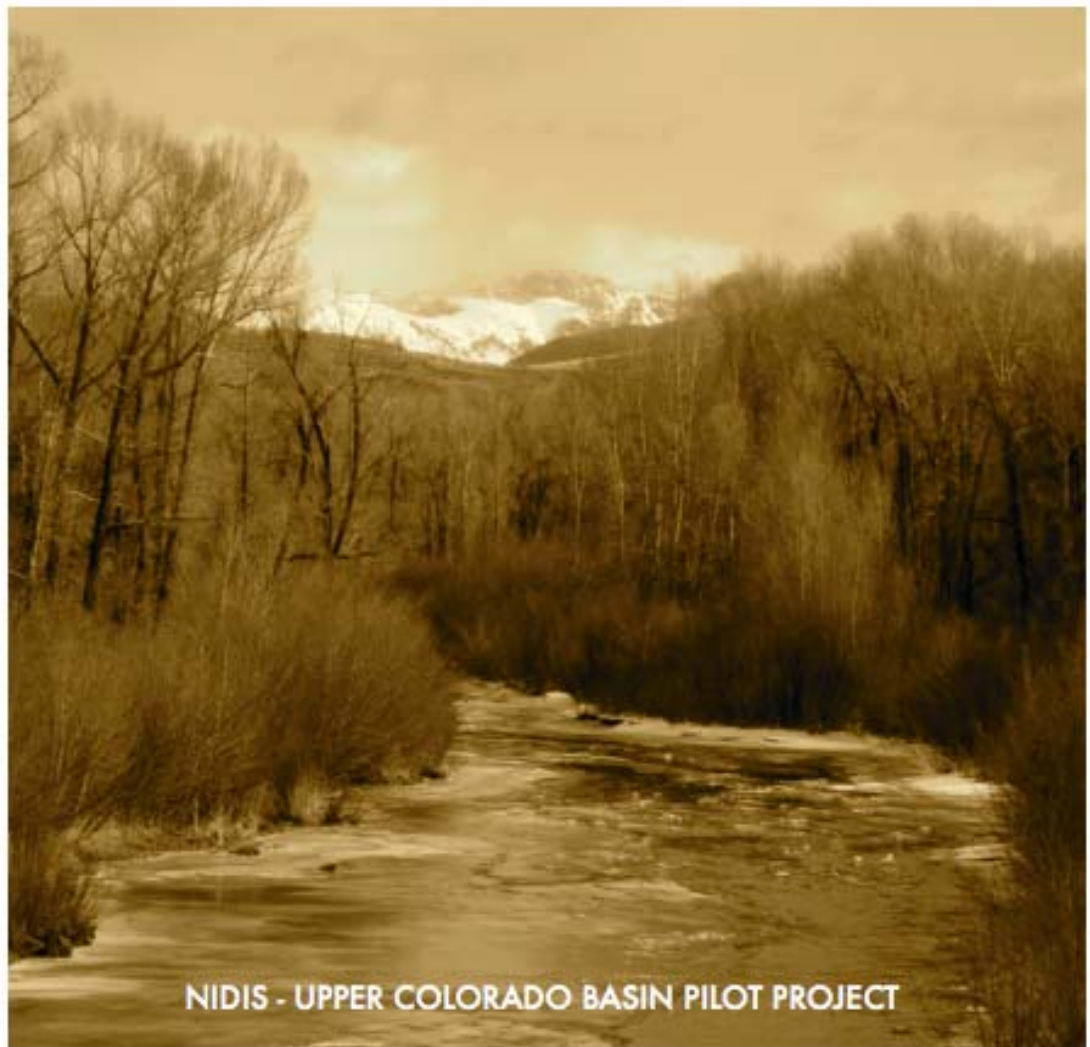


Winter 2010



NIDIS - UPPER COLORADO BASIN PILOT PROJECT

Weekly Climate, Water & Drought Assessment

Today's Agenda

- Assessment of current water conditions
- Precipitation Forecast
- Recommendations for Drought Monitor

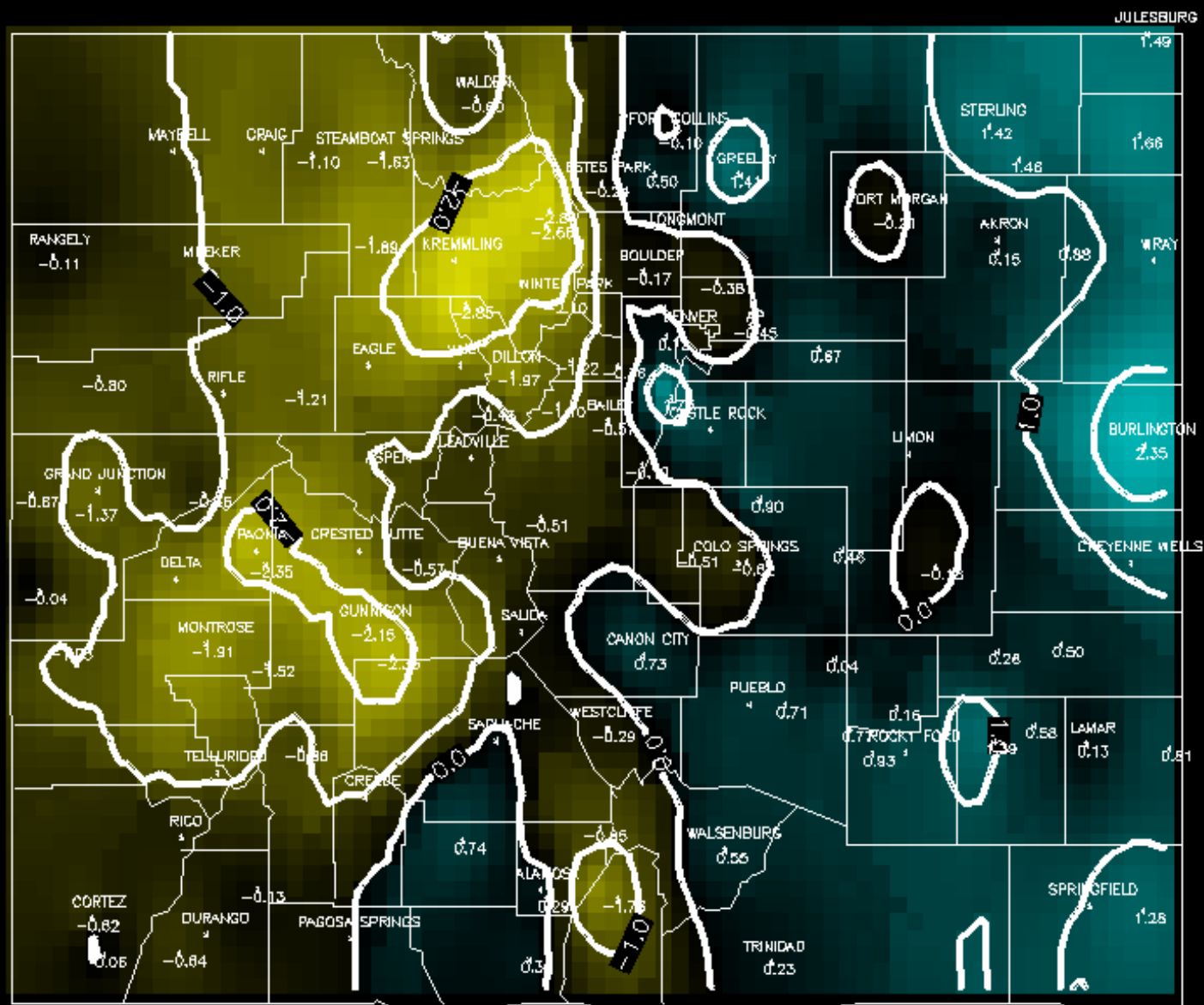
Precipitation/Snowpack Update



3-month SPI



6-month SPI

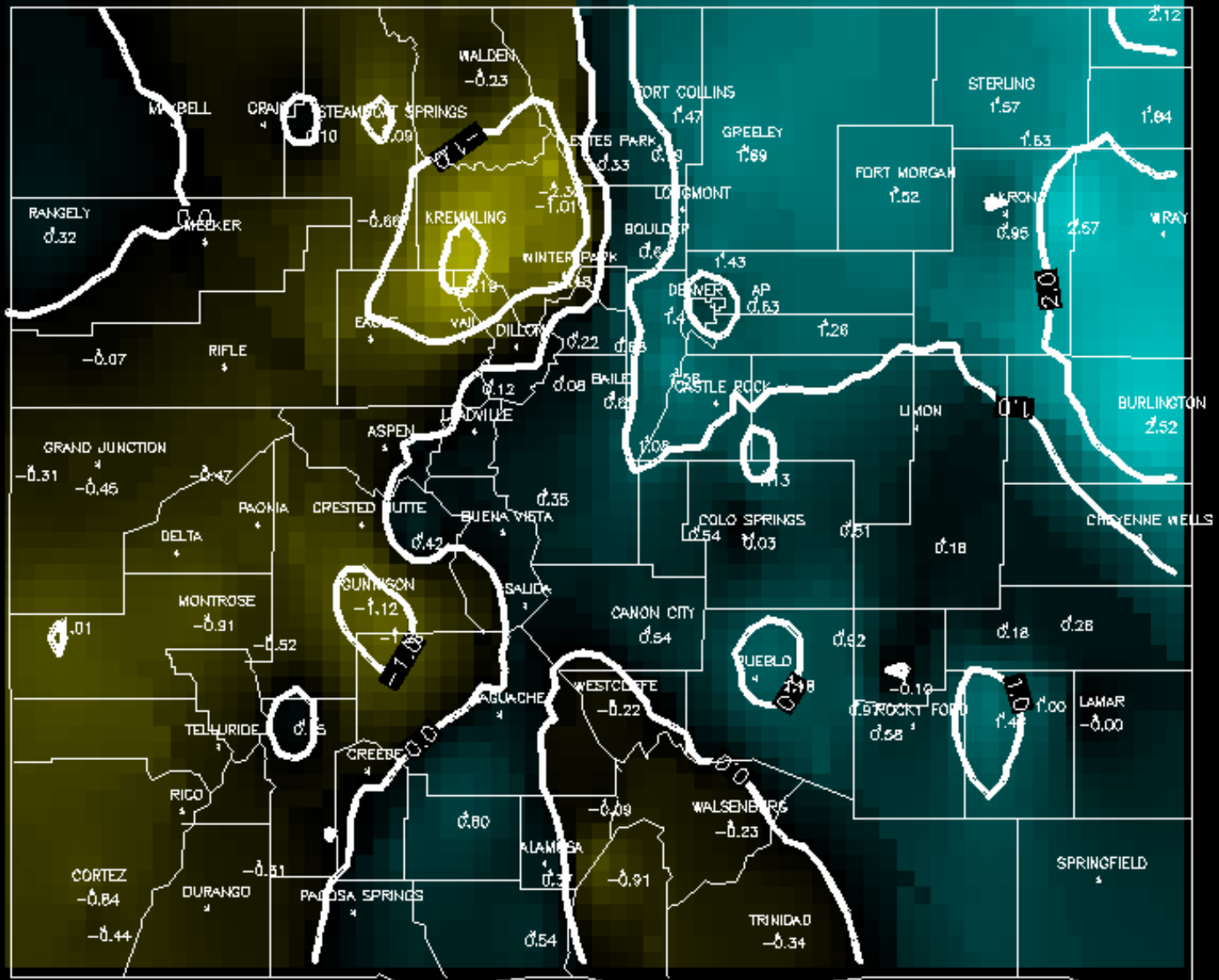


98 % < 2.0
90 % < 1.0
54 % < 0.0

23 % < -1.0
3 % < -2.0
0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

12-month SPI

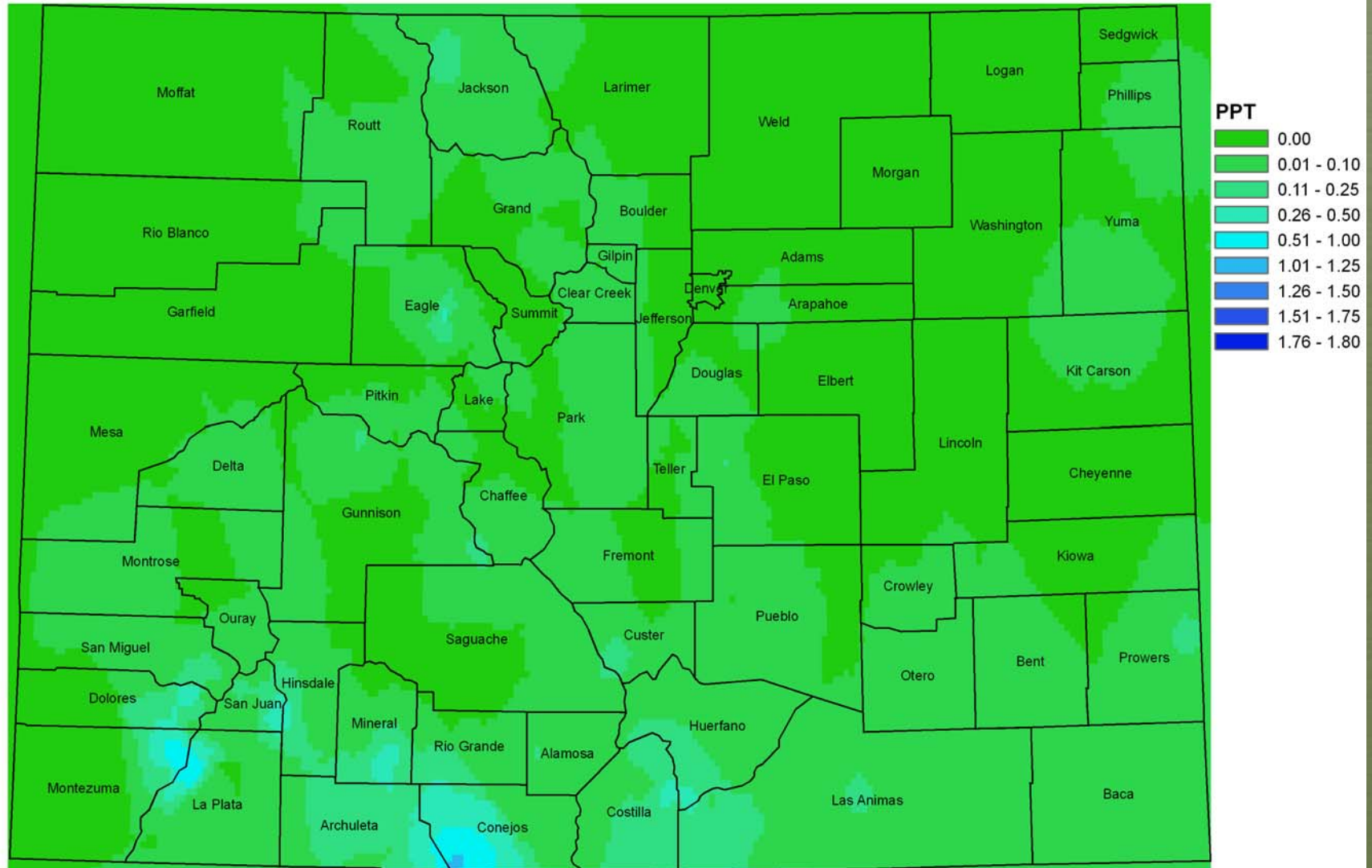


86 % < 2.0	3 % < -1.0
79 % < 1.0	0 % < -2.0
42 % < 0.0	0 % < -3.0

Produced by:
Colorado Climate Center
Fort Collins, CO

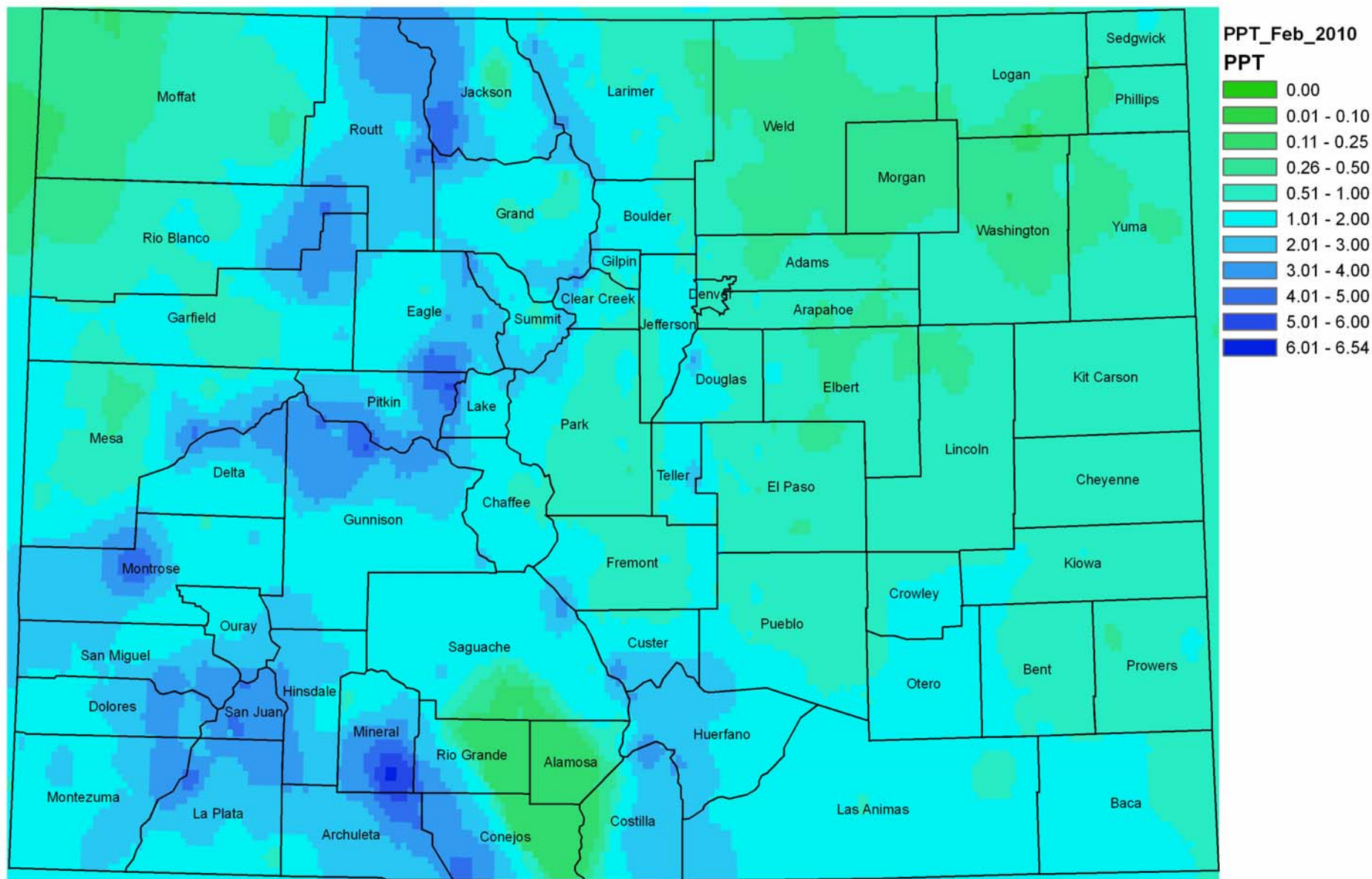
7 Day Precipitation Animation 22-28 February 2010

Colorado Precipitation (in) 22 February 2010



Produced by the Colorado Climate Center utilizing Snotel, NWS, CoCoRaHS and CoAgMet* Preliminary Precipitation Data
Analysis: Inverse Distance Weighting
*Summer only

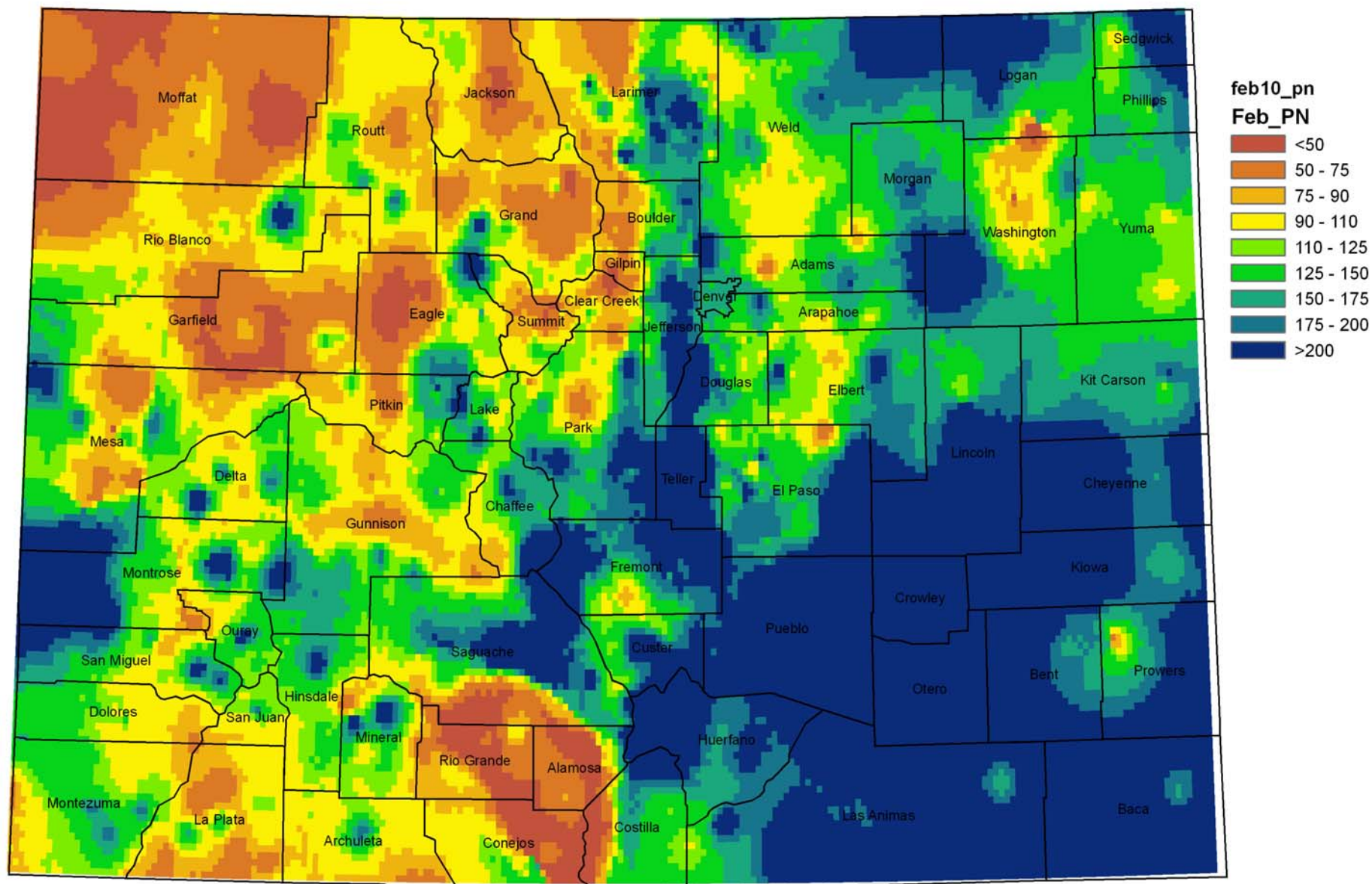
Colorado Precipitation (in) February 2010



Produced by the Colorado Climate Center utilizing Snotel, NWS, CoCoRaHS and CoAgMet* Preliminary Precipitation Data
Analysis: Inverse Distance Weighting

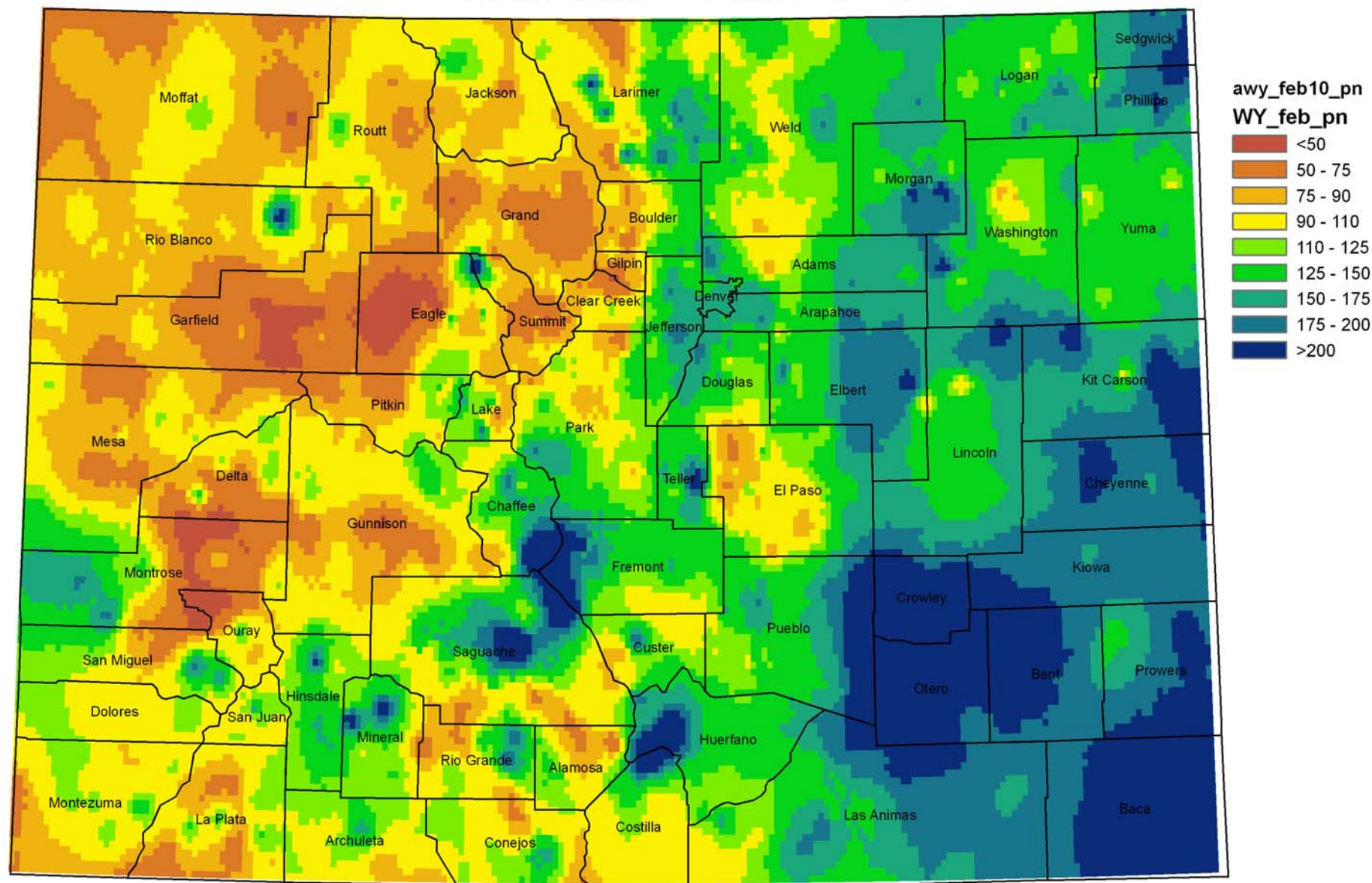
*Summer only

February 2010 Precipitation as Percent of Normal



Produced by the Colorado Climate Center utilizing Snotel, NWS, CoCoRaHS and CoAgMet* Preliminary Precipitation Data
Analysis: Inverse Distance Weighting
*Summer only

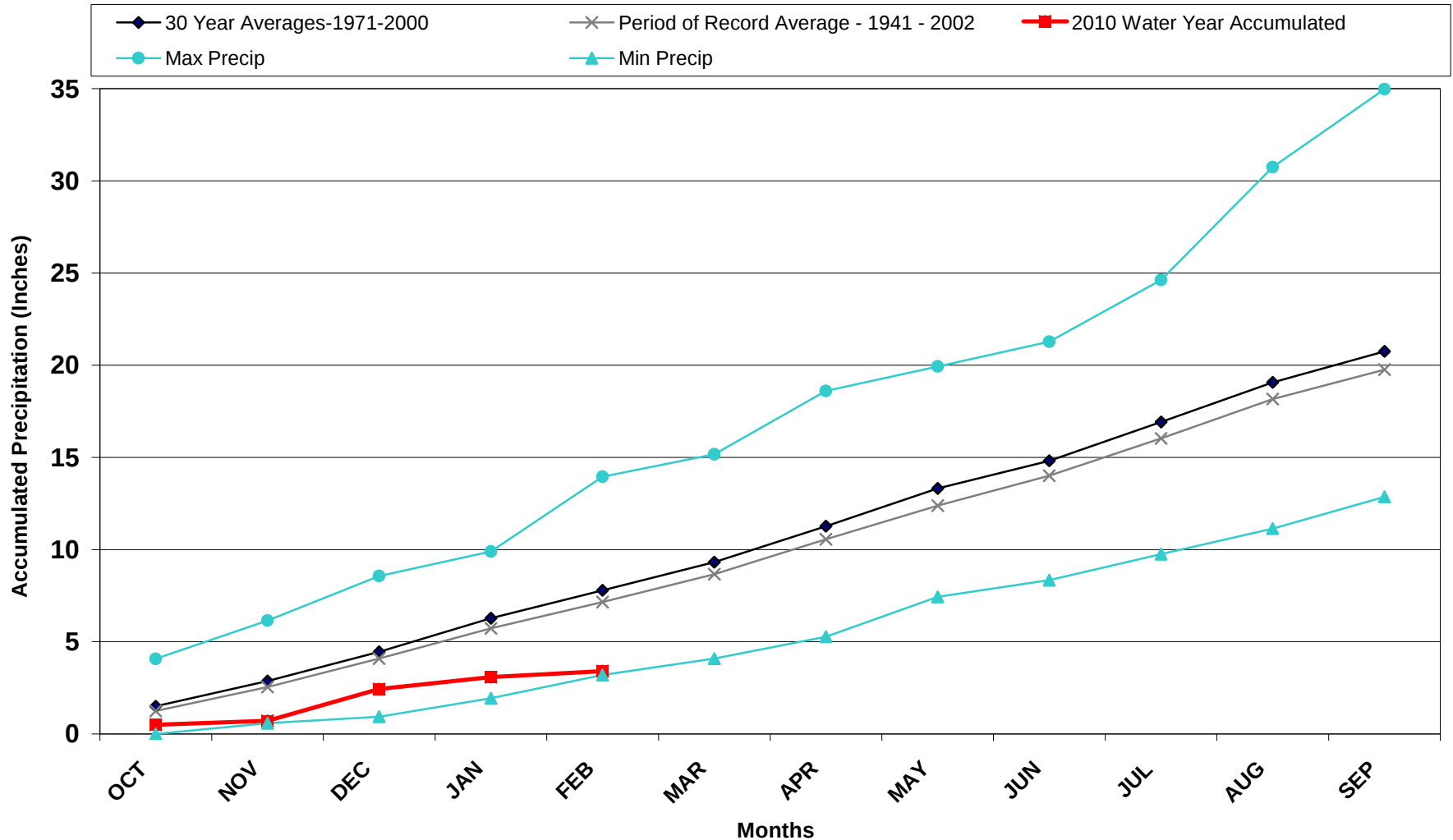
Colorado Water Year 2010 Precipitation as Percent of Normal Oct 2009 - Feb 2010



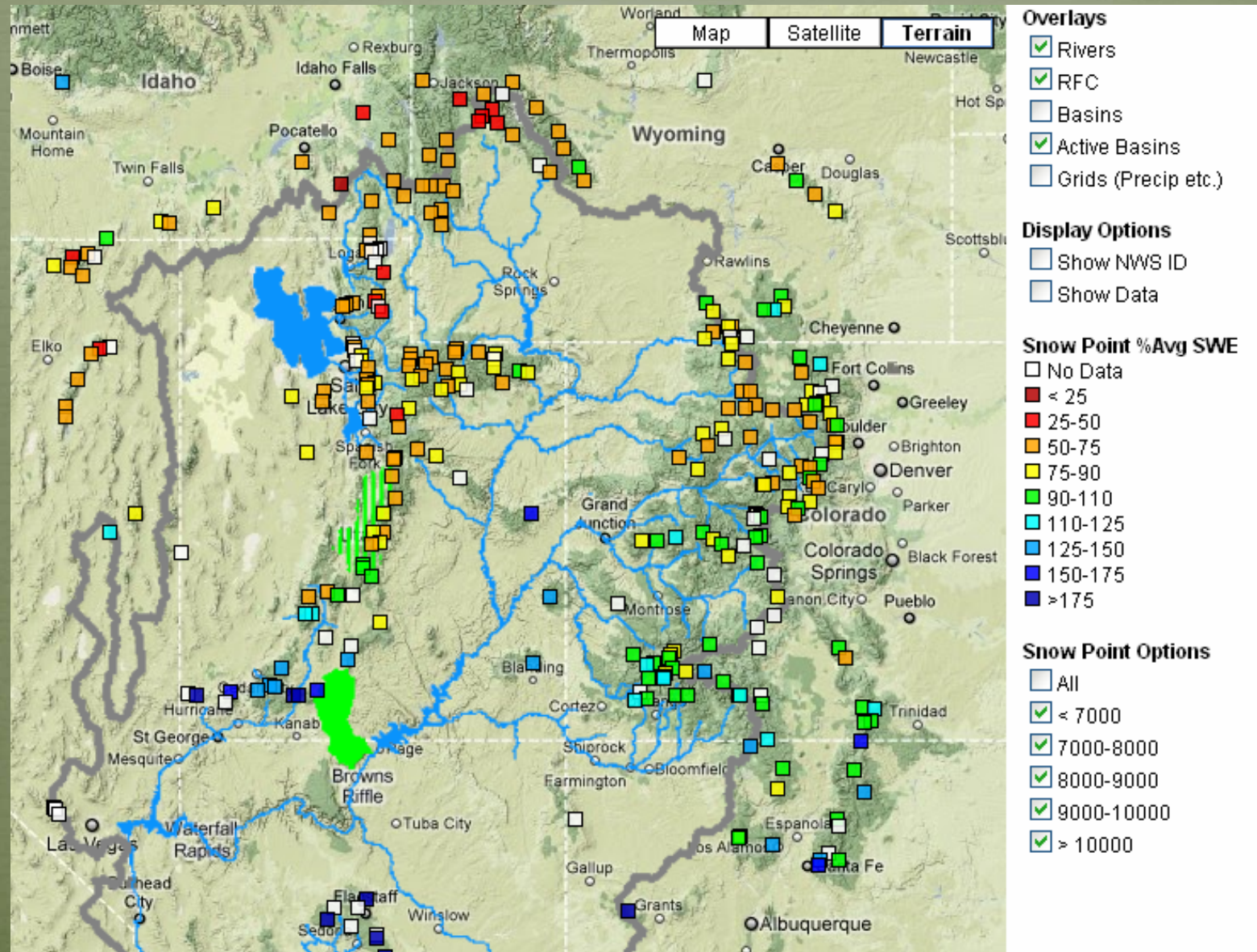
Produced by the Colorado Climate Center utilizing Snotel, NWS, CoCoRaHS and CoAgMet* Preliminary Precipitation Data
Analysis: Inverse Distance Weighting
*Summer only

Grand Lake 1NW

Grand Lake 1 NW 2010 Water Year



Upper Colorado River Basin



Click
here to
drag
area for
zoom

Map

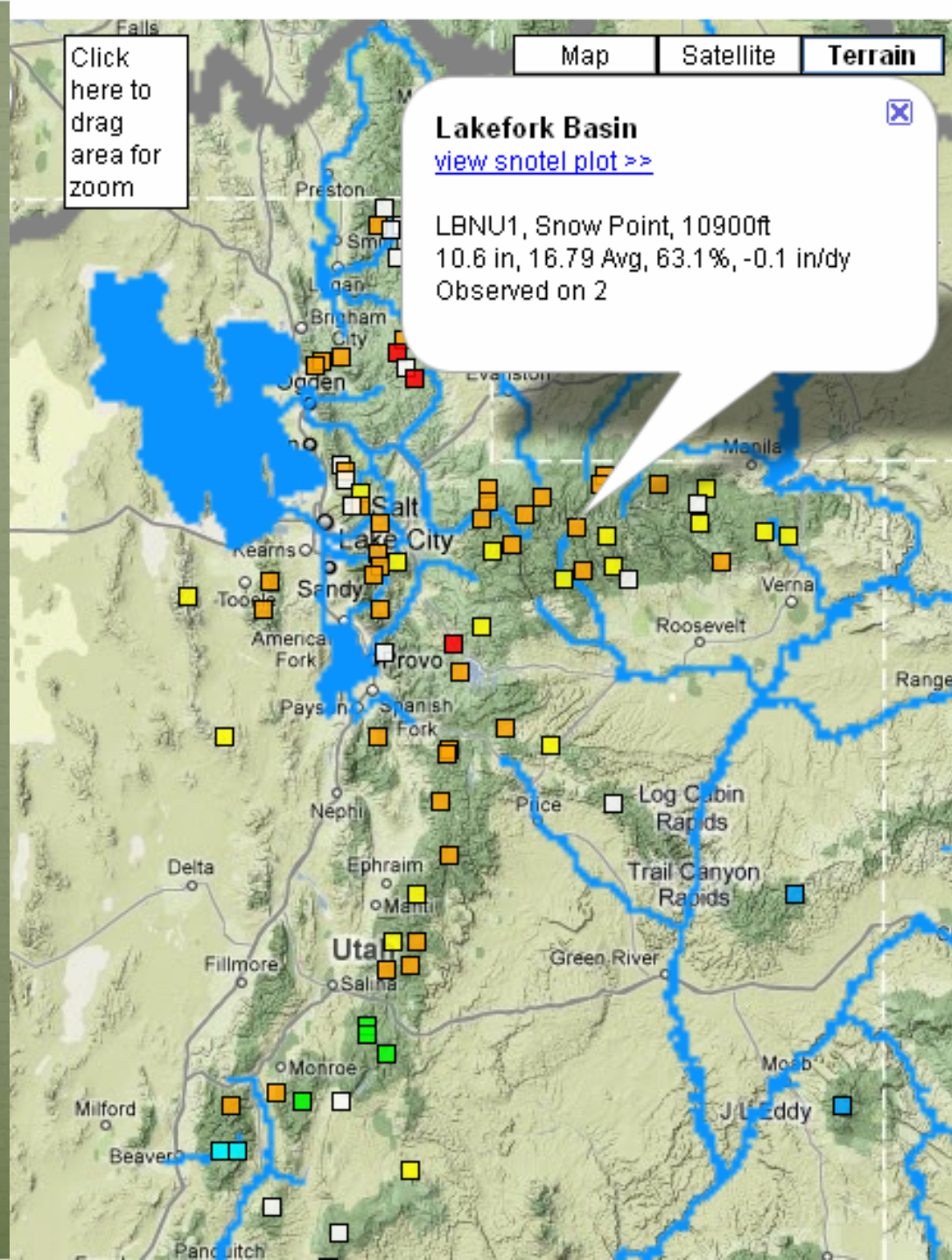
Satellite

Terrain

Lakefork Basin

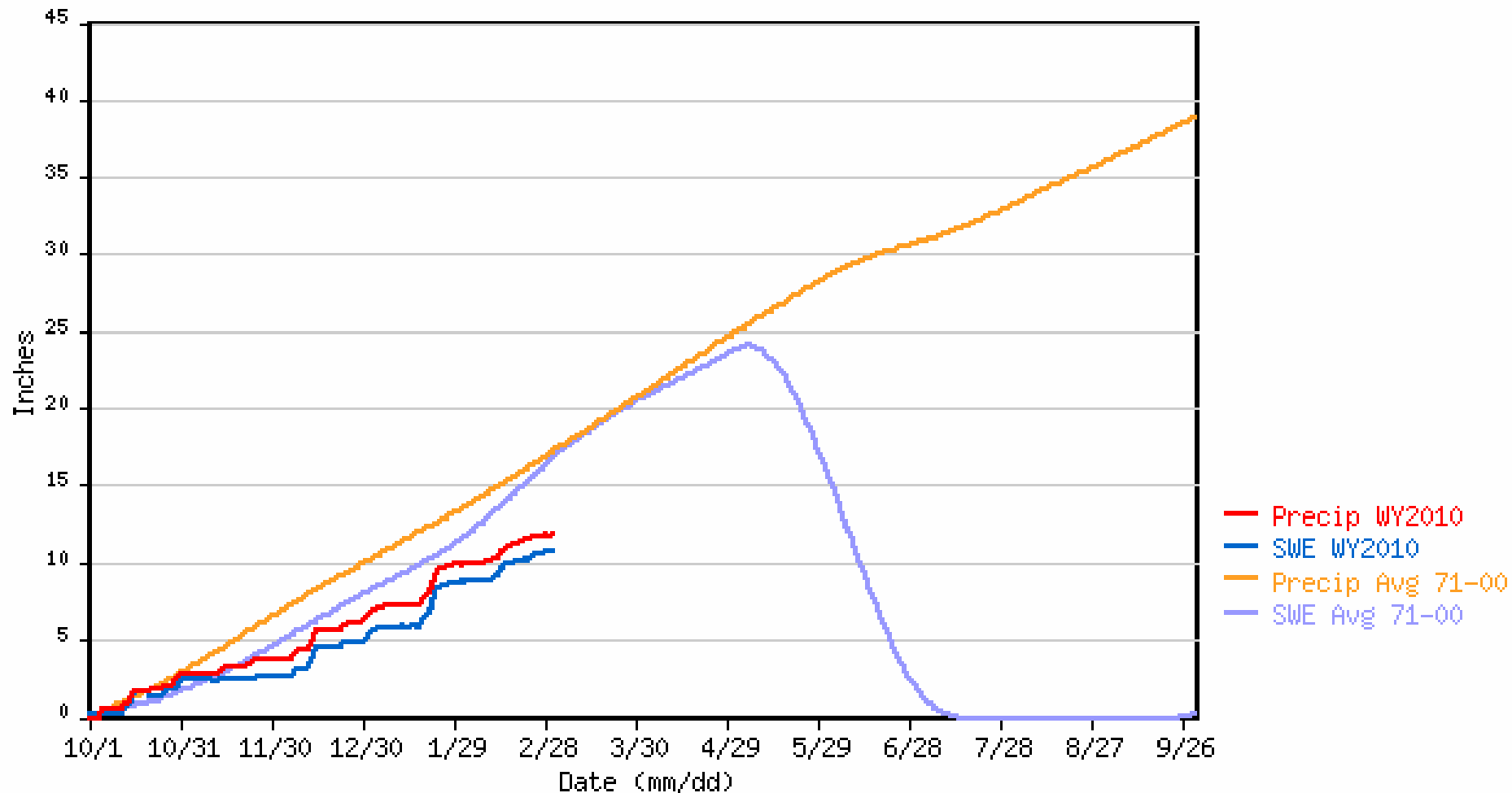
[view snotel plot >>](#)

LBNU1, Snow Point, 10900ft
10.6 in, 16.79 Avg, 63.1%, -0.1 in/dy
Observed on 2

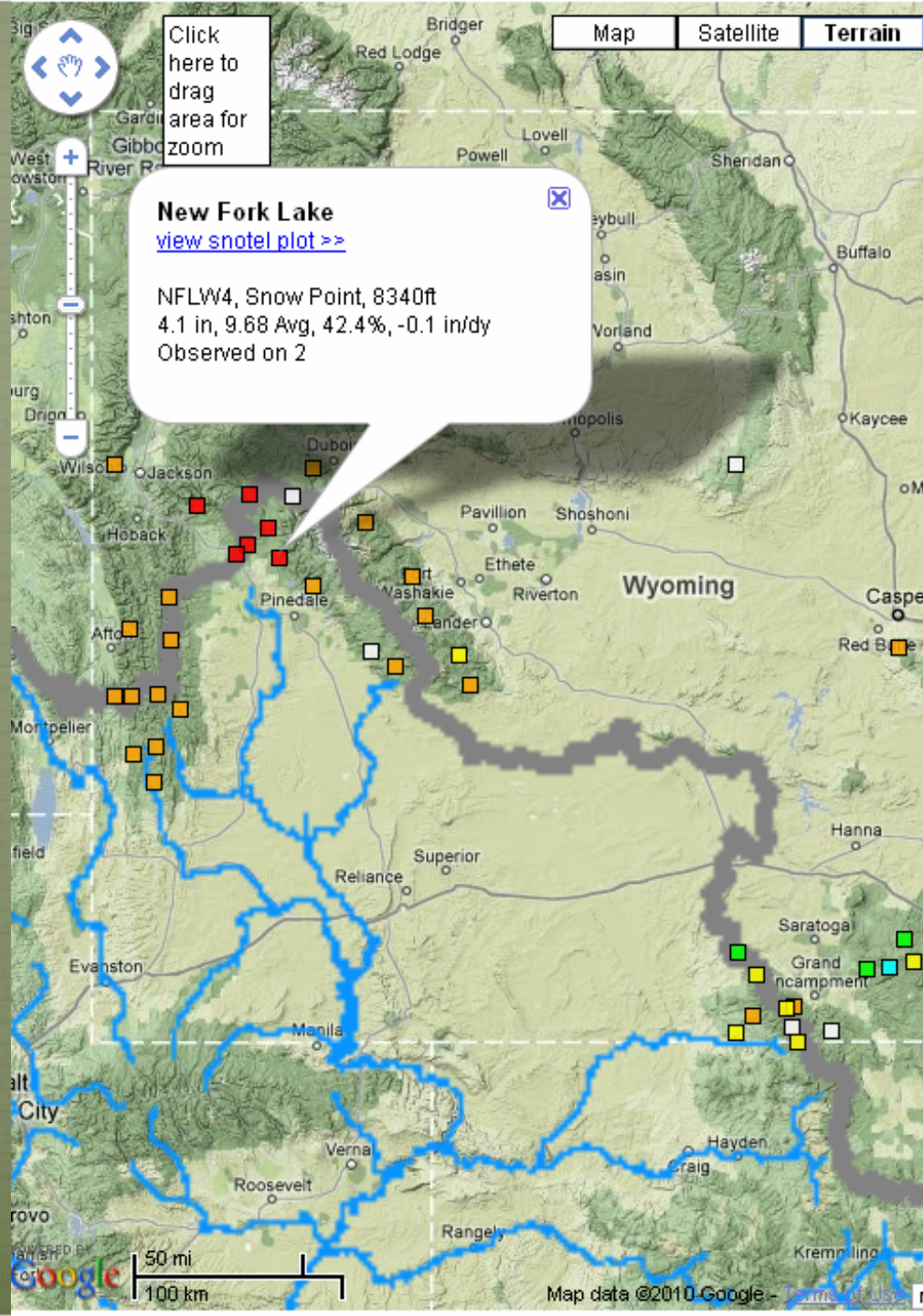


LAKEFORK BASIN SNOTEL for Water Year 2010

*** Provisional Data, Subject to Change ***

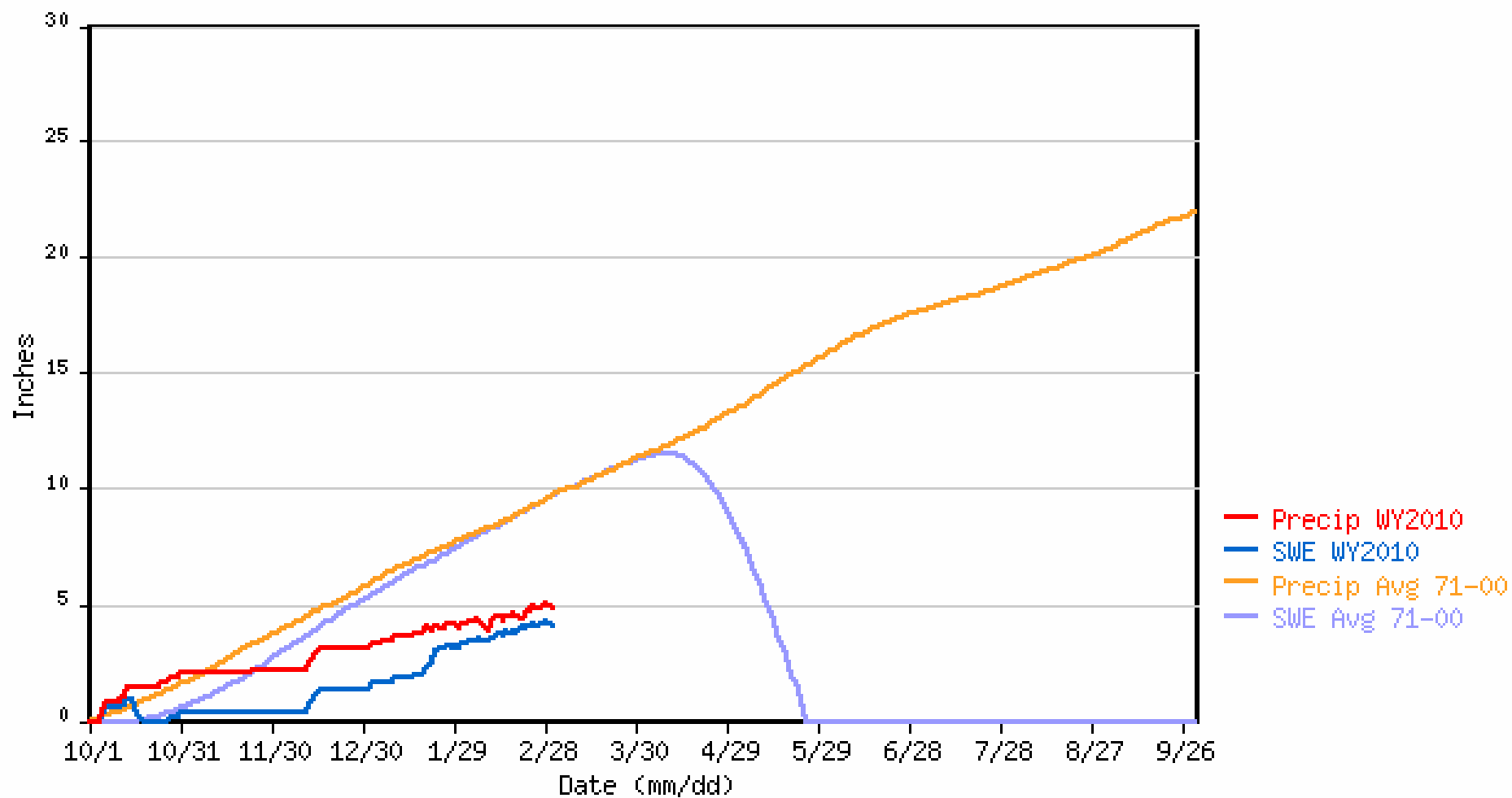


Snowpack: 63%
Elevation: 10,900 ft



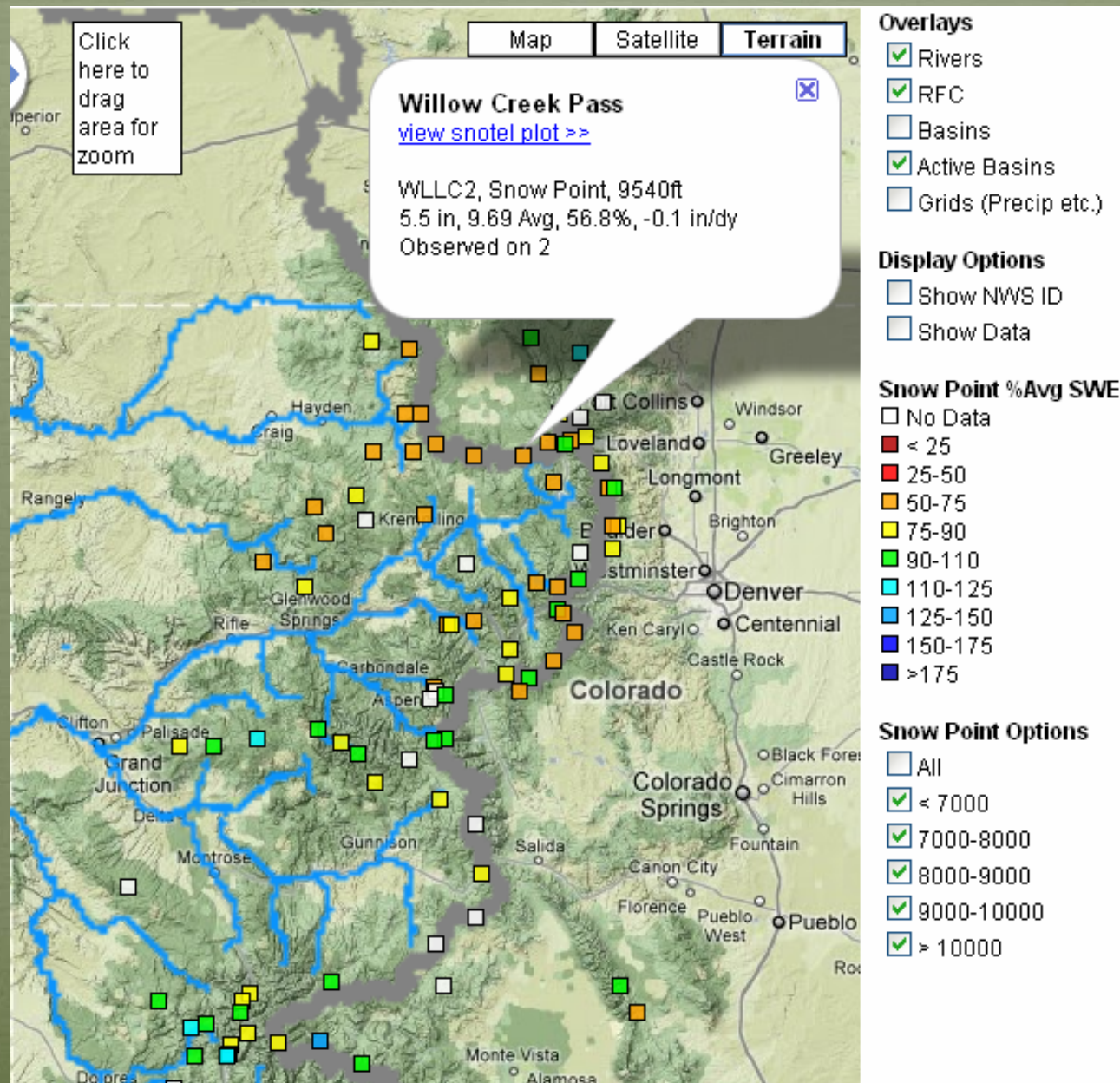
NEW FORK LAKE SNOTEL for Water Year 2010

*** Provisional Data, Subject to Change ***



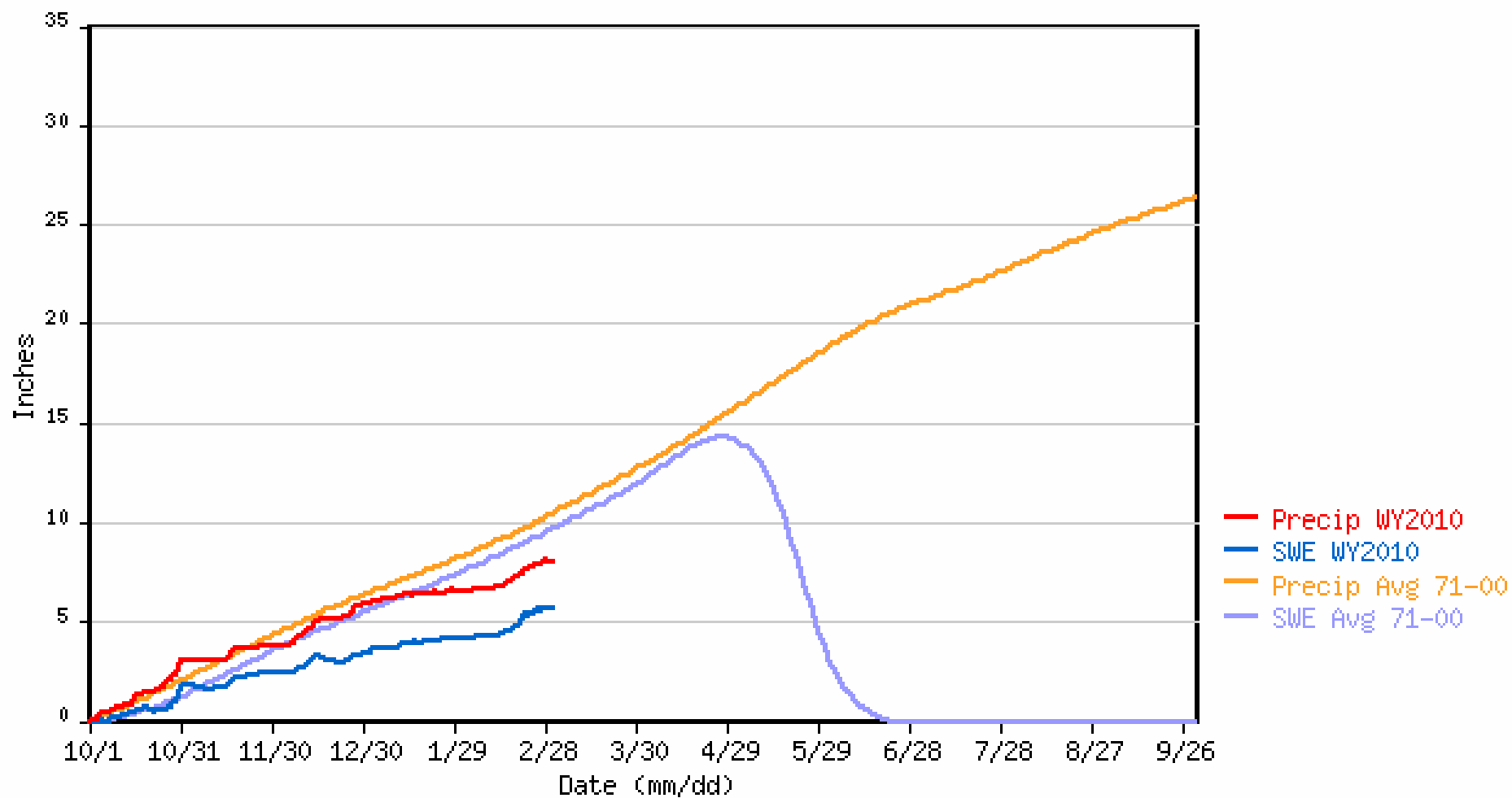
Snowpack: 42%
Elevation: 8,340 ft

Colorado SNOTEL



WILLOW CREEK PASS SNOTEL for Water Year 2010

*** Provisional Data, Subject to Change ***



Snowpack: 57%
Elevation: 9,540 ft

Click
here to
drag
area for
zoom

Map

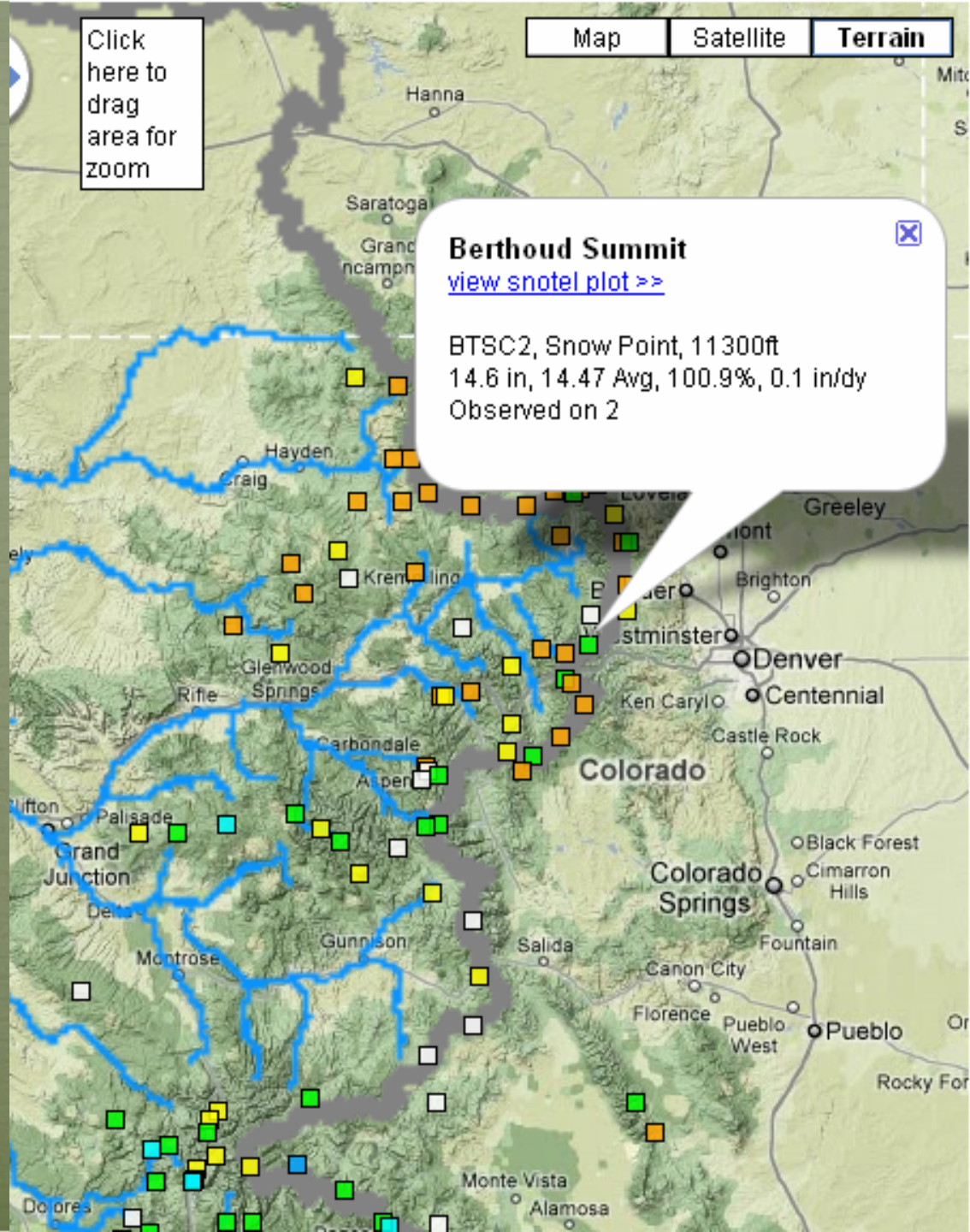
Satellite

Terrain

Berthoud Summit

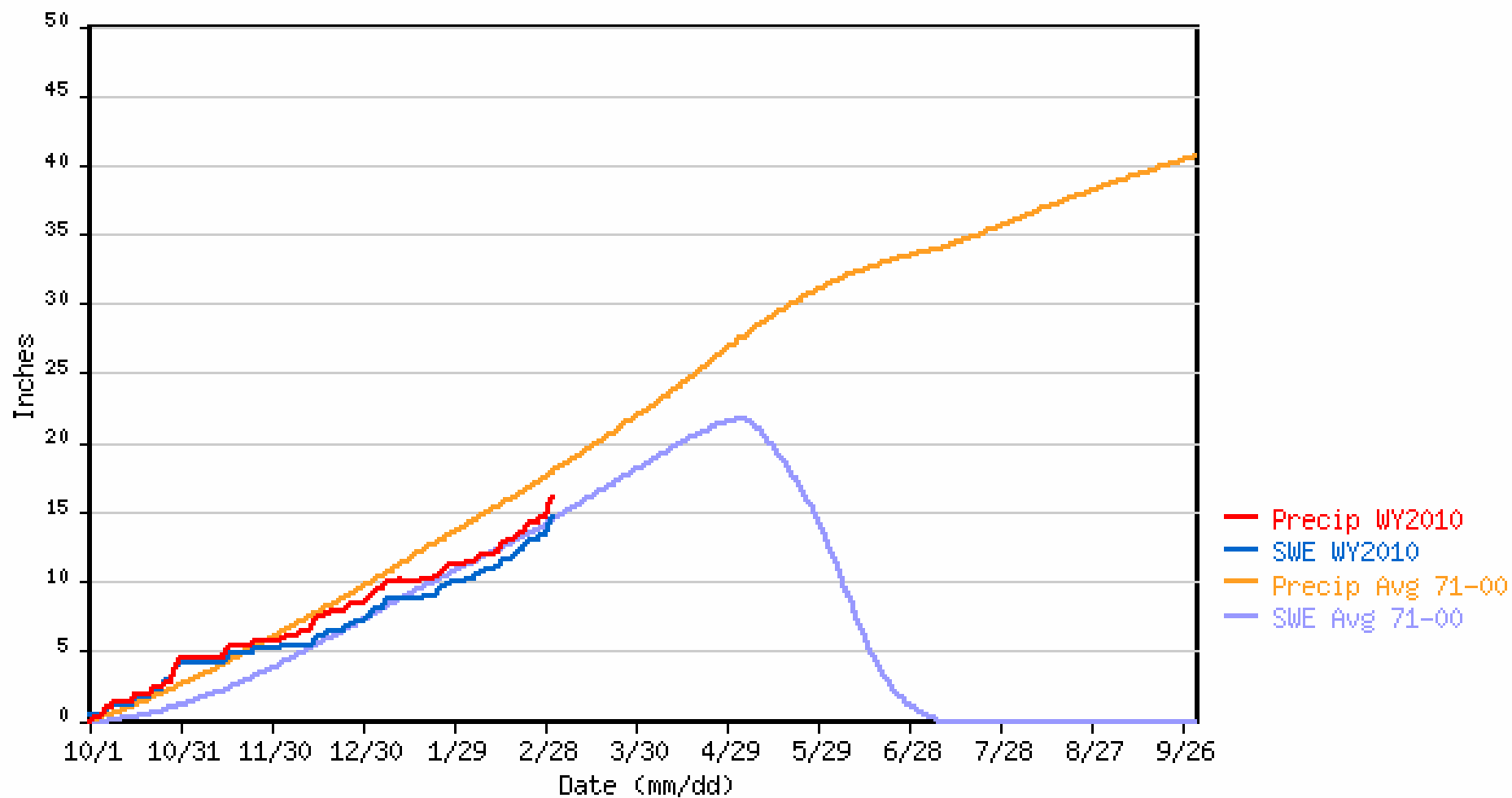
[view snotel plot >>](#)

BTSC2, Snow Point, 11300ft
14.6 in, 14.47 Avg, 100.9%, 0.1 in/dy
Observed on 2



BERTHOUD SUMMIT SNOTEL for Water Year 2010

*** Provisional Data, Subject to Change ***



Snowpack: 101%
Elevation: 11,300 ft

Click
here to
drag
area for
zoom

Map

Satellite

Terrain

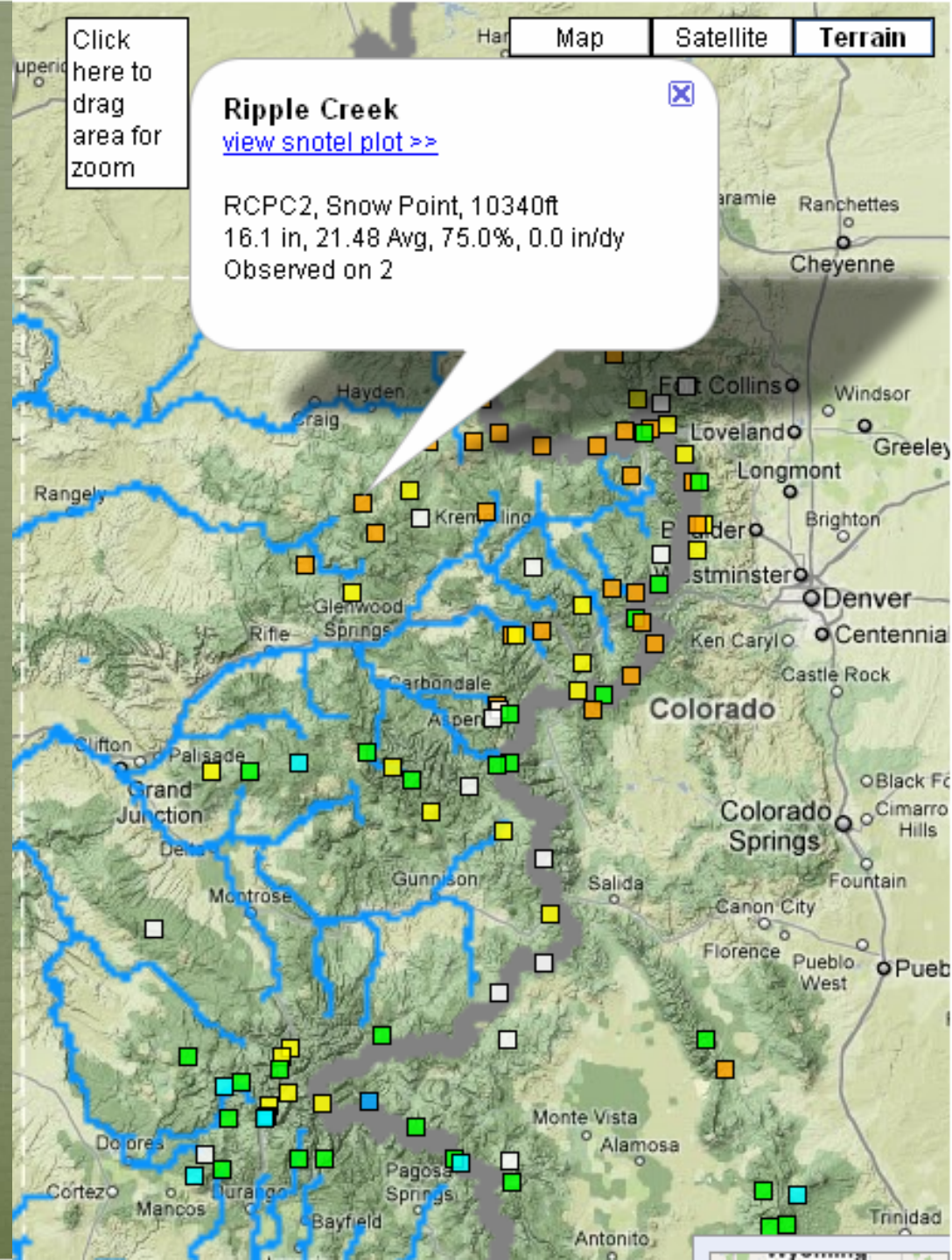
Ripple Creek

[view snotel plot >>](#)

RCPC2, Snow Point, 10340ft

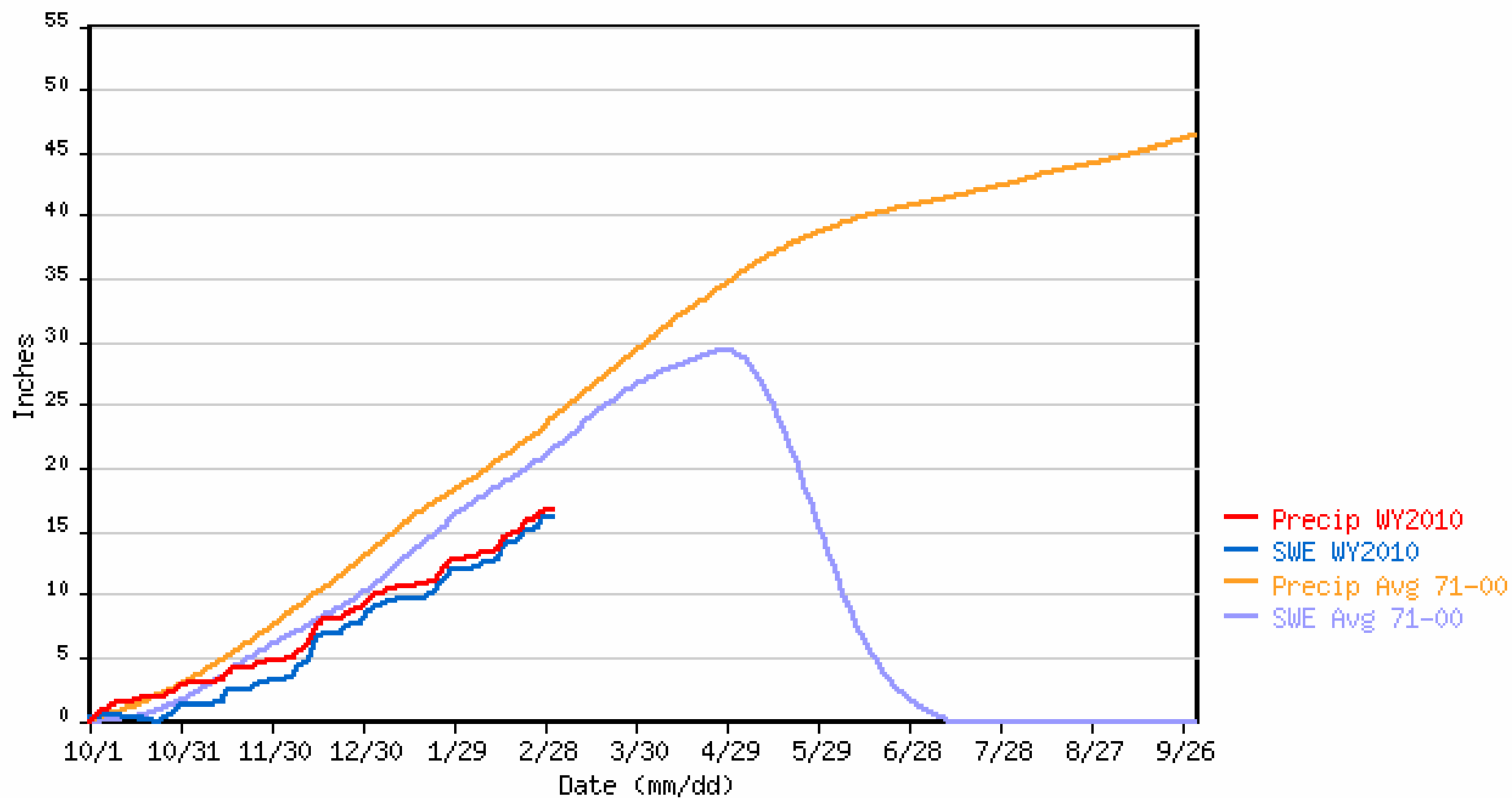
16.1 in, 21.48 Avg, 75.0%, 0.0 in/dy

Observed on 2



RIPPLE CREEK SNOTEL for Water Year 2010

*** Provisional Data, Subject to Change ***



Snowpack: 75%
Elevation: 10,340 ft

Click
here to
drag
area for
zoom

Map

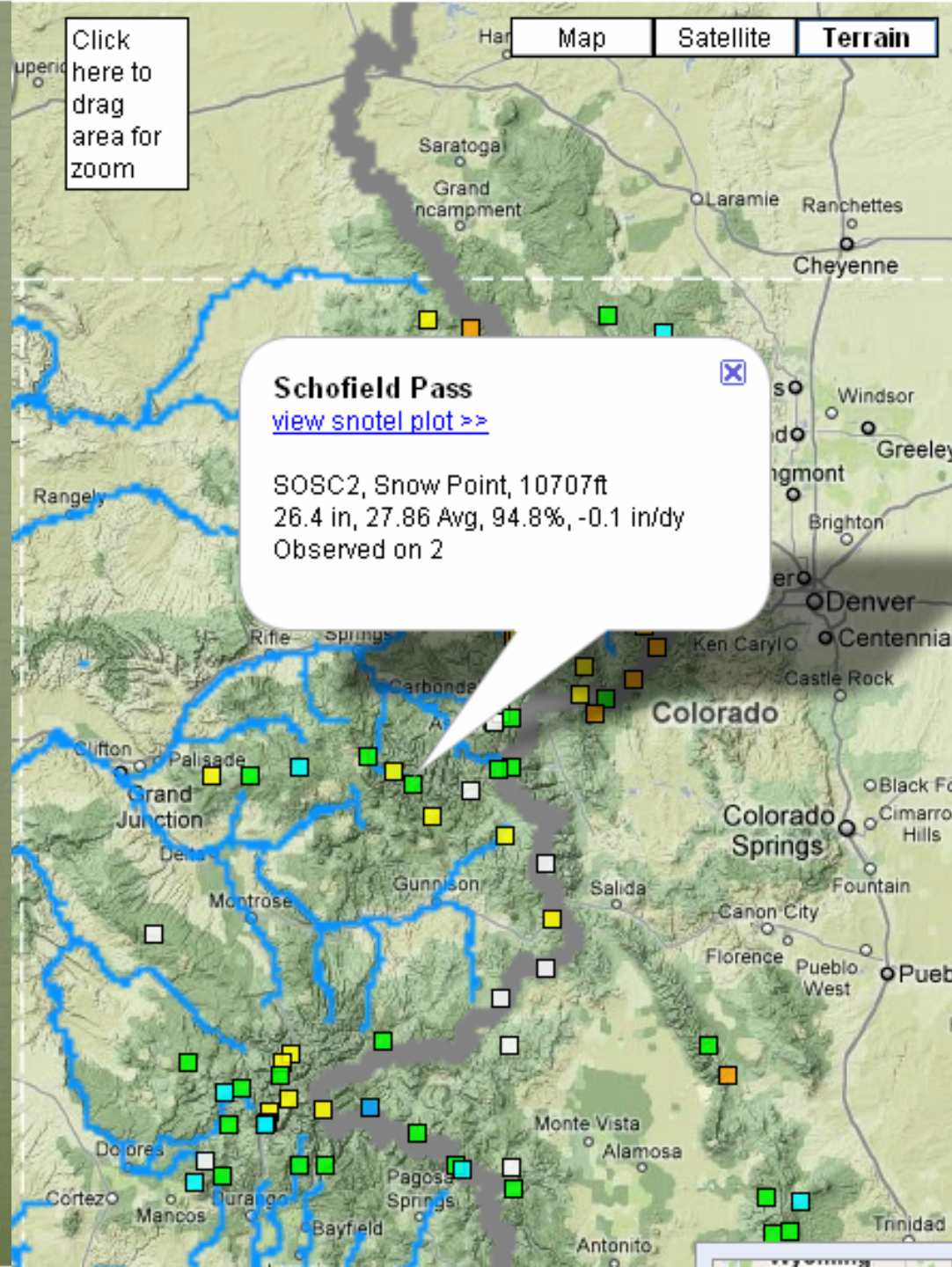
Satellite

Terrain

Schofield Pass

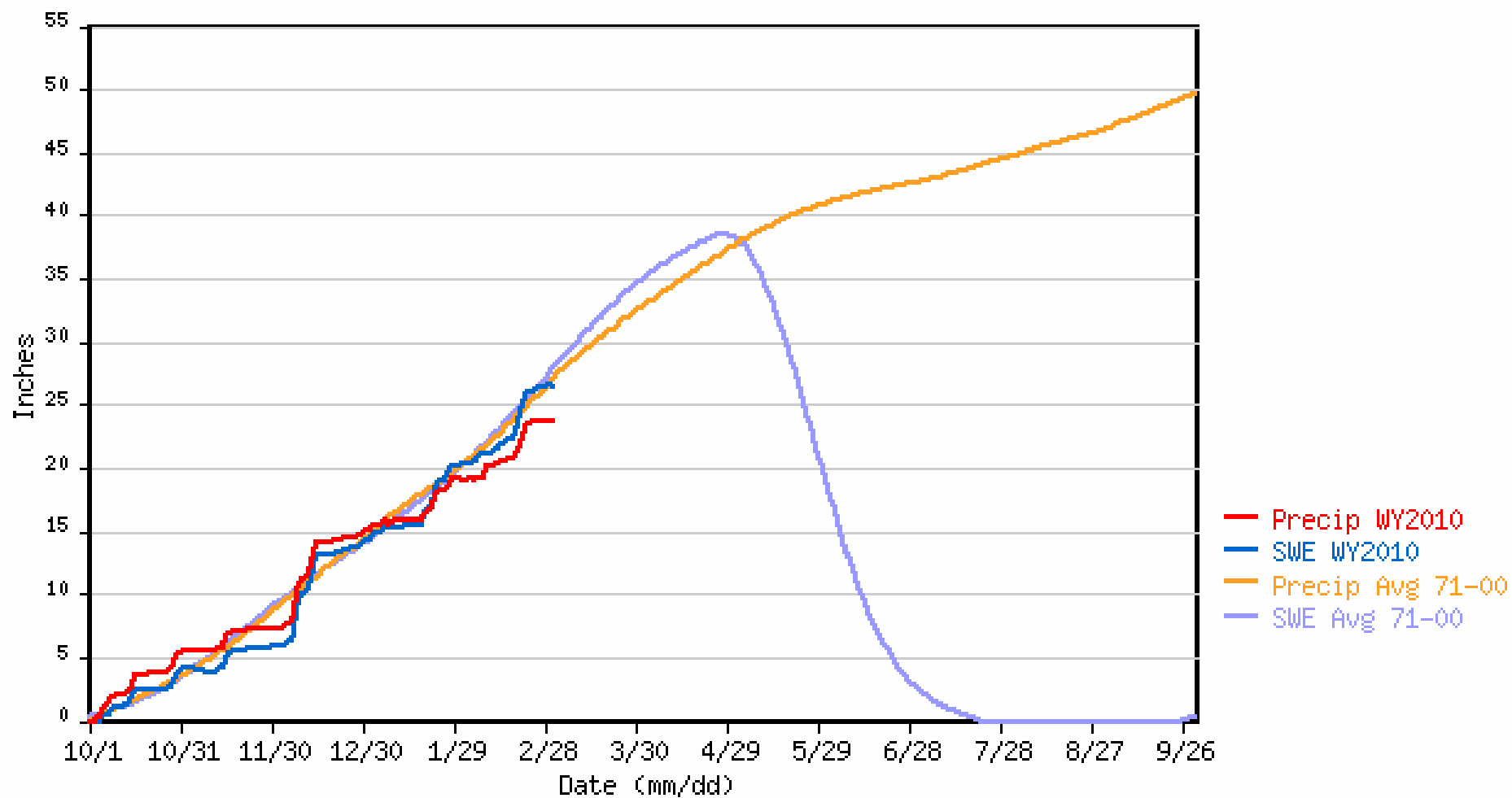
[view snotel plot >>](#)

SOSC2, Snow Point, 10707ft
26.4 in, 27.86 Avg, 94.8%, -0.1 in/dy
Observed on 2



SCHOFIELD PASS SNOTEL for Water Year 2010

*** Provisional Data, Subject to Change ***



Snowpack: 95%
Elevation: 10,707 ft

Click
here to
drag
area for
zoom

Map

Satellite

Terrain

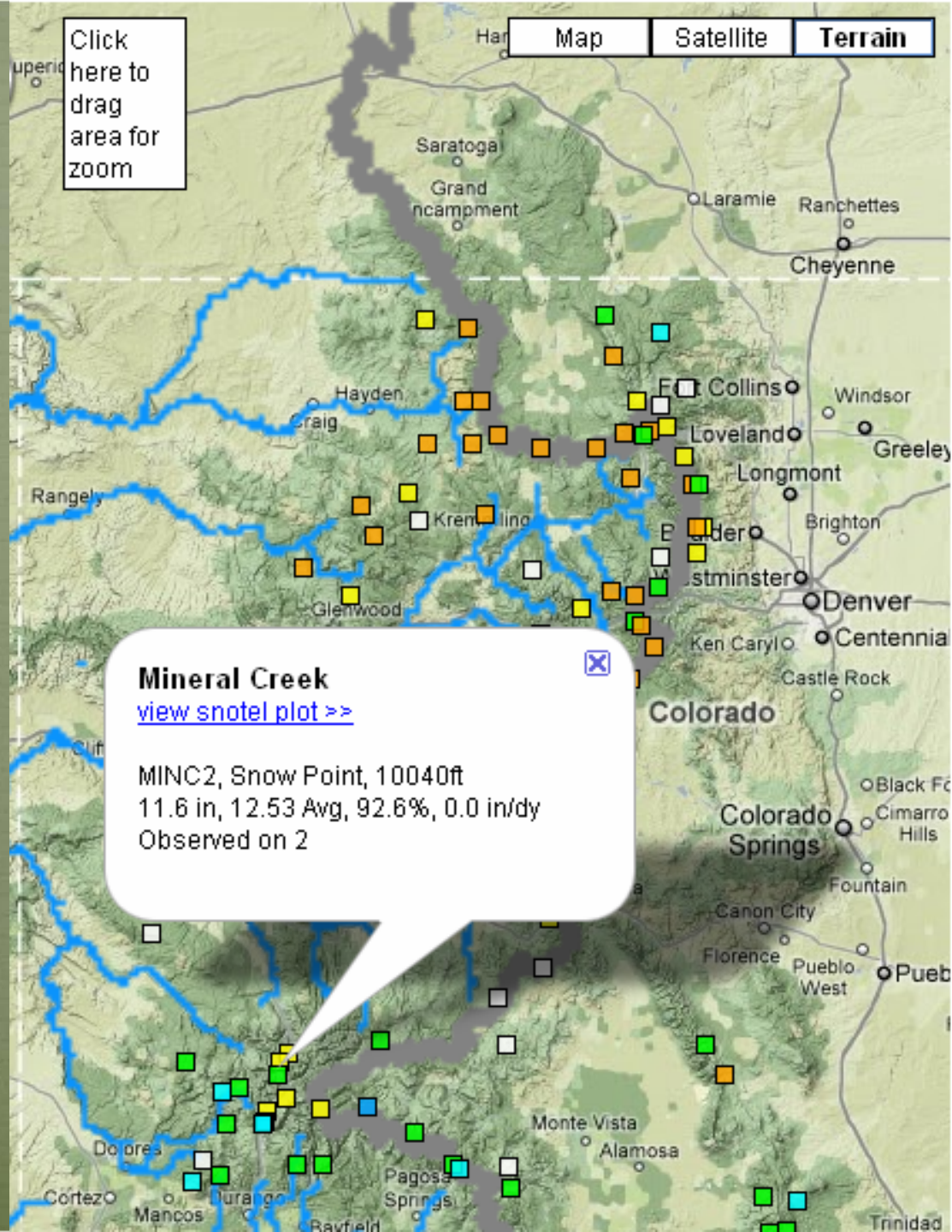
Mineral Creek

[view snotel plot >>](#)

MINC2, Snow Point, 10040ft

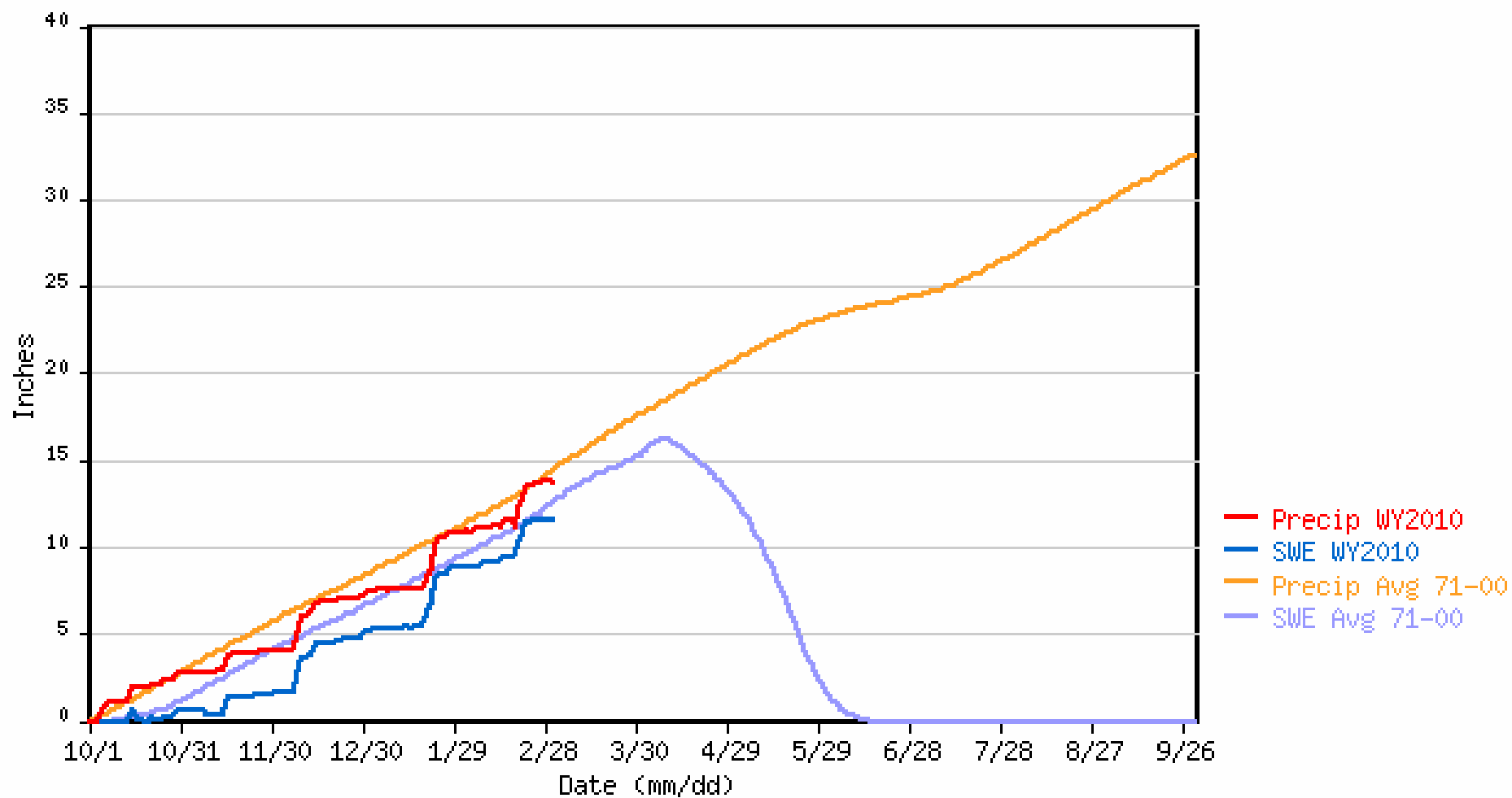
11.6 in, 12.53 Avg, 92.6%, 0.0 in/dy

Observed on 2



MINERAL CREEK SNOTEL for Water Year 2010

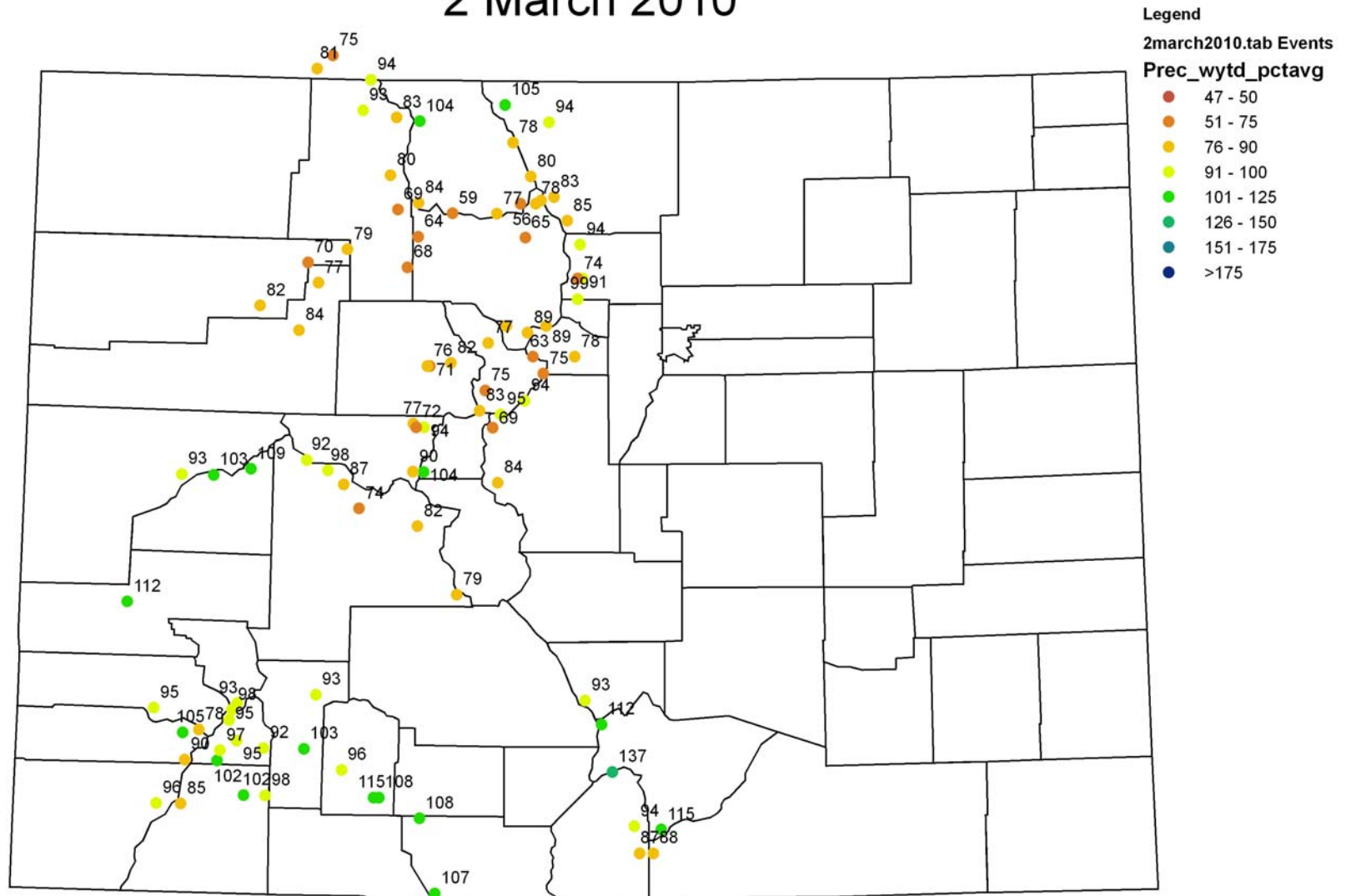
*** Provisional Data, Subject to Change ***



Snowpack: 93%
Elevation: 10,040 ft

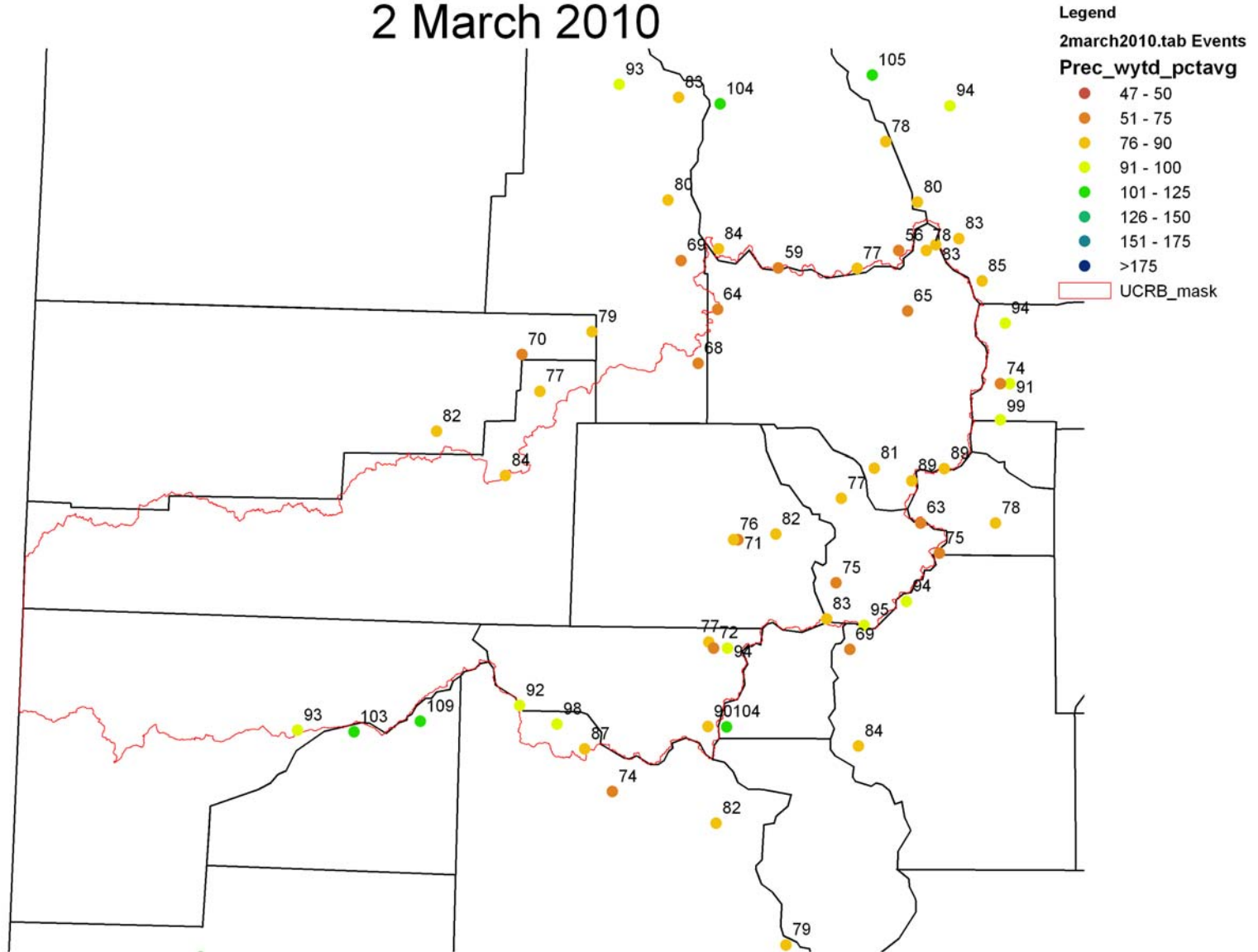
Snotel WYTD Precipitation % Average

Snotel WYTD Precipitation as Percent of Average 2 March 2010



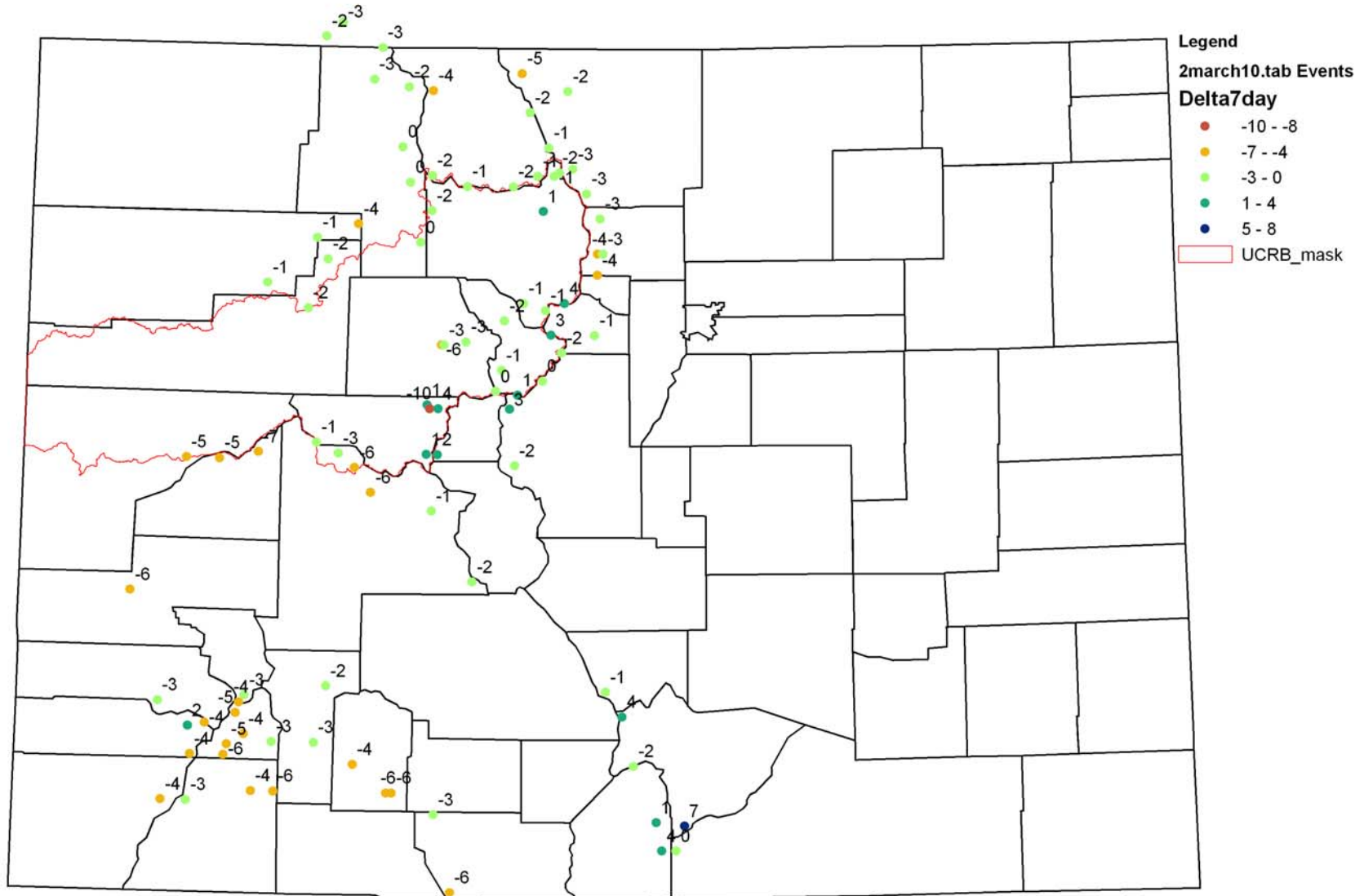
Snotel WYTD Precipitation % Average

Snotel WYTD Precipitation as Percent of Average 2 March 2010



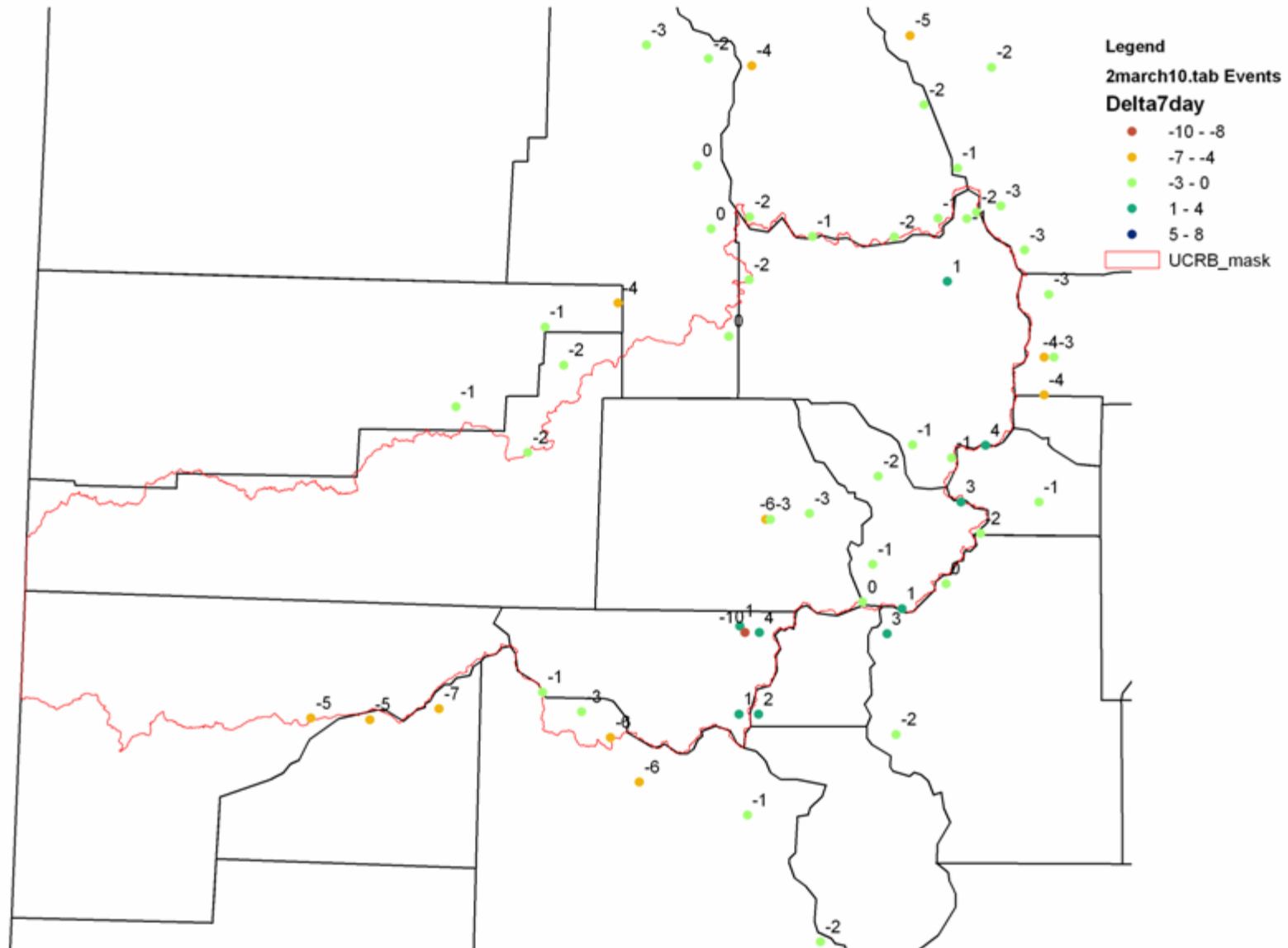
Snotel WYTD Precipitation % Average 1 Week Change

Snotel WYTD Precipitation % Avg 1 Week Change 2 March 2010



Snotel WYTD Precipitation % Average 1 Week Change

Snotel WYTD Precipitation % Avg 1 Week Change
2 March 2010

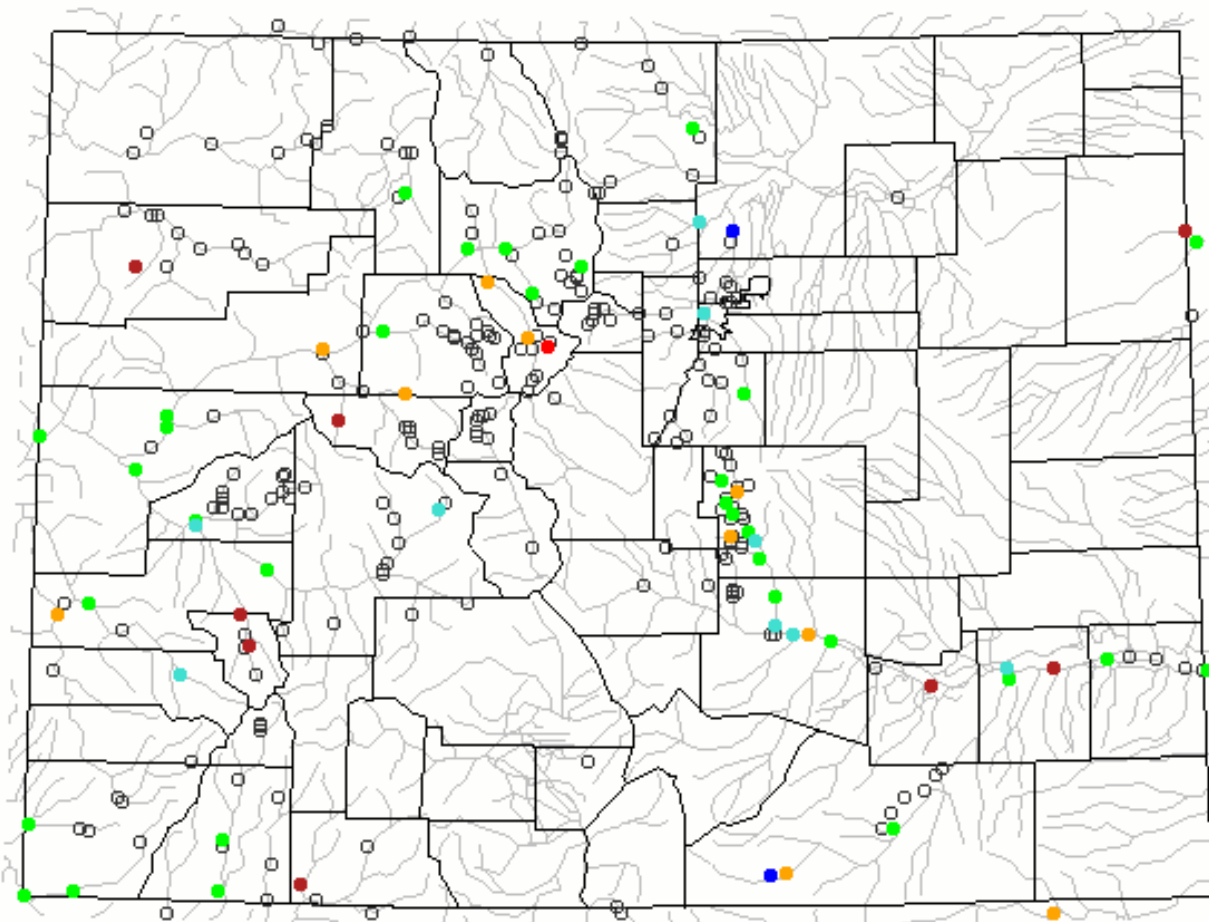


Streamflow Update



Streamflow 23 February 2010

Tuesday, March 02, 2010 09:30ET



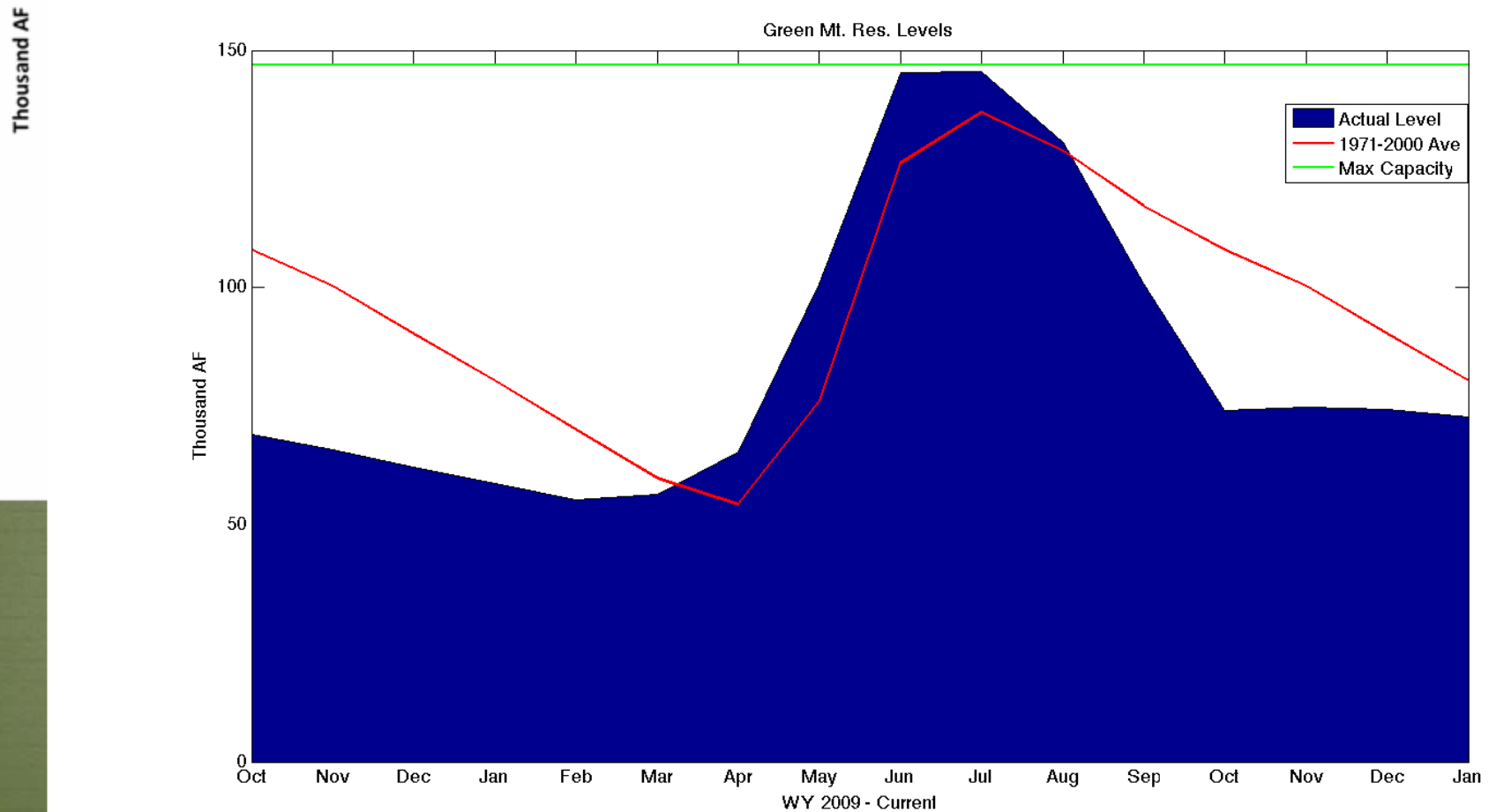
Explanation - Percentile classes

						
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

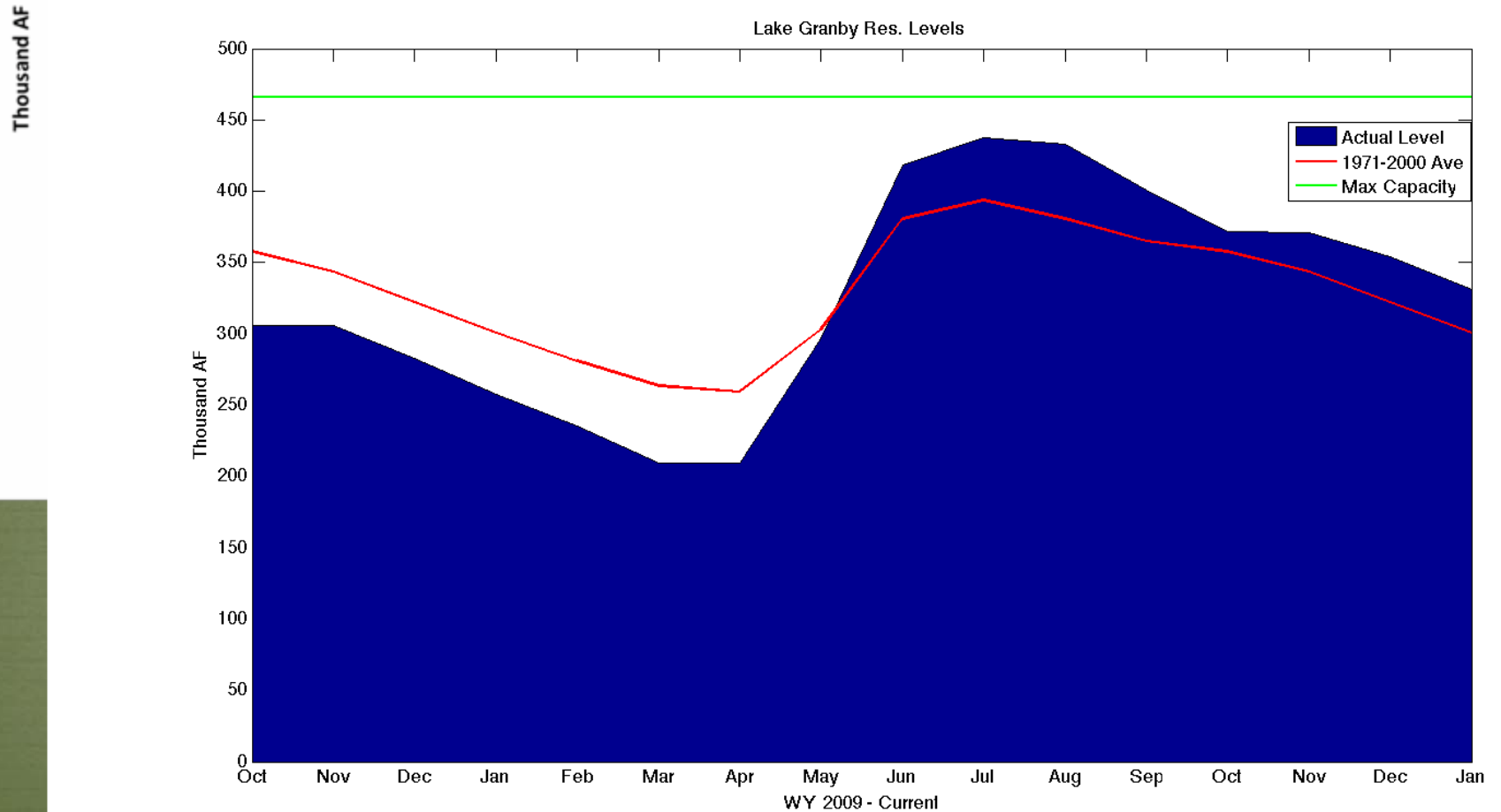
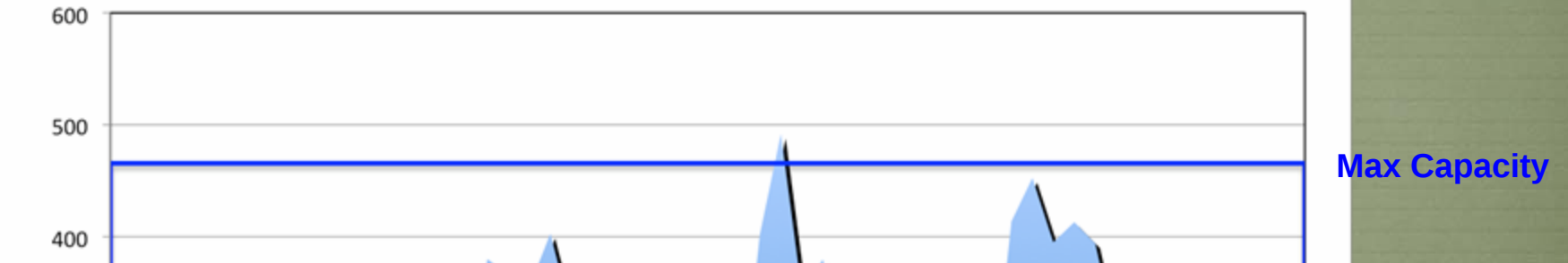
Reservoir Update



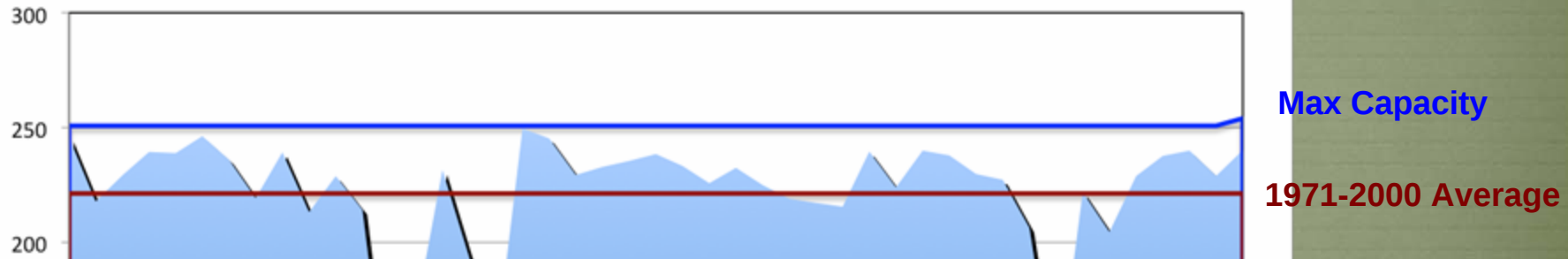
Green Mountain January Reservoir Storage



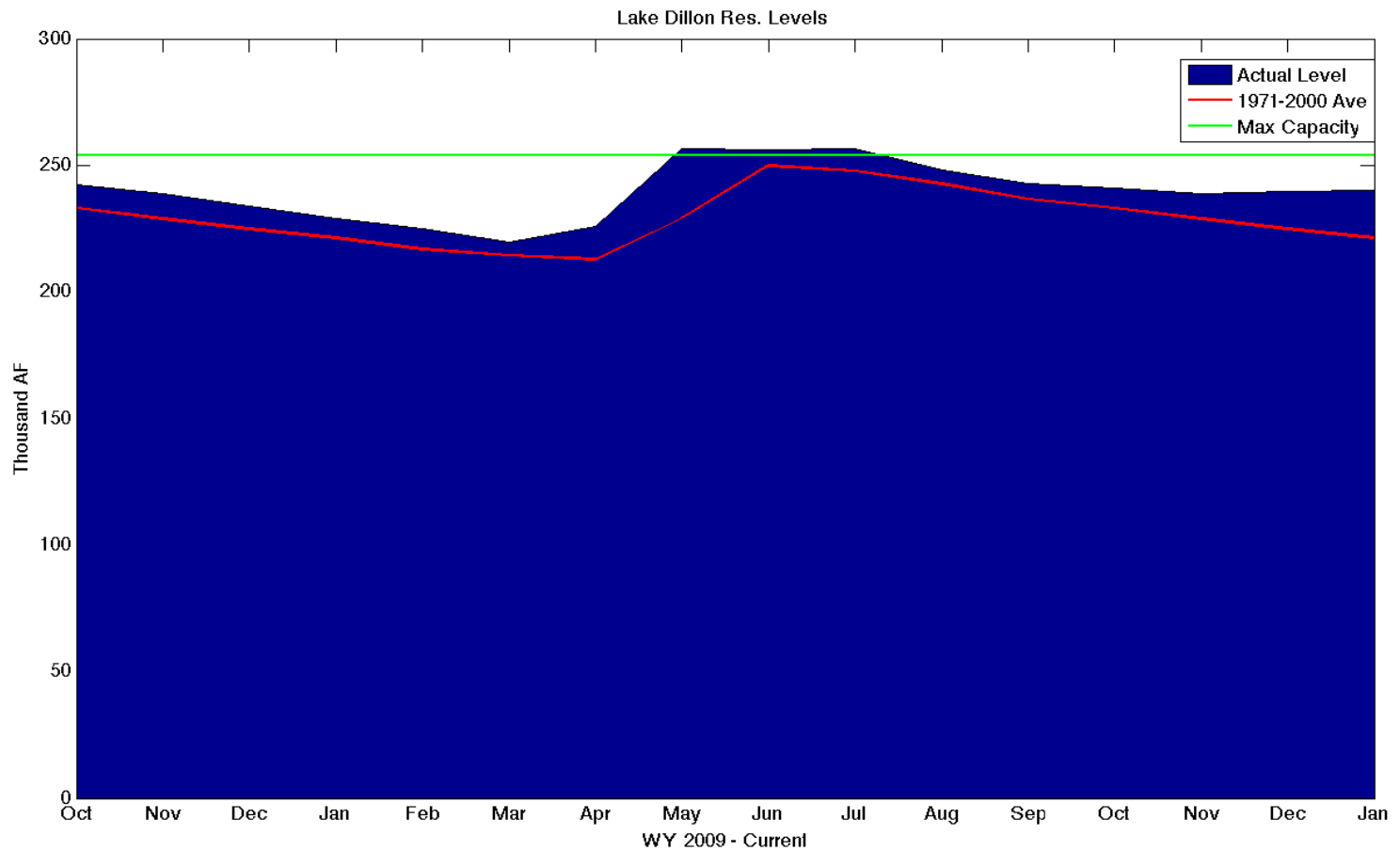
Lake Granby January Reservoir Storage



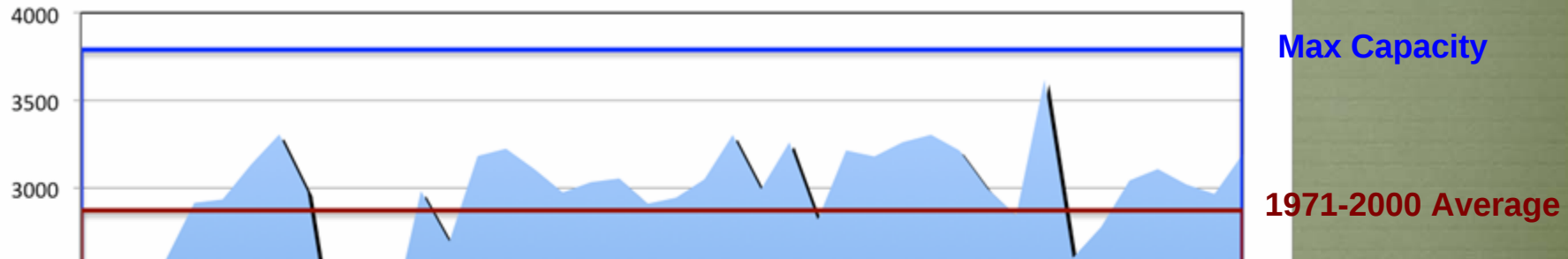
Lake Dillon January Reservoir Storage



Thousand AF

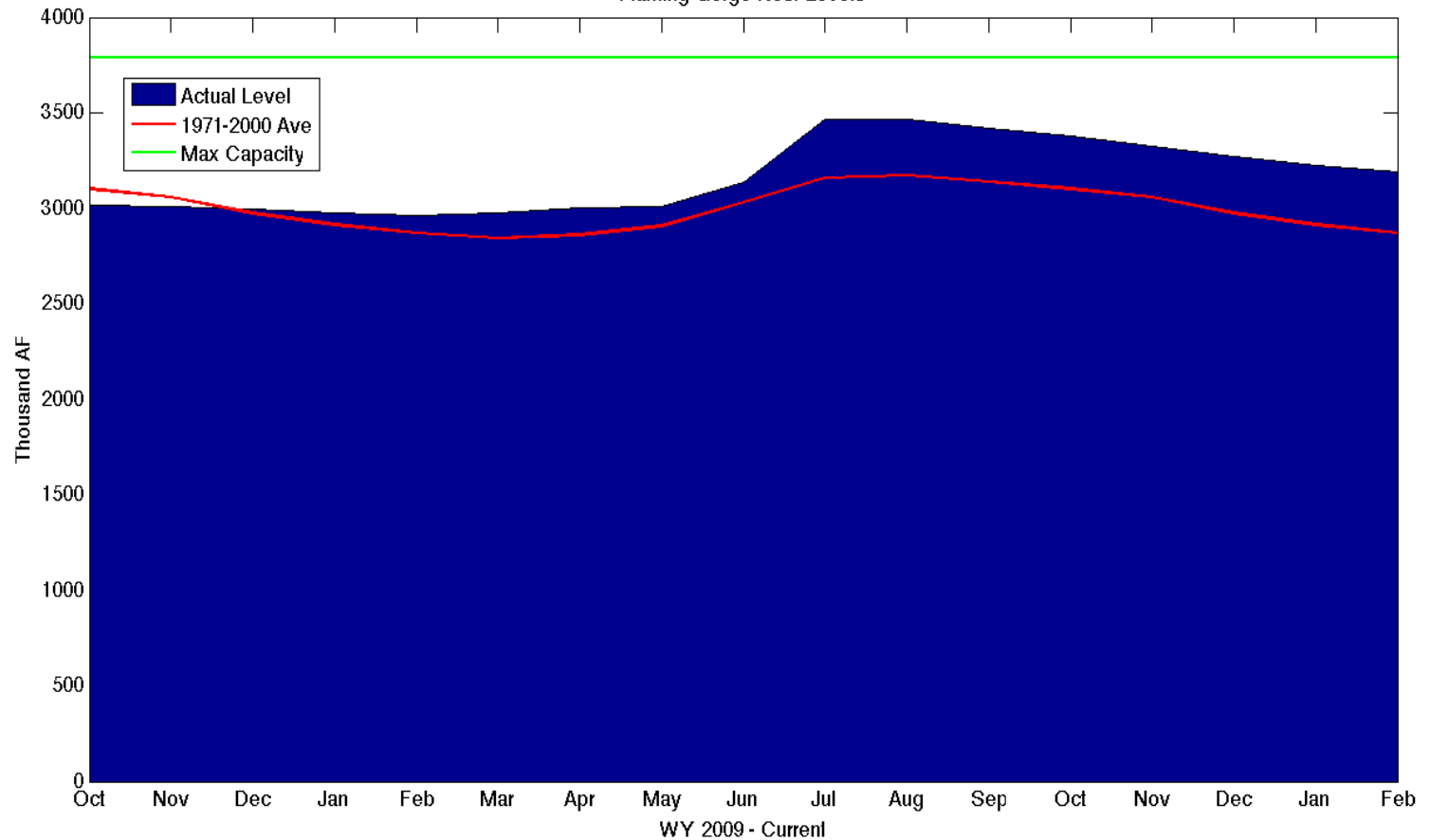


Flaming Gorge February Reservoir Storage



Thousand AF

Flaming Gorge Res. Levels

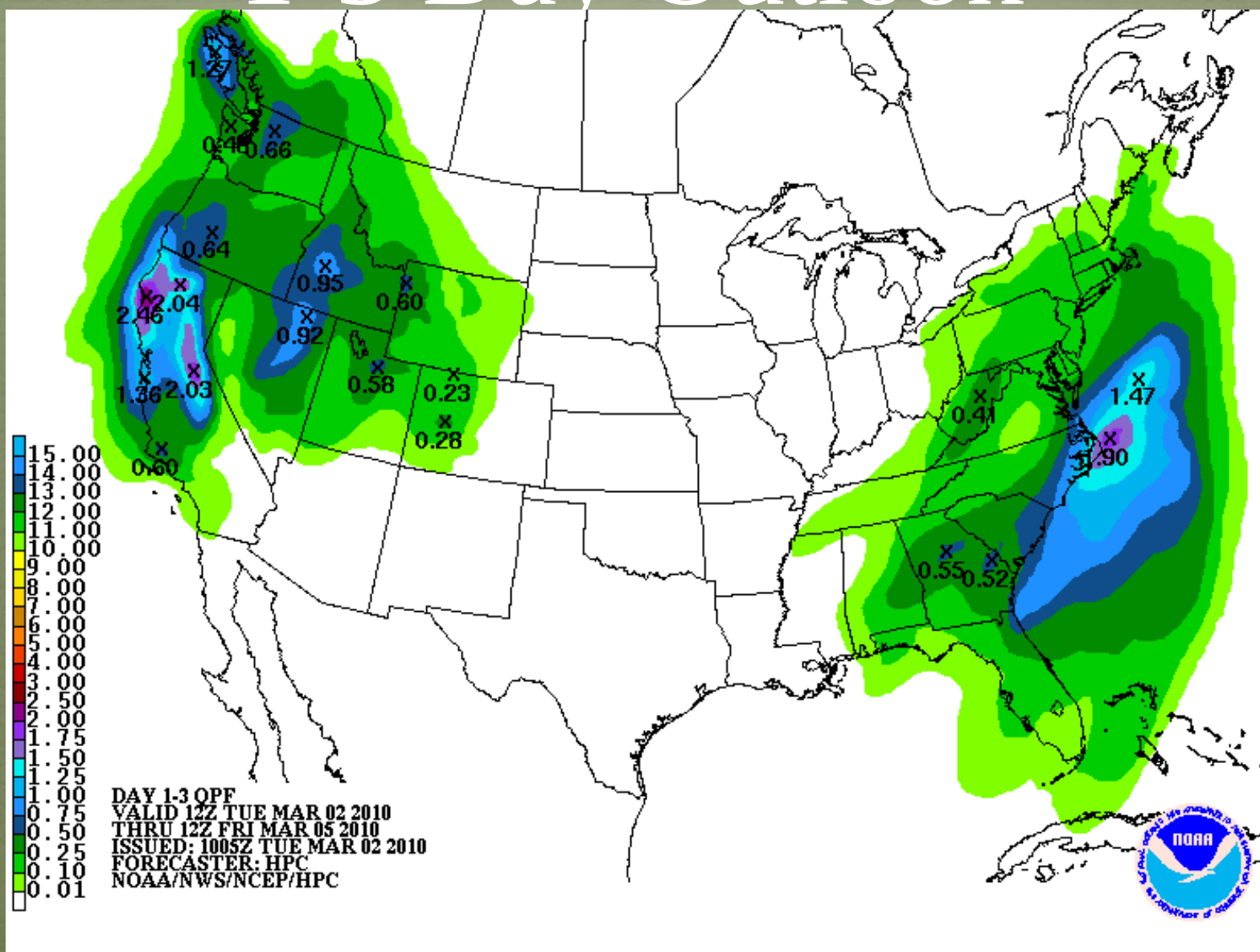


WY 2009 - Current

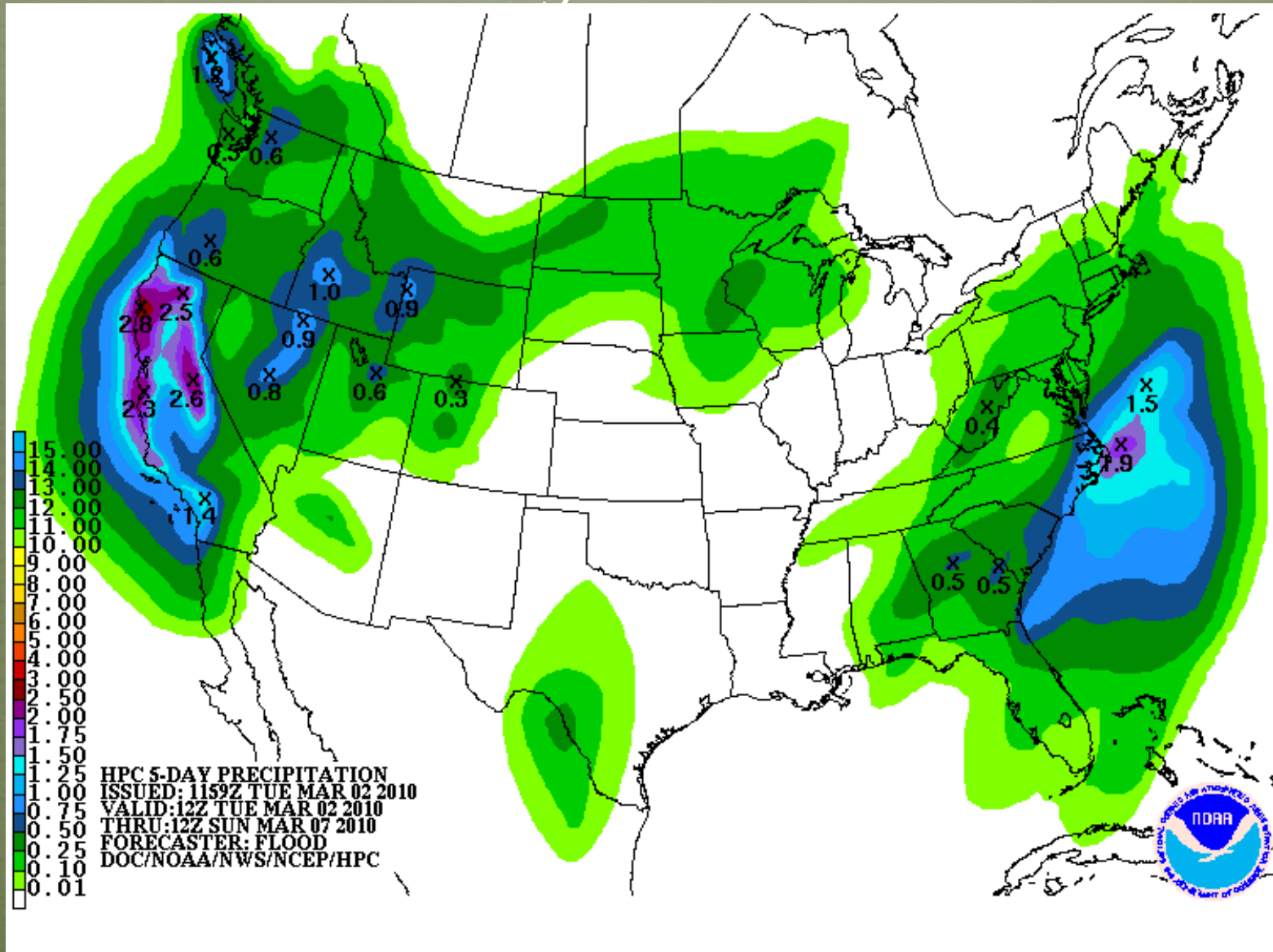
Precipitation Forecast



1-3 Day Outlook

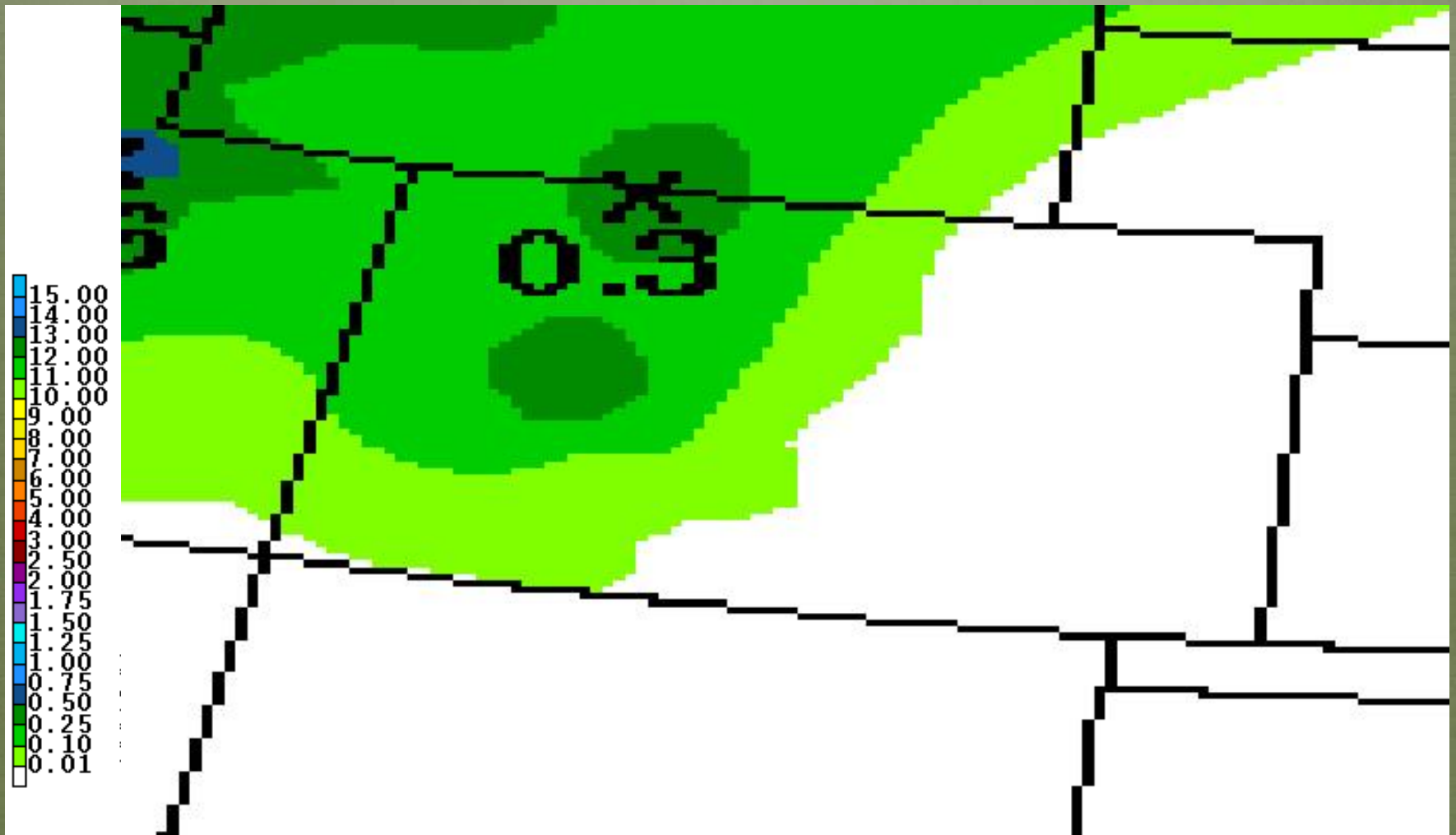


5 Day Outlook



<http://www.hpc.ncep.noaa.gov/>

5 Day Outlook Colorado

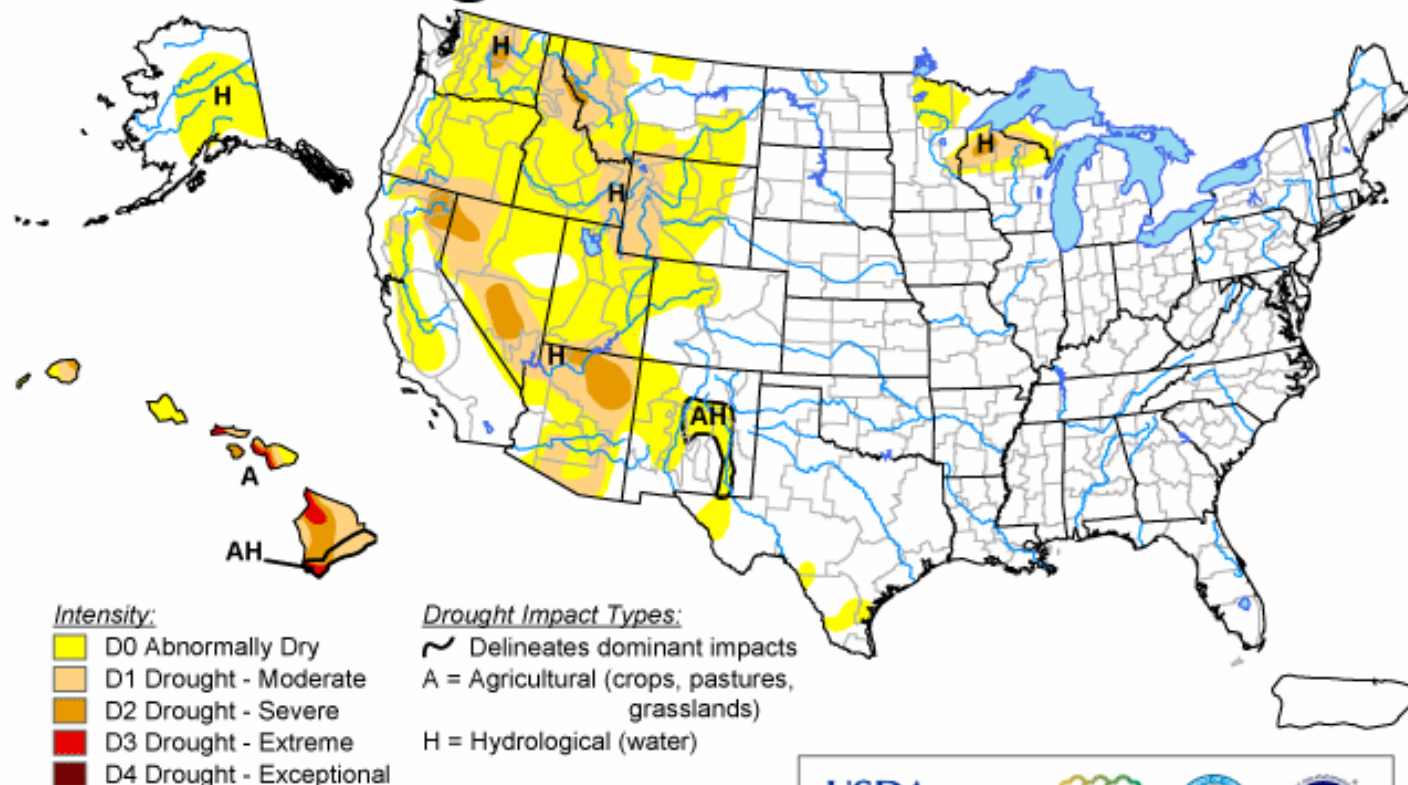


<http://www.hpc.ncep.noaa.gov/>

Recommendations

U.S. Drought Monitor

February 23, 2010
Valid 7 a.m. EST

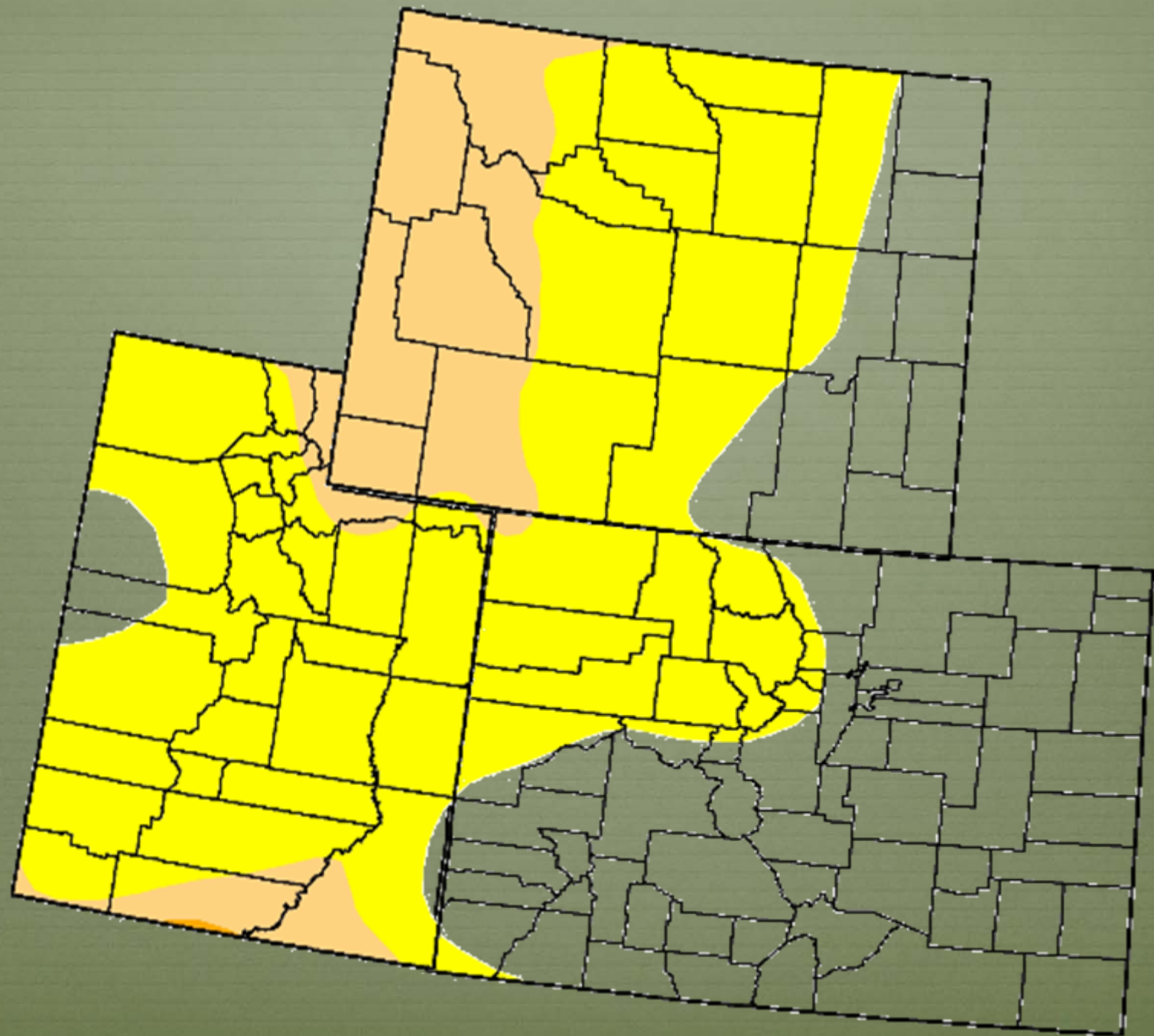


The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>



Released Thursday, February 25, 2010
Author: Brad Rippey, U.S. Department of Agriculture



Decisions

- ❖ In light of the recent moisture in Grand County, the decision was made to leave the Drought Monitor at the Status Quo for this week.

OPEN



CONTACT:

COLORADO CLIMATE CENTER

COLORADO STATE UNIVERSITY

FORT COLLINS, CO 80523

970 - 491 - 8545

NIDIS - UPPER COLORADO BASIN PILOT PROJECT

For more information

Summary

- ❖ Modest amounts of precipitation fell last week over much of the state, including the northern and central mountains. For the month of February, over 100% of normal precipitation fell along the eastern plains. The driest areas were Moffat county, south around the Rio Grande basin, and through much of the Upper Colorado River basin. Conditions continue to look very dry for western WY and drier than average for northeastern UT. Water-Year-to-date snotel precipitation changes over the last week show slight decreases in percentages throughout most of CO, though basin-wide percentages have stayed fairly steady.

Two fairly minor systems are forecast to move through the region--the first around Thursday and the second late Sunday into Monday. Both systems look to bring only minor amounts of precipitation to the high country and dry regions. A couple of concerns were voiced about the systems this week. The first issue is that a fairly strong ridge has settled in to the area, bringing with it warm and dry conditions. Second, as the first trough moves through the area, there is the threat of high wind. Both these storm tracks have the possibility of being fairly active, but there is a good chance that conditions could deteriorate this week.

The consensus of the webinar/conference call is to continue in "wait-and-see" mode for the Grand and Summit county areas. It was suggested that even if we introduced some D1 into this small area of the state, it would not be detectable on the national drought map. Also, with the continued passage of storms through the area--though only minor improvements have been seen--conditions have leveled off with little degradation. No other changes were suggested for the current DM map of the tri-state region, though we missed the company of our neighbor states on the call. If they have anything they would like to add, we would greatly appreciate their emails! If no other suggestions are made, it seems that it will be status-quo for the week.

- ❖ Becky