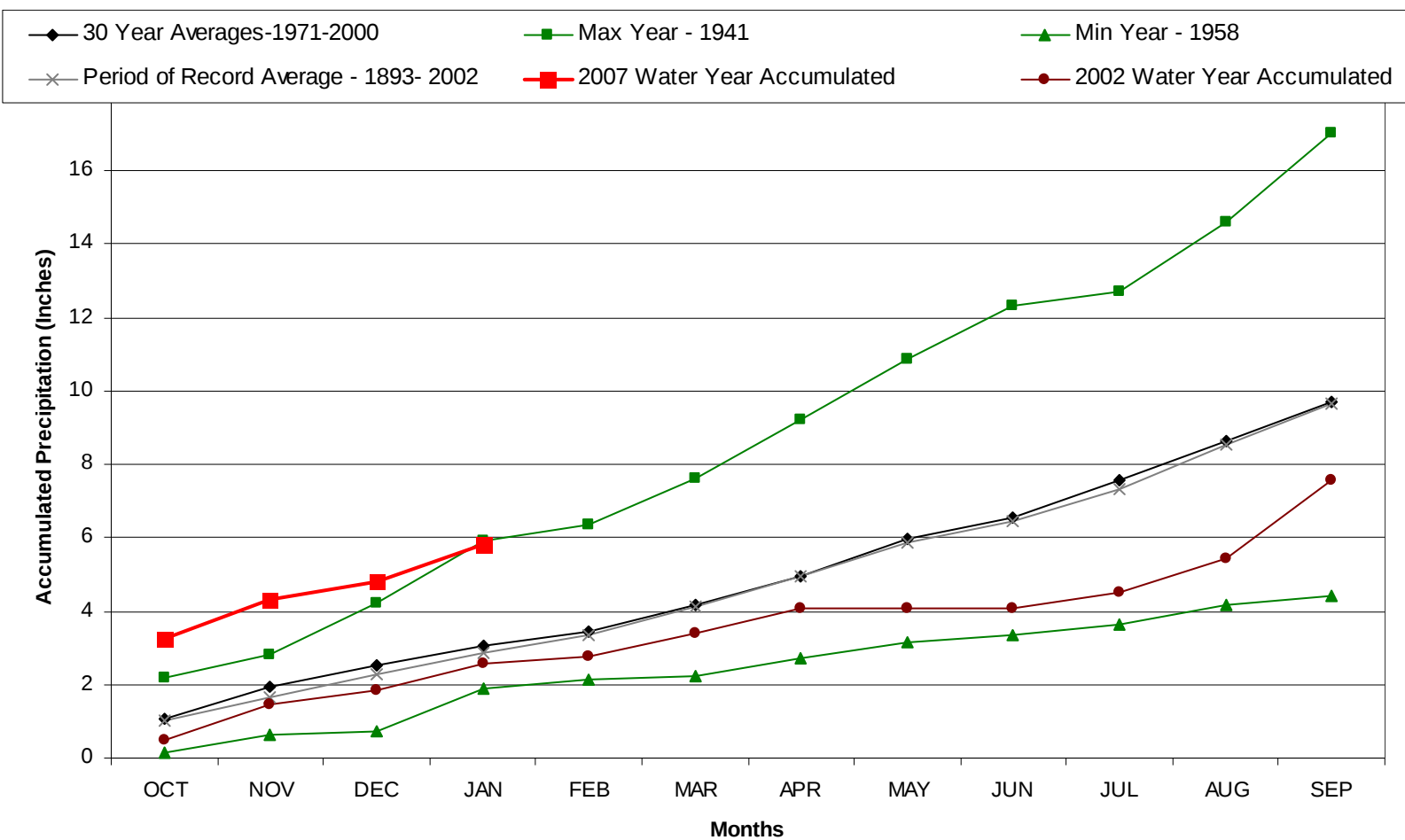
Grand Junction WSFO 2007 Water Year

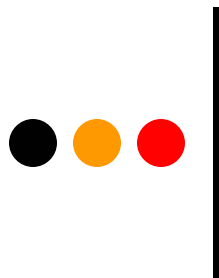




Division 3 – Montrose

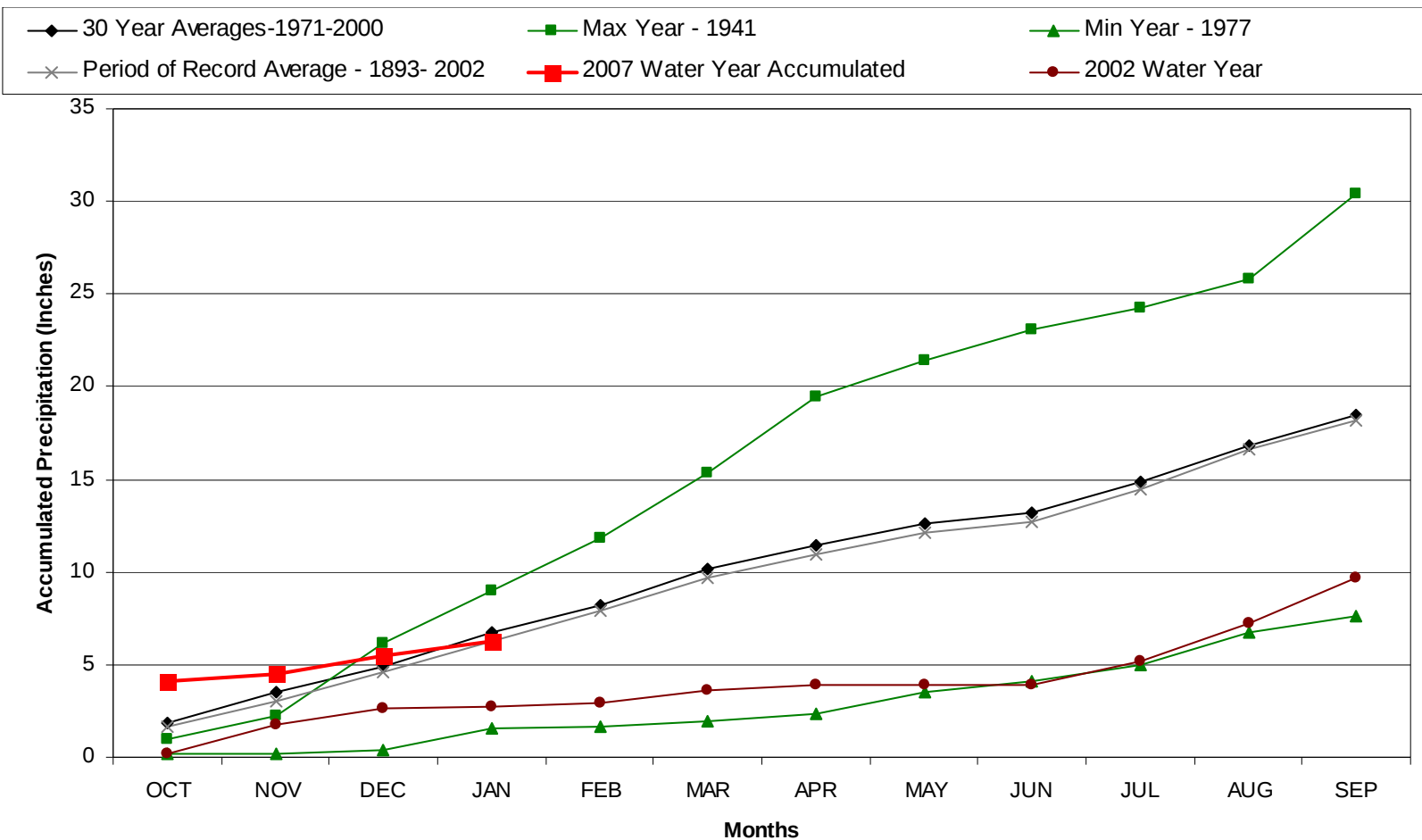
Montrose #2 2007 Water Year





Division 3 – Mesa Verde

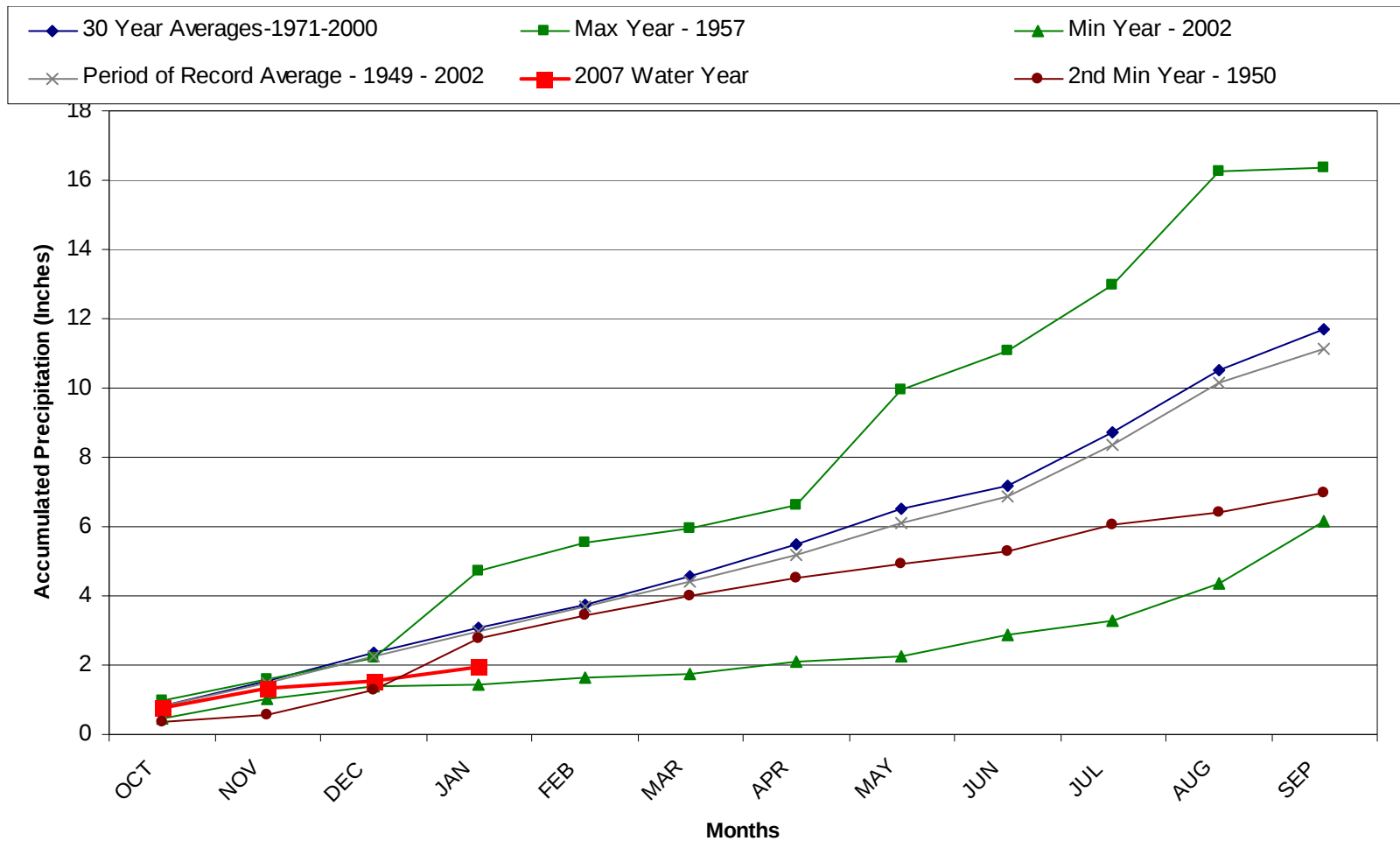
Mesa Verde NP 2007 Water Year





Division 3 – Cochetopa Creek

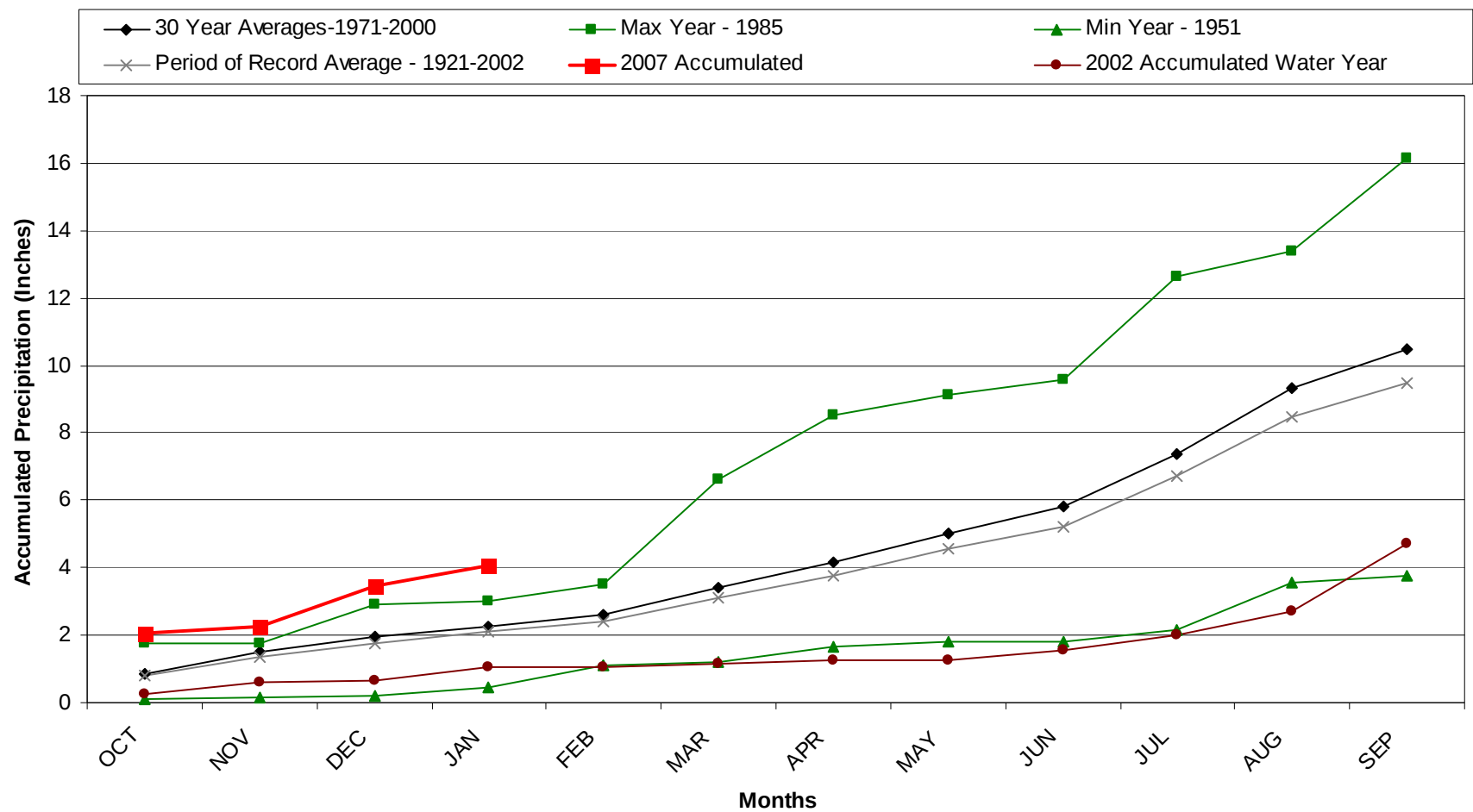
Cochetopa Creek 2007 Water Year





Division 4 – Del Norte

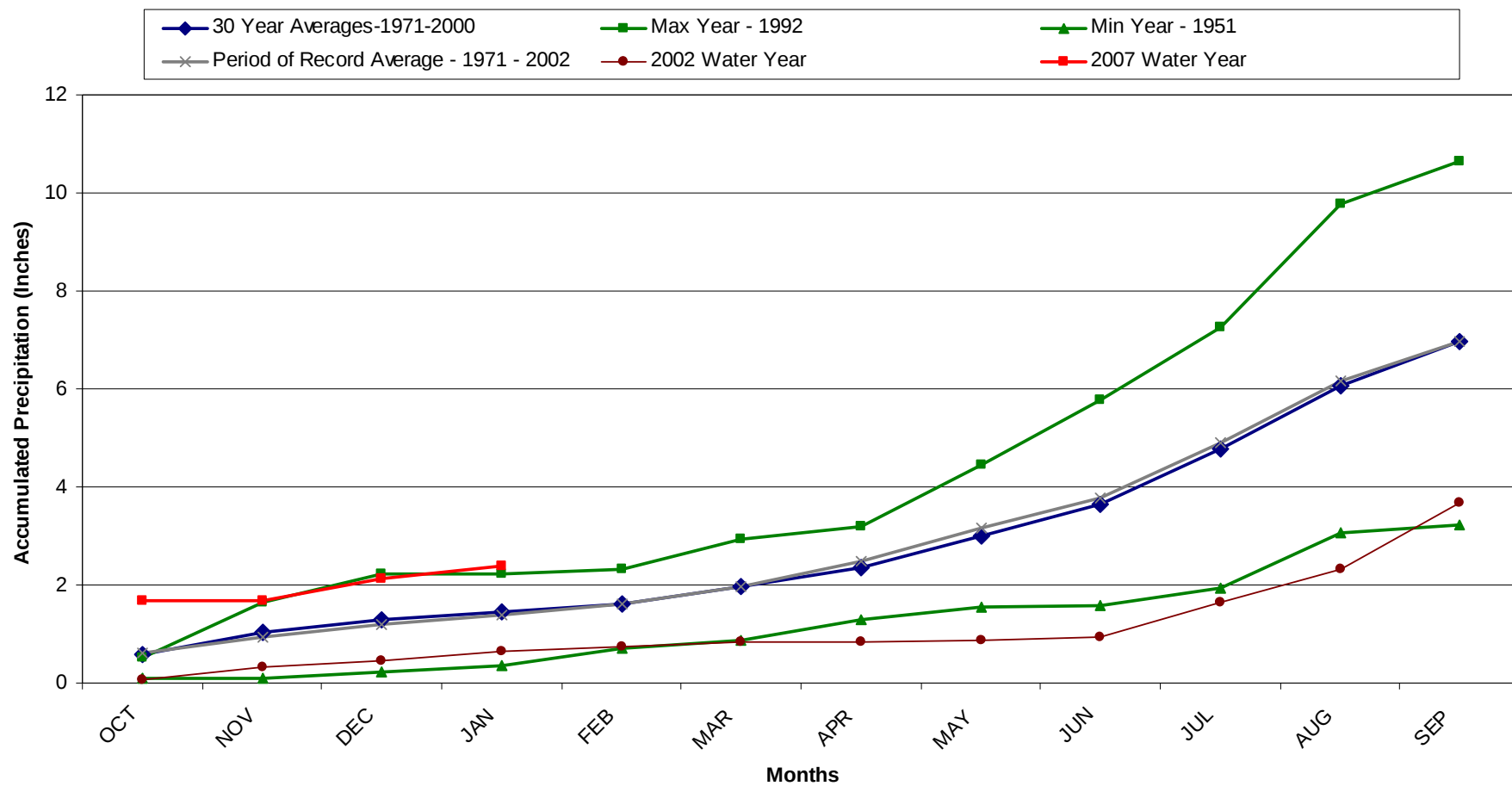
Del Norte 2007 Water Year





Division 4 – Center

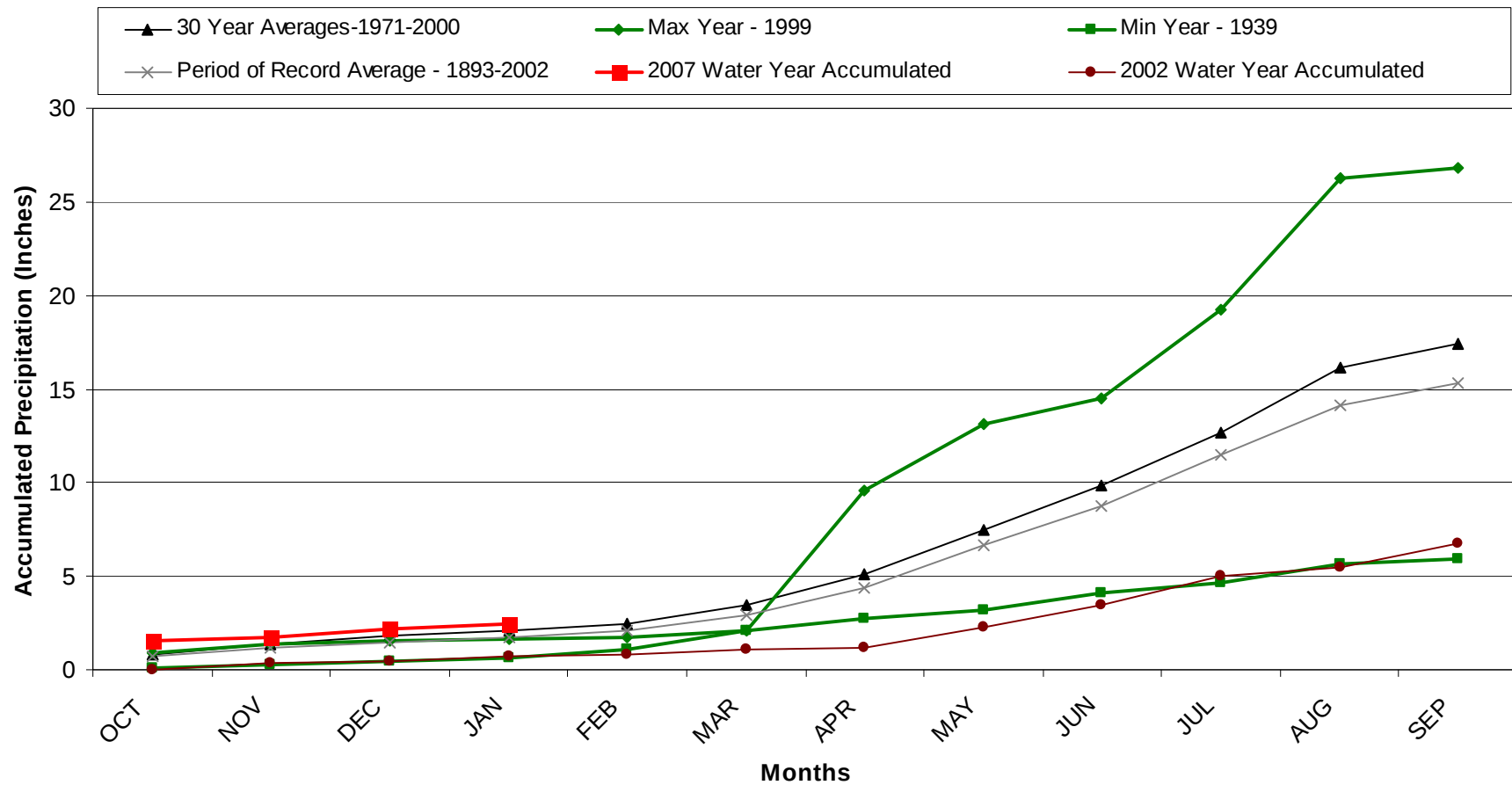
Center 4SSW 2007 Water Year





Division 5 – Colorado Springs

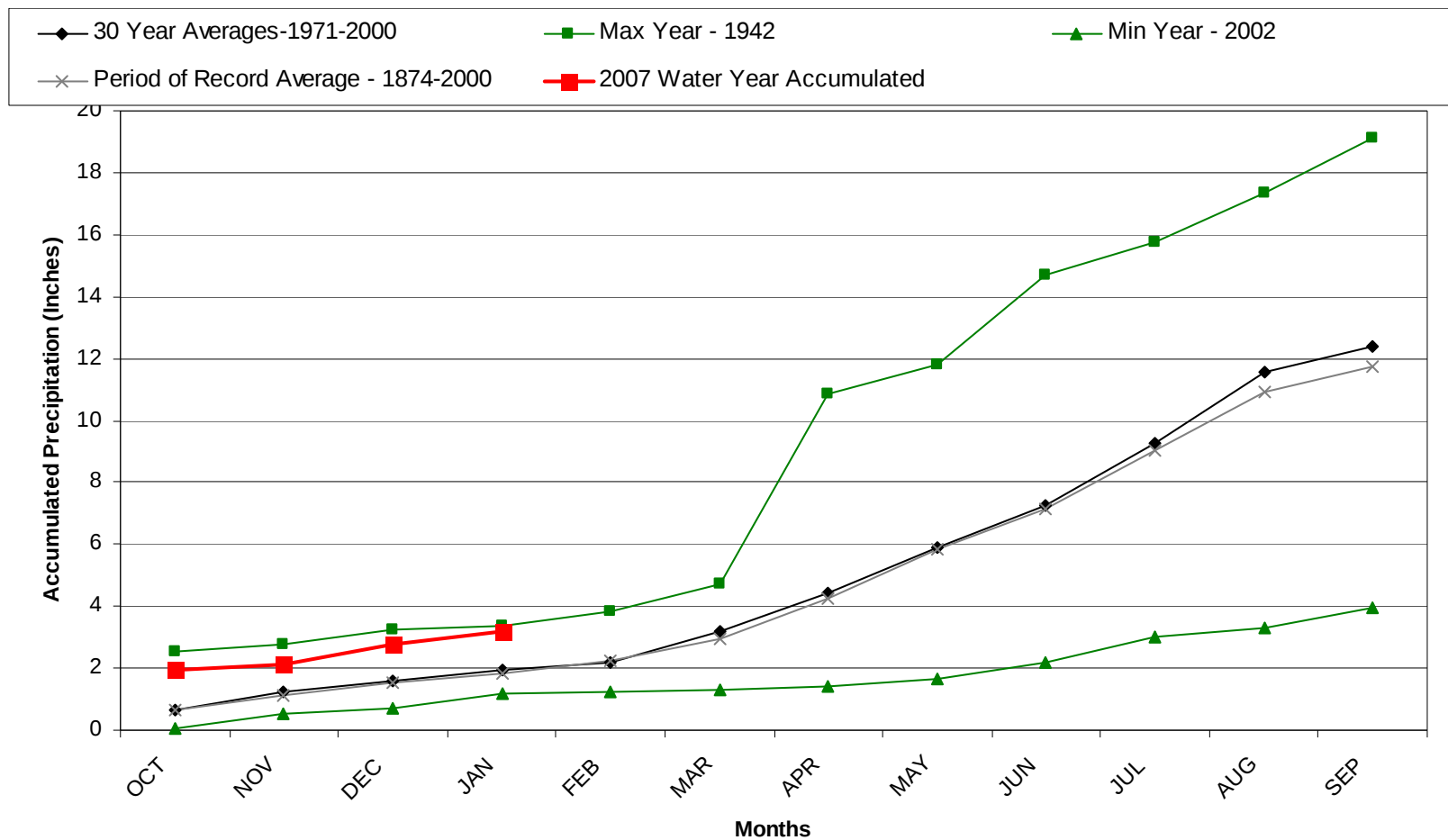
Colorado Springs 2007 Water Year





Division 5 – Pueblo

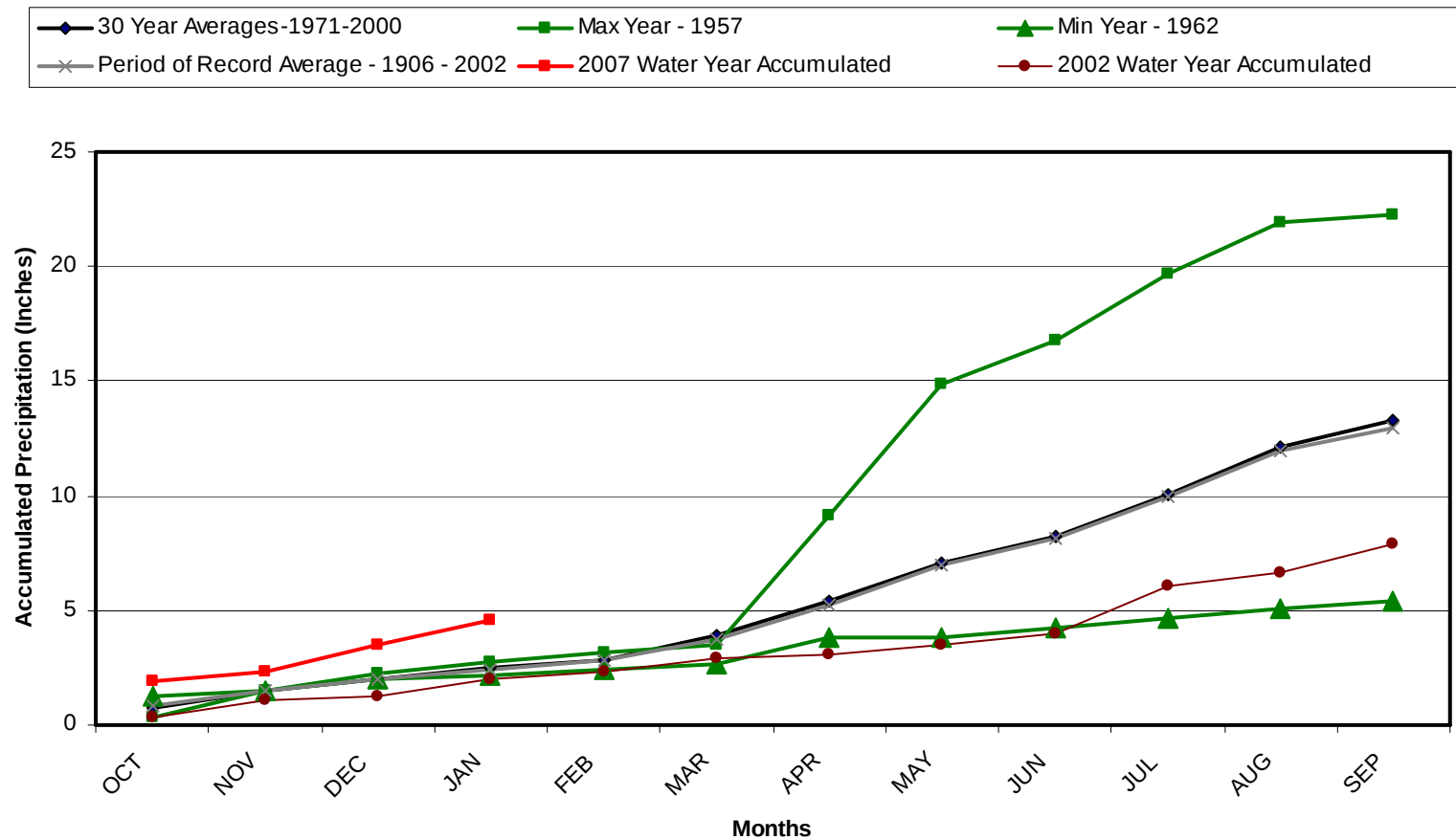
Pueblo WSO 2007 Water Year

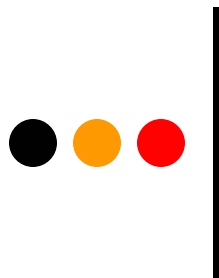




Division 5 – Canon City

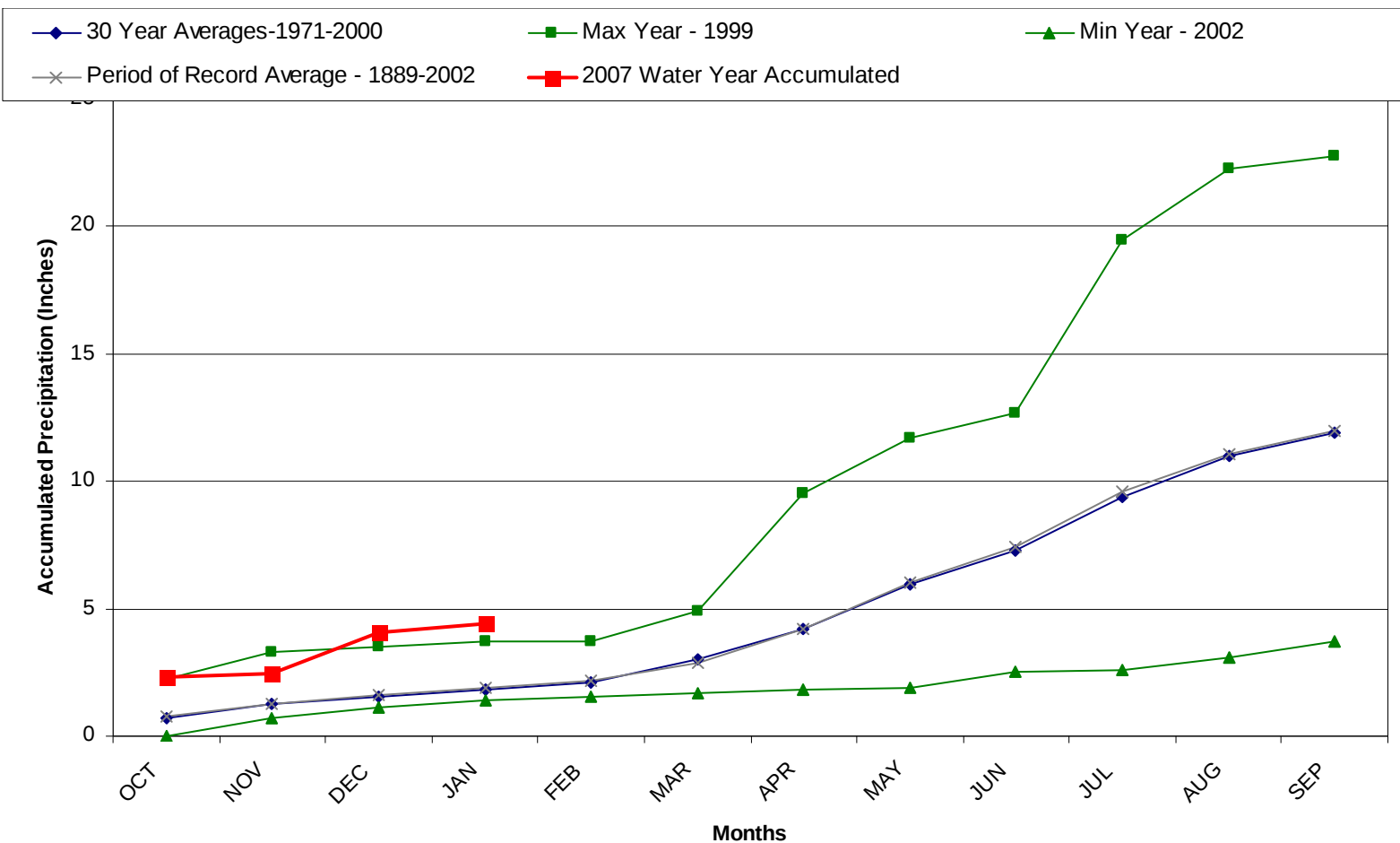
Canon City 2007 Water Year





Division 6 – Rocky Ford

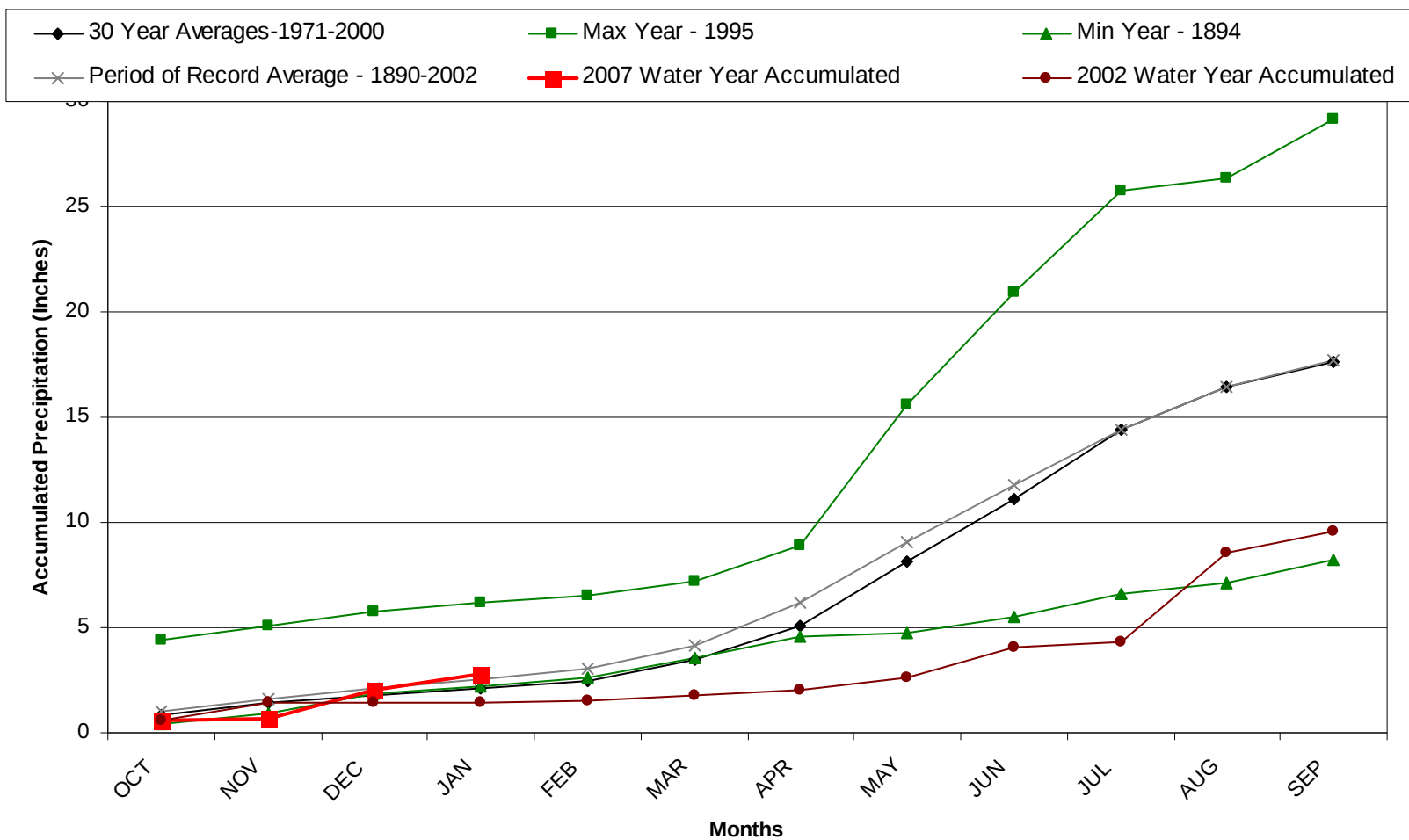
Rocky Ford 2007 Water Year





Division 7 – Leroy

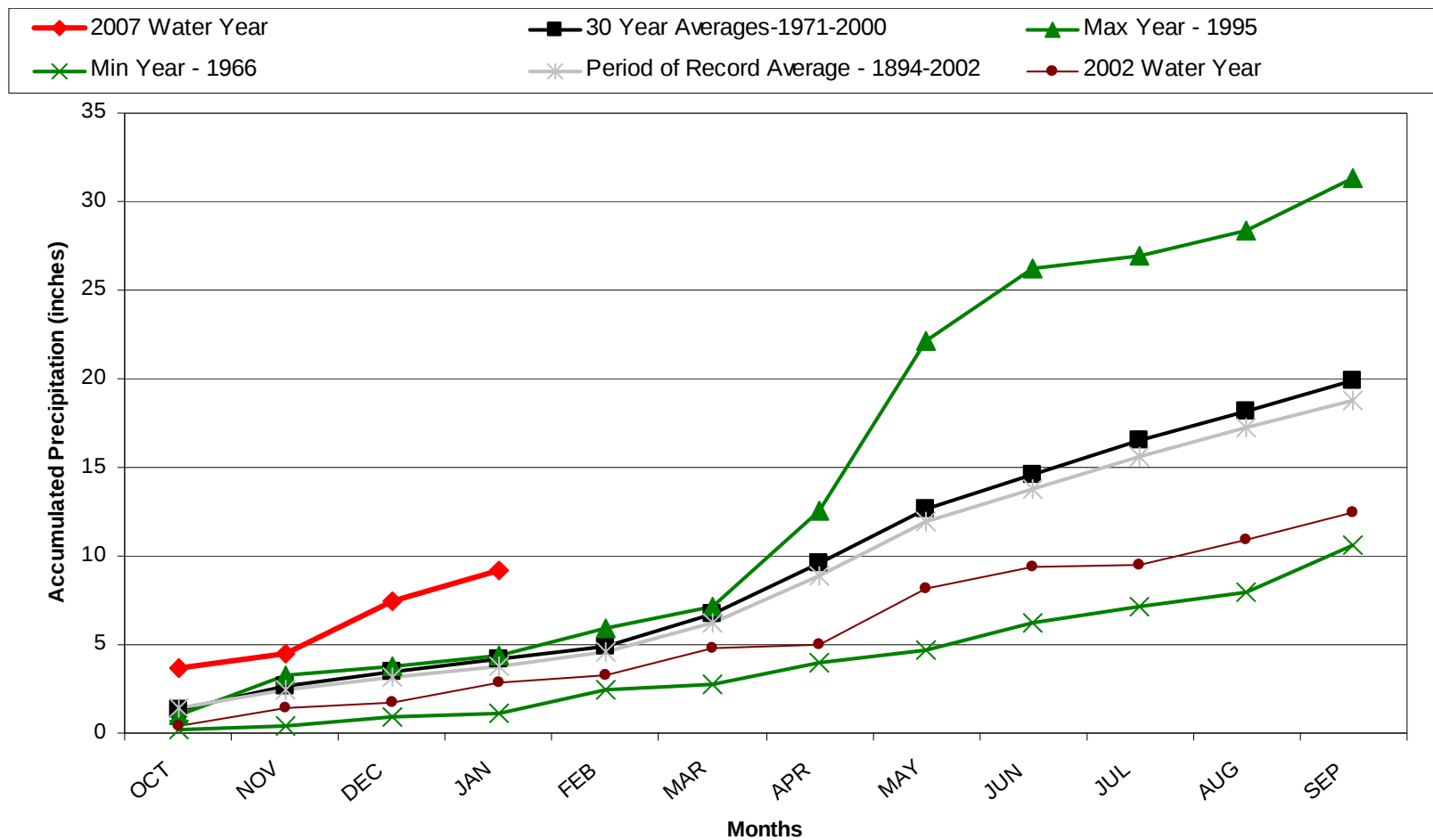
Leroy 5SW 2007 Water Year





Division 8 – Boulder

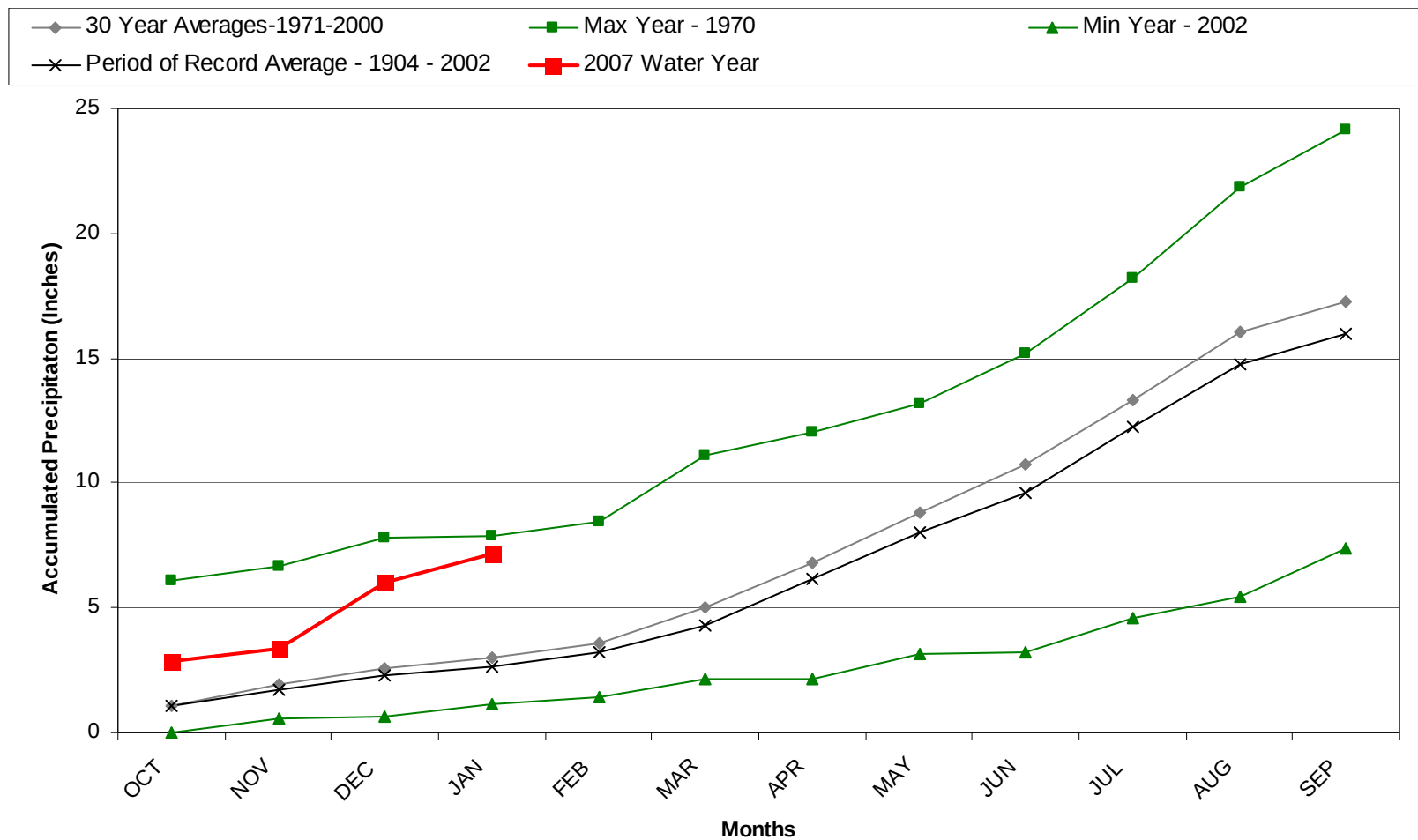
Boulder 2007 Water Year





Division 8 – Cheesman

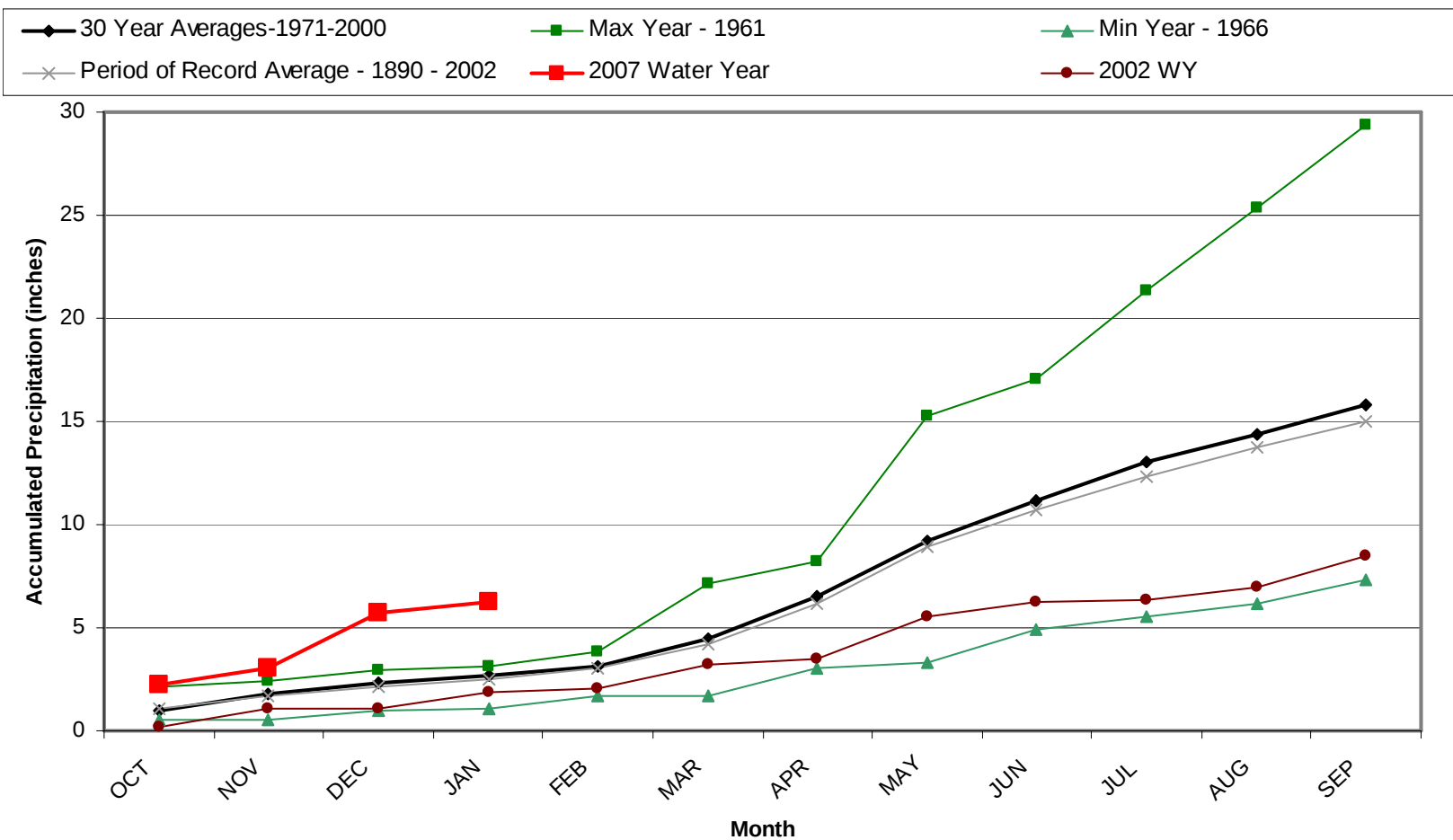
Cheesman 2007 Water Year





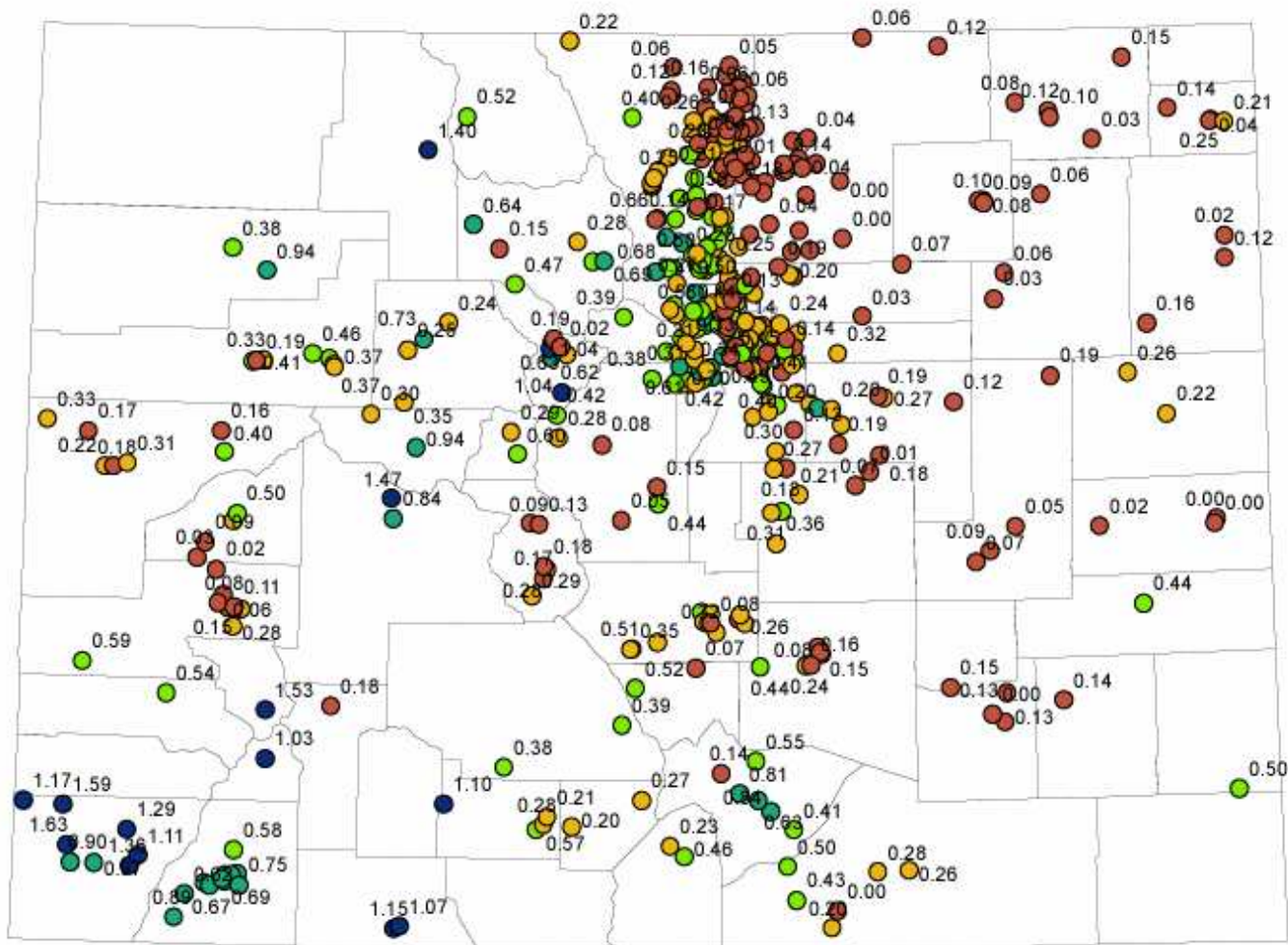
Division 8 – Fort Collins

Fort Collins 2007 Water Year





CoCoRaHS Stations for February 1-15, 2007 precipitation totals



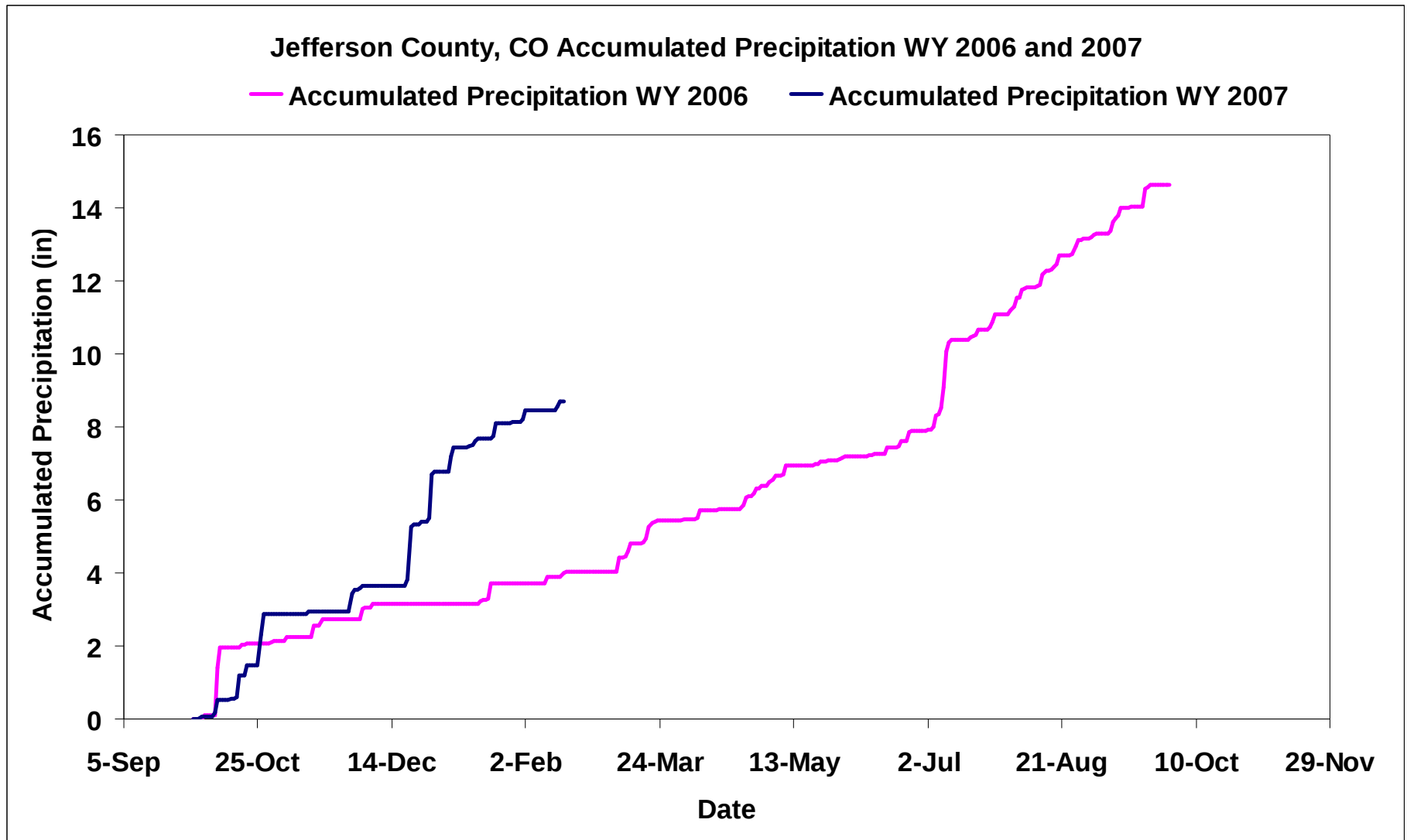
Legend

CoCo Precipitation Precip

- 0.00 - 0.19
- 0.19 - 0.37
- 0.37 - 0.60
- 0.60 - 0.97
- 0.97 - 1.63

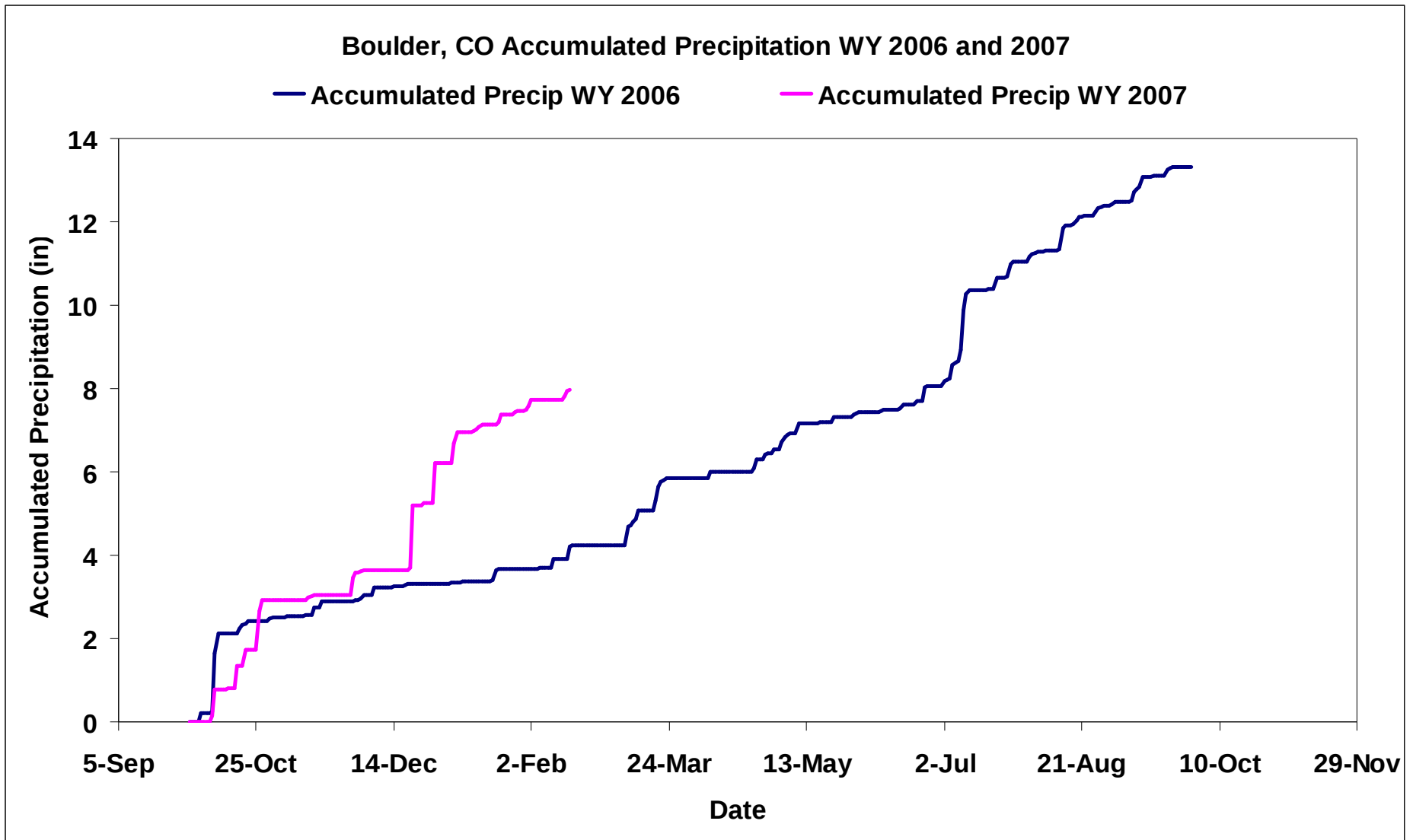


CoCoRaHS Accumulated Precipitation



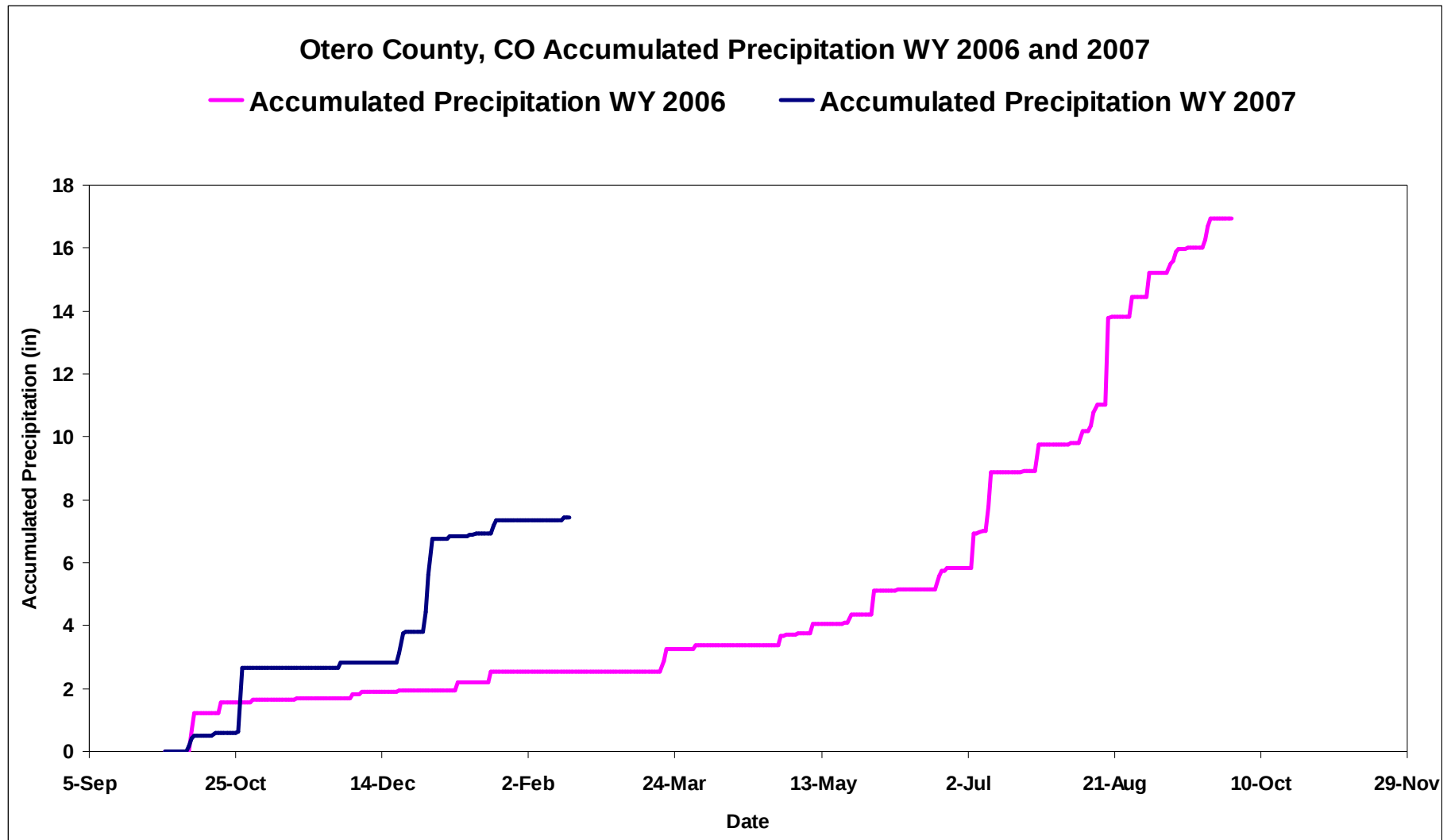


CoCoRaHS Accumulated Precipitation



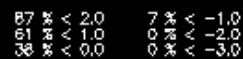


CoCoRaHS Accumulated Precipitation



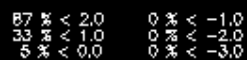


1/2007 3 mon. SPI

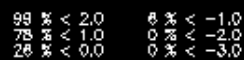
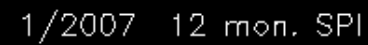


Produced by:
Colorado Climate Center
Fort Collins, CO

1/2007 6 mon. SPI



Produced by:
Colorado Climate Center
Fort Collins, CO

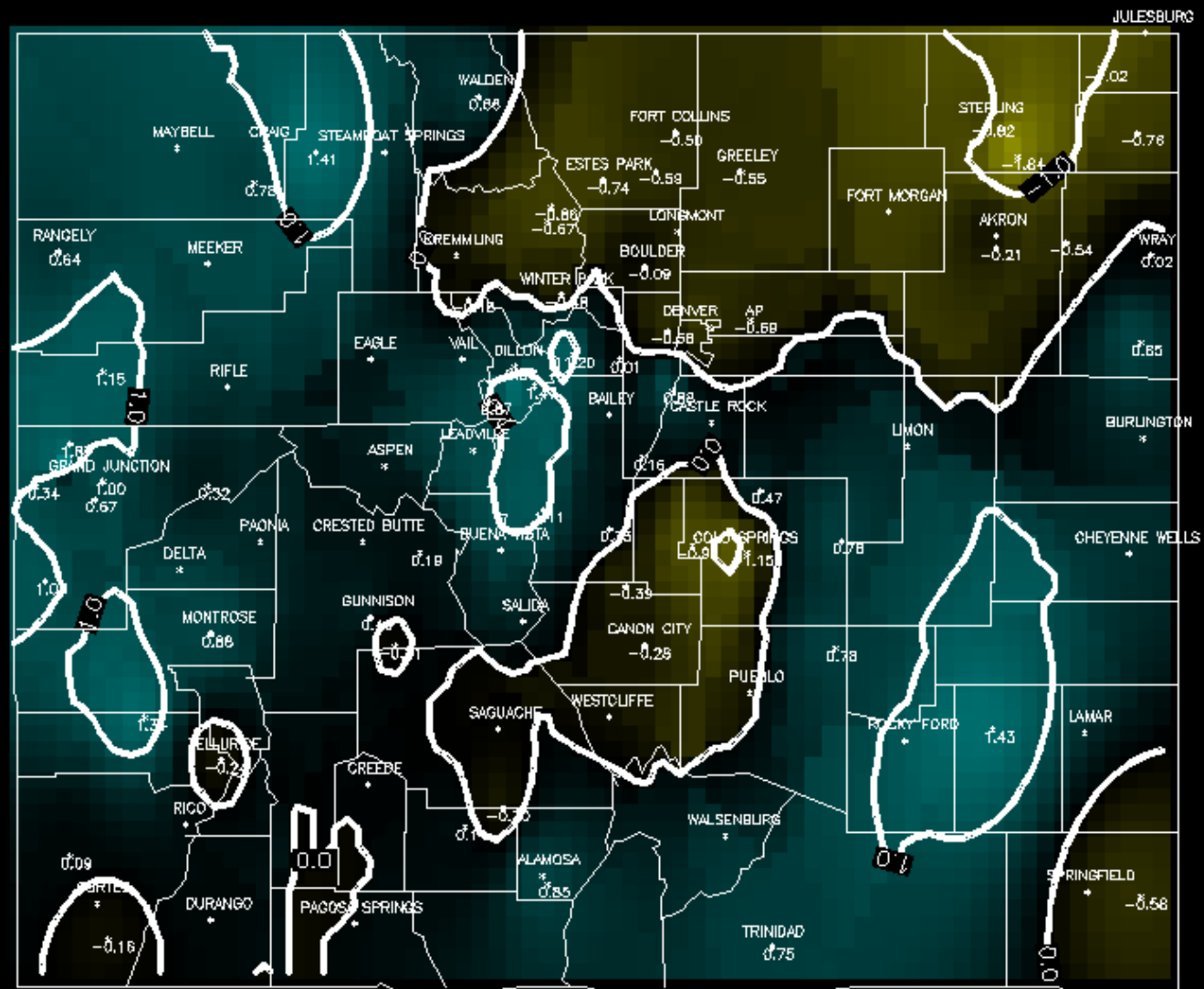


Produced by:
Colorado Climate Center
Fort Collins, CO

24 Month SPI

Colorado

1/2007 24 mon. SPI

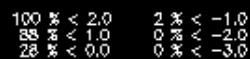


100 % < 2.0
90 % < 1.0
28 % < 0.0

2 % < -1.0
0 % < -2.0
0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

1/2007 48 mon. SPI



Produced by:
Colorado Climate Center
Fort Collins, CO

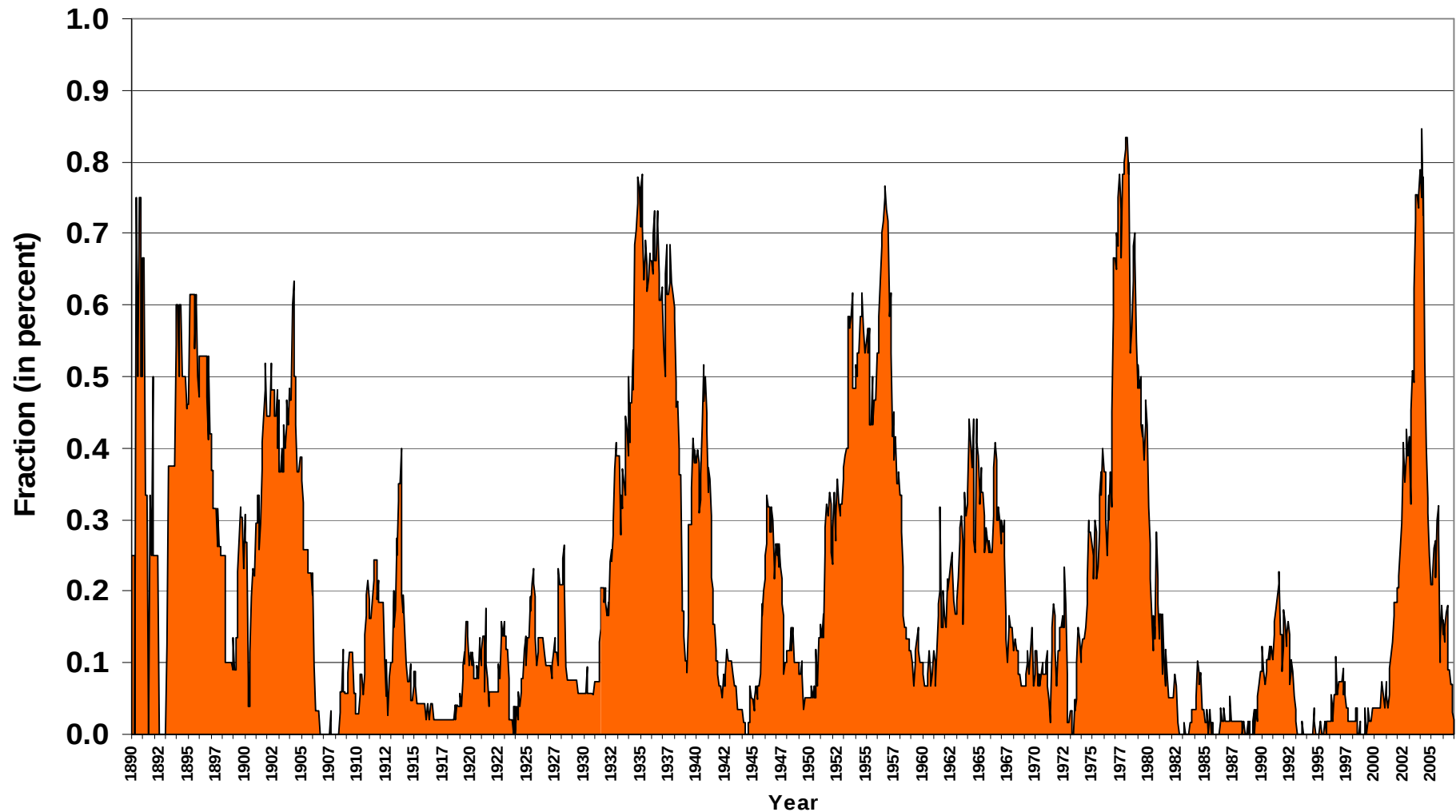


Standardized Precipitation Index

Fraction of Colorado in Drought

Based on 48 month SPI

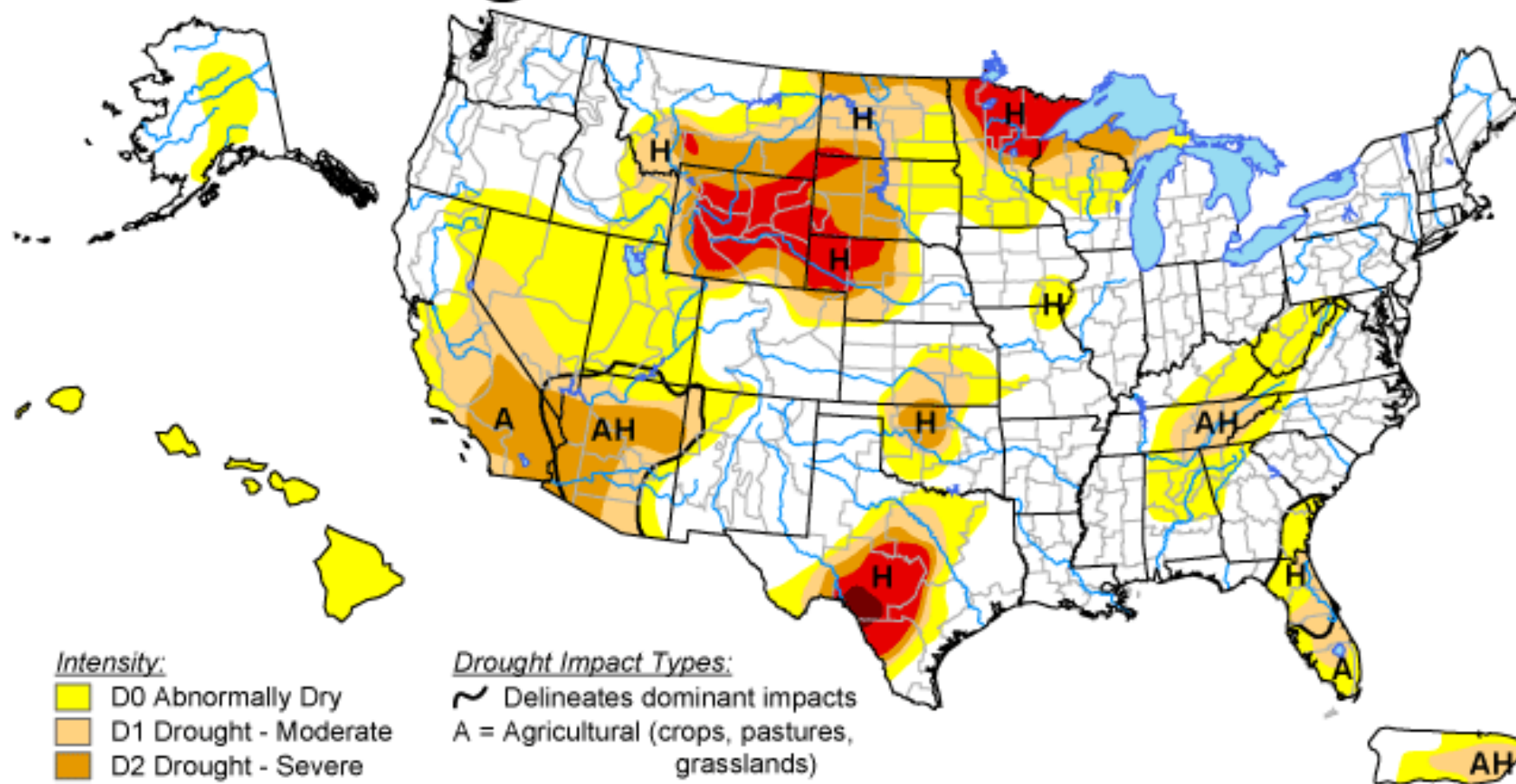
(1890 - Jan 2007)



U.S. Drought Monitor

February 13, 2007

Valid 7 a.m. EST



Intensity:

- Yellow D0 Abnormally Dry
- Light Orange D1 Drought - Moderate
- Orange D2 Drought - Severe
- Red D3 Drought - Extreme
- Dark Red 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, February 15, 2007

Author: Richard Tinker, CPC/NOAA

Projected Conditions at 0.2 Probability Level 12 Month SPI at 6 months

Colorado

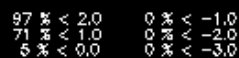
1/2007 12 mon. SPI – Projected 6 mon. at P=0.20



100 % < 2.0 0 % < -1.0
88 % < 1.0 0 % < -2.0
32 % < 0.0 0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

1/2007 12 mon. SPI – Projected 6 mon. at P=0.50

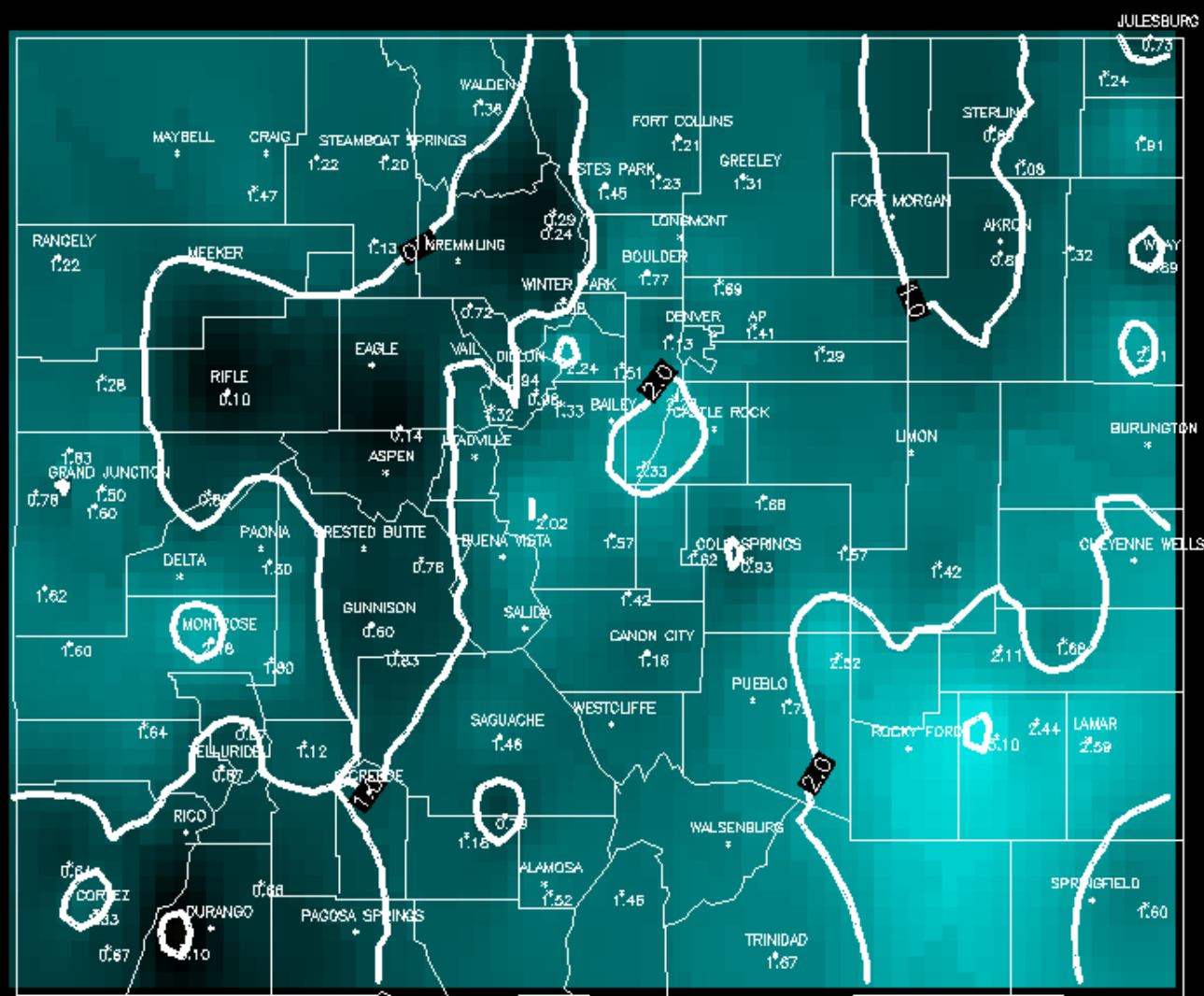


Produced by:
Colorado Climate Center
Fort Collins, CO

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

Colorado

1/2007 12 mon. SPI — Projected 6 mon. at P=0.80



88 % < 2.0
22 % < 1.0
0 % < 0.0

0 % < -1.0
0 % < -2.0
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”

