A Look Back: Origins of the Columbia River Program – Legislation

Office of Columbia River Results 2006–Present
Ecology directed to aggressively pursue development of new water supplies for both instream and out-of-stream uses

• Significant investment in new storage and conservation
  ◦ Capital: authorization for bonds of up to $200 million

• 2/3 of funds for study & construction of new storage & pump exchanges
  ◦ 1/3 of new storage for improving streamflows to benefit fish
  ◦ 2/3 of new storage for new out-of-stream uses

• 1/3 of funds for all other water supply projects

• Legislative reporting on water supply and demand forecasts
WATER SUPPLY DEVELOPMENT ACCOUNT USES

- Assess, plan, and develop new storage
- Improve or alter existing storage facilities
- Implement conservation projects
- Any other actions to provide access to new water supplies (e.g., acquisitions, leases, marketing)
• Alternatives to groundwater for agricultural users in the Odessa subarea aquifer

• Sources of water supply for pending water right applications

• New uninterruptible supply of water for interruptible water right holders

• New municipal, domestic, industrial and irrigation water needs in basin

• Water for instream purposes
• Problem solving focus

• Seeking balance
  ◦ In water allocation
  ◦ Between mainstem and tributaries in program focus
  ◦ In geographic distribution of projects
  ◦ In types of projects
  ◦ Between water quantity and overall aquatic resources
Lake Roosevelt Incremental Storage Releases

Operational change of 1 foot annually and 1.8 feet during drought

The Lake Roosevelt storage release would divert up to 82.5K ac-ft of water for:

- Instream Flows:
  - low stream flows
  - ESA listed
  - sturgeon
  - lamprey
  - bull trout
  - cutthroat trout
  - chinook salmon
  - chum salmon
  - coho salmon
  - sockeye salmon
  - steelhead salmon

- 27.5K (33%) Instream Flow
- 30K (36%) Odessa
- 25K (30%) Municipal Needs

Municipal Needs:
- population growth
- increasing industrial demands

In a drought year an additional 50K ac-ft of water for:

- 17K (34%) Instream flow during drought years
- 33K (66%) Interruptible water right holders
SULLIVAN LAKE REOPERATION

• Converted former Pend Oreille County PUD hydropower facility to water supply operation

• Creates 14,000 ac-ft of additional supply in NE counties

• Schedule: 2013-2015 releases, permits started in 2014
RESULTS OF STATE INFRASTRUCTURE INVESTMENT
ACRE-FEET OUT-OF-STREAM

Developed for Out-of-Stream Use
293,061 acre-feet

In Progress
230,511 ac-ft
(214,000 ac-ft from Yakima Funding)
RESULTS OF STATE INFRASTRUCTURE INVESTMENT
ACRE-FEET INSTREAM

Developed for Instream Use
82,754 acre-feet

In Progress
11,278 ac-ft
(3000 ac-ft from Yakima Funding)
RESULTS OF STATE INFRASTRUCTURE INVESTMENT
COST PER ACRE-FOOT FOR DEVELOPED WATER SUPPLY

- 30 Completed Projects
- 7 Terminated Projects
- Accomplishing all 5 mandates
- Issued 128 permit decisions
- 2 Supply and Demand Forecasts

New Water Supply
375,815 acre-feet

Developed at a cost of
$506/ac-ft

$190 million
at a price of
<table>
<thead>
<tr>
<th>Demand Type</th>
<th>Estimated Volume (ac–ft)</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2030 Irrigation Demand (new irrigation, Odessa replacement, Yakima Basin supply, and Columbia River interruptibles)</td>
<td>800,000 - 1.1 Million</td>
<td>2011 Supply and Demand Forecast, Odessa EIS, Yakima EIS, and Ecology 2001 Drought Database</td>
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<tr>
<td>2030 New Municipal Demand (including municipally-supplied commercial and self-supplied domestic)</td>
<td>108,500</td>
<td>2011 Supply and Demand Forecast</td>
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<tr>
<td>Unmet Tributary Instream Flows</td>
<td>500,000</td>
<td>Ecology Data, tributaries with adopted instream flows, 2001 drought year</td>
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<tr>
<td>2030 New Hydropower Demand</td>
<td>0</td>
<td>WSU Surveys and Planning Forecast Review</td>
</tr>
</tbody>
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RESULTS OF STATE INFRASTRUCTURE INVESTMENT
HABITAT IMPROVEMENT PROJECTS

33 Habitat Improvement Projects
Over 80 miles of river improved
INTEGRATED WATER RESOURCE MANAGEMENT PLANNING PROCESSES
Office of Columbia River
Water Supply Development - 2014

Developed

375,815 Acre-Feet

- Barker Ranch: 6,436 ac-ft
- Columbia Basin ID Piping: 26,000 ac-ft
- Donations: 13,060 ac-ft
- KID/Red Mountain: 11,005 ac-ft
- Lake Roosevelt: 132,500 ac-ft
- Lower Wenatchee Piping: 1,493
- Manastash: 1,300 ac-ft
- Odessa Subarea: 164,000 ac-ft
- Peshastin ID Piping: 360 ac-ft
- Potholes Supplemental Feed Route (conveyance)
- Pine Creek Acquisition: 900 ac-ft
- Sullivan Lake: 14,000 ac-ft
- Port of Walla Walla Leases: 4,761 ac-ft
- Weber Siphon (conveyance)


330,132+ Acre-Feet

- 508.14 Rule Change: TBD
- Cle Elum Pool Raise: 14,000 ac-ft
- Columbia Basin ID Piping: 5000 ac-ft
- Conservation Commission Irrigation Efficiency: TBD
- Kachess Drought Relief Pumping Plant: 200,000 ac-ft
- East Low Canal Widening: (conveyance)
- Kennewick ASR: 318+ ac-ft
- Methow Projects: 2854 ac-ft
- Pasco Municipal Supply Improvements: 5,000 ac-ft
- SVID: 7,815 ac-ft
- White Salmon ASR: 145 ac-ft
- Yakima Basin Enhanced Conservation: 85,000 ac-ft
- Yakima City ASR: 10,000 ac-ft

Long-Term Development (2017+)

- Regional Aquifer Storage and Recover: TBD
- Conservation Commission Retiming: TBD
- Goose Lake & Nine Mile Flat Storage: TBD
- Horse Heaven Hills: 105,000 ac-ft
- Lincoln CD Passive Rehydration: TBD
- Mill Creek Storage: 2,000 to 11,000 ac-ft
- Peshastin Pump Exchange: TBD
- Spokane-Rathdrum ASR: 105,000 ac-ft
- Walla Walla Flow Enhancement: 30,000 ac-ft
- Yakima Basin Integrated Plan Projects: 226,000 ac-ft

Meet Forecasted Demand
QUESTIONS?