Today’s Agenda

- Assessment of current water conditions
- Precipitation Forecast
- Recommendations for Drought Monitor
Water Year 2010 Precipitation as Percentage of Normal
Oct 2009 - Mar 2010

Produced by the Colorado Climate Center utilizing Snotel, NWS, CoCoRaHS and CoAgMet® Preliminary Precipitation Data
Analysis: Inverse Distance Weighting
*Summer only
Colorado 7 Day Precipitation (in) 19 - 25 April 2010

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

Basin Snowpack: 55%
Duchesne River Basin

Basin snowpack: 66%
Upper Colorado above Kremmling
Colorado River above Kremmling

Basin Snowpack: 73%
Lake Irene and Phantom Valley
Lake Irene and Phantom Valley

73% of Average

66% of Average

Snow Water Equivalent (in)

Date

1-Oct 1-Nov 1-Dec 1-Jan 1-Feb 1-Mar 1-Apr 1-May 1-Jun 1-Jul 1-Aug 1-Sep

Lake Irene (10,700 ft)

Phantom Valley (9,030 ft)
San Juan Basin
Basin Snowpack: 81%
Snotel WYTD
Precipitation as Percentage of Average

Upper Colorado 84% of Average Overall
1 Week Change in Snotel WYTD Precipitation Percent of Average
Western Snotel Percentiles 20 Apr 2010

Water Year (Oct 1) to Date Precipitation Ranking Percentile
- X wettest 5%
- ▲ 91% - 95%
- ▲ 81% - 90%
- ▲ 71% - 80%
- ▲ 51% - 70%
- ▼ 31% - 50%
- ▼ 21% - 30%
- ▼ 11% - 20%
- ▼ 6% - 10%
- + driest 5%

Provisional Data Subject to Revision

http://www.wcc.nrcs.usda.gov/gis/precip.html
Streamflow Update

Michael E. Lewis - USGS
Upper Colorado Basin
7-day average streamflow (all gages) compared to historical streamflow for the day of the year
Upper Colorado Basin 7-day average streamflow (HCDN gages only) compared to historical streamflow for the day of the year

<table>
<thead>
<tr>
<th>Explanation - Percentile classes</th>
<th>Low</th>
<th>10-24</th>
<th>25-75</th>
<th>76-90</th>
<th>&gt;90</th>
<th>High</th>
<th>Not-ranked</th>
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<td>Much below normal</td>
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<td>Much above normal</td>
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Time series plot of real-time streamflow compared to historical streamflow for the day of the year
Upper Colorado Basin
Below normal 7-day average streamflow compared to historical conditions for the day of the year
April 24
Percentage of Streamgages per Percentile Class
7-day Average Streamflow
Reservoir Update
Water Demand
Temperature Departure from Normal
HPC 5 Day Precip Through 12Z Sun
GFS Precip Through 12Z Tue, 5/4
ECMWF Precip Through 12Z Tue, 5/4
CPC 6-10 Day Outlook
CPC 8-14 Day Outlook
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://drought.unl.edu/dm
INFO

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NIDIS - UPPER COLORADO BASIN PILOT PROJECT

For more information
Summary

Another significant storm system brought beneficial moisture to much of the Upper Colorado River basin and adjacent areas this past week -- especially Wednesday evening through Saturday morning. The heaviest precipitation fell east of the Continental Divide in Colorado with widespread 1.50 - 3.00" storm totals and locally more south of Denver. But the headwaters of the Colorado River also received 1.0 - 2.5" totals for the week with generally lesser amounts at lower elevations and in Wyoming and Utah. Mountain snow melt was proceeding full tilt last week, but with colder, cloudy and wet weather the melt rates slowed substantially, and above 10,000 feet snowpack continued to build. The recent moisture boosted the water-year-to-date precipitation percent of averages anywhere from 2% to over 10% from last week in the tri-state area. The Green River remains by far the driest portion of the upper Colorado basin. Seven-day stream flow volumes exceeded the average for this time of year. Only 17% of the gages across the region recorded below normal flows (less than the 25th percentile). The percentage of gages with normal or above normal 7-day average streamflows are looking much less like the drought years of 2002-2003, and matching up more with recent previous years. Soil moisture conditions over the western mountains and into Wyoming, and also along the eastern plains, are much improved over the last week, and reservoir levels continue to rise. The recent moisture east of the mountains translates to relatively low demand for early growing season irrigation water and thus putting relative low stress on reservoir supplies which remain near or above average for this time of year.

Weather forecasts show another storm system moving in late Wednesday after a warm and windy day. This system will likely bring good amounts of precipitation to the area through Thursday, but is most likely to favor the northern and central mountains of Colorado. More scattered rain and snow showers along with below average temperatures could linger through Saturday. Next week looks to be drier as high pressure sets in, though there is some disagreement between the models. The GFS has set up a more northwesterly flow over the area, while the ECMWF does not show quite as amplified of a pattern and brings more westerly (and even some southwesterly) flow into the area, thus meaning warmer temperatures. Based on the recent skill of the ECMWF, it is more likely that we will see warmer temperatures next week.

No changes to the US Drought Monitor in Colorado are recommended.

Though there has been some improvement in water supplies in the Colorado and Yampa-White River basins, it is still not enough to make up for the deficit that has accrued since last summer. Therefore D0 over all of NW Colorado and D1 in the immediate headwaters of the mainstem Colorado River remains appropriate. No Wyoming or Utah representatives were on the call, so specific details on those states will be discussed separately. Conditions remain fairly close to long term averages in southern Colorado and Wyoming.