

Lower Snake Temperature Management

July 4, 2007

- General Observations
 - Previous temperature forecast closely tracked observed release temperature at LWG
 - Temperature in Snake River at Lower Granite 19.8 °C above normal for this time of year
 - Temperature of flow weighted inflow $T_{crit} = 18$ °C
 - T_{crit} dropped below 18.5 °C on July 3
 - Heat gain in LWG pool 0.9-1.3 C
 - Travel time in LWG pool 5.5 days

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- Forecasts
 - Weather
 - Very Hot Temperatures predicted for this week at Lewiston ID
 - Thurs Fri Sat Sun Mon Tues Wed
 - Highs 108 102 95 96 97 99 101
 - Lows 66 70

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- Results of CEQUAL-W2 simulation (June 1-July 31 simulation)
 - Base Condition (July 5-8, 9.5 kcfs; July 9-13, 12 kcfs)
 - SR Temps at LWG reach 20°C on July 5
 - Duration of 6 days near 20 °C
 - SR Temps decline after July 10
 - Alternative 1 (July 5-13, 12 kcfs)
 - Cooler temperature July 9-13 compared to base condition
 - Up to 0.5 °C cooler

Lower Granite Pool

