

Comments on Draft Scientific Basis Report

Lower American River Issues

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Lower American River

- Wild & Scenic
- 23 miles long
- Confluence with Sacramento River
- Home to over 40 fish species including steelhead and fall-run
- Runs through Am. River Parkway

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- Water Forum Agreement
- Ongoing habitat improvements
- Work to improve Temperature Control Device
- Ongoing scientific studies
- Adaptive management
- Flow Standard in 2006
- Refinements to 2006 Flow Standard

Functional

Flows



American River Flow Standard Refinements

- Promising
 - Storage requirement: for temperature
 - Pulse flow
 - Updates of hydrologic indices and min. flows
- Unsuccessful
 - Unconstrained temperature optimization
 - High spring flows (similar to percent of unimpaired flow approach)



Comparison of Approaches

Simulated Annual January-June American River Flow Volume at its Mouth (1922-2003)







WATER F O R U M

Comparison of Approaches

Simulated Daily American River at Watt Avenue Bridge Water Temperatures for July through September (1922-2003)







Current Am. River Watershed Contribution to the Delta

January-June Unimpaired American River Flow





Conclusions Regarding American River Flow Standards

- Current Am. River Watershed Contribution to the Delta under corrected flows:
 - 40 to 140 % of unimpaired flow (65% median)
 (Jan thru June percent measured at Freeport)
- Water Forum approach: functional flows
 - Significant improvements to water temperatures (especially for juvenile steelhead)
 - Substantially better than high spring flow appraoch
 - Includes pulse flow and storage requirement
 - Supported by broad stakeholder coalition
 - Preferable to "percent of unimpaired flow" approach