





Wendy Ryan Colorado Climate Center

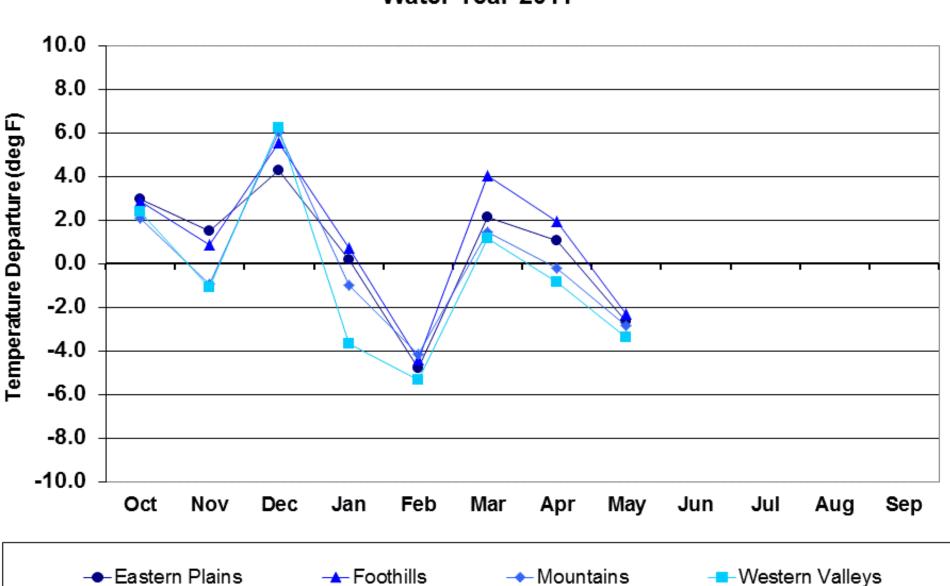
Atmospheric Science Department Colorado State University

Presented to Water Availability Task Force June 17th, 2011 Denver, CO

Prepared by Wendy Ryan

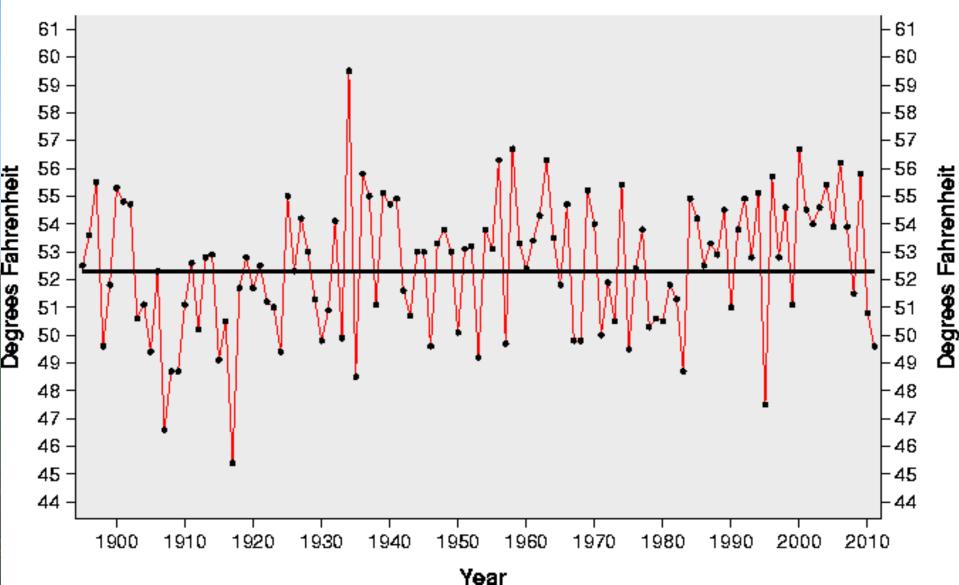
Water Year 2011 Temperature Departures

Water Year 2011

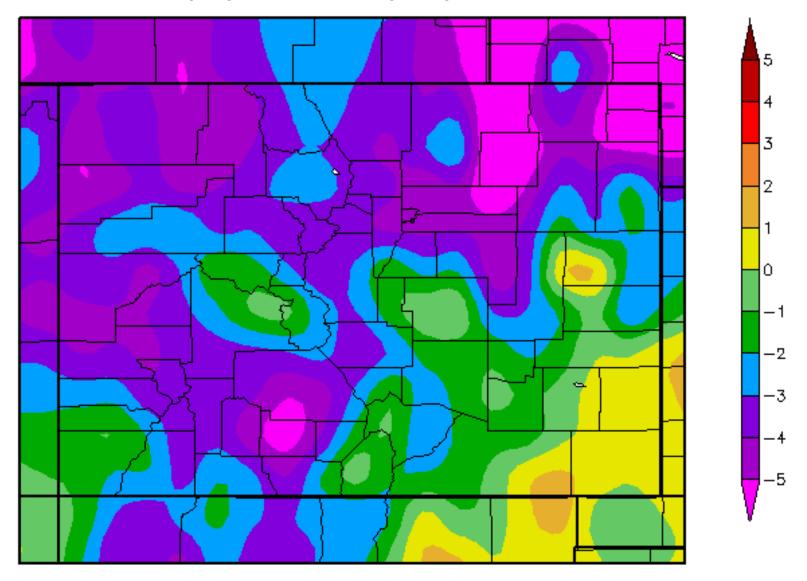


Actual Temperature
Average Temperature

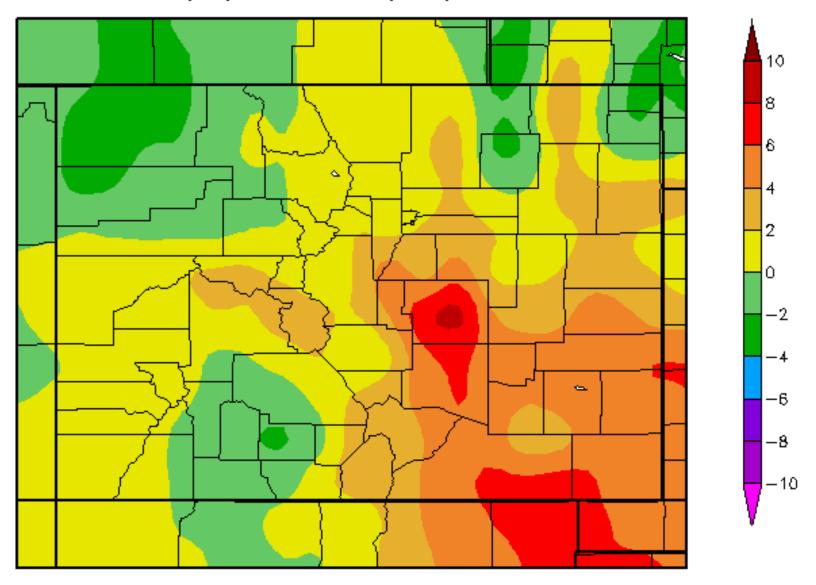
49.6 Degrees ranks 13th coolest for the period (1895-2011)



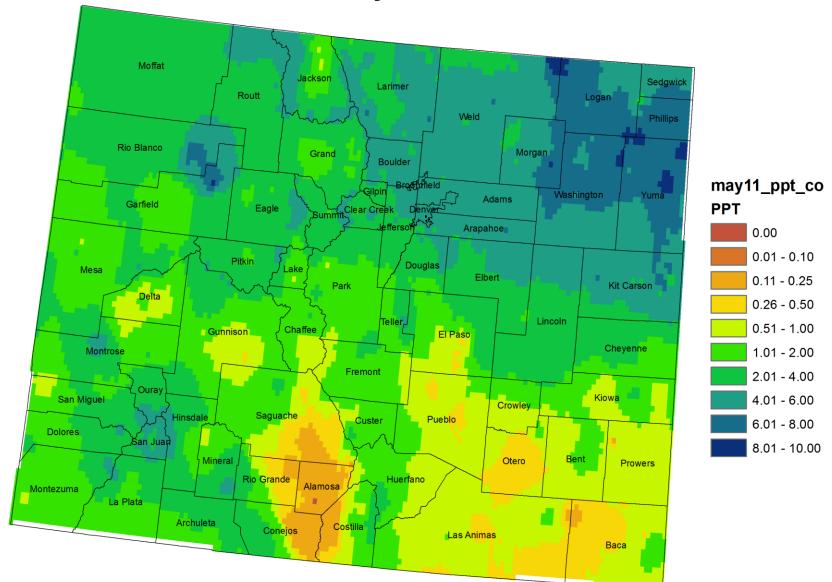
Departure from Normal Temperature (F) 5/1/2011 - 5/31/2011



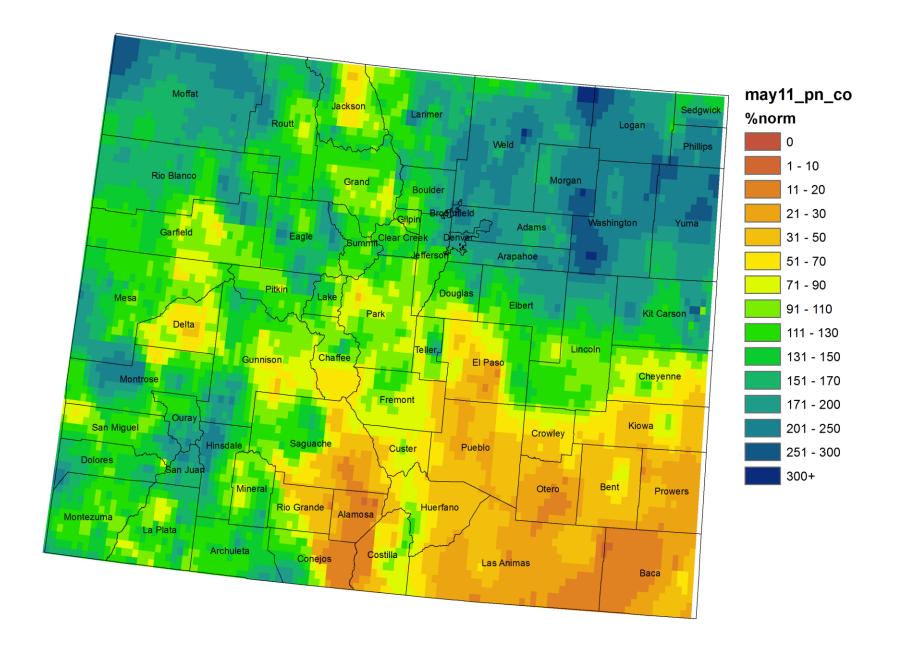
Departure from Normal Temperature (F) 6/1/2011 - 6/15/2011



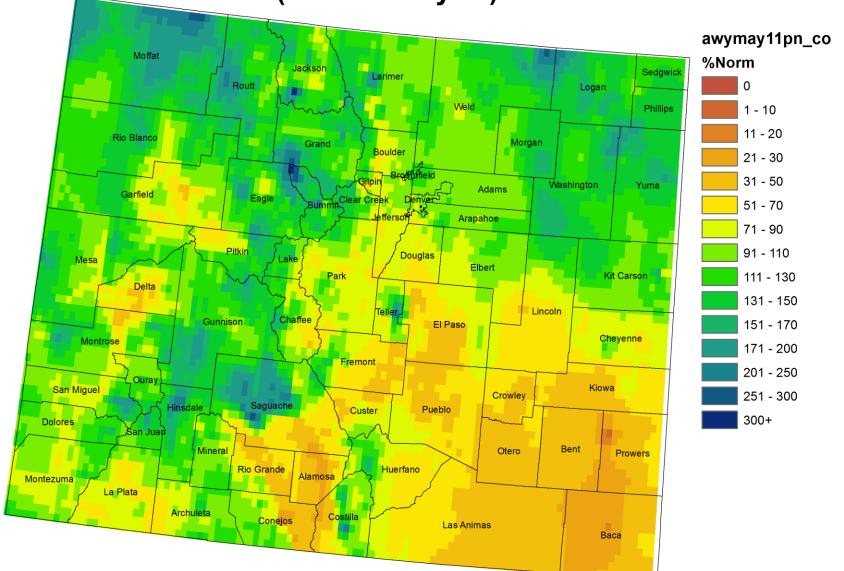
Colorado Precipitation (in) May 2011



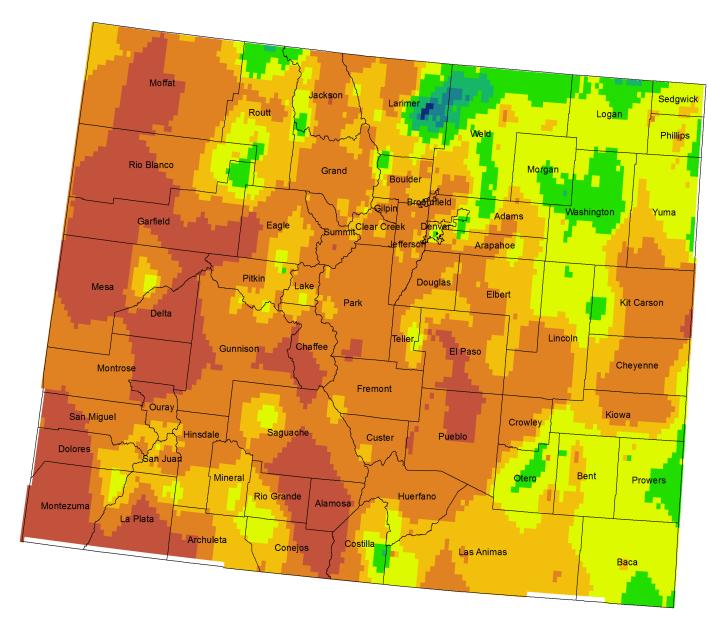
Colorado May 2011 Precipitation as Percentage of Normal

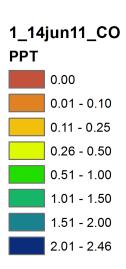


Colorado Water Year 2011 Precipitation As Percentage of Normal (Oct 10 - May 11)

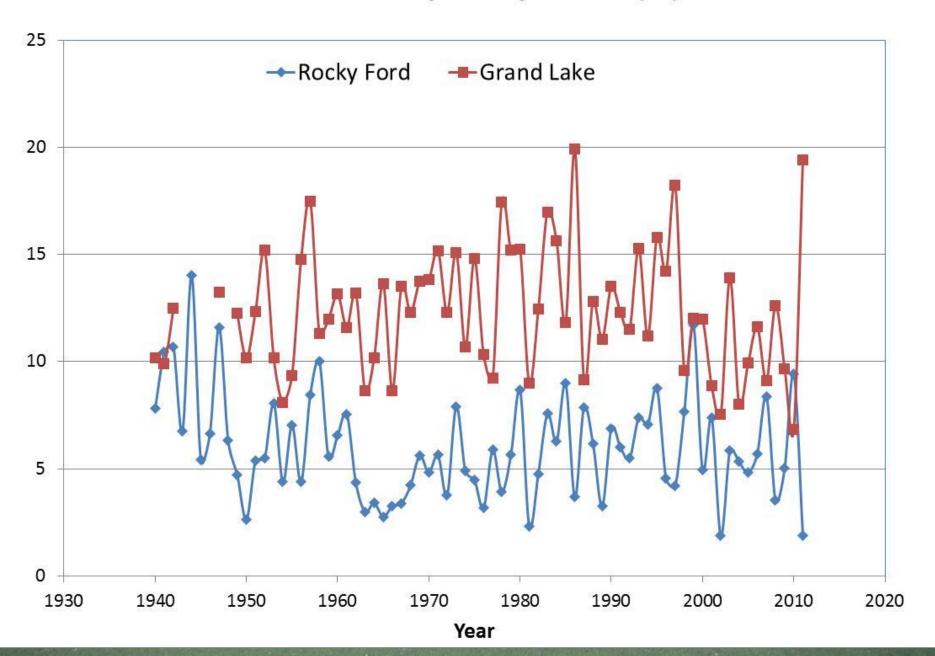


Colorado Precipitation (in) 1 -14 June 2011

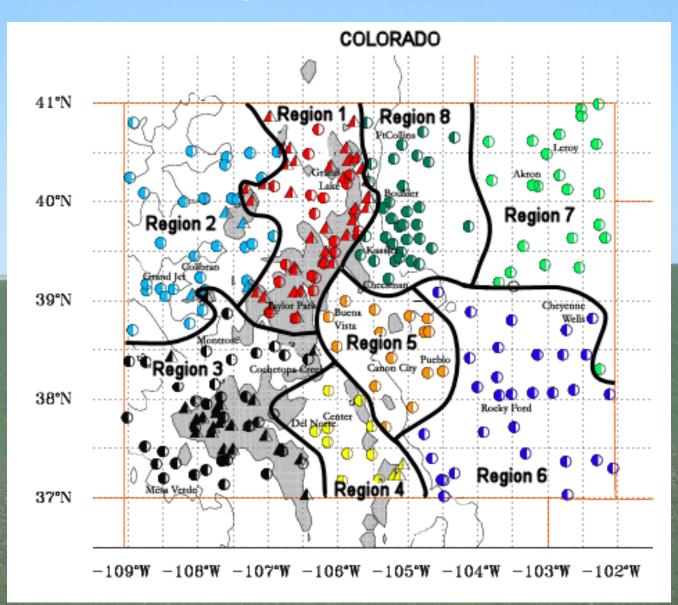




October - May Precipitation (in)

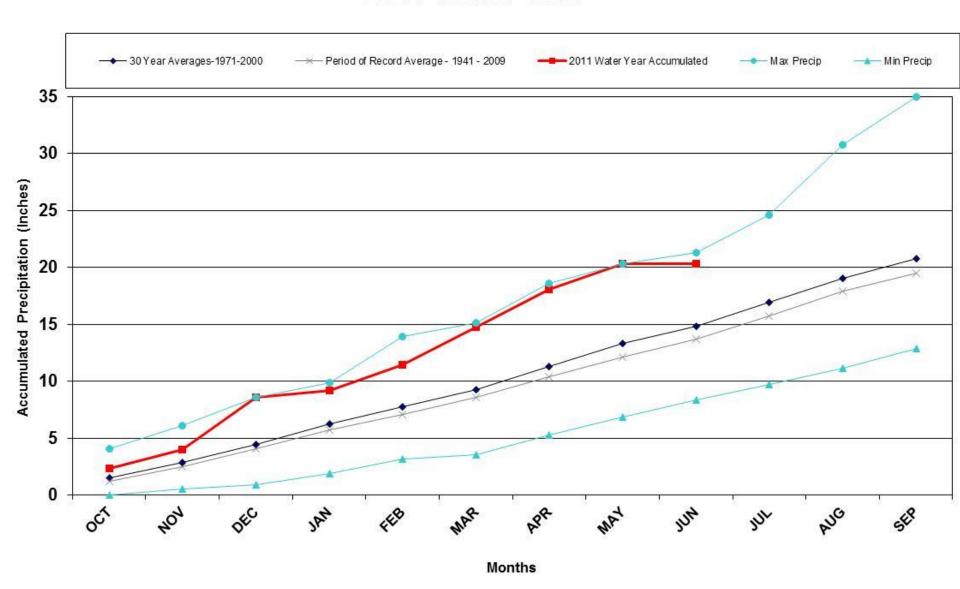


Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO



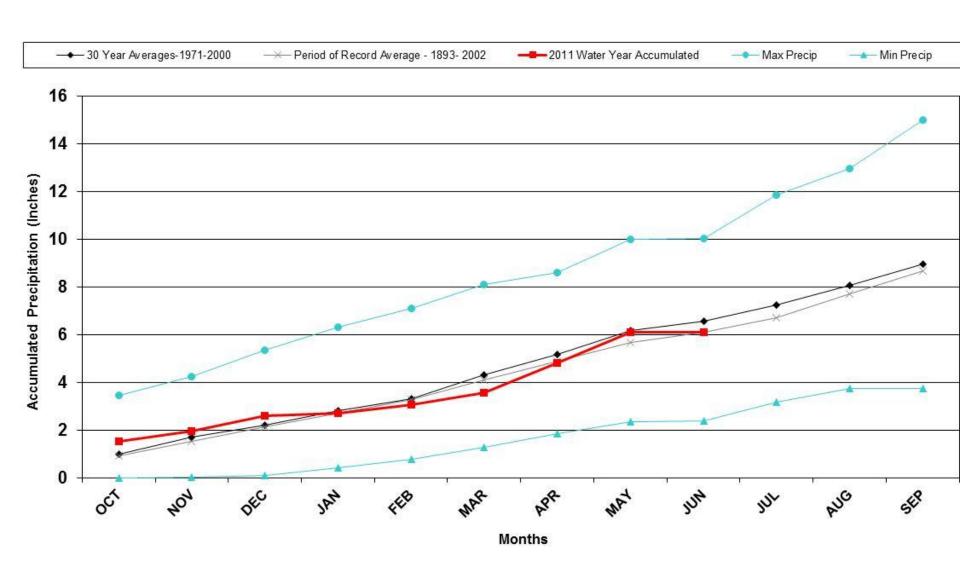
Division 1 – Grand Lake 1NW

Grand Lake 1 NW 2011 Water Year



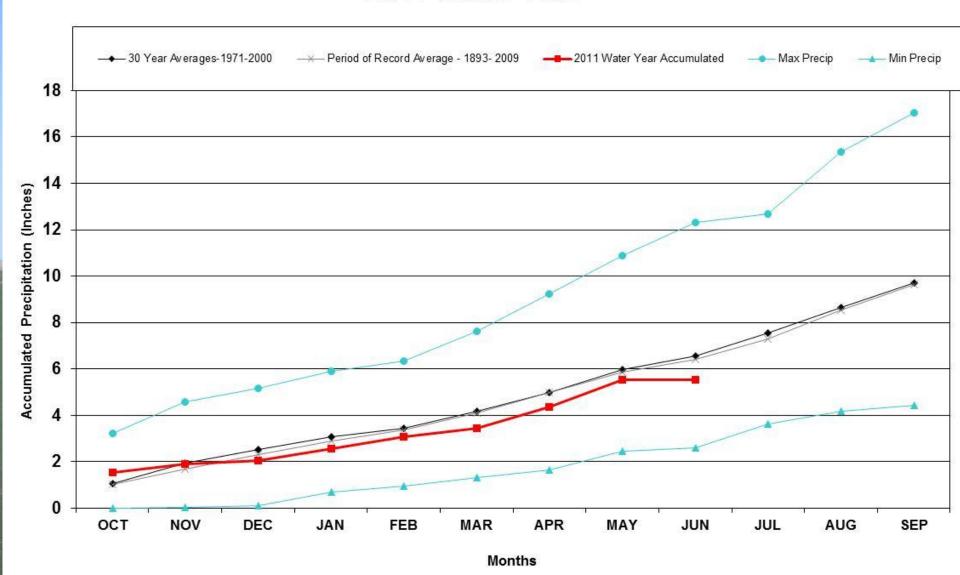
Division 2 – Grand Junction

Grand Junction WSFO 2011 Water Year



Division 3 – Montrose

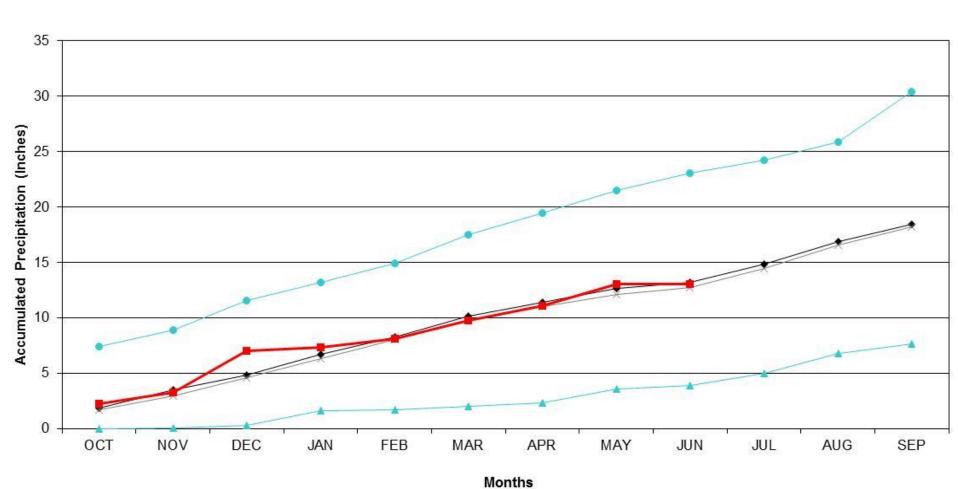
Montrose #2 2011 Water Year



Division 3 – Mesa Verde NP

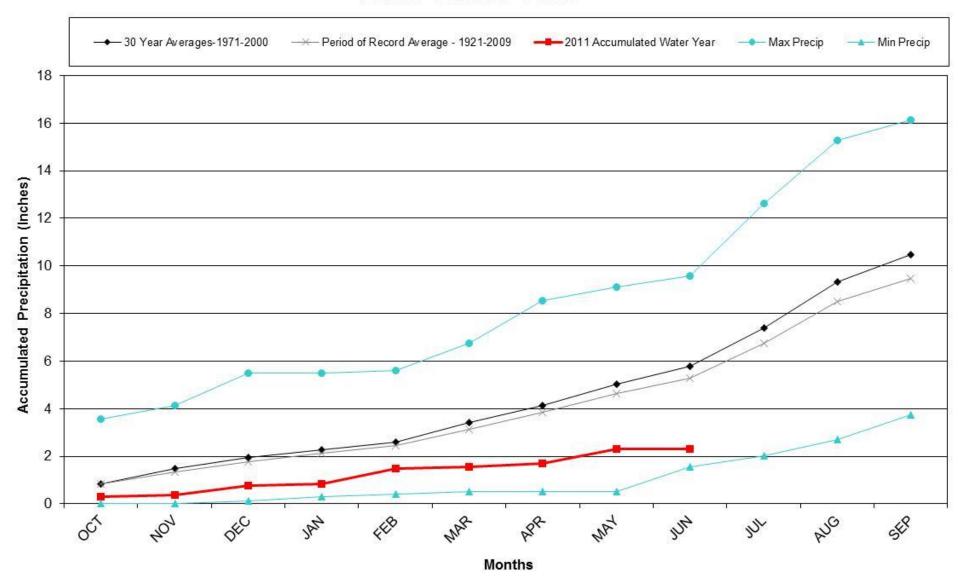
Mesa Verde NP 2011 Water Year





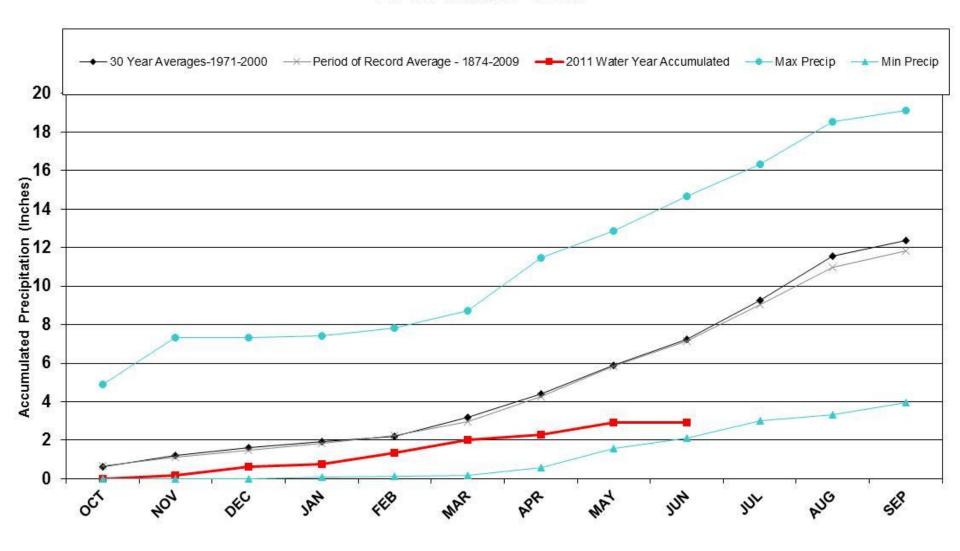
Division 4 – Del Norte

Del Norte 2011 Water Year



Division 5 – Pueblo

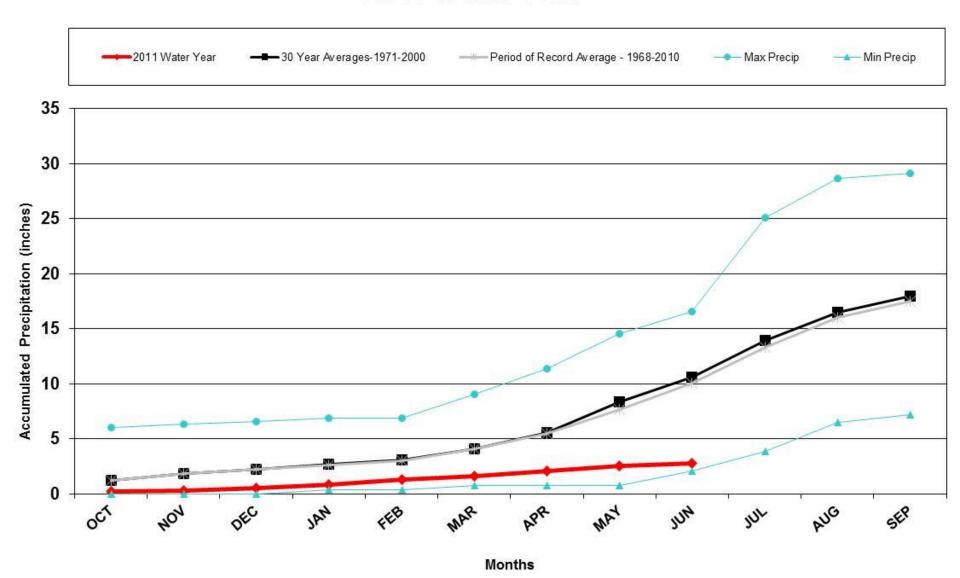
Pueblo WSO 2011 Water Year



Months

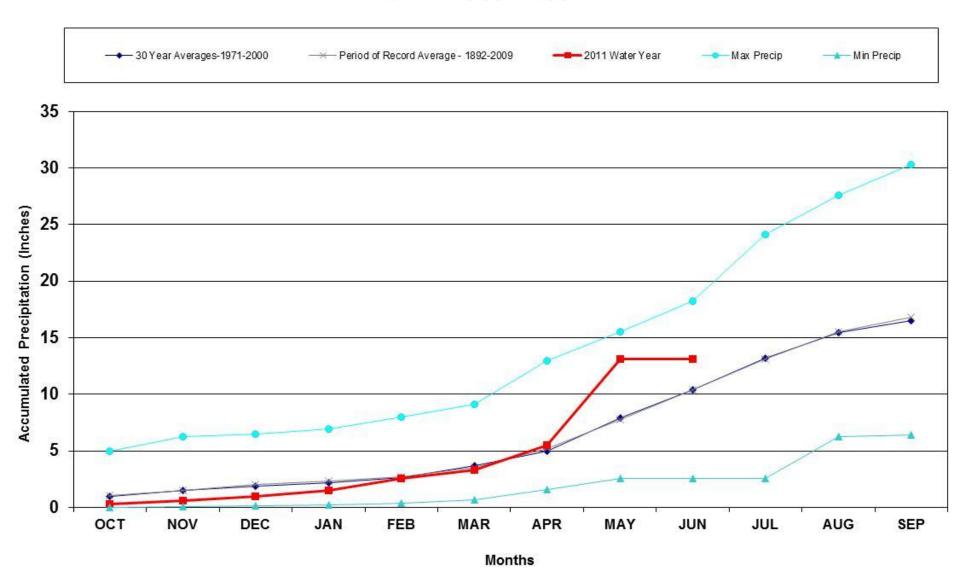
Division 6 - Walsh

Walsh 2011 Water Year



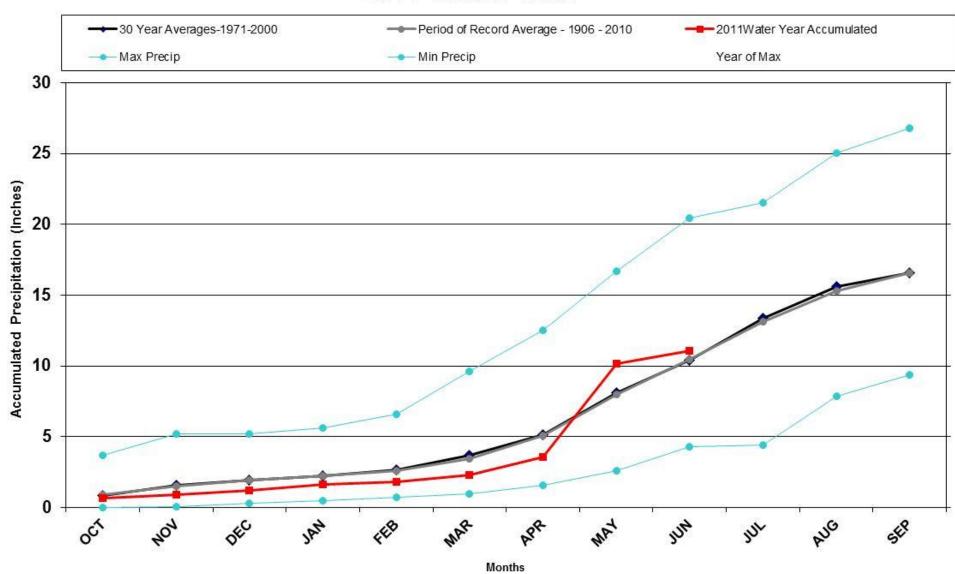
Division 6 - Burlington

Burlington 2011 Water Year



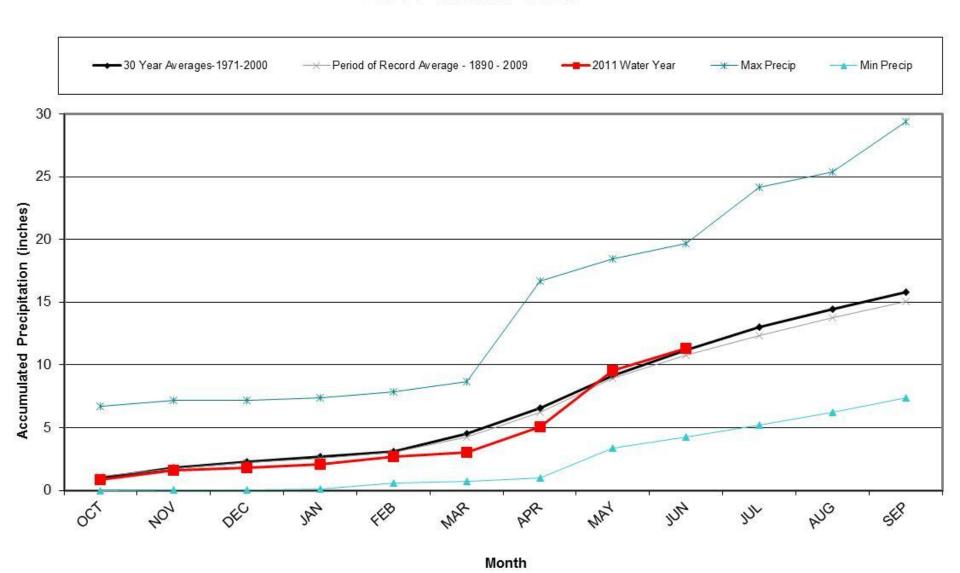
Division 7 – Akron

Akron 4E 2011 Water Year



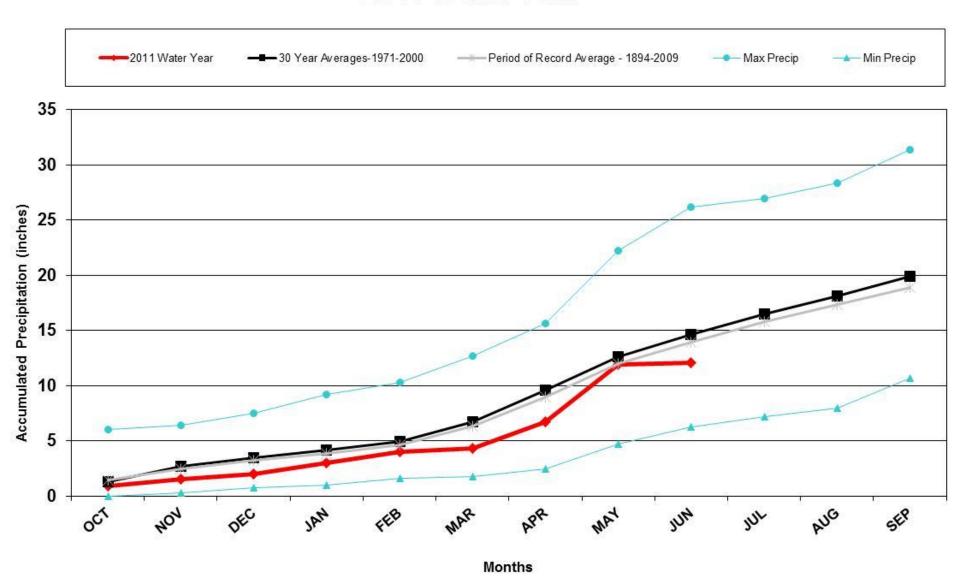
Division 8 – Fort Collins

Fort Collins 2011 Water Year



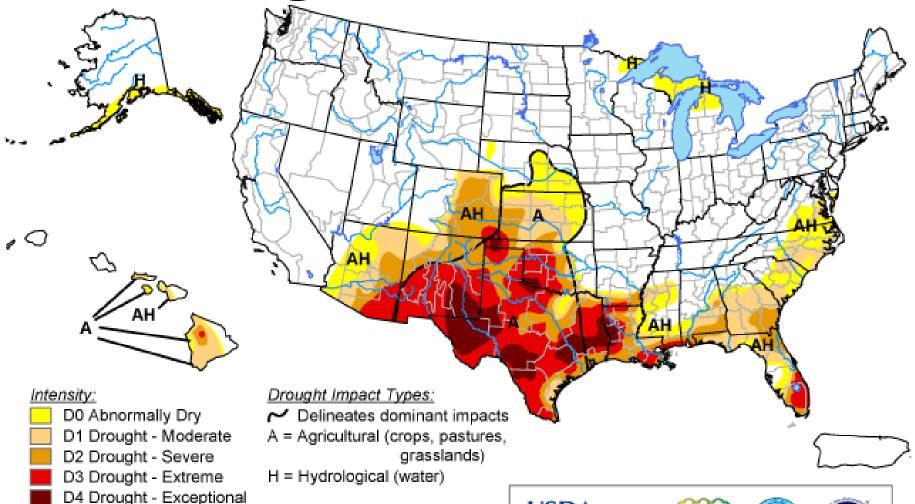
Division 8 - Boulder

Boulder 2011 Water Year



U.S. Drought Monitor

May 3, 2011



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://drought.unl.edu/dm





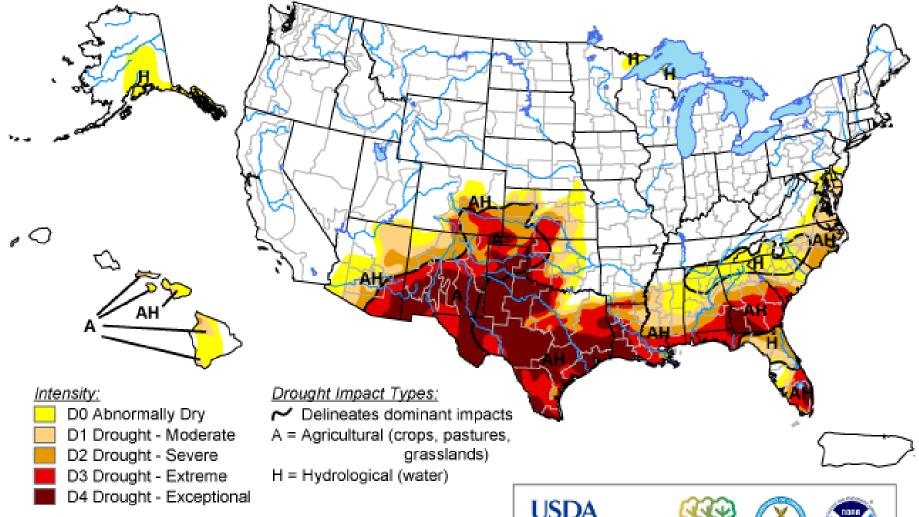




Released Thursday, May 5, 2011 Author: Rich Tinker, NOAA/NWS/NCEP/CPC

U.S. Drought Monitor

June 14, 2011



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.









Released Thursday, June 16, 2011 Author: Brian Fuchs, National Drought Mitigation Center

U.S. Drought Monitor

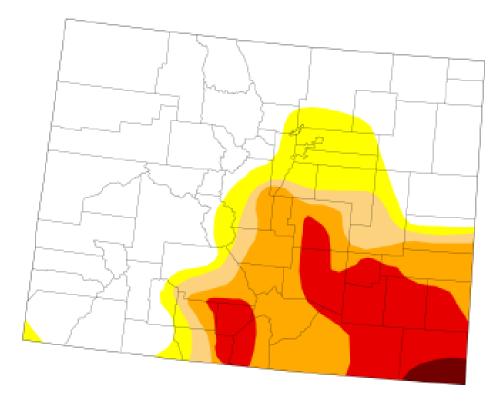
June 14, 2011

Valid 7 a.m. EST

Colorado

Drought Conditions (Percent Area)

	accomplished a second to a sec					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	58.84	41.16	31.89	26.50	13.01	0.91
Last Week (06/07/2011 map)	59.67	40.33	31.89	25.19	9.62	0.91
3 Months Ago (03/15/2011 map)	41.65	58.35	51.50	35.33	0.00	0.00
Start of Calendar Year (12/28/2010 map)	40.40	59.60	49.57	10.13	0.00	0.00
Start of Water Year (09/28/2010 map)	28.86	71.14	10.70	0.00	0.00	0.00
One Year Ago (06/08/2010 map)	81.04	18.96	0.25	0.00	0.00	0.00



Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



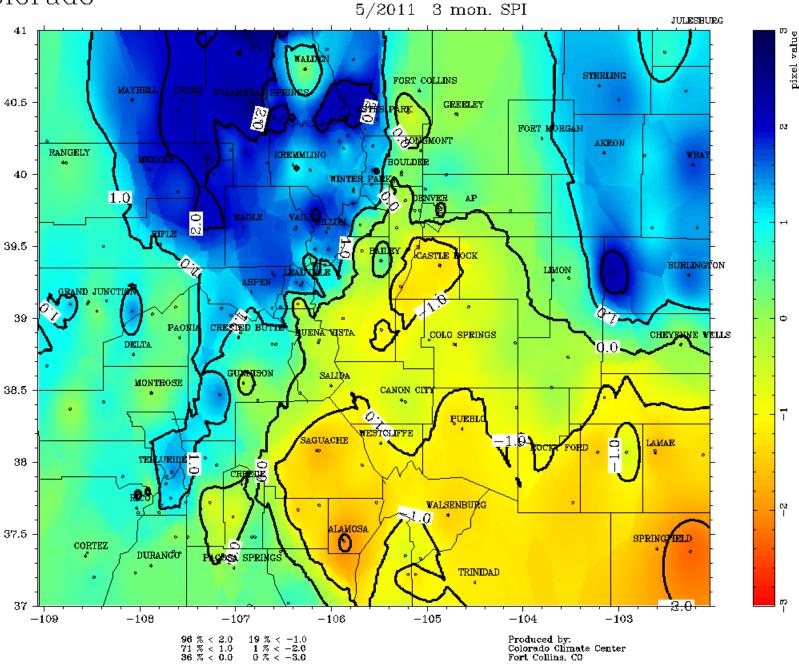




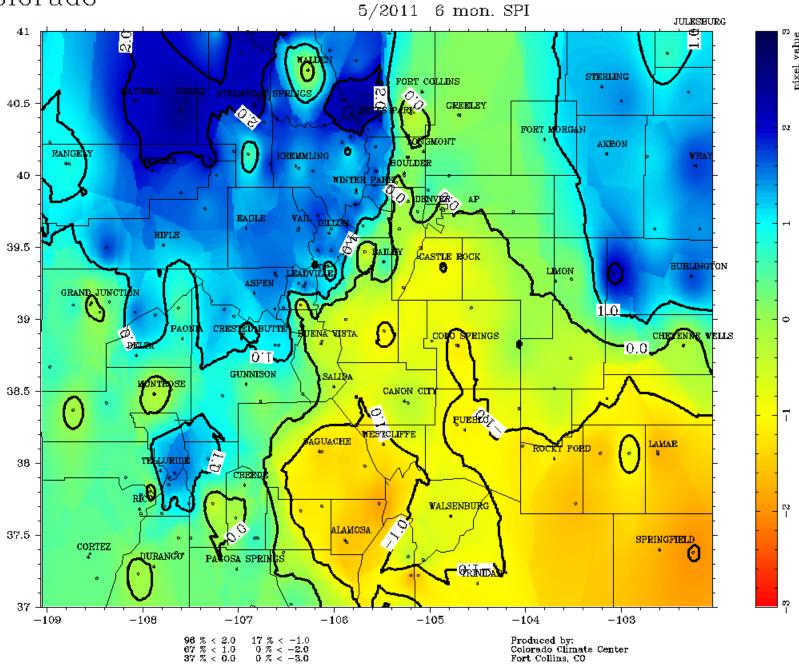


http://drought.unl.edu/dm

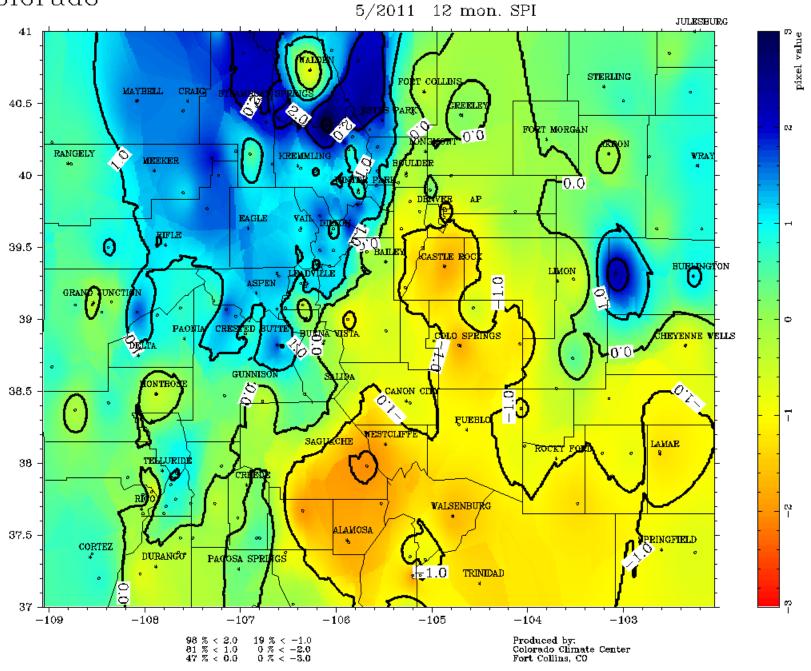
Released Thursday, June 16, 2011 Brian Fuchs, National Drought Mitigation Center Colorado



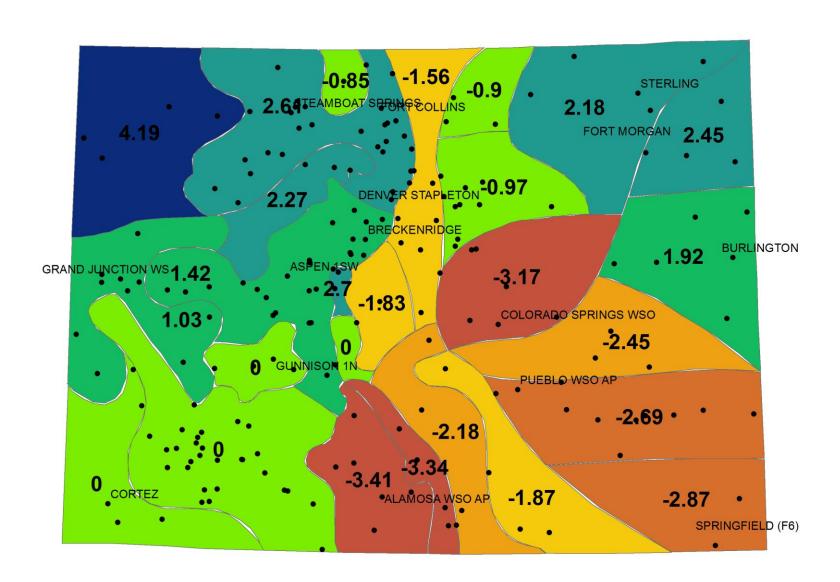
Colorado



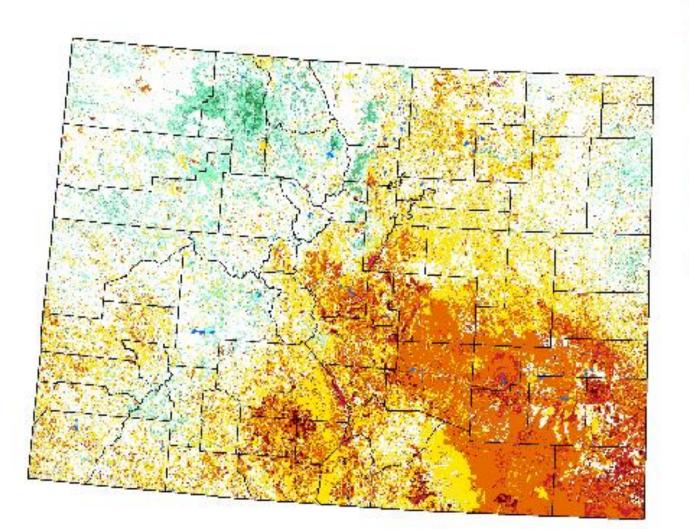
Colorado



Preliminary Modified Palmer Drought Severity Index for Colorado May 2011



Vegetation Drought Response Index Complete: Colorado



June 13, 2011

Vegetation Condition

- Extreme Drought
- Severe Drought
- Moderate Drought
- Pre-Drought
- Near Normal
- Unusually Moist
- Very Moist
- Extremely Moist
- Out of Season
- Water

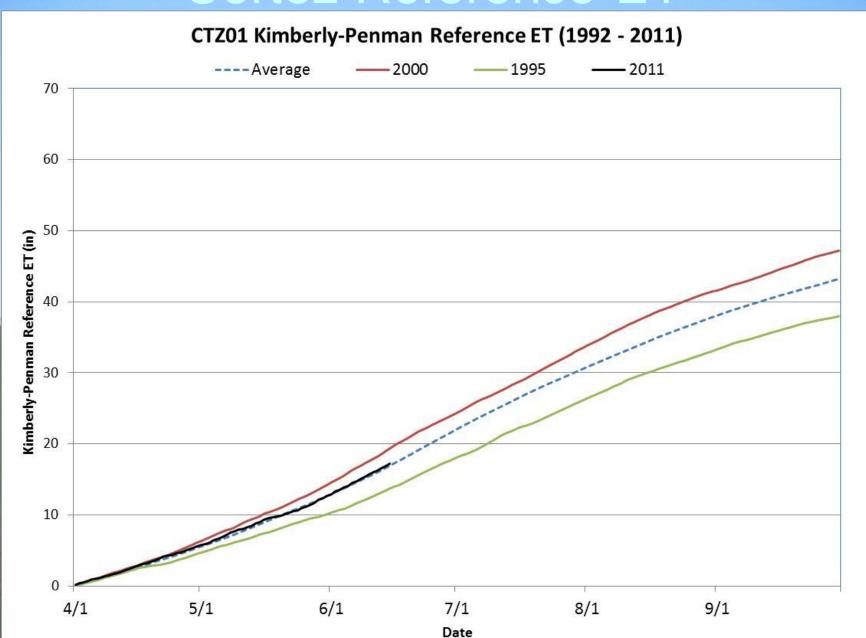




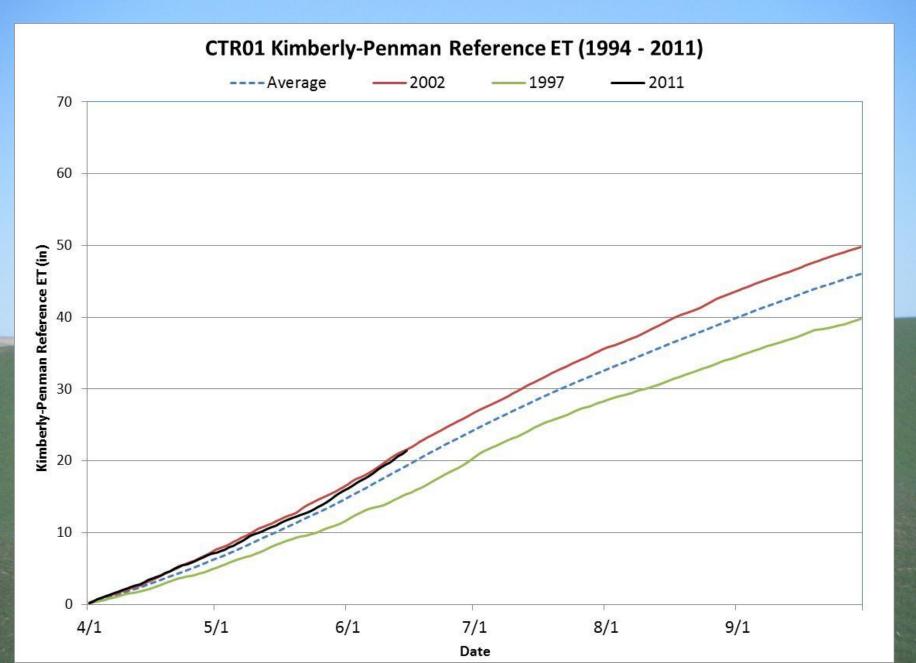




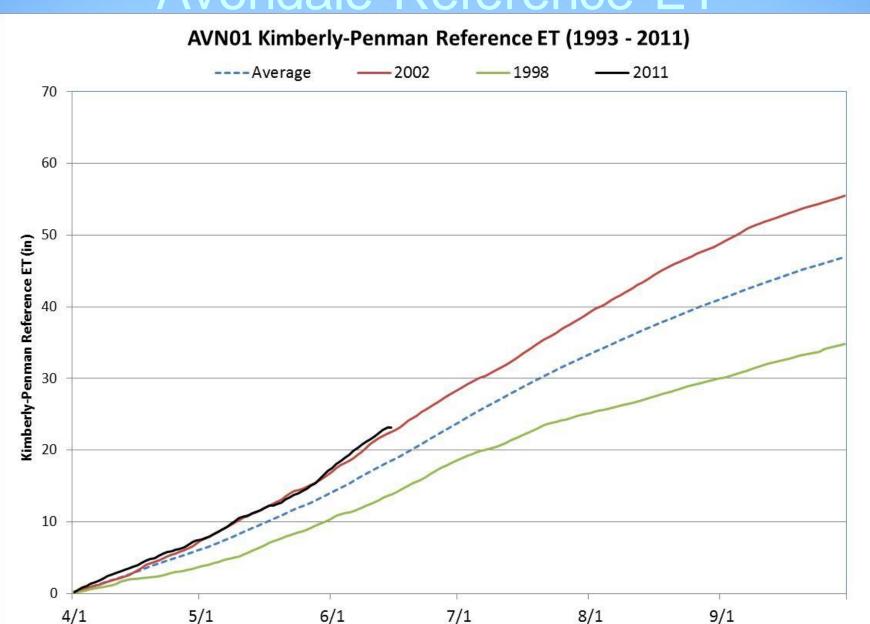
Cortez Reference ET



Center Reference ET

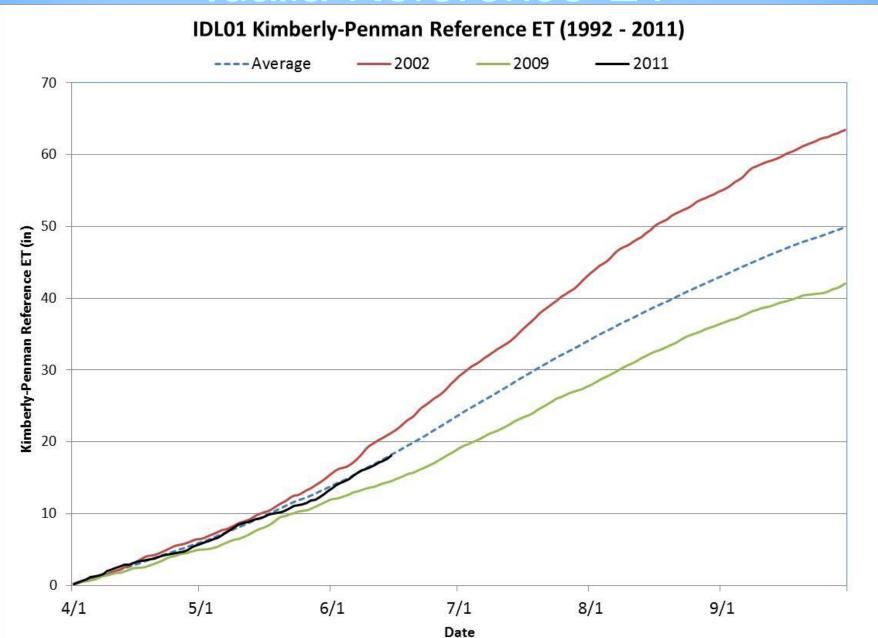


Avondale Reference ET

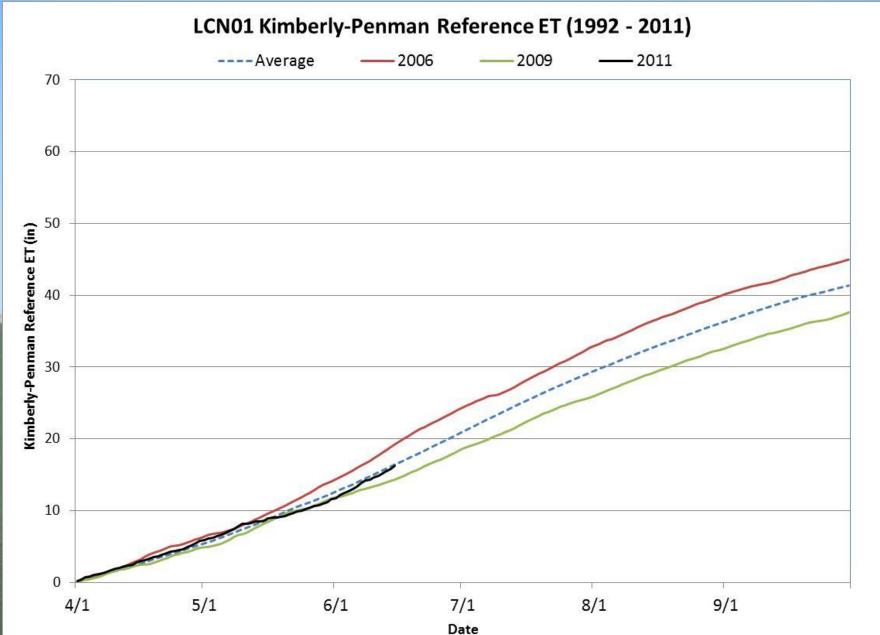


Date

Idalia Reference ET



Lucerne Reference ET



Colorado Climate Center





Data and Power Point Presentations available for downloading

http://ccc.atmos.colostate.edu/droughtpresentations.php