

# Lower Snake Temperature Management

- Current Conditions
  - Snake River
    - Snake River Temperatures at Lower Granite Dam Tailwater 19 °C (66.2 °F) Trending Down (0.2 °C/day)
    - Thermal Stratification upstream Lower Granite Dam
      - Surface Temperature peak daily 25 °C
      - Bottom Temperature 17 °C
    - Snake River at Anatone 15-20 kcfs @ 22-23 °C
      - Hells Canyon Dam returned to peaking operations (9-16kcfs)
  - Clearwater River
    - Capacity Dworshak Operations (10.1 kcfs)
      - Release Temperatures 7.5 °C
        - » Trending up slowly
      - Dworshak Pool Elevation 1550
      - Two unit operation required to achieve 1535 on Aug. 31
      - Clearwater River at Orofino 1.3 kcfs @ (19-24 °C)

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- Flows and Temperatures were simulated in the Snake River and Clearwater River Basins for the Month of August 2006.
  - Snake RM 107-167
  - Clearwater RM 0-42
- Meteorologic Conditions
  - NOAA 7 Day Forecast Aug 15-22
  - Weather data 2005 Aug 23-31 at Silcott Island/Dent Acres
- Boundary Conditions
  - Flows (STP)
  - Temperatures (2005 observed)
- Dworshak Operations
  - Case 1 Aug 16-31 @ 7.5 kcfs

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- Results
  - Forecast based on two unit operation at Dworshak
  - Decreasing river temperatures forecasted over the next several days
    - SR Temps at LWG falling to 18.5 °C
    - Cooler weather conditions
    - Lower HCD flows late last week
  - Return to temperature approaching 20 °C in 8-9 days
    - Could be higher if HCD flows remain at 12.5 kcfs
  - Gradual warming of Dworshak Dam releases
    - 8.5 °C by end of August

### Lower Granite Pool

