

April 22, 2014 Hydrology Summary

Snow water equivalent (SWE) as of April 22, 2014, for the Upper Green River and Yampa/White River Basins are 139 and 119 percent of median, respectively. Flaming Gorge SWE is similar to 1996 and Deerlodge SWE is similar to 2008 as shown in Figures 1 and 2 below. The Tower snotel site, used a reference point for Yampa snowpack and runoff, currently has 54.1 inches of SWE (111 percent of median). The April midmonth forecast April-July unregulated inflow volume for Flaming Gorge Reservoir is 1,400 kaf and the Yampa River at Deerlodge is 1,550 kaf. On April 22, Tower SNOTEL measured SWE inches of:

- 2008 = 47.5 in; FG 728 kaf unreg inflow; Yampa 1,847 kaf obs spring vol
- 1996 = 58.9 in; FG 1,342 unreg inflow; Yampa 1,685 kaf obs spring vol
- 2006 = 56.5 in; FG 724 unreg inflow; Yampa 1,202 kaf obs spring vol

The difference between the Tower SNOTEL figures and Yampa River observed spring volume differs significantly and needs to be considered when comparing any values this early in the snow accumulation season. Additionally, the unregulated inflow volumes for Flaming Gorge Reservoir were significantly lower than the current April midmonth forecast of 1,400 kaf. Operations for Flaming Gorge Dam and Reservoir will include considerations for dam safety and downstream flooding.

Figure 3 illustrates the Yampa River at Deerlodge Park SWE as of April 22, 2014 and compares it against water years 1996, 2006, and 2008.

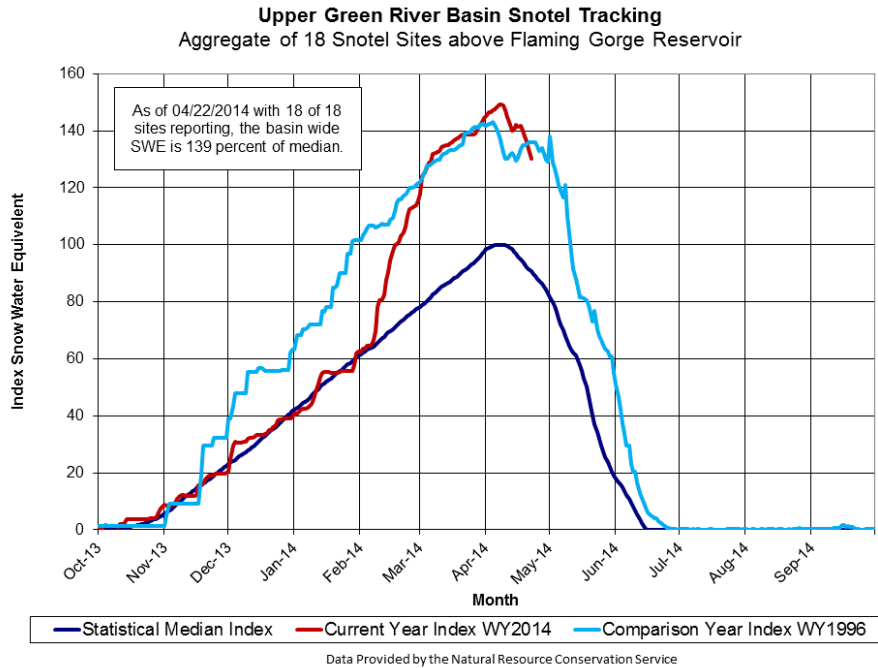


FIGURE 1—Upper Green River Basin Snotel Tracking. 1981-2010 percent of median compared against 2014 YTD Snow Water Equivalent (SWE) and 1996 percent of average SWE

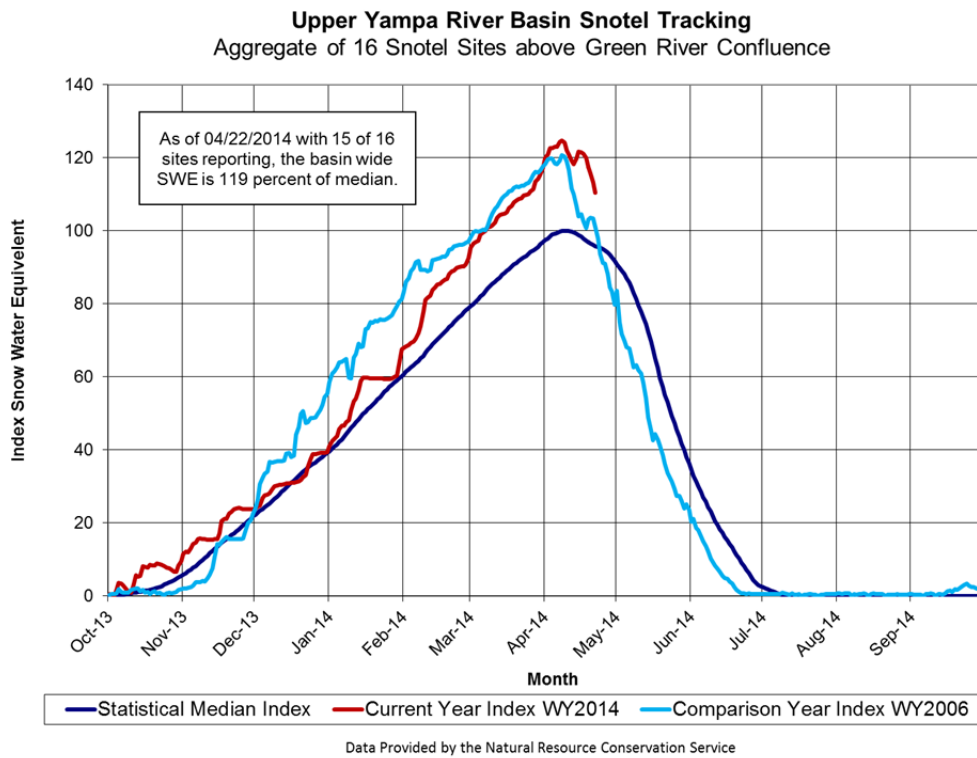


FIGURE 2- Upper Yampa River Basin Snotel Tracking. 1981-2010 percent of median compared against 2014 YTD Snow Water Equivalent (SWE) and 2006 percent of average SWE

Colorado Basin River Forecast Center Yampa abv Deerlogde Group

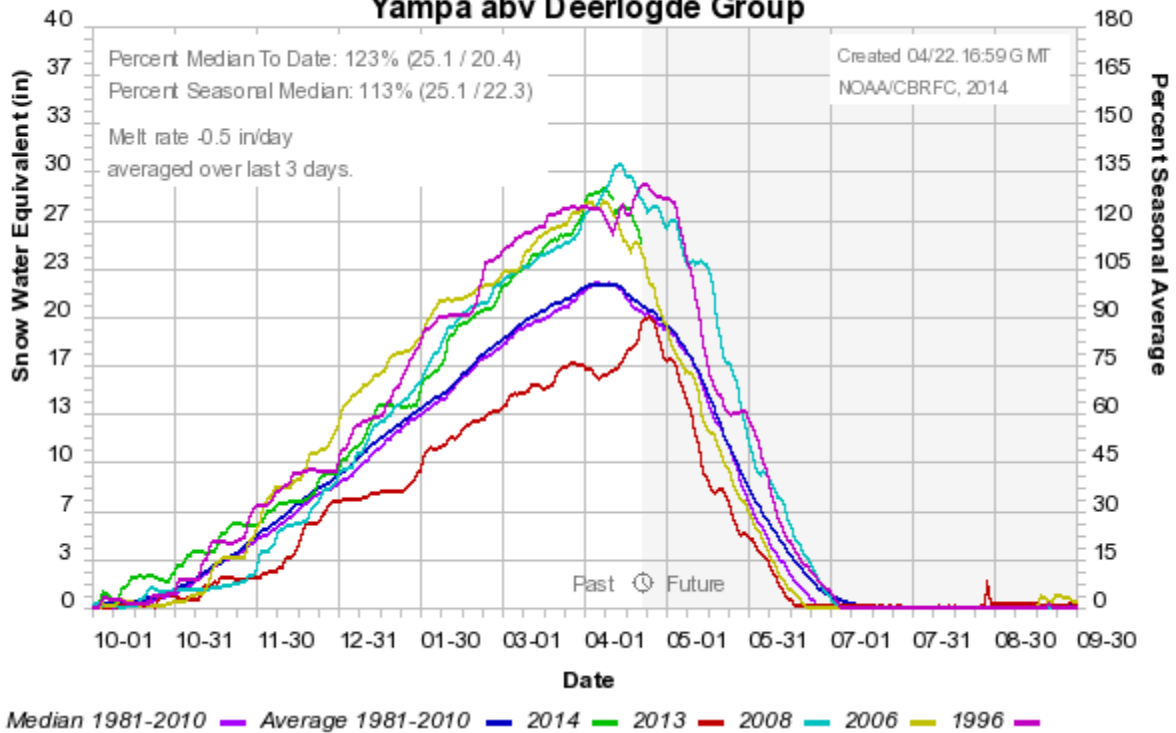


FIGURE 3- Yampa River above Deerlogde SNOTEL Group. 1981-2010 percent of average SWE compared against 2014 YTD, and analog years 1996, 2006, 2008 percent of median SWE

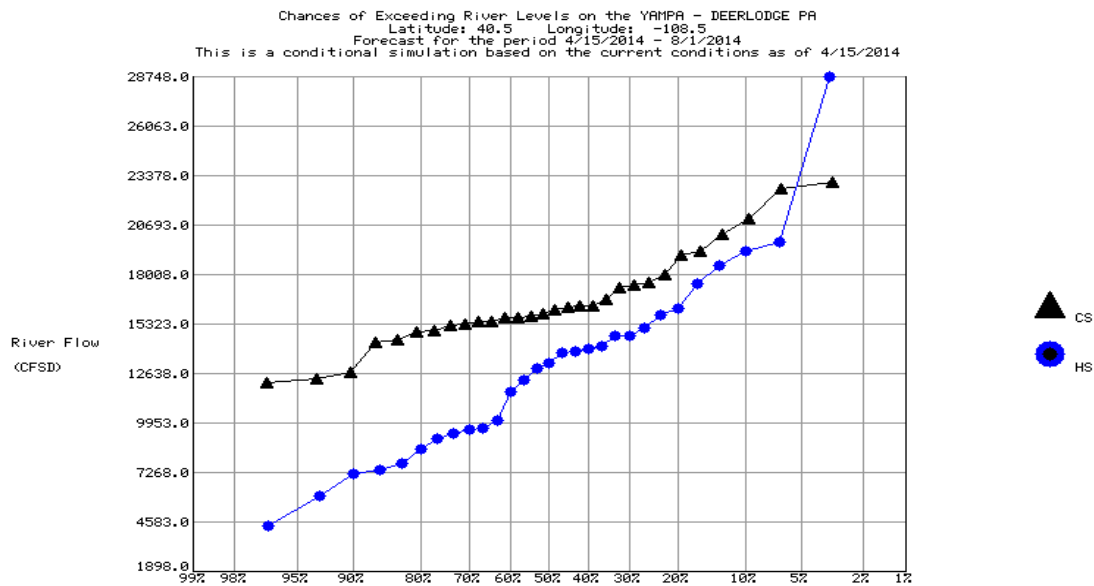


FIGURE 4-Yampa River at Deerlogde Chances of Exceeding River Levels based on Current Conditions as of April 16, 2014

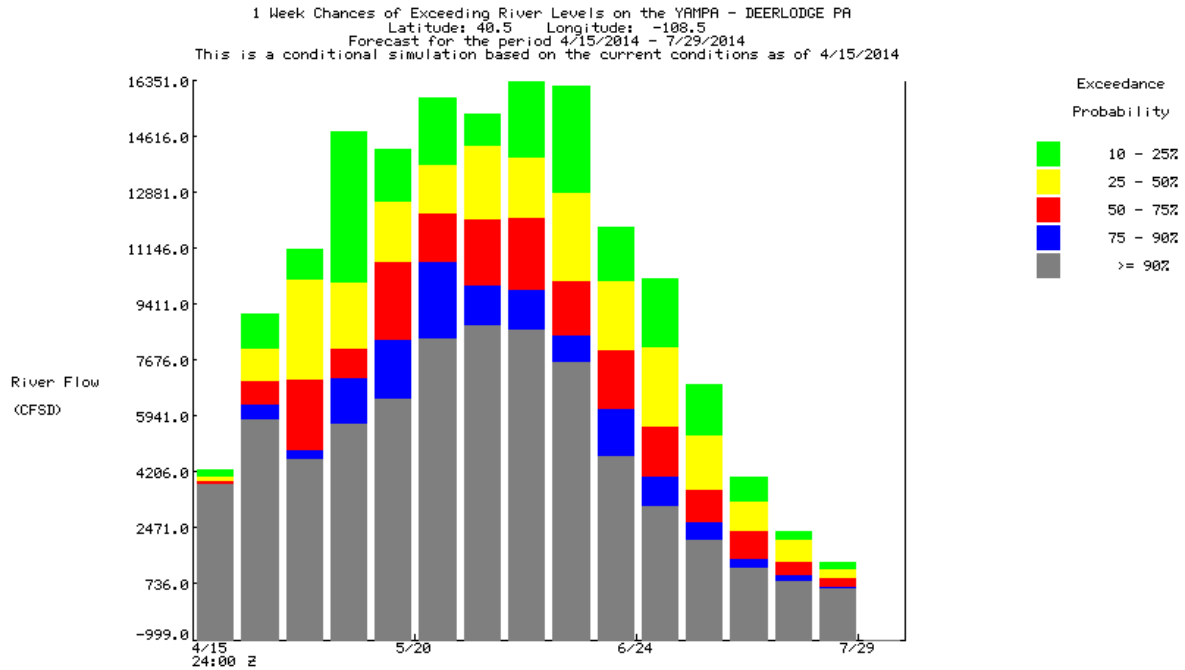


FIGURE 5-Yampa River at Deerlodge One Week Chances of Exceeding River Levels based on Current Conditions as of April 22, 2014

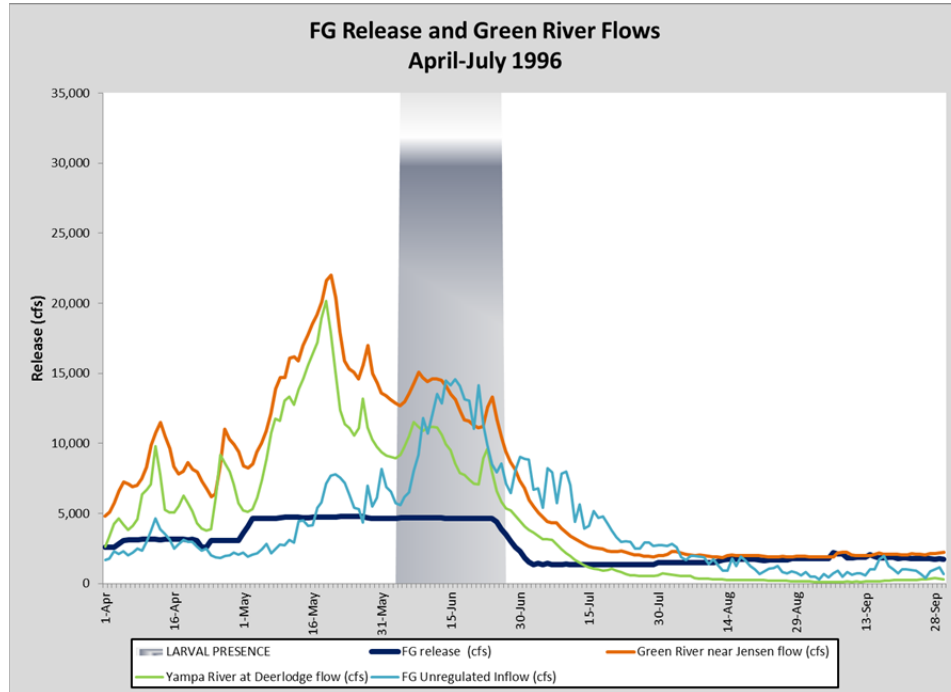


FIGURE 6- Flaming Gorge release and Yampa and Jensen flows for WY1996. Shaded grey area indicates larval presence.

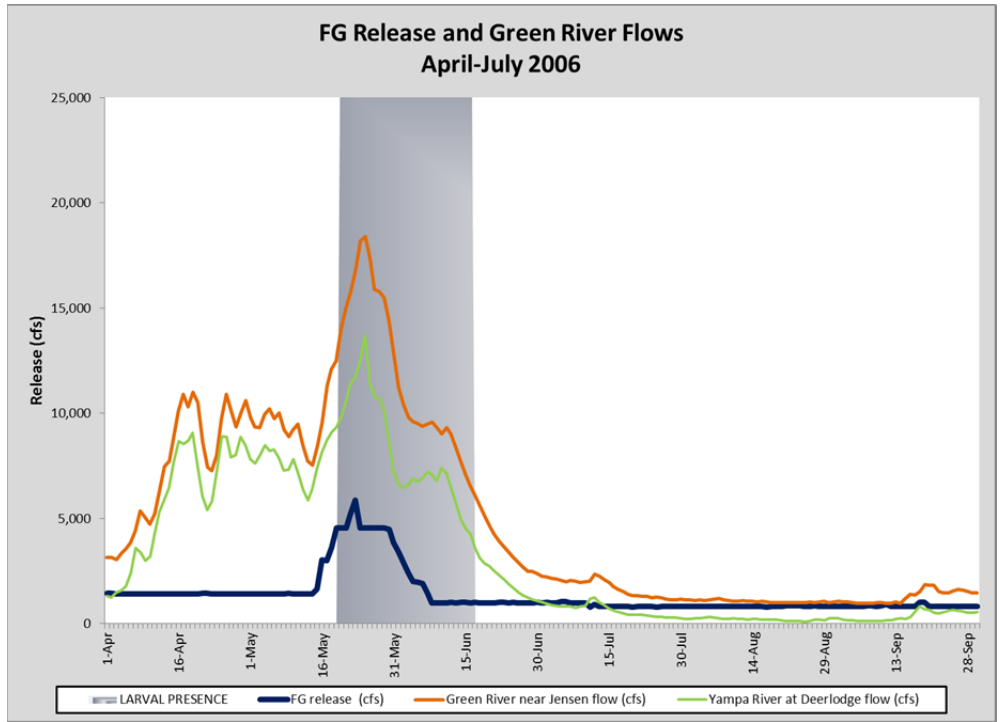


FIGURE 7- Flaming Gorge release and Yampa and Jensen flows for WY2006. Shaded grey area indicates larval presence.

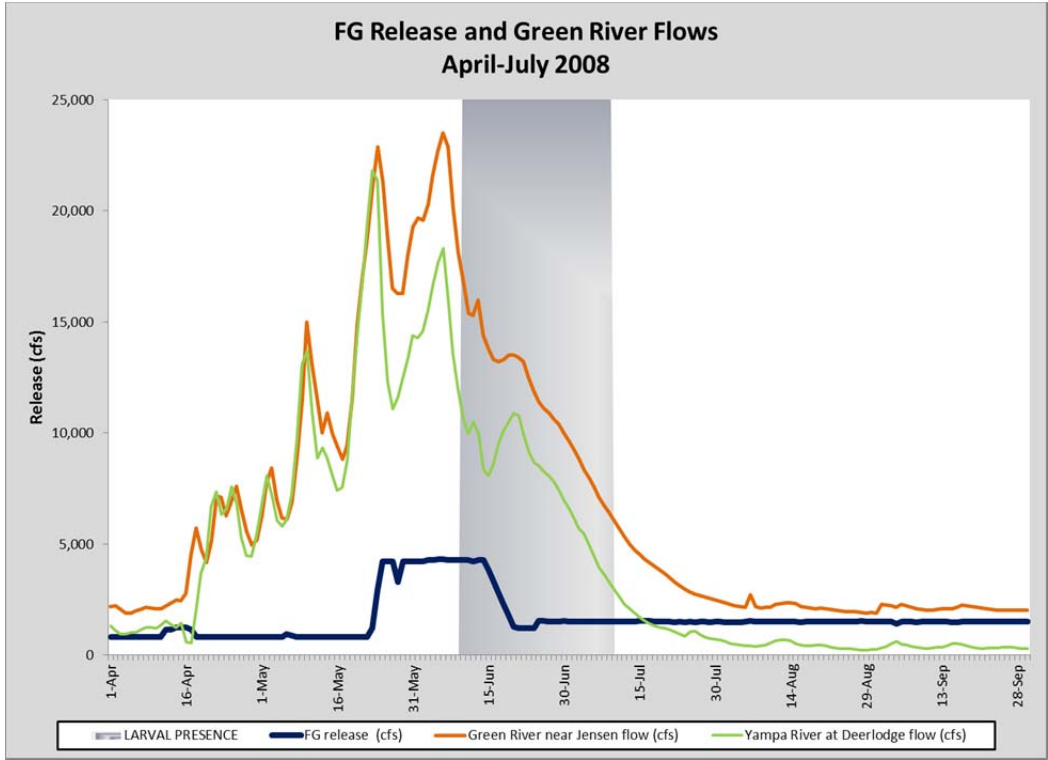


FIGURE 8- Flaming Gorge release and Yampa and Jensen flows for WY2008. Shaded grey area indicates larval presence.