

Lower Snake Temperature Management

July 1, 2007

- General Observations
 - Previous temperature forecast closely tracked observed release temperature at LWG
 - Temperature in Snake River at Lower Granite 19.3 °C above normal for this time of year
 - Temperature of flow weighted inflow $T_{crit} = 19$ °C
 - T_{crit} exceeded 18.5 °C on Friday afternoon
 - Travel time in LWG pool 5 days

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- Forecasts

- Weather

- Very Hot Temperatures predicted for this week at Lewiston ID

	Mon	Tues	Weds	Thurs	Fri	Sat	Sun
– Highs	89	91	99	110	105	95	93
– Lows	60	61	62	68	70	68	61

- Hourly weather data from 2006 for July 9-31

- Flows (STP)

- Clearwater River at Orofino falling from 4.6 to 3.5 kcfs by July 8
 - Snake River at Anatone falling from 22.5 to 20.5 by July 8
 - Dworshak Operations
 - Base Plan 4.3 kcfs through July 4, 12 kcfs July 5-13
 - Alternative 1 4.3 kcfs through July 2, 7.1 kcfs July 3-4, 12 kcfs July 5-13
 - Alternative 2 4.3 kcfs through July 2, 10 kcfs July 3-4, 12 kcfs July 5-13

- Temperatures Boundary Conditions at Anatone and Orofino

- 2006 conditions

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- Results of CEQUAL-W2 simulation (June 1-July 31 simulation)
 - Base Condition (July 2-4, 4.3 kcfs; July 5, 12 kcfs)
 - SR Temps at LWG reach max of 21°C by July 8
 - Duration of 4 days above 20 °C
 - Alternative 1 (July 2, 4.3 kcfs; July 3-4, 7.1 kcfs; July 5, 12 kcfs)
 - SR Temps at LWG reach max of 20.5
 - Duration of 3 days above 20 °C
 - Alternative 2 (July 2, 4.3 kcfs; July 3-4, 10

Lower Granite Pool

