

Climate Update



Wendy Ryan Colorado Climate Center

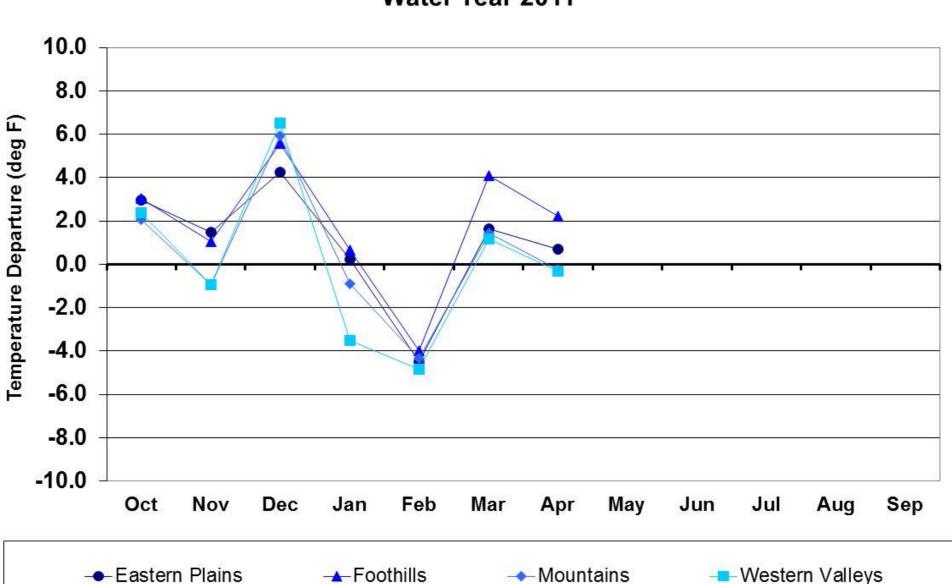
Atmospheric Science Department Colorado State University

Presented to Water Availability-Task Force May LLth, 2011 Denver, CO

Prepared by Wendy Ryan

Water Year 2011 Temperature Departures

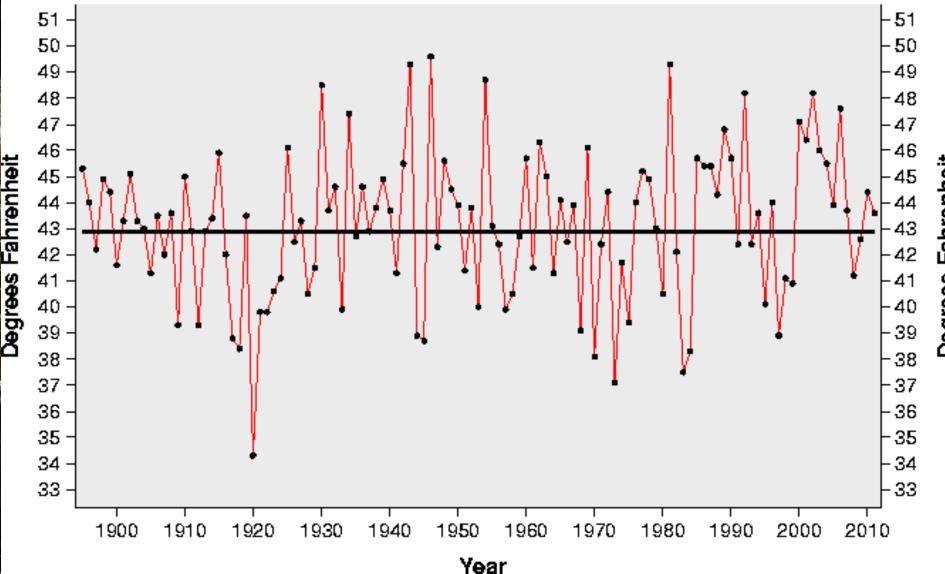
Water Year 2011



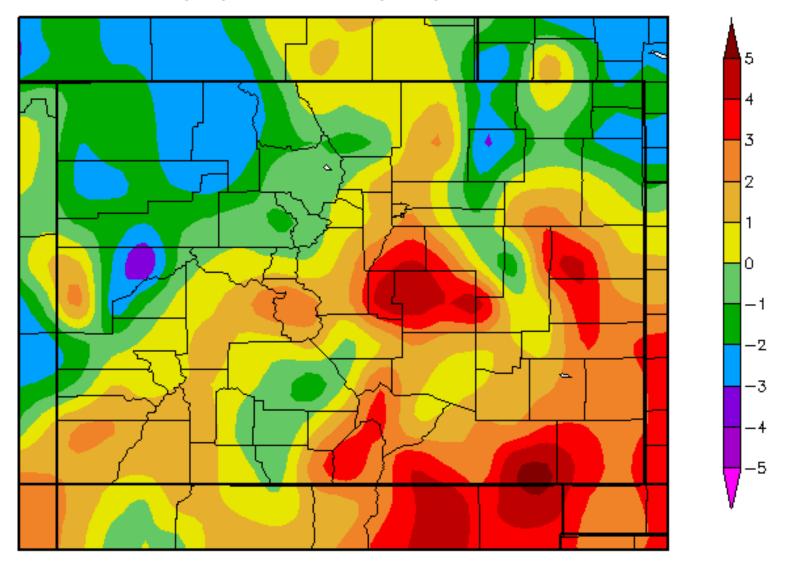
April Average Temperature History for Colorado (NCDC)

---- Actual Temperature
---- Average Temperature

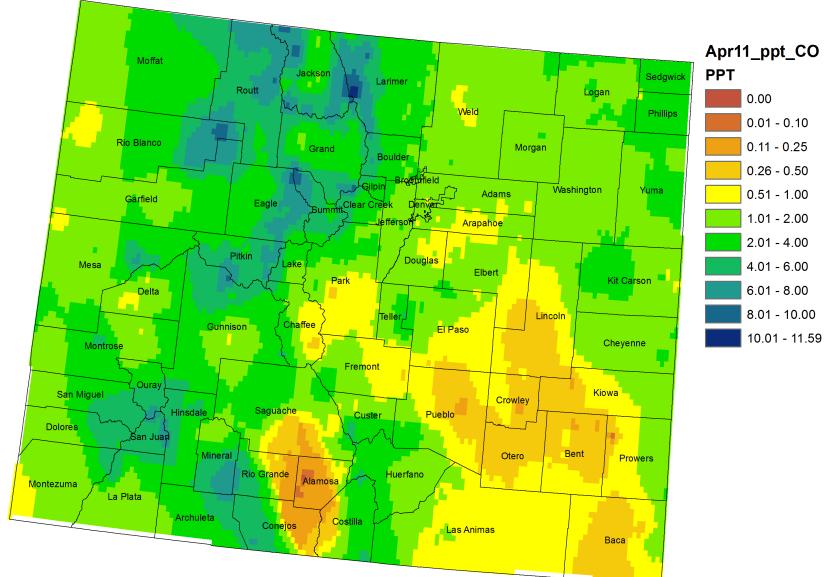
43.6 Degrees ranks 65th coolest for the period (1895-2011)



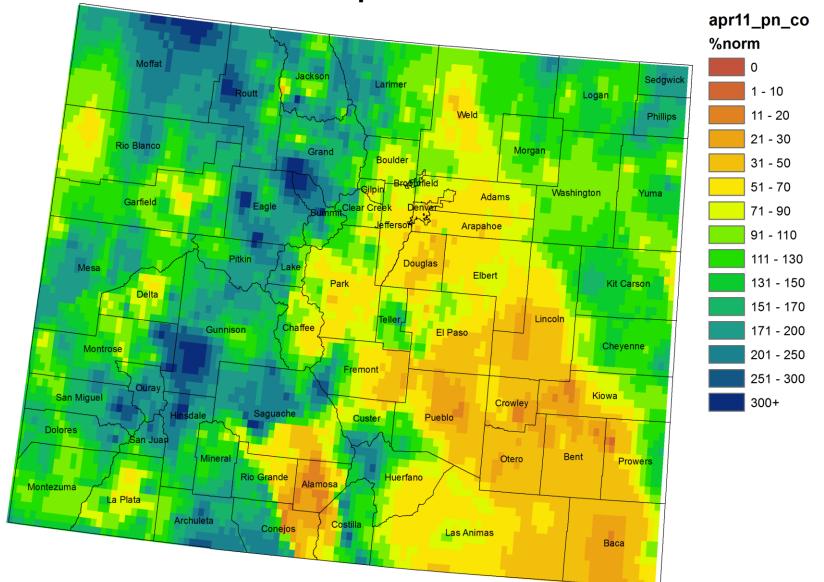
Departure from Normal Temperature (F) 4/1/2011 - 4/30/2011



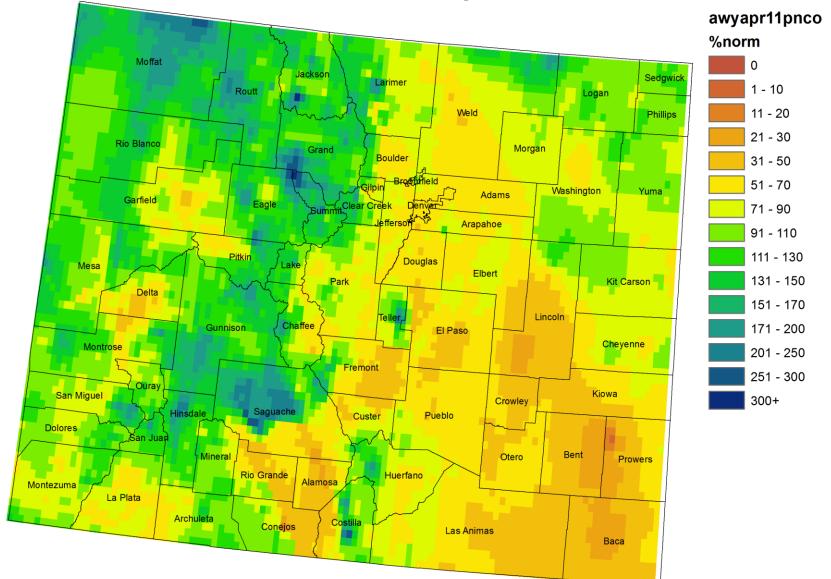
Colorado Precipitation (in) April 2011



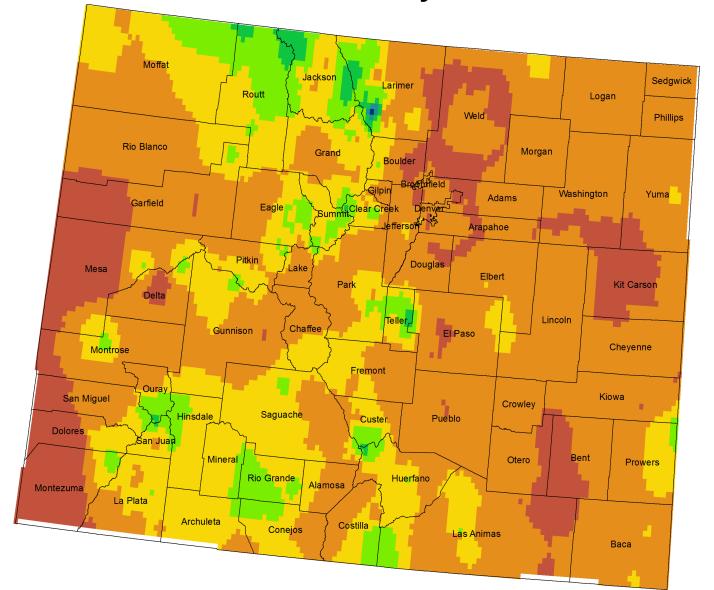
Colorado Precipitation as Percentage of Normal April 2011

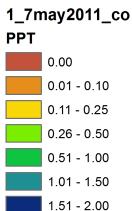


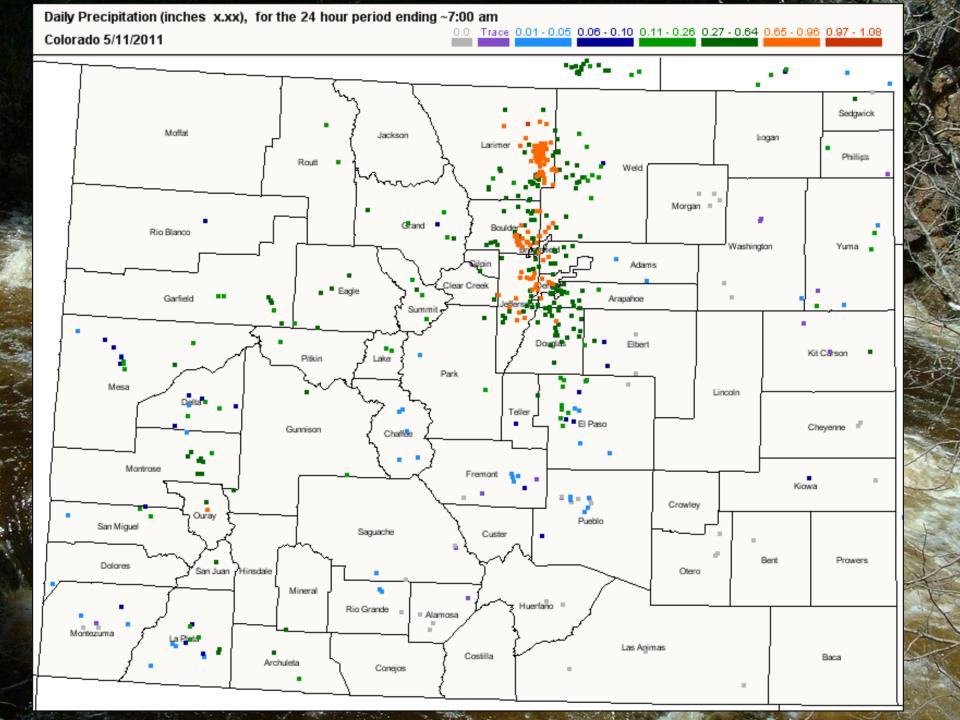
Colorado Water Year Precipitation as Percentage of Normal October 2010 - April 2011



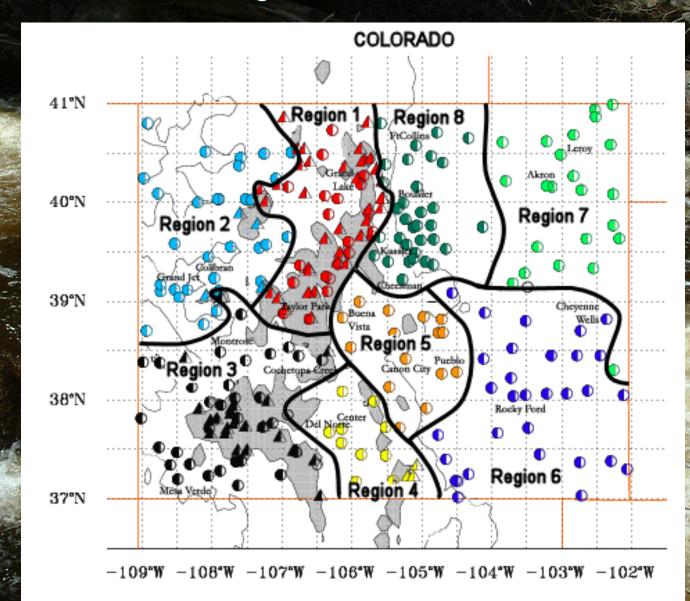
Colorado Precipitation (in) 1 - 7 May 2011





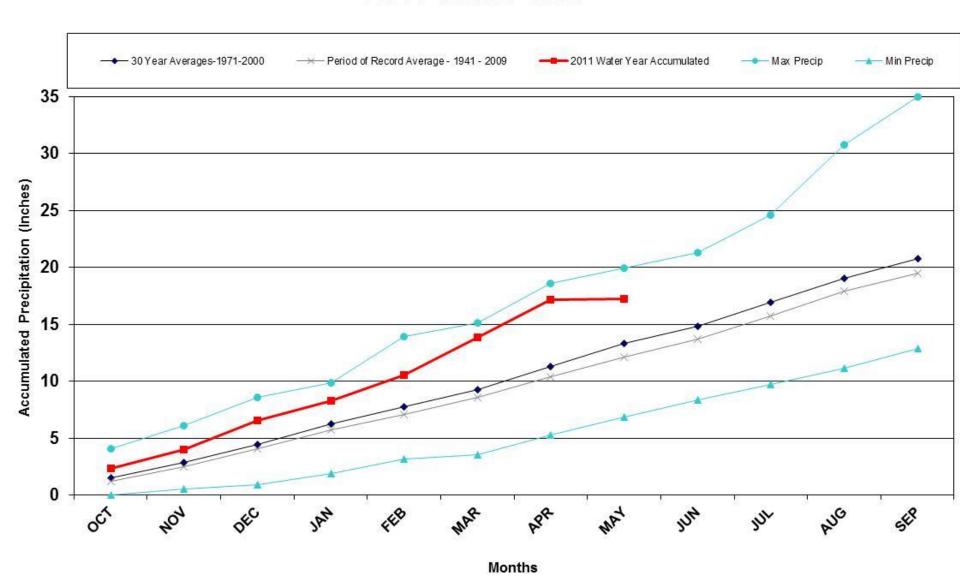


Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO



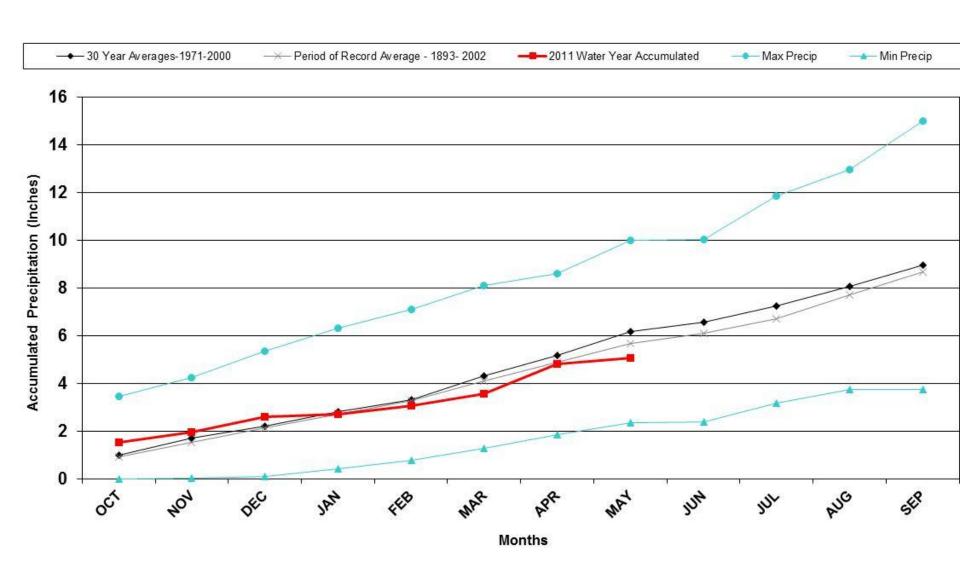
Division 1 - Grand Lake 1NW

Grand Lake 1 NW 2011 Water Year



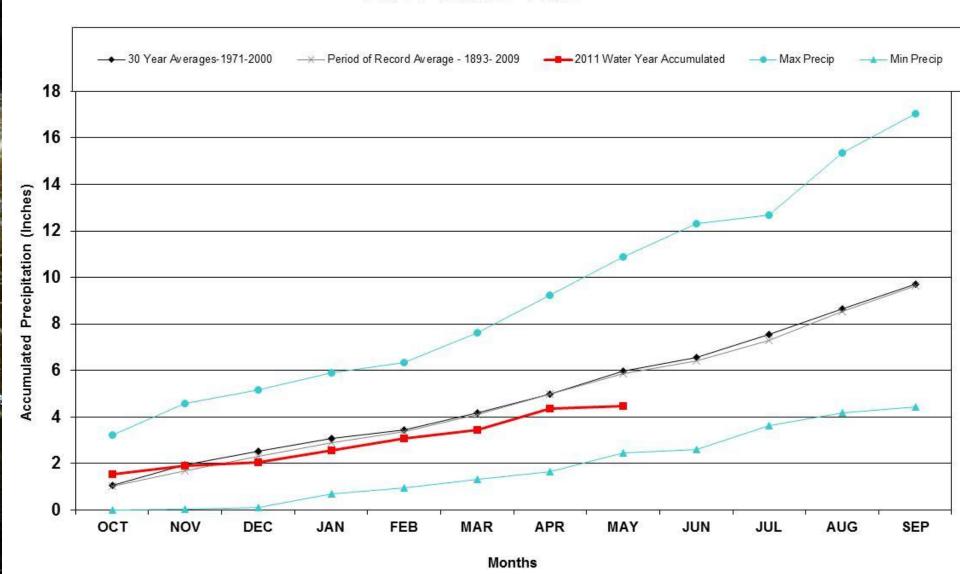
Division 2 - Grand Junction

Grand Junction WSFO 2011 Water Year



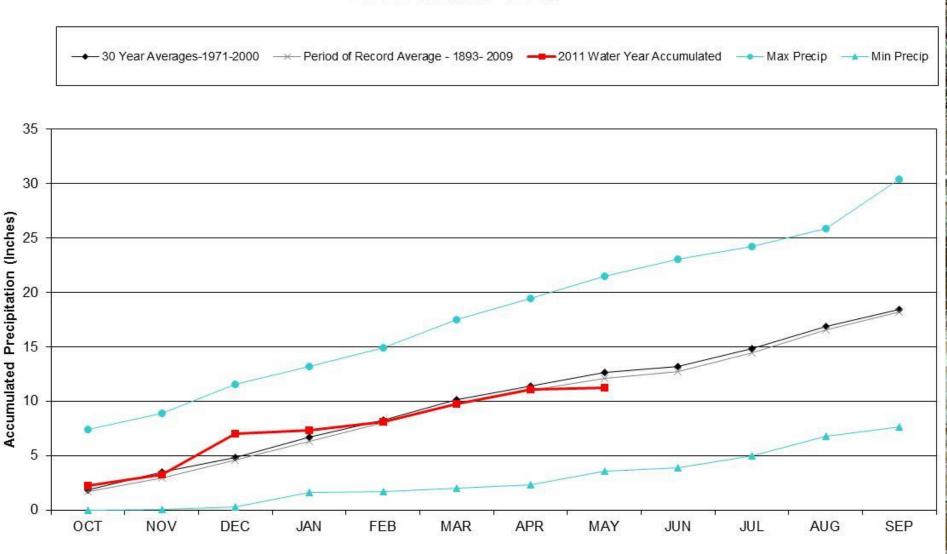
Division 3 – Montrose

Montrose #2 2011 Water Year



Division 3 – Mesa Verde NP

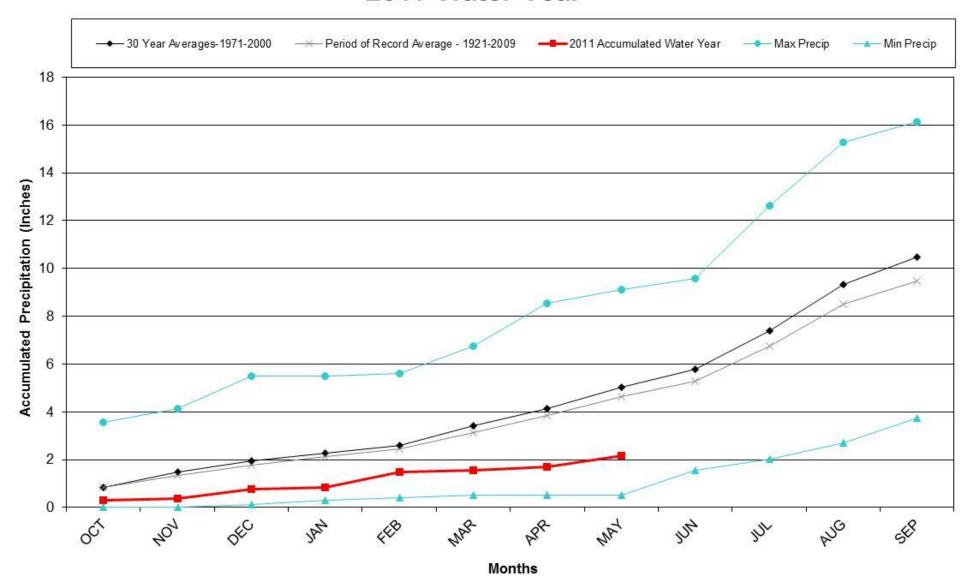
Mesa Verde NP 2011 Water Year



Months

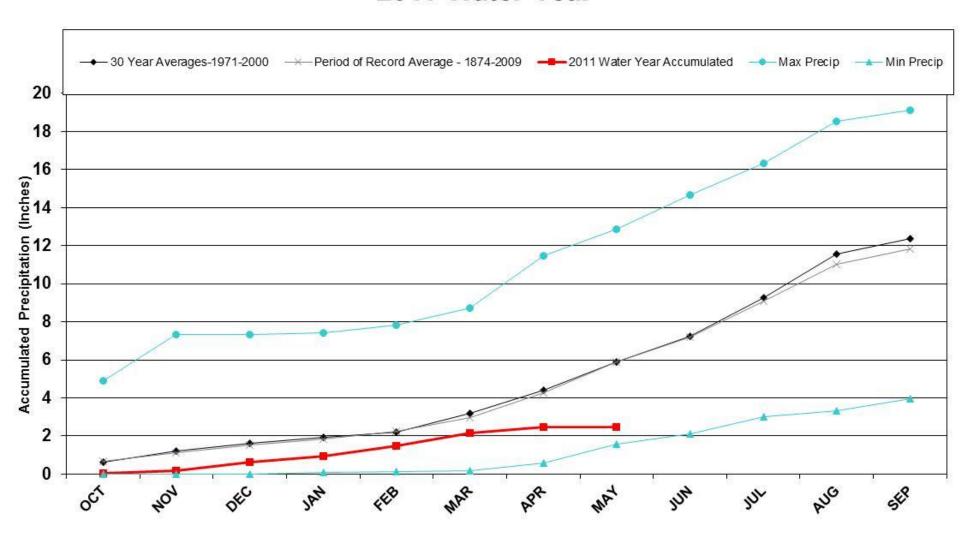
Division 4 – Del Norte

Del Norte 2011 Water Year



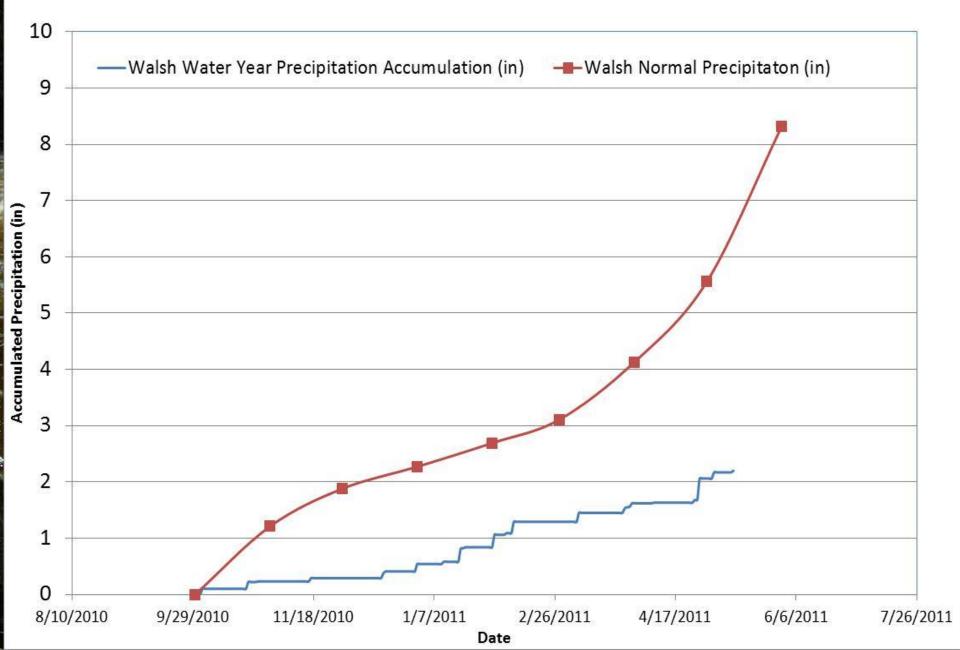
Division 5 – Pueblo

Pueblo WSO 2011 Water Year



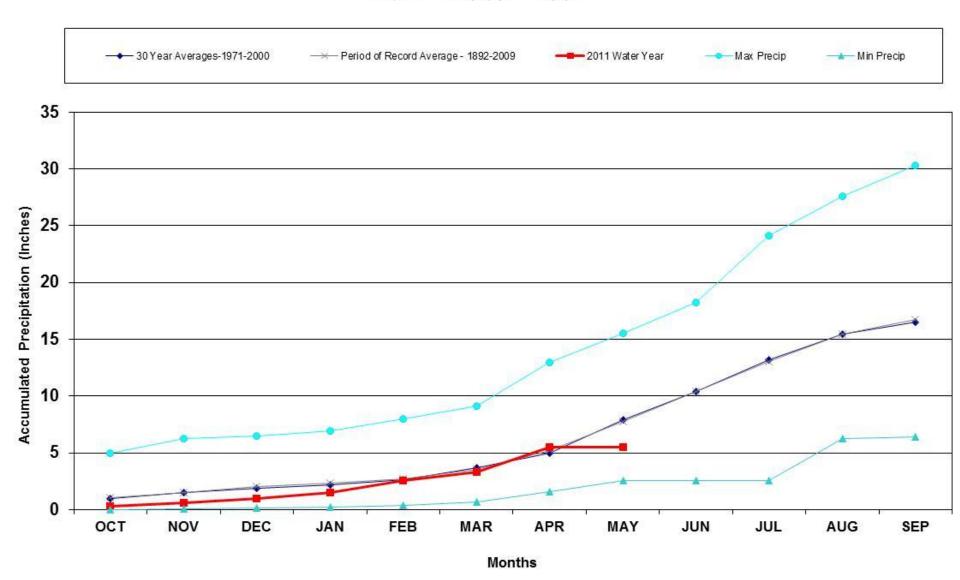
Months

WY 2011 Walsh Precipitation compared to Normal (in)



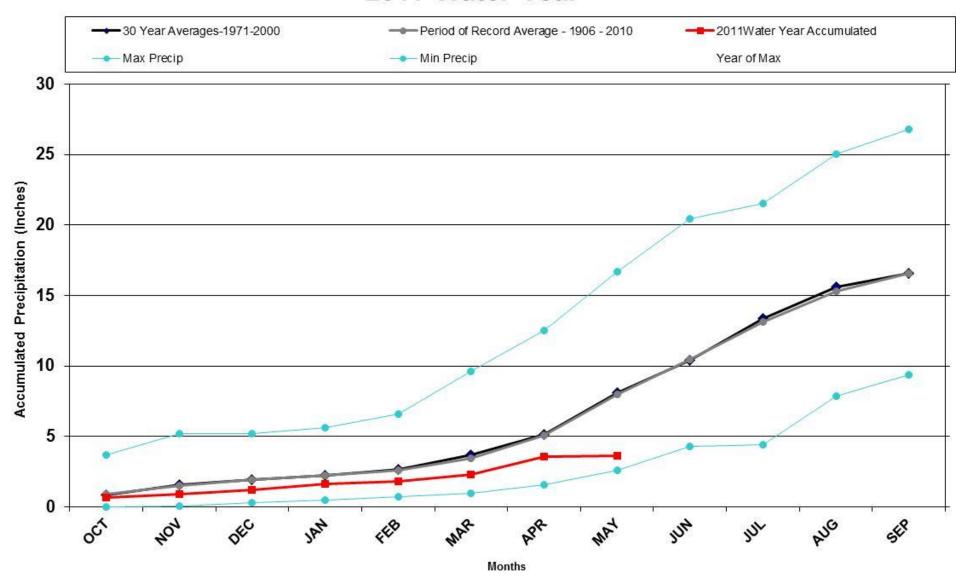
Division 6 - Burlington

Burlington 2011 Water Year



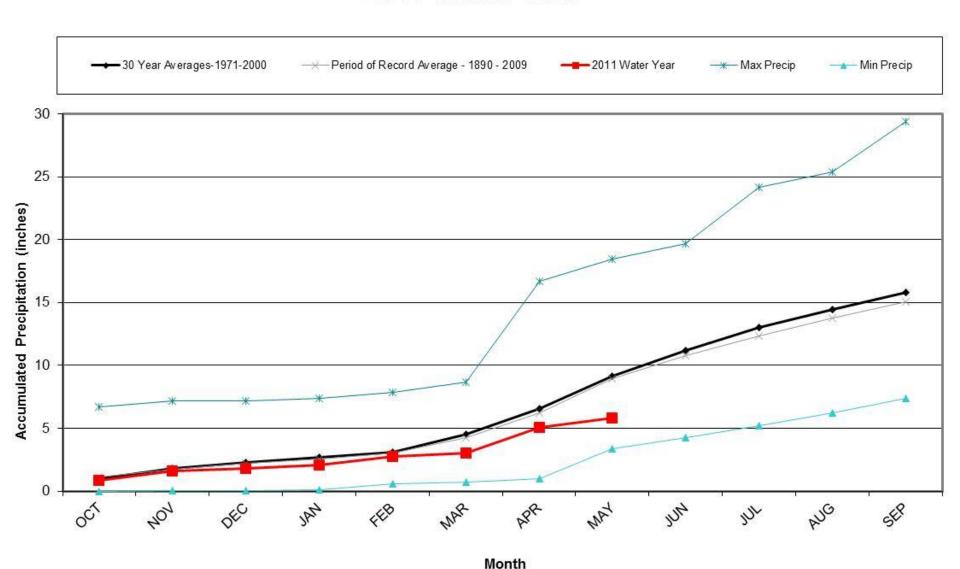
Division 7 — Akron

Akron 4E 2011 Water Year



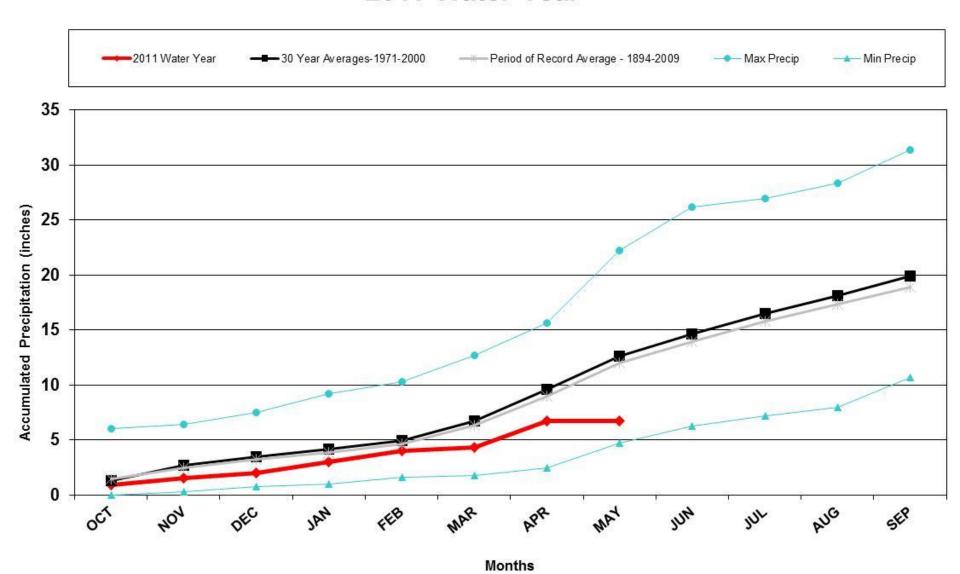
Division 8 – Fort Collins

Fort Collins 2011 Water Year



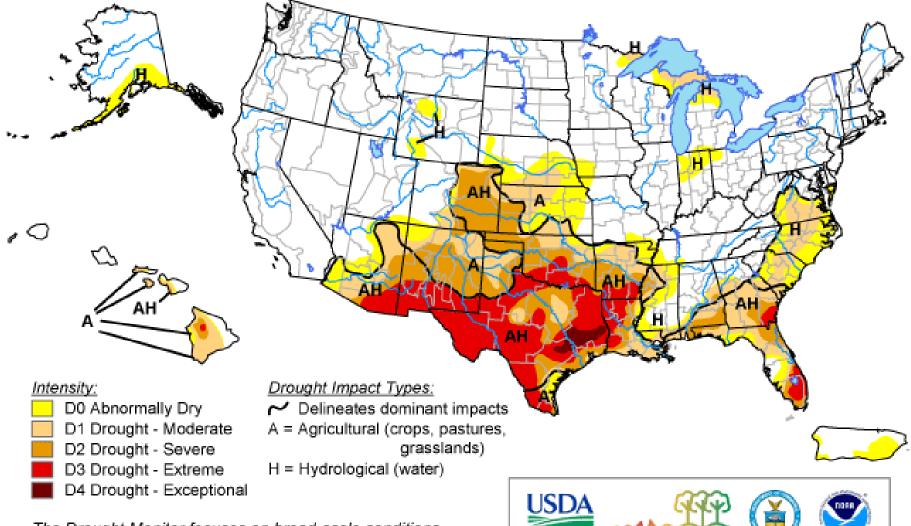
Division 8 - Boulder

Boulder 2011 Water Year



U.S. Drought Monitor

April 5, 2011



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

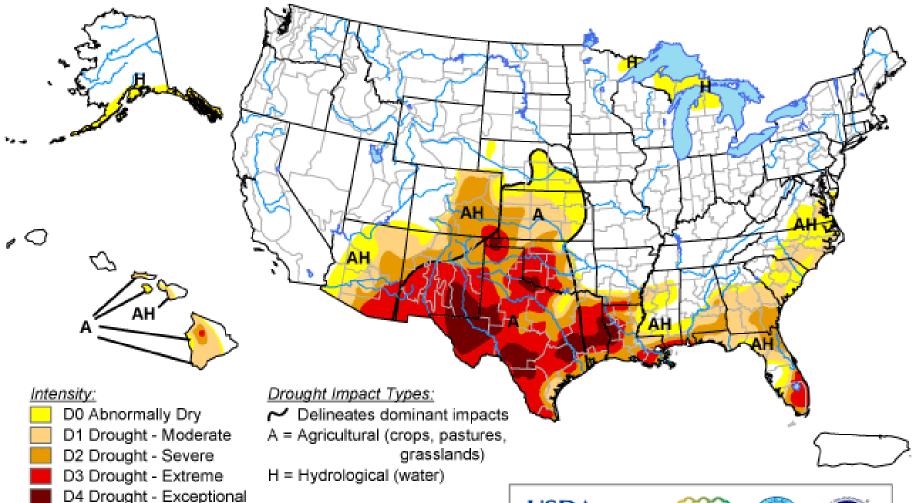
Released Thursday, April 7, 2011

http://drought.unl.edu/dm

Author: Mark Svoboda, National Drought Mitigation Center

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



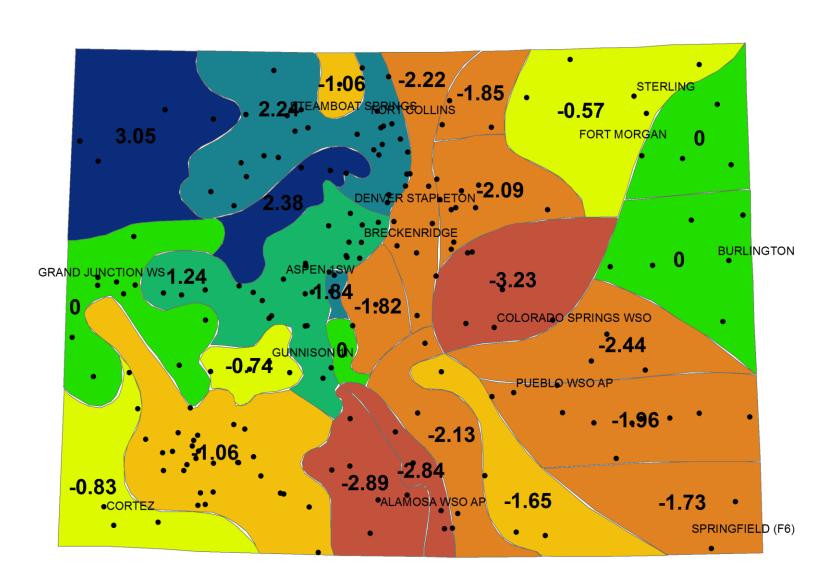




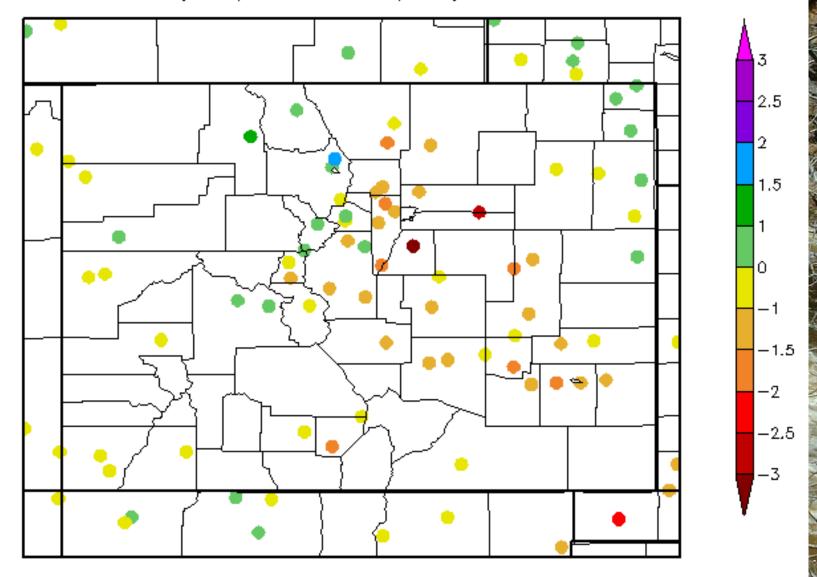


Released Thursday, May 5, 2011 Author: Rich Tinker, NOAA/NWS/NCEP/CPC

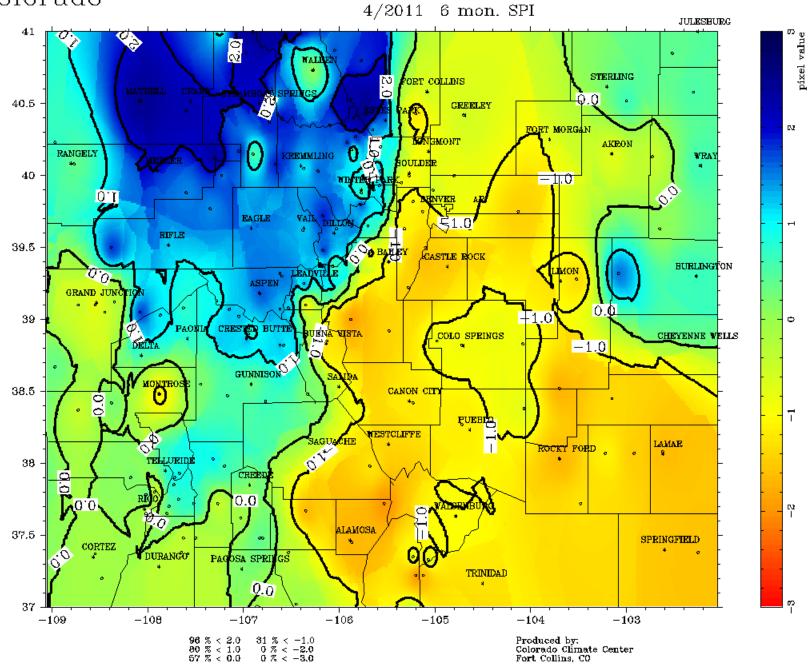
Preliminary Modified Palmer Drought Severity Index for Colorado April 2011



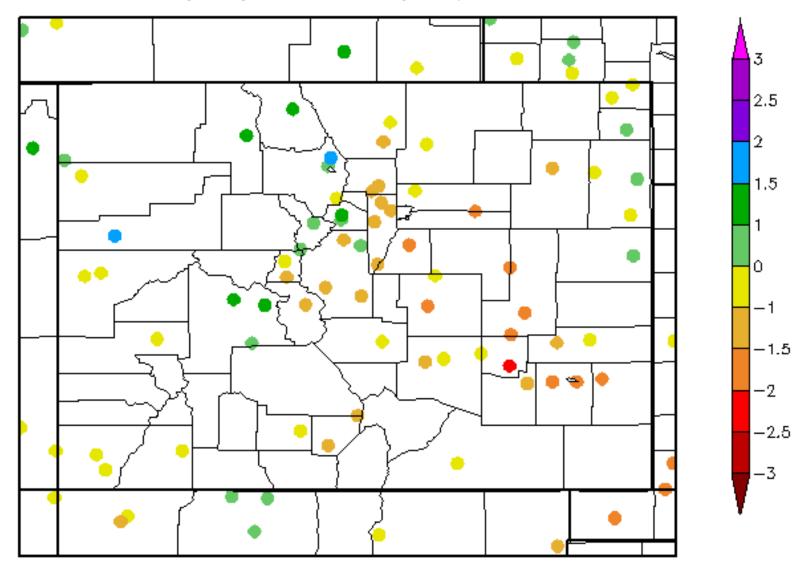
90 Day SPI 2/10/2011 - 5/10/2011



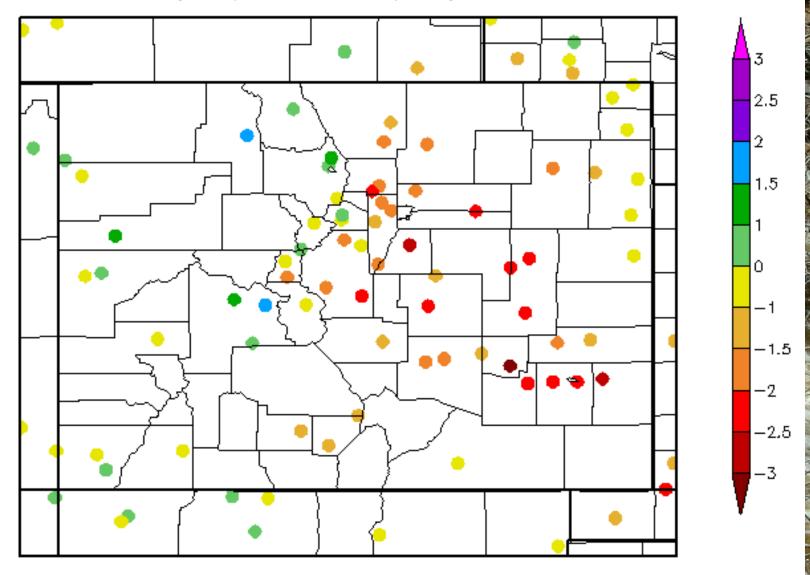
Colorado



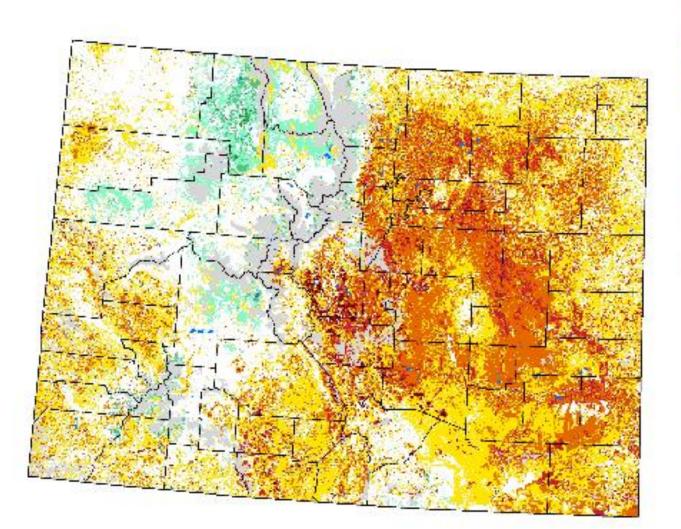
6 Month SPI 11/11/2010 - 5/10/2011



9 Month SPI 8/11/2010 - 5/10/2011



Vegetation Drought Response Index Complete: Colorado



May 2, 2011

Vegetation Condition

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



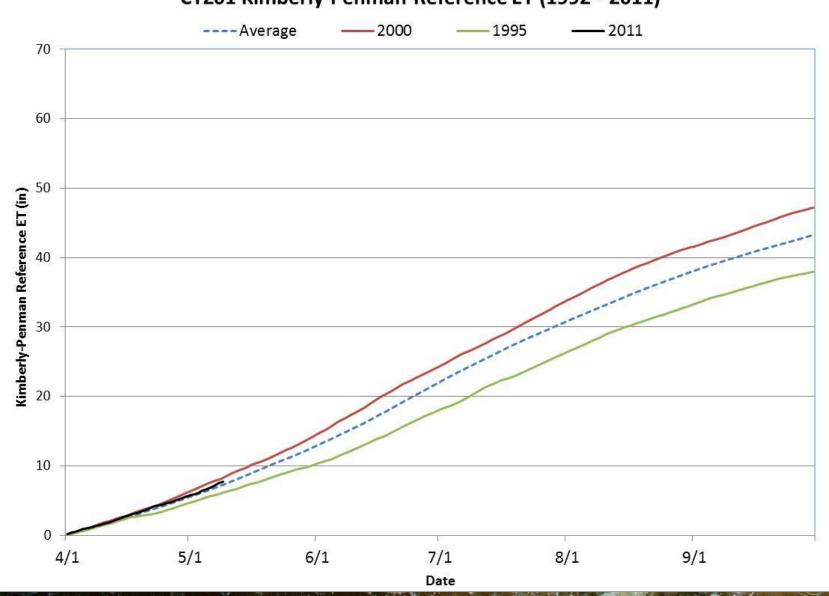






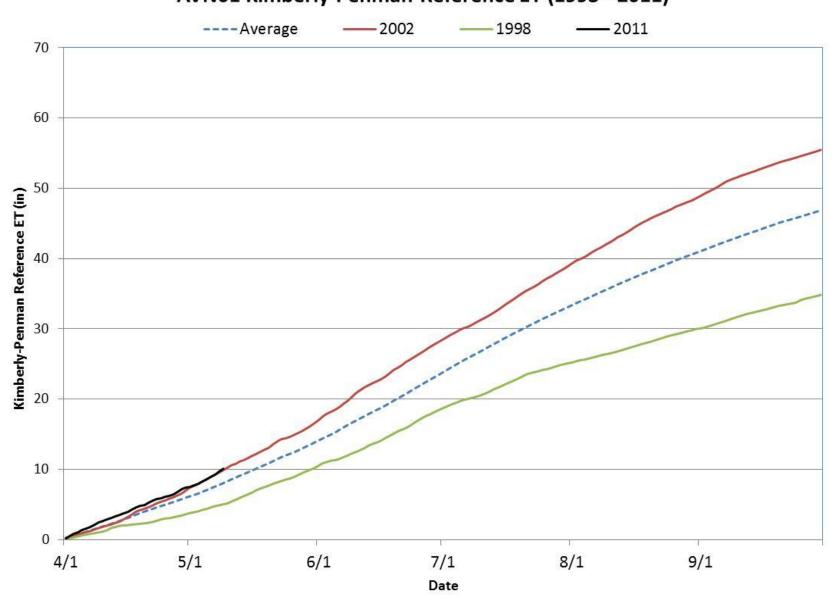
Cortez Reference ET





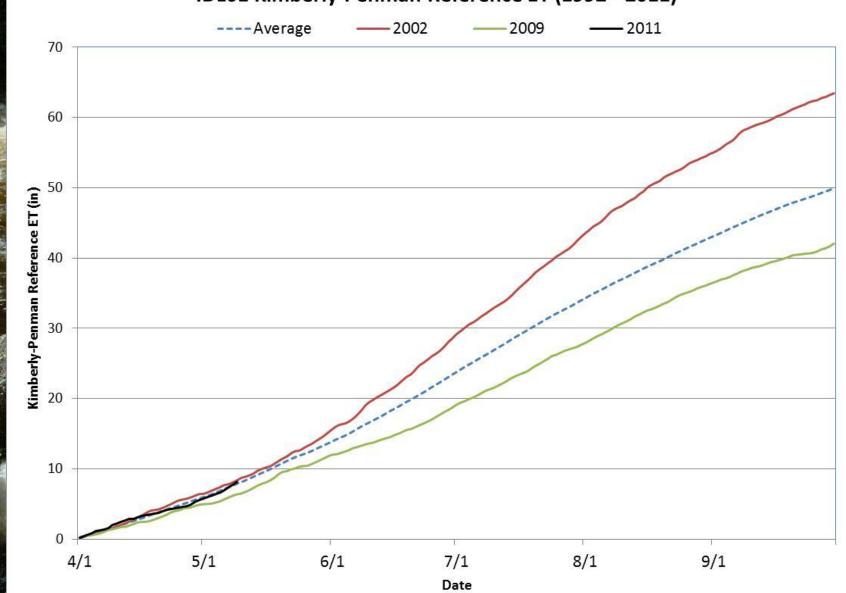
Avondale Reference ET

AVN01 Kimberly-Penman Reference ET (1993 - 2011)



Idalia Reference ET





Lucerne Reference ET



