

NRCS – Snow Survey & Water Supply Forecasting

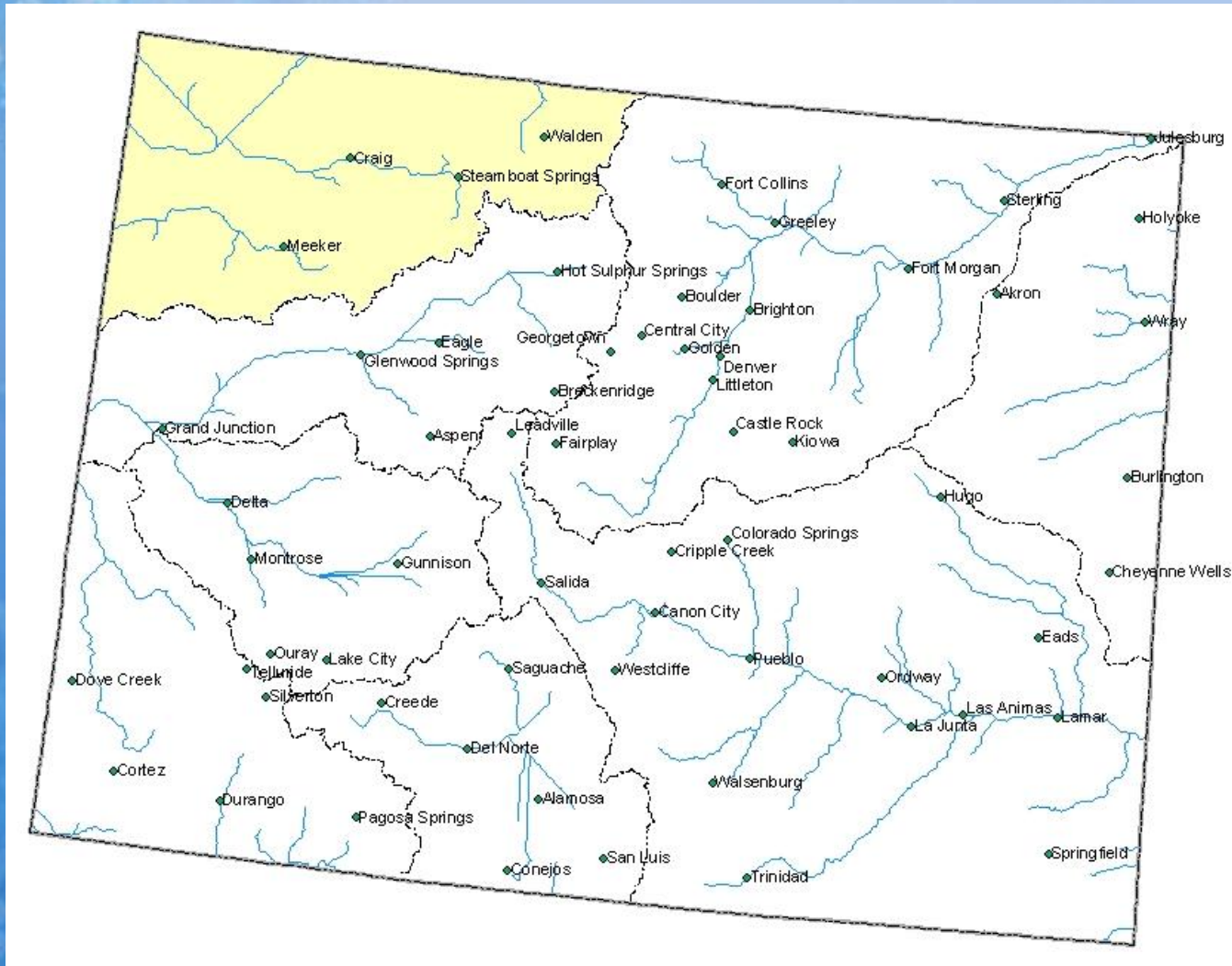
Mike Gillespie

Water Availability Task Force Meeting
June 23, 2010

June 2010
Floods to Fires
in the same month...

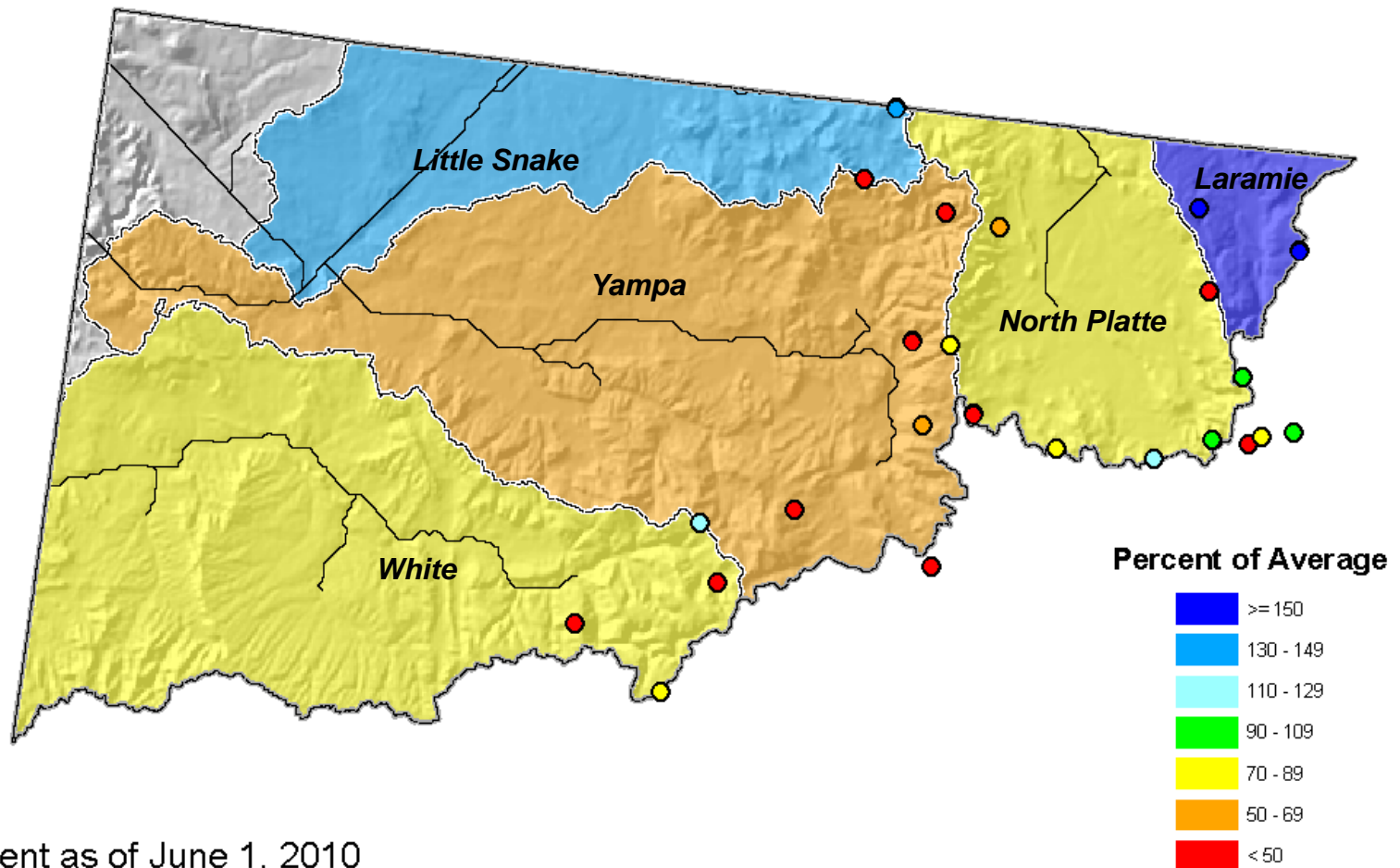


Yampa, White & North Platte River Basins Summary



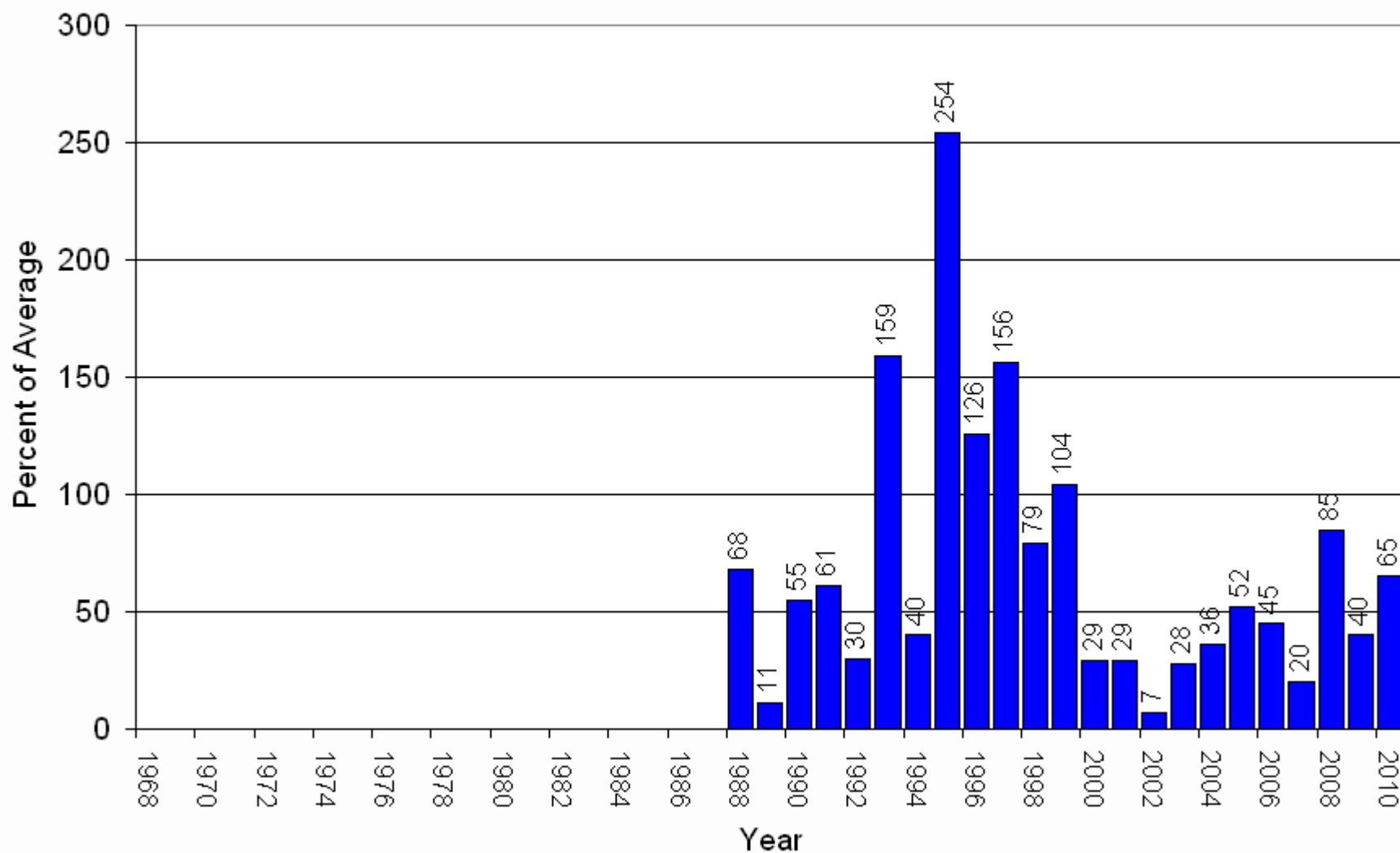
Yampa, White and North Platte River Basins Snowpack Map

*Provisional Data
Subject to Revision*



Current as of June 1, 2010

June 1 Total Yampa & White River Basins Snowpack



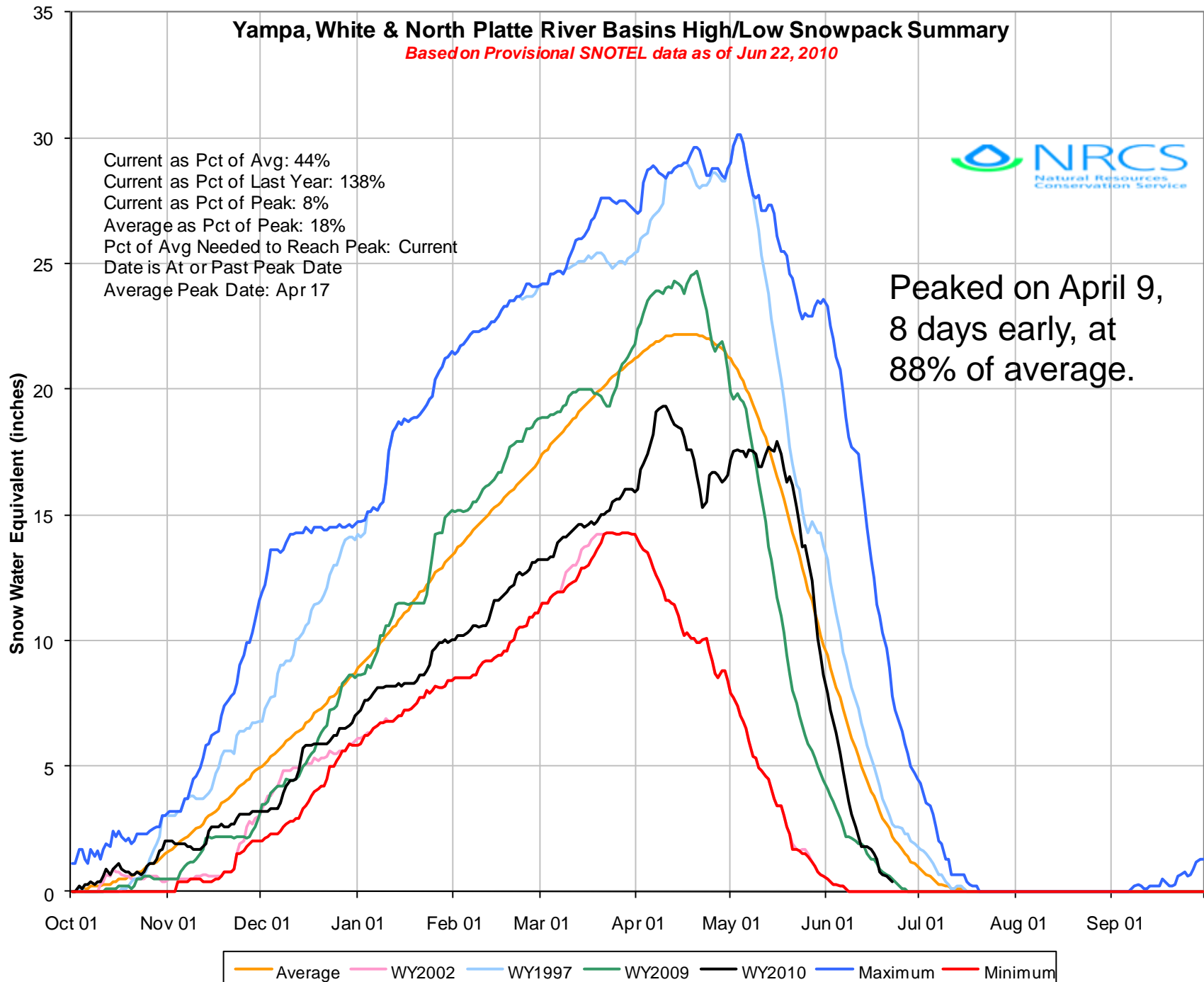
Yampa, White & North Platte River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 22, 2010



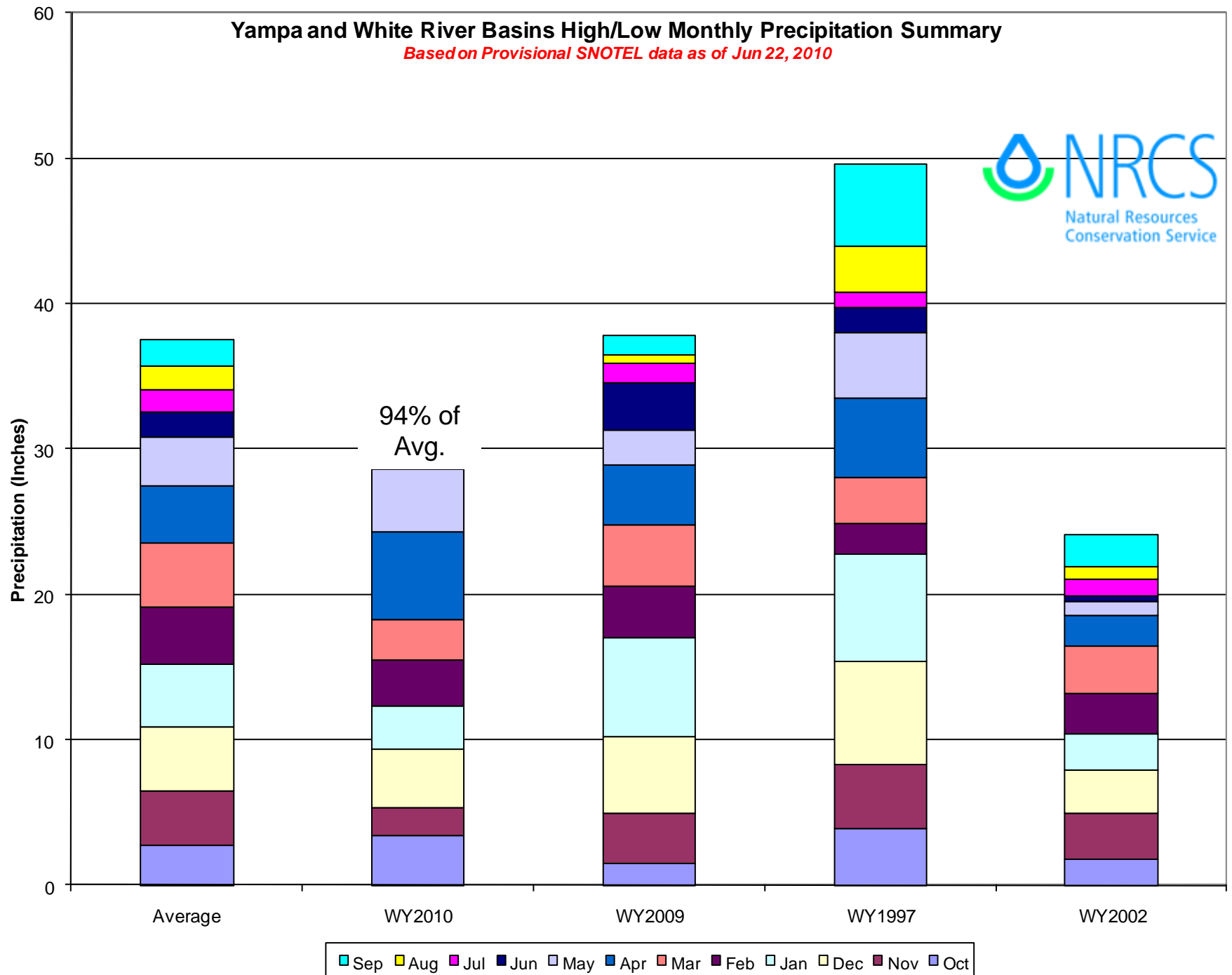
Current as Pct of Avg: 44%
Current as Pct of Last Year: 138%
Current as Pct of Peak: 8%
Average as Pct of Peak: 18%
Pct of Avg Needed to Reach Peak: Current
Date is At or Past Peak Date
Average Peak Date: Apr 17

Peaked on April 9,
8 days early, at
88% of average.



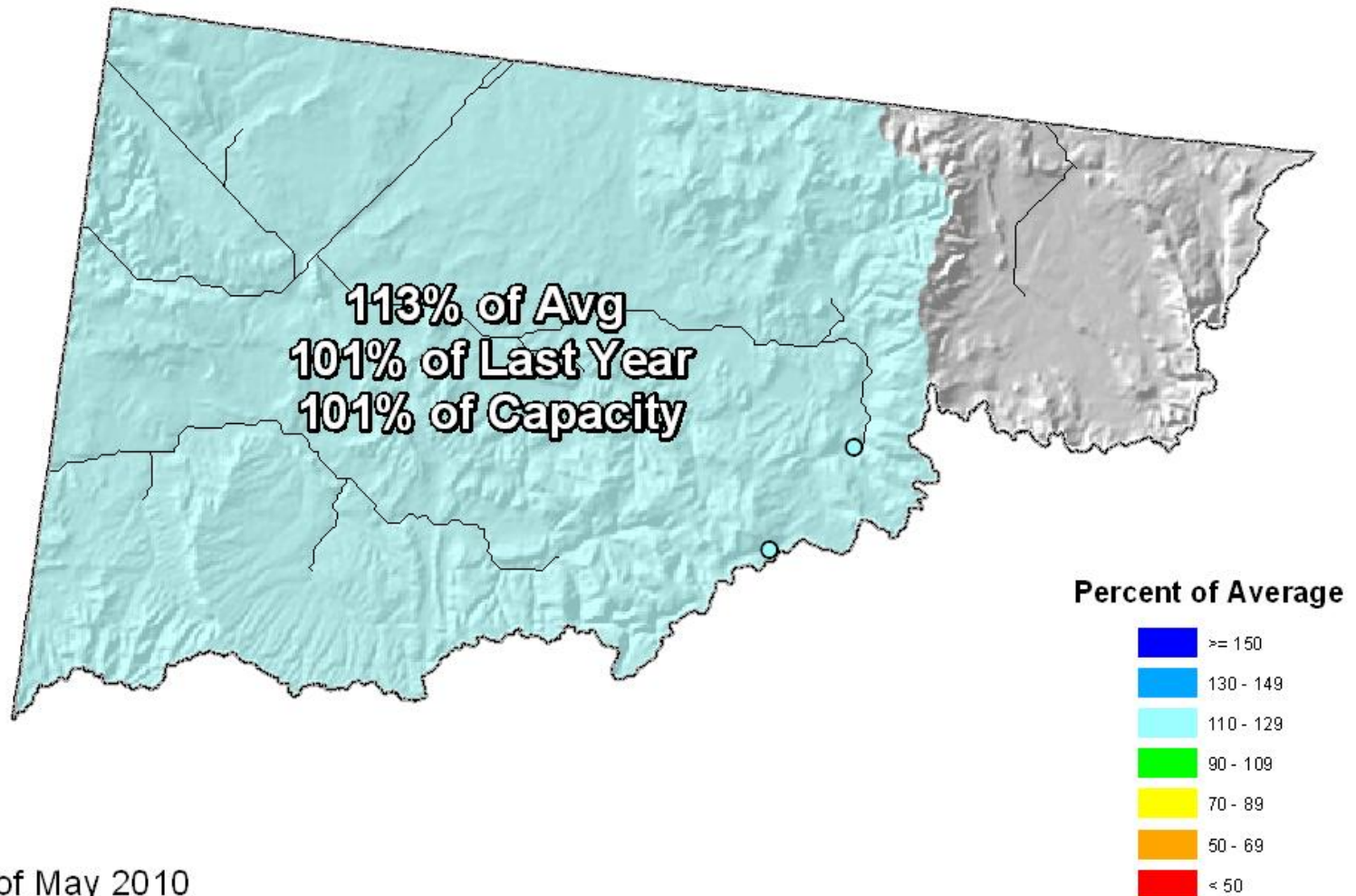
Yampa and White River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 22, 2010



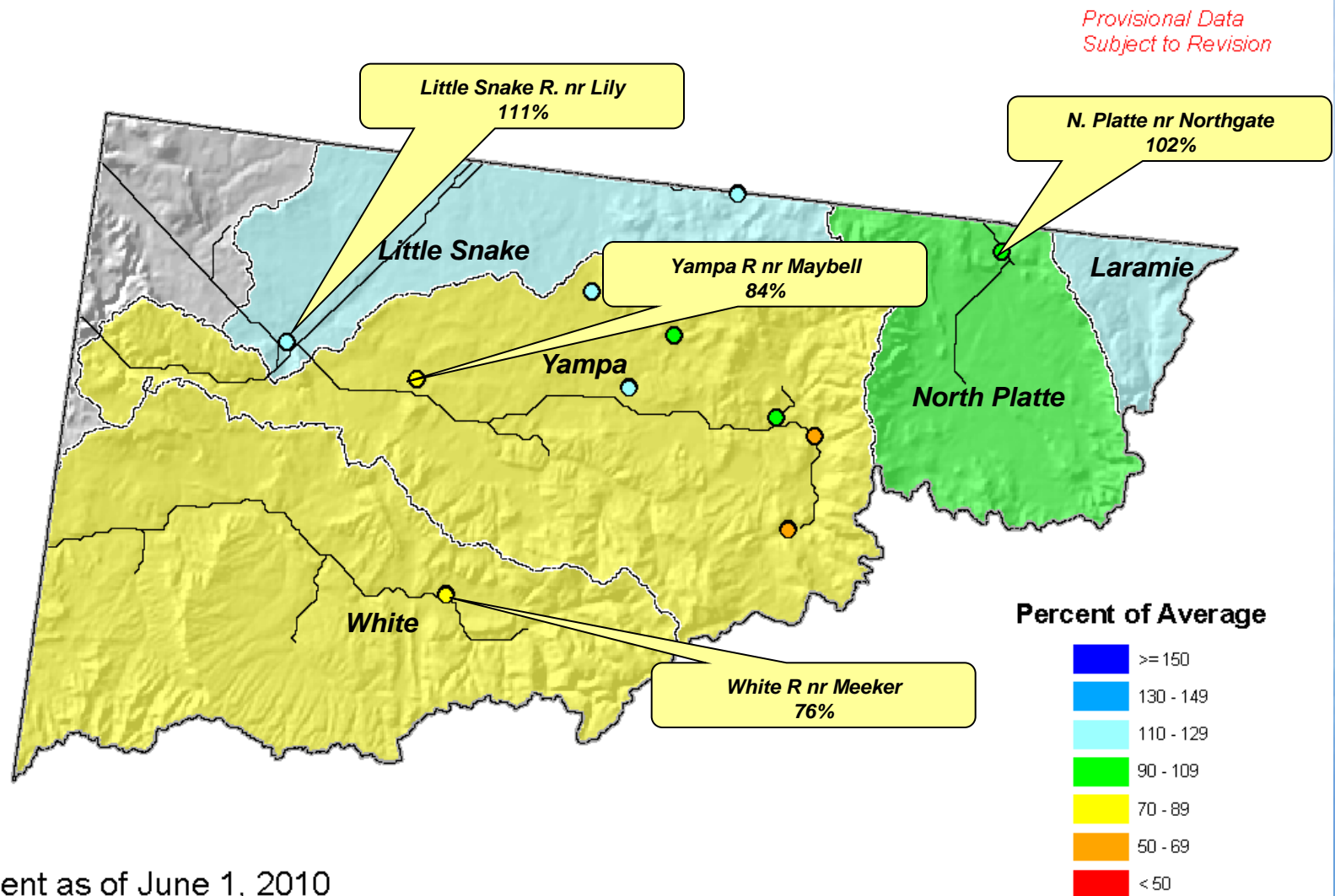
Yampa & White River Basins Reservoir Storage Map

*Provisional Data
Subject to Revision*



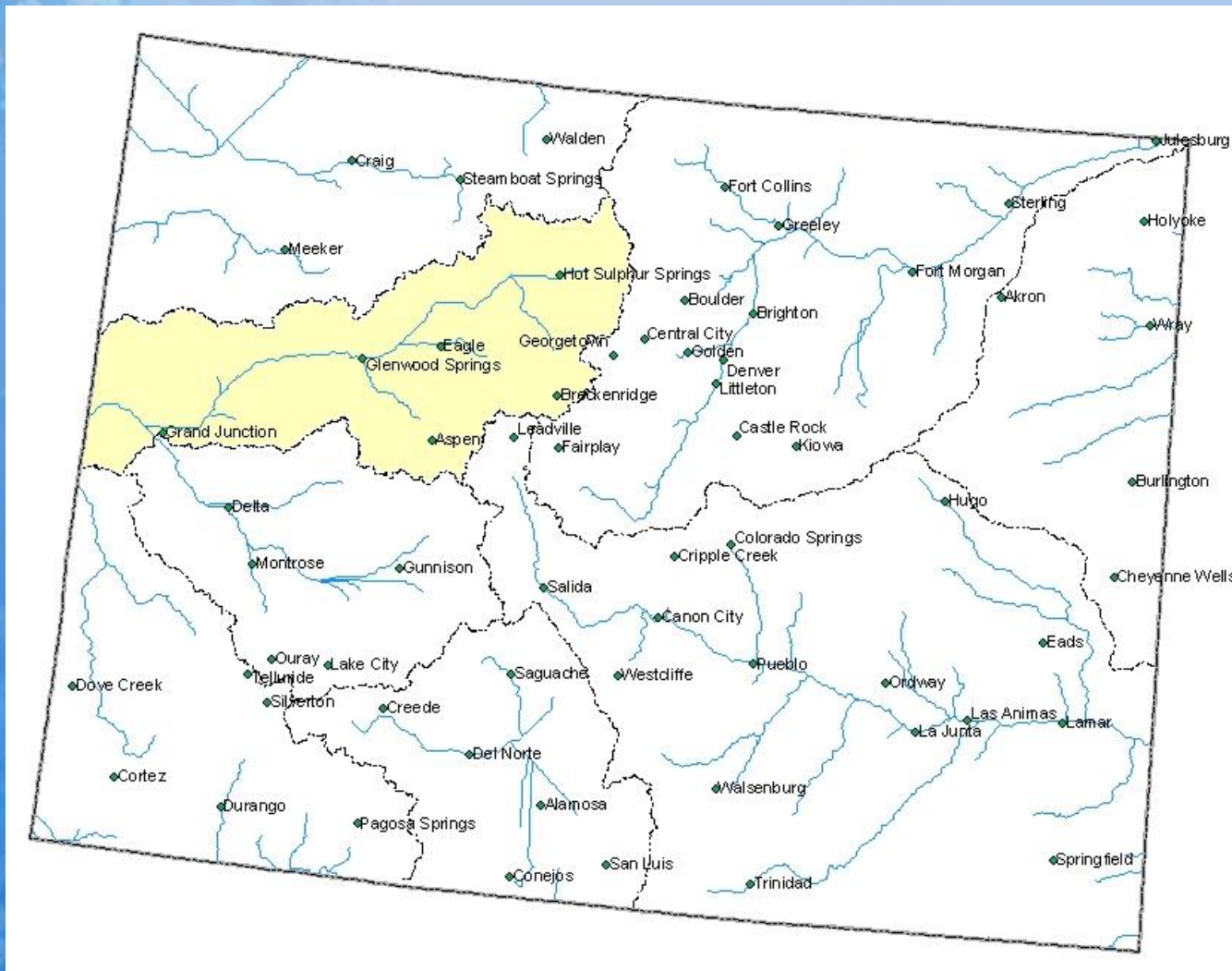
End of May 2010

Yampa, White and North Platte River Basins Streamflow Map



Current as of June 1, 2010

Colorado River Basin Summary

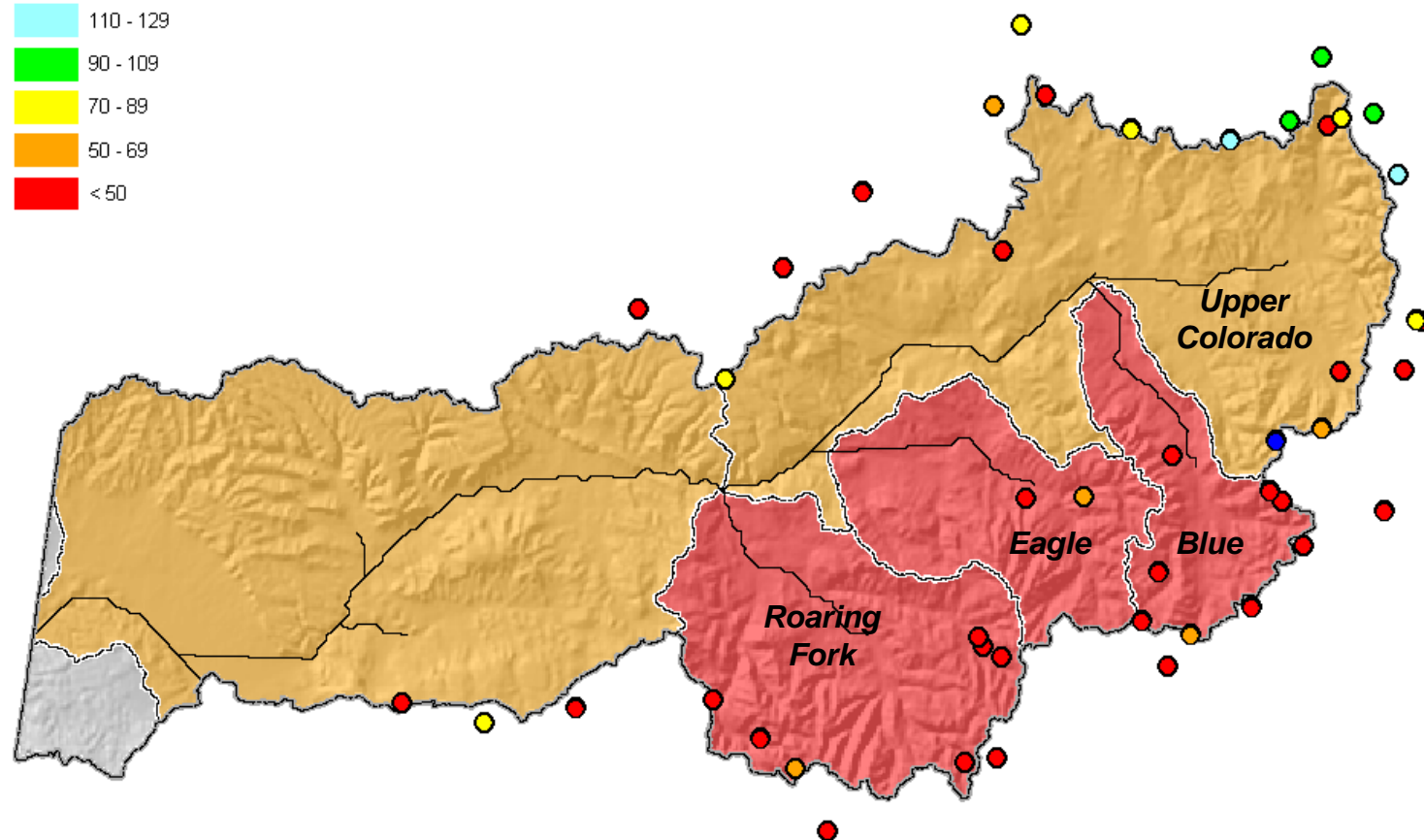


Colorado River Basin Snowpack Map

Percent of Average

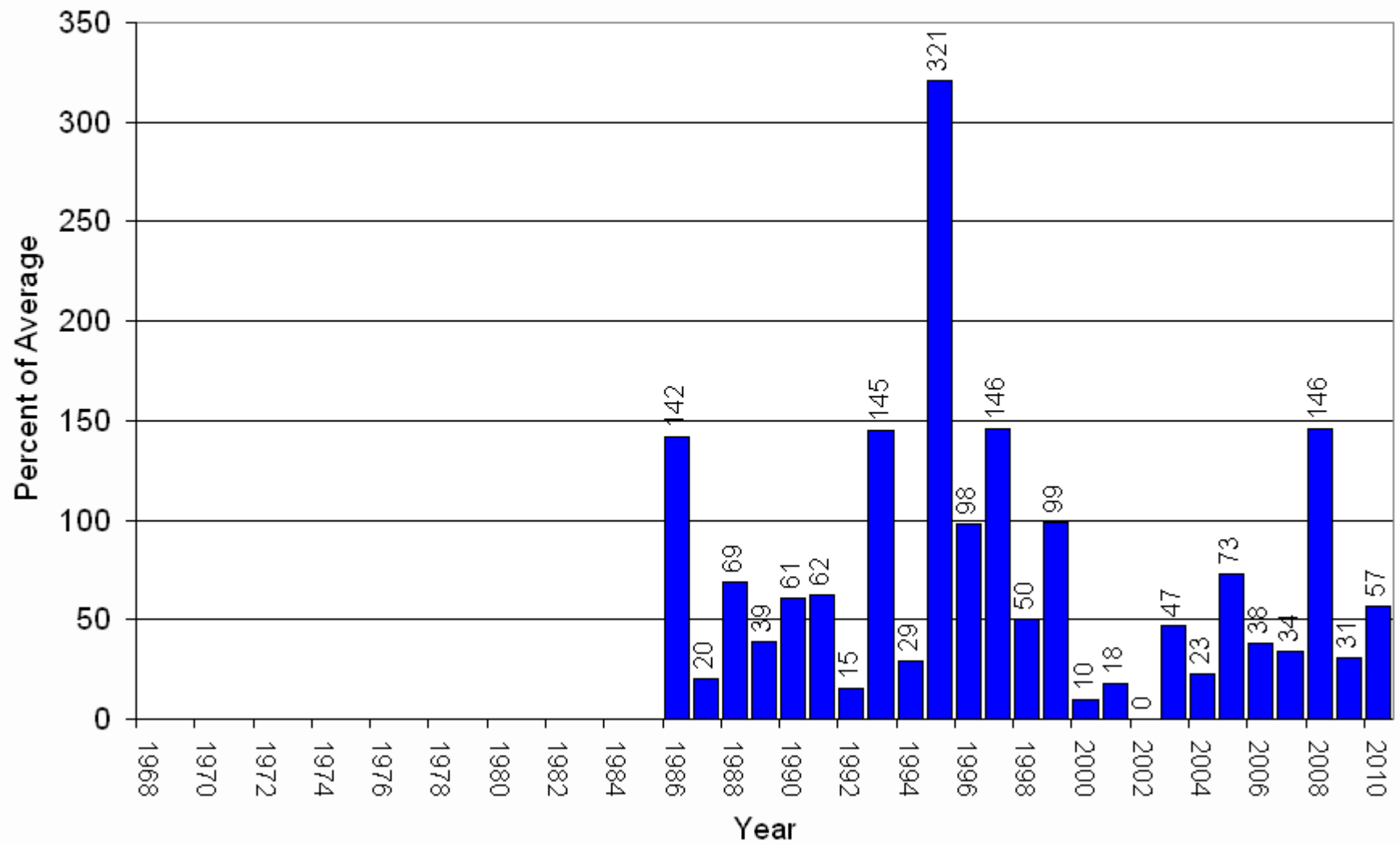


*Provisional Data
Subject to Revision*



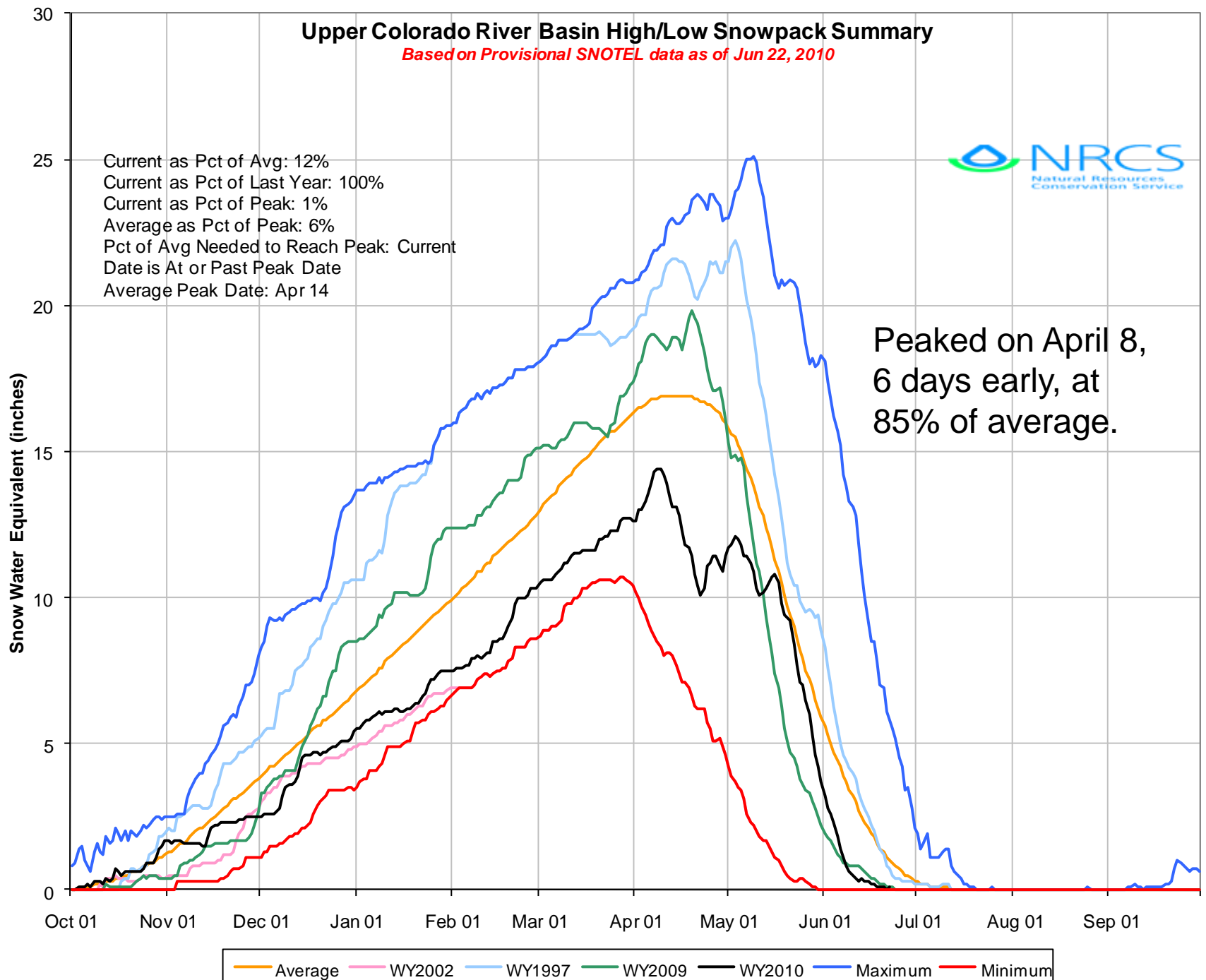
Current as of June 1, 2010

June 1 Total Colorado River Basin Snowpack



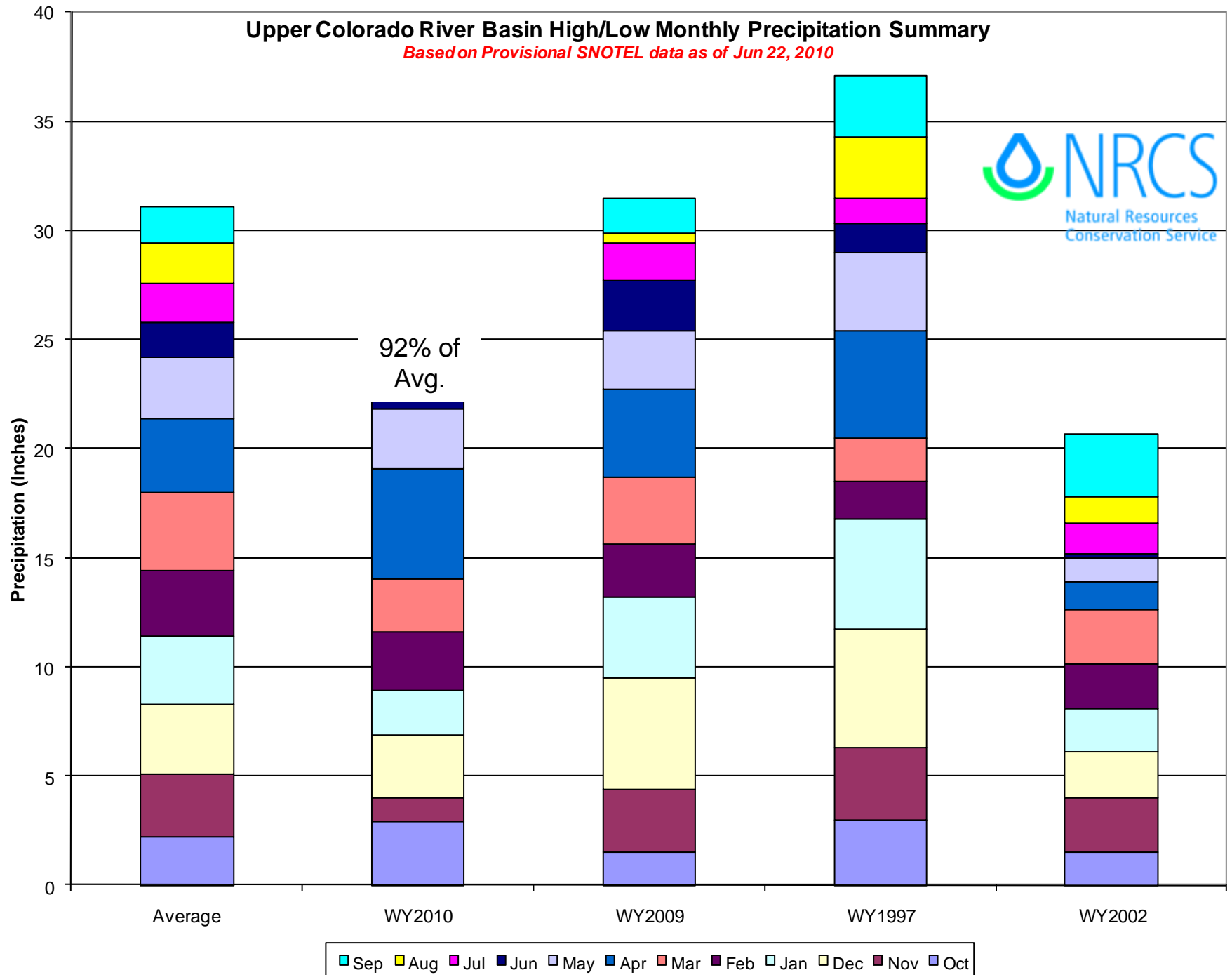
Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 22, 2010



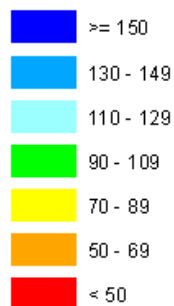
Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 22, 2010

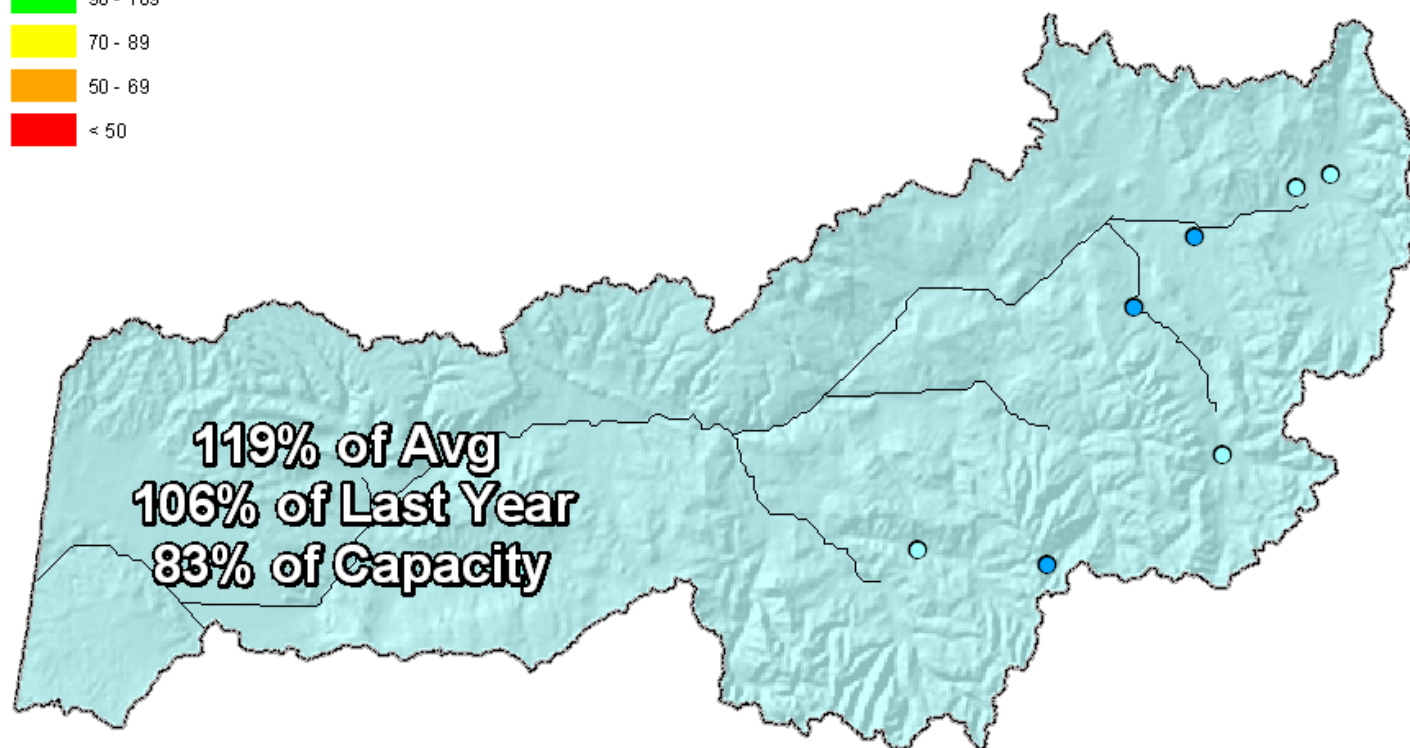


Colorado River Basin Reservoir Storage Map

Percent of Average

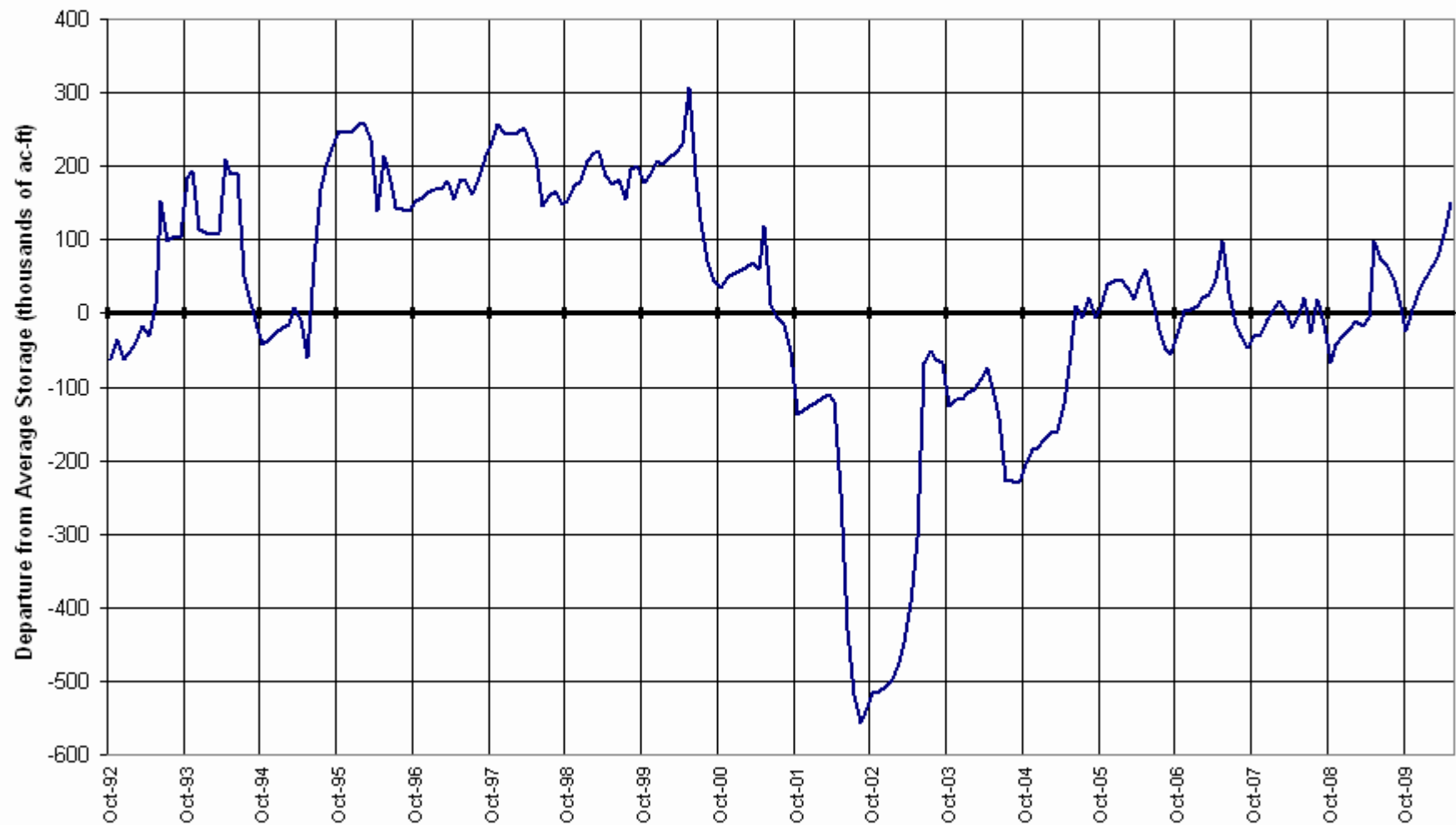


*Provisional Data
Subject to Revision*



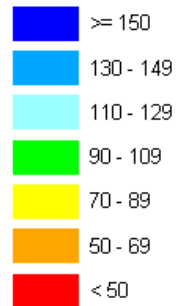
End of May 2010

COLORADO RIVER BASIN
Reservoir Storage
Departure from Average

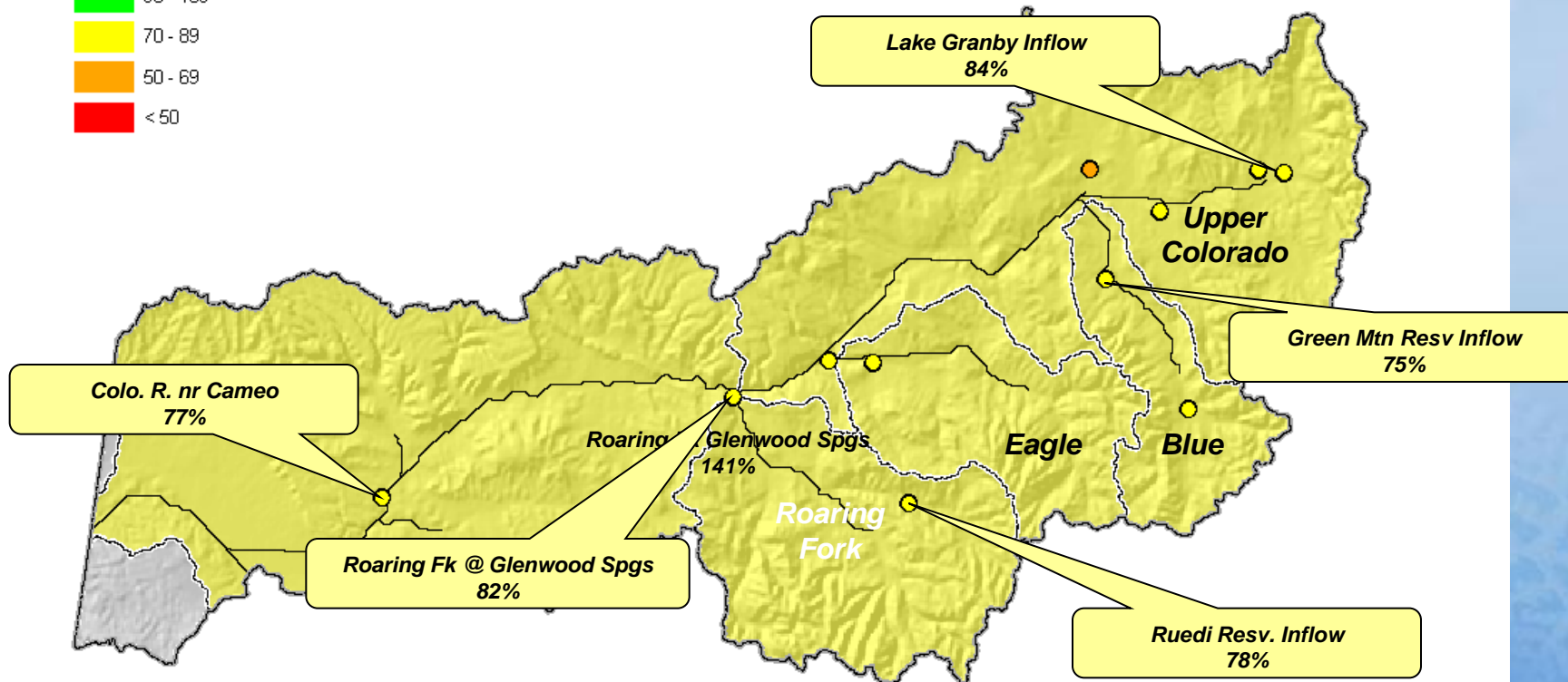


Colorado River Basin Streamflow Forecast Map

Percent of Average

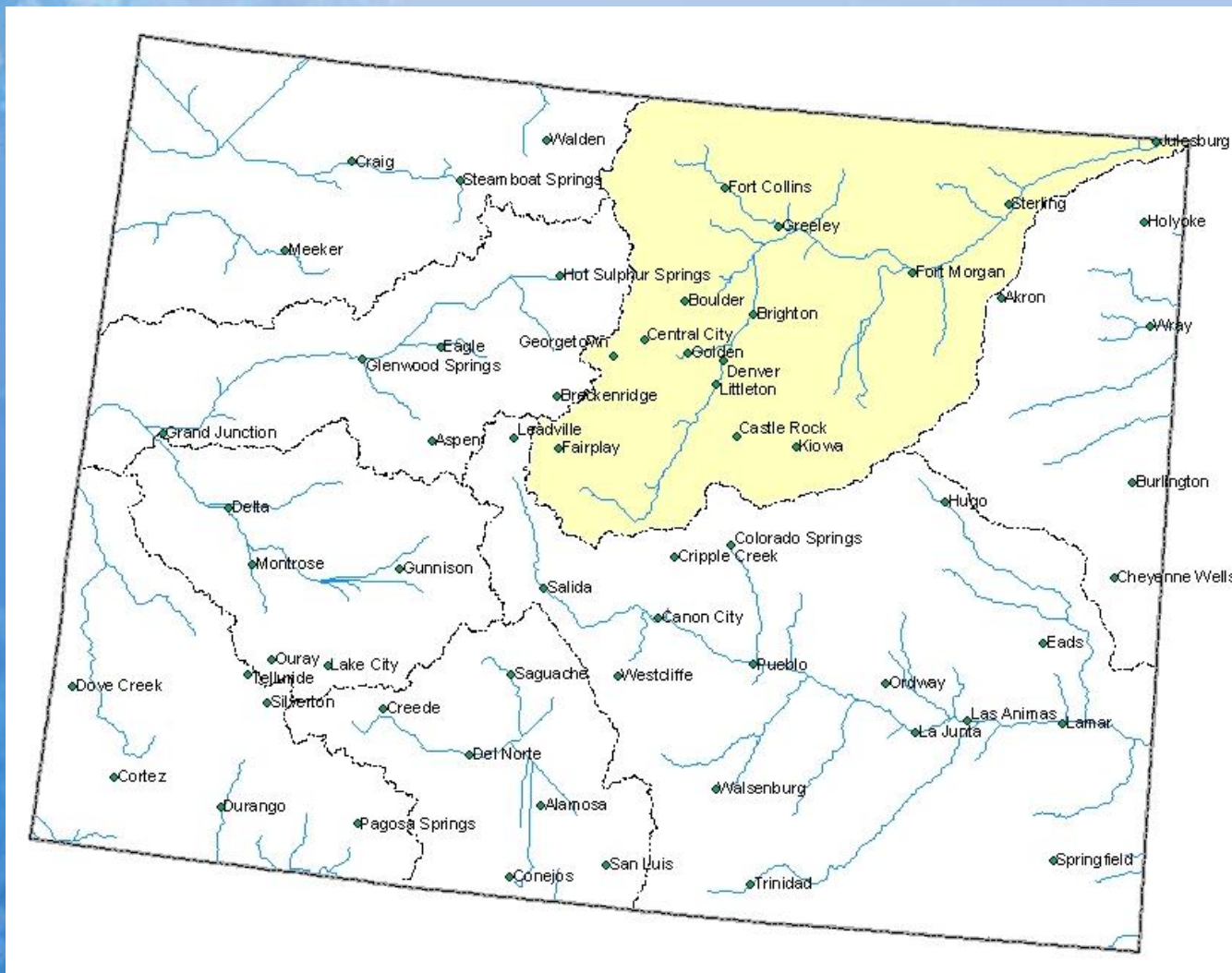


*Provisional Data
Subject to Revision*



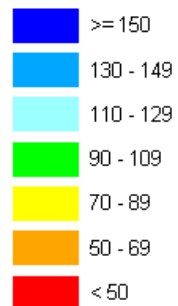
Current as of June 1, 2010

South Platte River Basin Summary

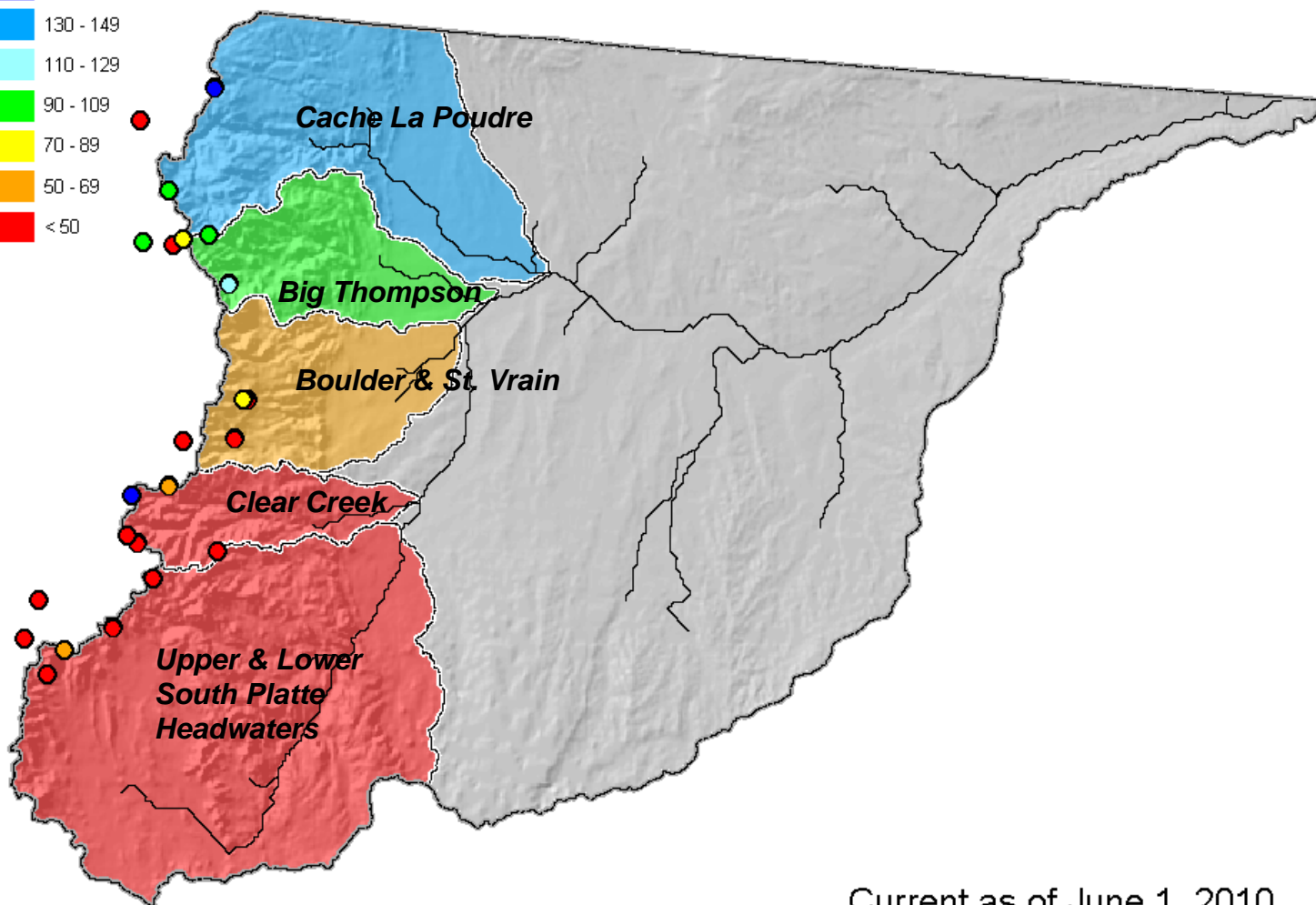


South Platte River Basin Snowpack Map

Percent of Average

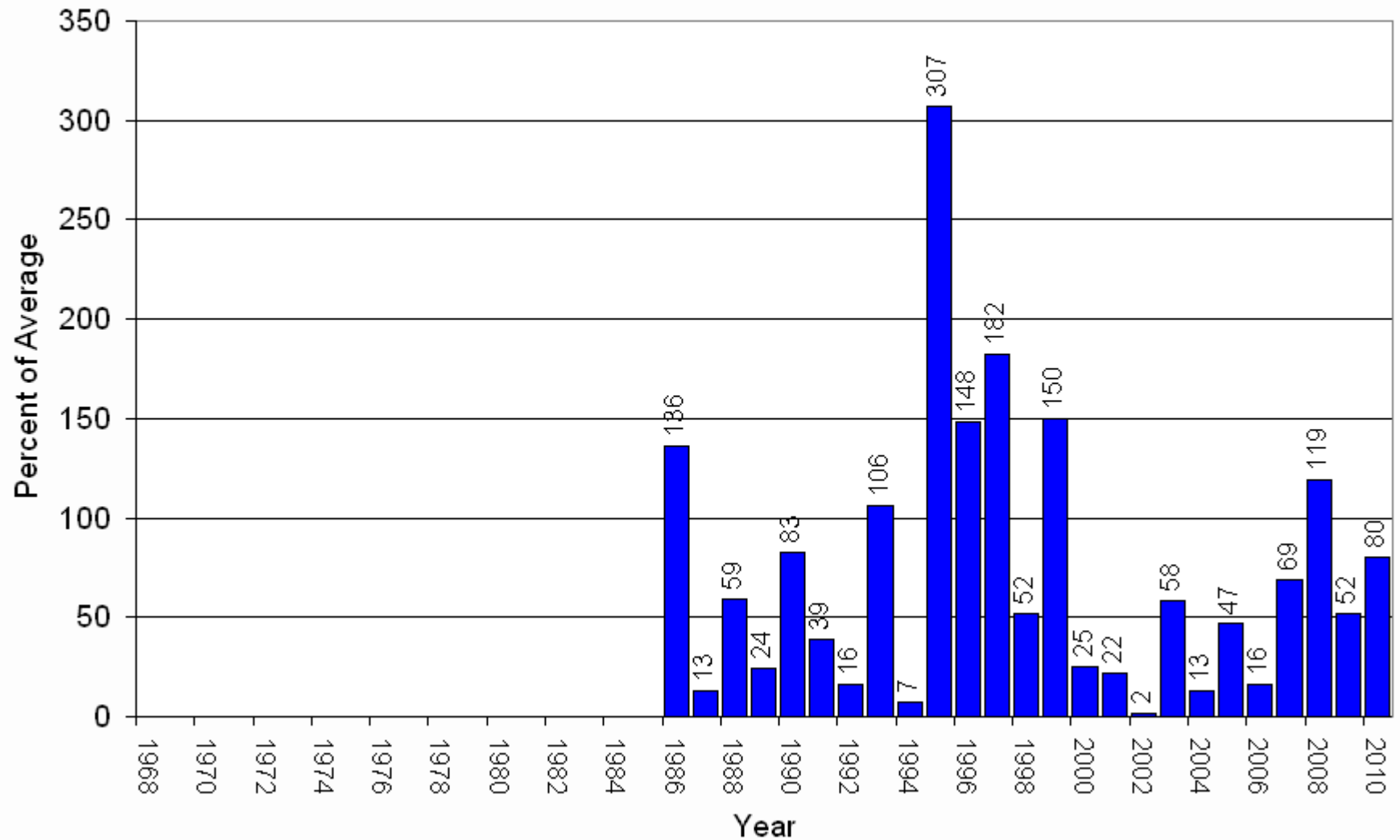


*Provisional Data
Subject to Revision*



Current as of June 1, 2010

June 1 Total South Platte River Basin Snowpack



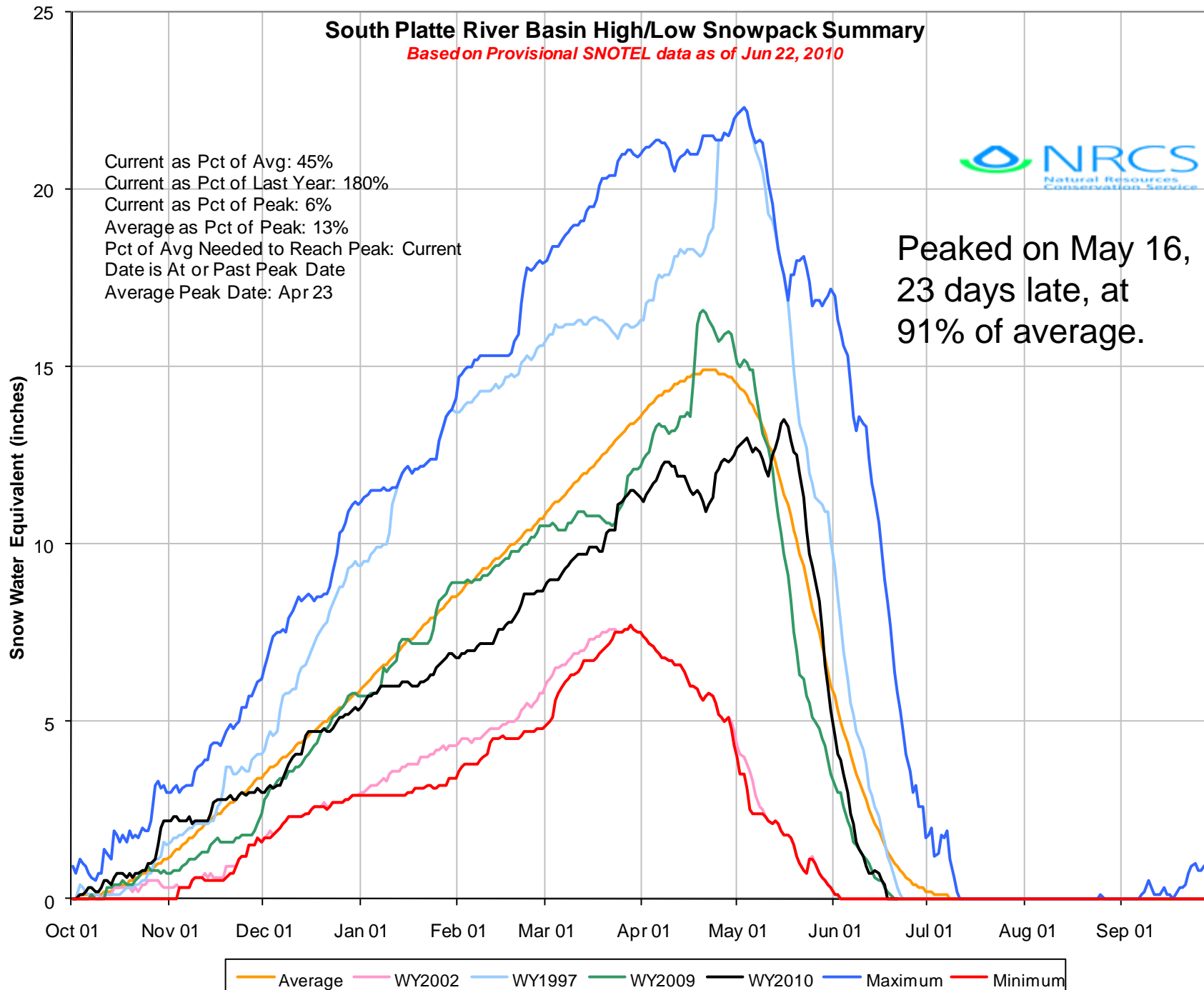
South Platte River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 22, 2010



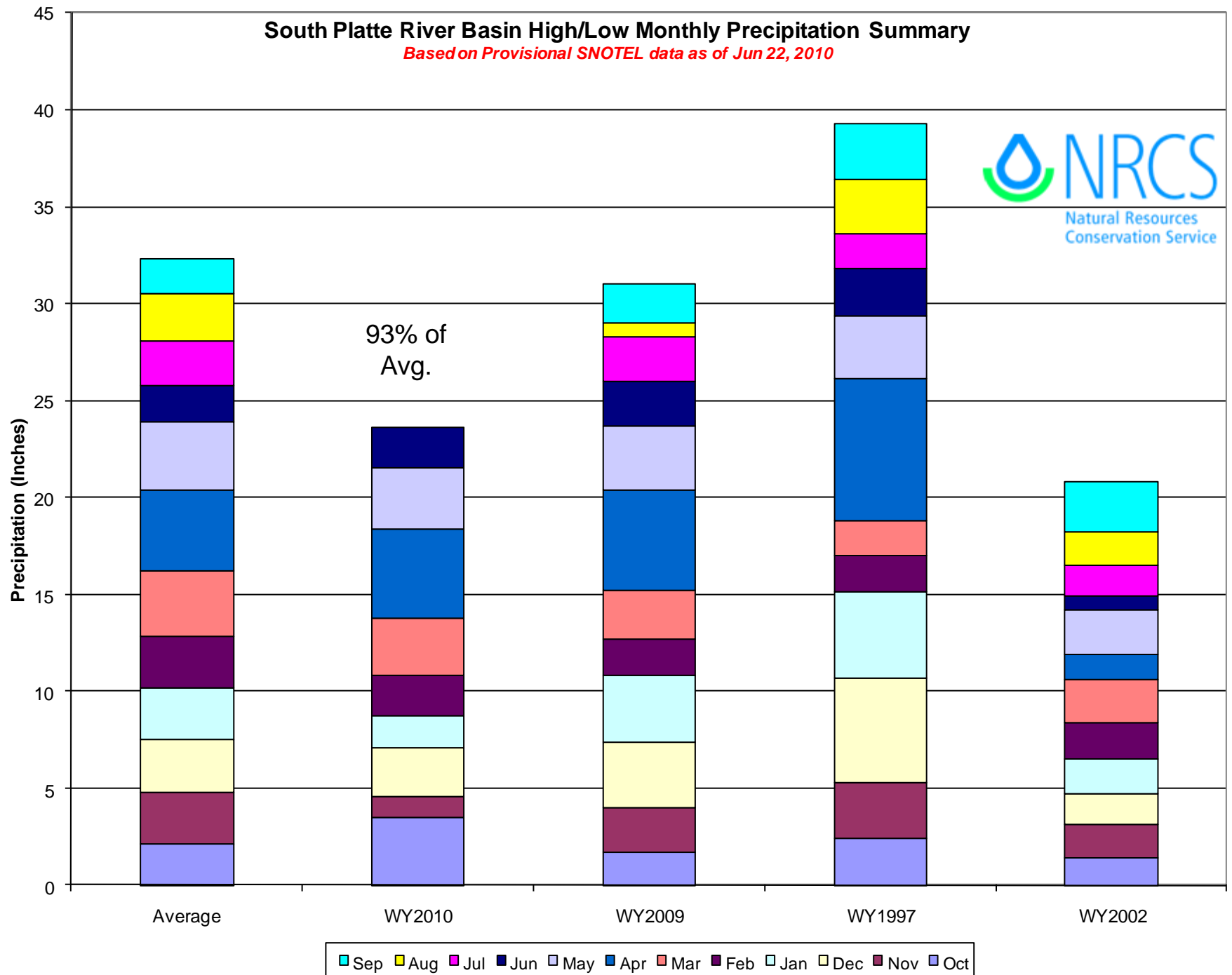
Current as Pct of Avg: 45%
Current as Pct of Last Year: 180%
Current as Pct of Peak: 6%
Average as Pct of Peak: 13%
Pct of Avg Needed to Reach Peak: Current
Date is At or Past Peak Date
Average Peak Date: Apr 23

Peaked on May 16,
23 days late, at
91% of average.



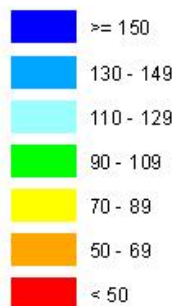
South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 22, 2010

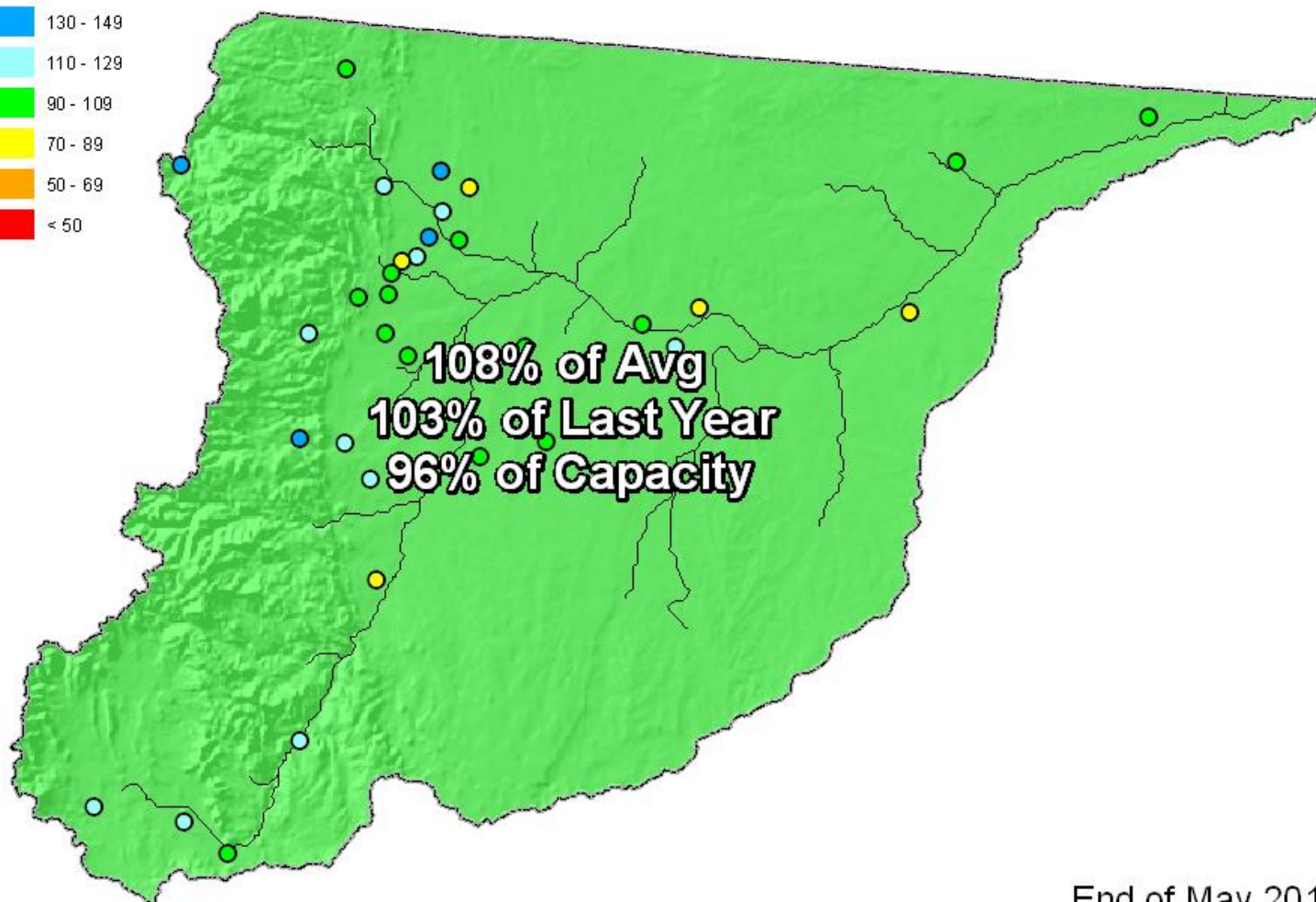


South Platte River Basin Reservoir Storage Map

Percent of Average

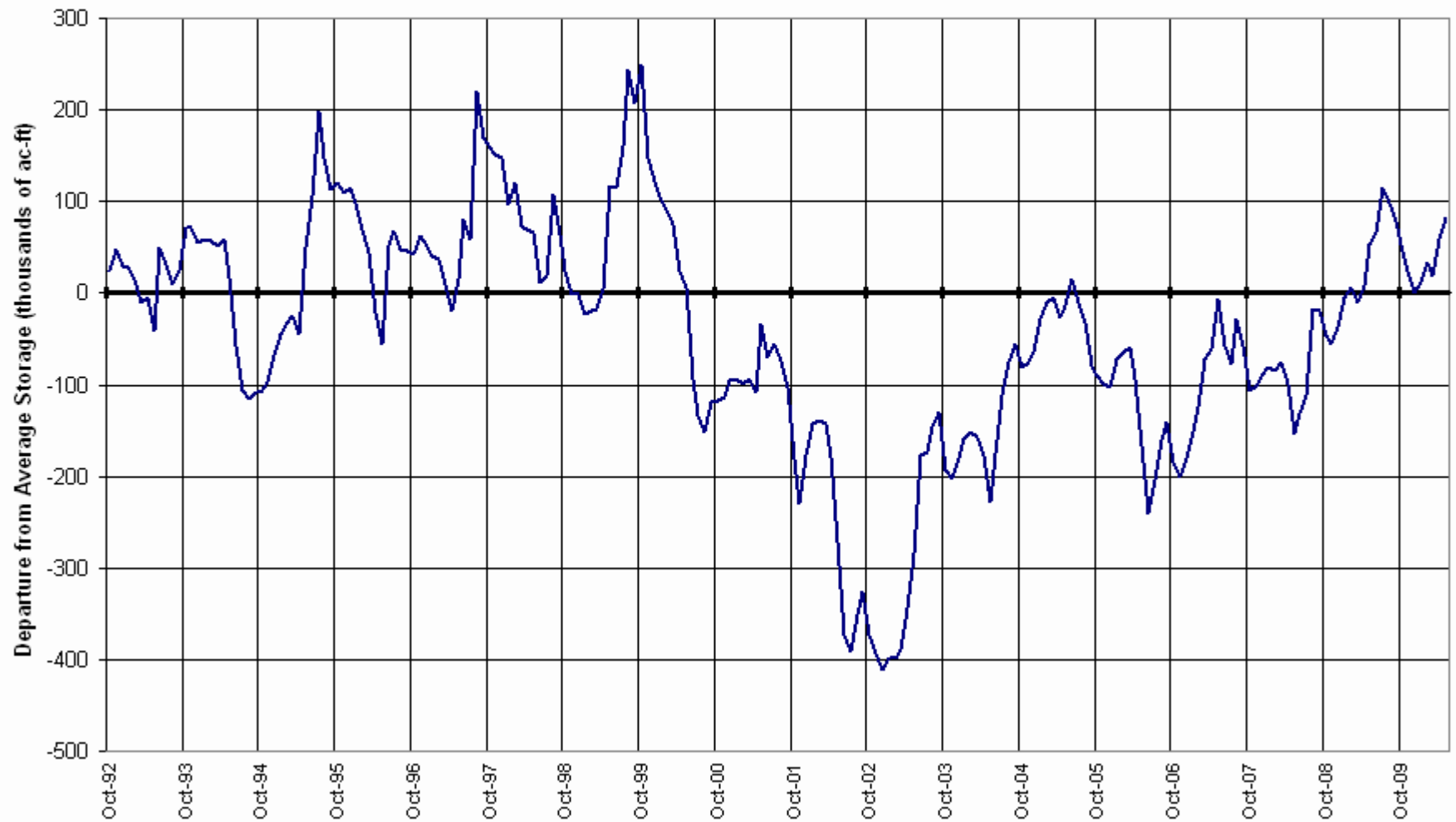


*Provisional Data
Subject to Revision*



End of May 2010

SOUTH PLATTE RIVER BASIN
Reservoir Storage
Departure from Average

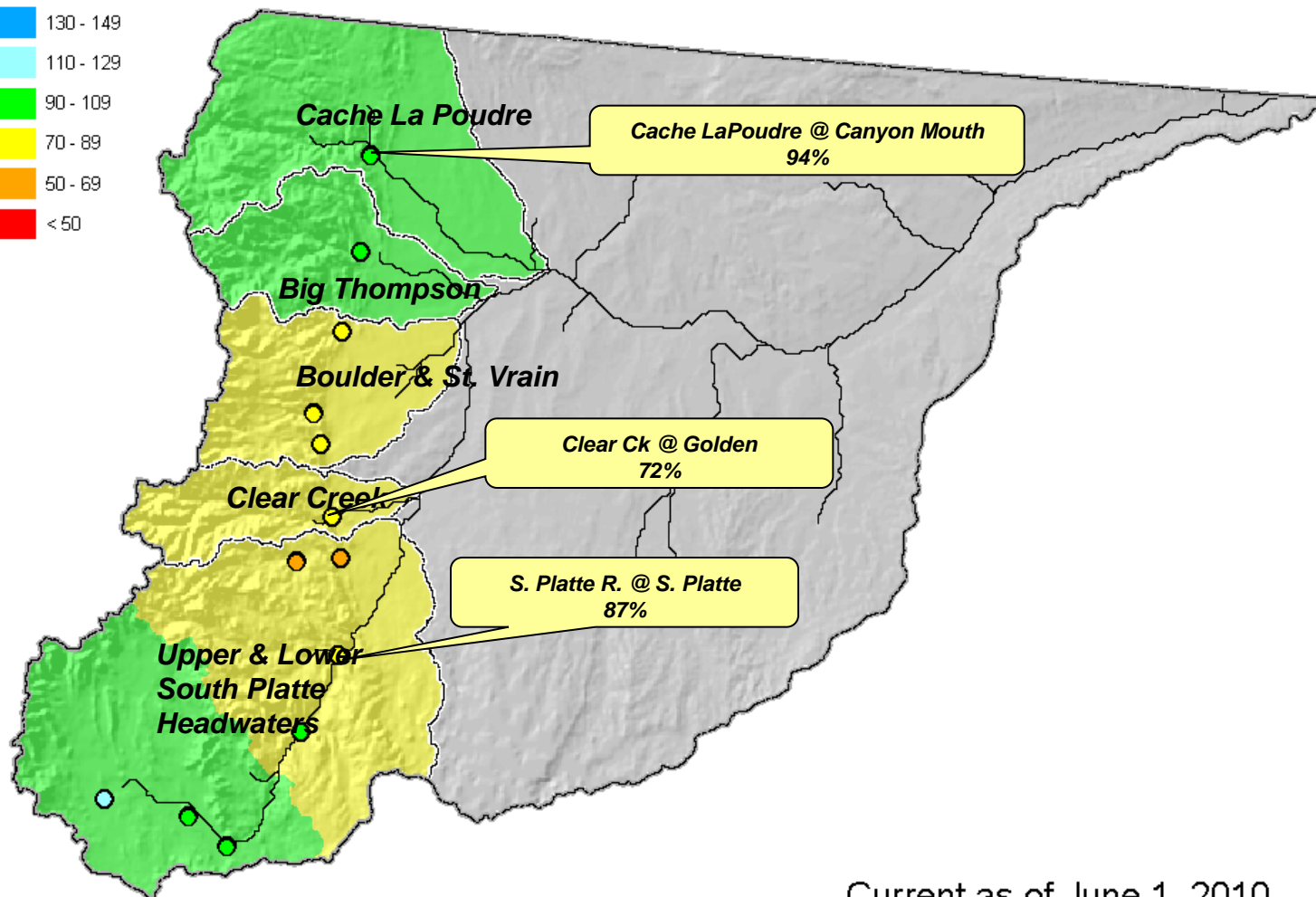


South Platte River Basin Streamflow Forecast Map

Percent of Average

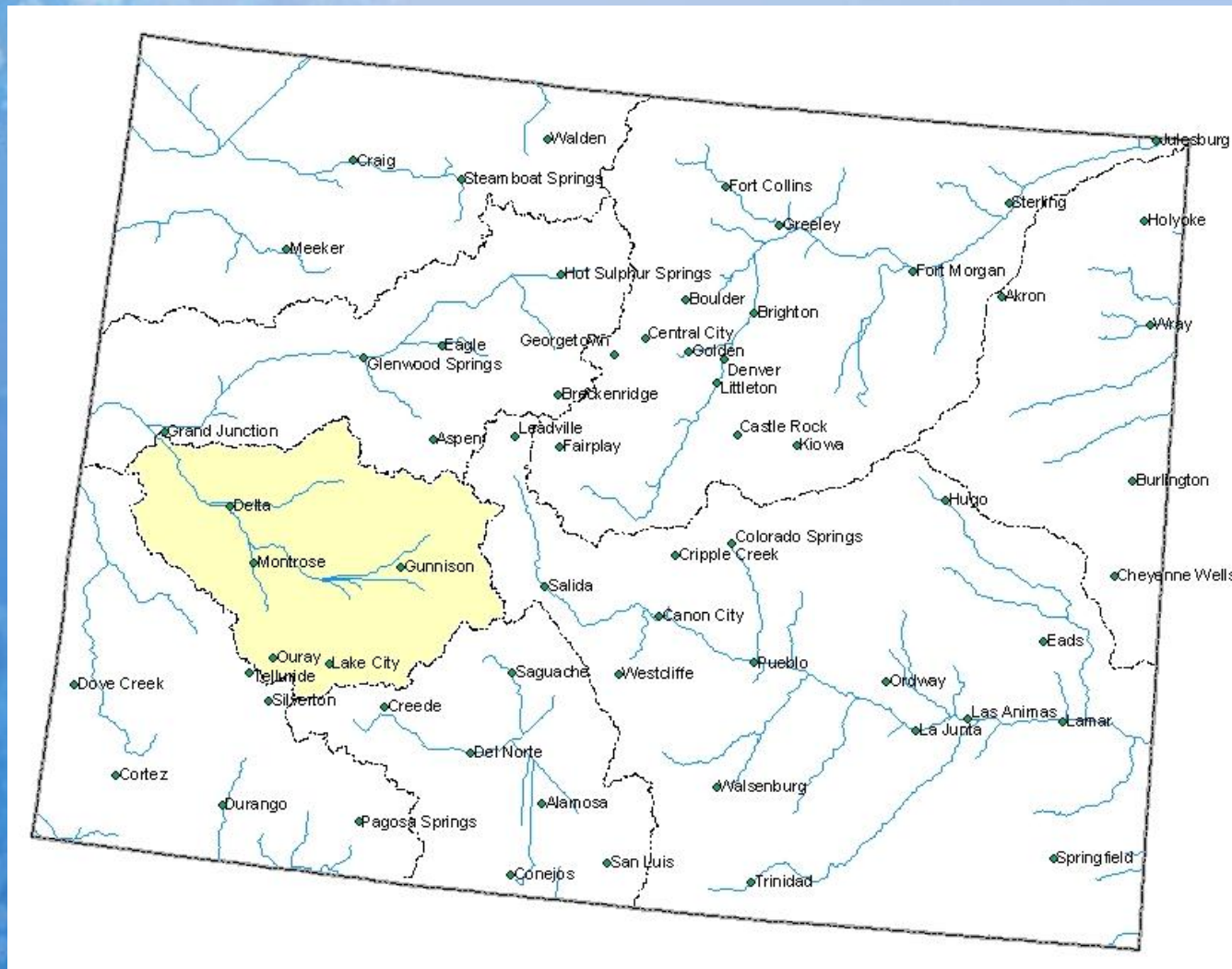


*Provisional Data
Subject to Revision*



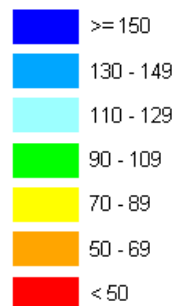
Current as of June 1, 2010

Gunnison River Basin Summary

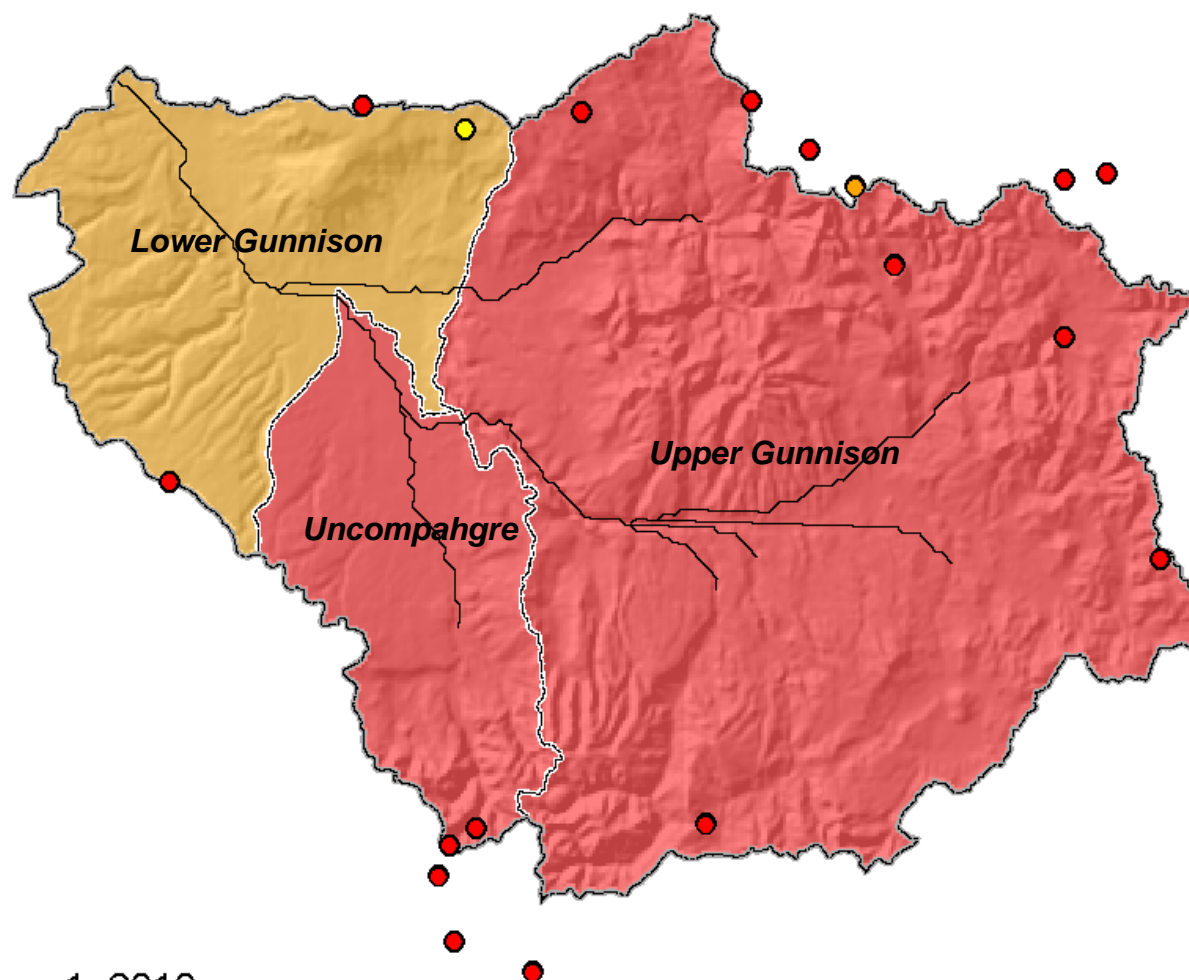


Gunnison River Basin Snowpack Map

Percent of Average

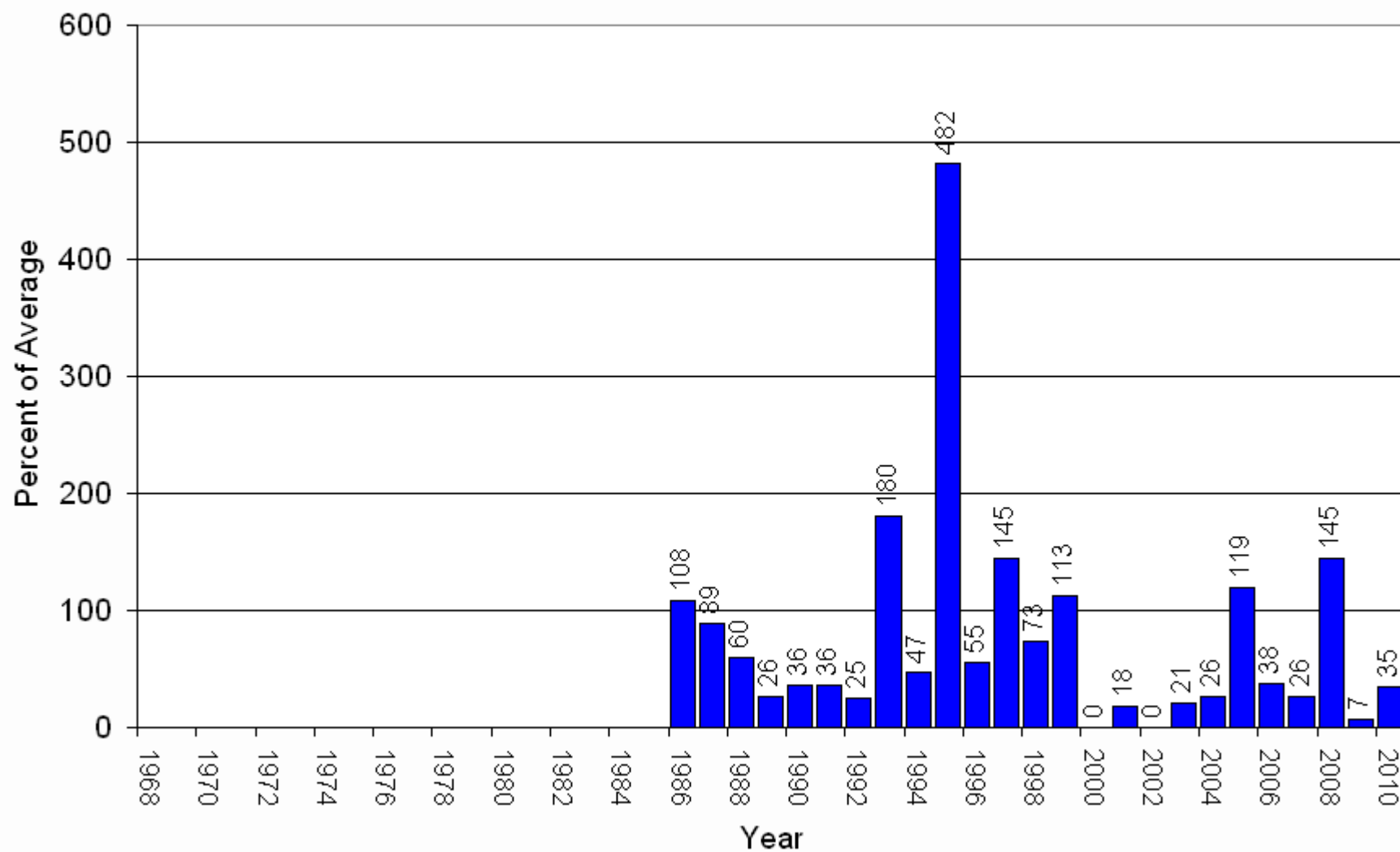


*Provisional Data
Subject to Revision*



Current as of June 1, 2010

June 1 Total Gunnison River Basin Snowpack



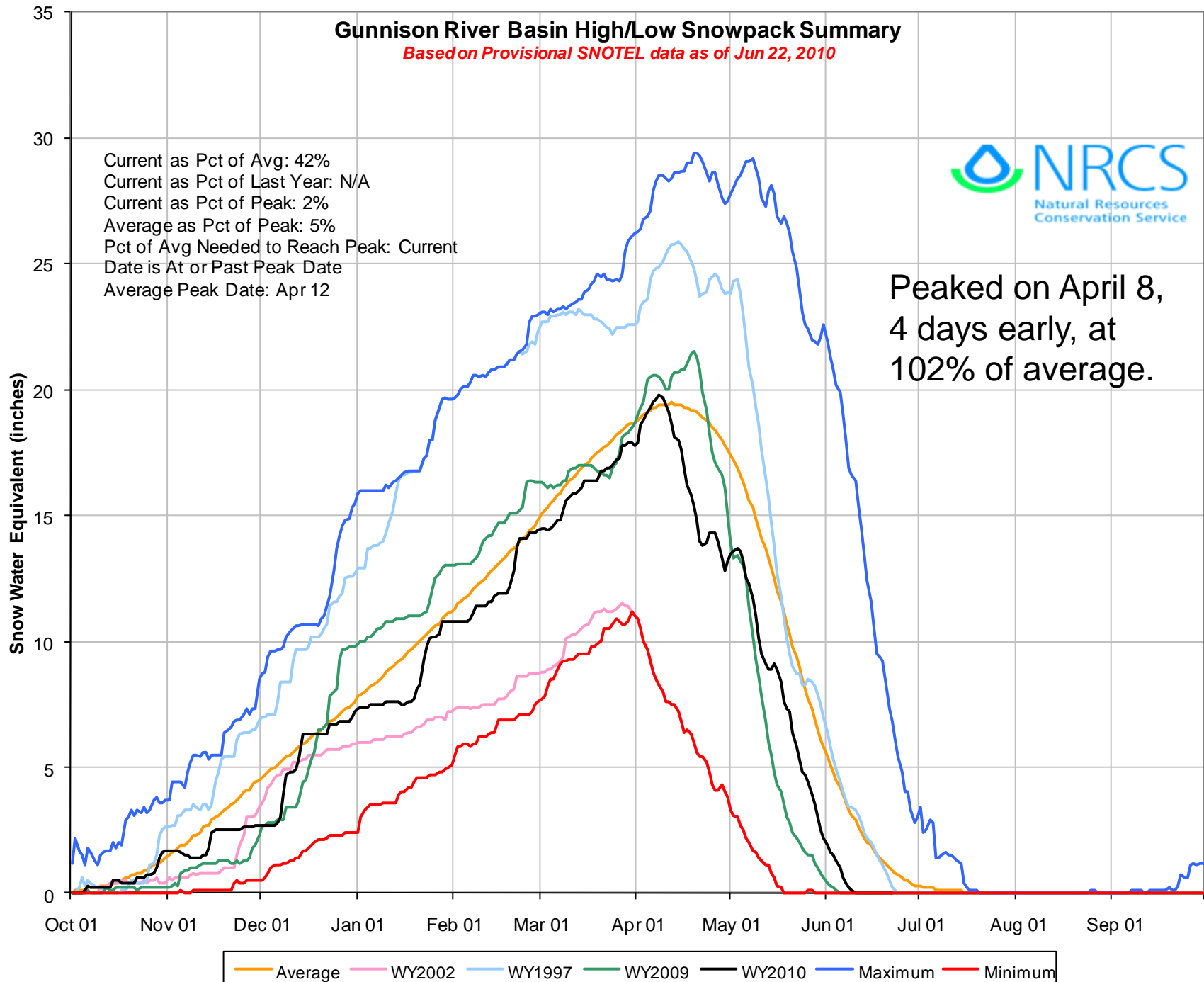
Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 22, 2010



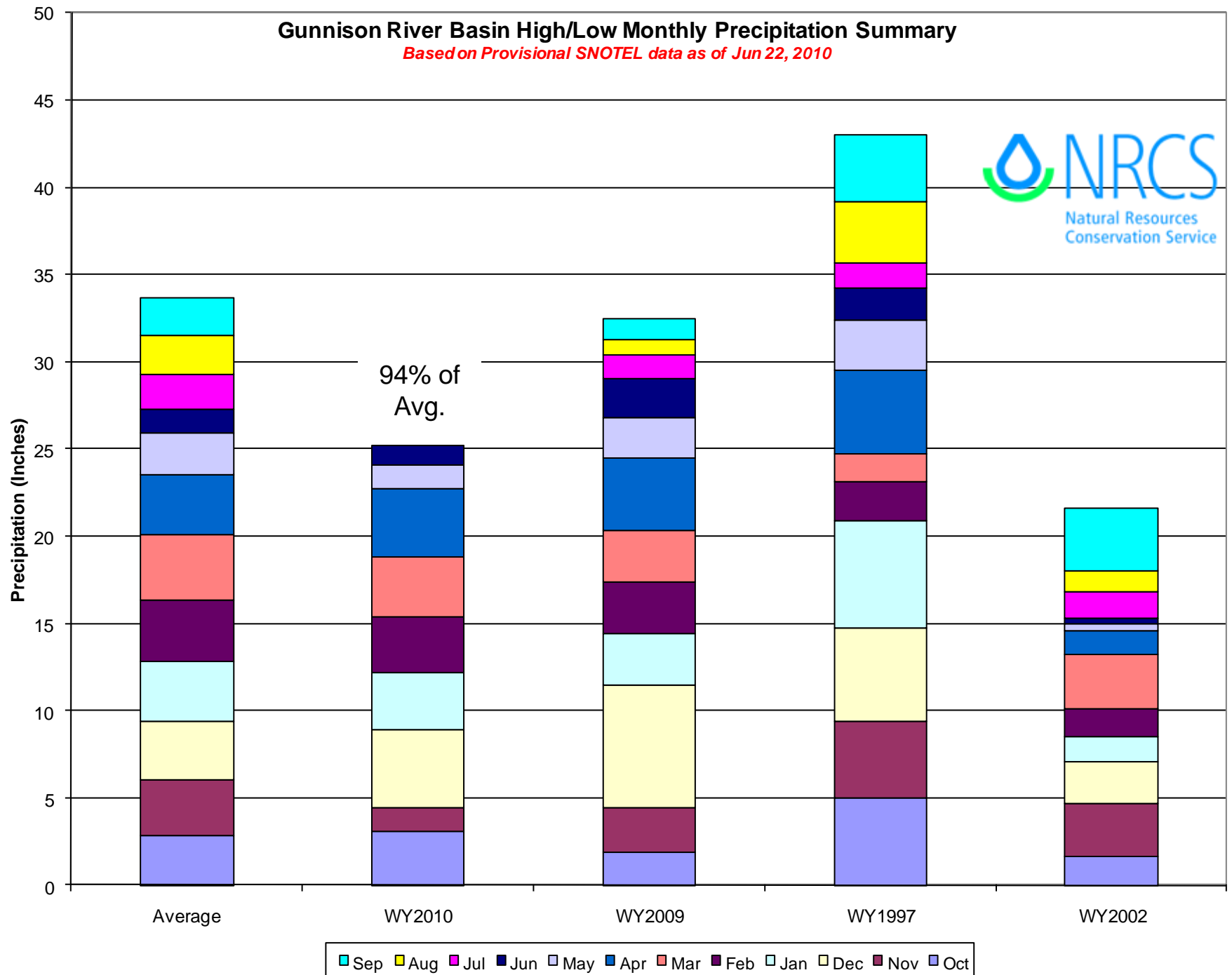
Current as Pct of Avg: 42%
Current as Pct of Last Year: N/A
Current as Pct of Peak: 2%
Average as Pct of Peak: 5%
Pct of Avg Needed to Reach Peak: Current
Date is At or Past Peak Date
Average Peak Date: Apr 12

Peaked on April 8,
4 days early, at
102% of average.



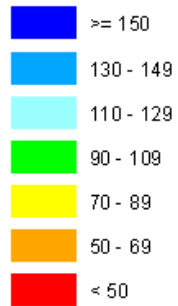
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 22, 2010

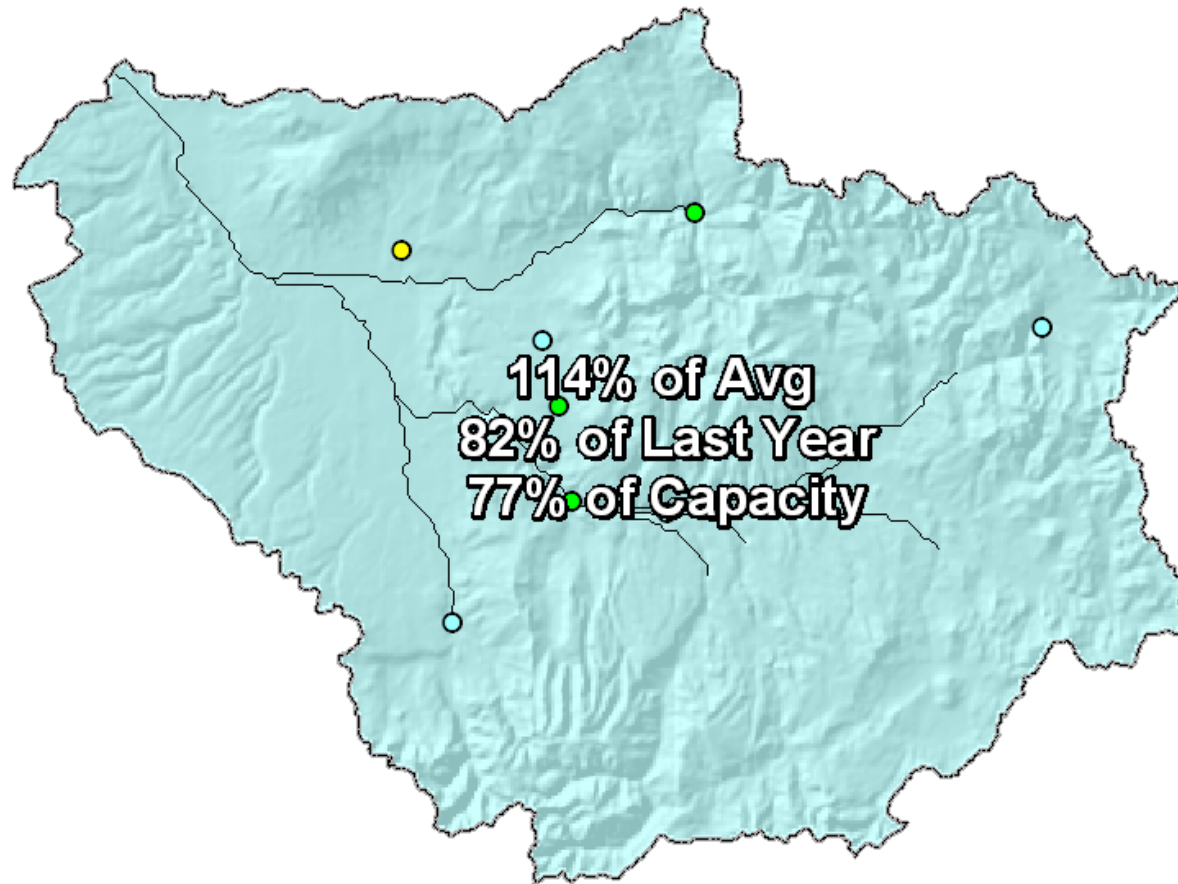


Gunnison River Basin Reservoir Storage Map

Percent of Average



*Provisional Data
Subject to Revision*

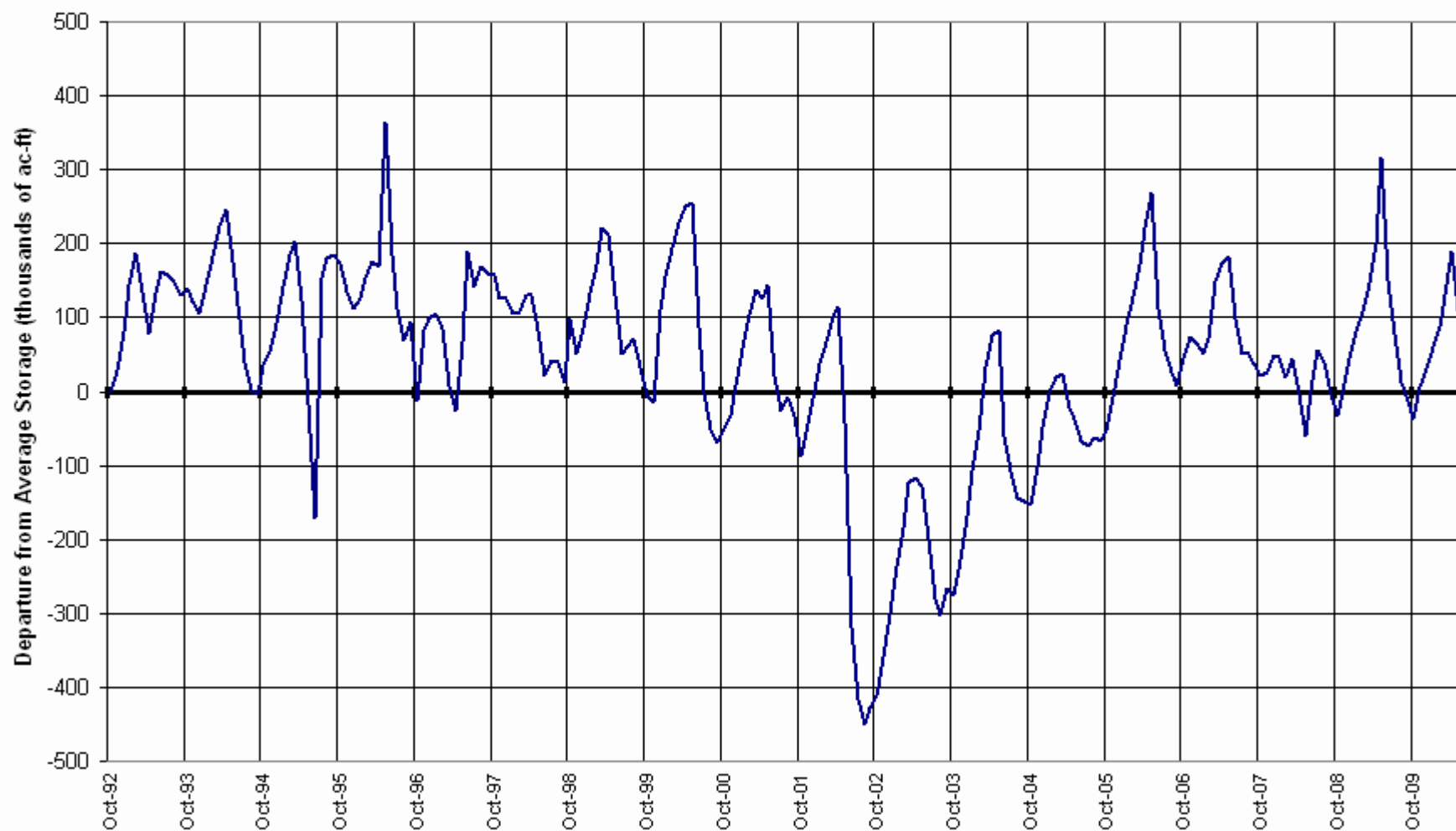


End of May 2010

GUNNISON RIVER BASIN

Reservoir Storage

Departure from Average

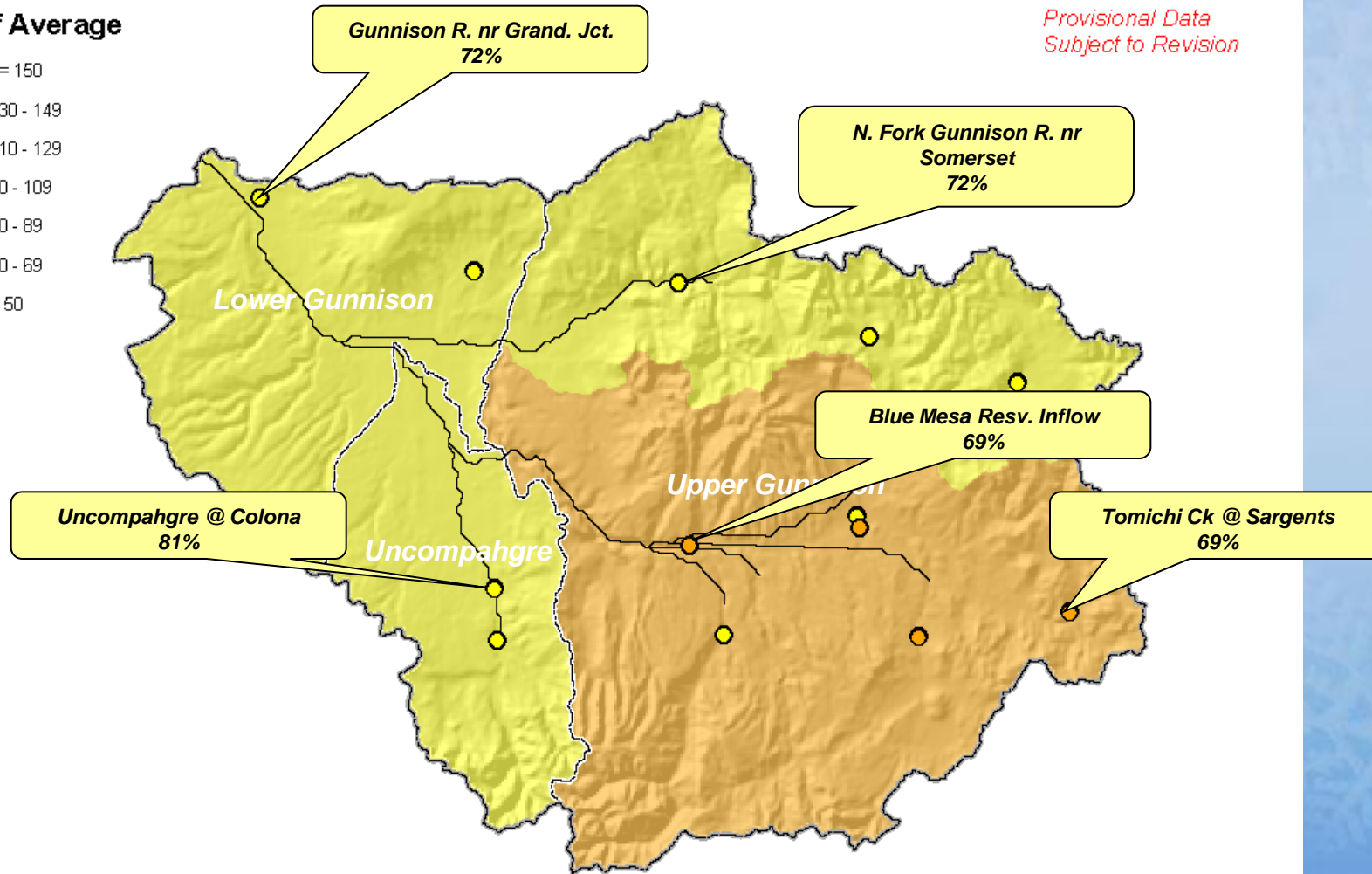


Gunnison River Basin Streamflow Forecast Map

Percent of Average

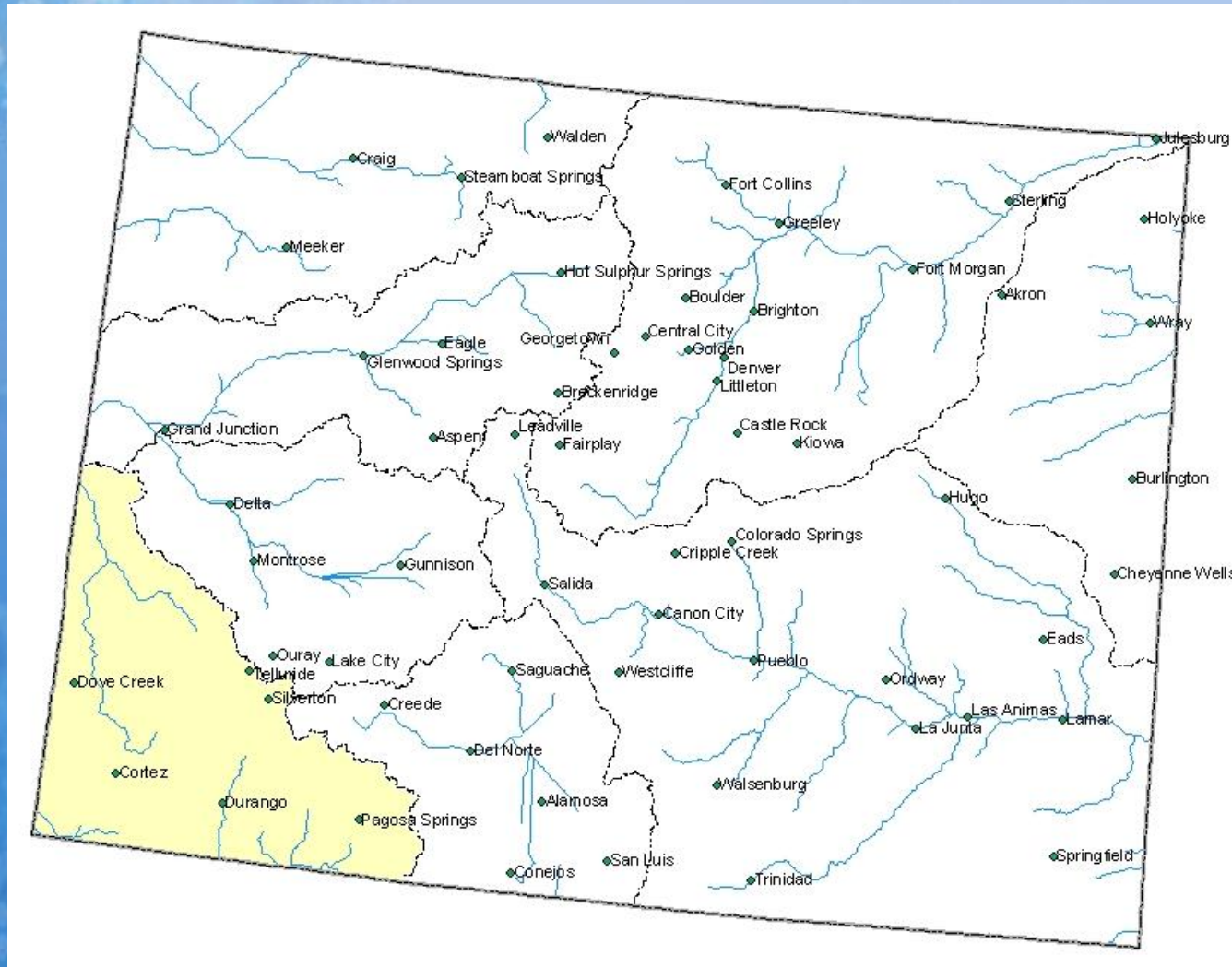


*Provisional Data
Subject to Revision*



Current as of June 1, 2010

San Miguel, Dolores, Animas & San Juan River Basins Summary

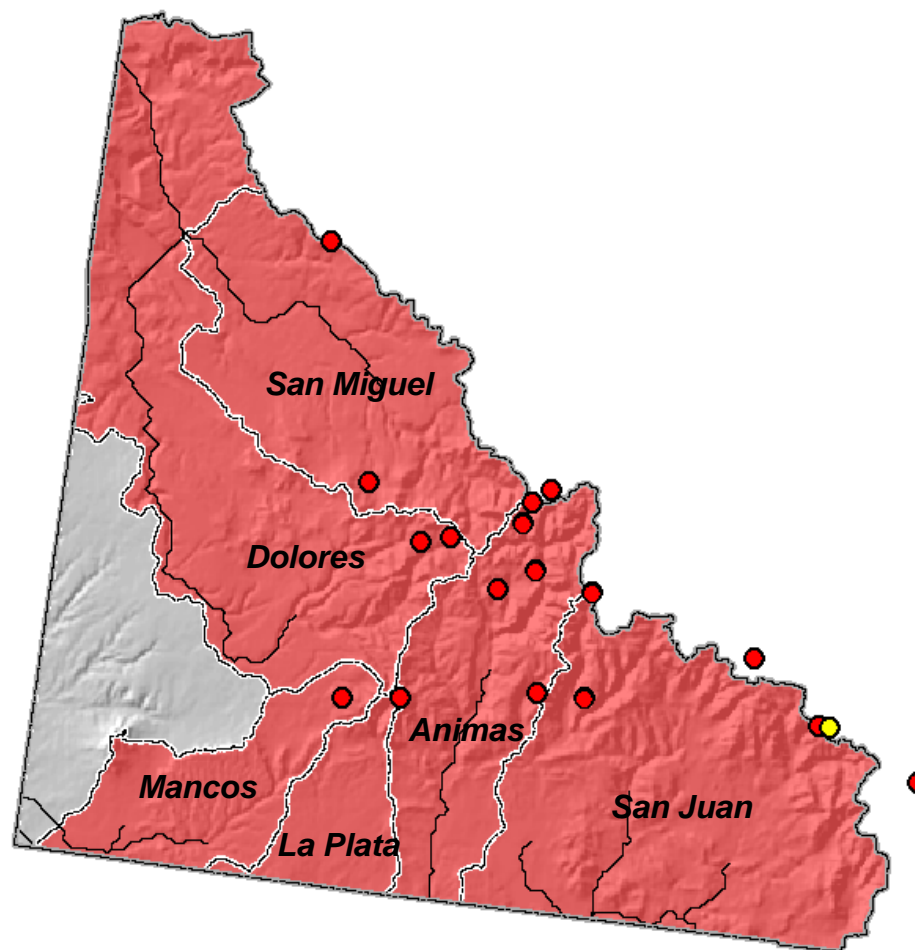


San Miguel, Dolores, Animas and San Juan River Basins Snowpack Map

Percent of Average

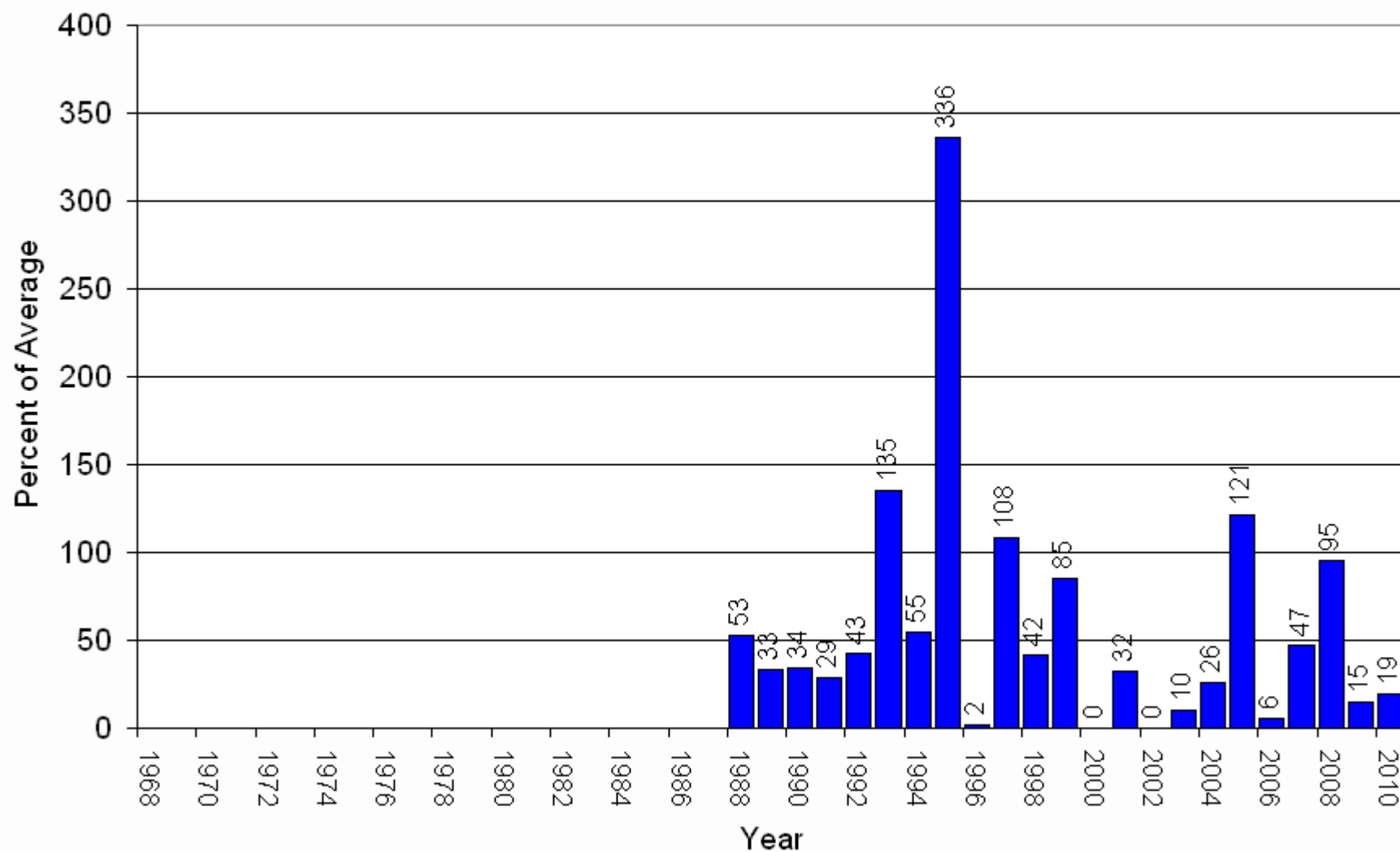


*Provisional Data
Subject to Revision*



Current as of June 1, 2010

June 1 Total San Miguel, Dolores, Animas & San Juan River Basins Snowpack



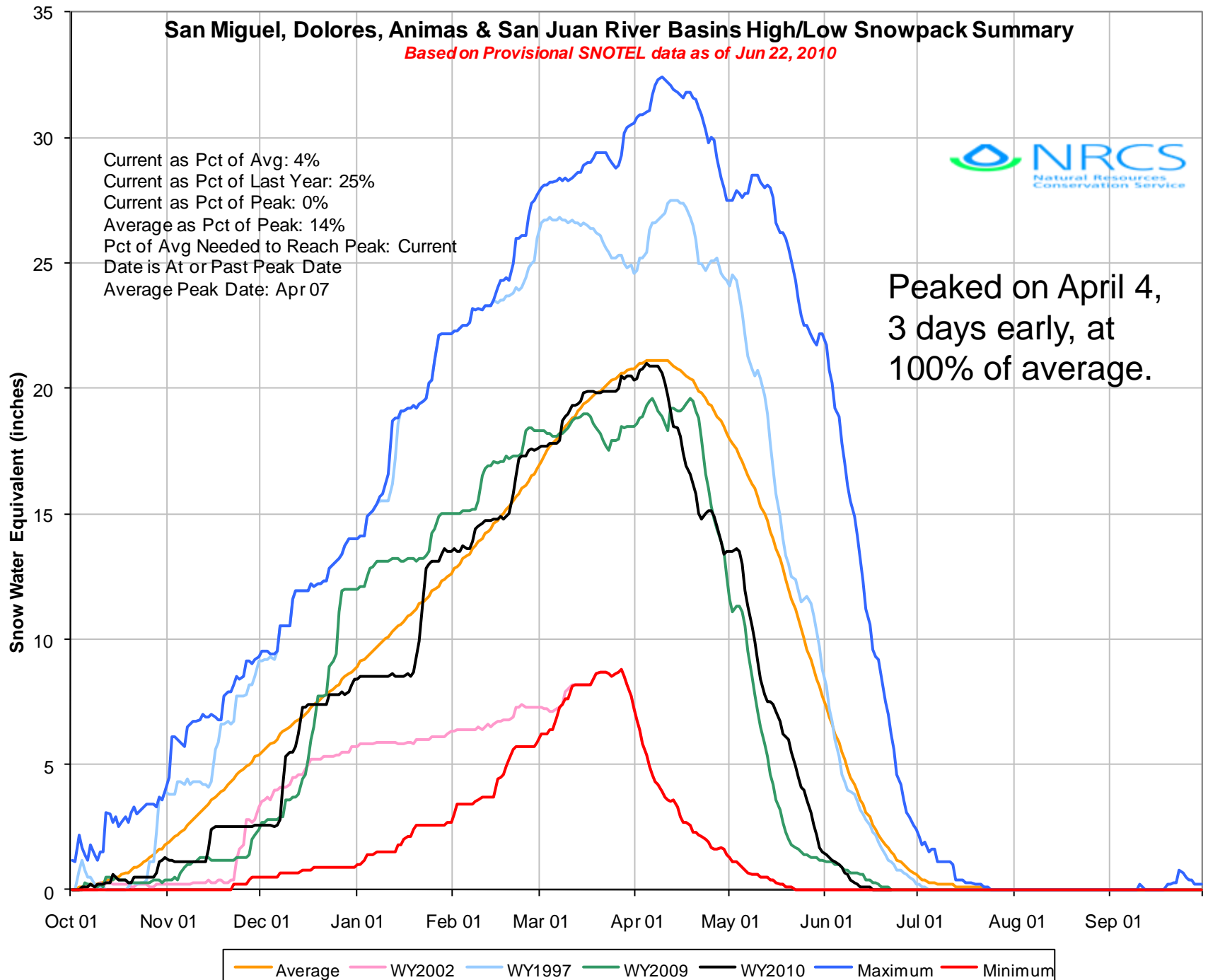
San Miguel, Dolores, Animas & San Juan River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 22, 2010



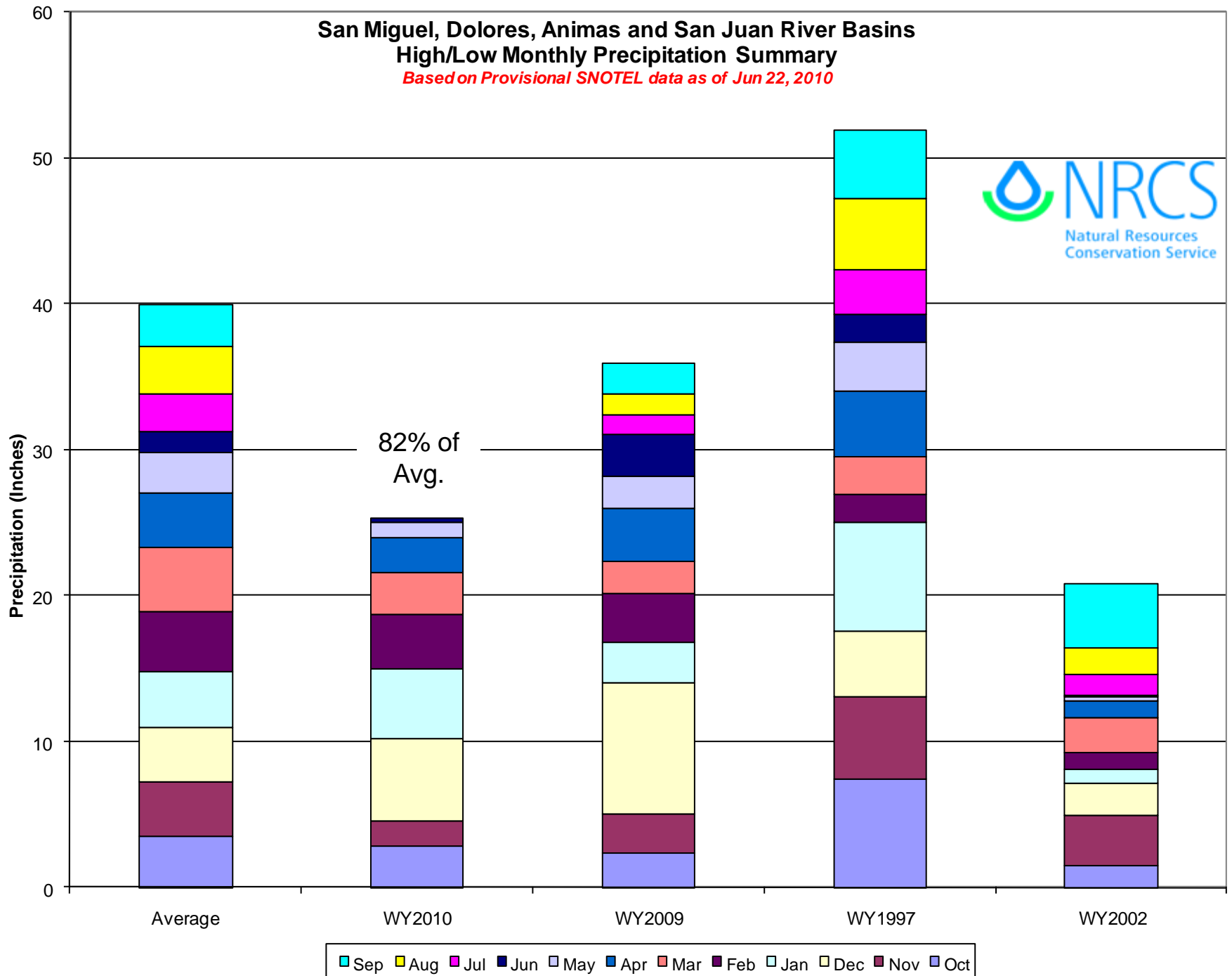
Current as Pct of Avg: 4%
Current as Pct of Last Year: 25%
Current as Pct of Peak: 0%
Average as Pct of Peak: 14%
Pct of Avg Needed to Reach Peak: Current
Date is At or Past Peak Date
Average Peak Date: Apr 07

Peaked on April 4,
3 days early, at
100% of average.



San Miguel, Dolores, Animas and San Juan River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 22, 2010

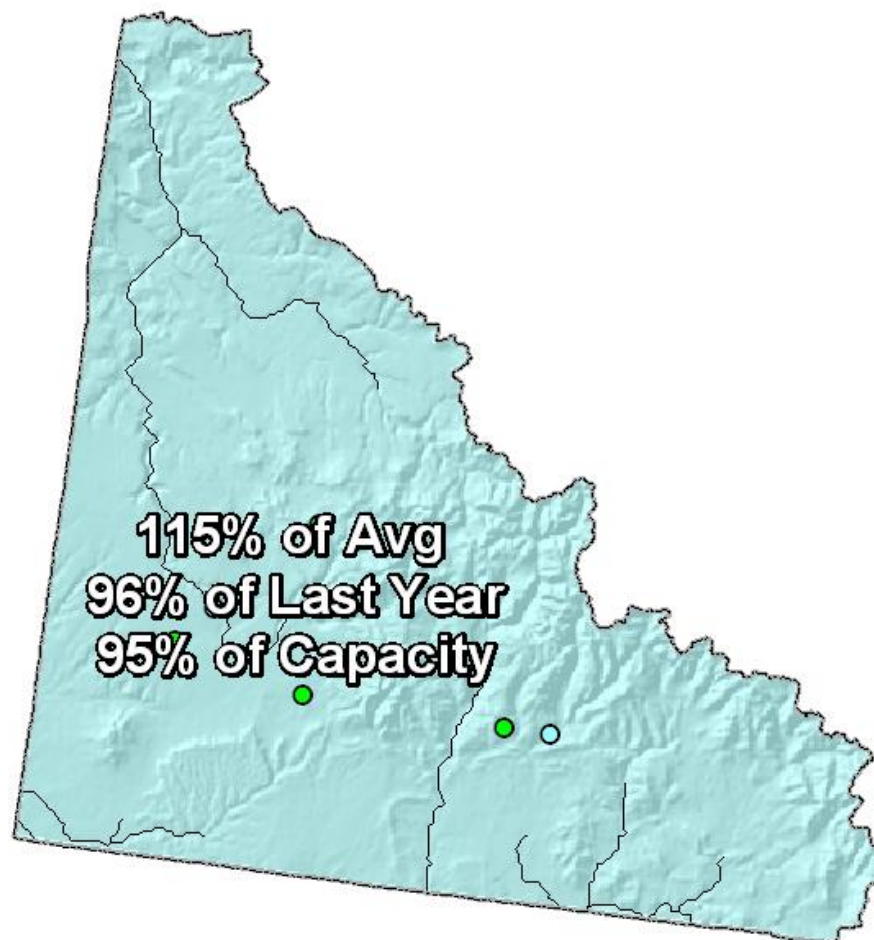


San Miguel, Dolores, Animas and San Juan River Basins Reservoir Storage Map

Percent of Average



*Provisional Data
Subject to Revision*

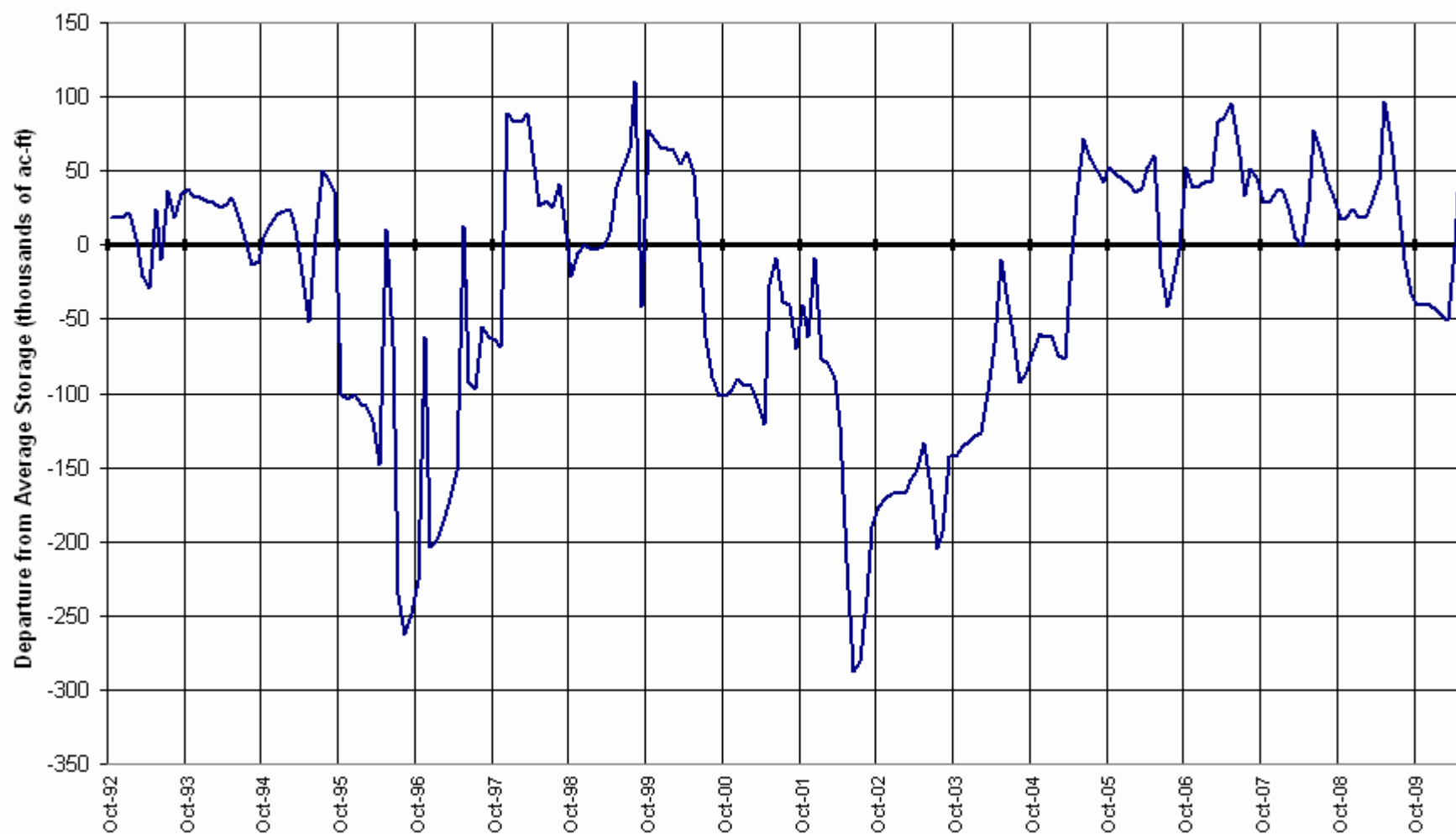


End of May 2010

SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

Reservoir Storage

Departure from Average

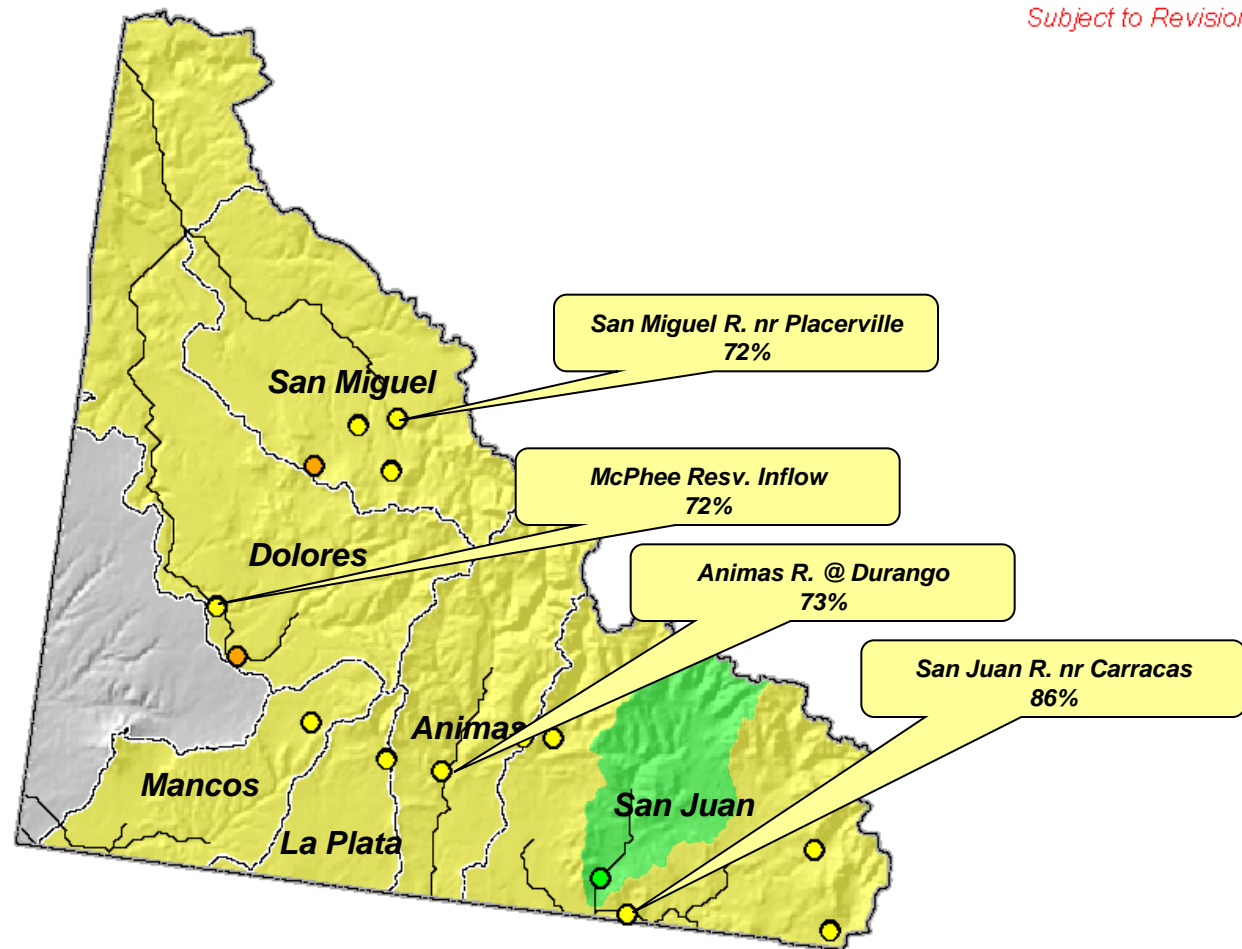


San Miguel, Dolores, Animas and San Juan River Basins Streamflow Forecast Map

Percent of Average

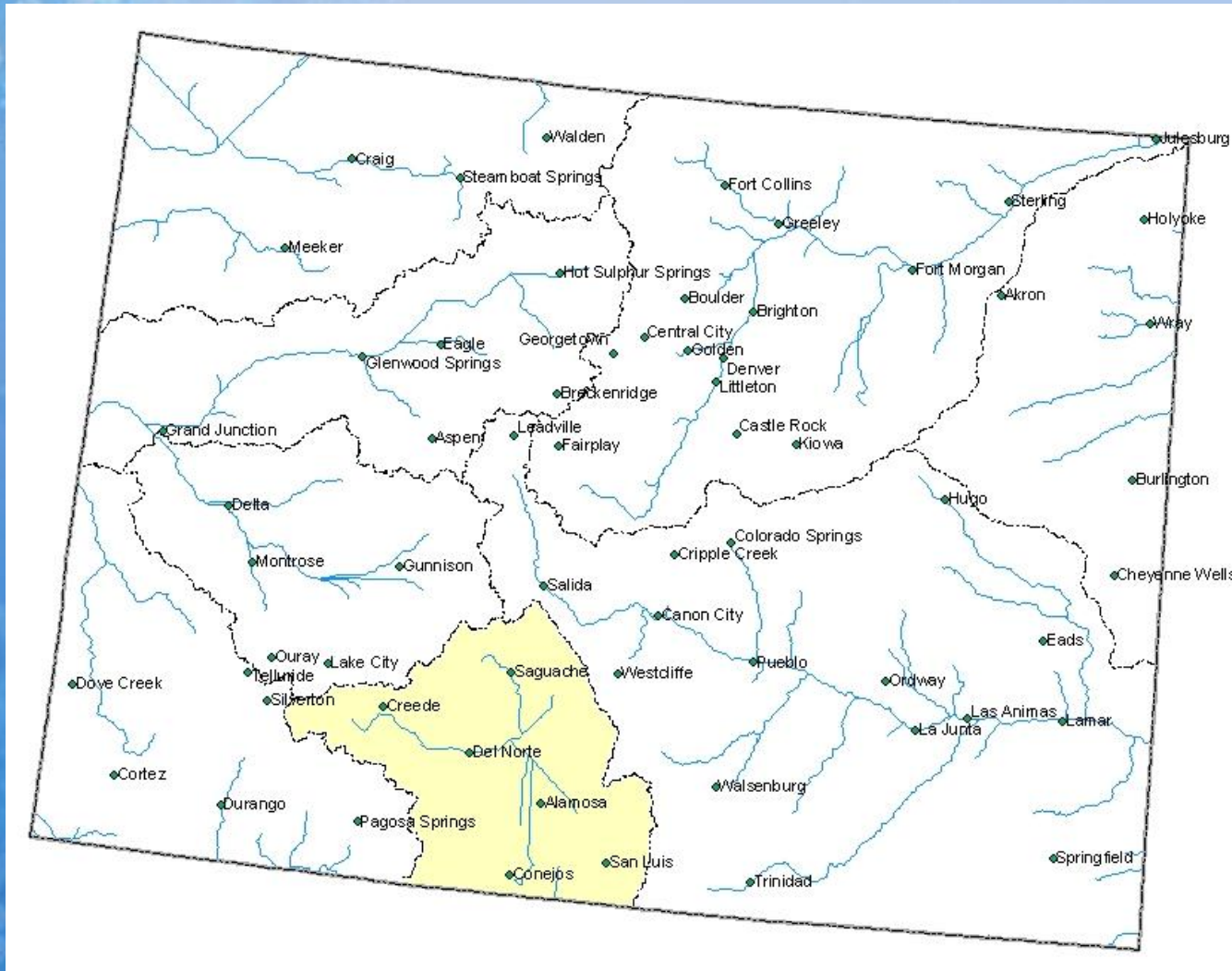


*Provisional Data
Subject to Revision*



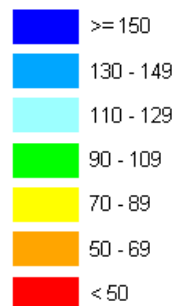
Current as of June 1, 2010

Upper Rio Grande Basin Summary

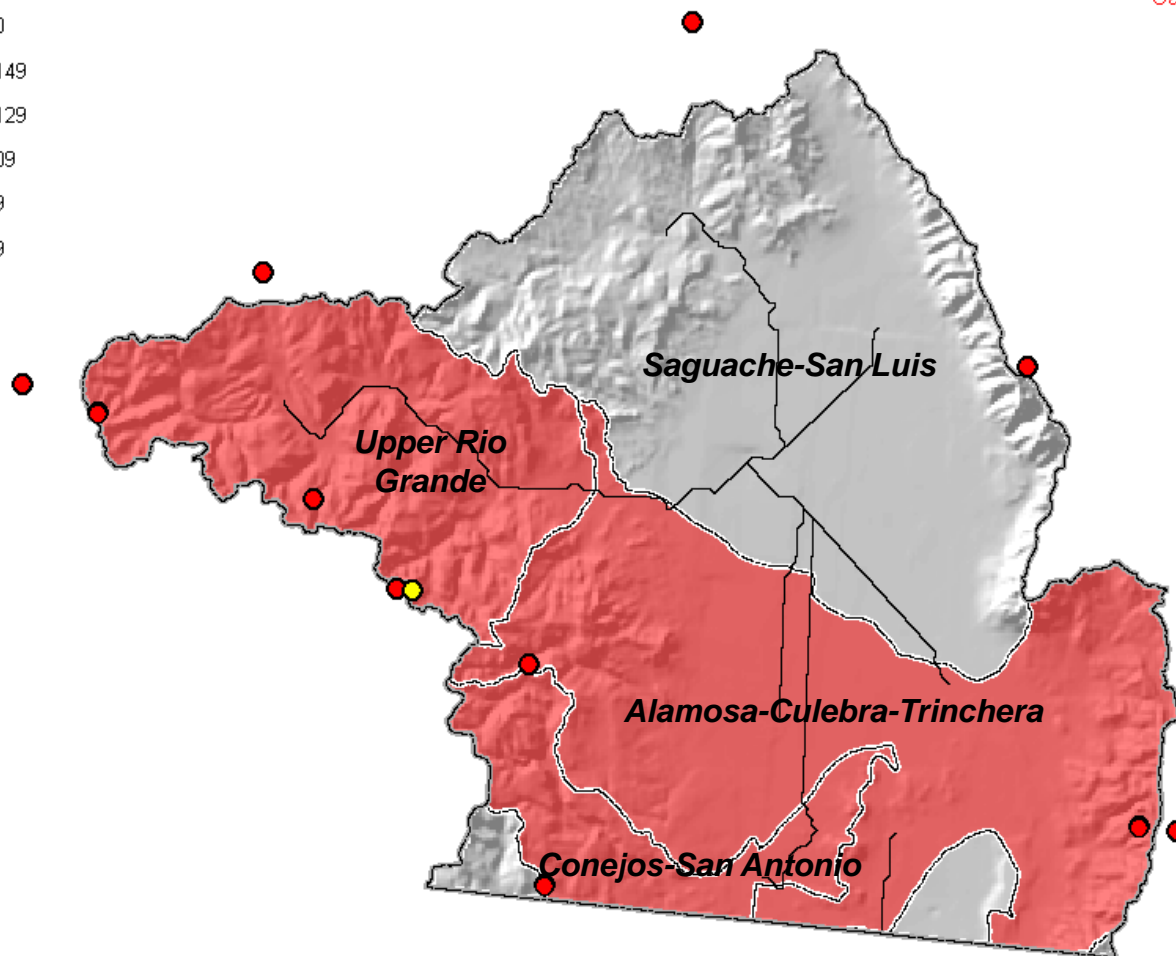


Upper Rio Grande Basin Snowpack Map

Percent of Average

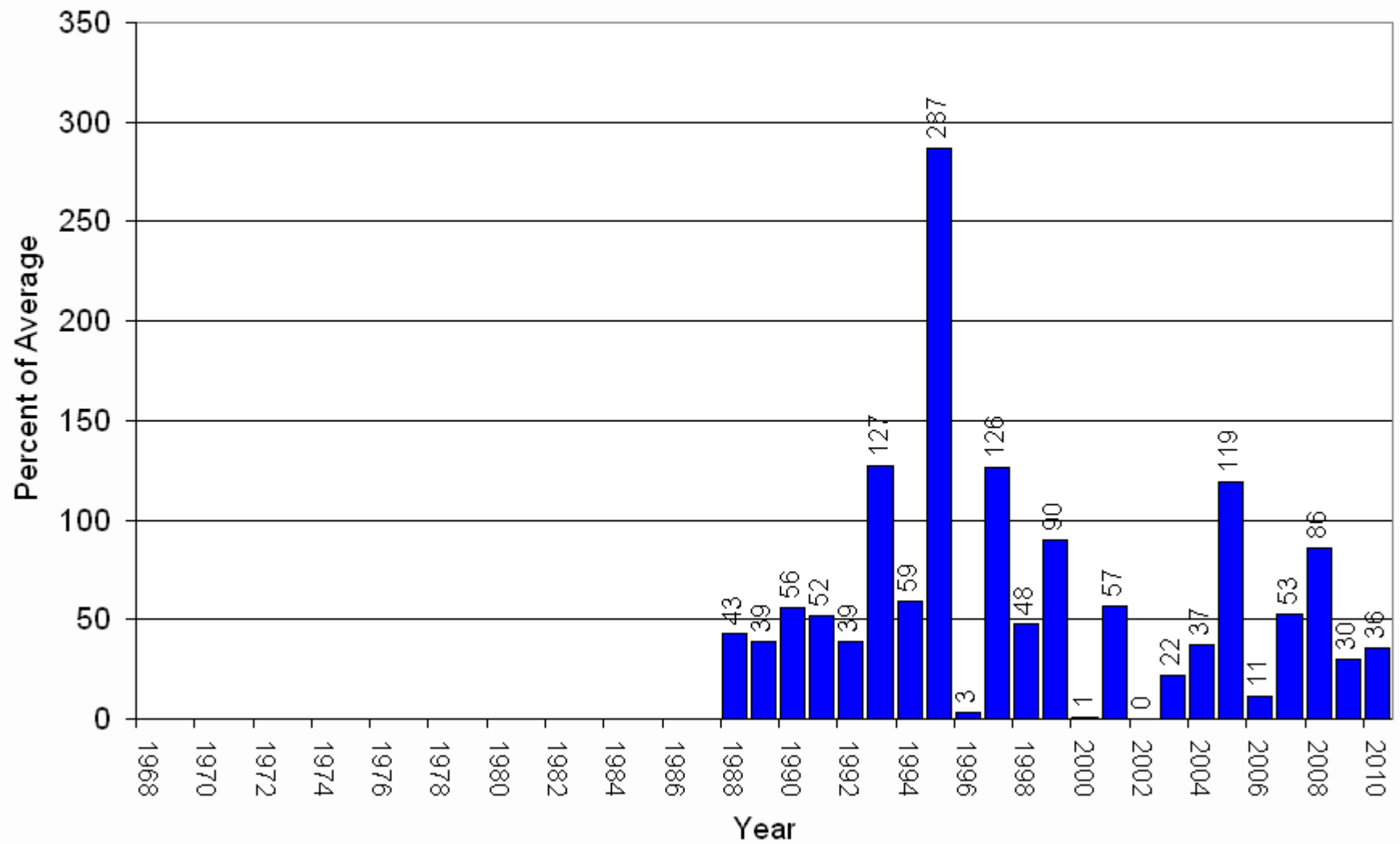


*Provisional Data
Subject to Revision*



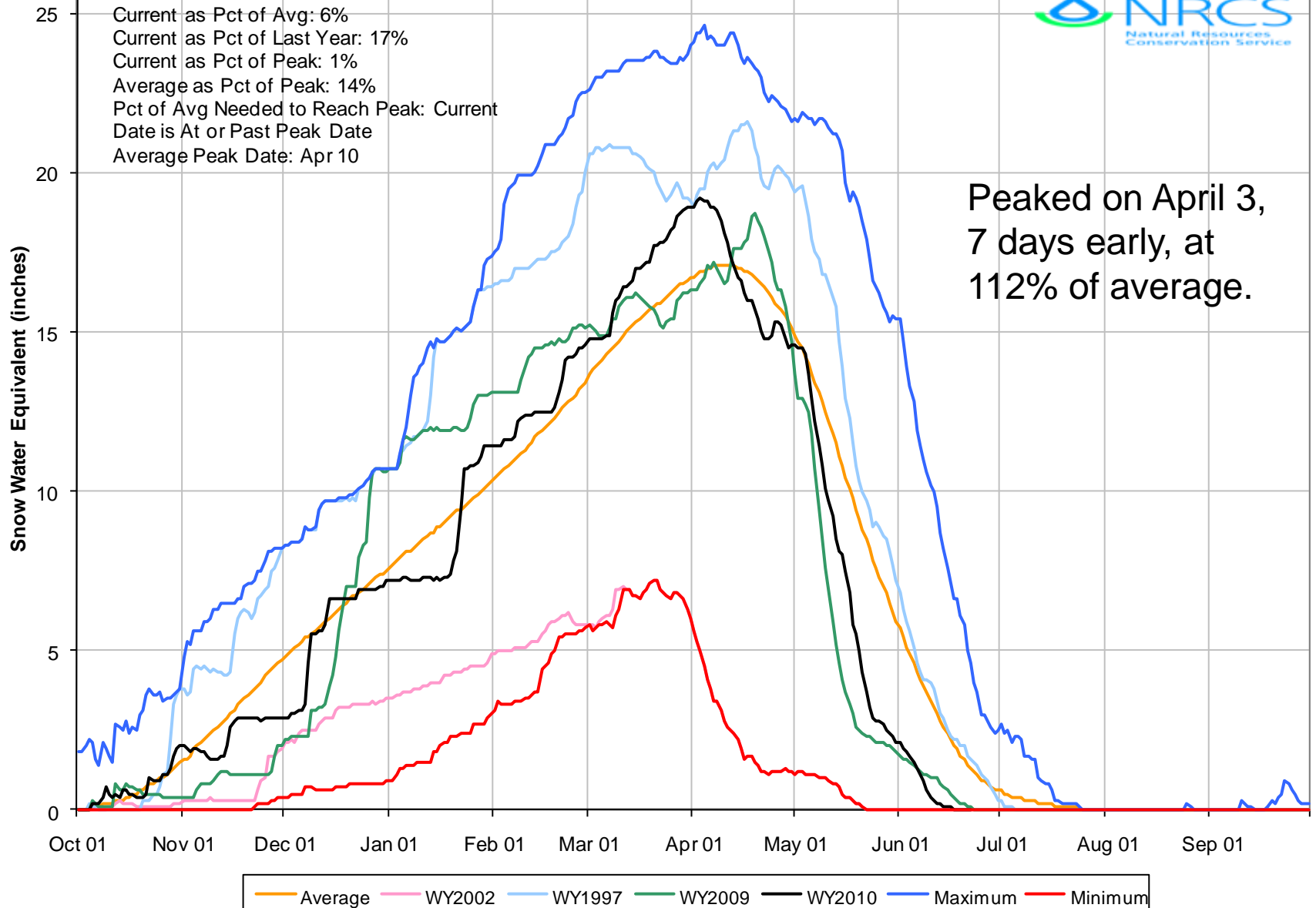
Current as of June 1, 2010

June 1 Total Upper Rio Grande Basin Snowpack



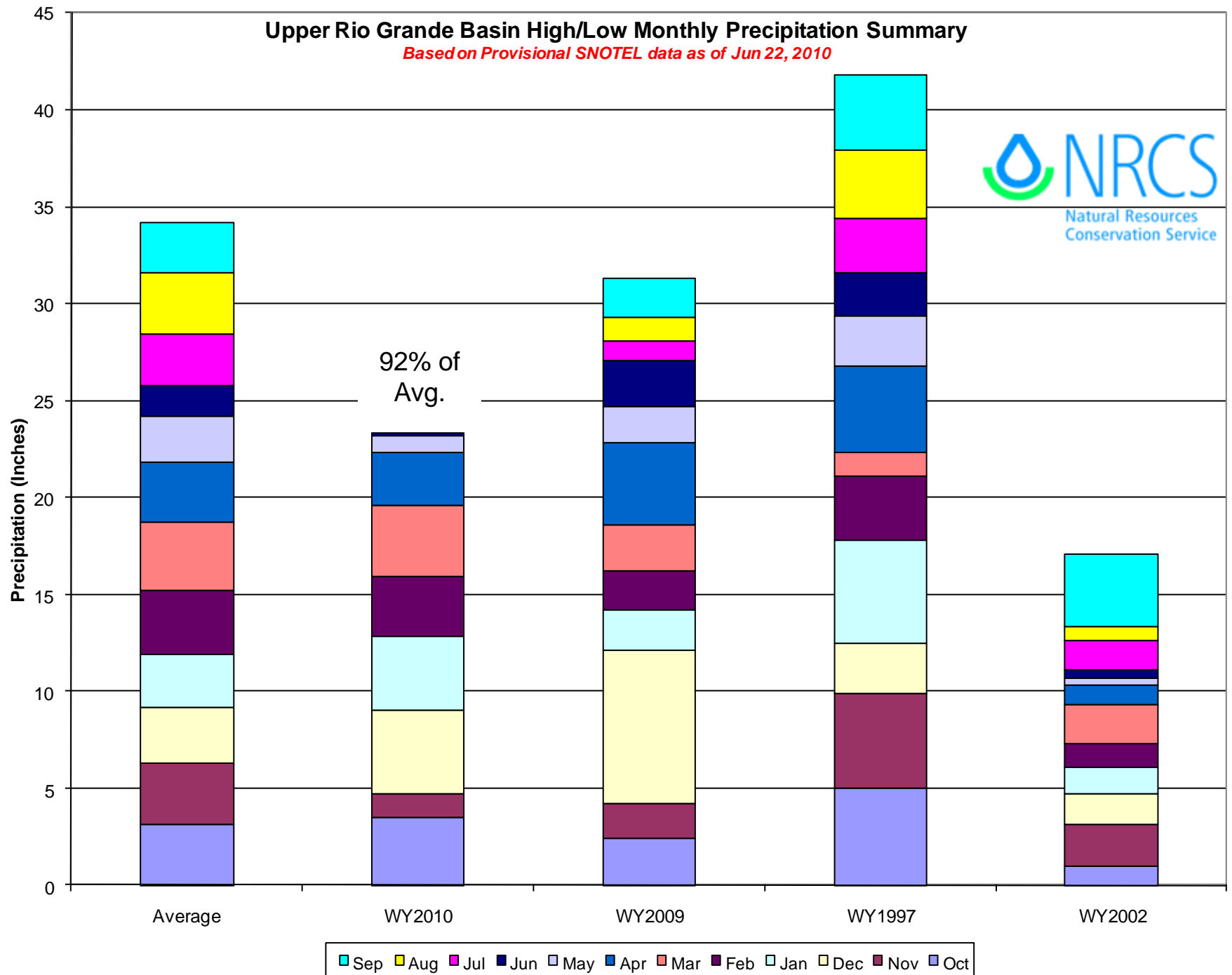
Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 22, 2010



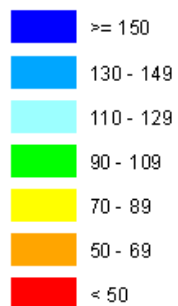
Upper Rio Grande Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 22, 2010

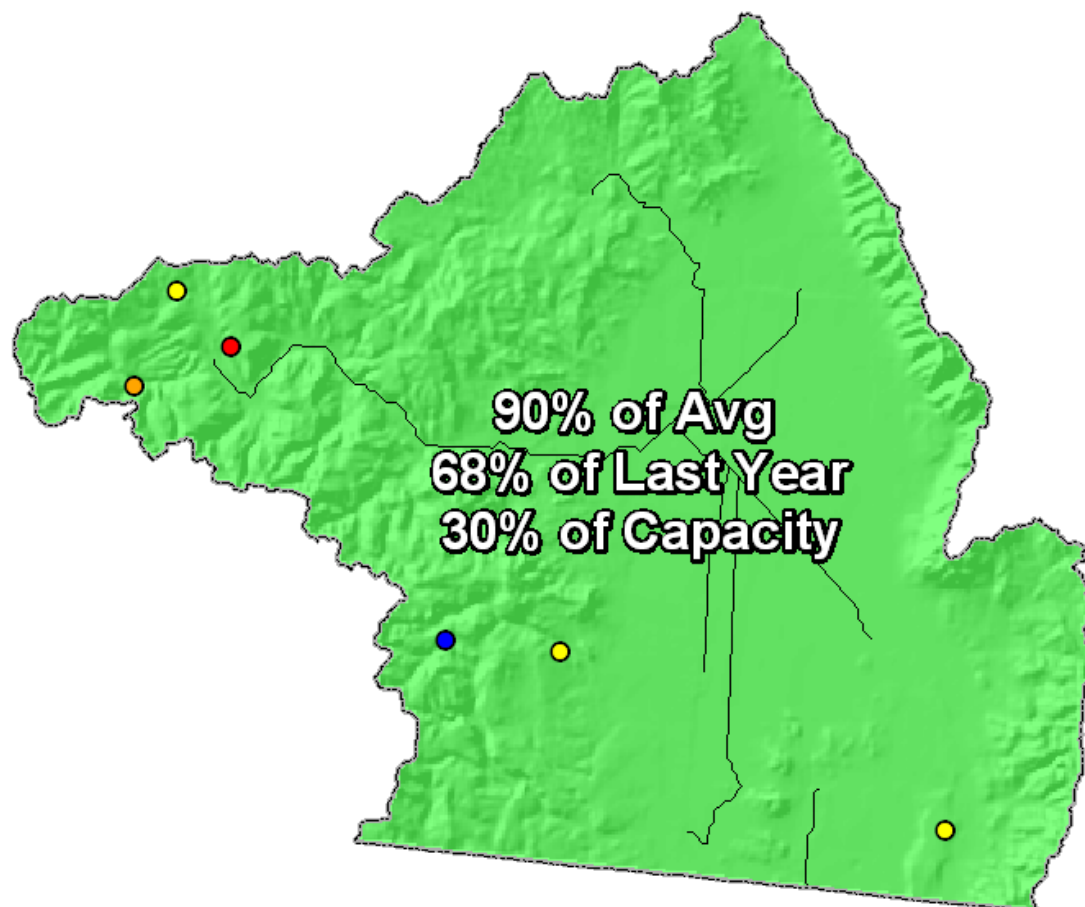


Upper Rio Grande Basin Reservoir Storage Map

Percent of Average

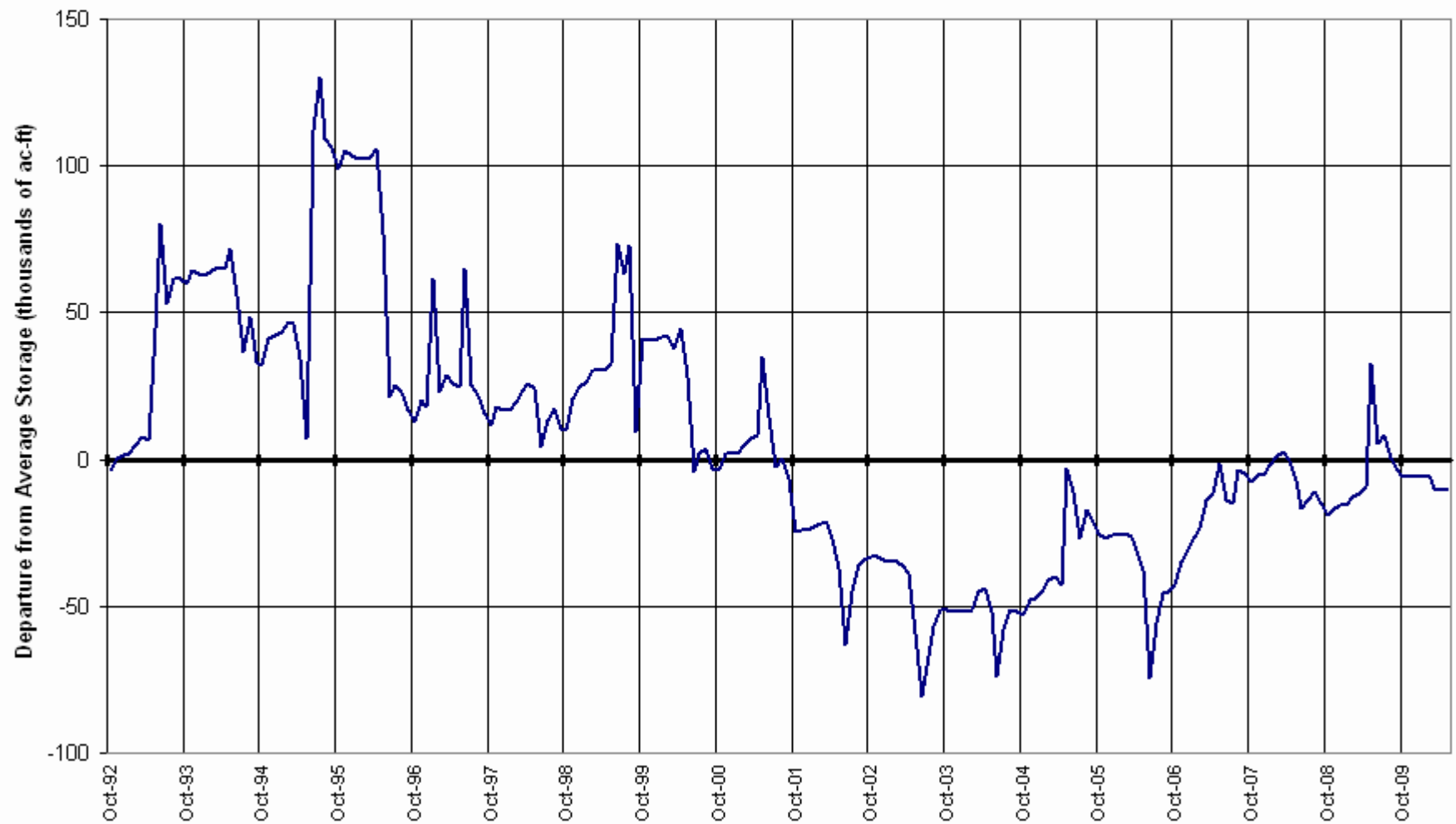


*Provisional Data
Subject to Revision*



End of May 2010

UPPER RIO GRANDE BASIN
Reservoir Storage
Departure from Average

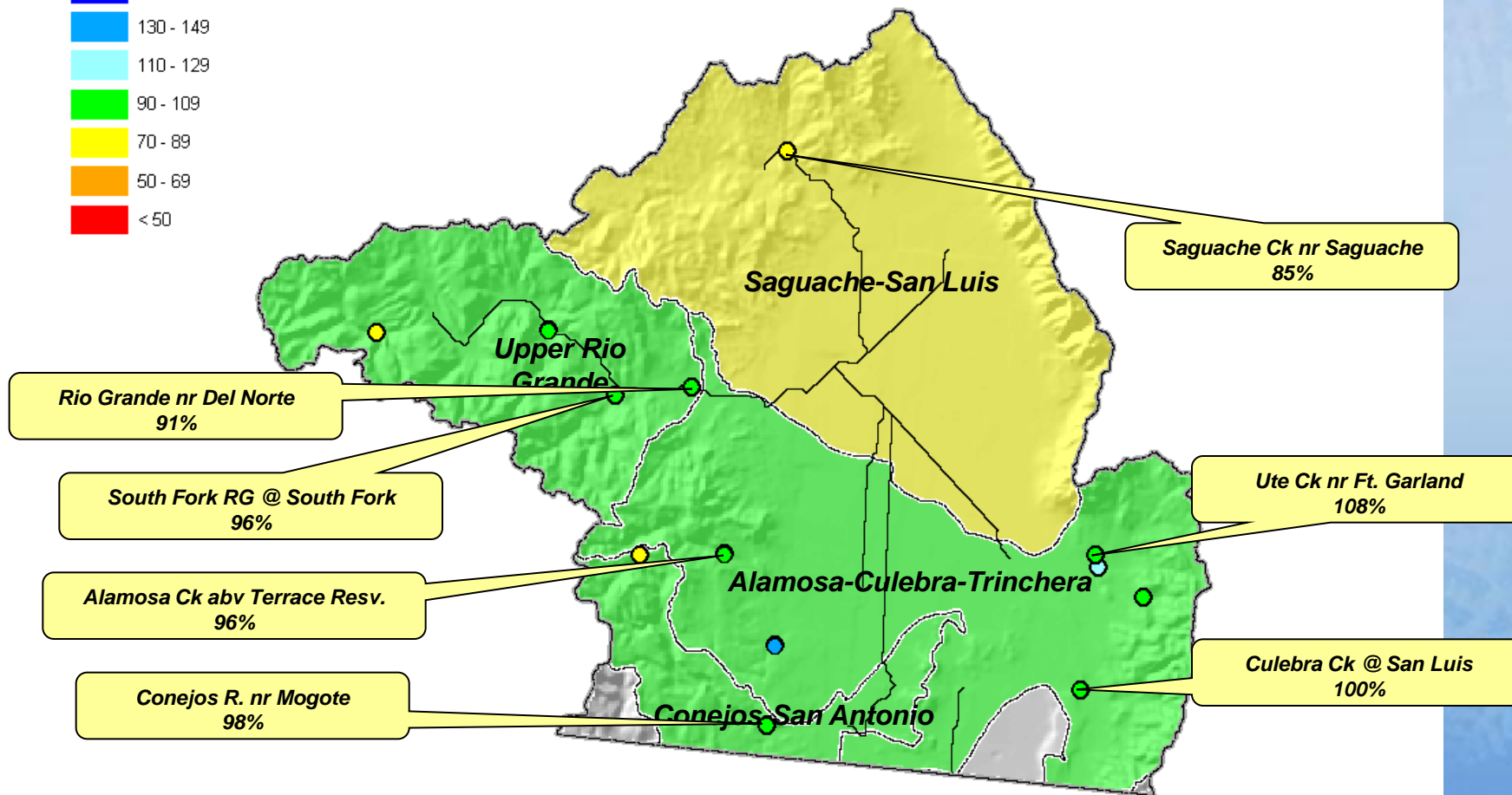


Upper Rio Grande Basin Streamflow Forecast Map

Percent of Average

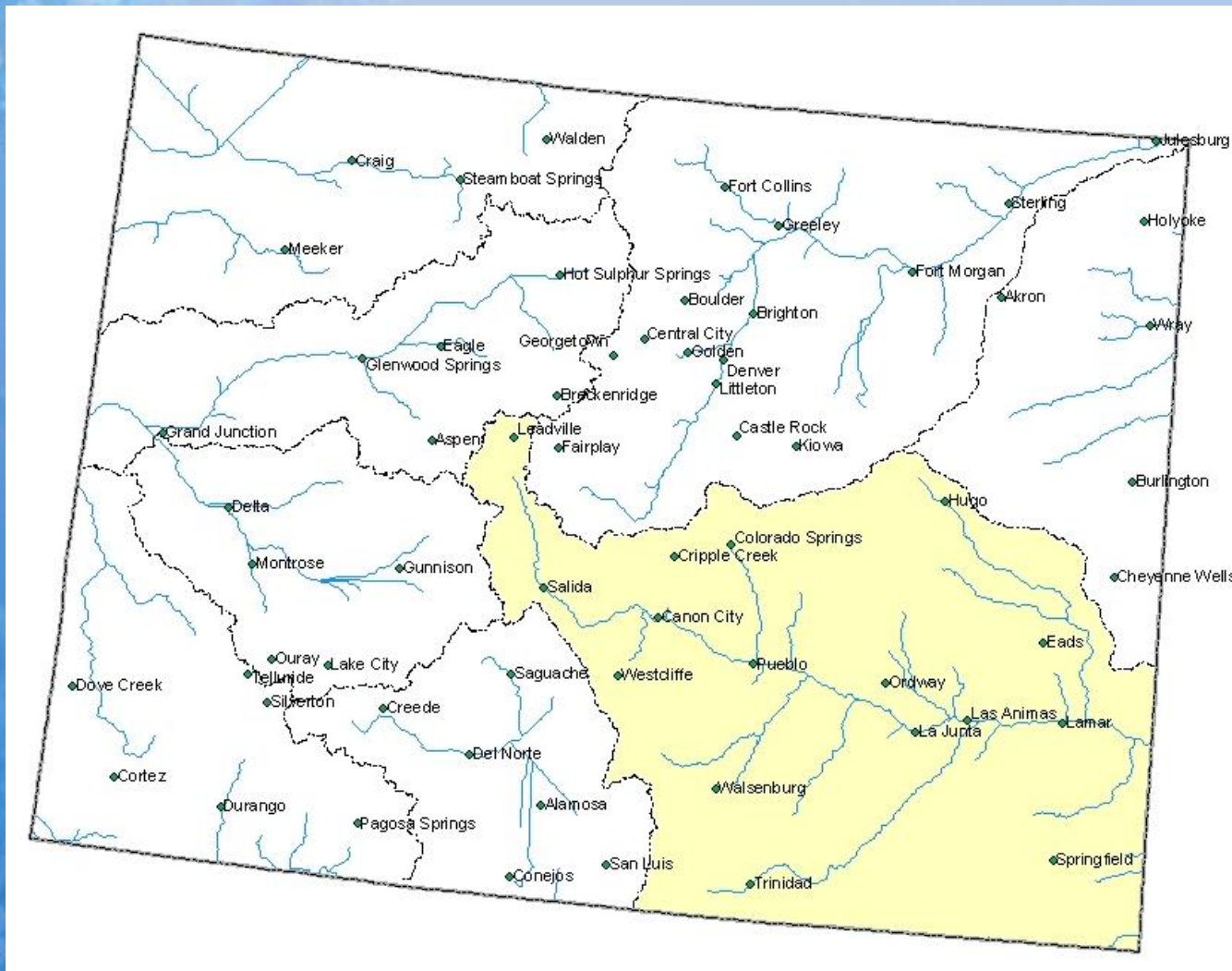


*Provisional Data
Subject to Revision*



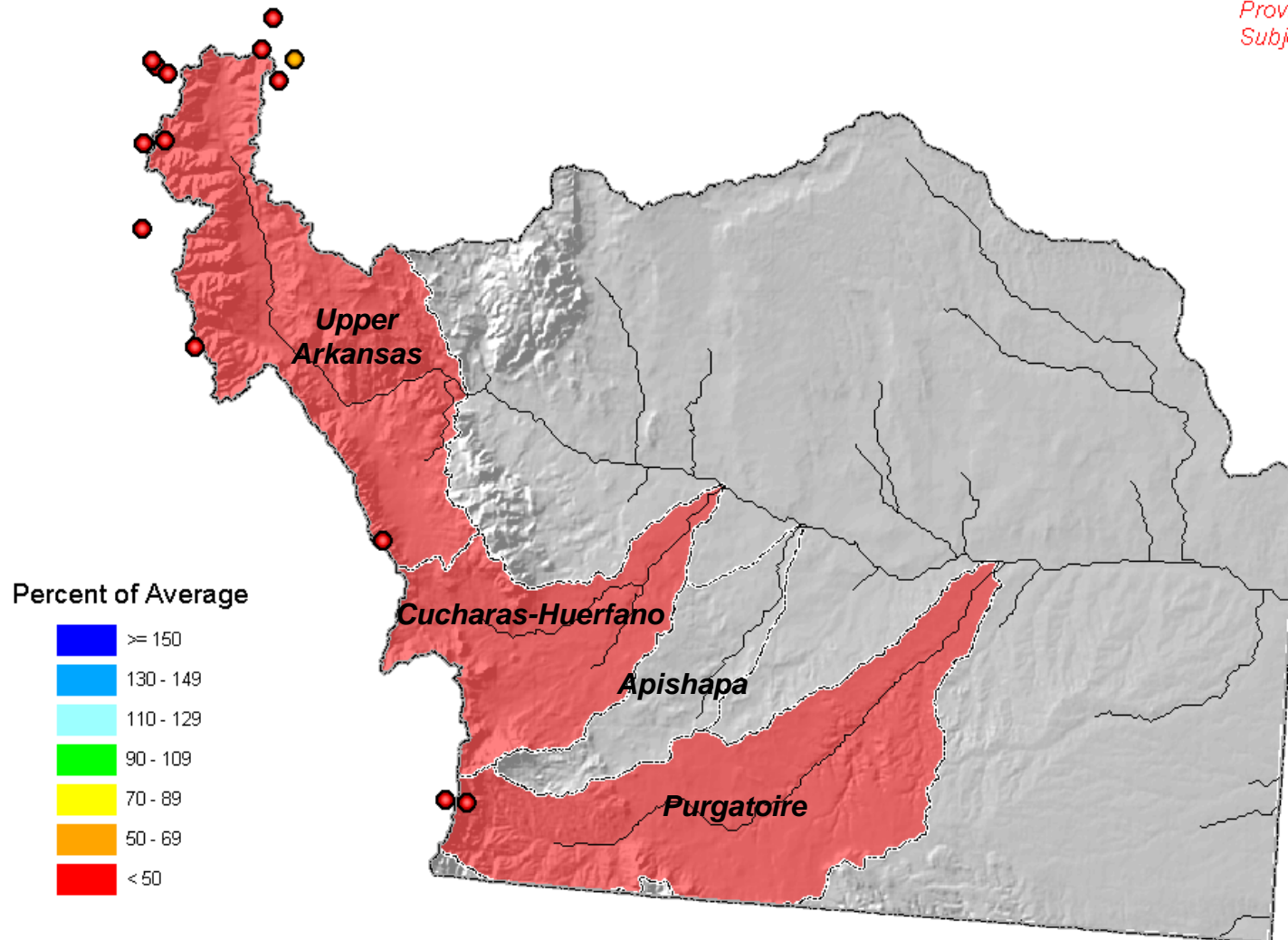
Current as of June 1, 2010

Arkansas River Basin Summary



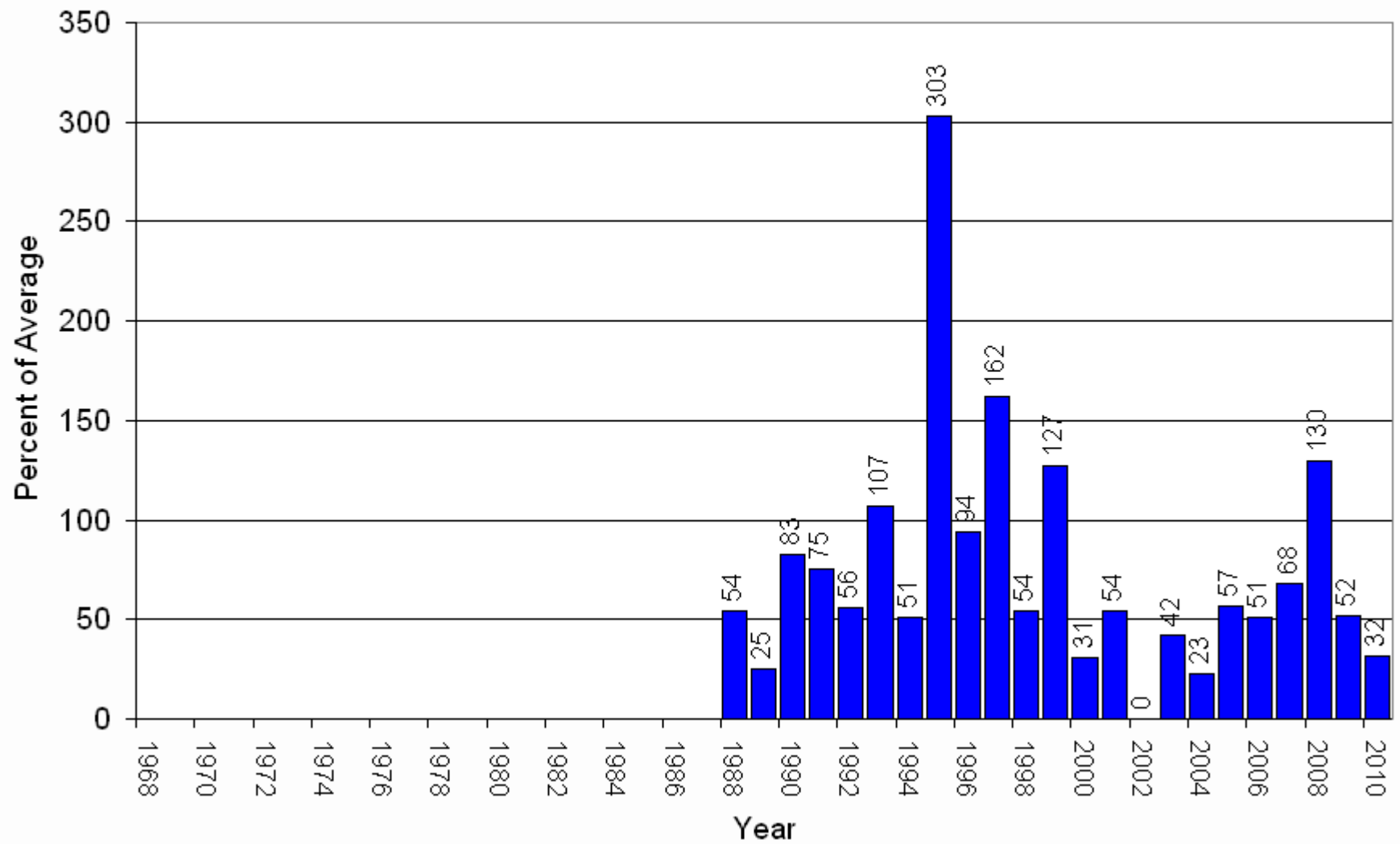
Arkansas River Basin Snowpack Map

*Provisional Data
Subject to Revision*



Current as of June 1, 2010

June 1 Total Arkansas River Basin Snowpack



Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 22, 2010



Current as Pct of Avg: 12%
Current as Pct of Last Year: 29%
Current as Pct of Peak: 1%
Average as Pct of Peak: 14%
Pct of Avg Needed to Reach Peak: Current
Date is At or Past Peak Date
Average Peak Date: Apr 13

Snow Water Equivalent (inches)

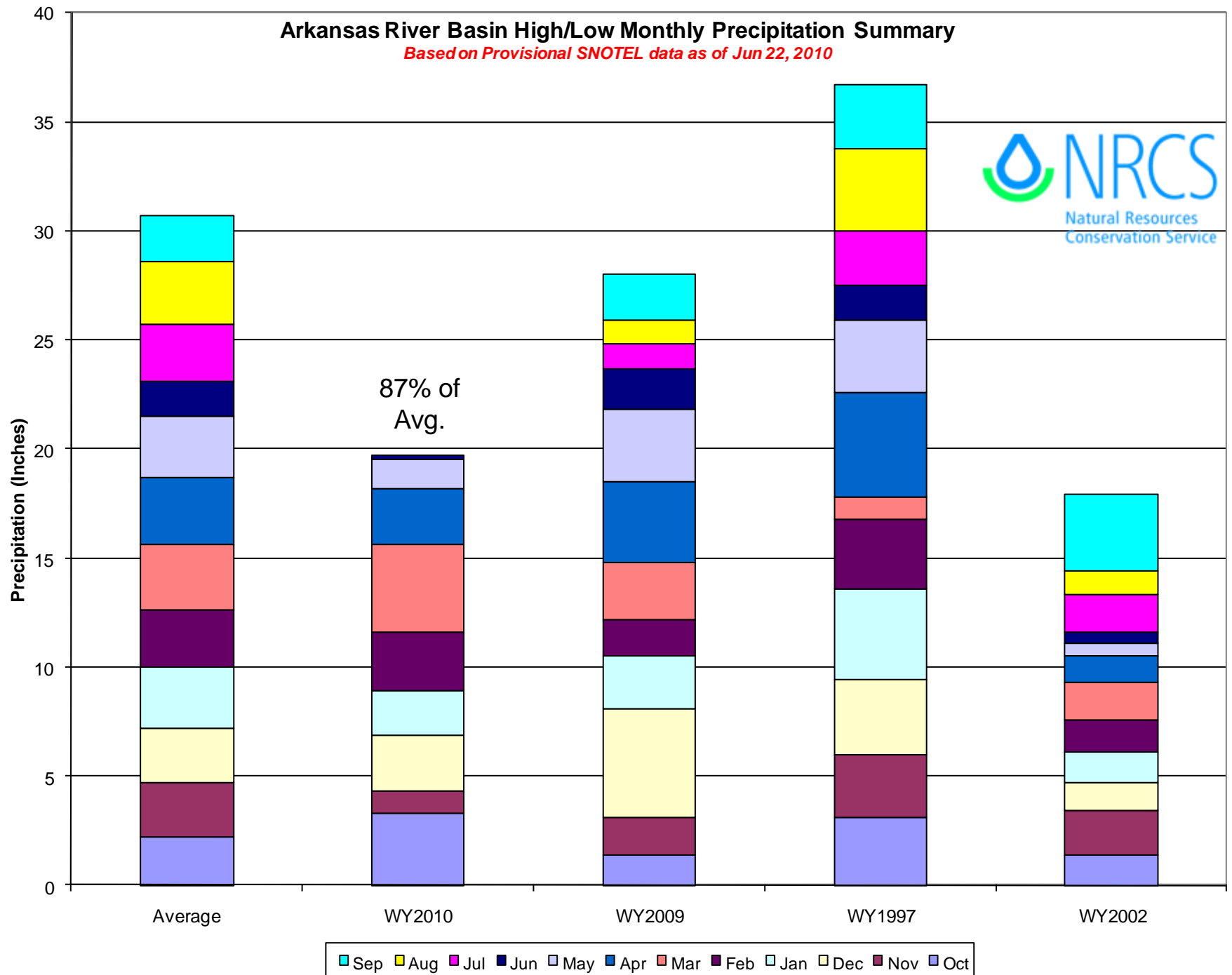
Peaked on April 5,
8 days early, at
104% of average.

Oct 01 Nov 01 Dec 01 Jan 01 Feb 01 Mar 01 Apr 01 May 01 Jun 01 Jul 01 Aug 01 Sep 01

— Average — WY2002 — WY1997 — WY2009 — WY2010 — Maximum — Minimum

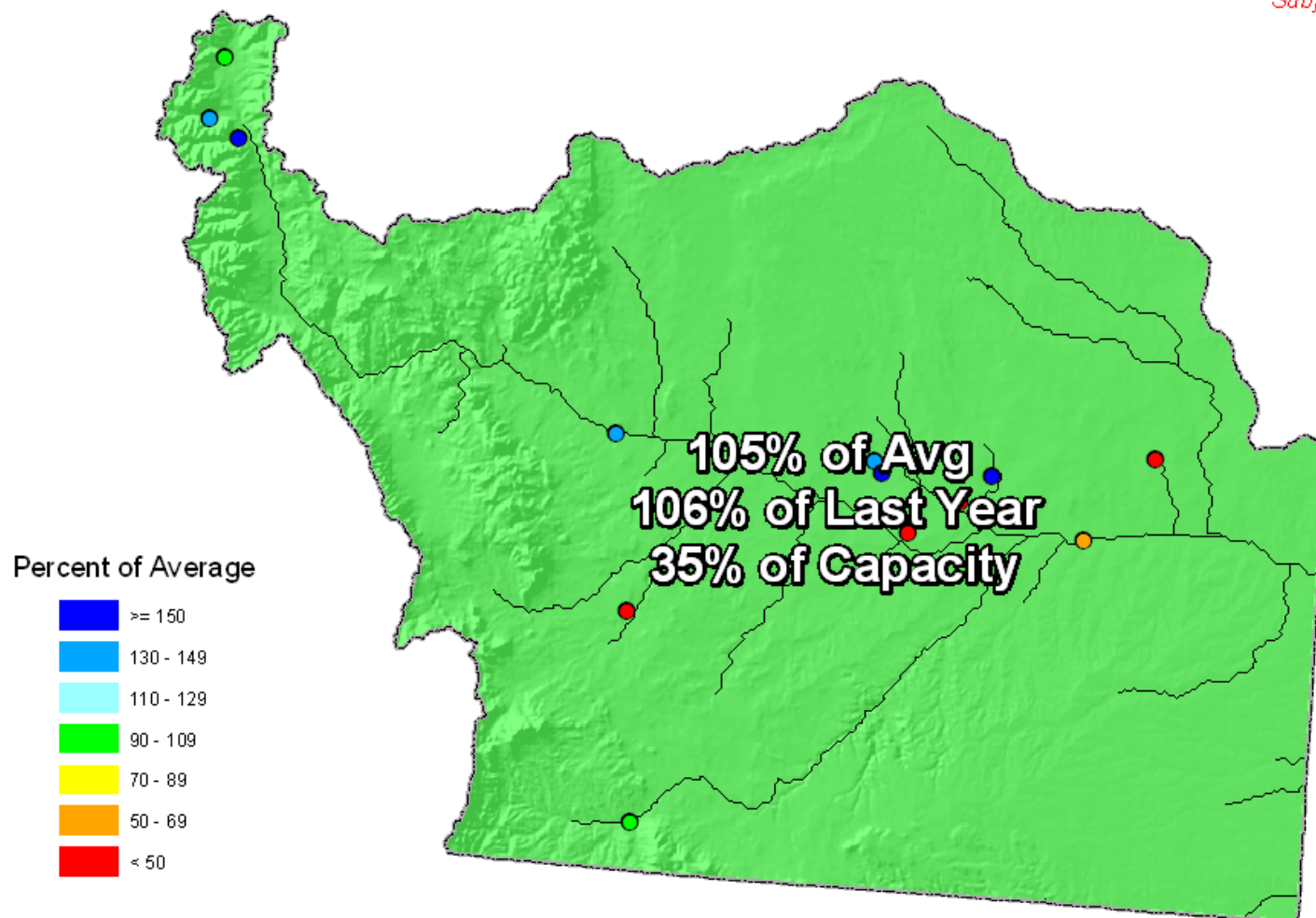
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 22, 2010



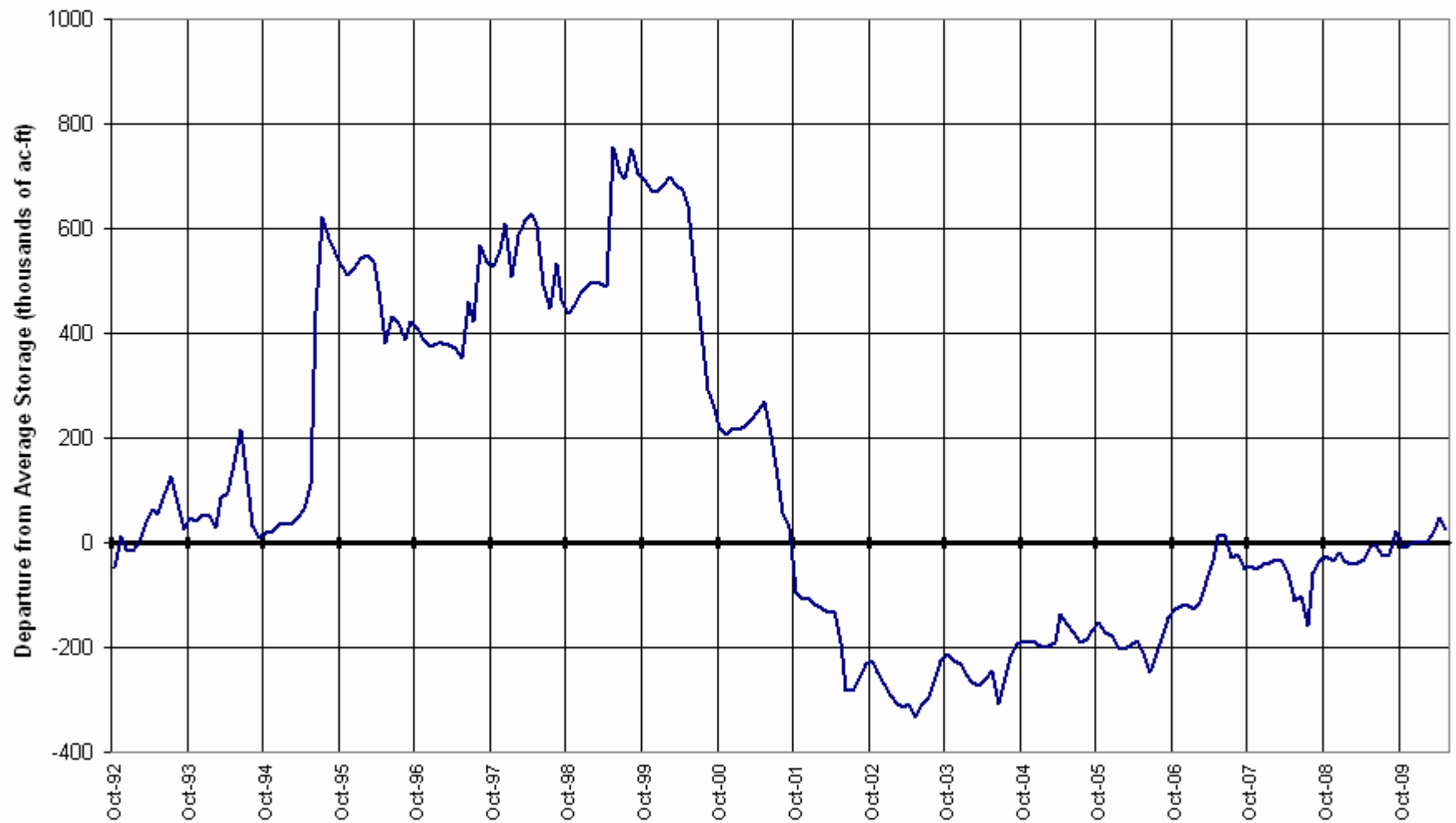
Arkansas River Basin Reservoir Storage Map

*Provisional Data
Subject to Revision*



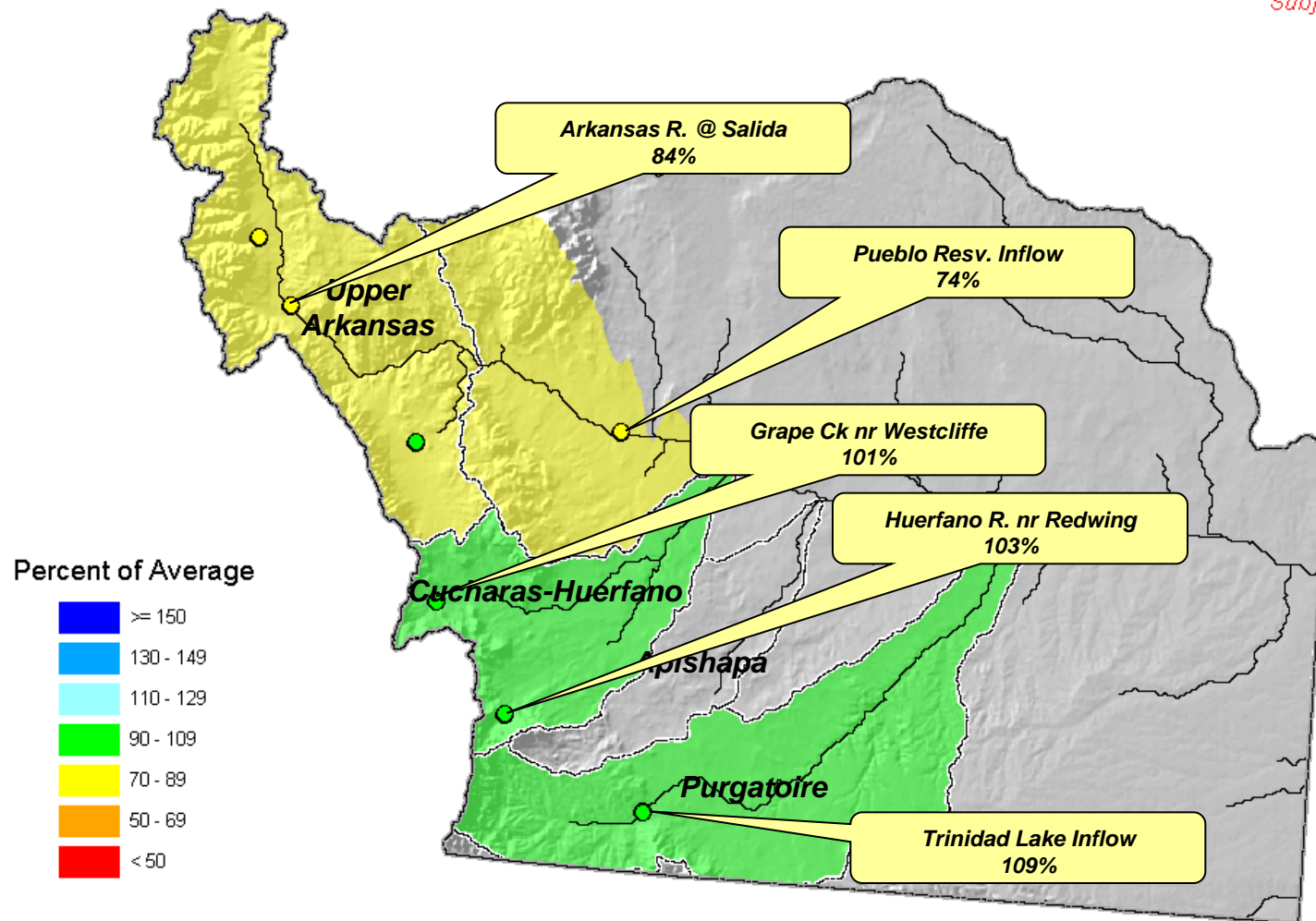
End of May 2010

ARKANSAS RIVER BASIN
Reservoir Storage
Departure from Average



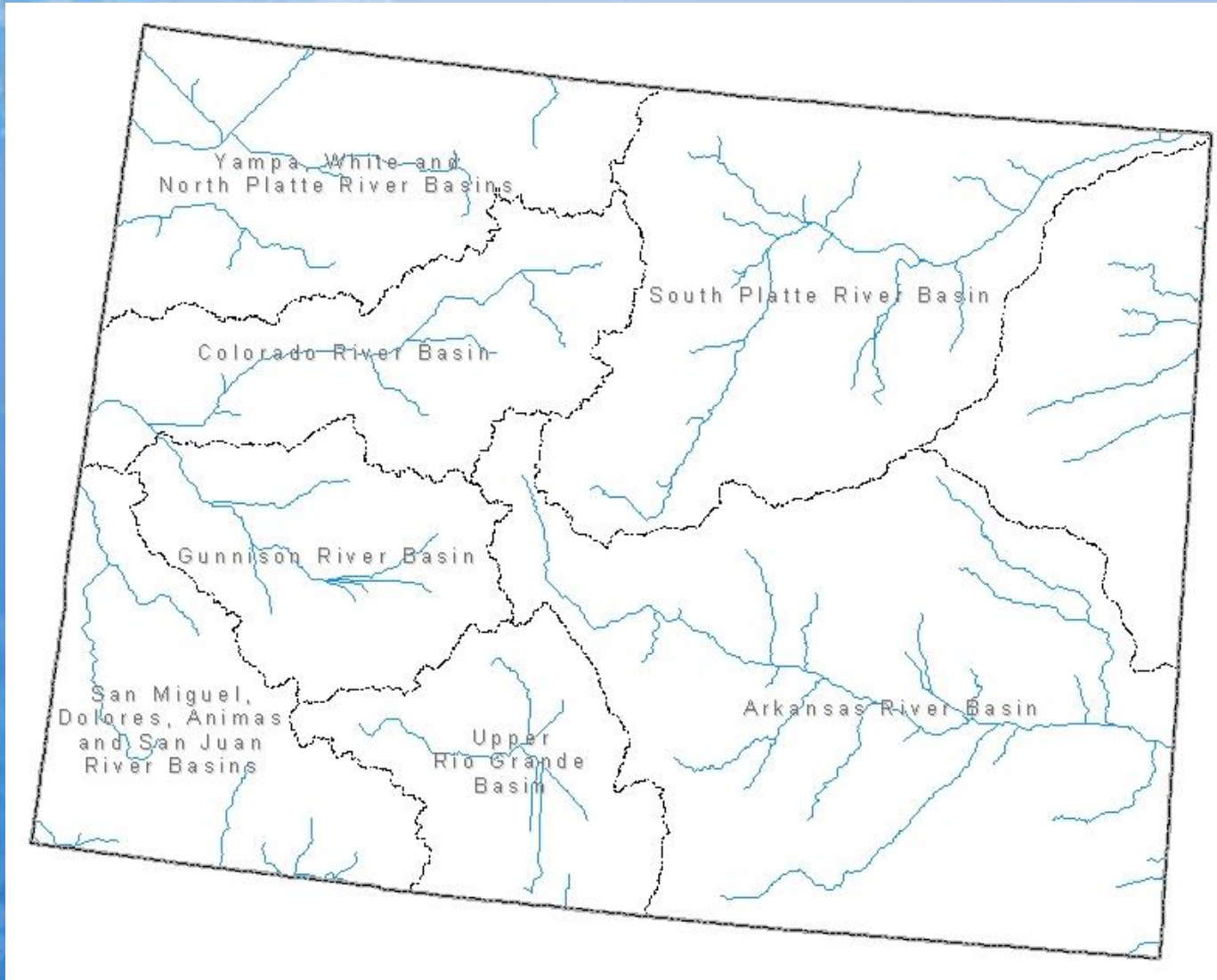
Arkansas River Basin Streamflow Forecast Map

*Provisional Data
Subject to Revision*



Current as of June 1, 2010

Colorado Statewide Summary



Colorado Statewide High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 22, 2010



Current as Pct of Avg: 28%
Current as Pct of Last Year: 120%
Current as Pct of Peak: 3%
Average as Pct of Peak: 12%
Pct of Avg Needed to Reach Peak: Current
Date is At or Past Peak Date
Average Peak Date: Apr 12

Snow Water Equivalent (inches)

Peaked April 7,
5 days early, at
93% of average.

Oct 01 Nov 01 Dec 01 Jan 01 Feb 01 Mar 01 Apr 01 May 01 Jun 01 Jul 01 Aug 01 Sep 01

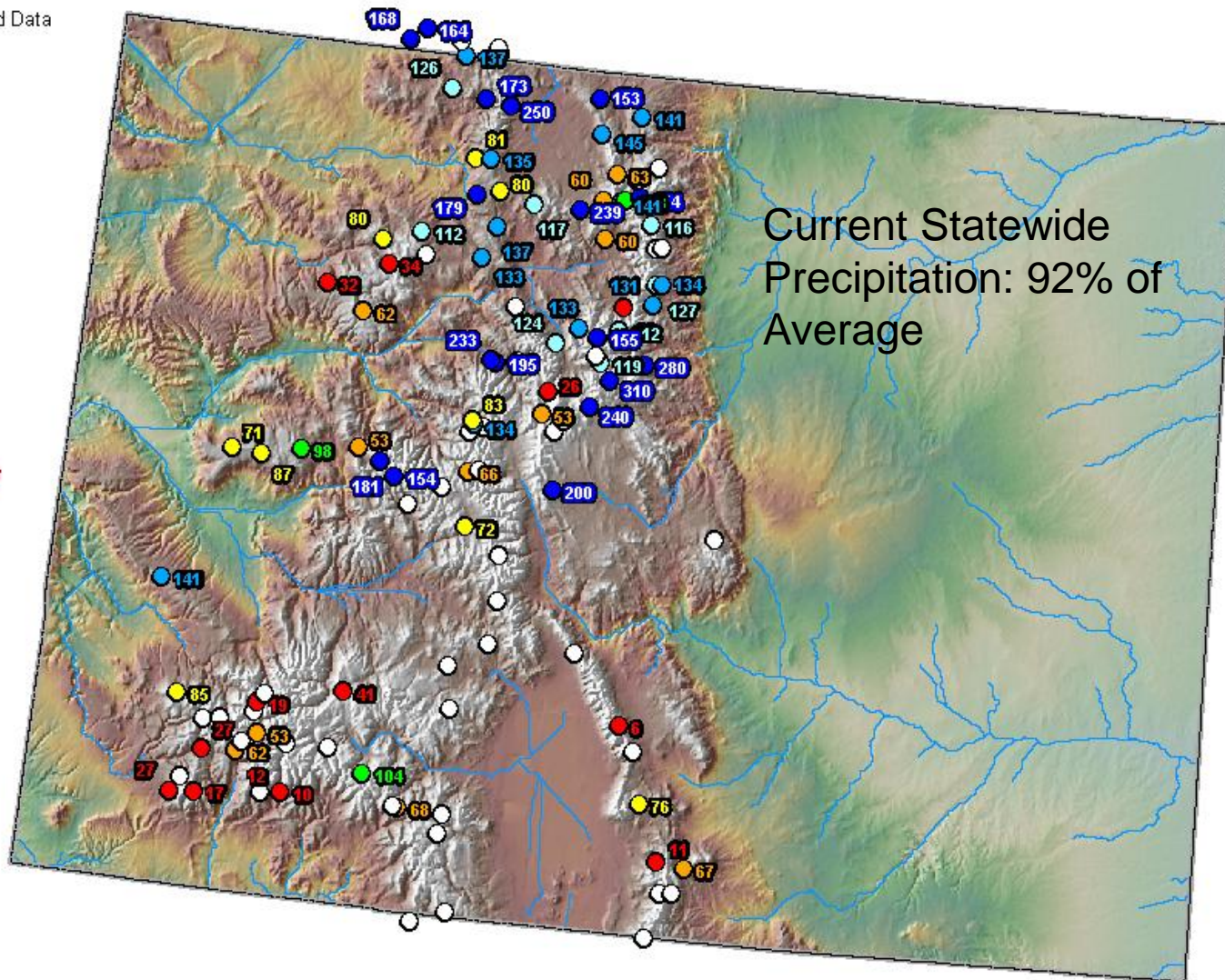
Average WY2002 WY1997 WY2009 WY2010 Maximum Minimum

Colorado SNOTEL Month-to-Date Precipitation

Percent of Average

- Missing or Invalid Data
- < 50
- 50 - 69
- 70 - 89
- 90 - 109
- 110 - 129
- 130 - 149
- ≥ 150

*Provisional Data
Subject to Revision*

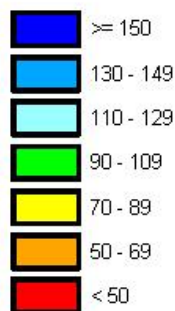


Current as of Jun 22, 2010

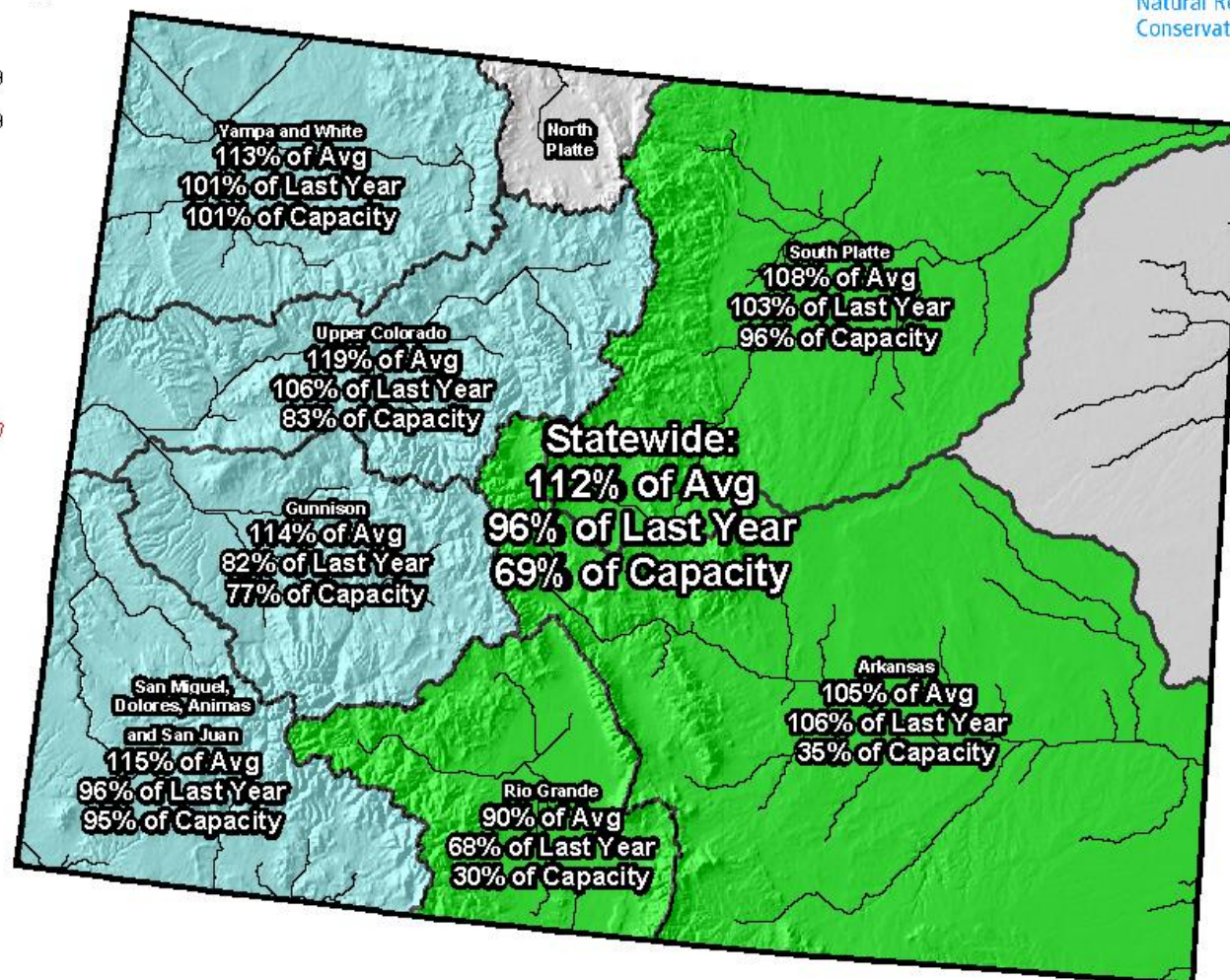
Colorado Reservoir Storage Map



Percent of Average

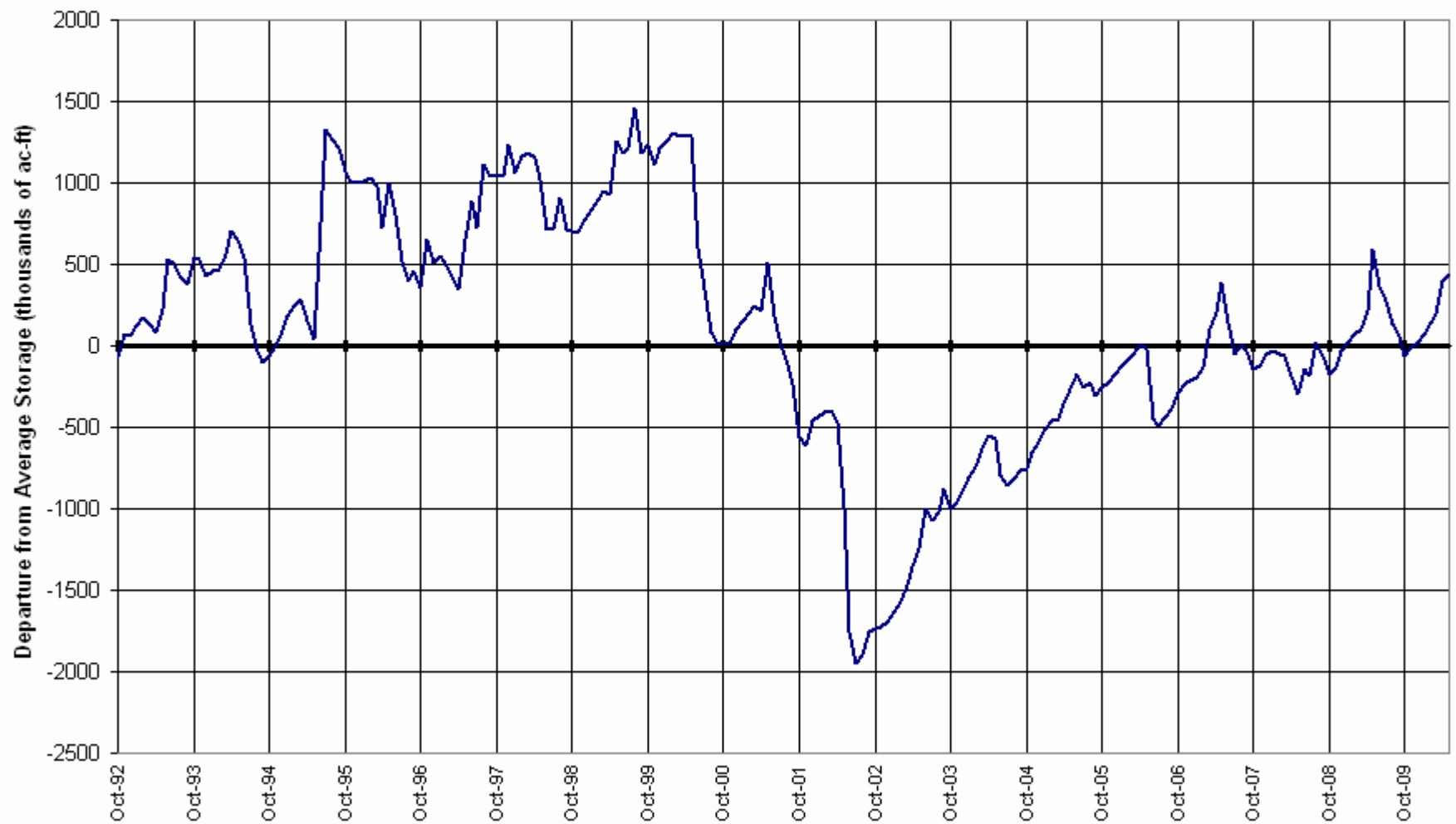


*Provisional Data
Subject to Revision*



End of May 2010

COLORADO STATEWIDE
Reservoir Storage
Departure from Average

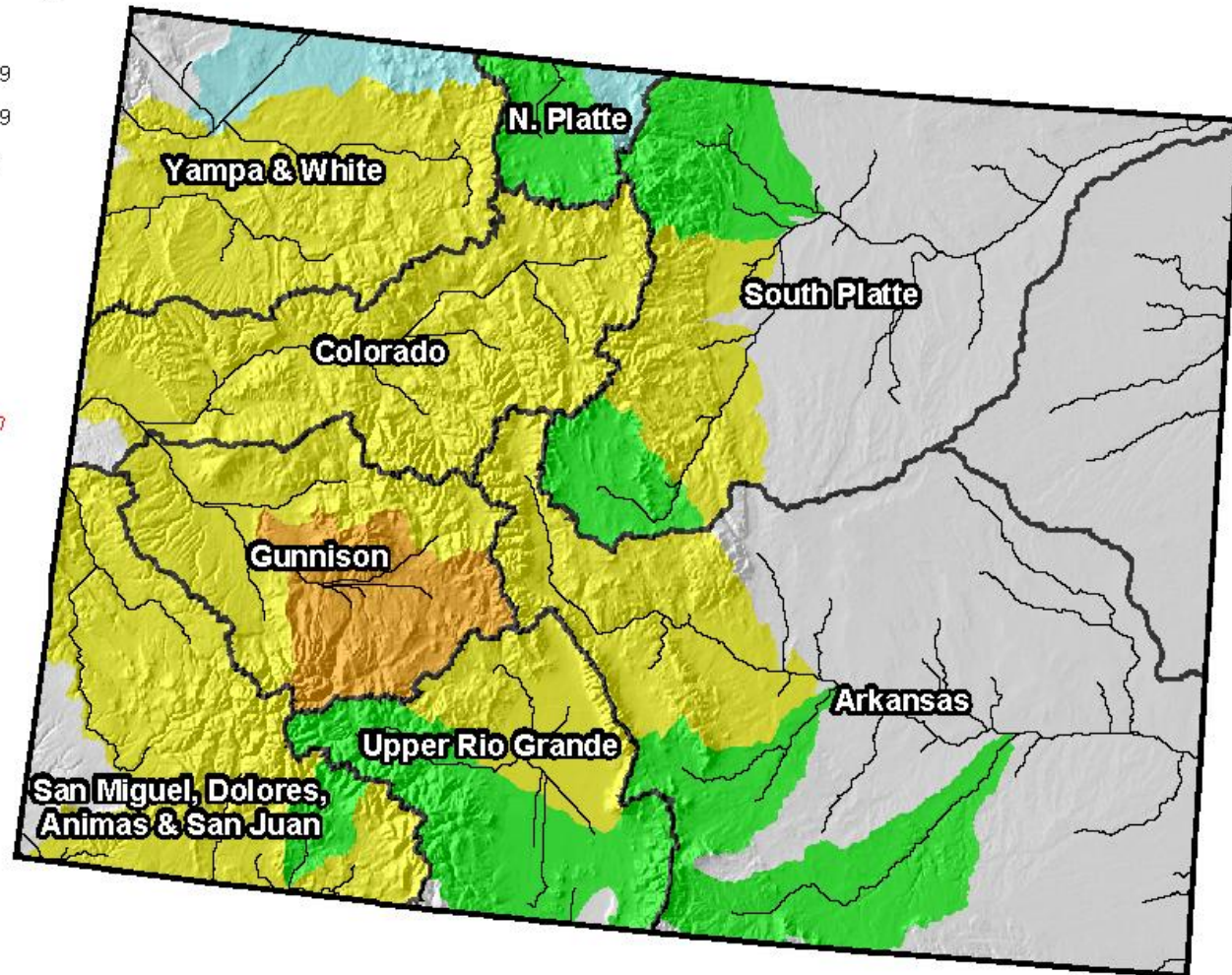


Colorado Streamflow Forecast Map

Percent of Average

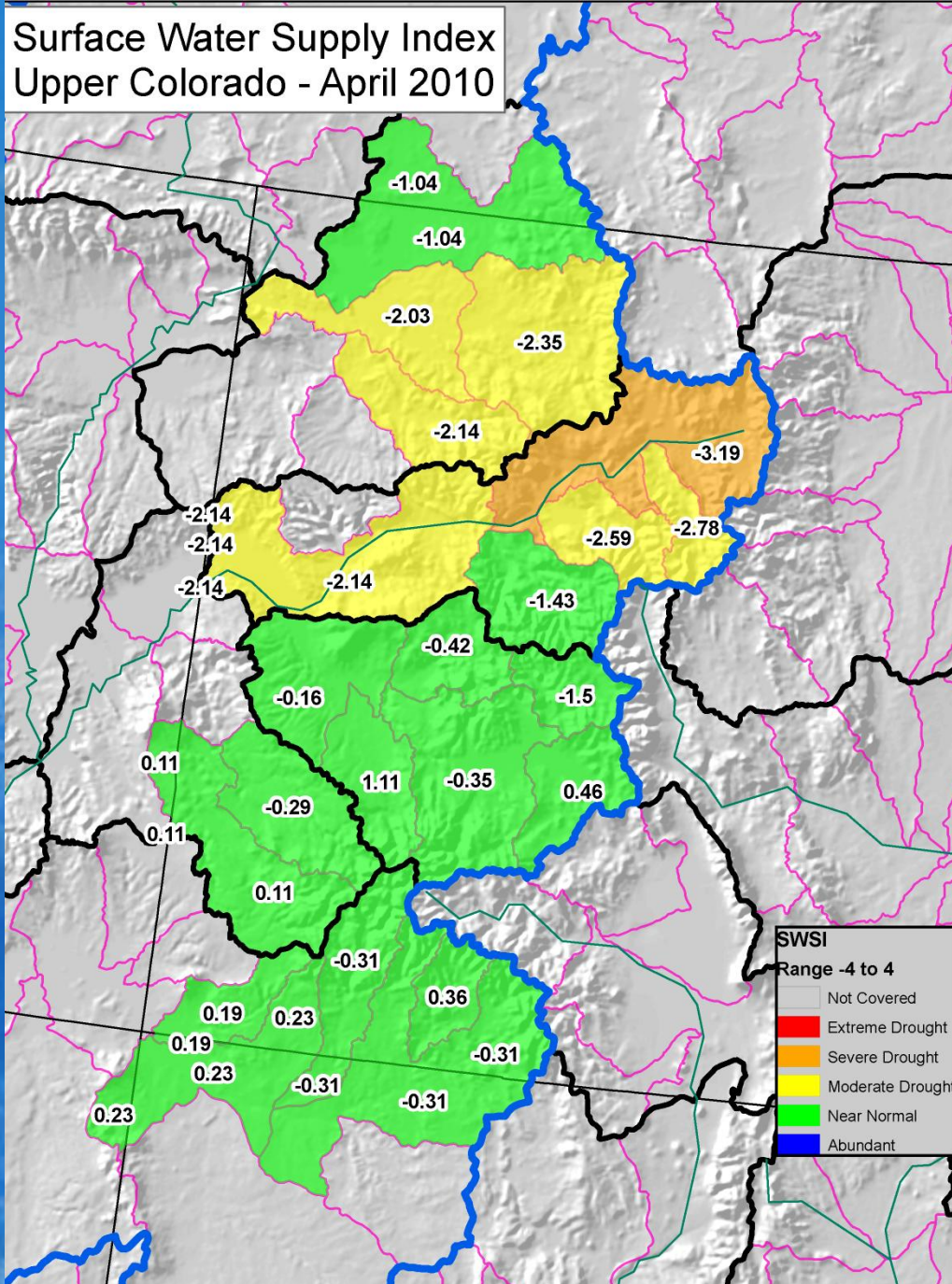


*Provisional Data
Subject to Revision*

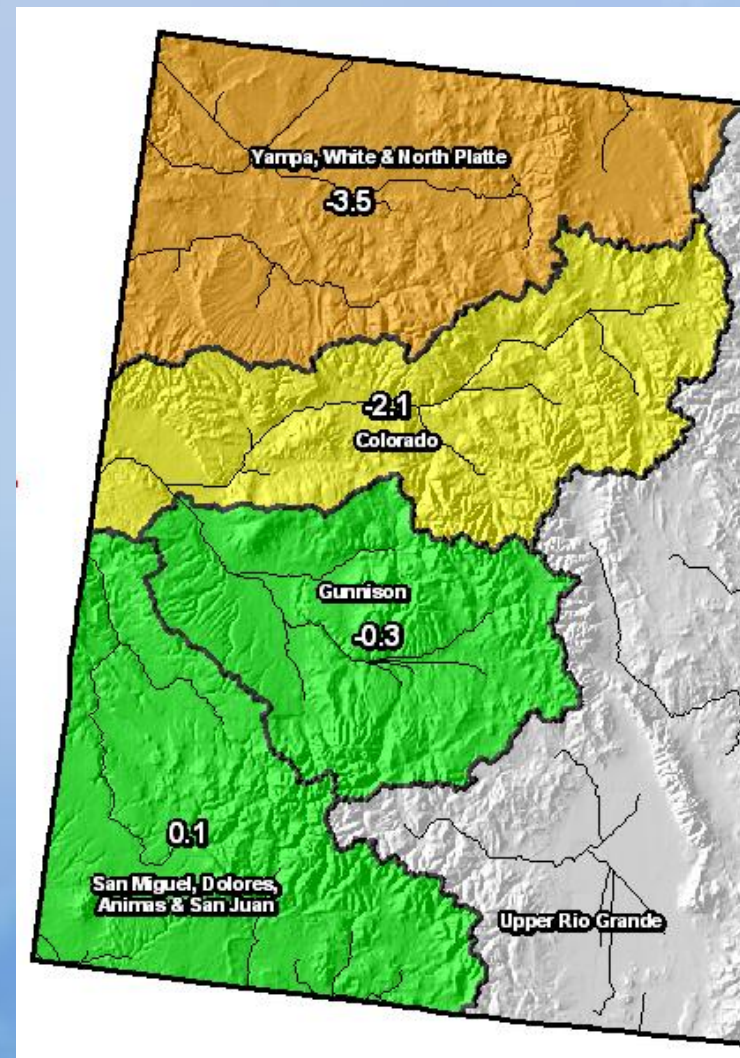


Current as of June 1, 2010

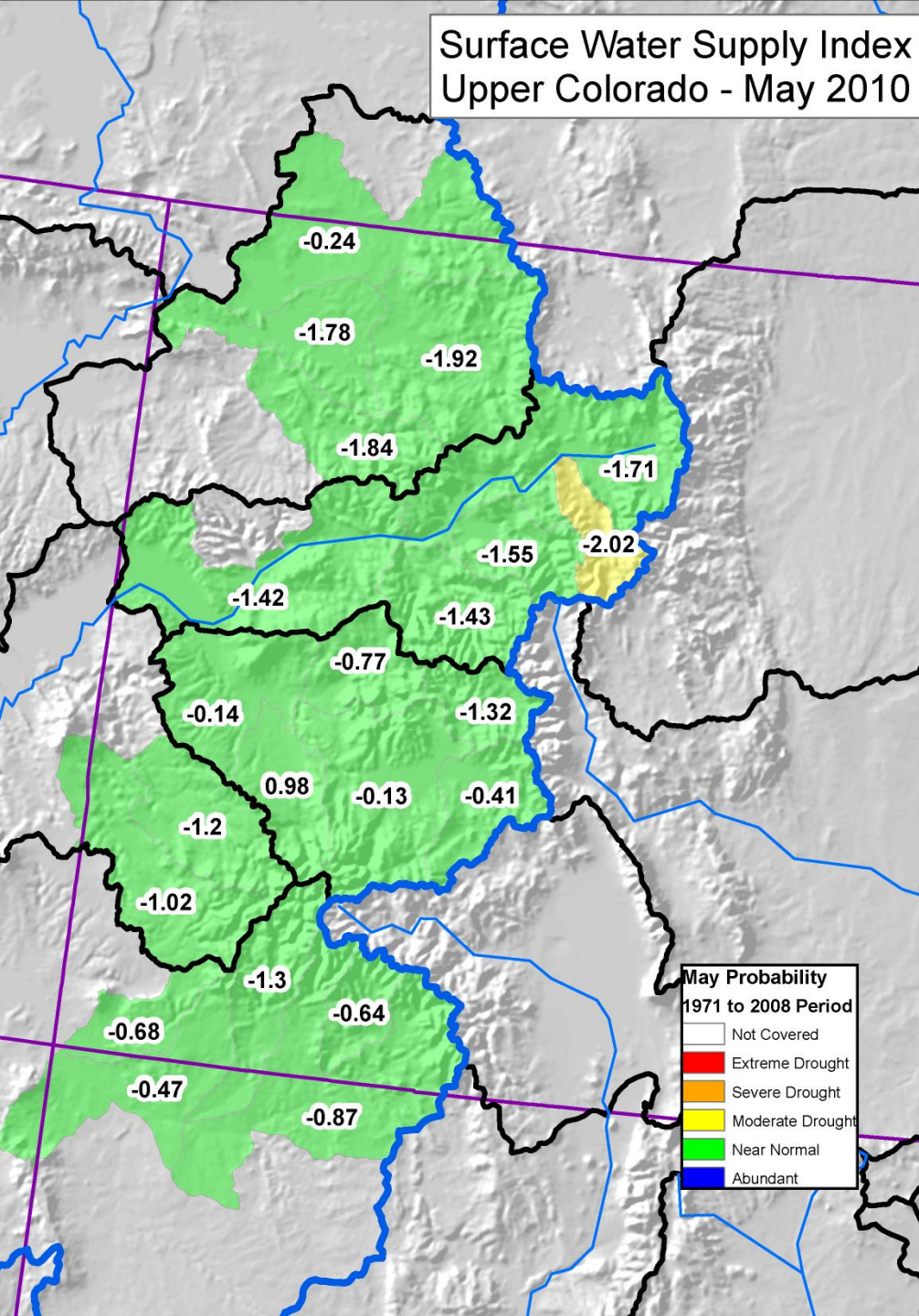
Surface Water Supply Index
Upper Colorado - April 2010



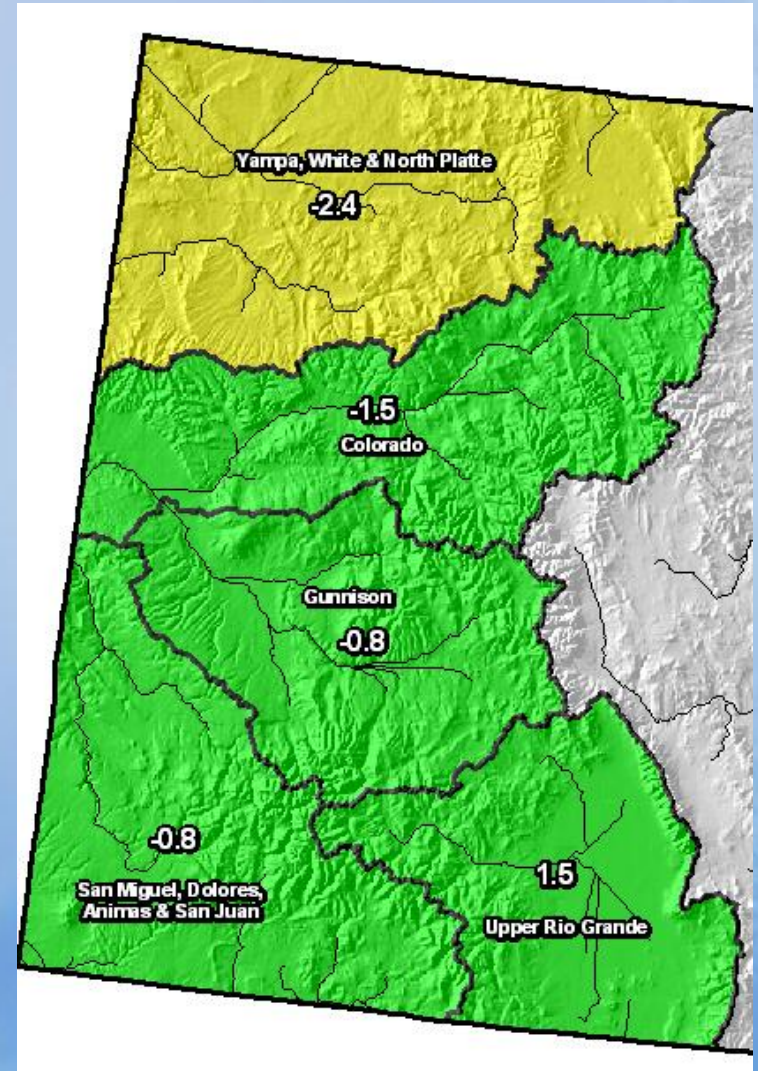
Current Colorado SWSI
April 2010



Surface Water Supply Index
Upper Colorado - May 2010



Current Colorado SWSI
May 2010



Surface Water Supply Index Upper Colorado - June 2010

