



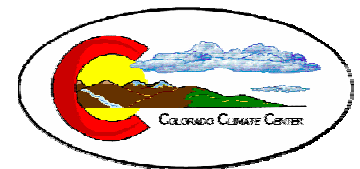
Climate Update

Nolan Doesken, State Climatologist
Atmospheric Science Department
Colorado State University

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

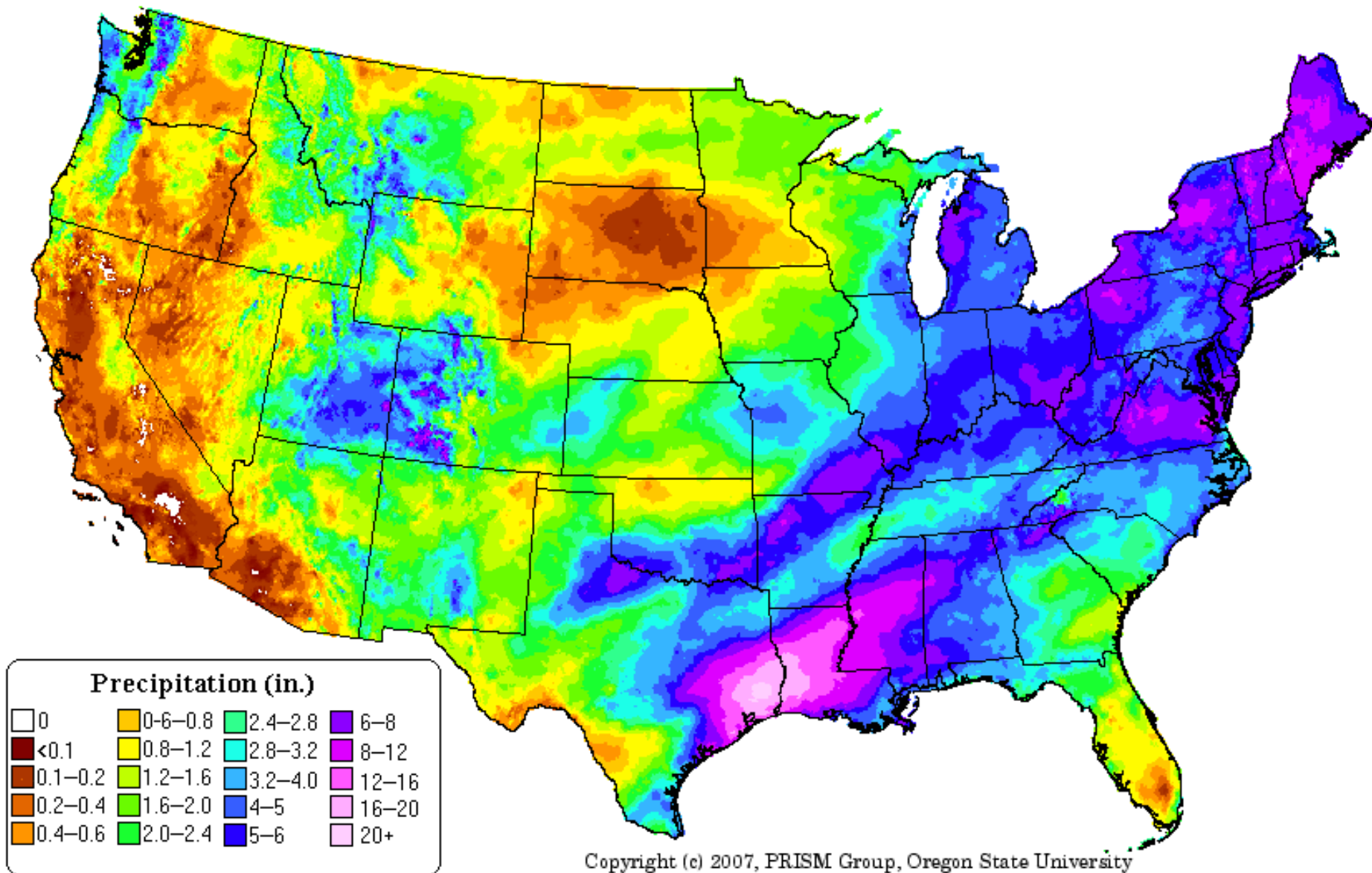
Presented to Water Availability Task Force, DOW, Denver,
CO, February 16, 2007

Prepared by Odie Bliss and Wendy Ryan



Precipitation: Oct 2006

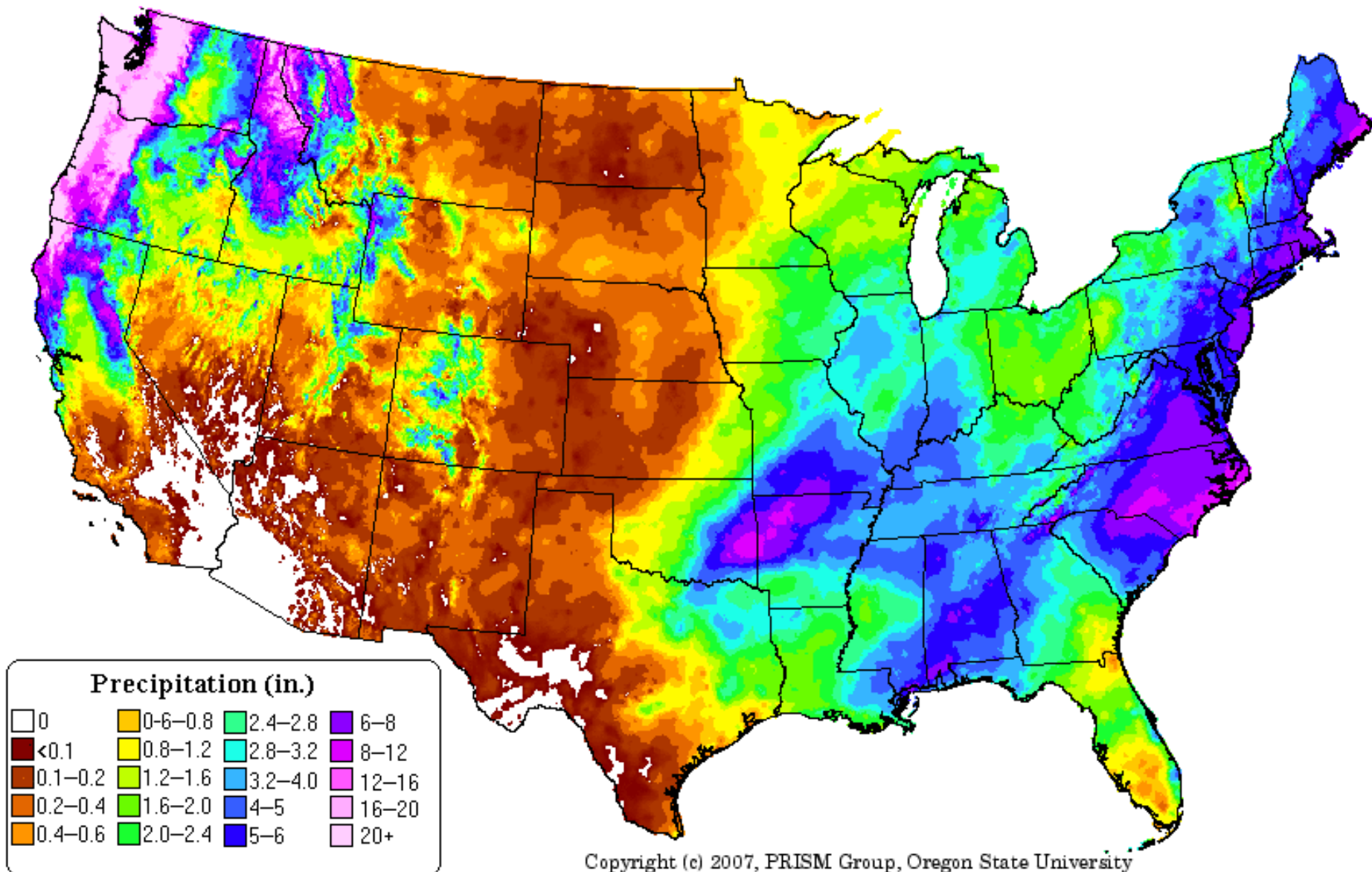
Preliminary Data



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

Precipitation: Nov 2006

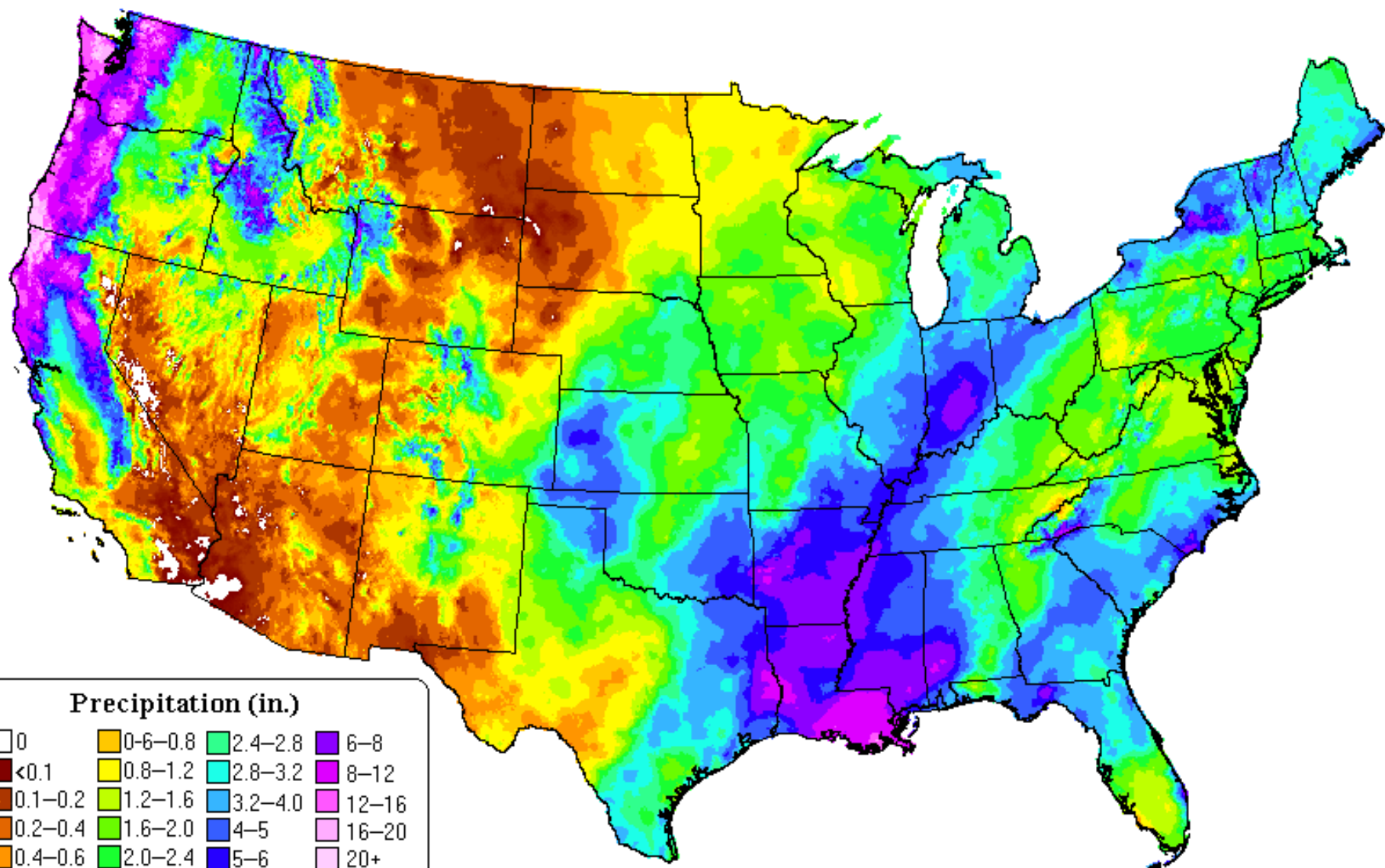
Provisional Data



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<http://www.ocs.oregonstate.edu/prism> - Map created Feb 09 2007

Precipitation: Dec 2006

Provisional Data

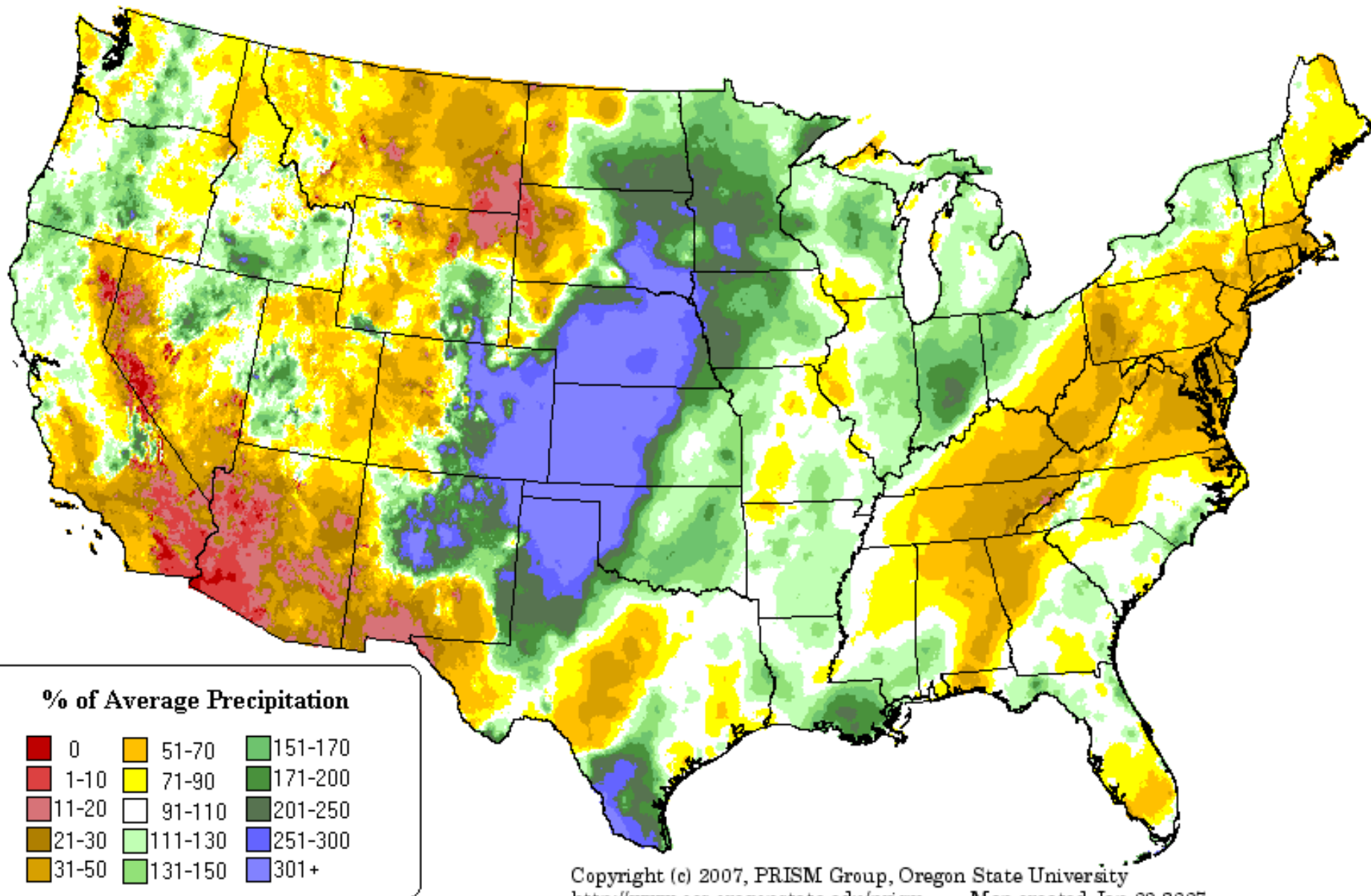


Precipitation (in.)		
0	0-0.6	2.4-2.8
<0.1	0.6-0.8	2.8-3.2
0.1-0.2	0.8-1.2	3.2-4.0
0.2-0.4	1.2-1.6	4-5
0.4-0.6	1.6-2.0	5-6
	2.0-2.4	6-8
		8-12
		12-16
		16-20
		20+

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<http://www.ocs.oregonstate.edu/prism> - Map created Feb 09 2007

1-month Percent of Average Precipitation: Dec 2006

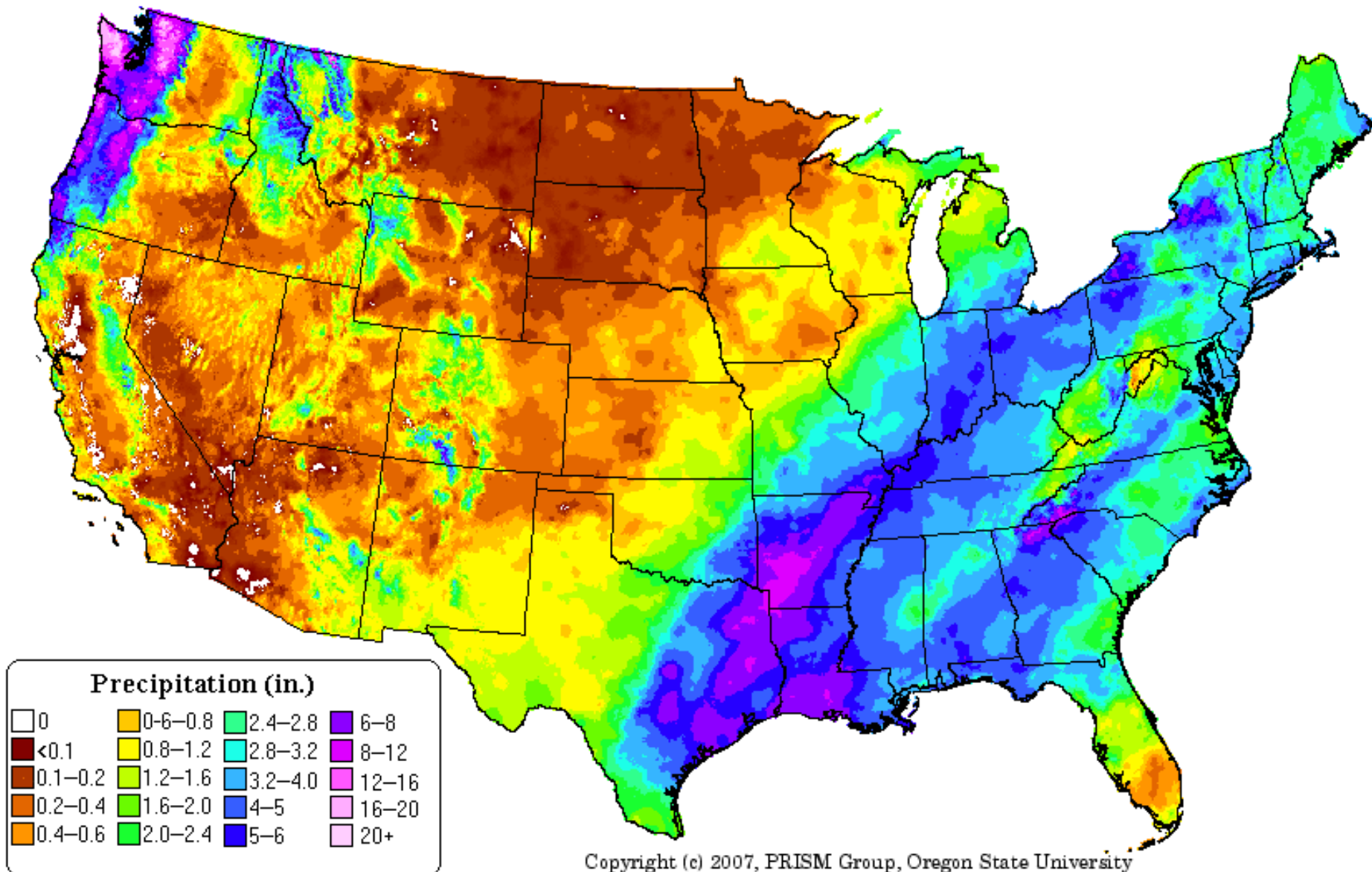
Provisional Data



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<http://www.ocs.oregonstate.edu/prism> - Map created Jan 09 2007

Precipitation: Jan 2007

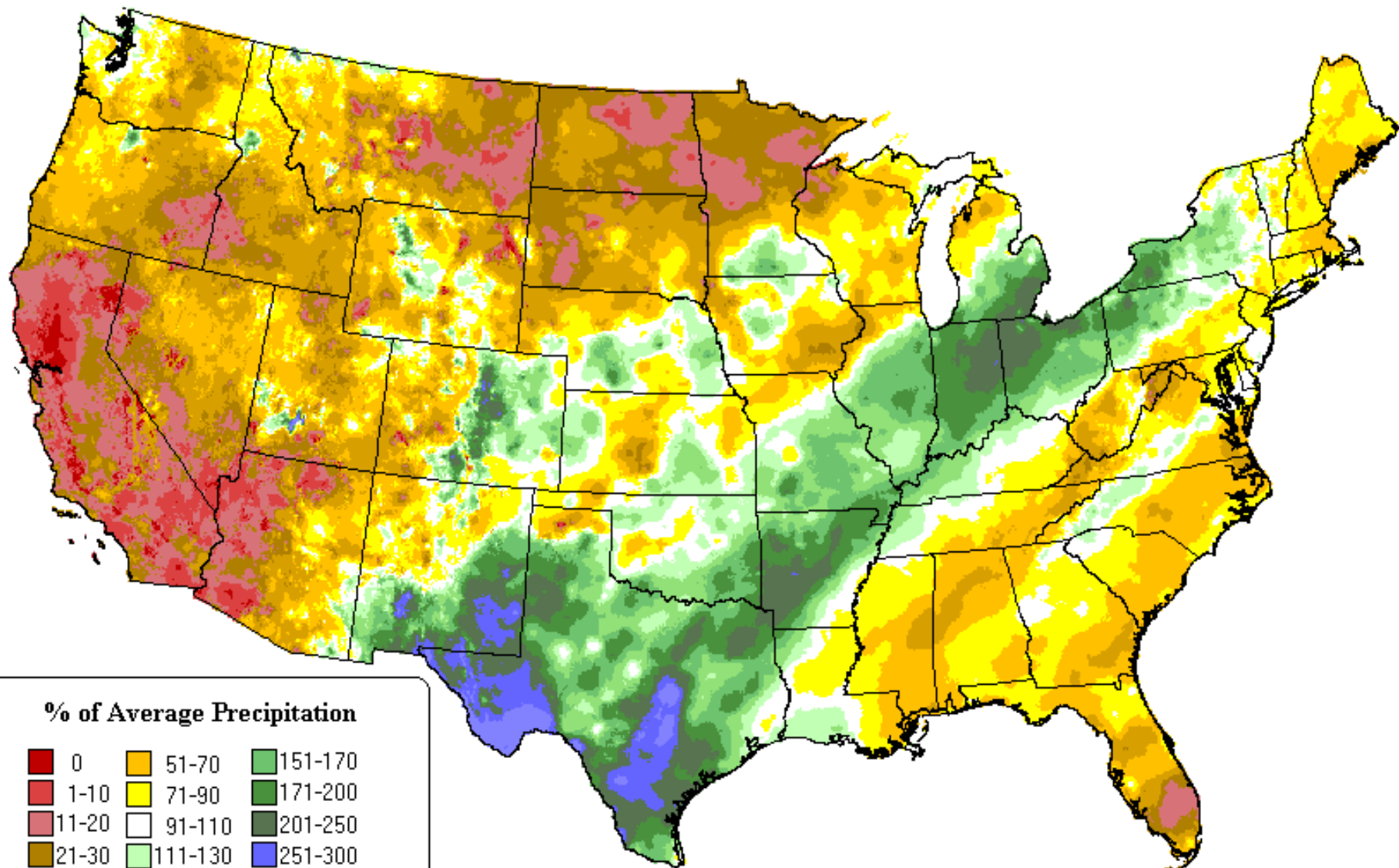
Provisional Data



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<http://www.ocs.oregonstate.edu/prism> - Map created Feb 09 2007

1-month Percent of Average Precipitation: Jan 2007

Provisional Data



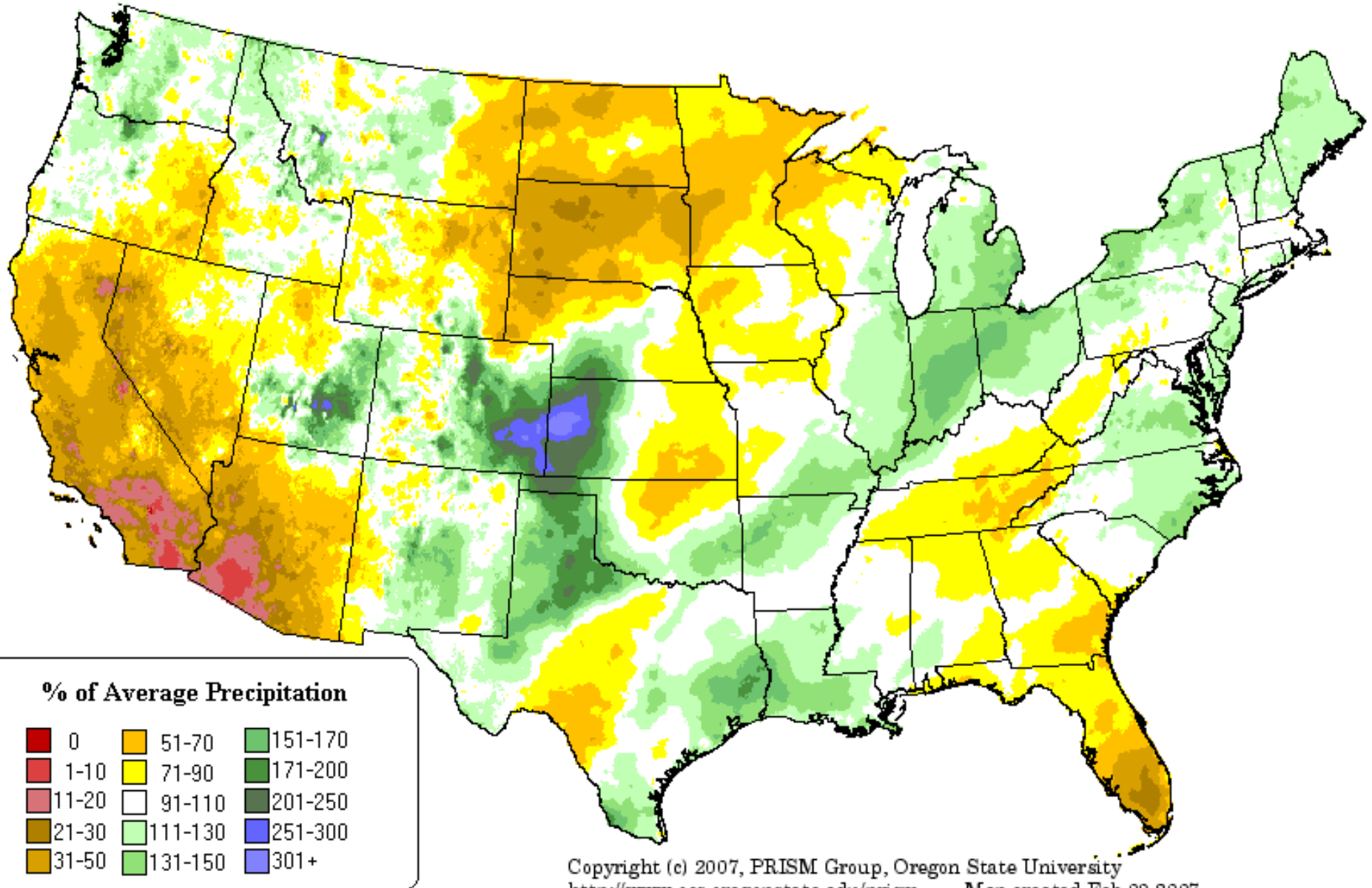
% of Average Precipitation

0	51-70	151-170
1-10	71-90	171-200
11-20	91-110	201-250
21-30	111-130	251-300
31-50	131-150	301+

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<http://www.ocs.oregonstate.edu/prism> - Map created Feb 09 2007

4-month Percent of Average Precipitation: Jan 2007

Provisional Data



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<http://www.ocs.oregonstate.edu/prism> - Map created Feb 09 2007

Colorado Snowcover

As of January 7, 2007

Wyoming

Colorado

Nebraska

— Denver

Kansas

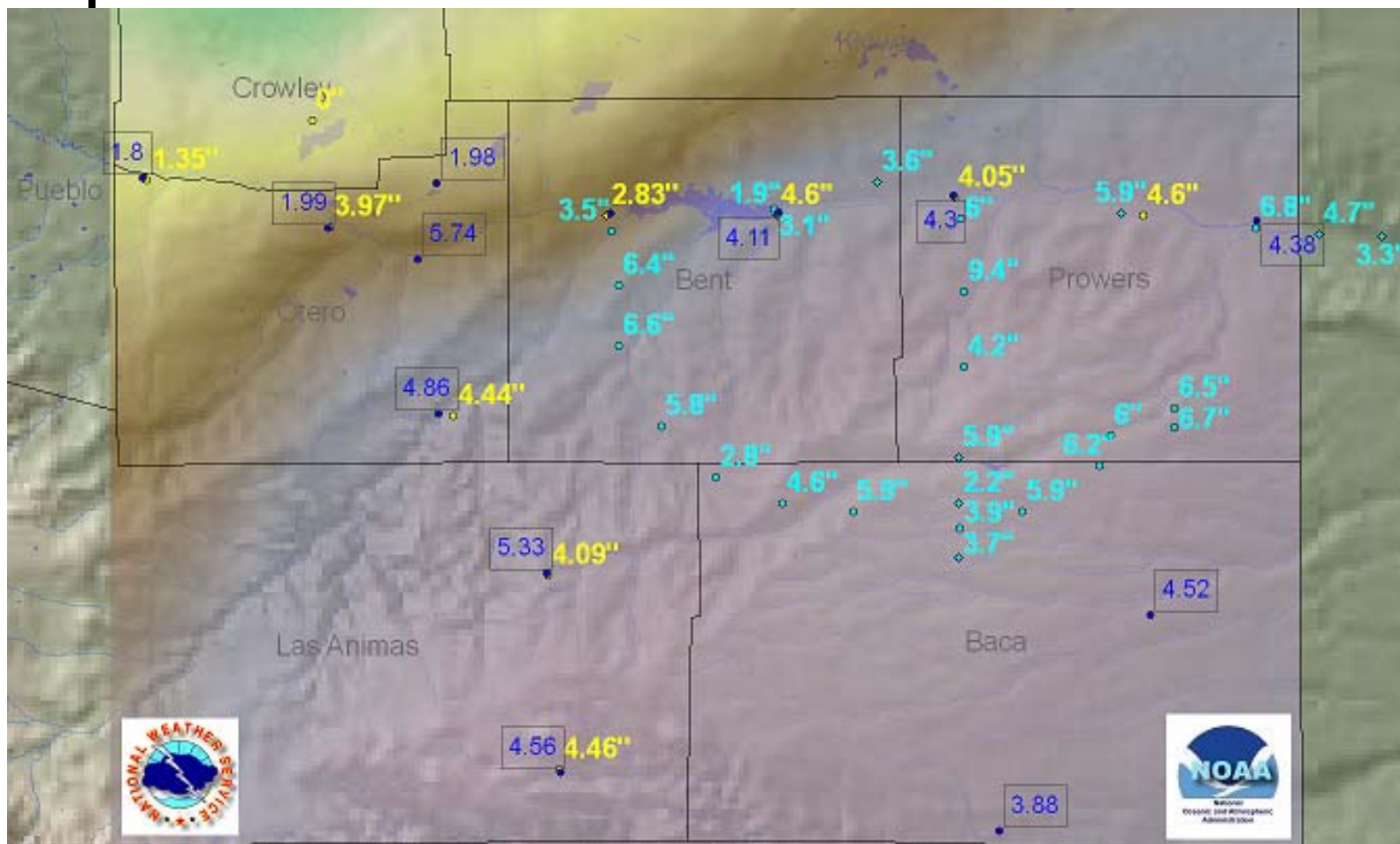
Arkansas River



Colorado Snowcover

As of February 15, 2007

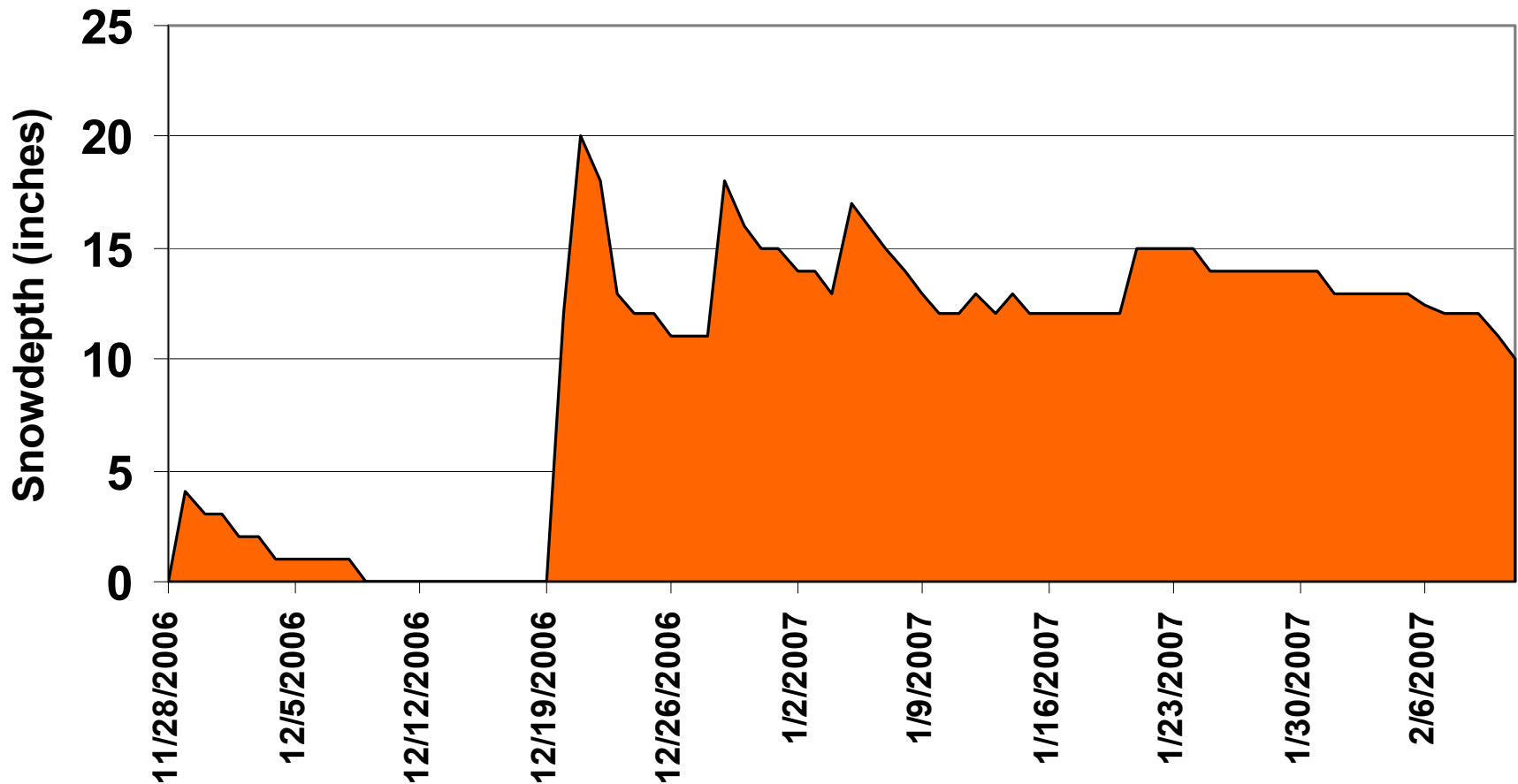
Water in the Snowpack during early February and the Total Precipitation for the months of December and January



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

Greeley Daily Total Snowdepth

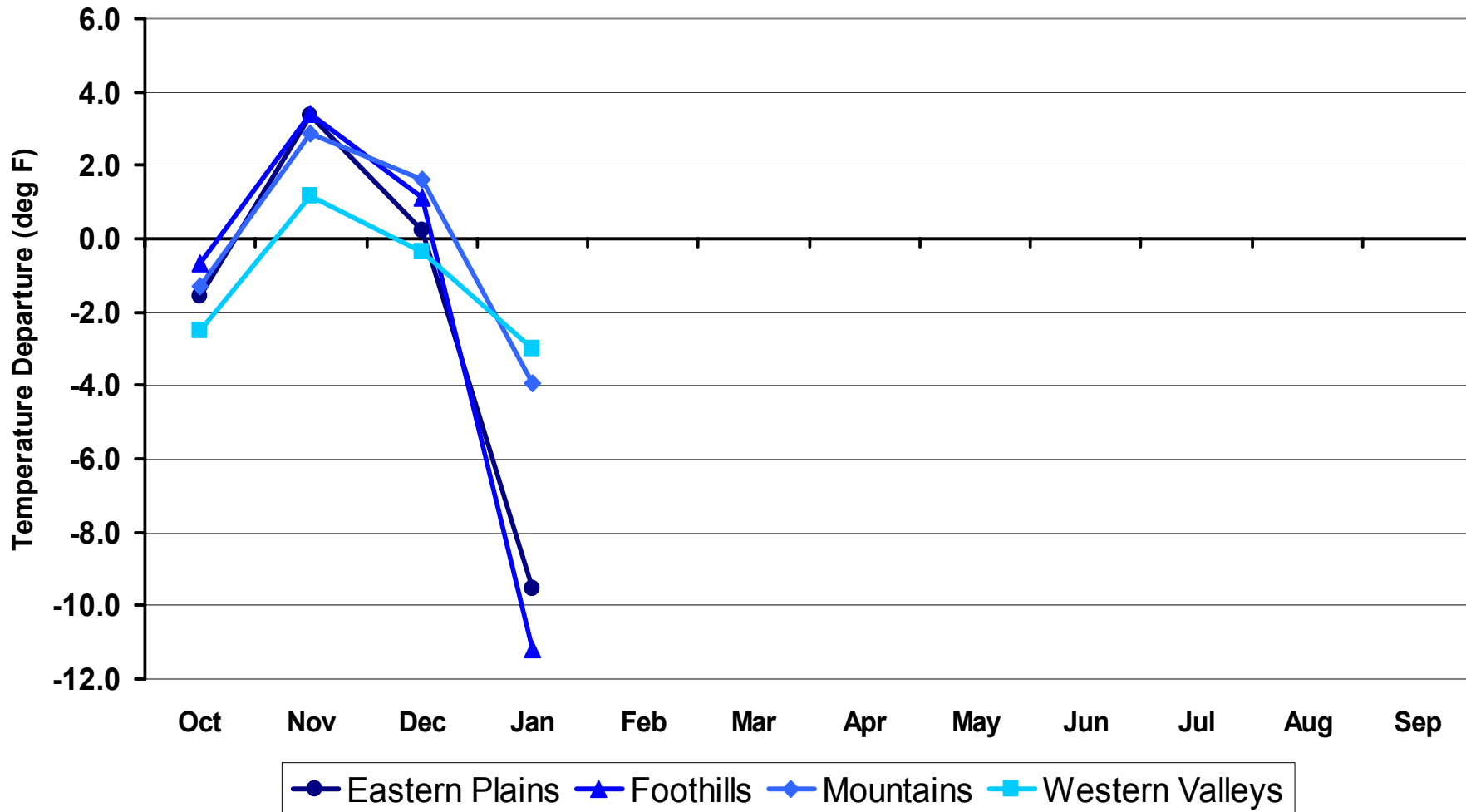
Greeley Snowdepth
from November 28, 2006 - February 11, 2007



Water Year 2007 Temperature Departures



Temperature Departures Water Year 2007

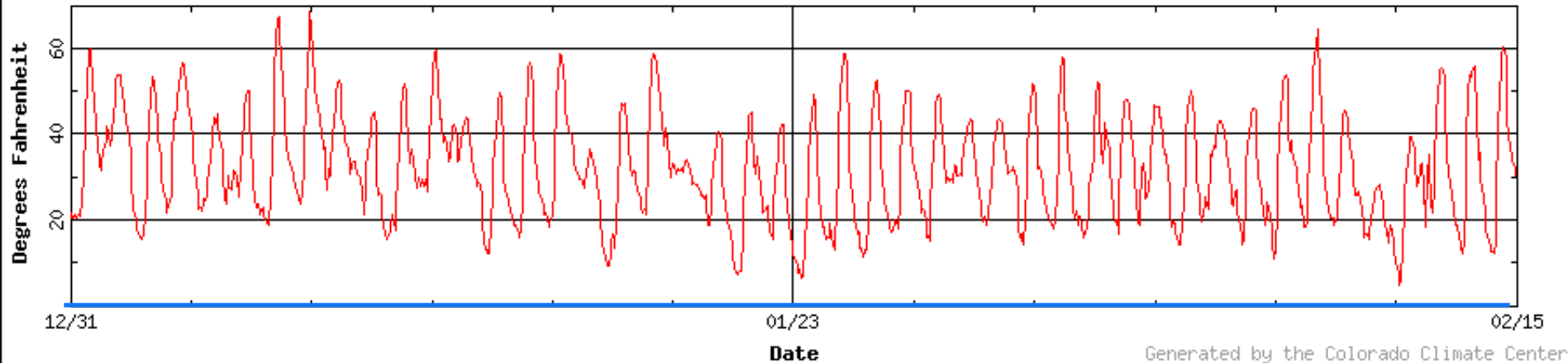




Kersey CoAgMet Temperatures

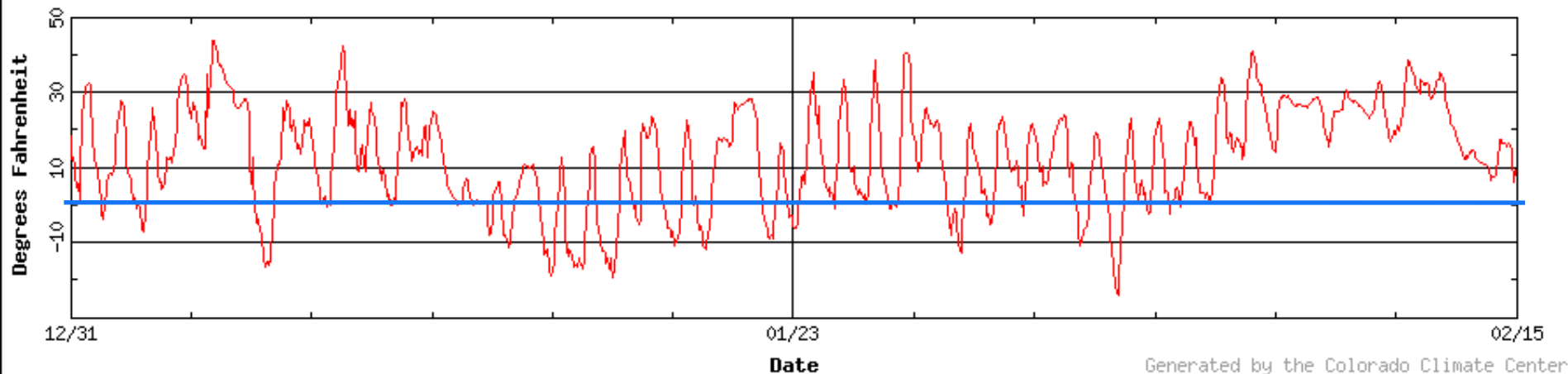
12/31/05 – 02/15/06

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

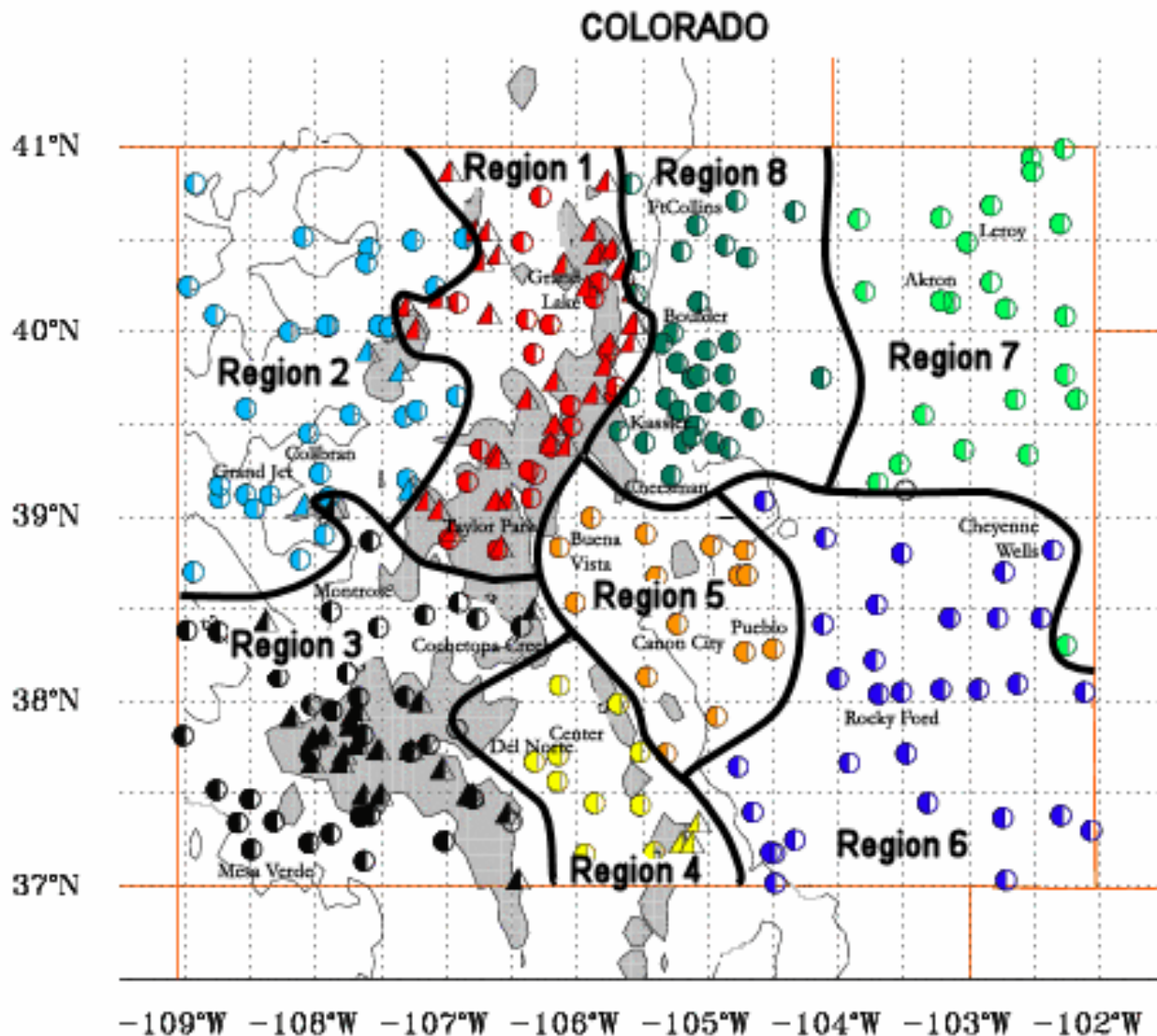


12/31/06 – 02/15/07

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

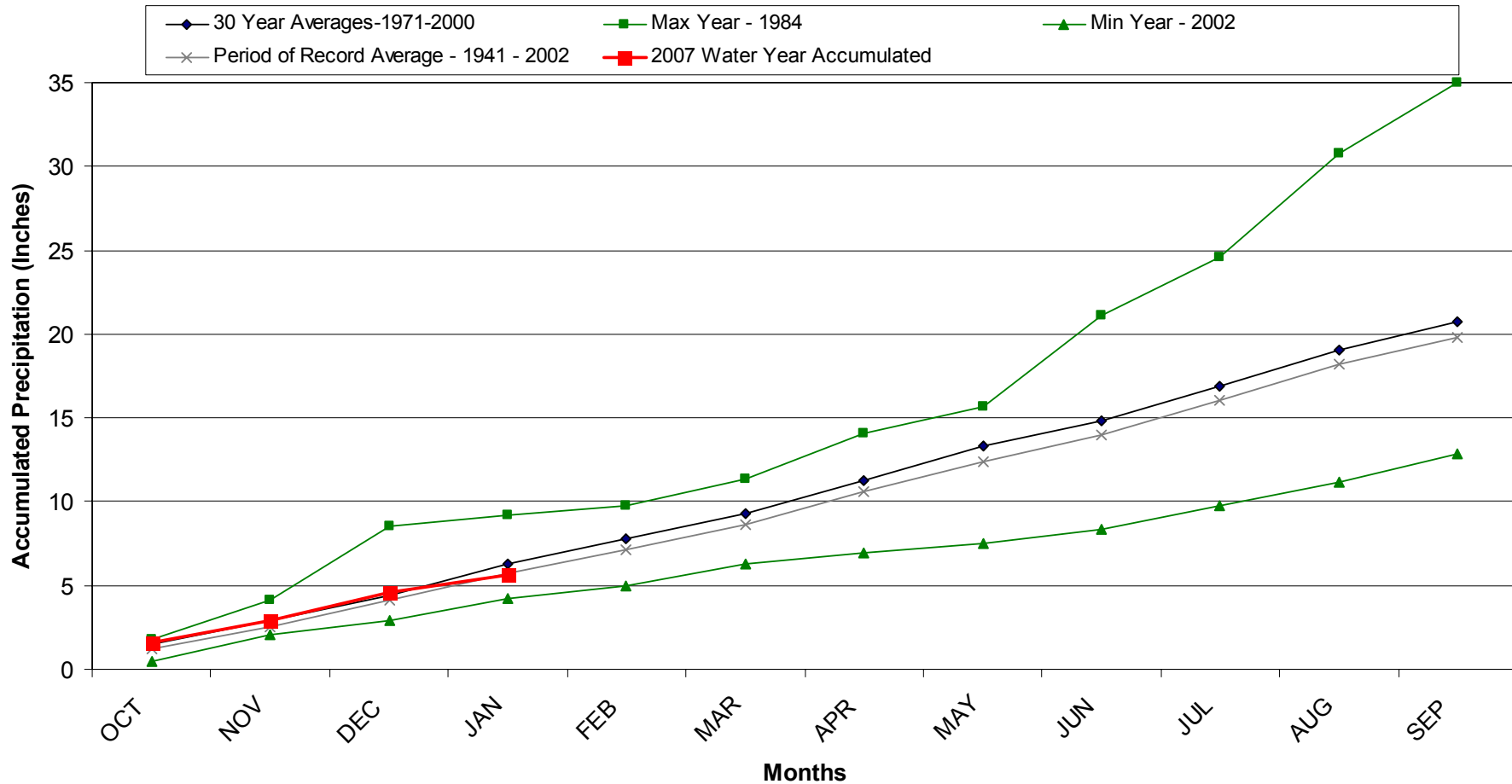


Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO



Division 1- Grand Lake 1NW

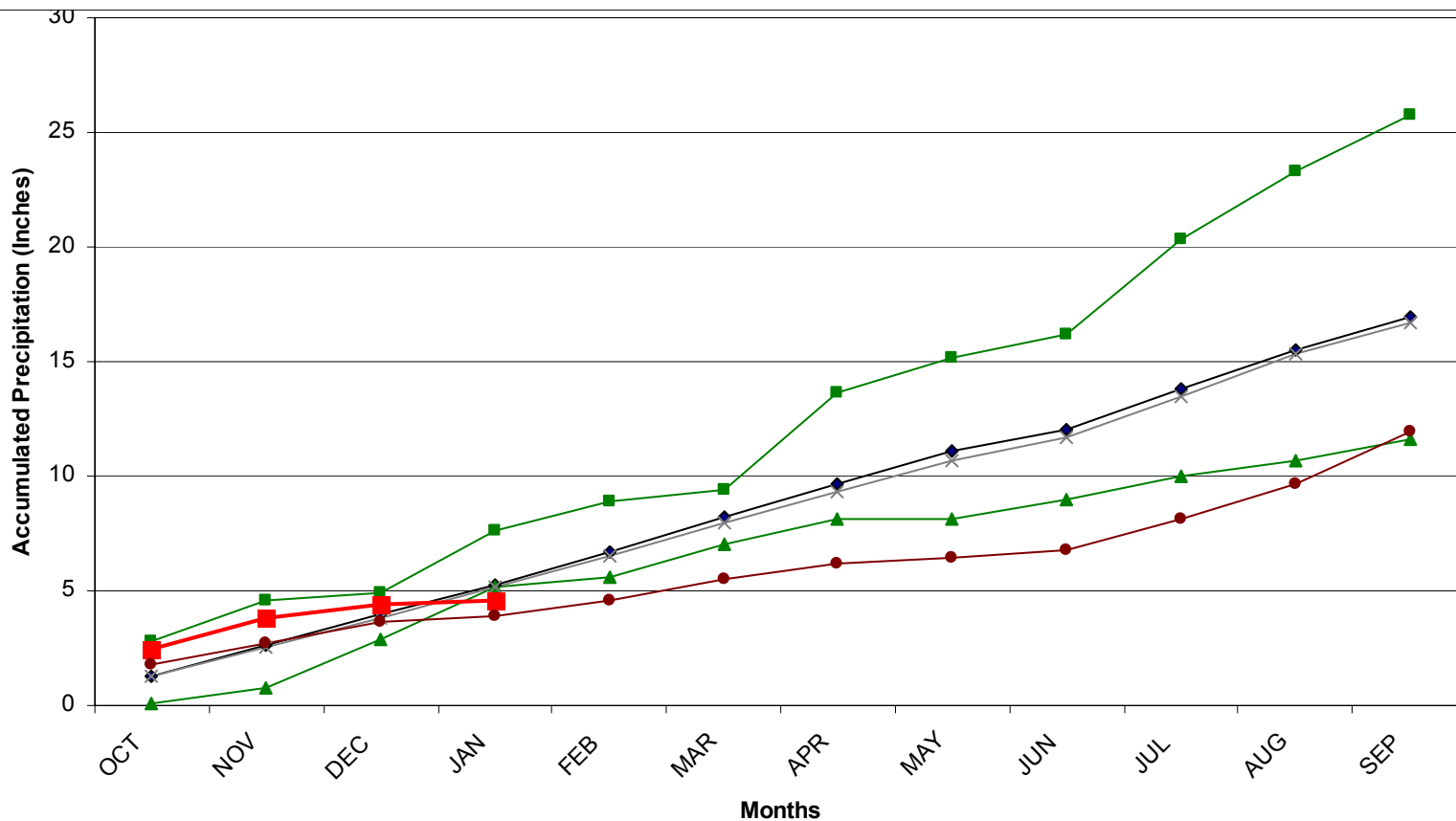
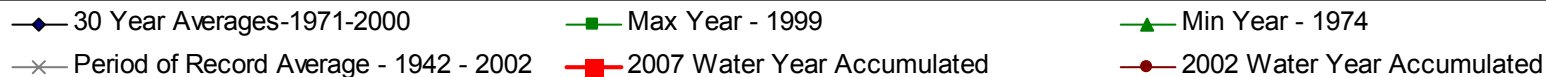
Grand Lake 1 NW 2007 Water Year





Division 1 – Taylor Park

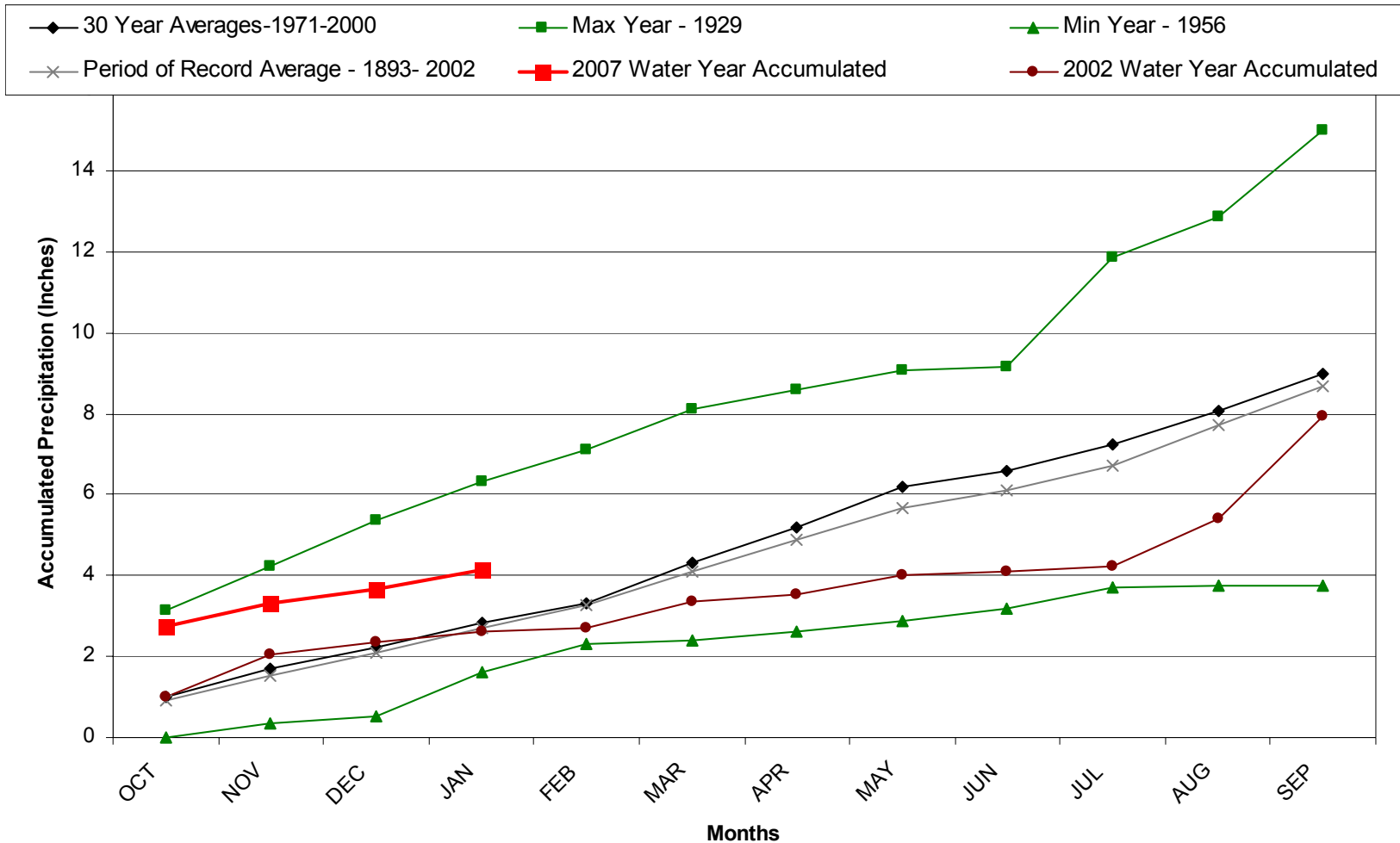
Taylor Park 2007 Water Year





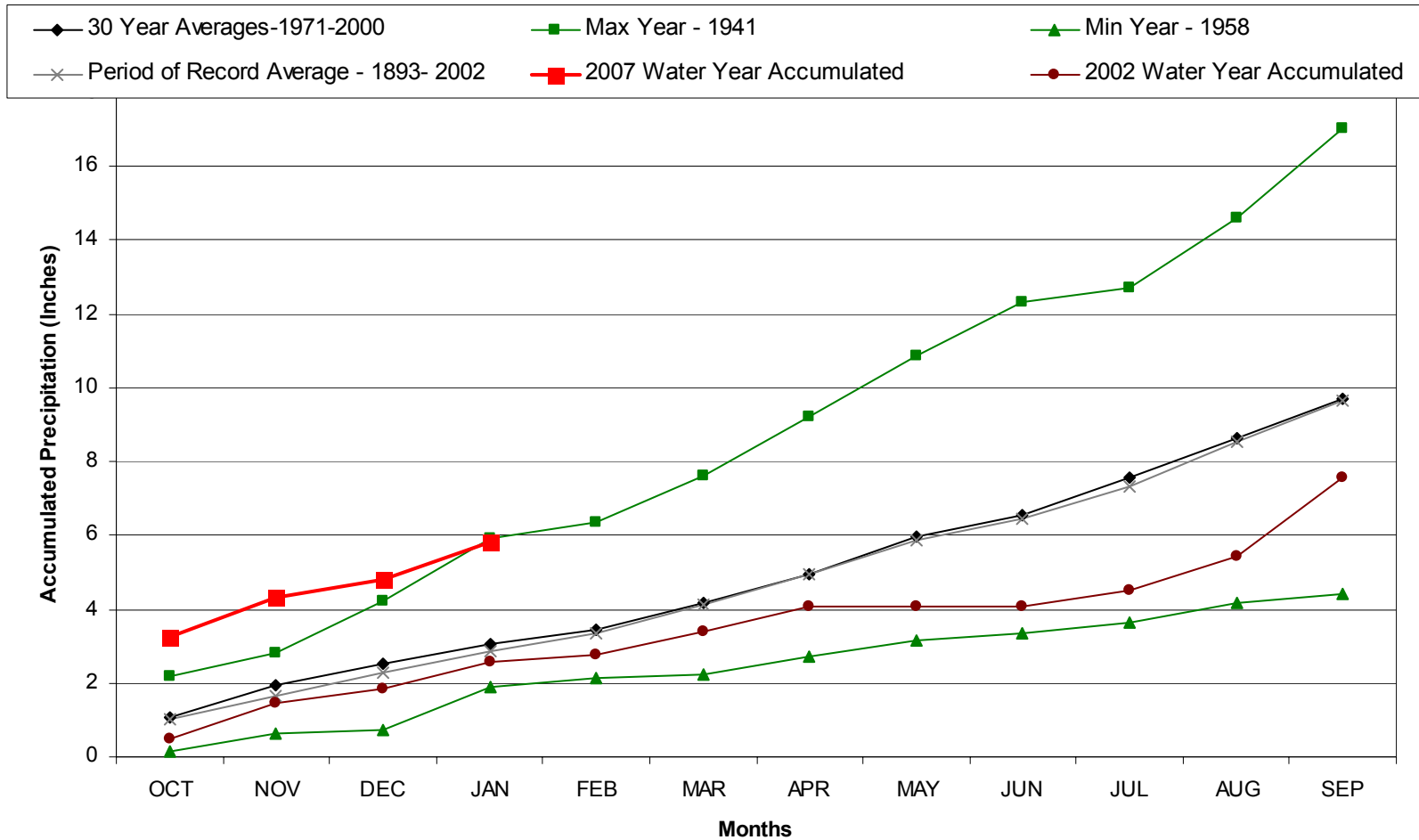
Division 2 – Grand Junction

Grand Junction WSFO 2007 Water Year



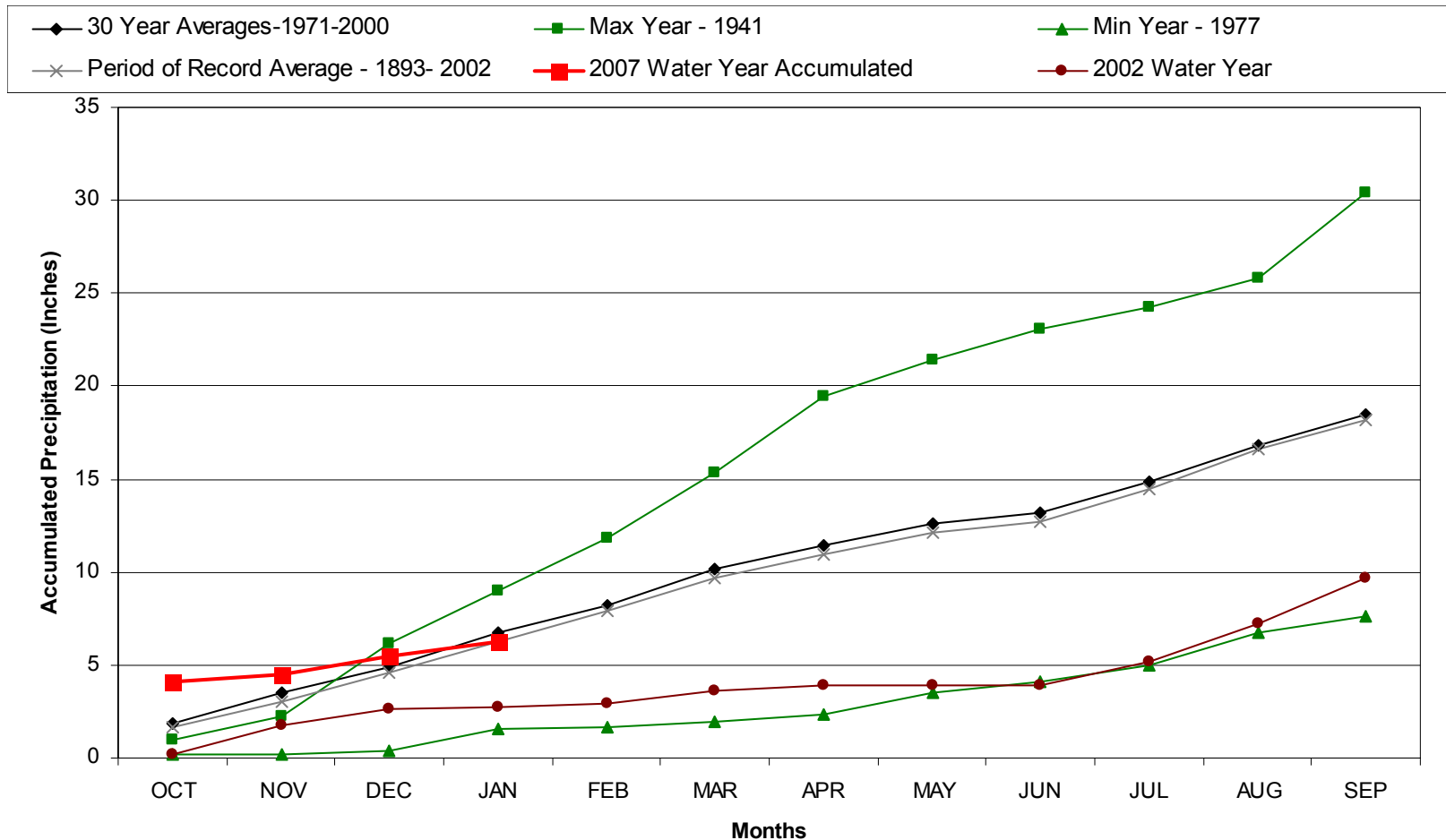
Division 3 – Montrose

Montrose #2 2007 Water Year



Division 3 – Mesa Verde

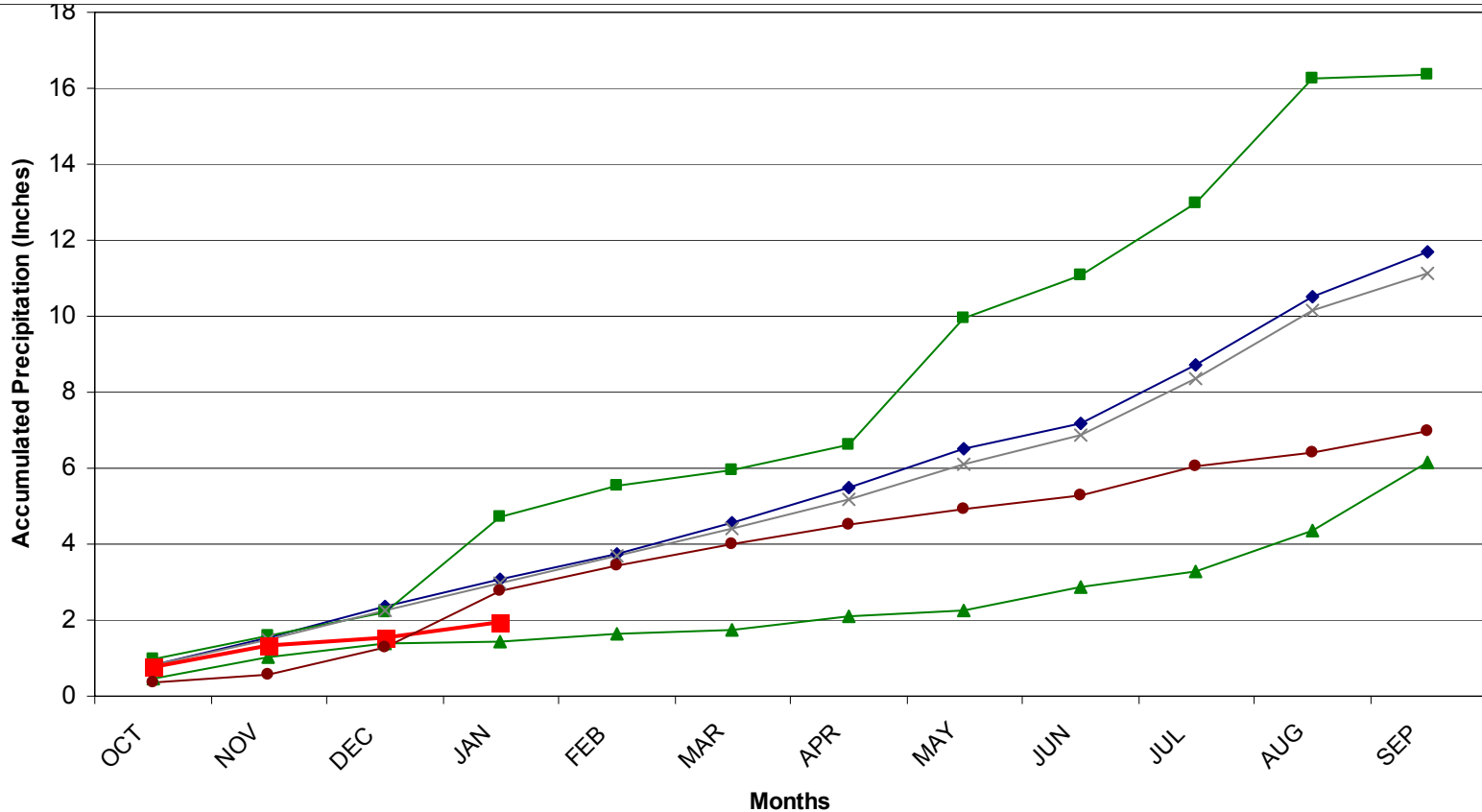
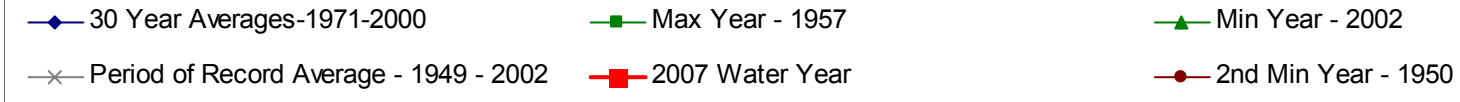
Mesa Verde NP 2007 Water Year





Division 3 – Cochetopa Creek

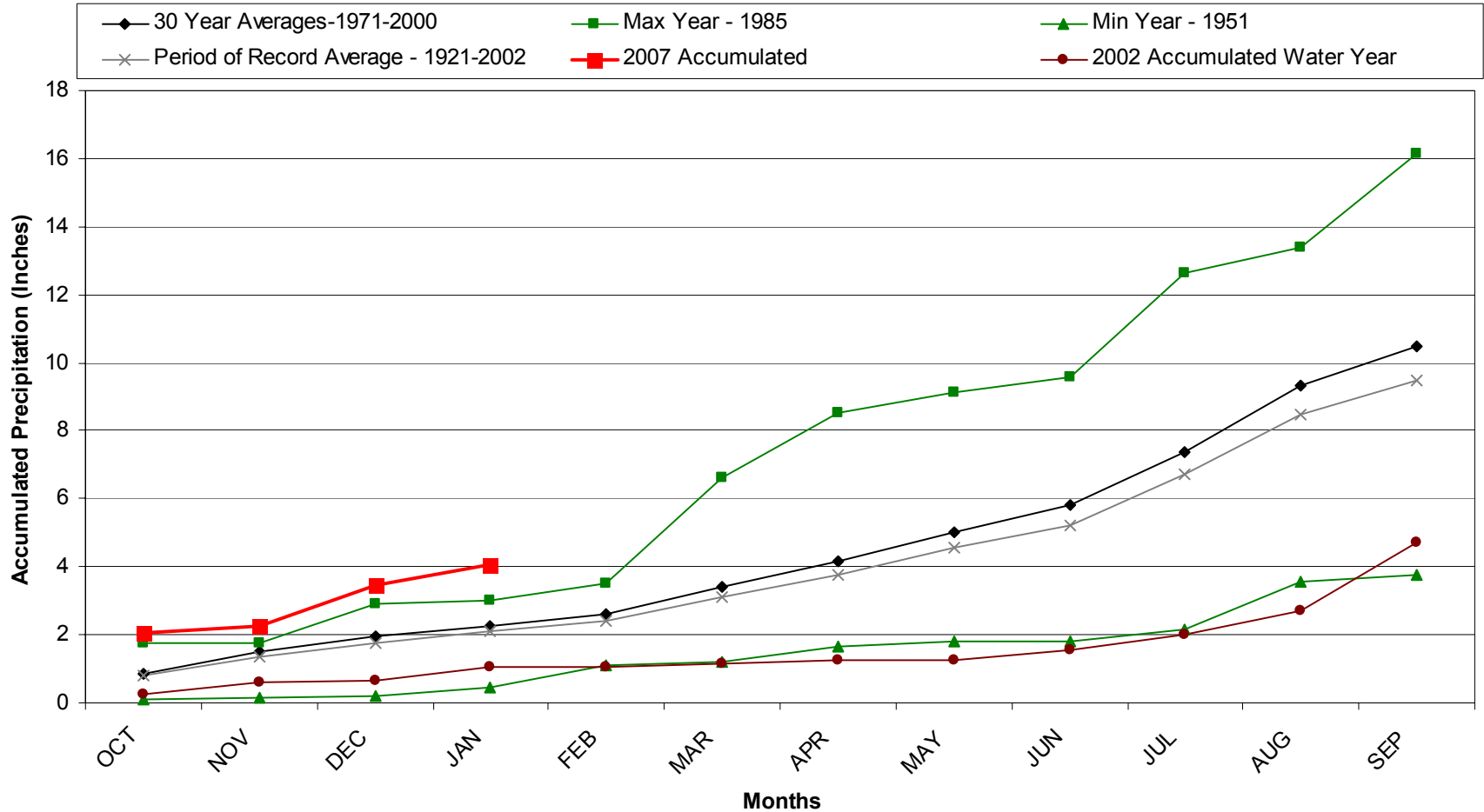
Cochetopa Creek 2007 Water Year





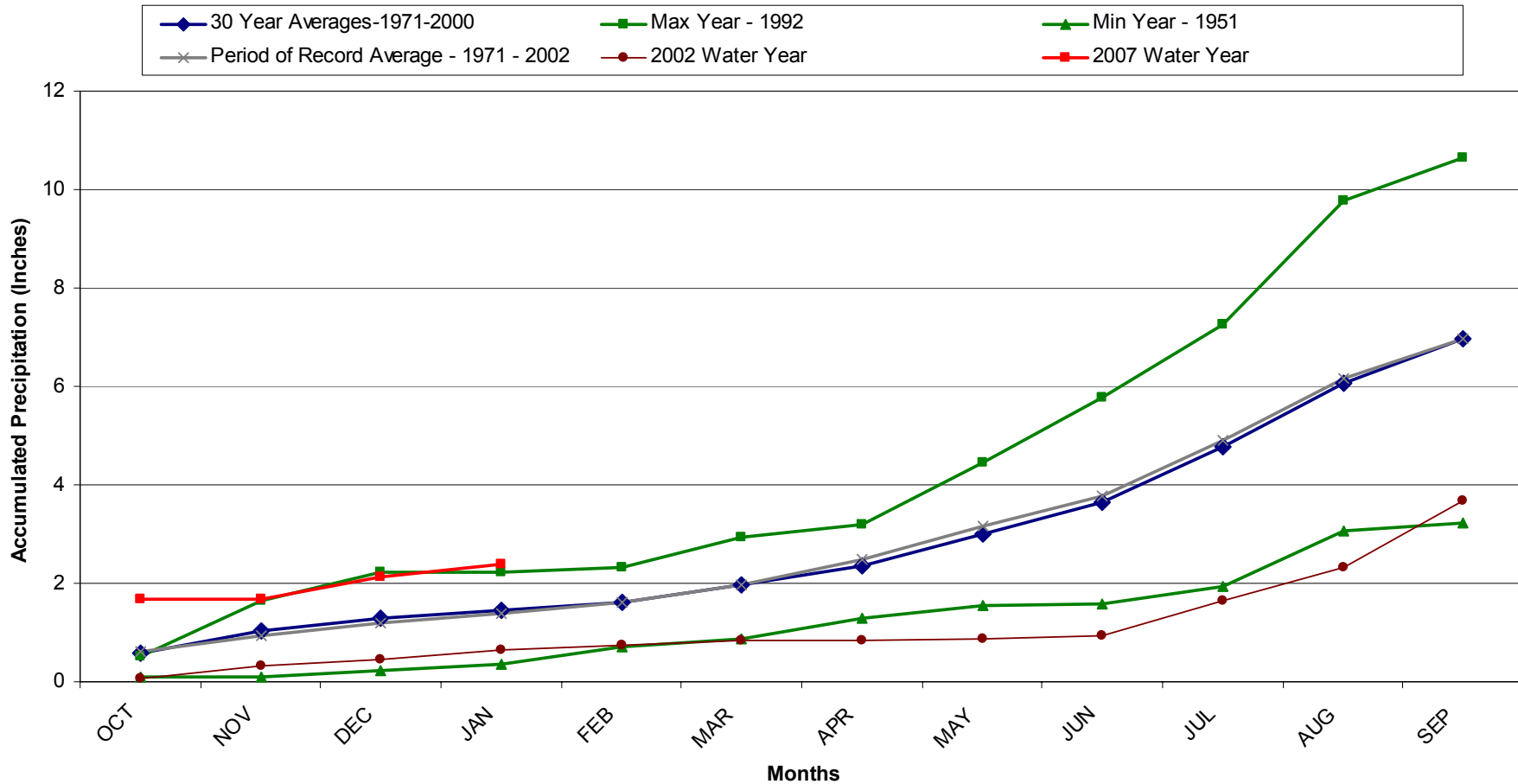
Division 4 – Del Norte

Del Norte 2007 Water Year



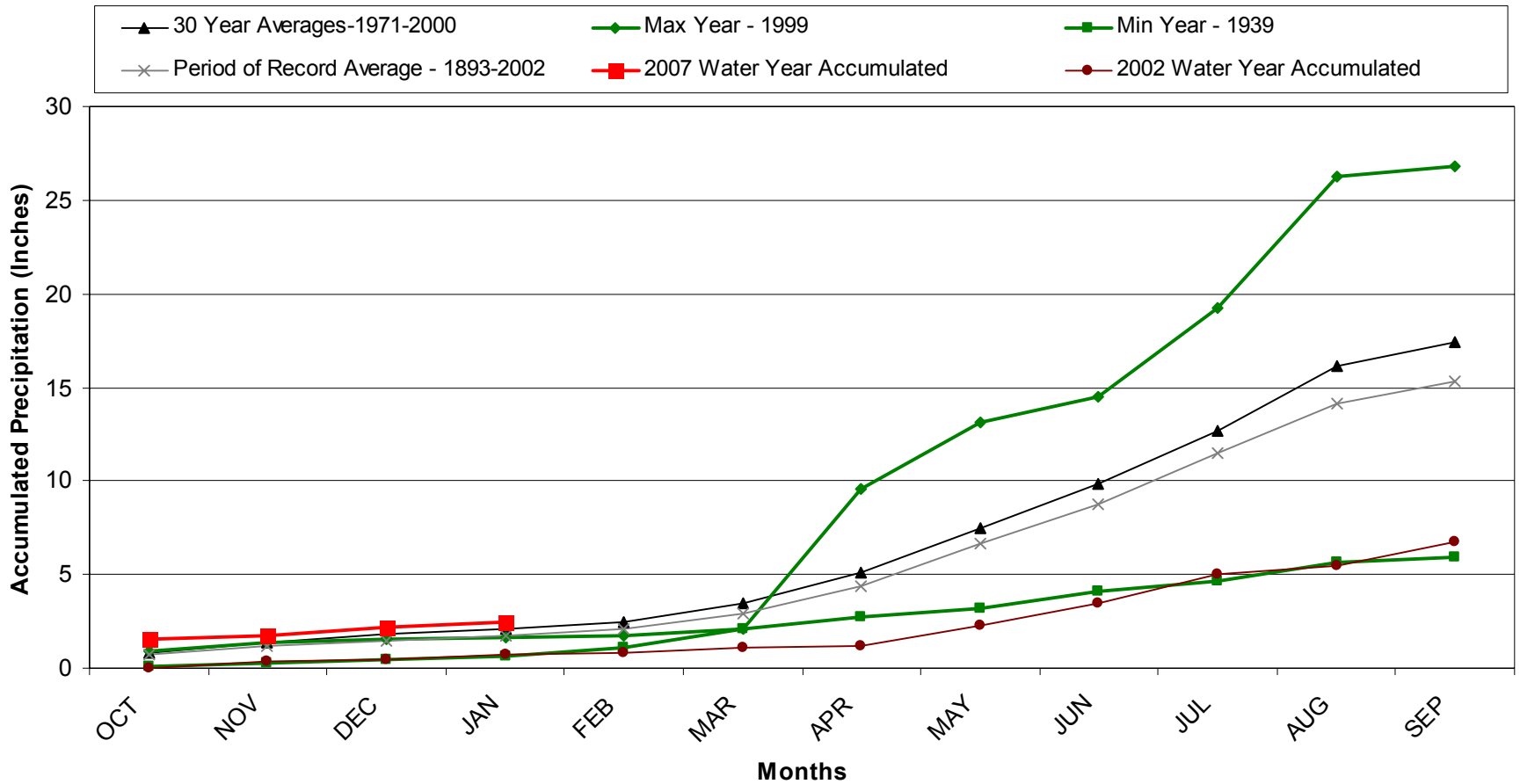
Division 4 - Center

Center 4SSW 2007 Water Year



Division 5 – Colorado Springs

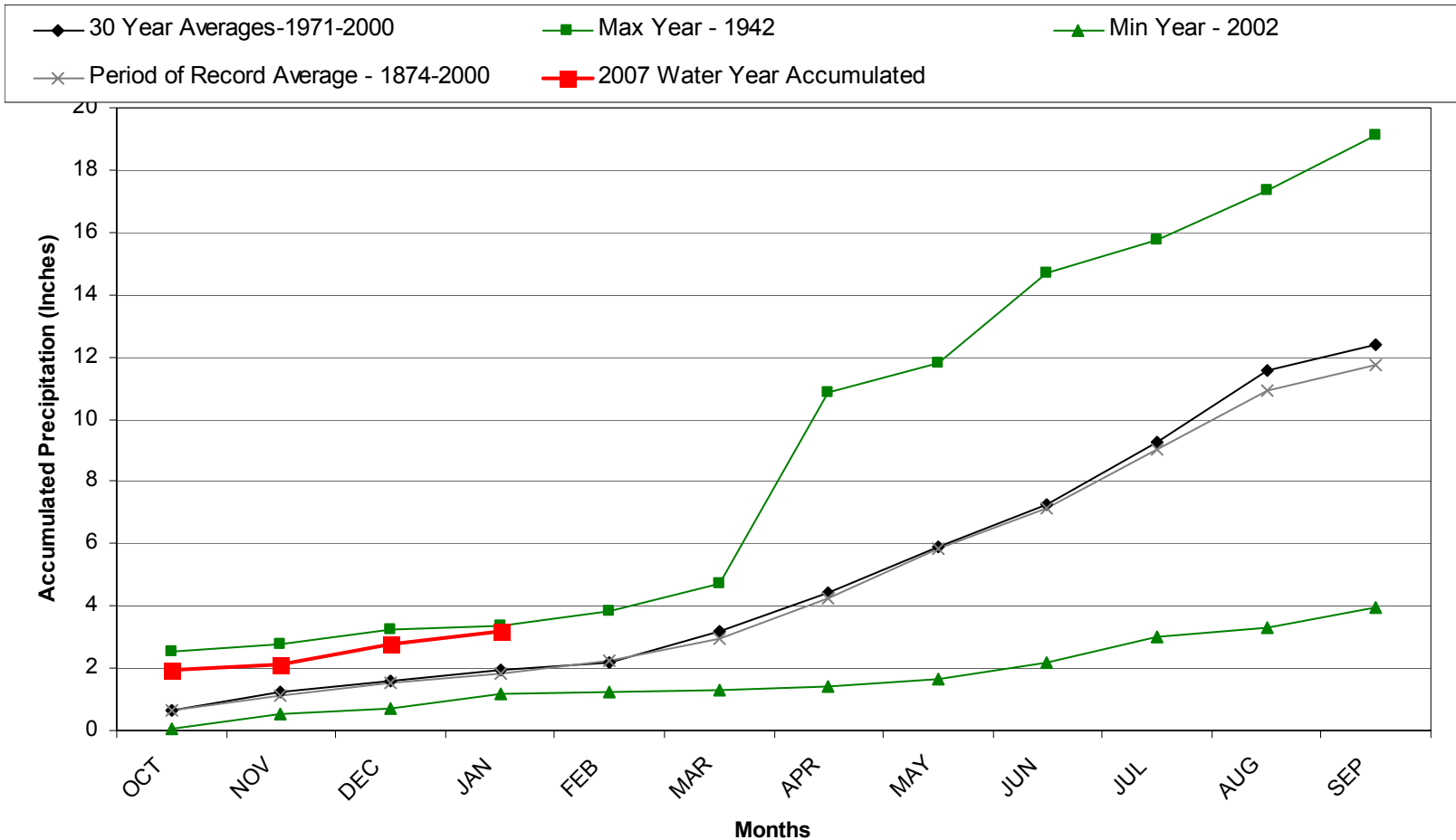
Colorado Springs 2007 Water Year





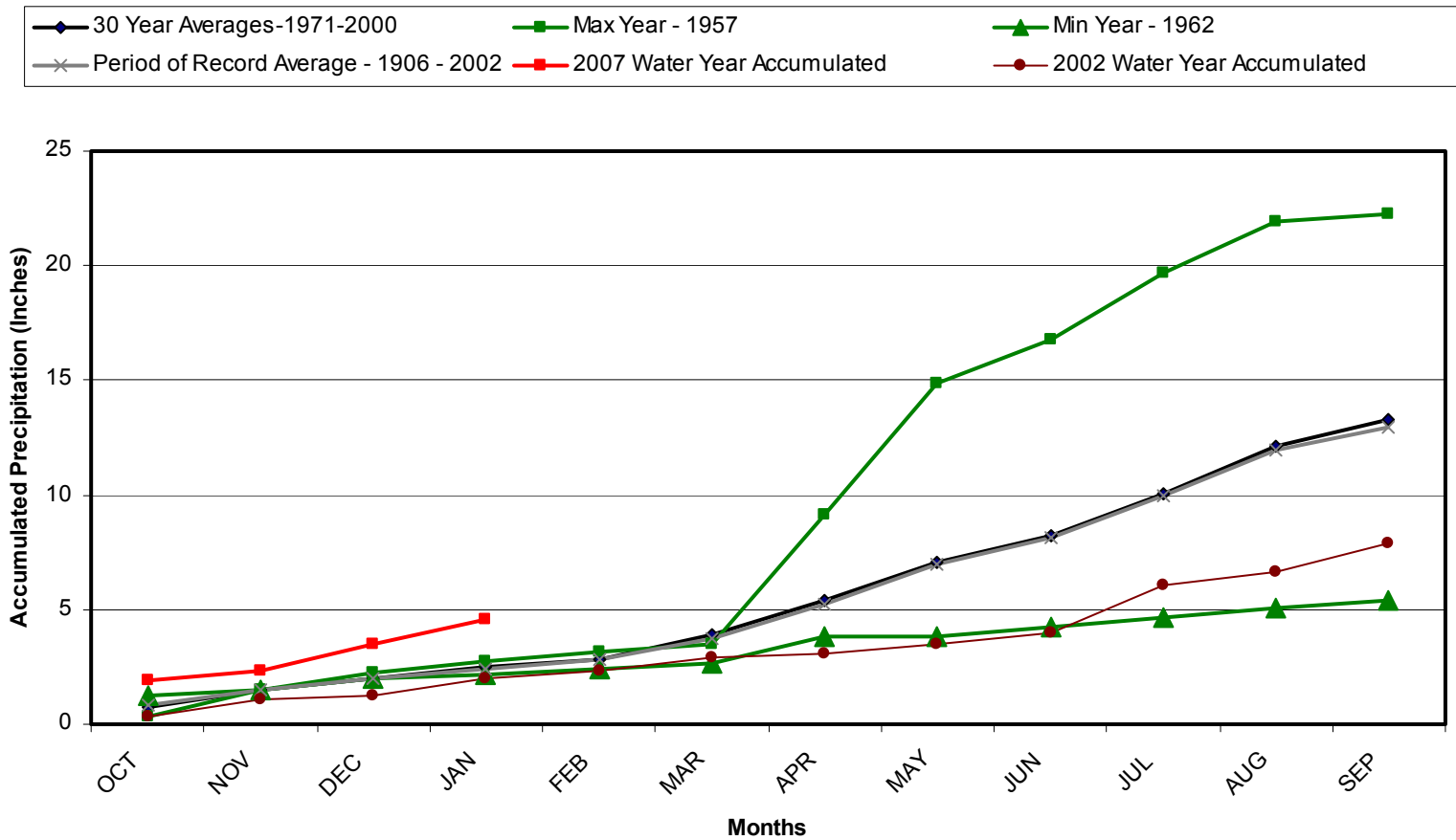
Division 5 – Pueblo

Pueblo WSO 2007 Water Year



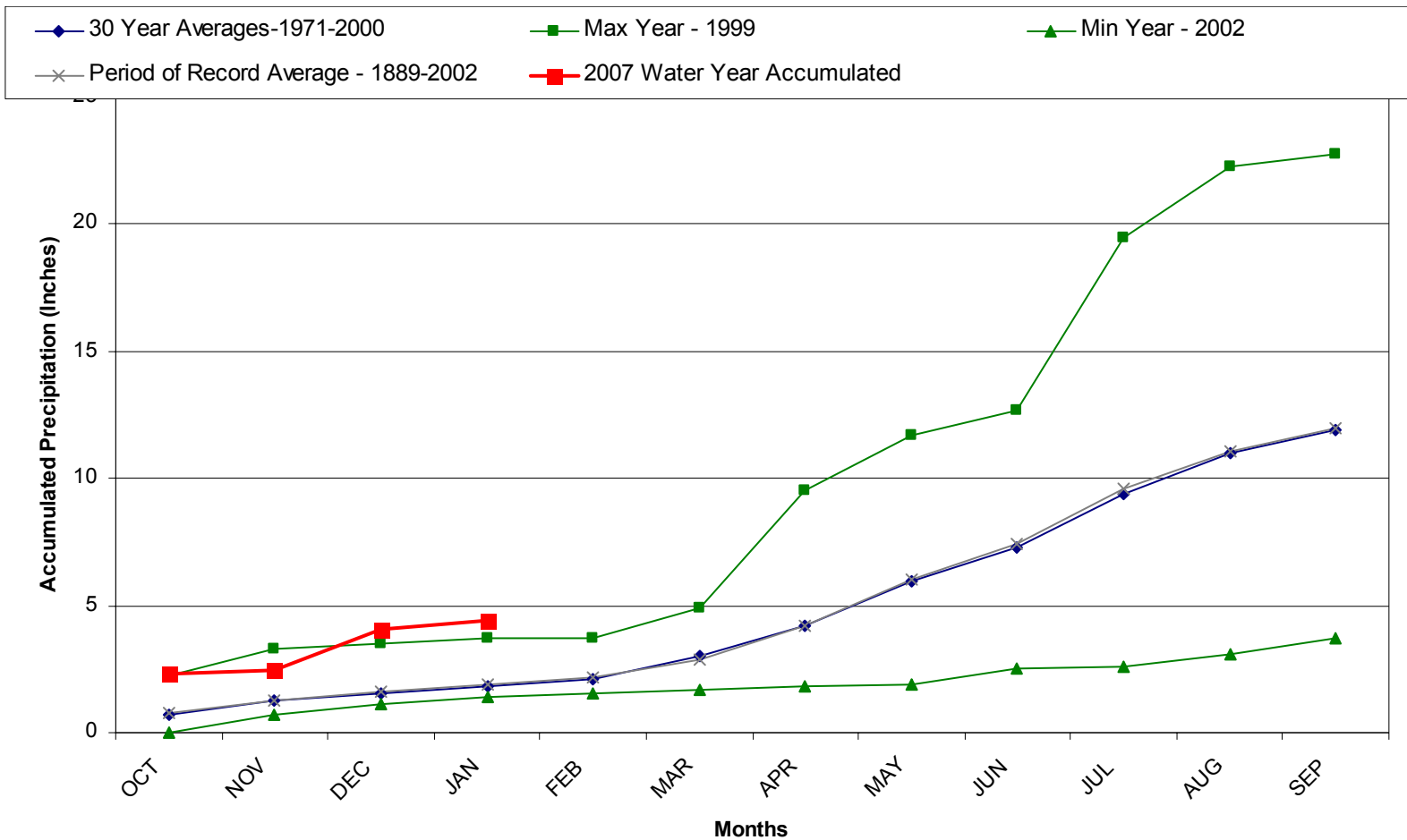
Division 5 – Canon City

Canon City 2007 Water Year



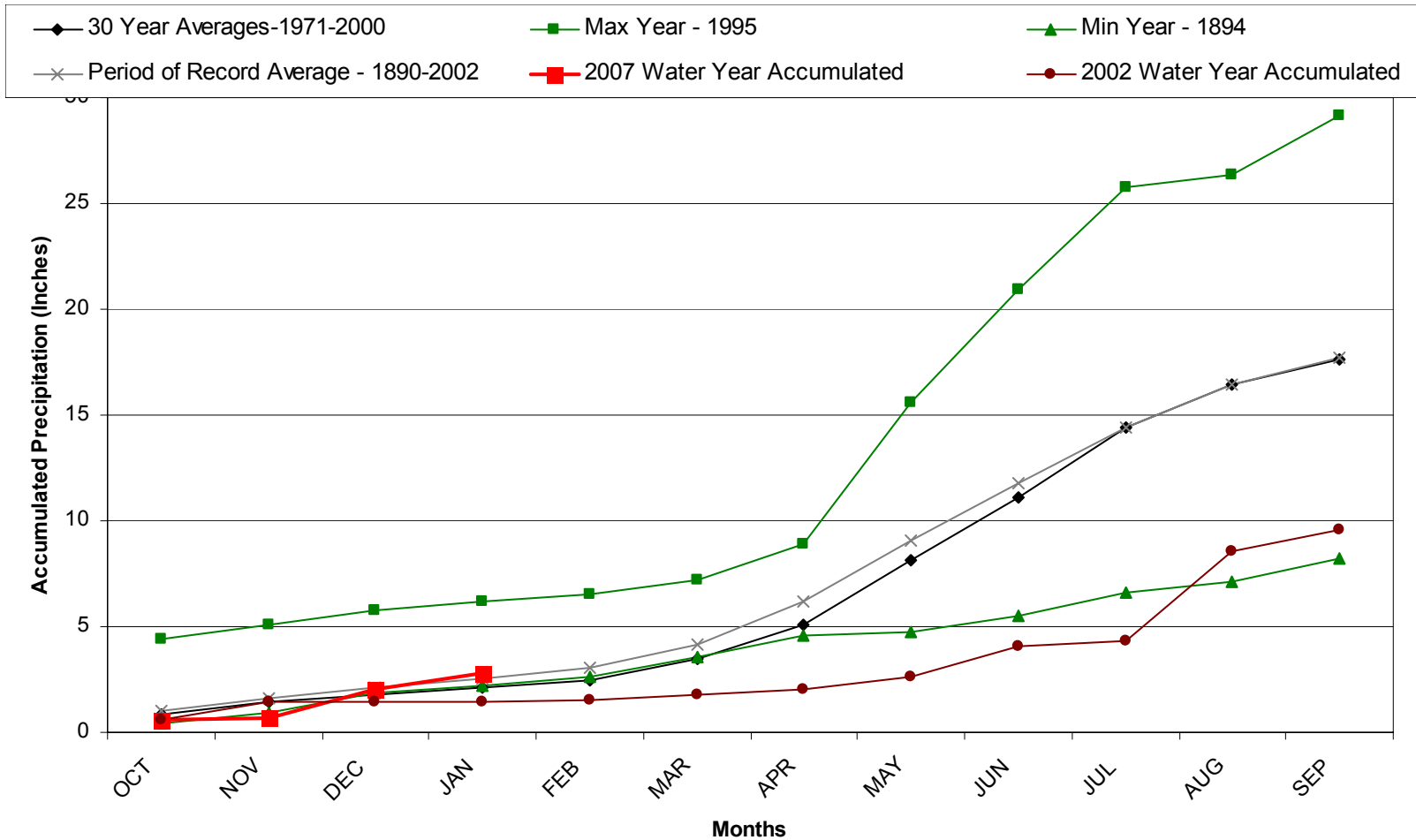
Division 6 – Rocky Ford

Rocky Ford 2007 Water Year



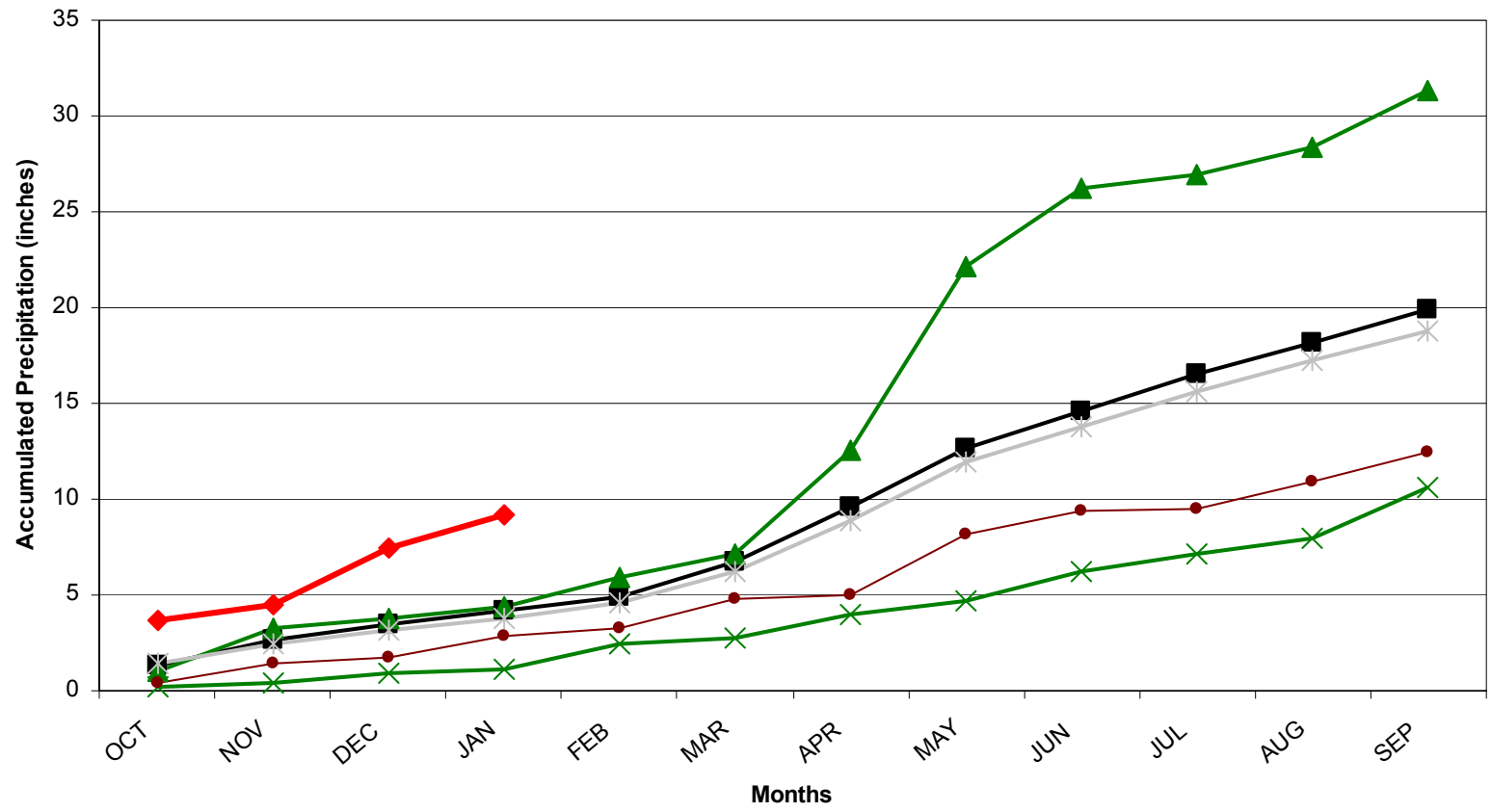
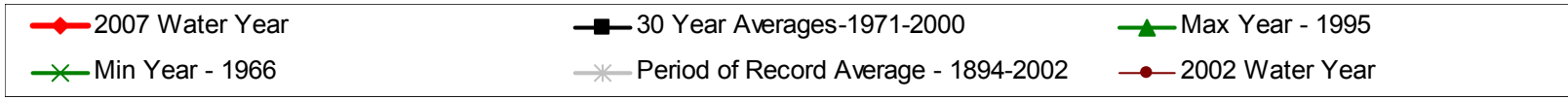
Division 7 - Leroy

Leroy 5SW 2007 Water Year



Division 8 – Boulder

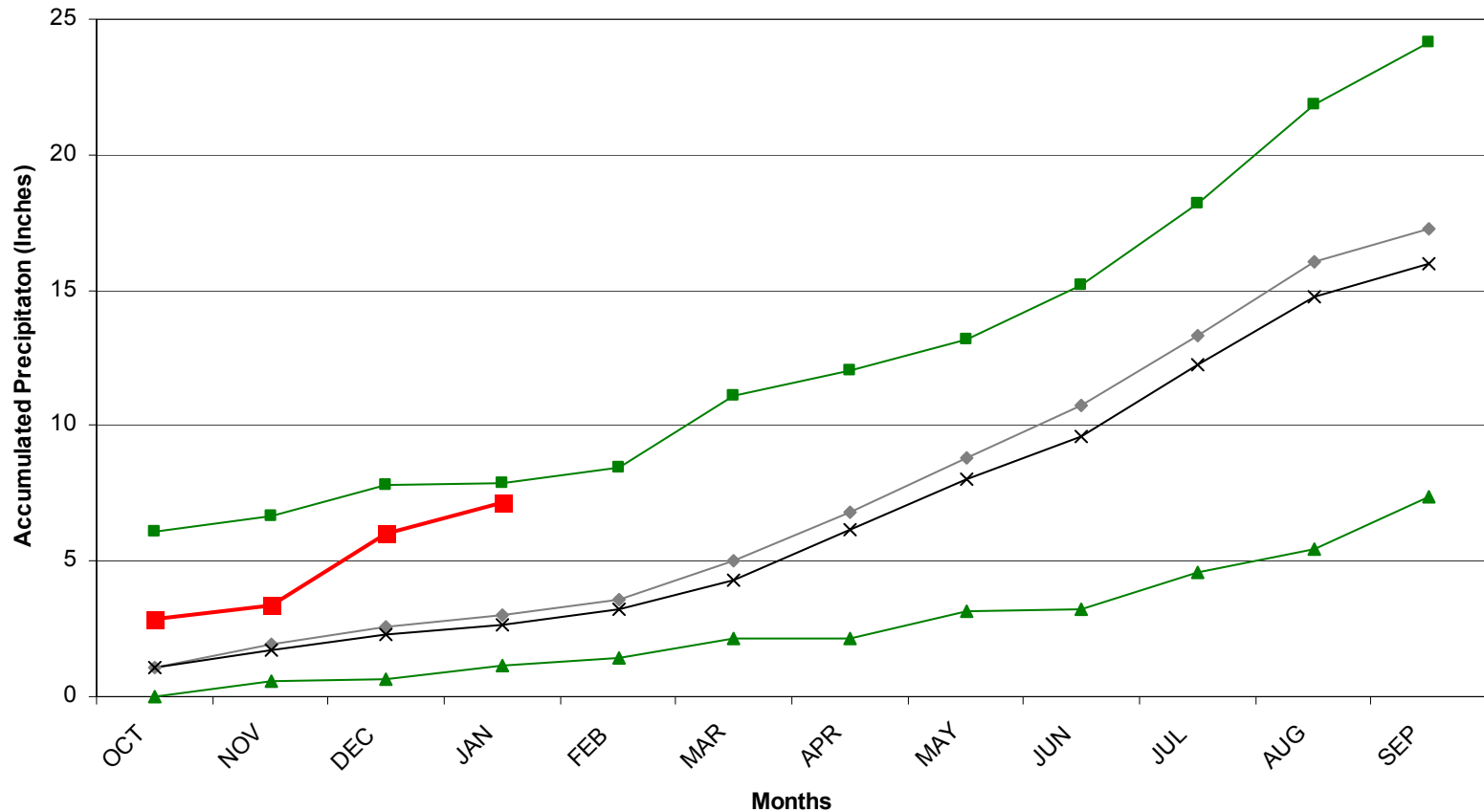
Boulder 2007 Water Year



Division 8 - Cheesman

Cheesman 2007 Water Year

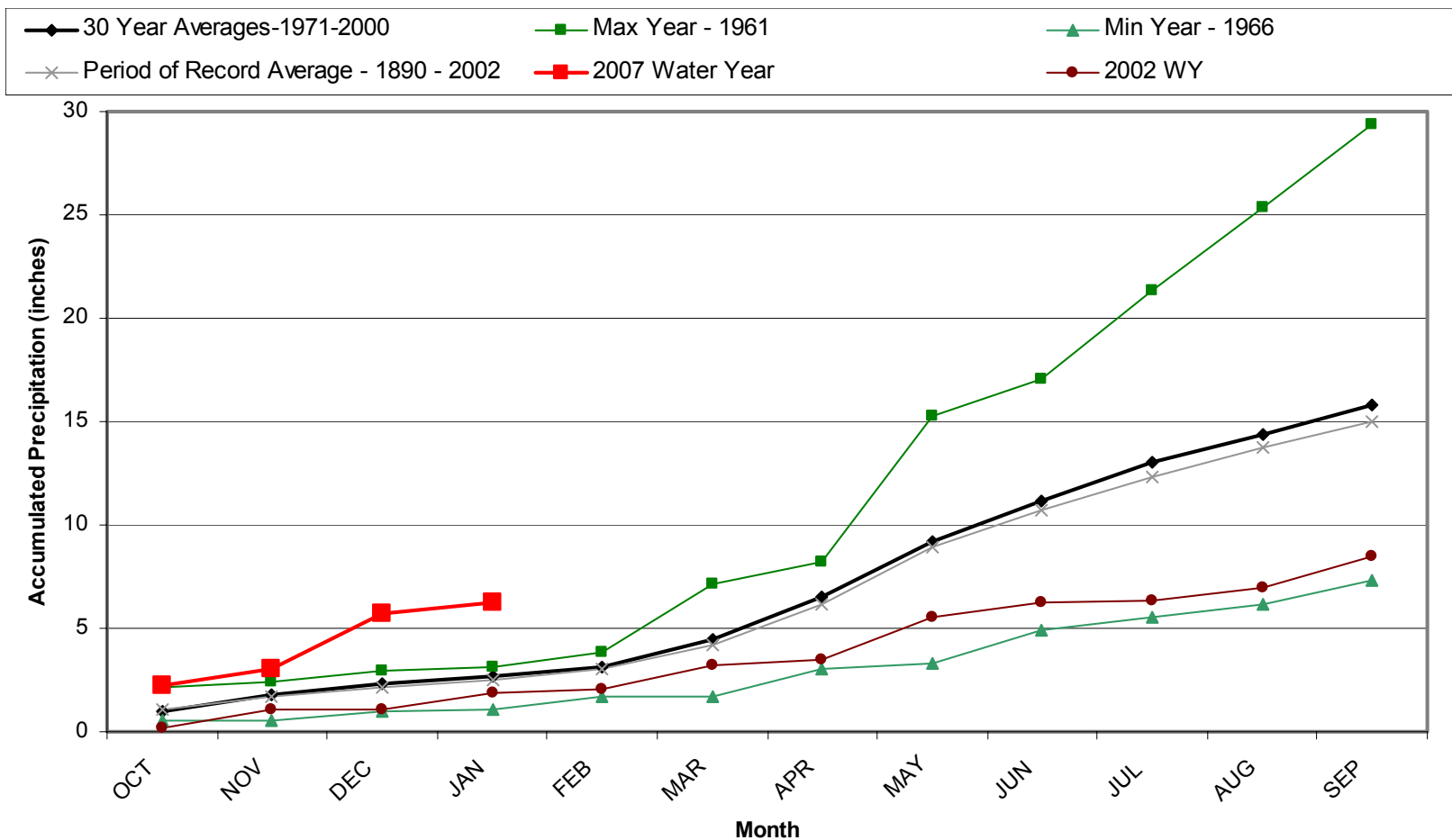
—◆— 30 Year Averages-1971-2000 —■— Max Year - 1970 —▲— Min Year - 2002
—×— Period of Record Average - 1904 - 2002 —■— 2007 Water Year



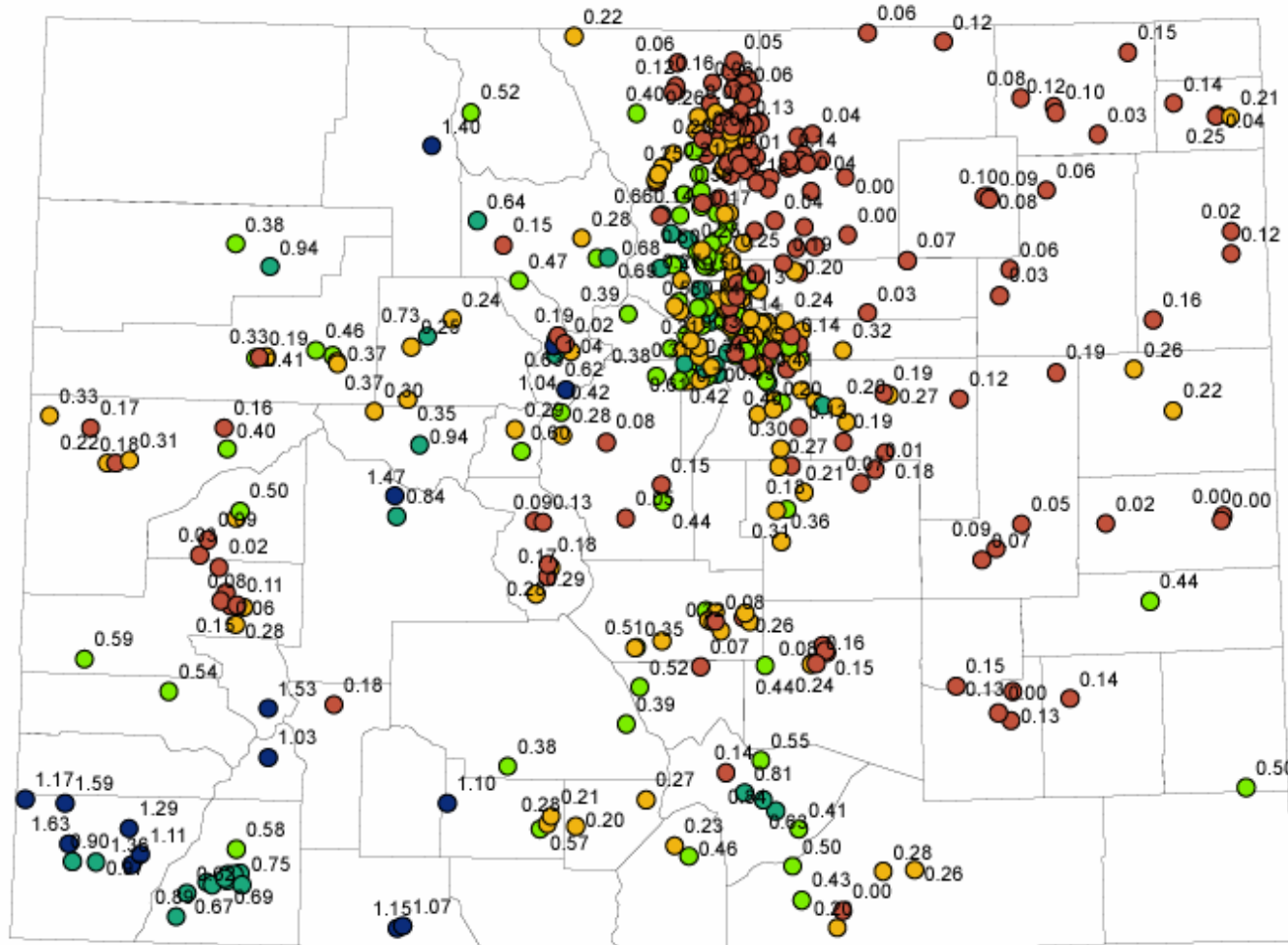


Division 8 – Fort Collins

Fort Collins 2007 Water Year



CoCoRaHS Stations for February 1-15, 2007 precipitation totals

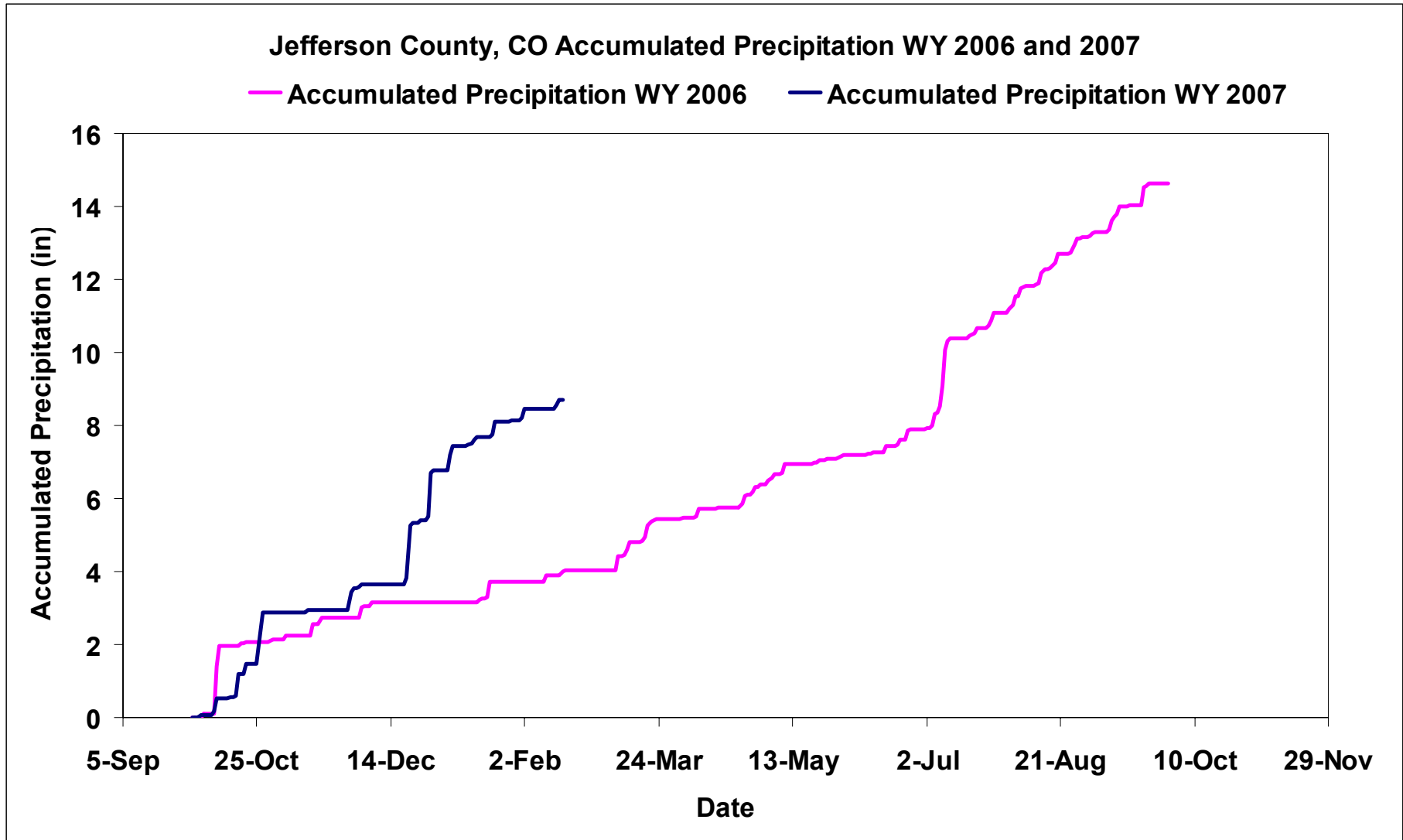


Legend

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

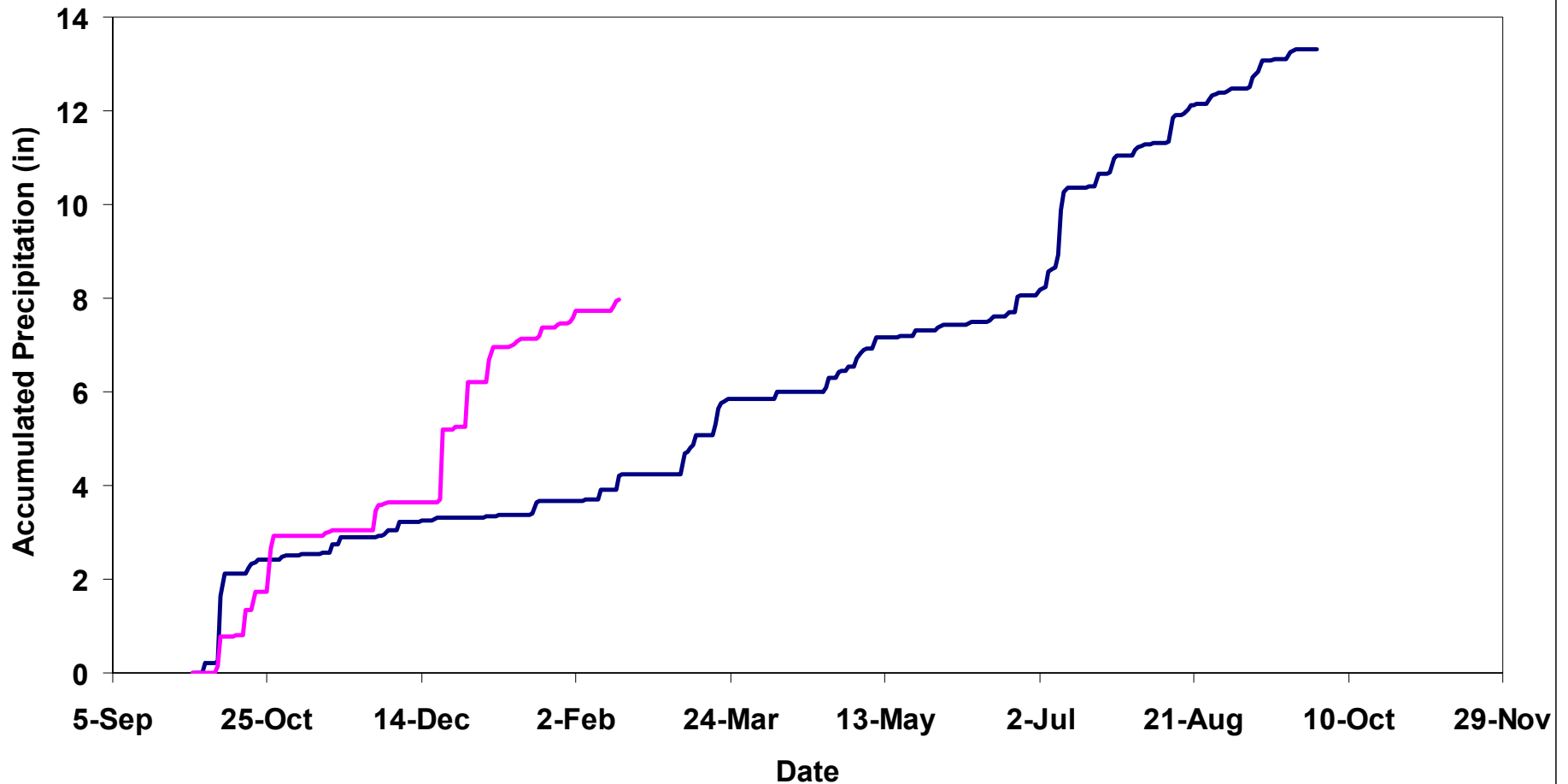


CoCoRaHS Accumulated Precipitation

Boulder, CO Accumulated Precipitation WY 2006 and 2007

— Accumulated Precip WY 2006

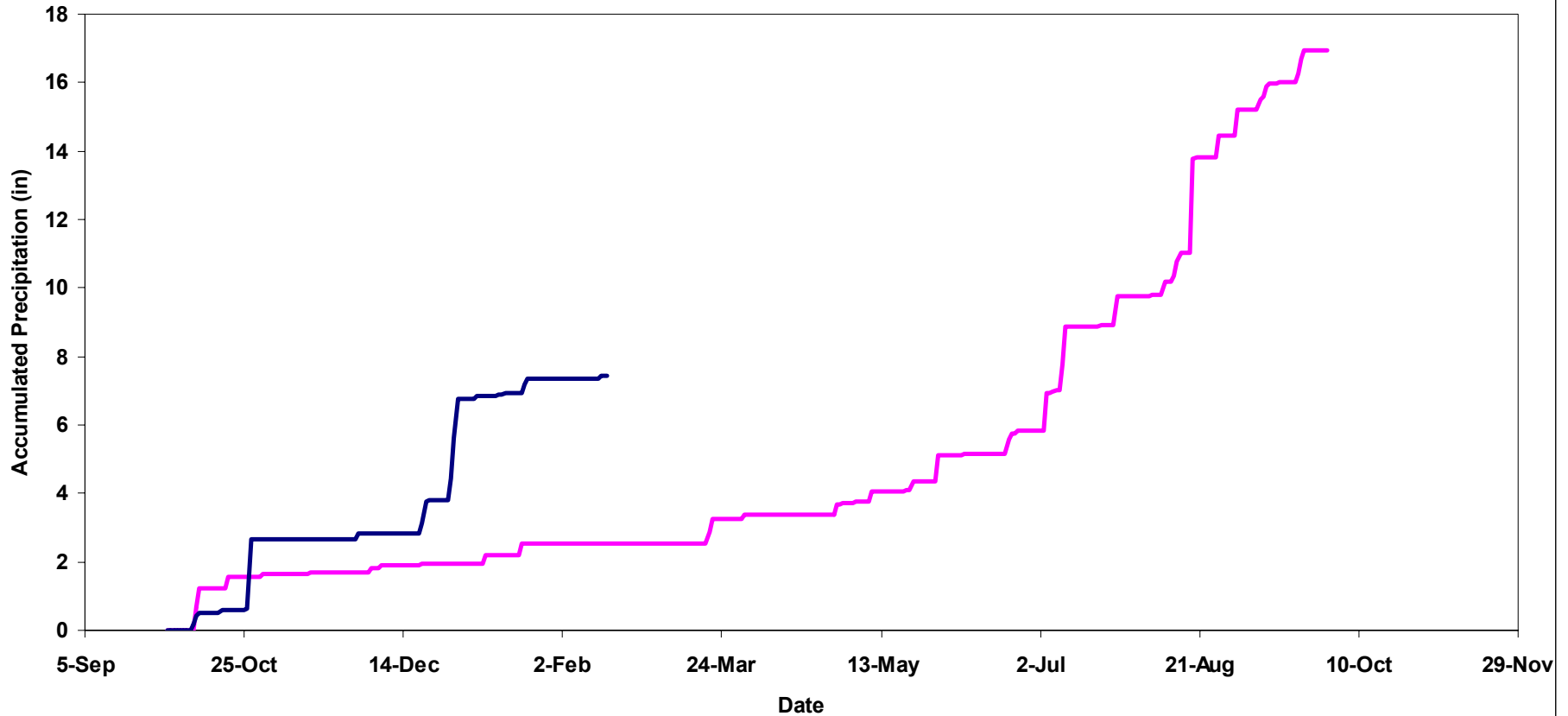
— Accumulated Precip WY 2007



CoCoRaHS Accumulated Precipitation

Otero County, CO Accumulated Precipitation WY 2006 and 2007

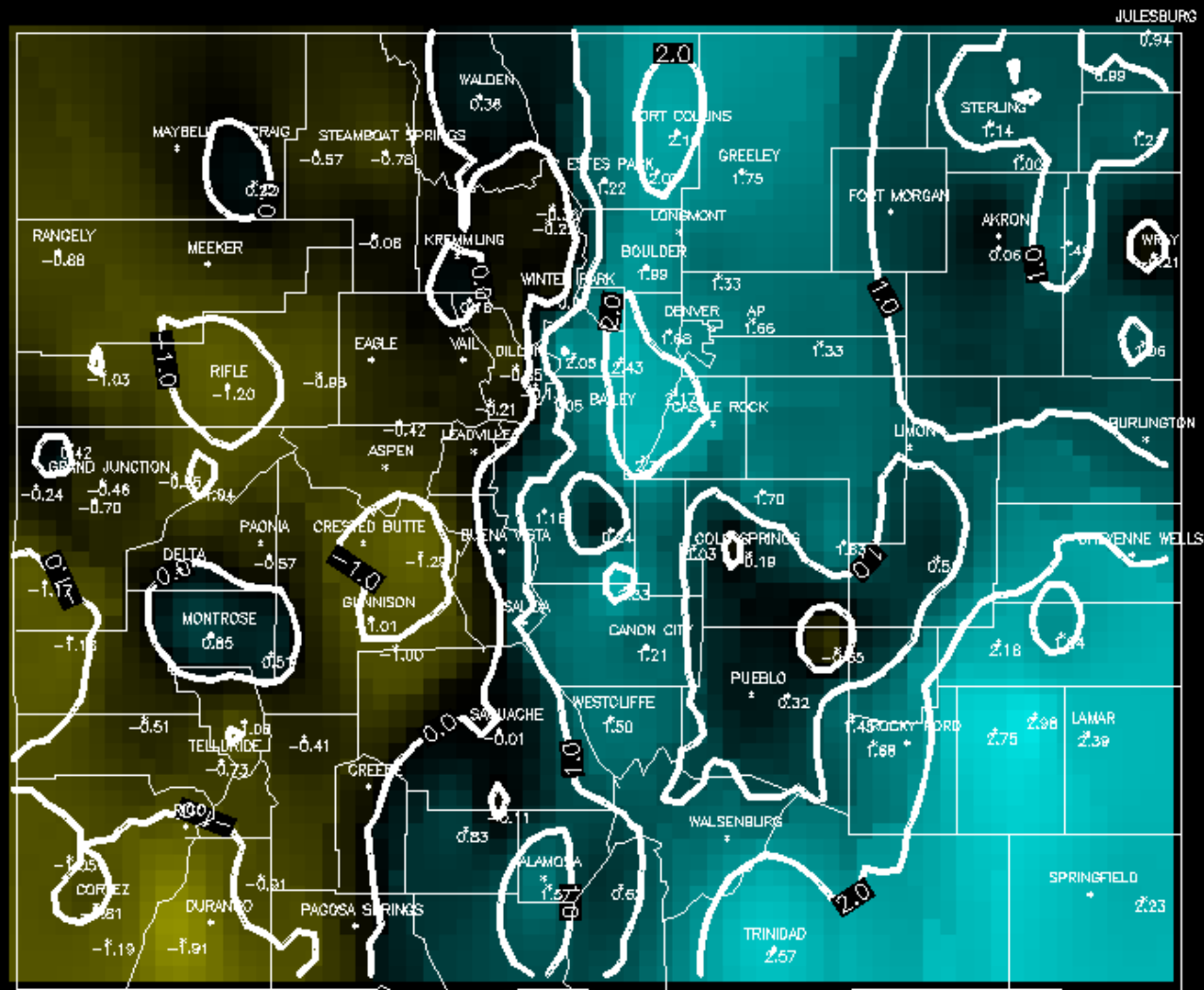
— Accumulated Precipitation WY 2006 — Accumulated Precipitation WY 2007



3 Month SPI

Colorado

1/2007 3 mon. SPI



87	<<<	2.0	7	>>>	-1.0
61	<<<	1.0	0	>>>	-2.0
38	<<<	0.0	0	>>>	-3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

12 Month SPI

Colorado

1/2007 12 mon. SPI



99 % < 2.0	6 % < -1.0
78 % < 1.0	0 % < -2.0
28 % < 0.0	0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

24 Month SPI

Colorado

1/2007 24 mon. SPI



100	>>> 2.0	2	<<< -1.0
90	>>> 1.0	1	<<< -2.0
28	>>> 0.0	0	<<< -3.0

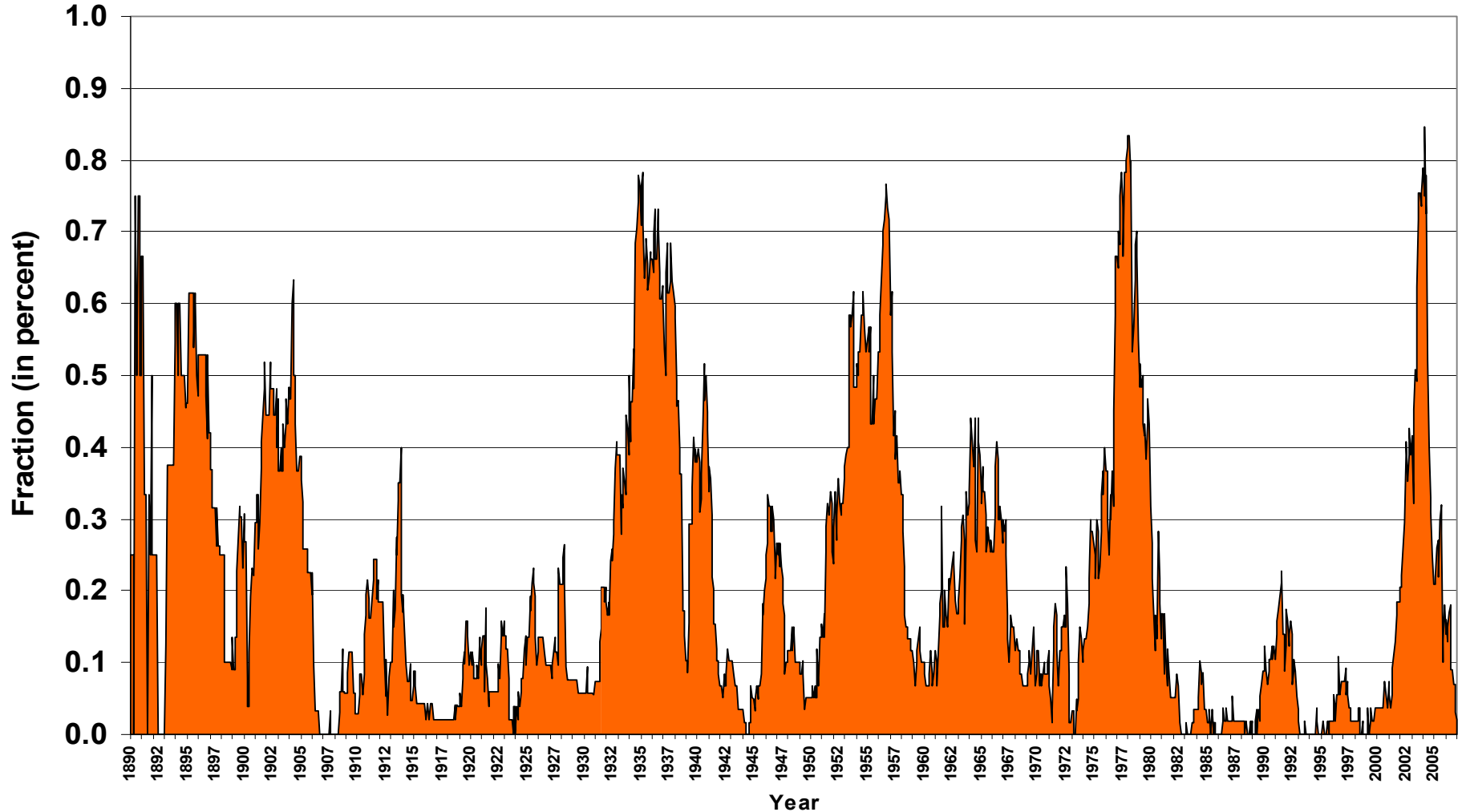
Produced by:
Colorado Climate Center
Fort Collins, CO

Standardized Precipitation Index

Fraction of Colorado in Drought

Based on 48 month SPI

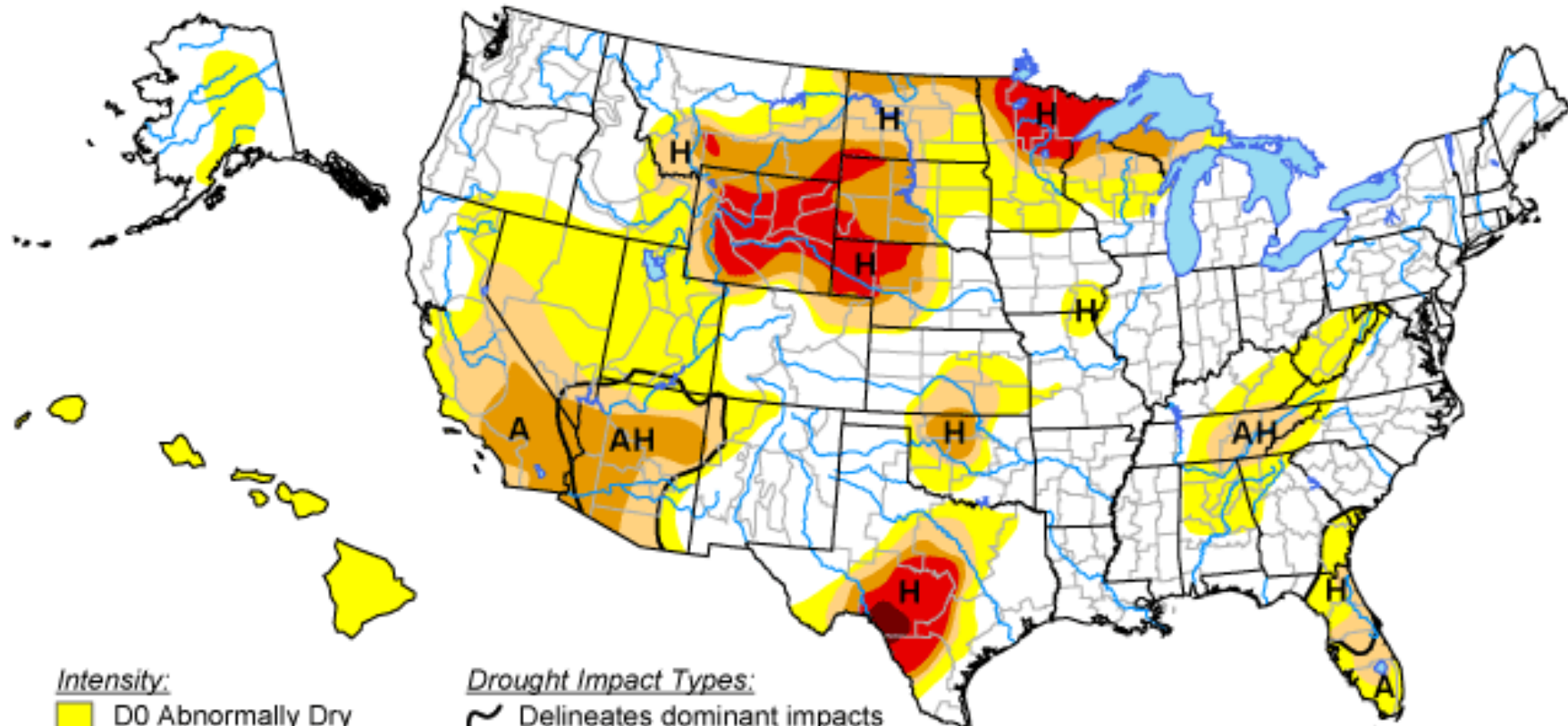
(1890 - Jan 2007)








U.S. Drought Monitor

February 13, 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, February 15, 2007

Author: Richard Tinker, CPC/NOAA

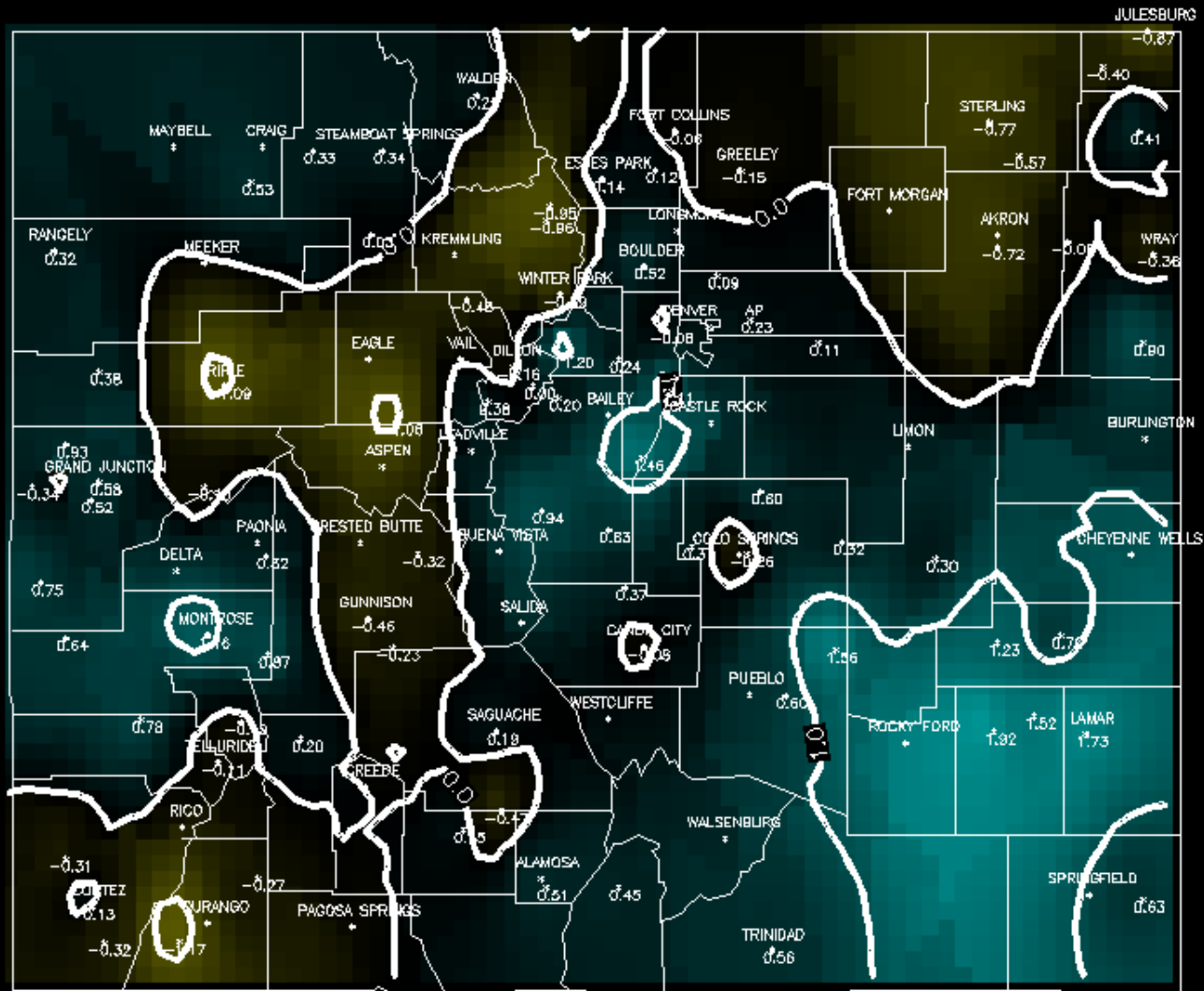
Projected Conditions at 0.2 Probability Level

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

Projected Conditions at 0.5 Probability Level 12 Month SPI at 6 months



Colorado

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



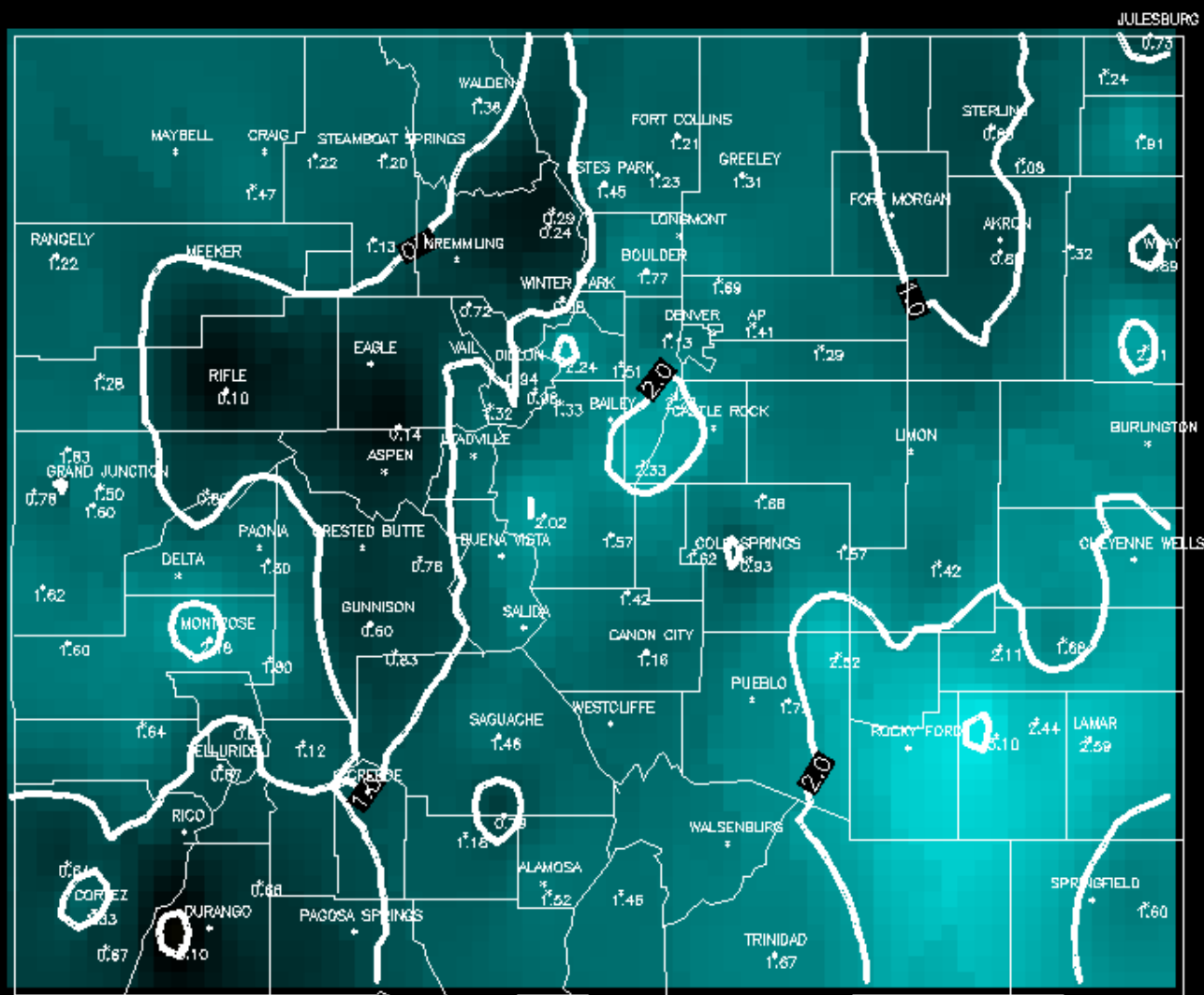
97 % < 2.0	0 % < -1.0
71 % < 1.0	0 % < -2.0
5 % < 0.0	0 % < -3.0

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”

