



# *Drought Update*

*June 15, 2004 WATF meeting*

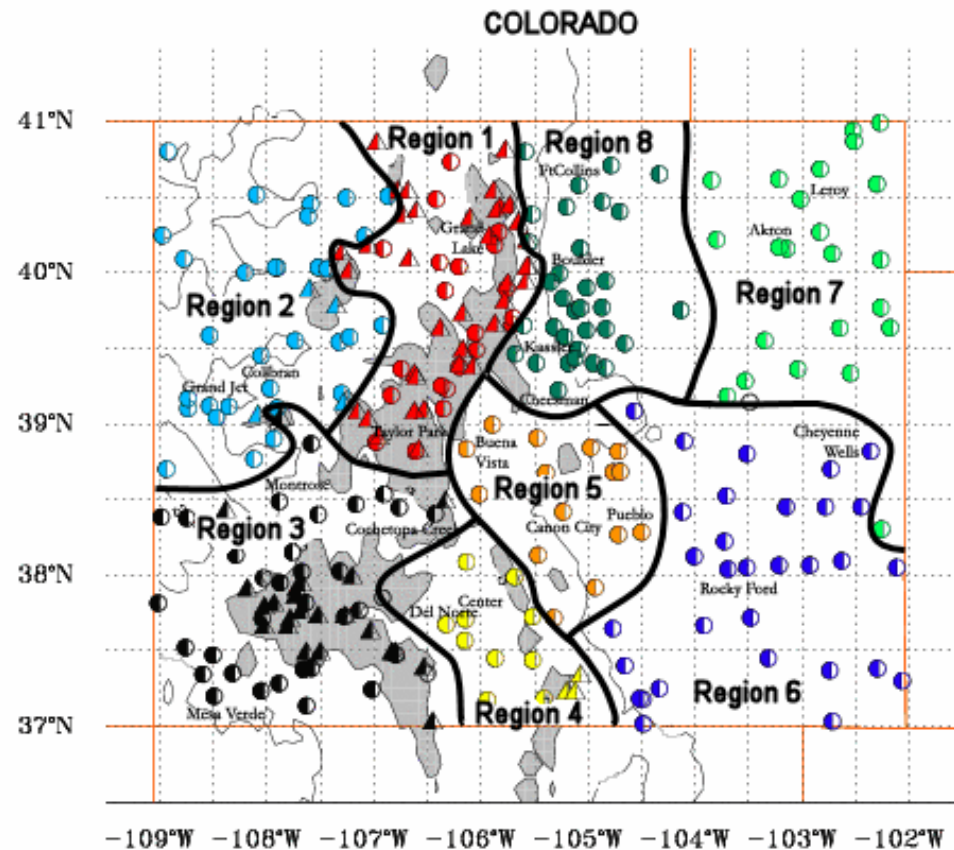
Nolan J. Doesken  
Colorado Climate Center

(presented at the WATF meeting, DOW Headquarters, Denver)

Prepared by Odie Bliss

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

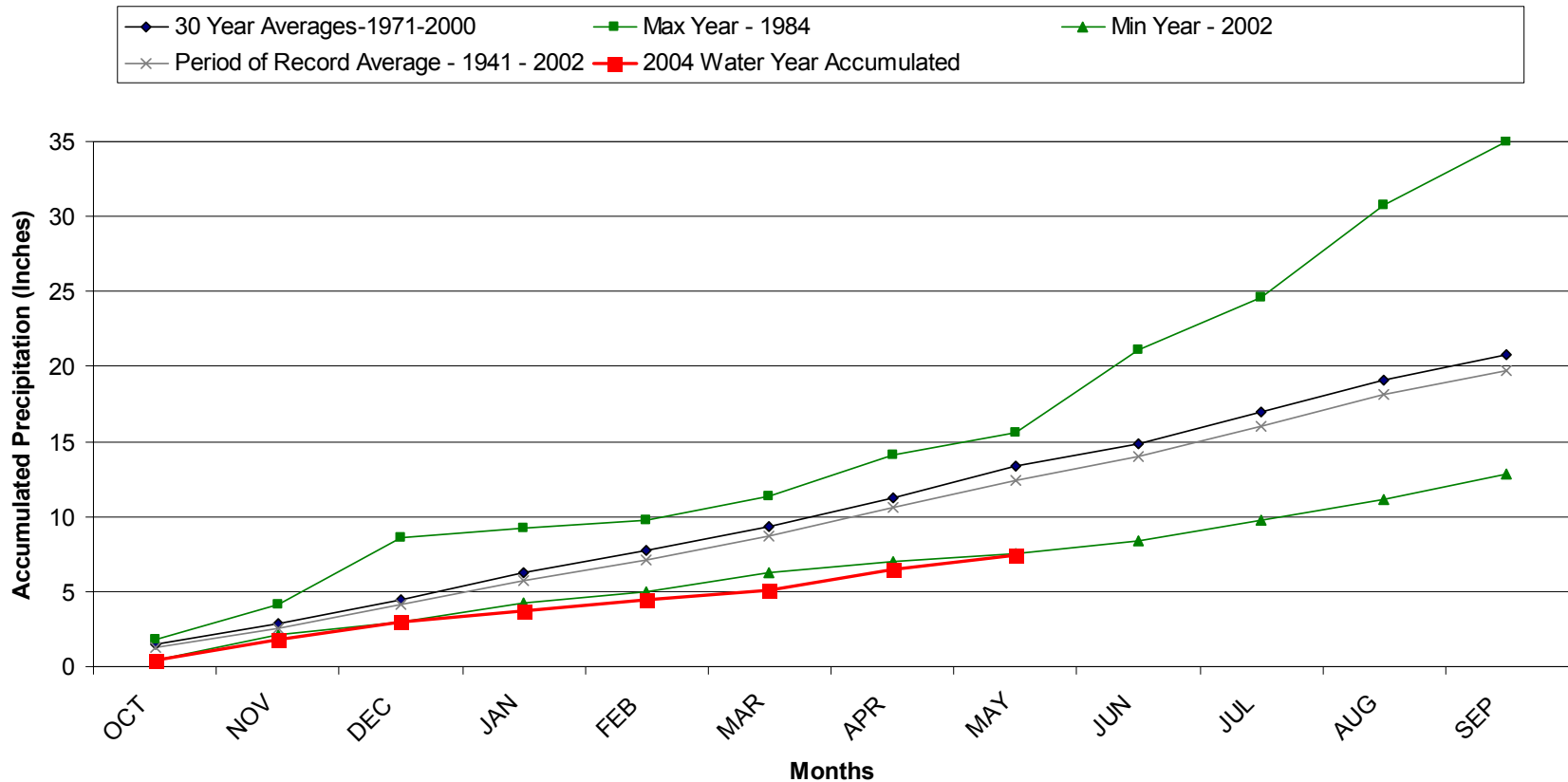
Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO



COOP	SNOTEL	IND		COOP	SNOTEL	IND	
●	▲	IND 1		●	▲	IND 6	
●	▲	IND 2		●	▲	IND 7	
●	▲	IND 3		●	▲	IND 8	
●	▲	IND 4					
●	▲	IND 5					
○	△	Stations not assigned to an index					

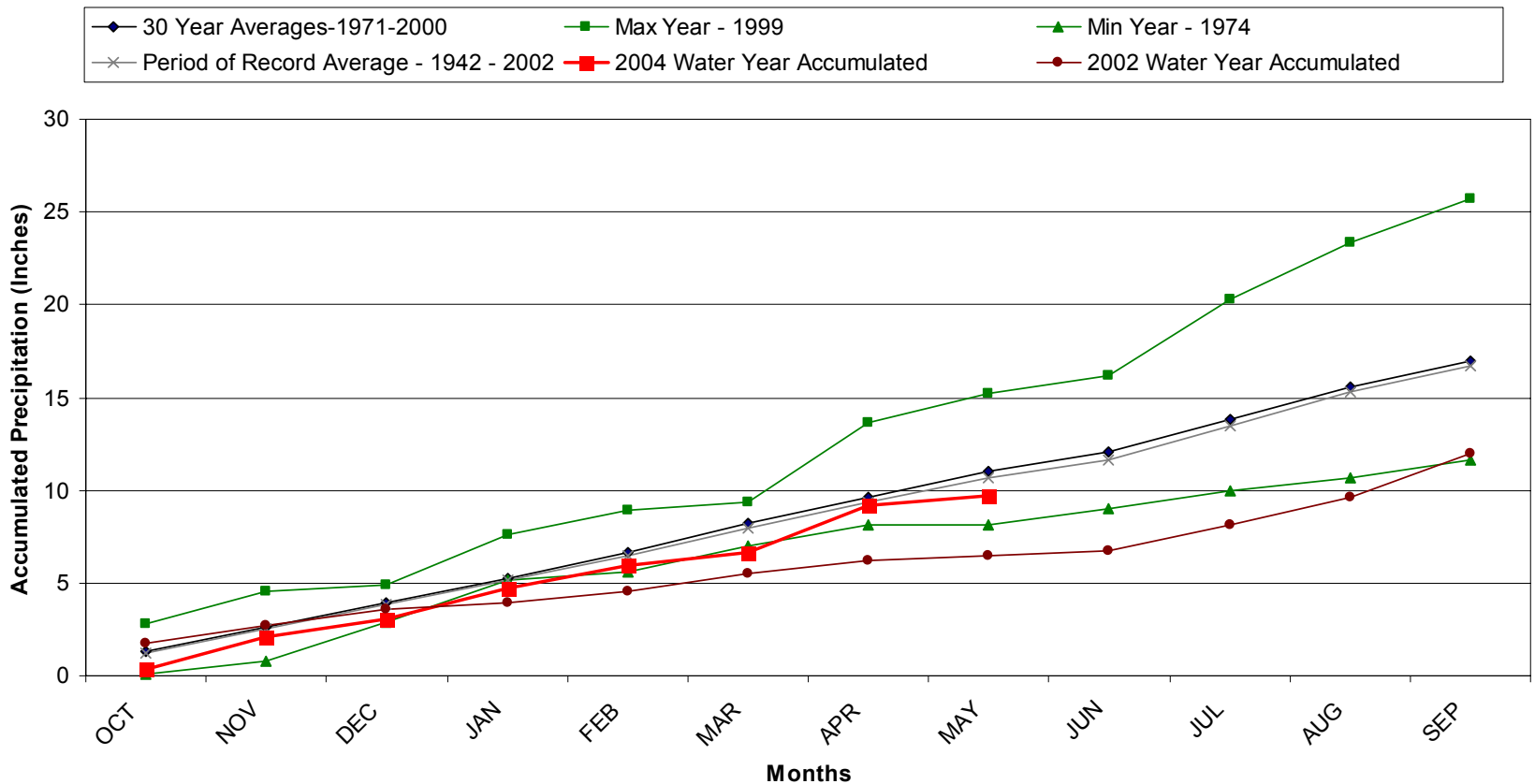
# Division 1- Grand Lake 1NW

## Grand Lake 1 NW 2004 Water Year (through Oct '03 - May '04)



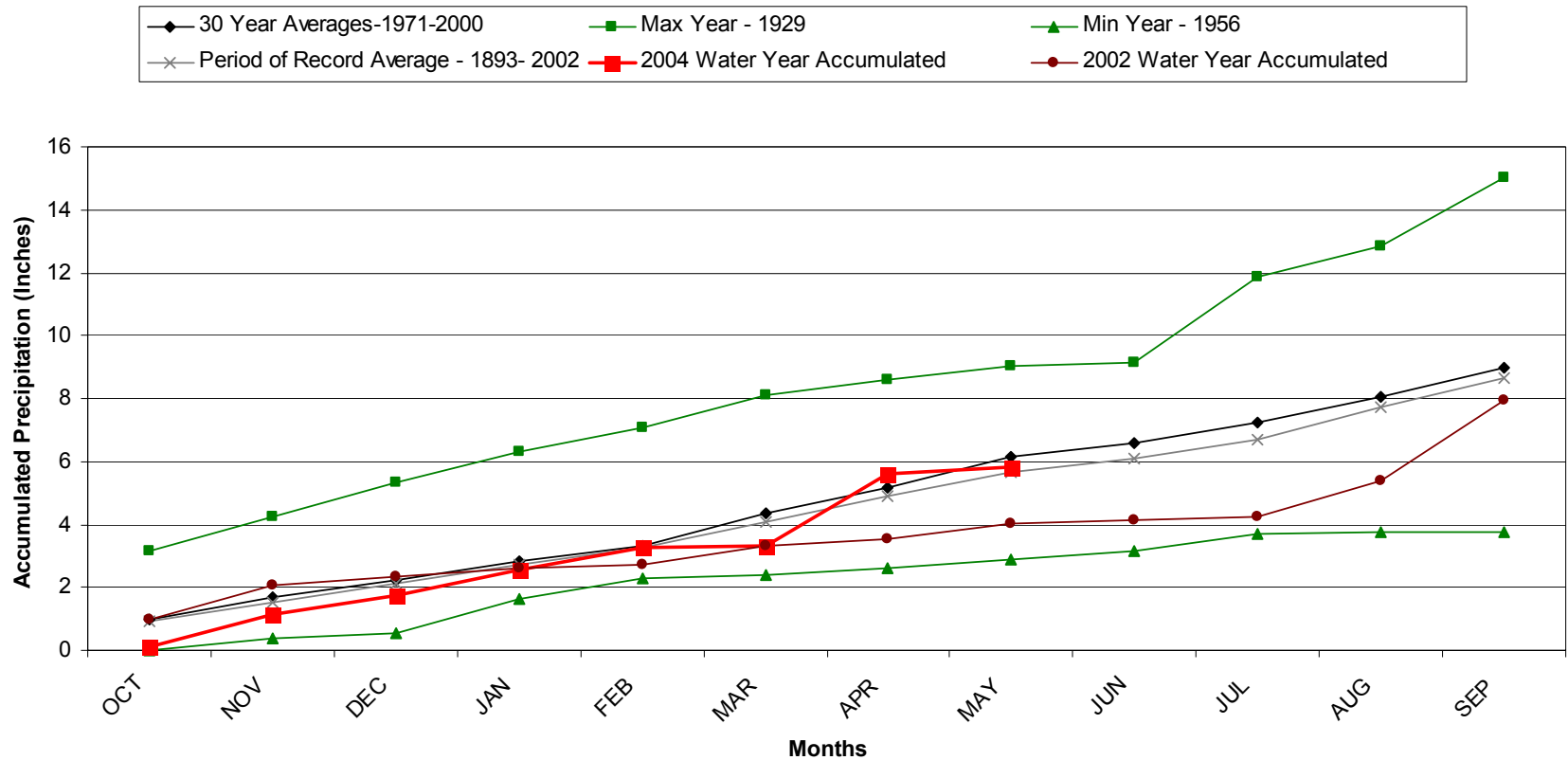
# Division 1- Taylor Park

## Taylor Park 2004 Water Year (through Oct '03 - May '04)



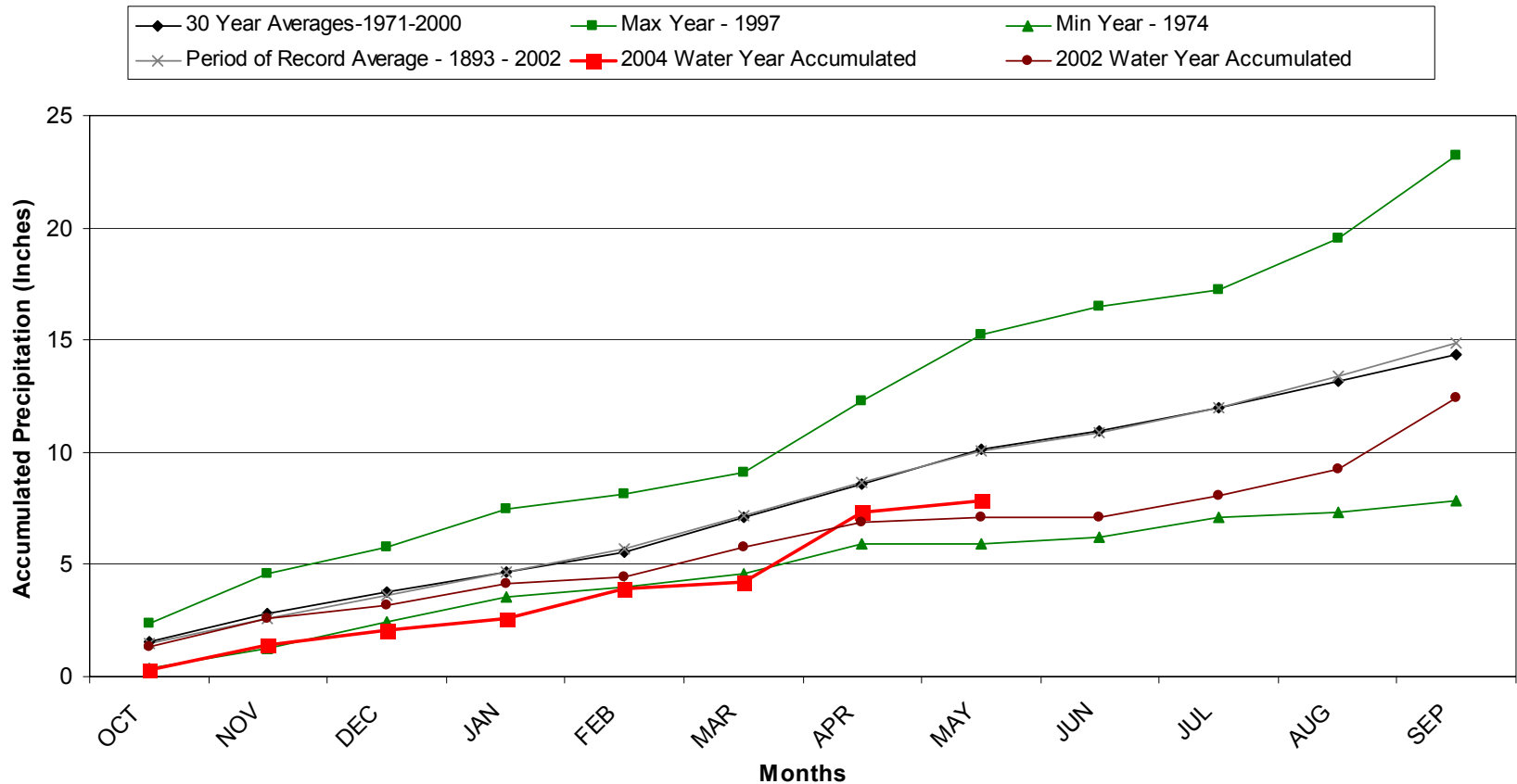
# Division 2 – Grand Junction

## Grand Junction WSFO 2004 Water Year (through Oct '03 - May '04)



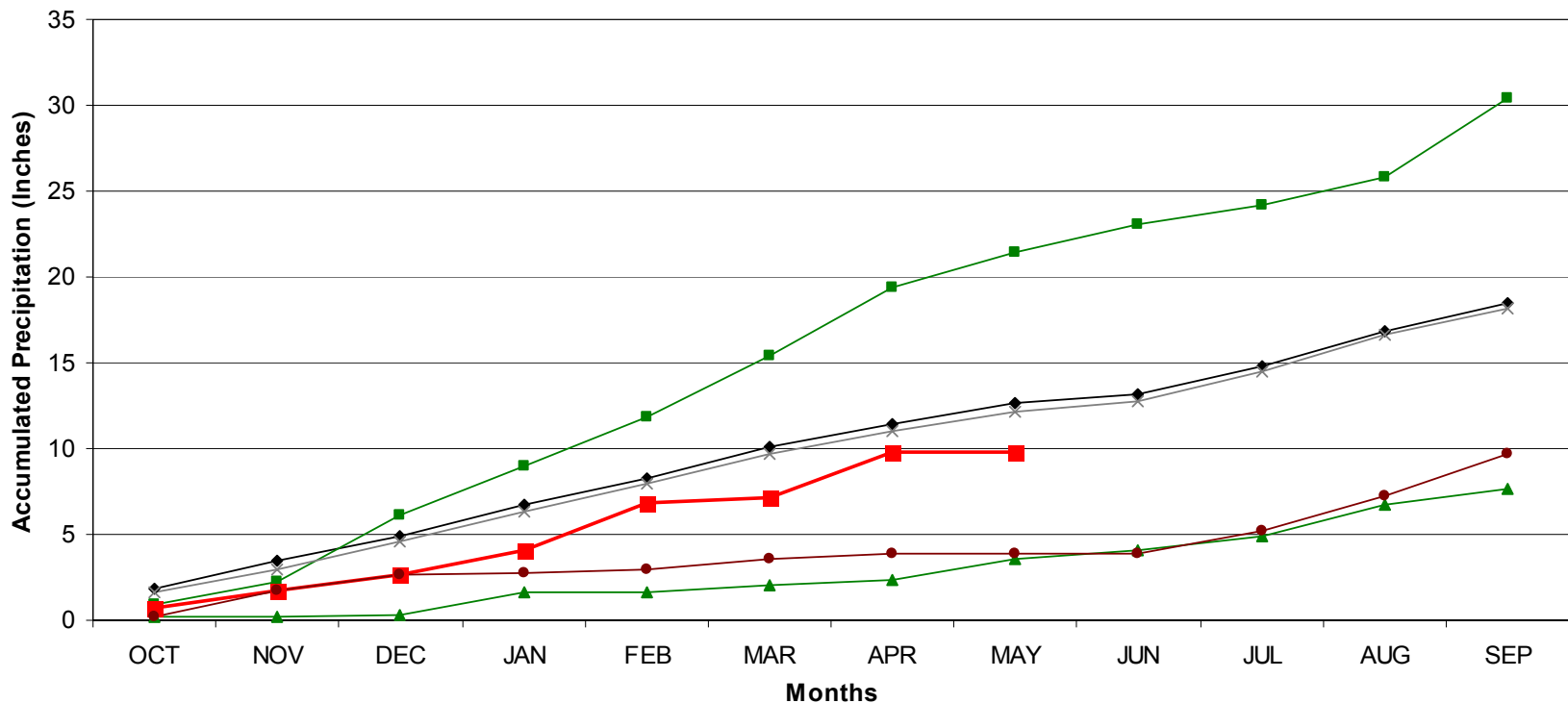
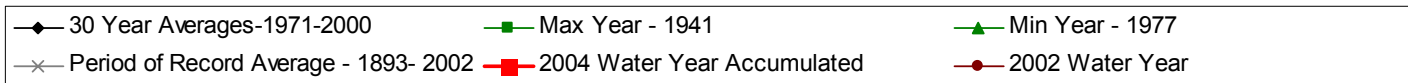
# Division 2 – Collbran

## Collbran 2SW 2004 Water Year (through Oct '03 - May '04)



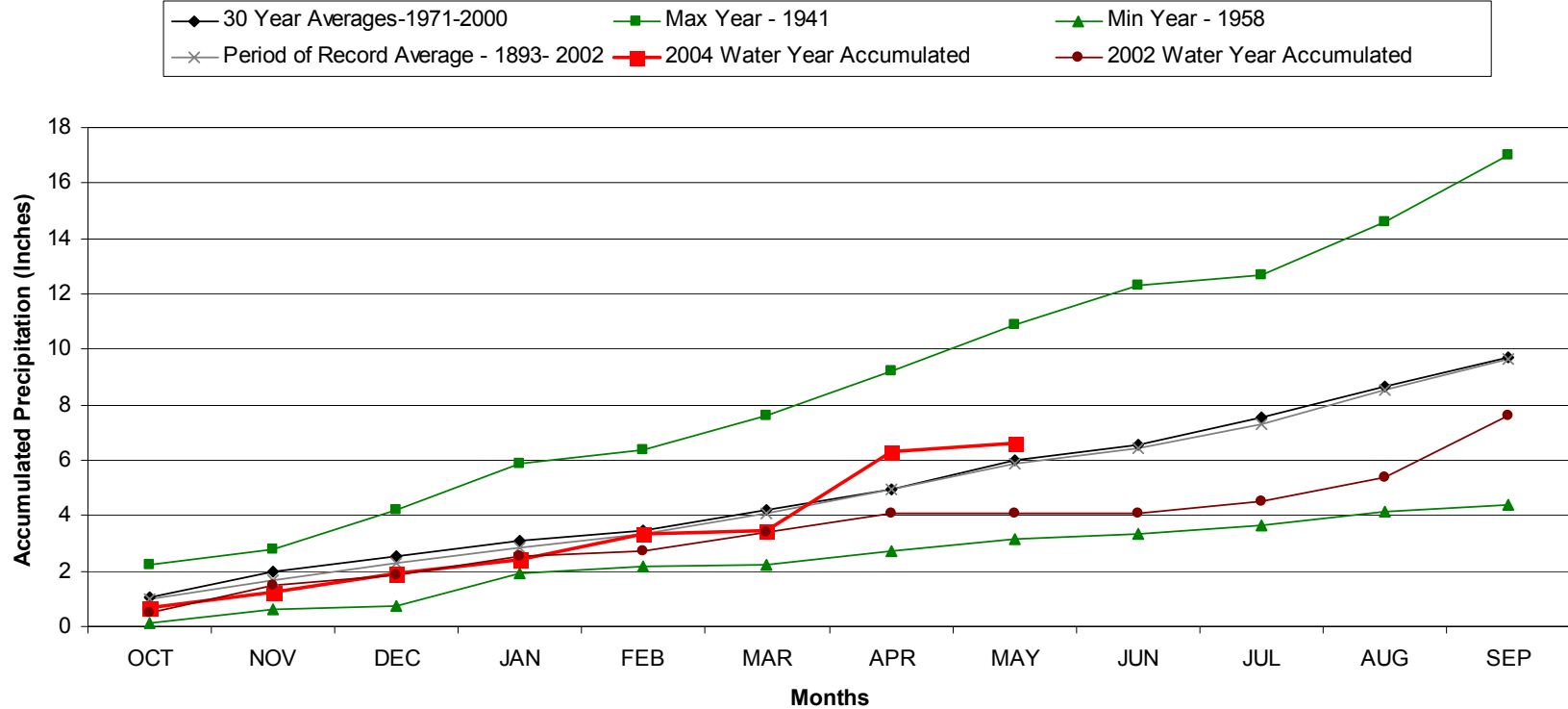
# Division 3 – Mesa Verde

## Mesa Verde NP 2004 Water Year (through Oct '03 - May '04)



# Division 3 - Montrose

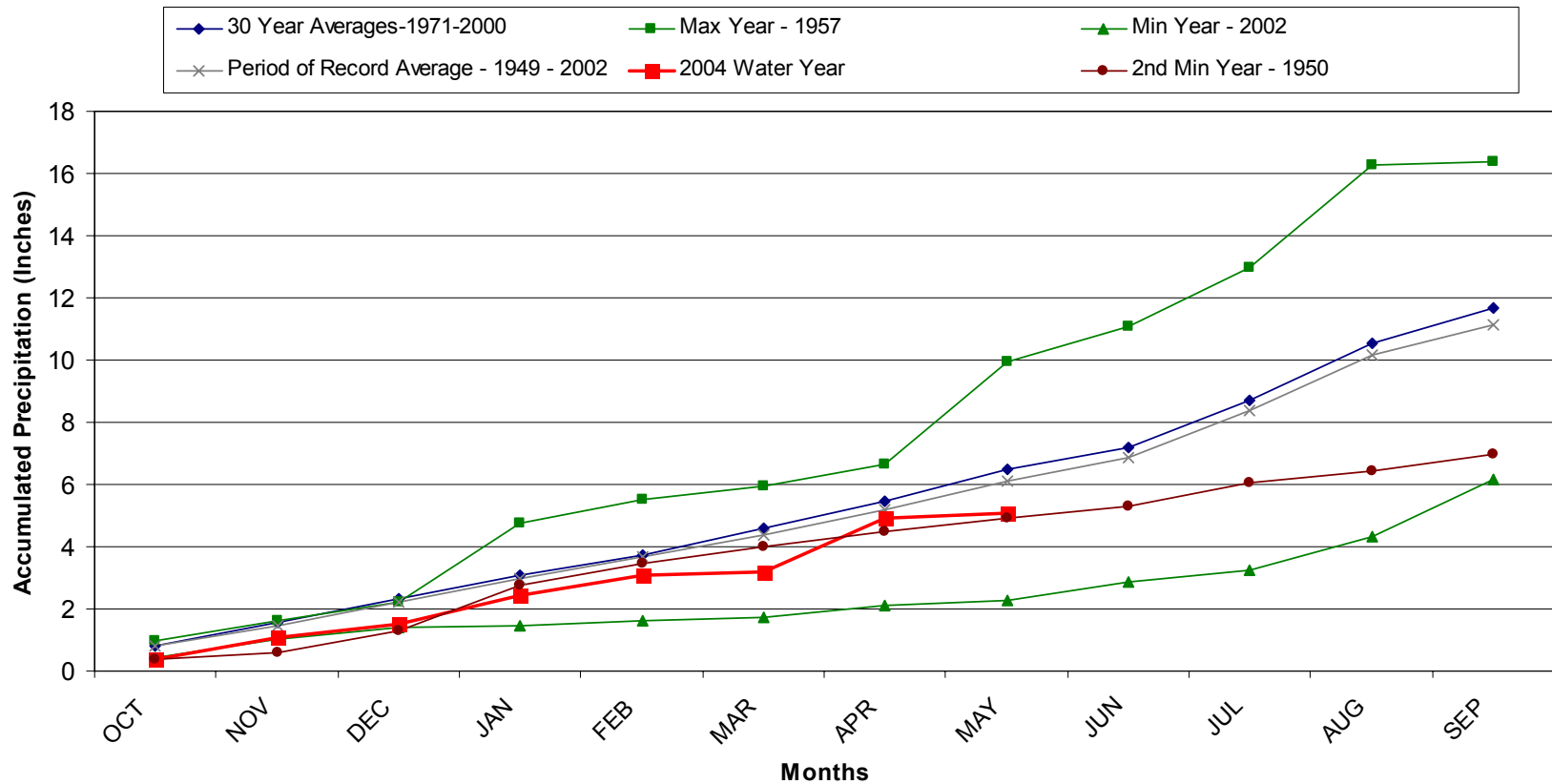
## Montrose #2 2004 Water Year (through Oct '03 - May '04)





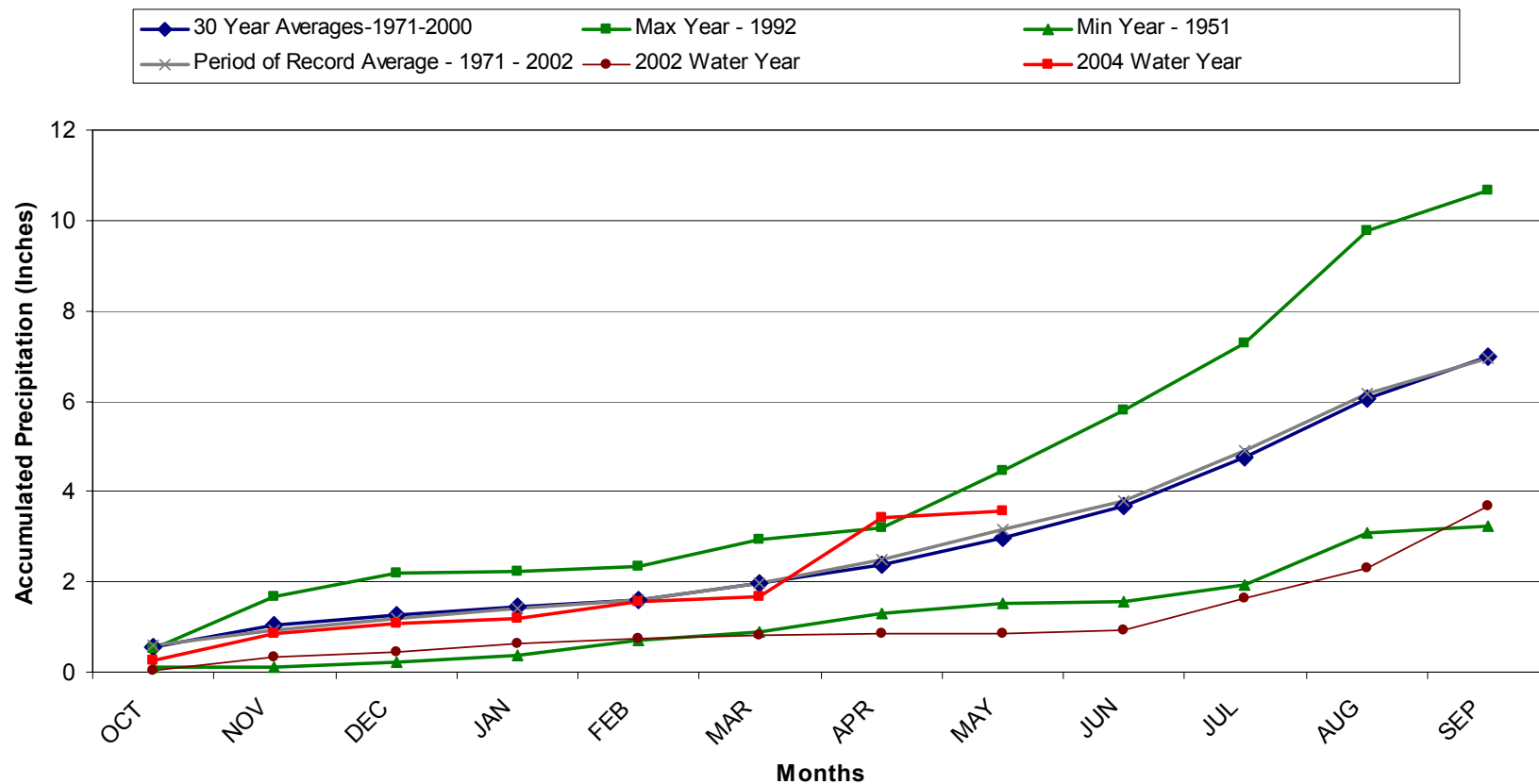
# Division 3 – Cochetopa Creek

## Cochetopa Creek 2004 Water Year (through Oct '03 - May '04)



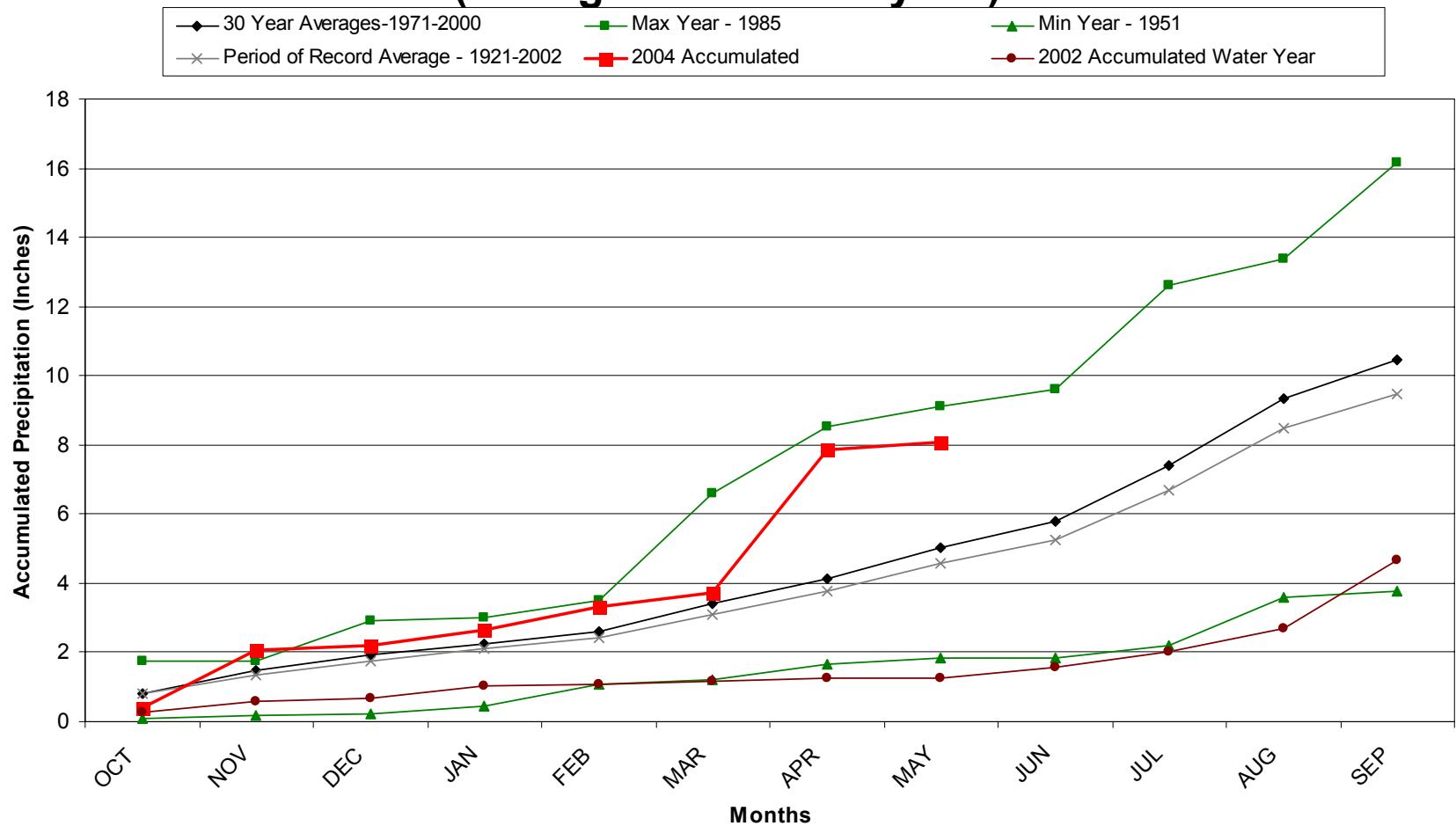
# Division 4 - Center

## Center 4SSW 2004 Water Year (through Oct '03 - May '04)



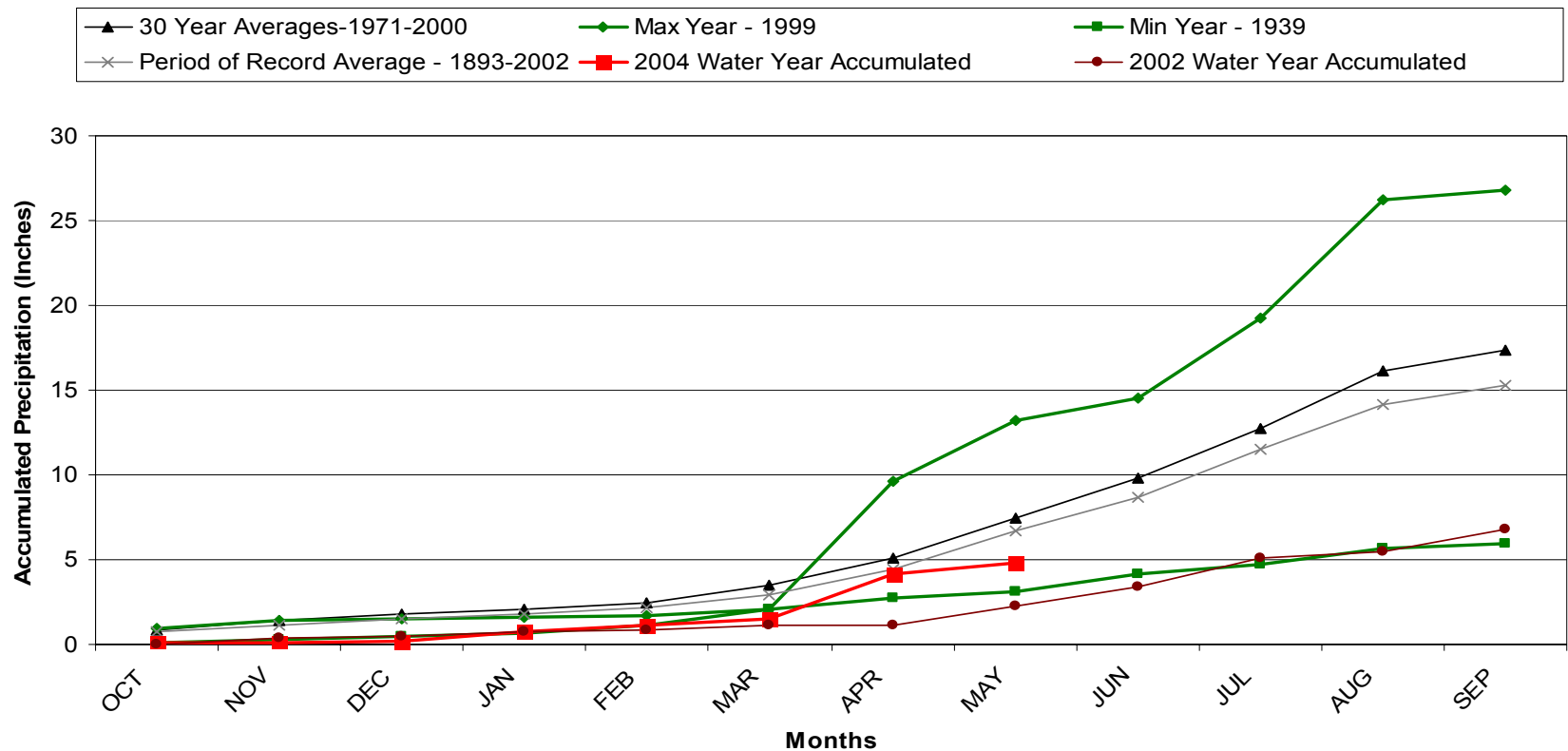
# Division 4 – Del Norte

## Del Norte 2004 Water Year (through Oct '03 - May '04)



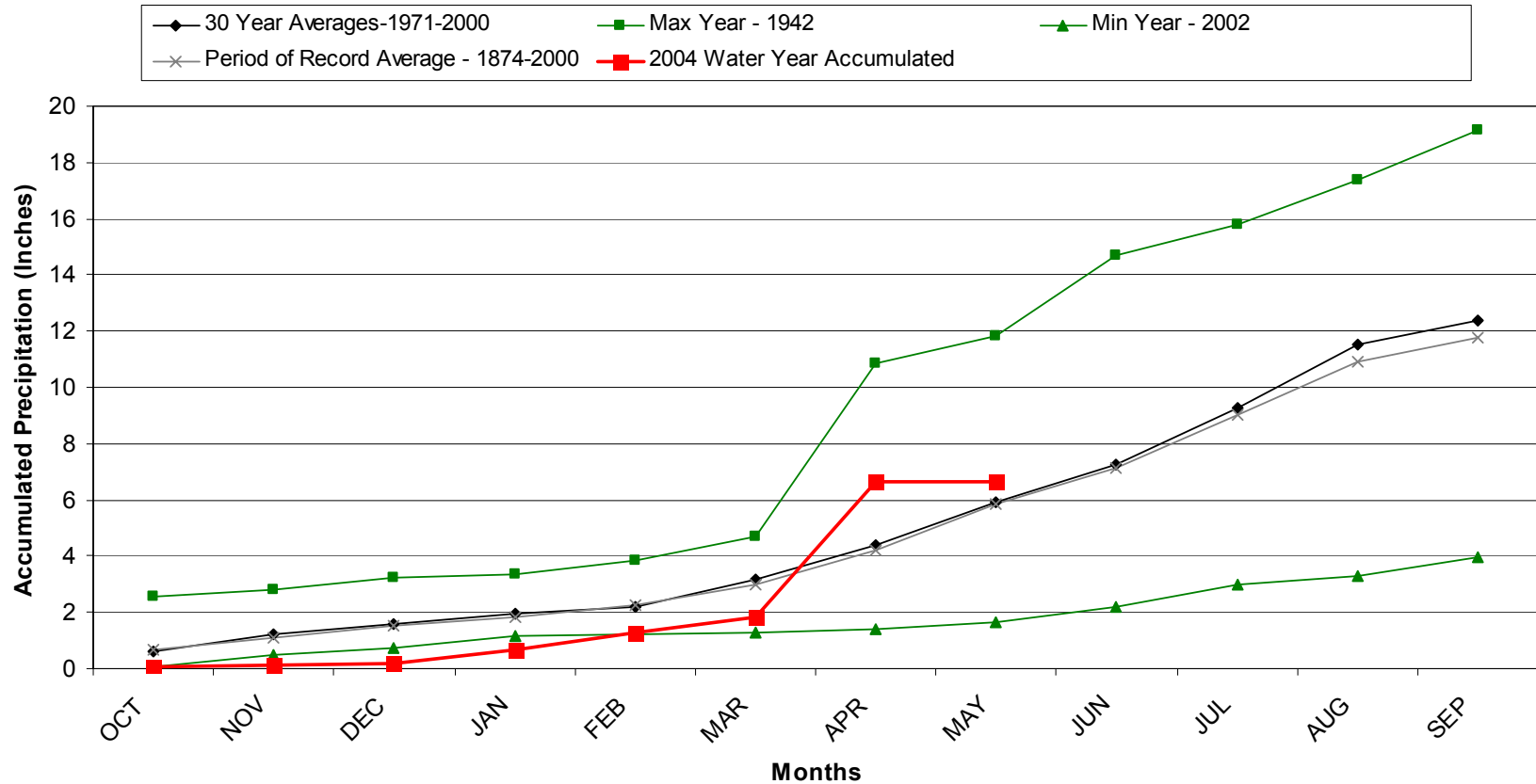
# Division 5 – Colorado Springs

## Colorado Springs 2004 Water Year (through Oct '03 - May '04)



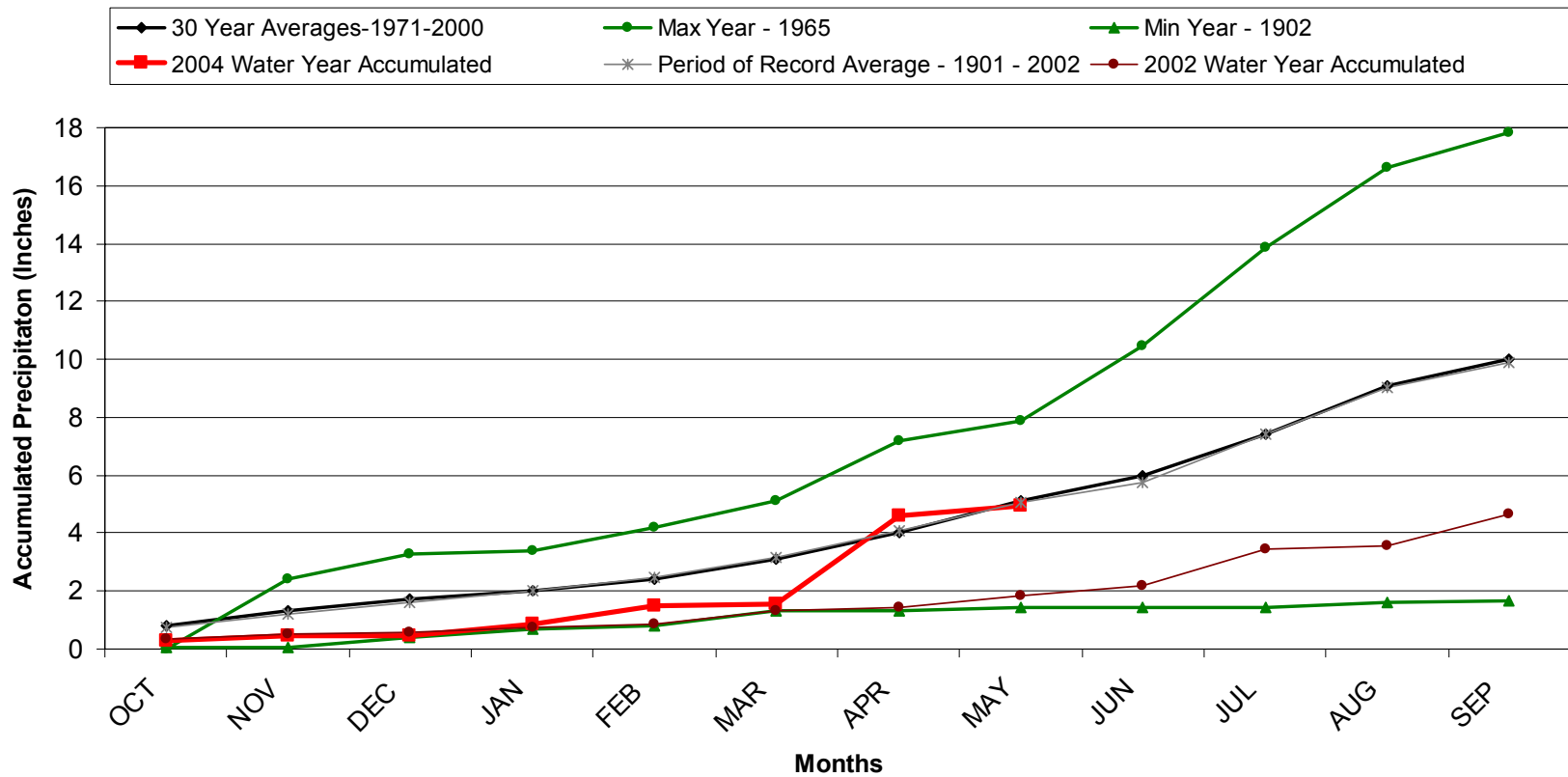
# Division 5 - Pueblo

## Pueblo WSO 2004 Water Year (through Oct '03 - May '04)



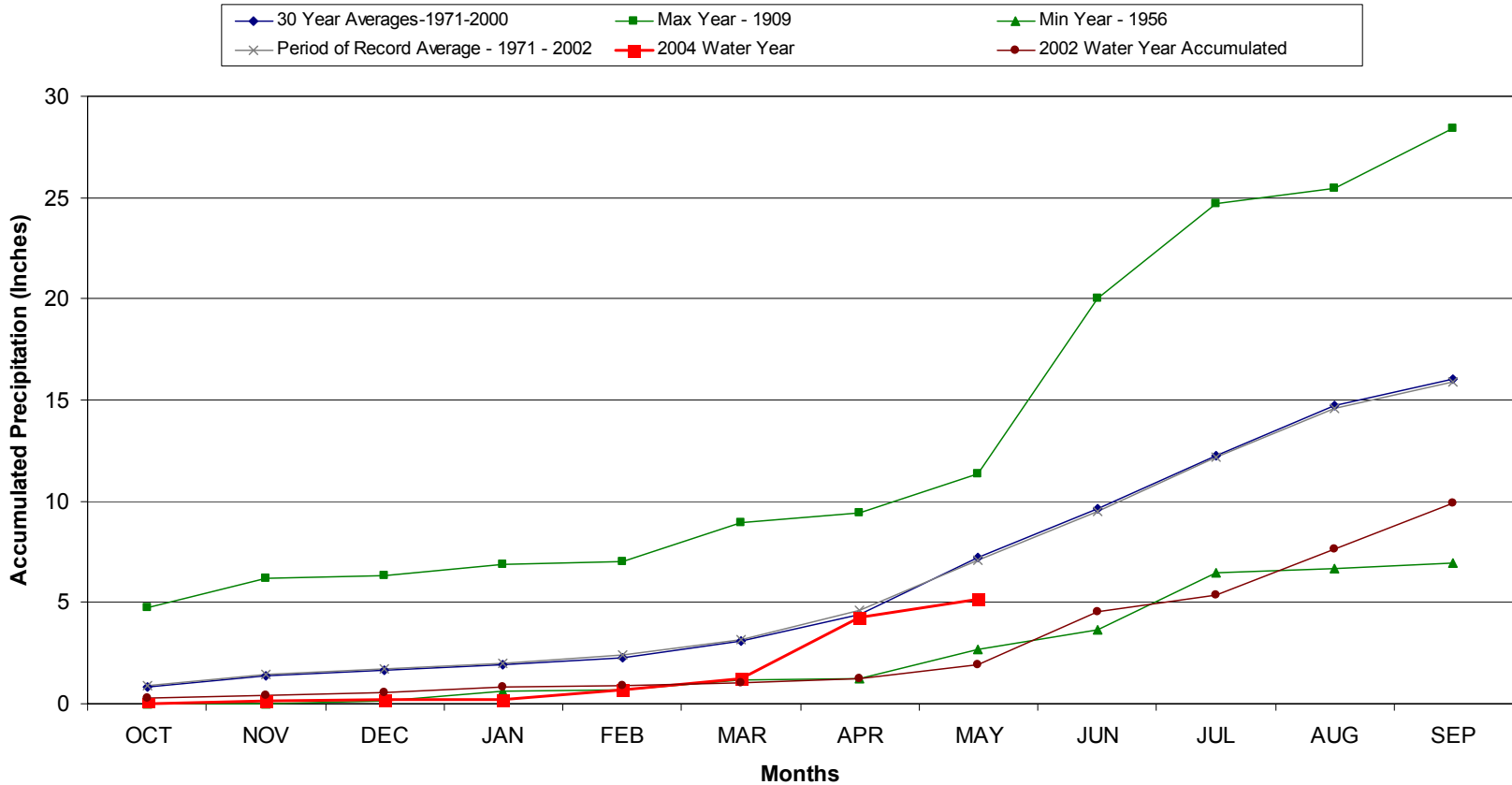
# Division 5 – Buena Vista

## Buena Vista 2004 Water Year through Oct '03 - May '04



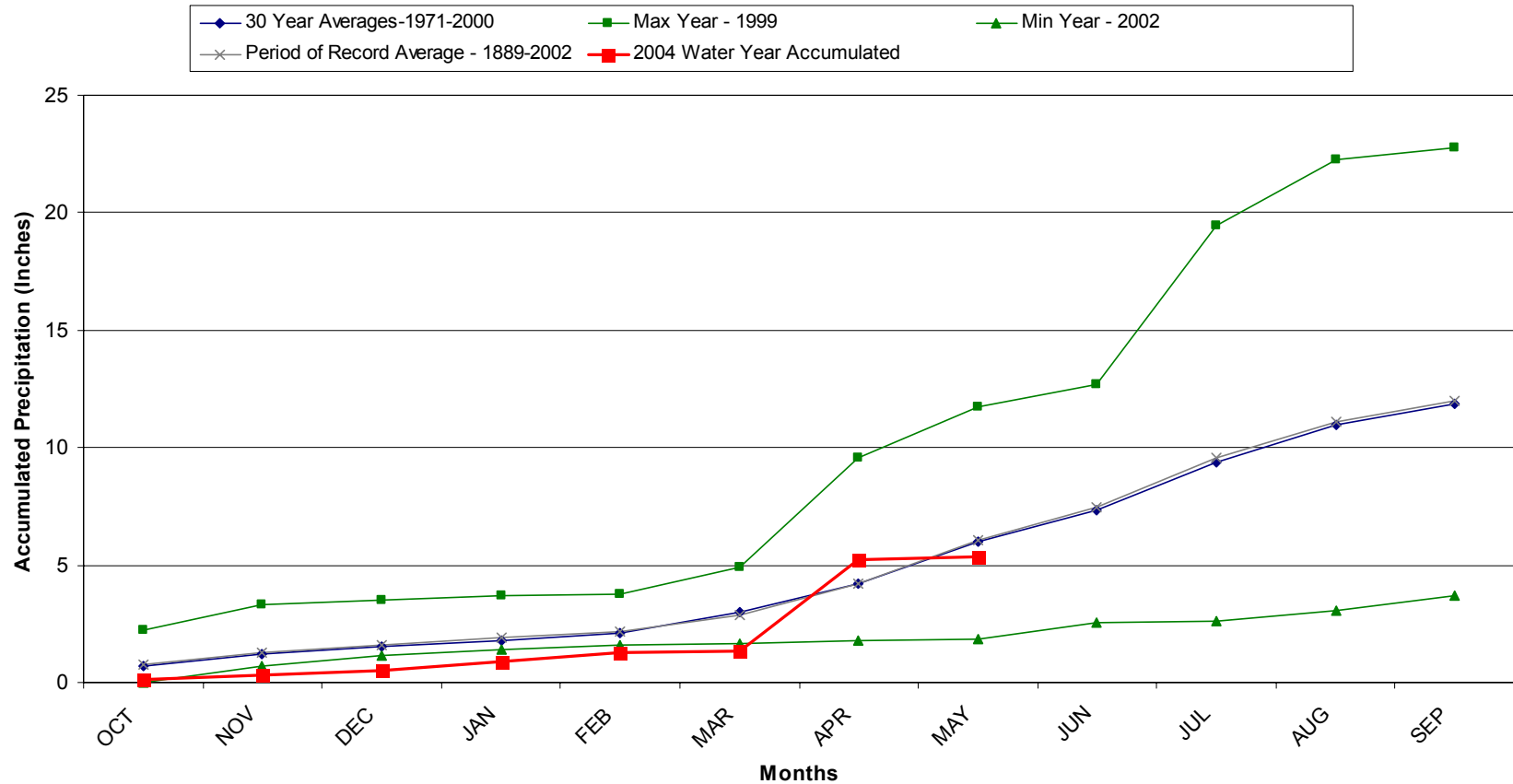
# Division 6 – Cheyenne Wells

## Cheyenne Wells 2004 Water Year (through Oct '03 - May '04)



# Division 6 – Rocky Ford

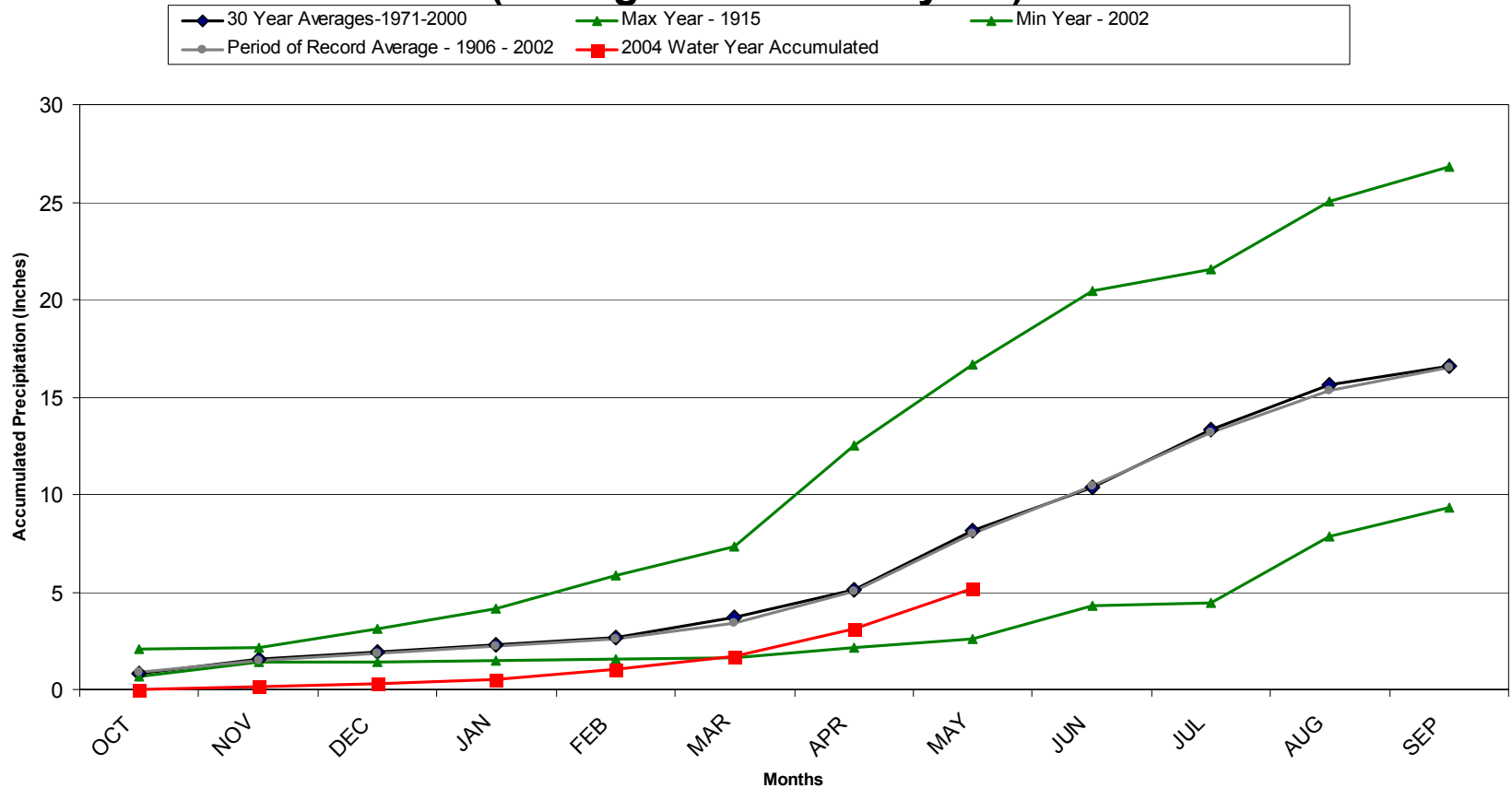
## Rocky Ford 2004 Water Year (through Oct '03 - May '04)





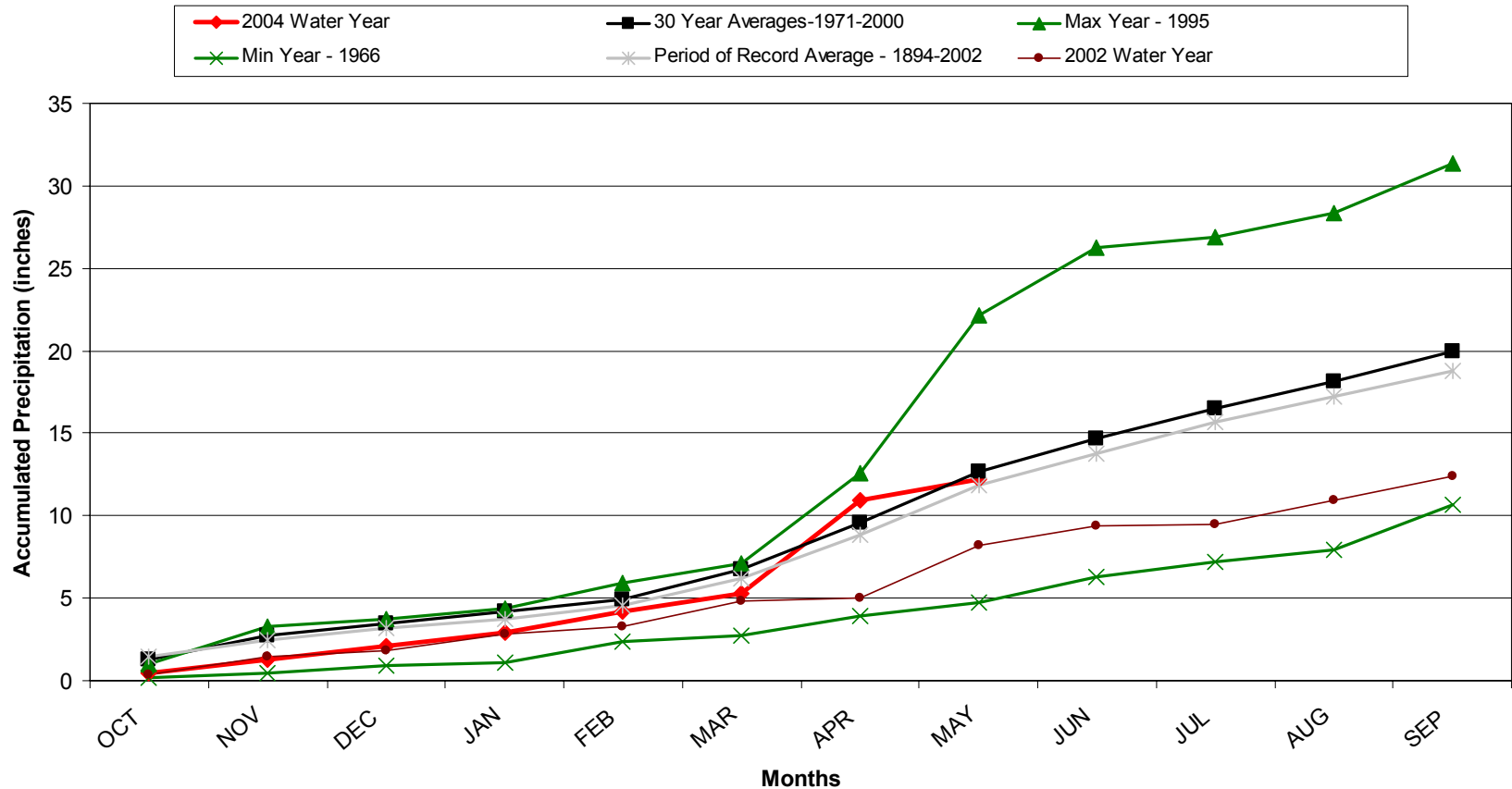
# Division 7 – Akron

## Akron 4E 2004 Water Year (through Oct '03 - May '04)



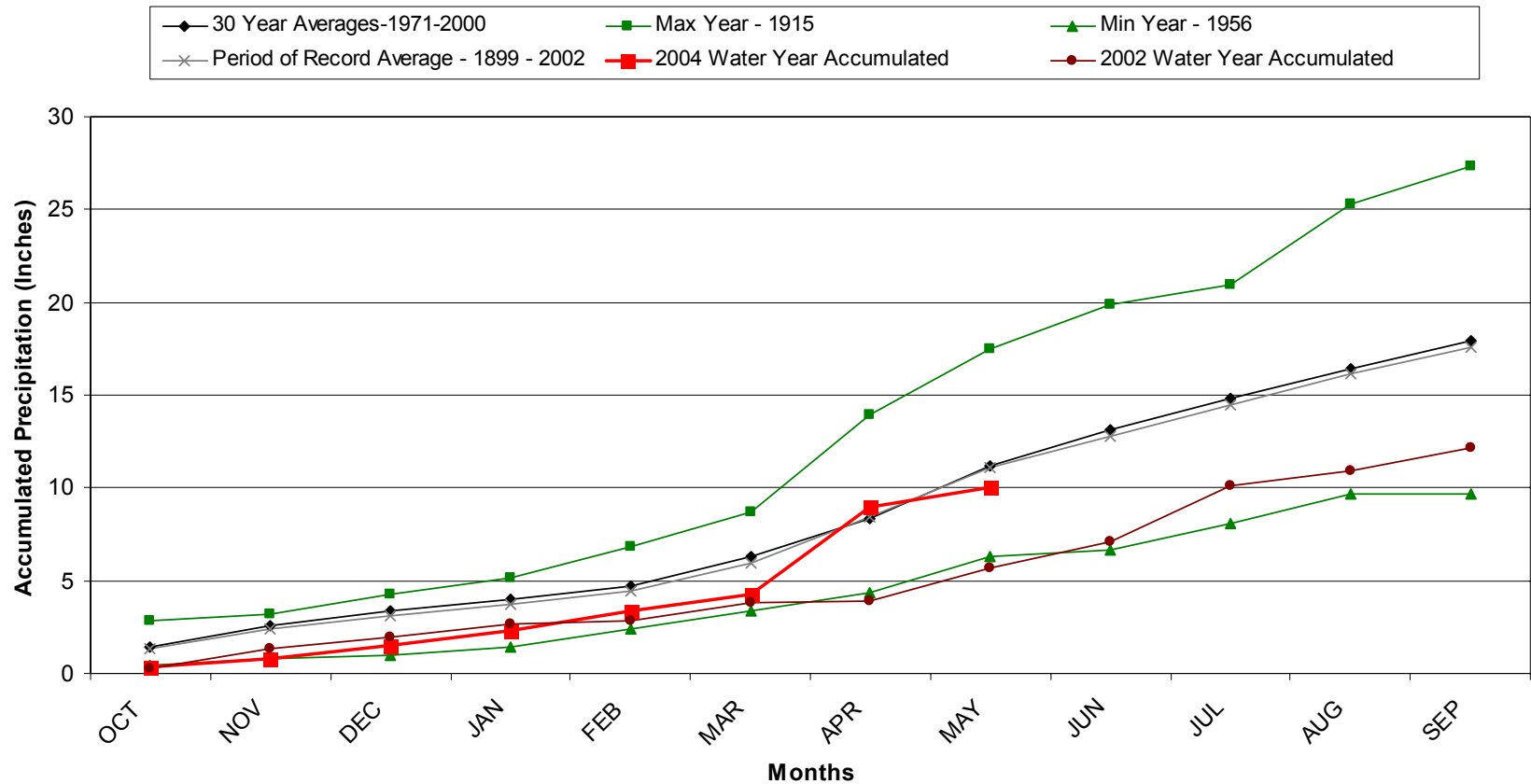
# Division 8 – Boulder

## Boulder 2004 Water Year through Oct '03 - May '04



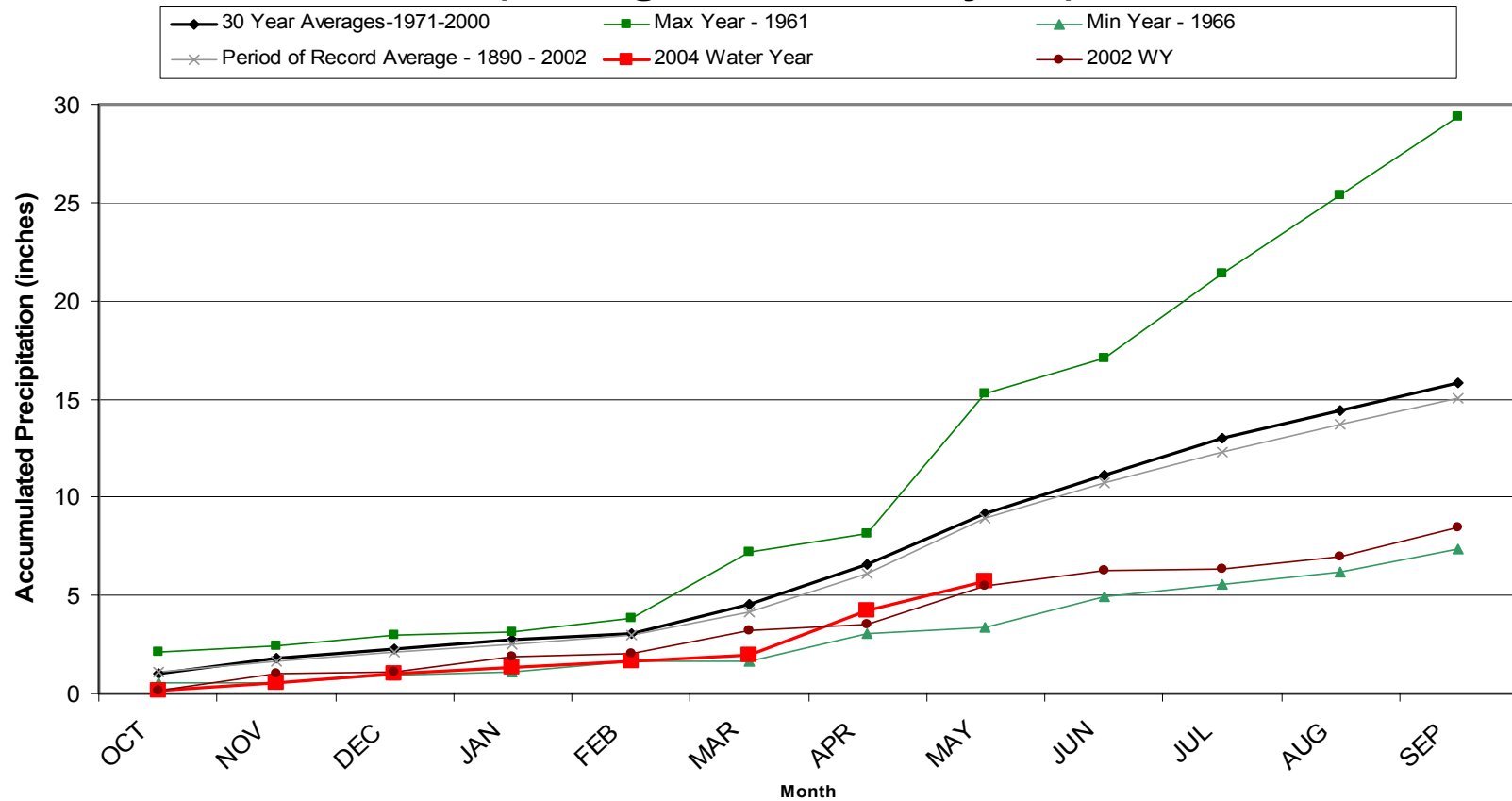
# Division 8 – Kassler

## Kassler 2004 Water Year (through Oct '03 - May '04)



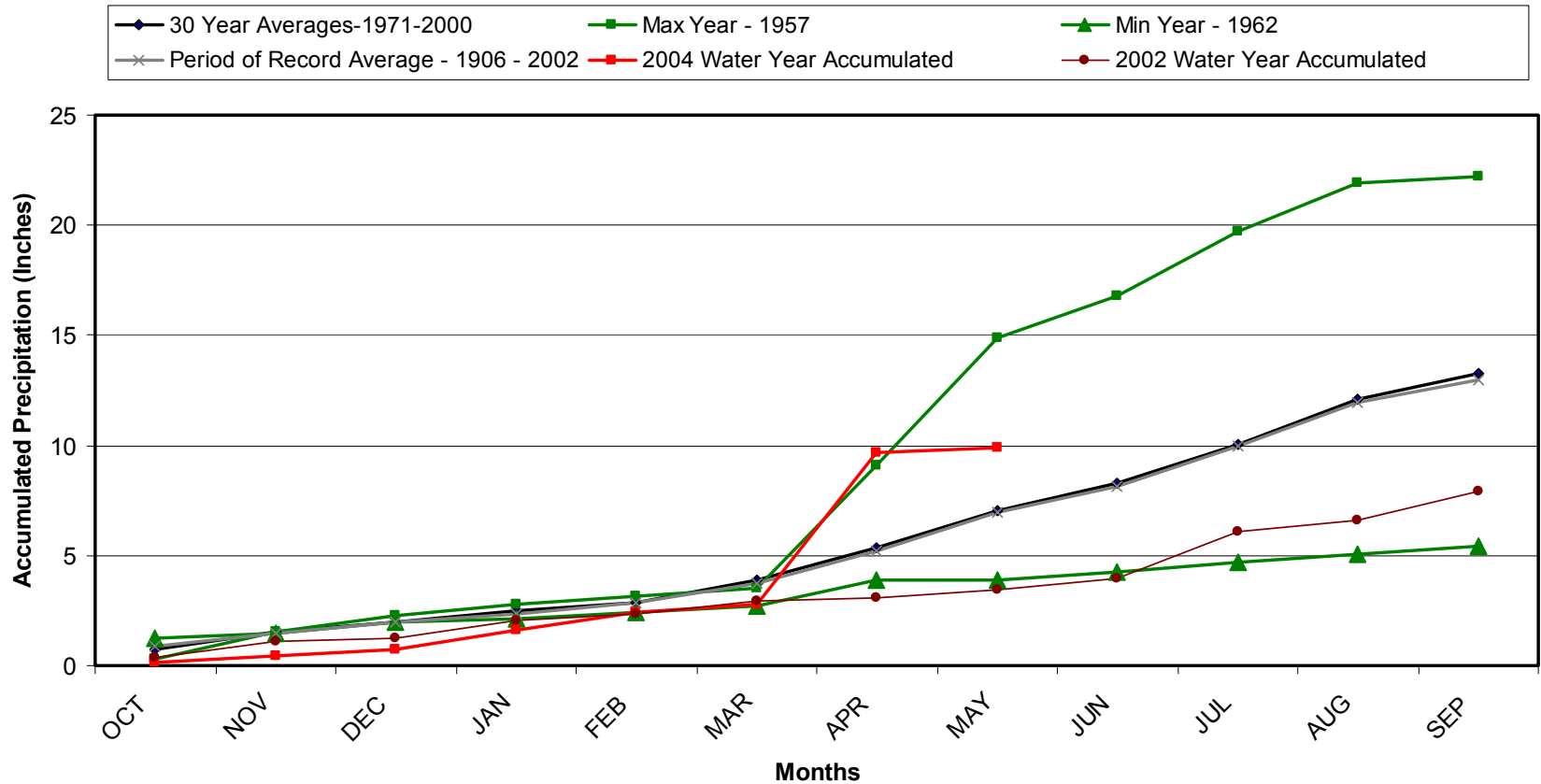
# Division 8 – Fort Collins

## Fort Collins 2004 Water Year (through Oct '03 - May '04)

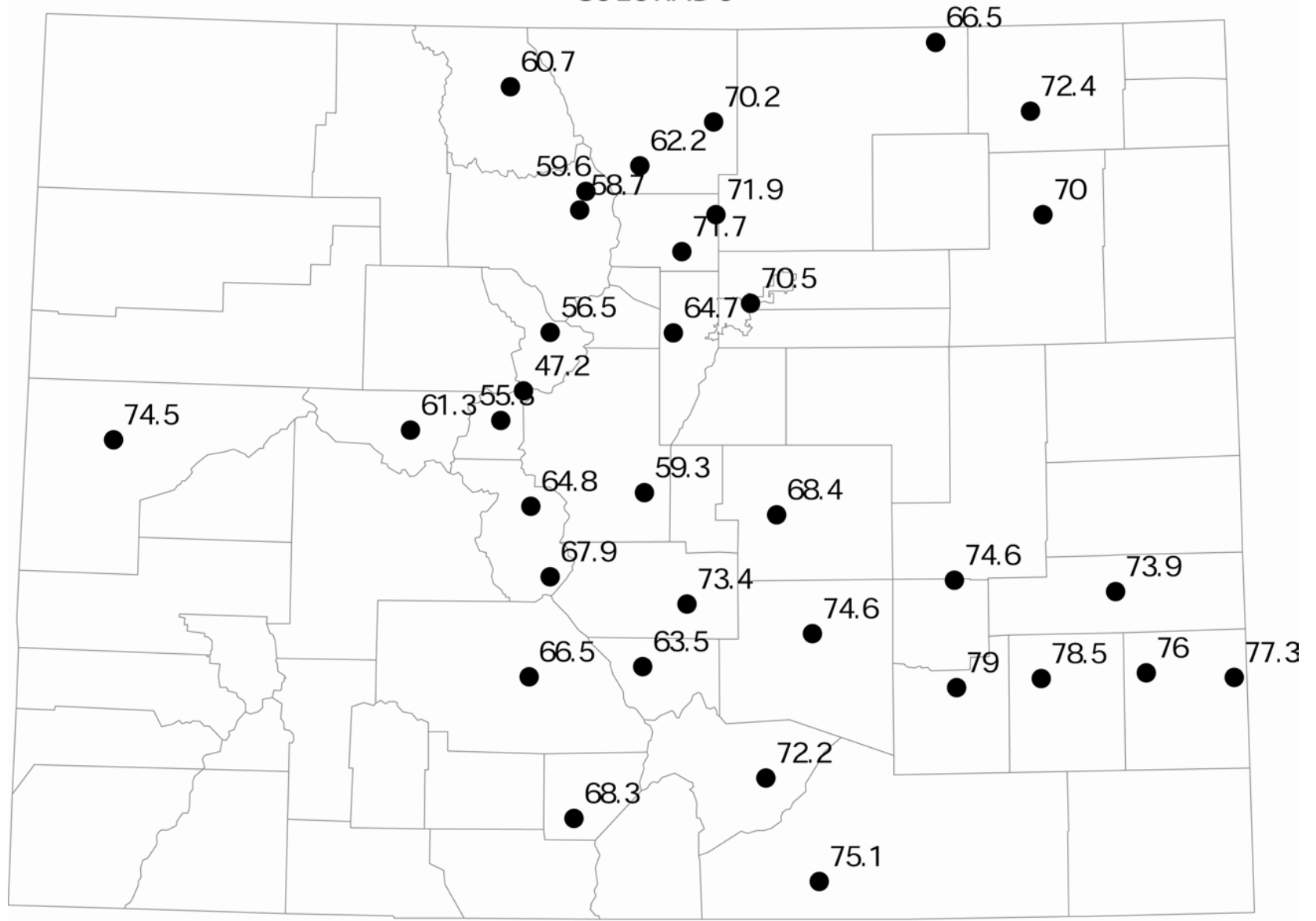


# Division 5 – Canon City

## Canon City 2004 Water Year (through Oct '03 - May '04)

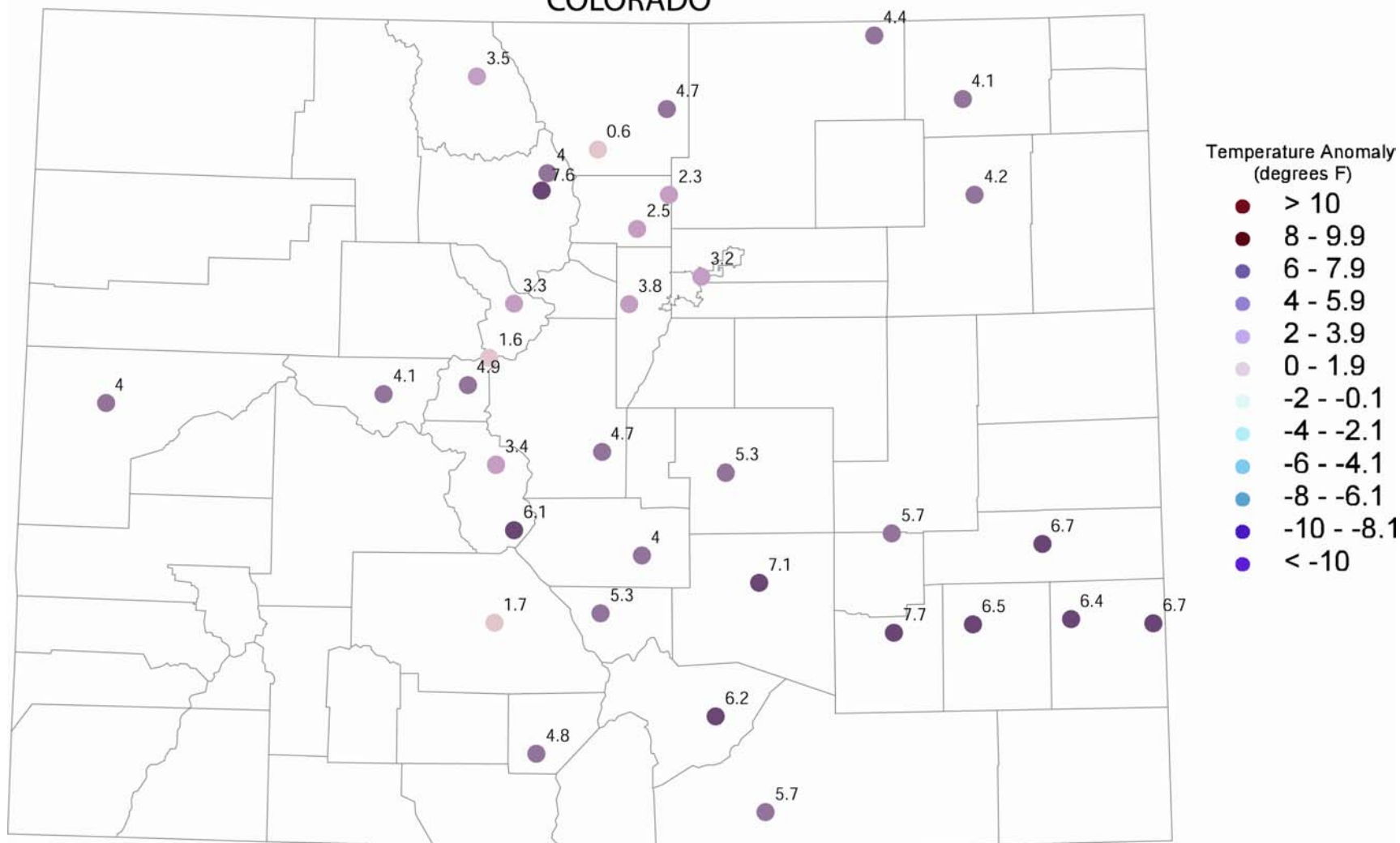


# COLORADO



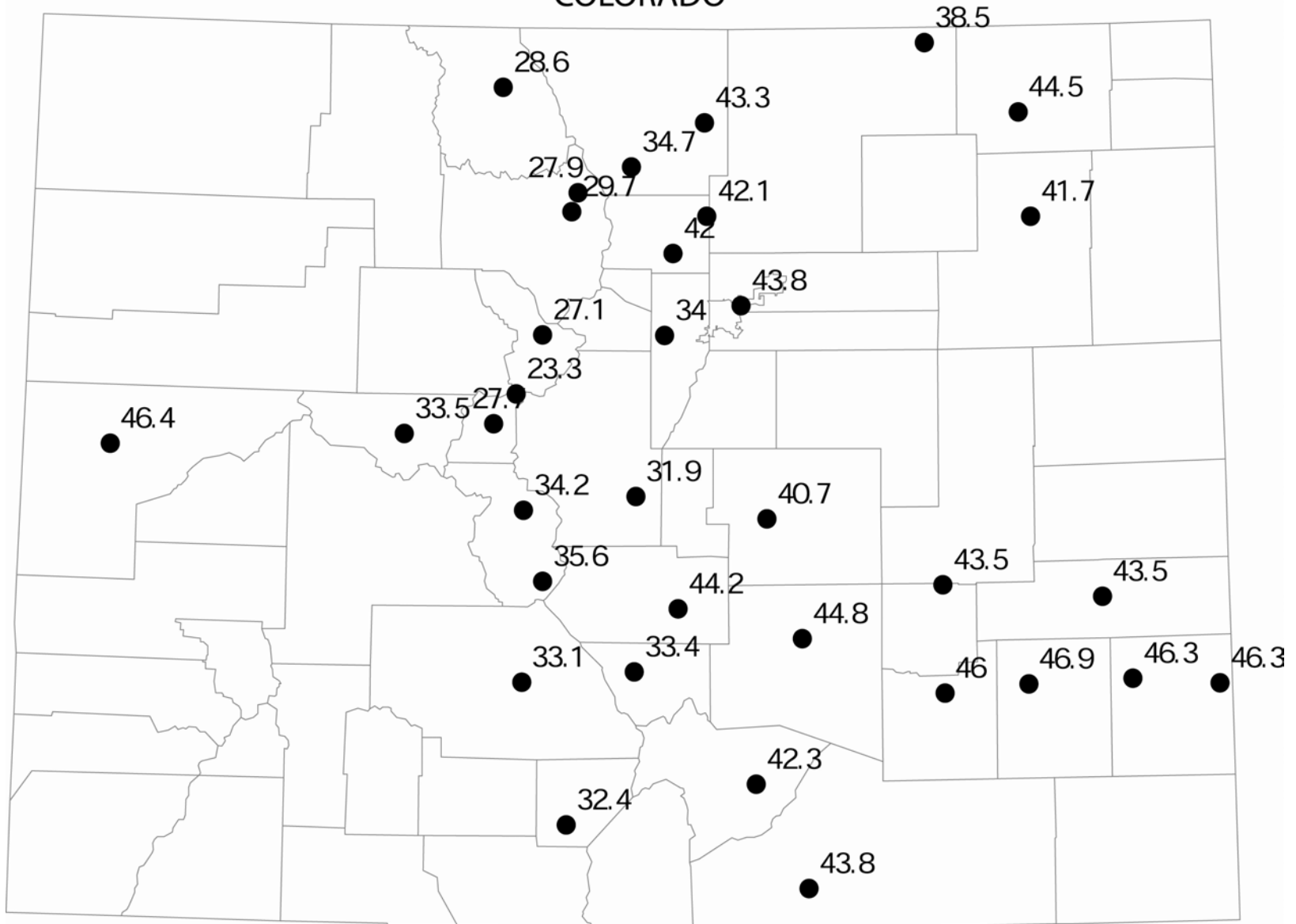
May maximum temperatures in degrees F (1971-2000 average).

# COLORADO



May 2004 maximum temperature departures from the 1971-2000 averages.

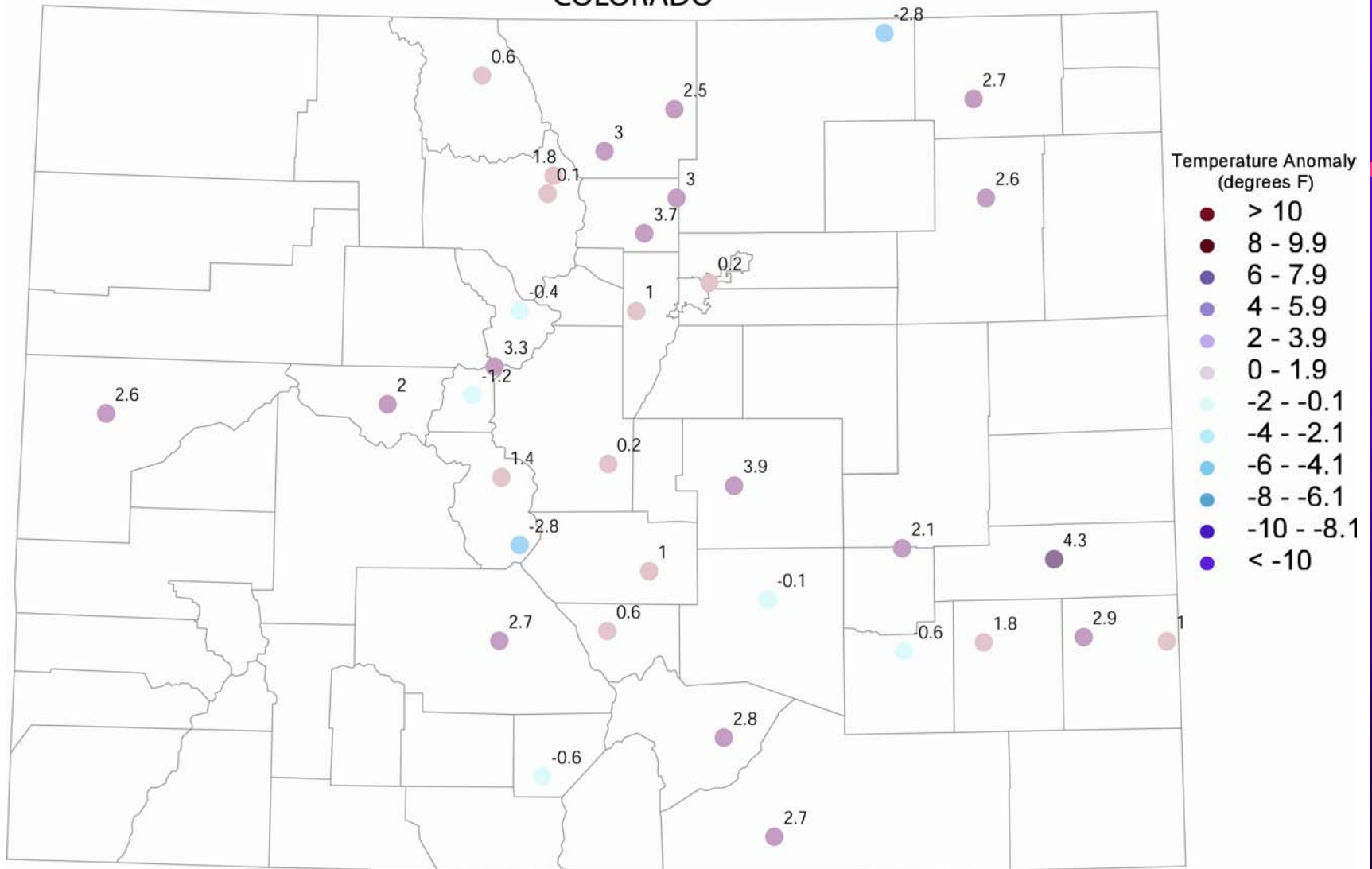
# COLORADO



May minimum temperatures in degrees F (1971-2000 average).

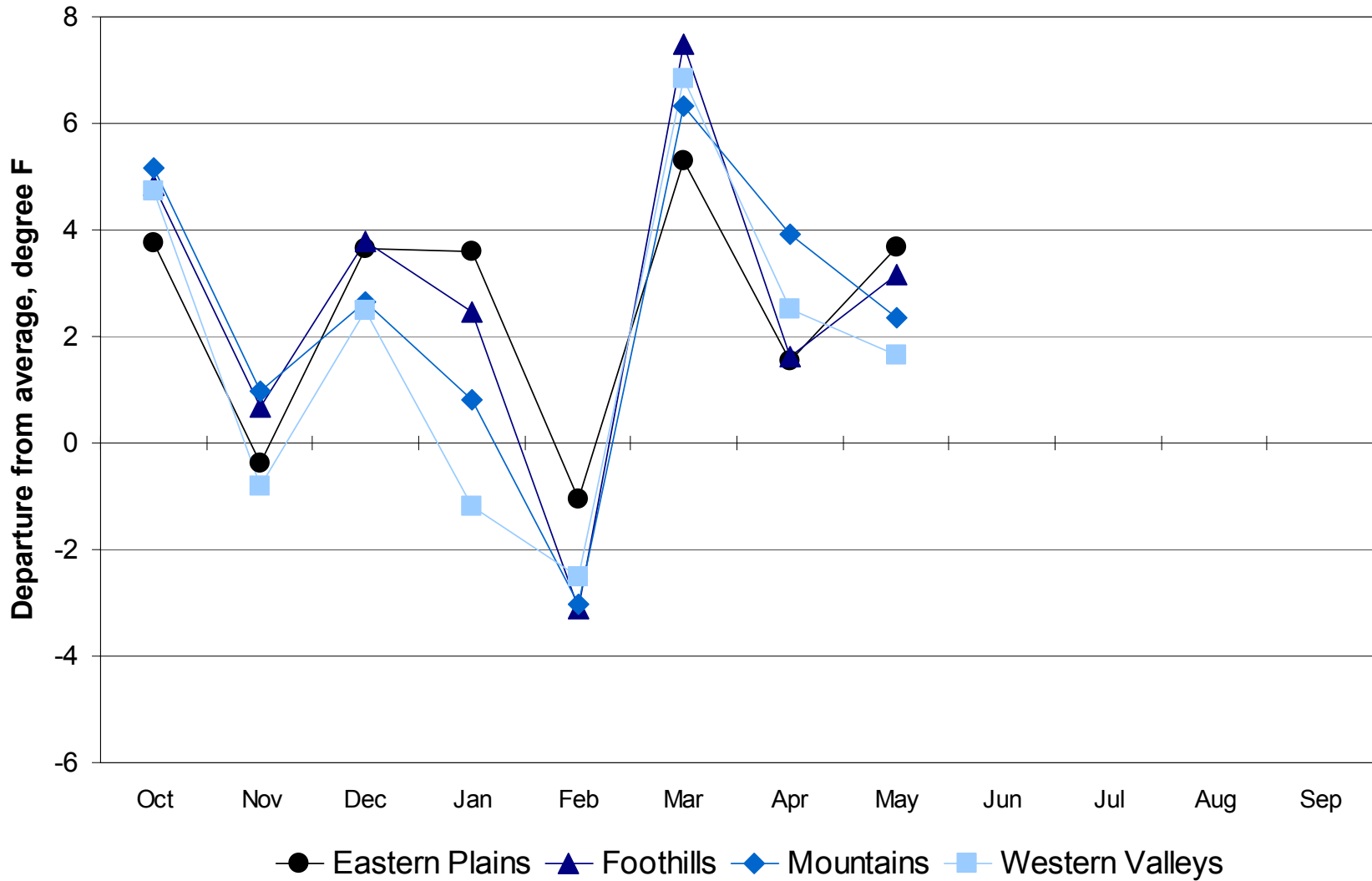


# COLORADO

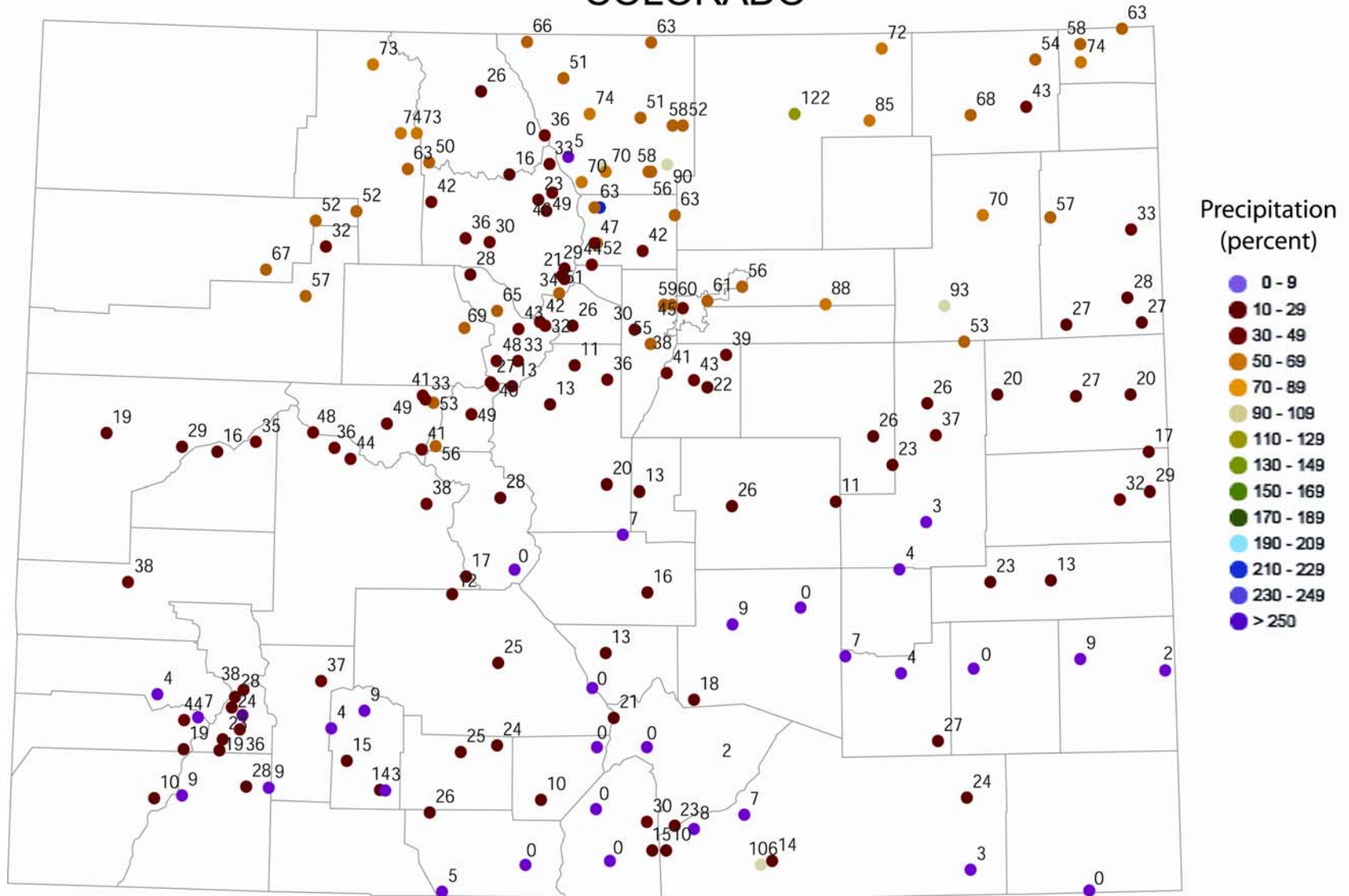


May 2004 minimum temperature departures from the 1971-2000 averages.

# Water Year 2004

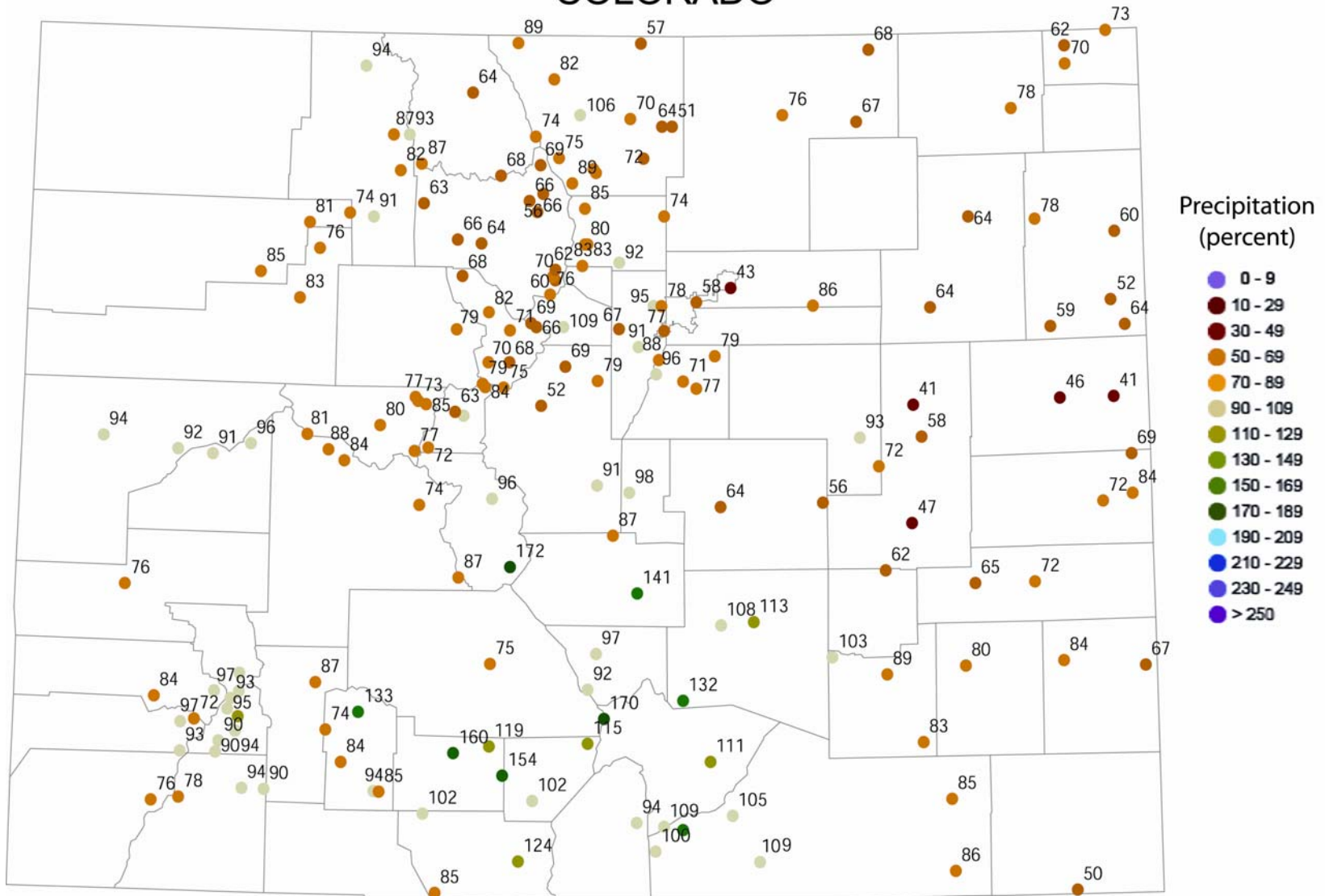


# COLORADO



May 2004 precipitation as a percent of the 1971-2000 average.

# COLORADO

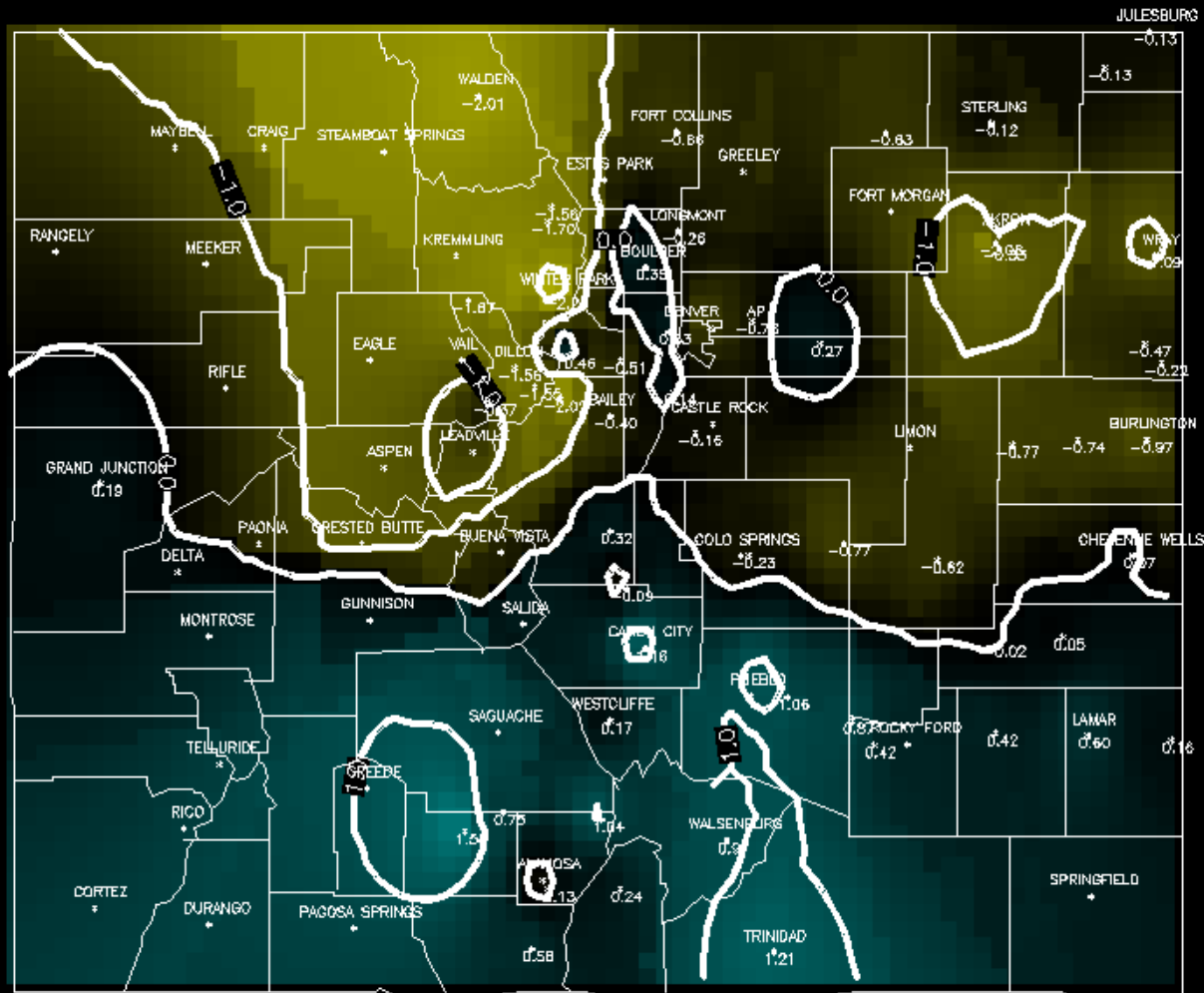


Water Year 2004 (October 2003 through May 2004) precipitation as a percent of the 1971-2000 average.

# 3 Month SPI

Colorado

5/2004 3 mon. SPI



100	% << 2.0	16	% < -1.0
86	% < 1.0	0	% < -2.0
53	% < 0.0	0	% < -3.0

Produced by:  
Colorado Climate Center  
Fort Collins, CO

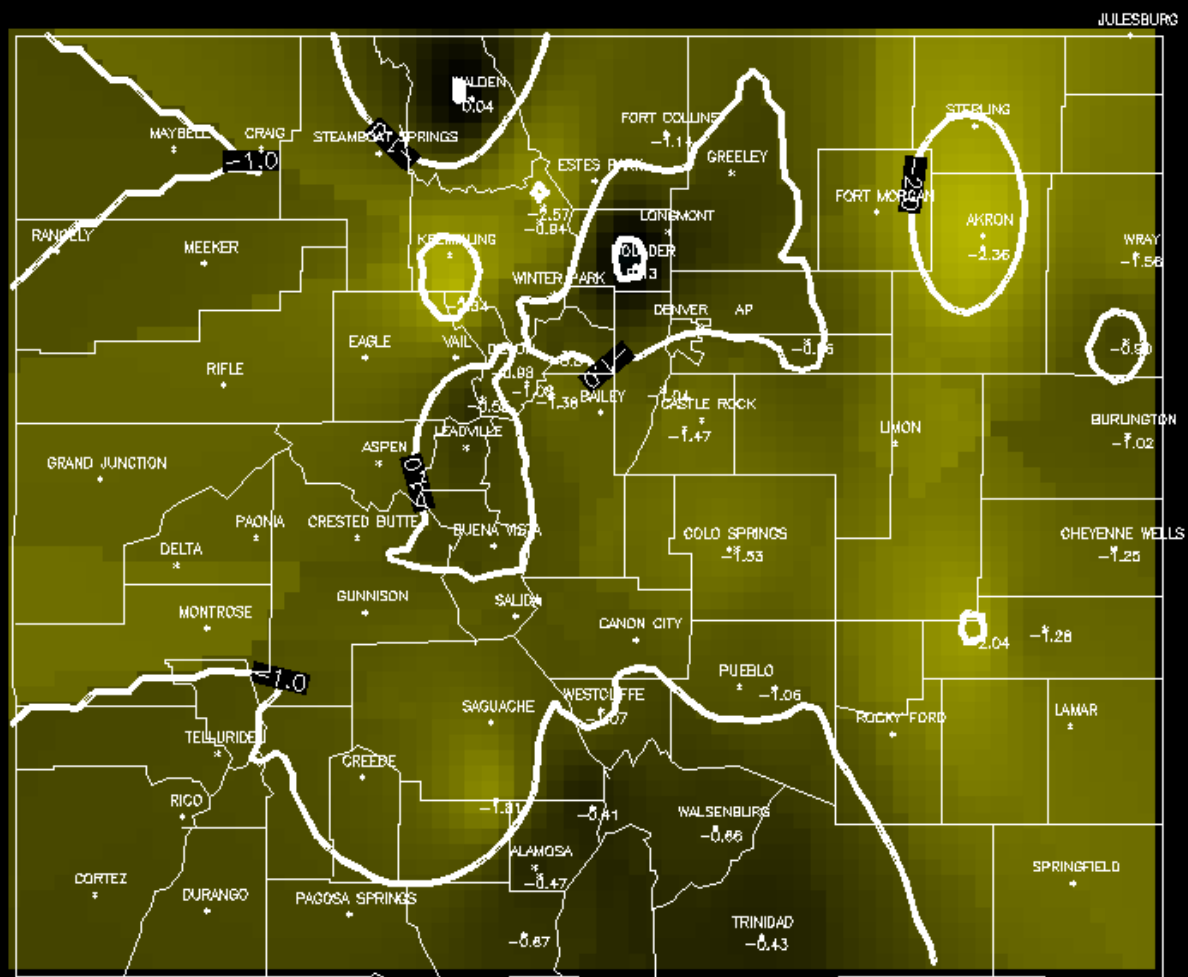




# 48 Month SPI

Colorado

5/2004 48 mon. SPI



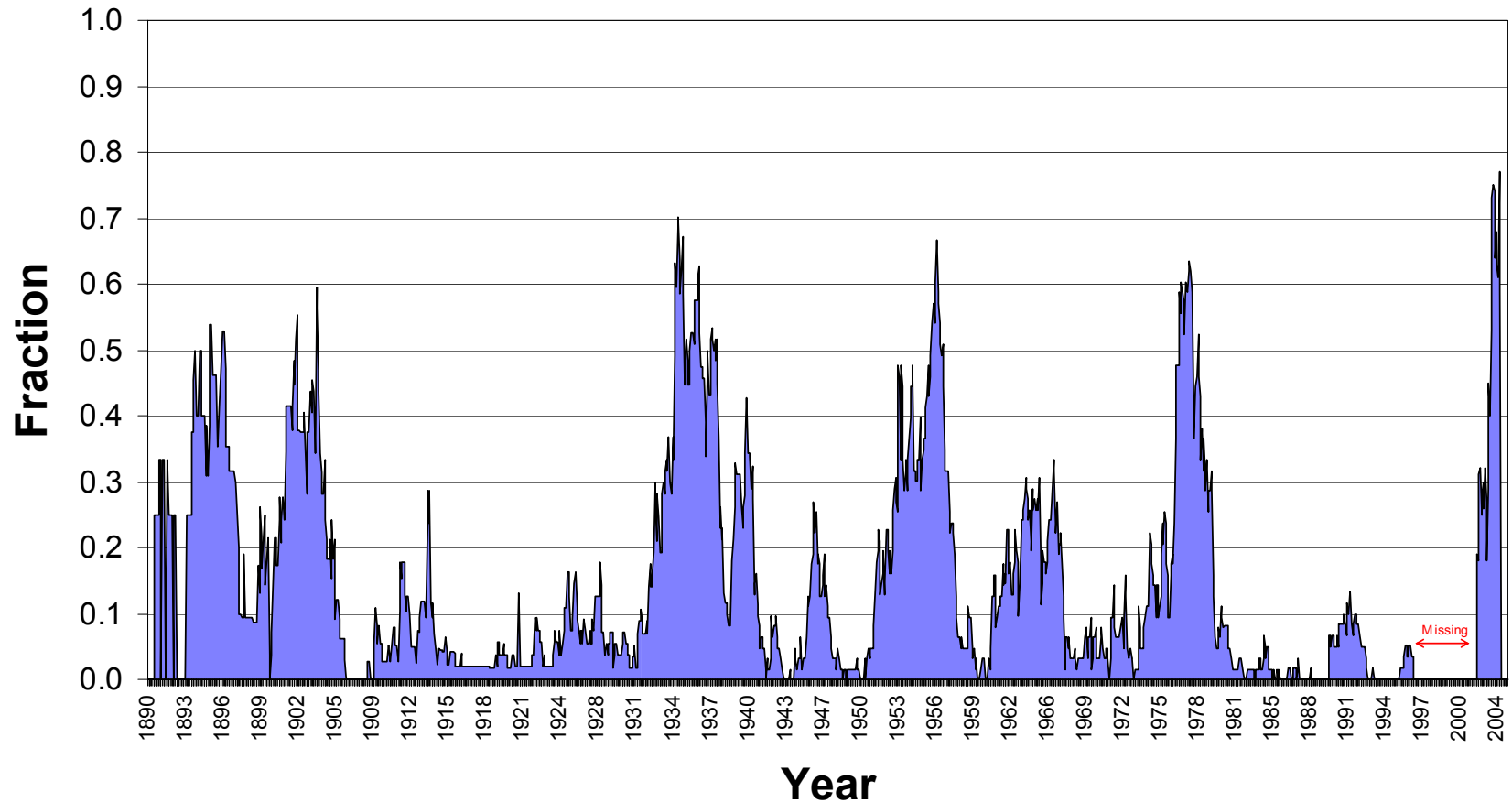
100% <<<< 2.0 70% <<< -1.0  
 100% <<<< 1.0 20% <<< -2.0  
 100% <<<< 0.0 0% <<< -3.0

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 Colorado Climate Center  
 Fort Collins, CO



# Fraction of Colorado in Drought

(Based on 48 Month SPI)

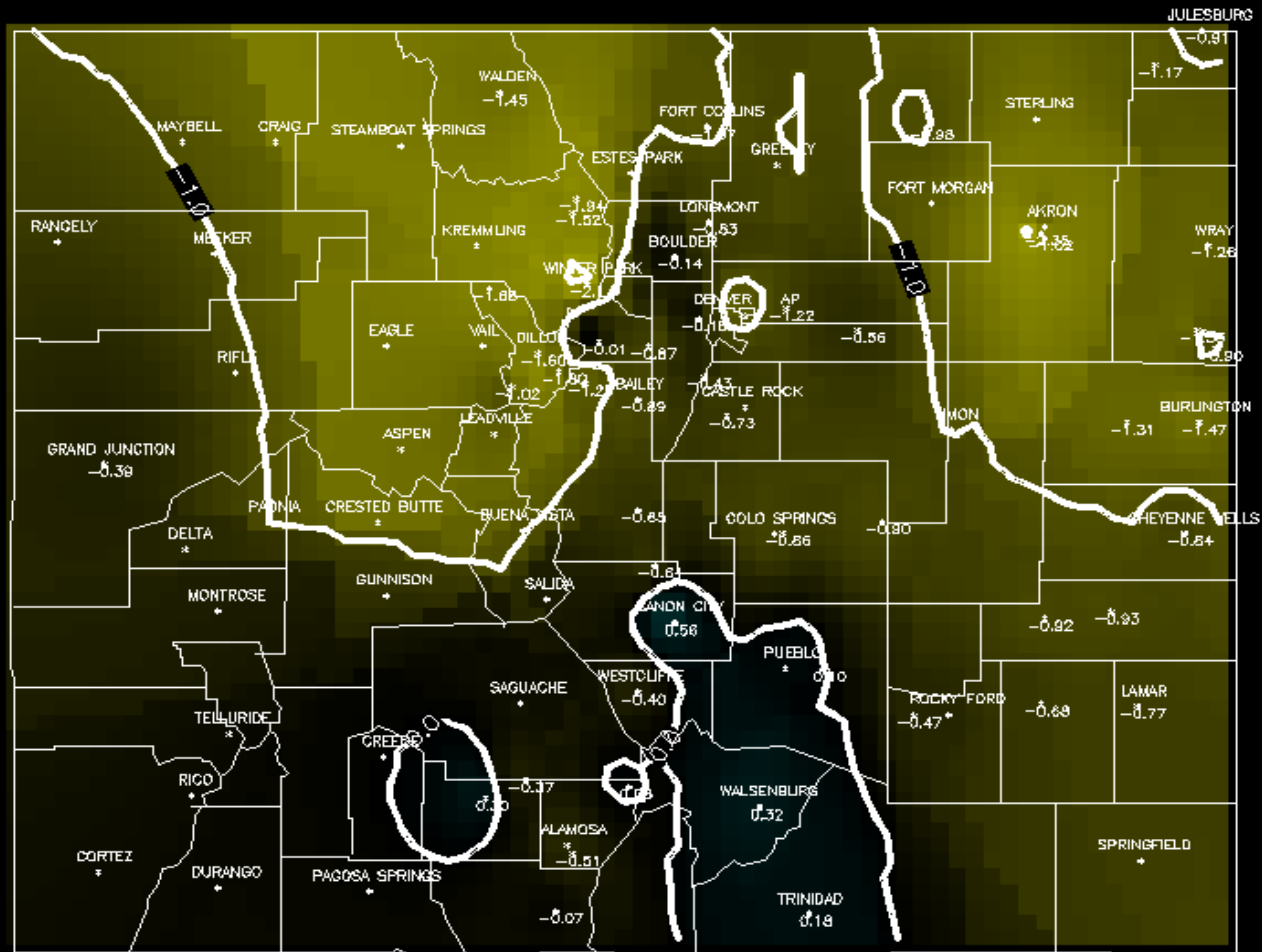


Caution: This graph is preliminary and should not be used for public presentation. Change in computation after 1996 and with some missing data.

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

Colorado

5/2004 12 mon. SPI – Projected 6 mon. at P=0.20

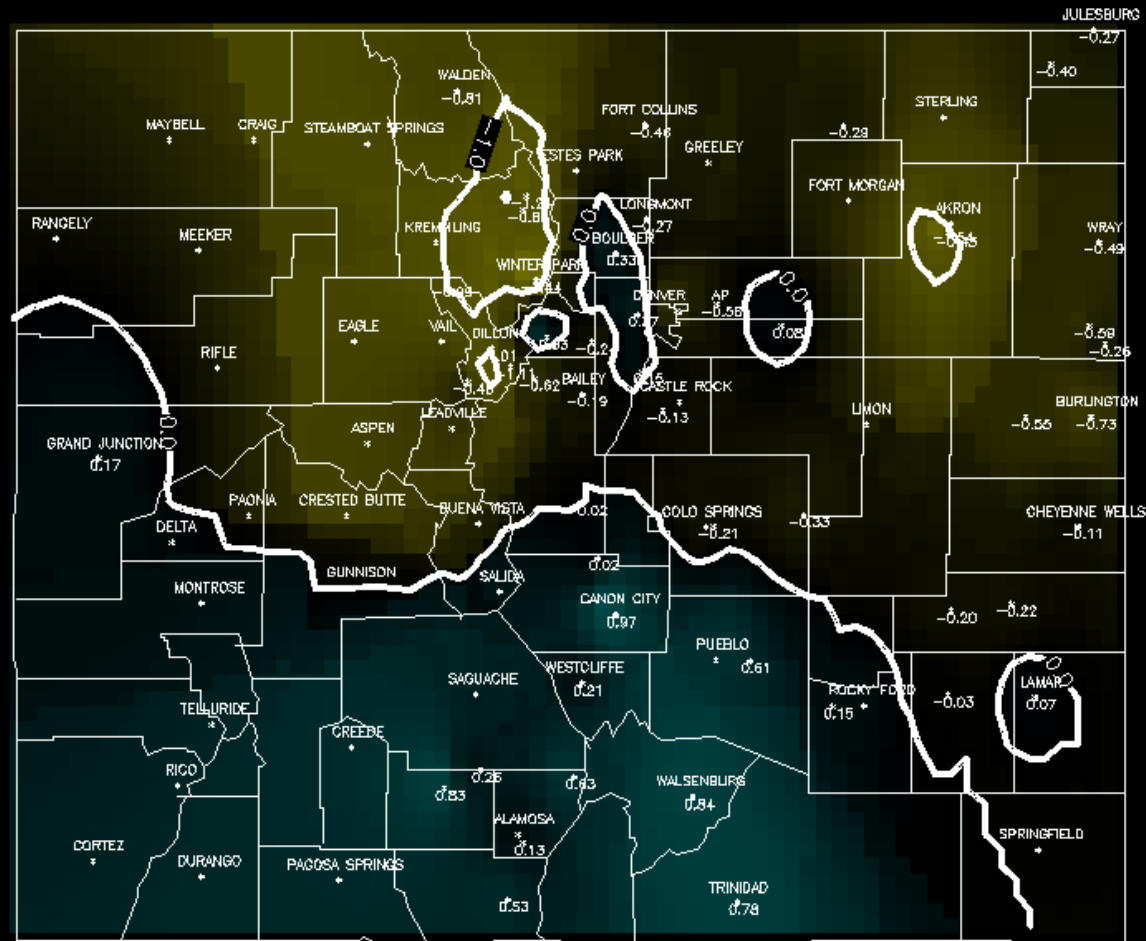


Produced by:  
Colorado Climate Center  
Fort Collins, CO

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

Colorado

5/2004 12 mon. SPI - Projected 6 mon. at P=0.50



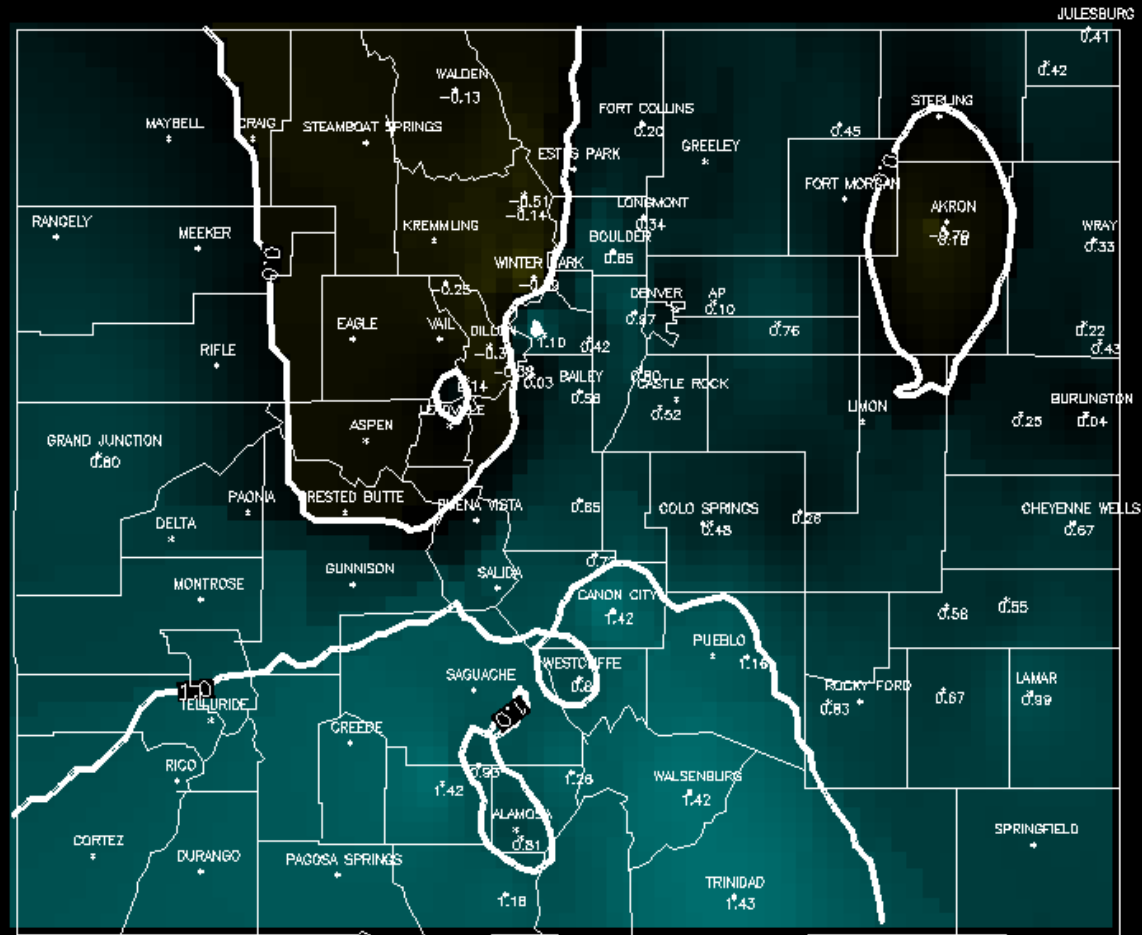
100% < 2.0  
100% < 1.0  
50% < 0.0  
2% < -1.0  
0% < -2.0  
0% < -3.0

Produced by:  
Colorado Climate Center  
Fort Collins, CO

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

Colorado

5/2004 12 mon. SPI – Projected 6 mon. at P=0.80



100% < 2.0  
75% < 1.0  
16% < 0.0

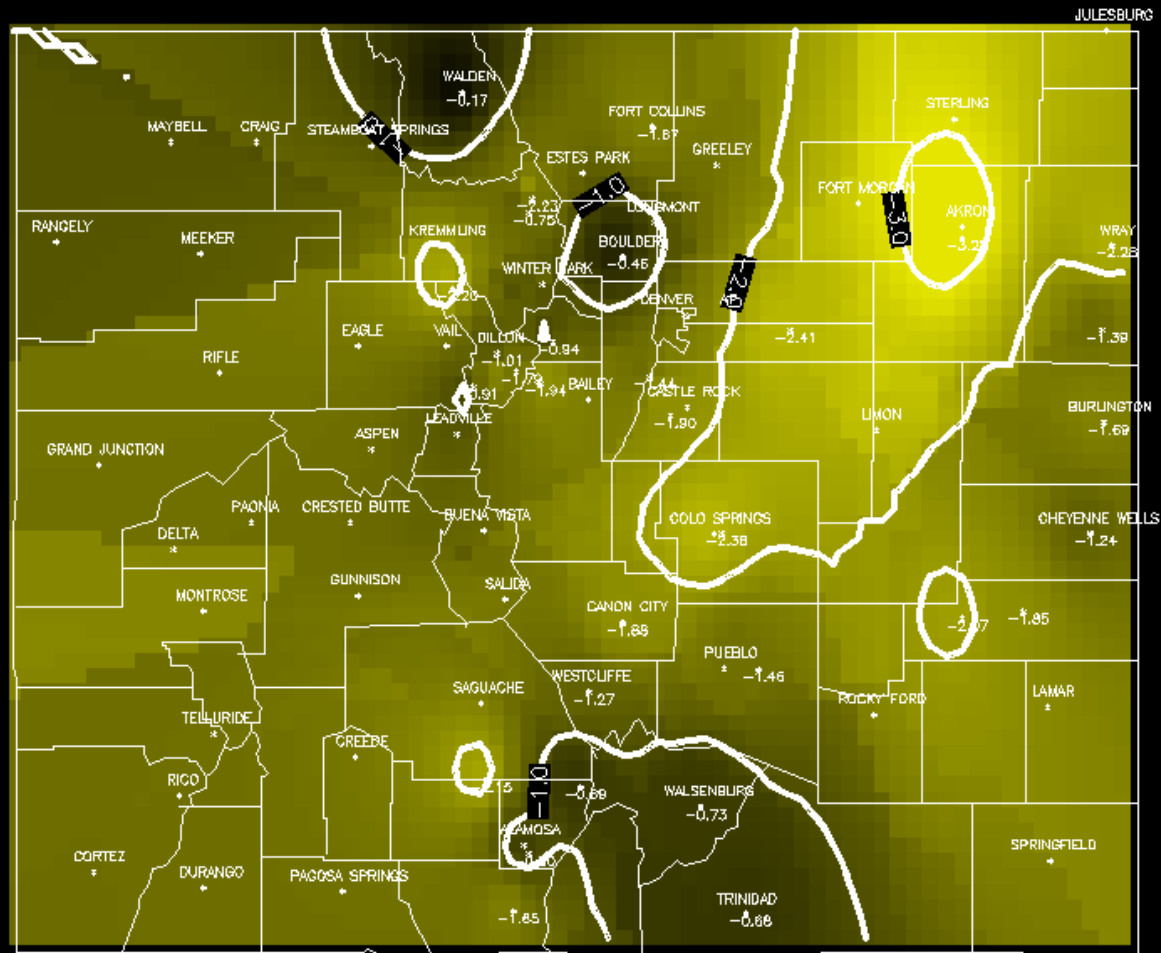
0% < -1.0  
0% < -2.0  
0% < -3.0

Produced by:  
Colorado Climate Center  
Fort Collins, CO

# Projected Conditions at 0.2 Probability Level 48 Month SPI at 12 months

Colorado

5/2004 48 mon. SPI – Projected 12 mon. at P=0.20



100 % < 2.0  
100 % < 1.0  
100 % < 0.0

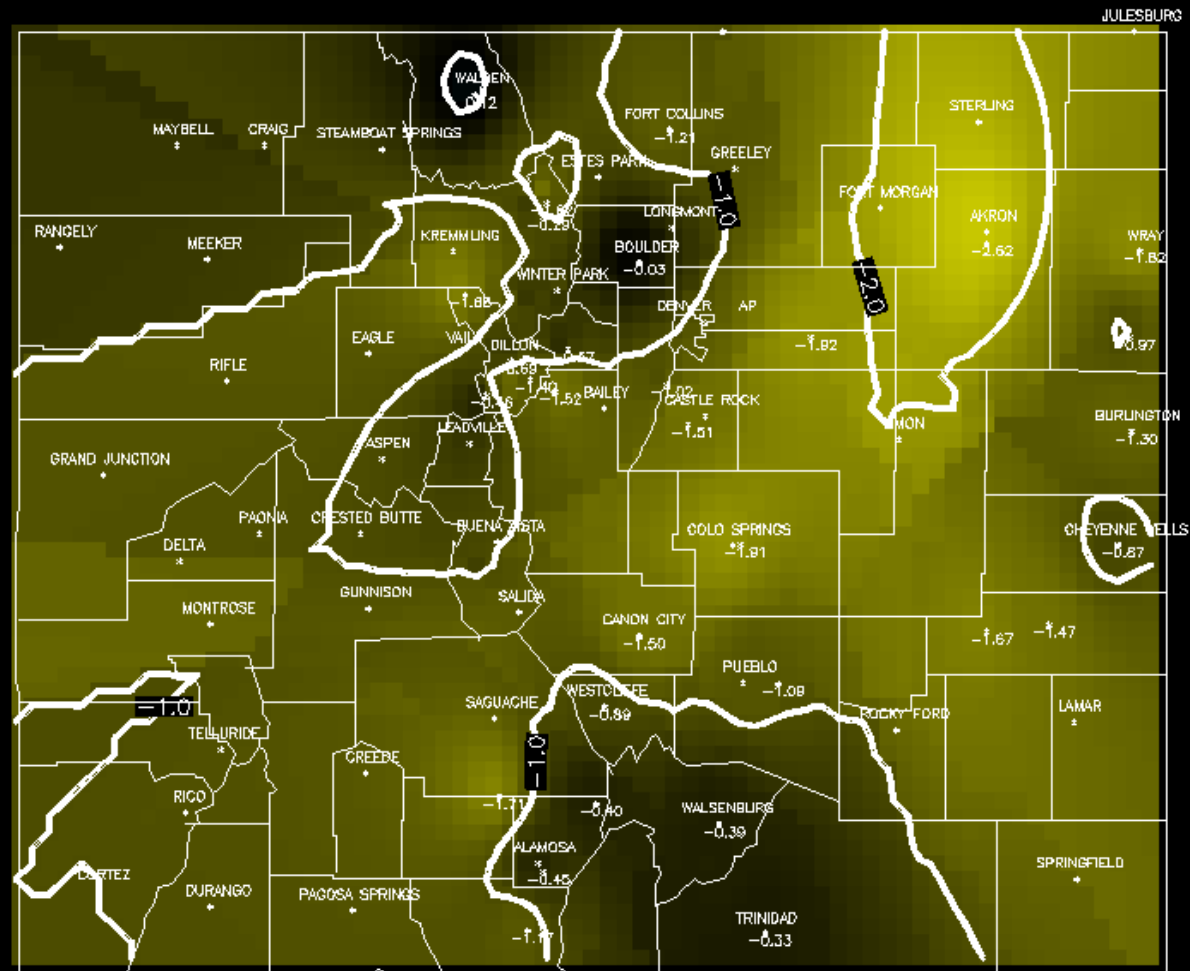
92 % < -1.0  
15 % < -2.0  
1 % < -3.0

Produced by:  
Colorado Climate Center  
Fort Collins, CO

# Projected Conditions at 0.5 Probability Level 48 Month SPI at 12 months

Colorado

5/2004 48 mon. SPI – Projected 12 mon. at P=0.50



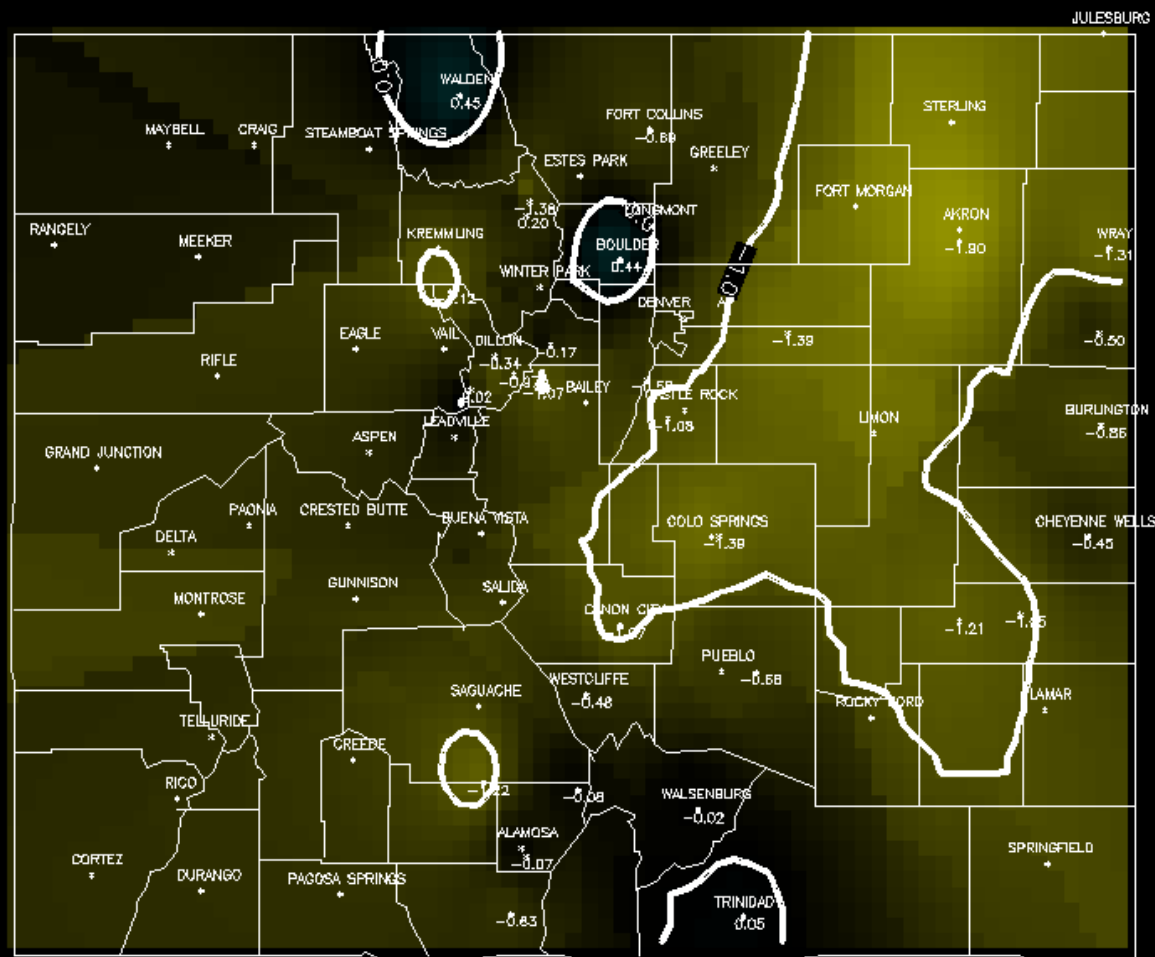
100% > 2.0 87% > -1.0  
 100% > 1.0 52% > -2.0  
 100% > 0.0 0% > -3.0

Produced by:  
 Colorado Climate Center  
 Fort Collins, CO

# Projected Conditions at 0.8 Probability Level 48 Month SPI at 12 months

Colorado

5/2004 48 mon. SPI – Projected 12 mon. at P=0.80



100 % < 2.0  
100 % < 1.0  
97 % < 0.0

22 % < -1.0  
0 % < -2.0  
0 % < -3.0

Produced by:  
Colorado Climate Center  
Fort Collins, CO

# Colorado Climate Center

## Colorado State University

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Data and Power Point Presentations available for downloading

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

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

