

2007 Columbia River Basin Water Supply Inventory Report

Presented by

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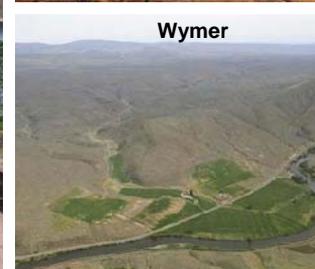
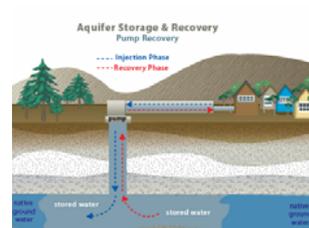
Washington State Department of Ecology



2007 Legislative Report

2007 Water Supply Projects Inventory

- 6,138 projects
- Approx. 7.3 million acre-feet water supply
 - 6.3 million acre-feet water storage
 - 1.0 million acre-feet water conservation
 - ? acre-feet acquisition
- Total estimated cost of \$12 billion
- Average cost range of \$200 - \$9,900 per acre-foot for capital projects
 - \$1,700 to \$9,900 / acre-foot storage
 - \$200 to \$1,200 / acre-foot conservation
- Which projects benefit instream flows?
- Which allow new permits to be issued?
- Which do both?

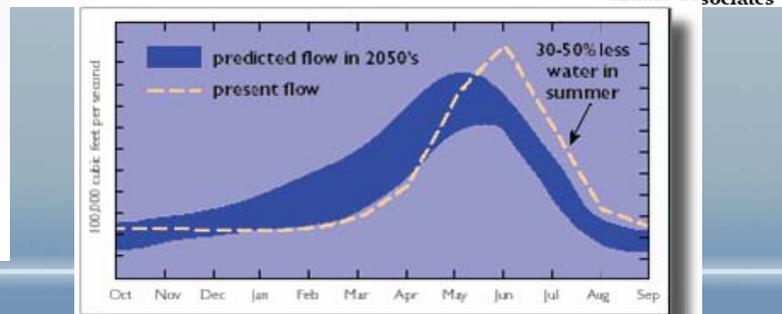
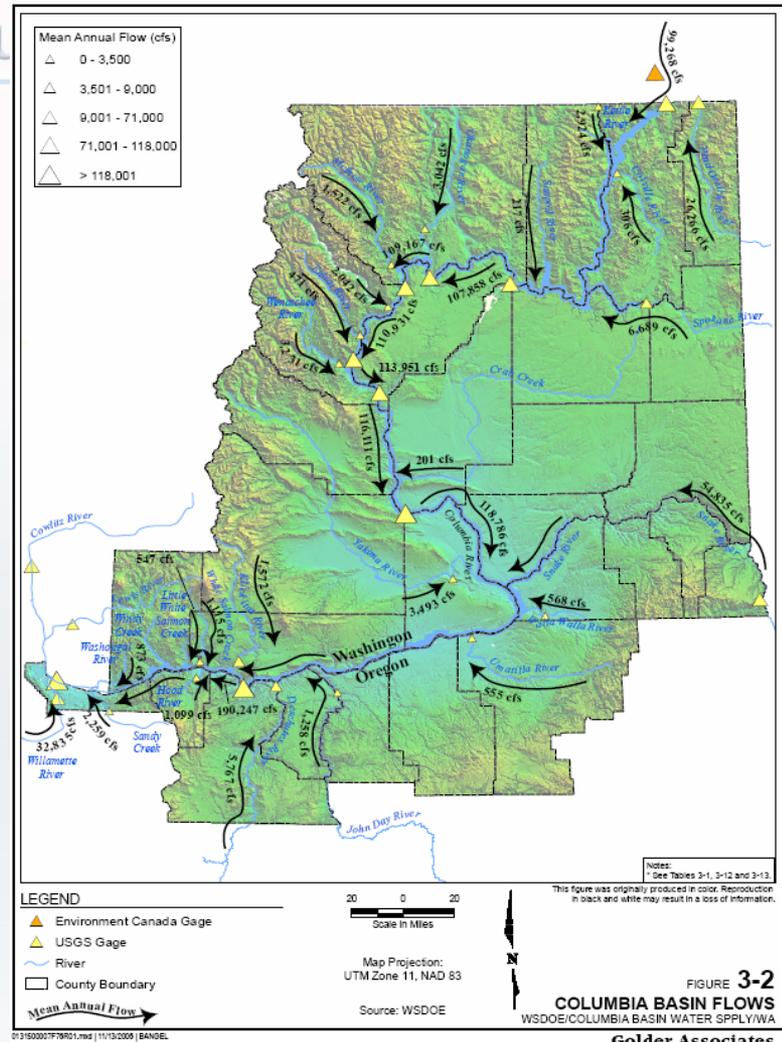


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2011 Water Supply and Demand Forecast

Ecology plans to:

- Study climate change (report due in 2009).
- Study emerging crop markets and agricultural demand (2009).
- Work with our fish partners to better understand how to use water supplies to meet instream demands (Lake Roosevelt SEIS, 2009).
- Work with DOH to better understand municipal demand and opportunities for conservation (2008).
- Work with Columbia River dam operators to better understand how storage affects power generation (2008-2009).
- Work with WDFW to update the priority stream reaches (2009).
- Implement a Columbia River Drought Insurance Program (2008).
- Recommend specific construction projects for funding (2008). Measure specific fish and out-of-stream benefits that accrue from conservation and storage projects. Provide that data on our webmap.



Source: Climate Impacts Group, University of Washington, www.cses.washington.edu/clig

Grant Funding Program

Ecology received 41 pre-applications; eight of the pre-applications listed more than one project type. In total, the pre-applications produced 16 Conservation, 13 Storage, 19 Feasibility Studies, and one Beaver Dam Study project. Ecology is currently working to process the pre-applications.

Applicant	WRIA	Project Type
Barker Ranch Ltd.	37	Horn Rapids Canal Piping
Beehive Irrigation District	40A	Beehive Reservoir Inflow Repair/ Improvement 12"
Boise Cascade	32	Cooling Tower
Boise Cascade	32	ASR
City of Yakima	37	Municipal Pipe Replacement
City of Yakima	37	ASR Project
Confederated Tribes of the Colville Reservation	50	Goose Lake and 9 Mile Flat Colvilles Feasibility
East Columbia Basin Irrigation District	41	Greene Pointe Farms
Foster Creek Conservation District	44	ASR
Foster Creek Conservation District	44	Surface Storage Feasibility Studies
Franklin/ Grant Conservation District	36	Irrigation Water Management
Franklin/ Grant Conservation District	36	Conversion of Irrigation Systems (Franklin, Grant and Adams Counties)

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Applicant	WRIA	Project Type
Franklin/ Grant Conservation District	36	Full Season Water Bank (Franklin, Grant and Adams Counties)
Franklin/ Grant Conservation District	36	Partial Season Water Bank (Franklin, Grant and Adams Counties)
Franklin/ Grant Conservation District	36	Orchard Sprinkler Conversions (Franklin, Grant and Adams Counties)
Franklin/ Grant Conservation District	36	Irrigation System Efficiency Audits (Franklin, Grant and Adams Counties)
Franklin/ Grant Conservation District	36	Conversion of Center Pivots from High to Low Pressure (Franklin, Grant and Adams Counties)
Franklin/ Grant Conservation District	36	Irrigation System Efficiency Audits (Franklin, Grant and Adams Counties)
Kittitas Conservation Trust LCU Inc.	39	Swauk Creek Surface Water Storage
Kittitas County Conservation District	39	Reed Ditch Pipeline
Kittitas County Conservation District	39	Menastash Creek Pipeline
Klickitat County Conservation District	30	Feasibility Study for Surface Storage in Dry Creek
Klickitat County Conservation District	31	Feasibility Study for Surface Storage and Conveyance Horse Heaven Hills
Klickitat County Conservation District	31	ASR Feasibility Study and Pilot Testing, City of White Salmon
Lake Cortez Water Users Association	40	Lake Cortez Water Quality/ Reliability Improvement Project
Lincoln County Conservation District	43	Lincoln County Passive Re-hydration Project
Lockwood and Canaday Irrigation Corp.	40A	Lockwood and Canaday

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Applicant	WRIA	Project Type
Many Waters	32	Little Walla Walla Rivers System Flow Feasibility Study
Naches-Selah Irrigation District	39	NSID Equalization Reservoir & Tibbling Hill Spillway
Naches-Selah Irrigation District	39	NSID Modernization and Improvement Plan
Palouse-Rock Lake Conservation District	34	Rock Lake Water Storage
Peshastin Irrigation District	45	Campbell Creek Reservoir Feasibility Study
Selah-Moxee Irrigation District	37	Conservation Plan
Selah-Moxee Irrigation District	37	Little Moxee Canal Piping
Squilchuck Highline Ditch Association	40A	Conveyance pipe repair. 10"
Stevens PUD	59	Mill Creek Water Storage Project
The Lands Council	57	Beaver Study Habitat
Walla Walla County Watershed Planning Dept	32	Walla Walla Rural Water Supply Program
Walla Walla County Watershed Planning Dept	32	Walla Walla Groundwater Replenishment and Instream Flow Enhancement Program
Washington DFW	43	Upper Lake Creek Wetland Restoration
WSU	34	SRRP Aquifer Recharge

Comments

Comments were received by:

- American Rivers, Washington Environmental Council & Washington Rivers Conservancy
- Center for Water Advocacy
- Columbia River Inter-Tribal Fish Commission
- David Ortman
- Klickitat County
- Merrill Ott, Stevens County Commissioner
- Washington State Dept. of Fish & Wildlife
- Walla Walla County Watershed Planning
- Confederated Tribes and Bands of the Yakama Nation

Response to Comments

Theme of comments:

- Ecology is too focused on new large storage
- The inventory favors instream needs
- The inventory favors out-of-stream needs
- Not enough emphasis on working toward municipal conservation
- Assumption that ASR costs the most
- Concerns about issuing new permits on temporary water
- Concerns about moving water out of the WRIA
- Ecology isn't working close enough with watershed planning
- Demand based comments
- Programmatic Comments (scope of the program)

Next Steps