Columbia River Basin Water Management Program

Technical Advisory Group

2007-2008 Competitive Grant Funding Cycle

Bill Eller, CR-TAG Coordinator
June 25, 2008
Overview

- Timeline for Grant Funding.
- Draft Funding List and Map.
- Individual Project Summaries.
Where Have We Been?

2007-2008 Competitive Grant Funding Cycle
CR-TAG Members (9 / 3)

- Bruce Beauchene, City of Kennewick
- Jon Culp, Washington State Conservation Commission
- David Cummings, Department of Ecology
- Daniel R. Haller, Department of Ecology
- Steve Martin, Snake River Salmon Recovery Board
- Peggy Miller, Department of Fish and Wildlife
- Mark Nielson, Franklin Conservation District
- Onni Perala, Roza Irrigation District
- Tom Ring, Yakama Nation

CR-TAG Alternate Members:
- Steven Hays, Chelan PUD
- Paul LaRiviere, Department of Fish and Wildlife
- Mike Tobin, North Yakima Conservation District
Held its first meeting on August 30, 2007. Since that first meeting, the members adopted a charter and attended numerous trainings and presentations.

On April 3, 2008 they received their first application to score.

On May 22, 2008, they completed scoring all 17 applications and made recommendations to the CRIT on the grant process.

In 50 days, the volunteer members:
- reviewed all 17 grant applications (over 700 pages of submitted materials),
- made 8 field visits, and
- scored all 17 applications.
The CR-TAG scored applications based on five categories (each category worth 10 points (50 points total)): 

1. Project Costs. 
3. Project Support. 
4. Fish and Water Quality Benefits. 

Each category had a number of subcategories.
CR-TAG Scoring Process

The raw score (0-50) was converted into a weighted score (0-100) based on the following criteria / table:

<table>
<thead>
<tr>
<th>Categories</th>
<th>Maximum Possible Unweighted Score</th>
<th>Total Unweighted Score</th>
<th>Weighting Factor</th>
<th>Maximum Possible Weighted Score</th>
<th>Weighted Score</th>
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<tbody>
<tr>
<td>1. Project Costs</td>
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<td>20</td>
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<tr>
<td>2. Net Water Savings</td>
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<td>3.3</td>
<td>33</td>
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<td>3. Project Support</td>
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<td>4. Fish/Water Quality Benefits</td>
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<td>5. Long Term Resources</td>
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<td>1</td>
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<td><strong>TOTAL SCORE FOR ALL CATEGORIES</strong></td>
<td><strong>50</strong></td>
<td><strong>10</strong></td>
<td></td>
<td><strong>100</strong></td>
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</tbody>
</table>

The goals were to:
- Analyze the technical merit of each project,
- Bring in as wide a range of projects as possible,
- Gather information about the projects, and
- Allow for a fair and unbiased ranking of the projects.
The Grant Process

Old Timeline

Pre-Applications Submitted
Oct-Nov 2007

Pre-Applications Review
Dec 2007-Feb 2008

Applications Submitted (by Invitation)
March 2008

Technical Advisory Group (TAG) Review
Apr-May 2008

Ecology Review & Selection
June-Dec 2008

Grant Contract Negotiations
June 2009

Grants Awarded
July 2009

New Timeline

Pre-Applications Submitted
Oct-Nov 2007

Pre-Applications Review
Dec 2007-Feb 2008

Applications Submitted (by Invitation)
March 2008

Technical Advisory Group (TAG) Review
Apr-May 2008

Ecology Review & Selection
June-Aug 2008

Grant Contract Negotiations
Aug, Sept 2008

2007-2008 Funding Year
Where Are We Going?

2009 Funding Year

Proposed New Timeline:

Note: 2009 Timeline still being finalized
Where Are We Going?

2007-2008 Grant Funding Cycle - Important Dates

- **June 19, 2008**: CRIT decides on a draft funding list.
- **June 25, 2008**: The draft funding list is presented to the PAG.
- **June 25 to July 25, 2008**: Watershed Planning provides input to County Commissioners on the draft funding list.
- **July 25, 2008**: The PAG submits responses to Ecology on the draft funding list.
- **July 25 to August 13, 2008**: Ecology staff finalize funding list with Director Manning.
- **August 13, 2008**: Final funding list presented to the PAG for discussion.
The CRIT was trying to weigh many factors when it created this proposed funding list:

✓ Project diversity.

✓ Geographic diversity.

✓ Balance between feasibility and construction.

✓ Balance between instream benefit and out-of-stream benefit.

✓ CRIT and Ecology still “learning this first cycle.”
Ecology Seeking PAG Input:

- On entire funding package, not necessarily a project-by-project critique.
- On whether this proposed funding list is the right balance of:
  - Project diversity (which work best?).
  - Geographic diversity.
  - Construction & Feasibility (immediate versus long-term benefit).
  - Instream benefit & out-of-stream benefit.
$200M Columbia River Program

Life of Columbia River Program

- **Acquisition** (e.g., buying rights, Canadian agreements, followed corners, etc.): $67M
  - All other actions designed to provide new instream & out-of-stream uses

- **Conservation & Infrastructure** (e.g., pumps & pipe projects)

- **Aquifer Storage Recovery & Small Storage**

- **$133M** Planning, Feasibility & Development of New Storage
  - Examples:
    - Columbia River off-channel storage
    - Increasing capacity of existing reservoirs
    - Aquifer storage
    - Pump Exchange
    - Negotiations agreements with Canada

Annual Project Review

Ecology Final Project List

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Ecology/Tag Evaluation of Projects

PAG Input

Technical Assessment Group (TAG) Recommendation Cost/Benefit

Ecology Lead Cost/Benefit
### Columbia River Draft Funding List

<table>
<thead>
<tr>
<th>Rank</th>
<th>Applicant</th>
<th>Project Title</th>
<th>Project Type</th>
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<td>The Barker Ranch</td>
<td>Horn Rapids Canal Repair</td>
<td>C</td>
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<td>2</td>
<td>Lincoln County CD</td>
<td>Lincoln County Passive Rehydration</td>
<td>FS</td>
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<td>3</td>
<td>Pothole Creek MA</td>
<td>WRIA 44/90 Surface Water Storage</td>
<td>PS</td>
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<td>4</td>
<td>Stevens PUD</td>
<td>Kell Creek Water Storage Project</td>
<td>FS</td>
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<td>Rock Lake Water Supply &amp; Habitat Enhancement Study</td>
<td>FS</td>
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<td>Kittitas County CD</td>
<td>Manastash Creek Restoration Project</td>
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<td>Boise White Paper, LLC, Walla Walla ASR</td>
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<td>Beaver Population Enhancement &amp; Water Storage</td>
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<td>City of White Salmon</td>
<td>Buck Creek to Grand Ronde Aquifer ASR</td>
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<td>Franklin LD</td>
<td>Irrigation Water Management</td>
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<td>A.J. Ochoa Corporation</td>
<td>Green Point Farms</td>
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<td>16</td>
<td>Squilchuck Highline Assoc</td>
<td>Squilchuck Highline Ditch Replacement</td>
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<td>Confederated Tribes of the Colvilles</td>
<td>Goose Lake &amp; 8 Mile Flat</td>
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<td>Horse Heaven Hill Surface Storage &amp; Conservation</td>
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<td>Spokane Valley - Rathdrum Prarie ASR</td>
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<td>KID Pump Exchange</td>
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<td>23</td>
<td>BOR</td>
<td>Pinto Dam &amp; Upper Crab Creek</td>
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<td>Colville Mitigation Projects</td>
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<td>25</td>
<td>Yakama Nation</td>
<td>Yakama Funding List</td>
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</tbody>
</table>

**Legend:**
- ✔️ Fund
- ✗ Not Fund
- C Conservation
- FS Feasibility Study
- S Storage

**Map:**
- The map shows a detailed view of the Columbia River basin with regions such as Okanogan, Ferry, Stevens, Spokane, and Walla Walla. The map also highlights key project areas and their locations. The legend includes symbols for funding status and project types.
Applicant
Project Title (FS)

**PROJECT PHOTO**

**PROJECT DESCRIPTION:**
The project description was compiled from the materials submitted with or on the grant application supplied by the applicant, but edited for length and content.

**SCORE:** 0-100  **RANK:** 1-17* (25)

**FUNDING REQUEST:** $

**ESTIMATED NWS (Net Water Savings):** AF

**ESTIMATED COST PER ACRE FOOT:** $

**COUNTY:**

**STREAM REACH:**

* 17 projects were scored by the CR-TAG. There are eight more projects under consideration for funding by the CRIT included in this presentation (WSU-ASR, Colville 9 Mile Flat, Klickitat - Horse Heaven, Walla Walla Water Bank, KID Pump Exchange, BOR Projects, Colville FDR Projects, Yakama Projects).

**CRIT Comments**
The Barker Ranch
Horn Rapids Canal Piping

Conversion of the Horn Rapids Canal from an open ditch system to a closed pipe system and conservation of water in the lower Yakima and Columbia Rivers by saving conveyance losses.

Less water will be diverted to the Canal during low flow times resulting in water saved during the months of June through October.

SCORE: 64.2  RANK: 1
FUNDING REQUEST: $5,600,000
EST. NWS: 6,436 AF
EST. COST PER AF: $870
COUNTY: Benton
STREAM REACH: Yakima River below Wannawish/Horn Rapids Dam, approx. RM 18

High score, good fish benefit, permittable water.
This proposal would study the rehydration of the basalt aquifers in Lincoln and Adams County (Odessa sub aquifer) thorough passive infiltration into the basalt aquifers by diversion of water from the Columbia River.

High score, diverse project, good location, potential for new permits, dependant on clear pathway to water right.
A Study of two potential small storage sites:
1. Rock Island Creek (WRIA 44):
   60,000 AF, $204 M, cost/af: $3,397.
2. Foster Coulee (WRIA 50):
   a. 2 Low: 126,000 AF, $223-251 M, cost/af: $1,772-1,994;
   b. 2 High: 96,250 AF, $266-299 M, cost/af: $2,768-3,114;
   c. 2 High, 1 Low: 194,700 AF, $399-449 M, cost/af: $2,051-2,308.

Foster Creek CD
WRIA 44/50 Surface Water Storage (FS)

SCORE: 59  RANK: 3
FUNDING REQUEST: $93,750
EST. NWS: *See below
EST. COST PER AF: *See below
COUNTY: Douglas
STREAM REACH: Foster Coulee and Rock Island Creek

High potential for new permits, close to Columbia Basin Project infrastructure.
A study of instream small surface storage. Dam height would determine acre feet of water stored:

- 100 feet = 2,050 AF
- 150 feet = 5,400 AF
- 200 feet = 10,700 AF
A study of the small storage potential on Rock Lake.

High potential for new permits, good location & cost/AF.

SCORE: 57.8  RANK: 5
FUNDING REQUEST: $124,000
EST. NWS: 110,000 AF
EST. COST PER AF: $1.13
COUNTY: Whitman
STREAM REACH: Rock Lake
Kittitas County CD
Manastash Creek Restoration
Project: Manastash Ditch

Piping the Manastash Water Ditch Association’s earthen unlined ditch from the Kittitas Reclamation District’s South Branch to Hanson Road, approximately 4,440 feet.

SCORE: 56.8 RANK: 6
FUNDING REQUEST: $376,068
EST. NWS: 453.62 AF
EST. COST PER AF: $829
COUNTY: Kittitas
STREAM REACH: Manastash Creek, RM 5.6

High score, good fish benefit.
Boise White Paper LLC  
Wallula Aquifer Storage Project

Installation of an aquifer storage system to provide cold water during the summer which would reduce the overall water used by the facility.

Cold water would be pumped down into the aquifer during the winter months and withdrawn during the summer months and put back in the Columbia River.

High score, good fish benefit (temperature) & good potential for new permits, need to negotiate cost-share with Boise.

SCORE: 55.7  RANK: 7
FUNDING REQUEST: $4,500,000
EST. NWS: 1,657 AF
EST. COST PER AF: $2,716
COUNTY: Walla Walla
STREAM REACH: Mile 316 – Columbia River
Naches Selah ID
Equalization Reservoir
and Tibbling Hill Spillway

Proposal to construct an 80 acre-foot equalization reservoir and the Tibbling Hill spillway for operational & emergency spill.

Expensive, no permittable water & other feasible alternatives.

SCORE: 55.6  RANK: 8
FUNDING REQUEST: $4,090,000
EST. NWS: 5,000 AF
EST. COST PER AF: $818
COUNTY: Yakima
STREAM REACH: Naches River
Selah-Moxee ID
Selah-Moxee Water Conservation Plan

SCORE: 54.6  RANK: 9
FUNDING REQUEST: $28,000,000
EST. NWS: 20,000 AF
EST. COST PER AF: $1,394
COUNTY: Yakima
STREAM REACH: Yakima River mile 123.6, Hubbard Ditch and Little Moxee Canal

Complete piping of the Irrigation District’s remaining open canals.

Expensive, no permittable water & other feasible alternatives.
The Lands Council
Beaver Population Enhancement and Water Storage (FS)

A study of natural ecosystem small storage potential by the re-introduction of beaver to the upper Columbia basin and tributaries.

Must identify a specific watershed partner and project.

SCORE: 52.1    RANK: 10
FUNDING REQUEST: $30,000
EST. NWS: Up to 2,500,000 AF (potential)
EST. COST PER AF: $83
COUNTY: Spokane, Stevens, Grant, Okanogan, Ferry, Pend Oreille, Douglas, Whitman
STREAM REACH: Upper Columbia River basin

Wetlands created by the beavers would capture peak spring runoff and allow that water to be released during the rest of the year.
Modernization and Improvement Plan

Naches Selah ID

Modernization of conveyance and distribution systems of the NSID:
- replace two miles of wood flumes,
- enclose all open canals,
- improve 10 miles of 15 mile Main Canal,
- develop a SCADA system,
- eliminate outfalls and spills from laterals, farms, and small water users.

Expensive, no permittable water & other feasible alternatives.

SCORE: 50.3   RANK: 11
FUNDING REQUEST: $30,780,000
EST. NWS: 13,500 AF
EST. COST PER AF: $2,280
COUNTY: Yakima
STREAM REACH: Naches River
The City of White Salmon Buck Creek to Grand Ronde Aquifer ASR

Construction of a filter plant, equalization reservoirs, and a pipeline to inject surplus capacity water during the winter months into wells along the White Salmon River.

The water would be withdrawn during the summer months to supplement in-stream flows in the White Salmon River.

Low score, water rights problem, but good location, project type & high need. Attempt to reduce expense by cost-share.

SCORE: 47.9   RANK: 12
FUNDING REQUEST: $956,950
EST. NWS: 139.4 AF
EST. COST PER AF: $6,865
COUNTY: Klickitat, Skamania
STREAM REACH: Buck Creek diversion, mile 3.7 and White Salmon River mile 3.2
A study of construction of an off-stream reservoir that will store water and release it to the Peshastin Irrigation District to supplant Peshastin Creek diversions. Releases to occur in July through September.

GOOD LOCATION & FISH BENEFIT, PERMISSIBLE WATER.
A study to document and develop a program to capture the conserved water that could be gained by implementing Irrigation Water Management (IWM). Deliverables:

1. Quantification of on-farm water conservation;
2. Technical evaluation of fate of non-consumptive water saved;
3. Proposed use of saved water through seasonal transfers; &
4. Evaluation of institutional barriers to water saved by IWM in the Columbia Basin Project.
A.J. Ochoa Corporation
Green Pointe Farms

SCORE: 43.2   RANK: 15
FUNDING REQUEST: $4,600,000
EST. NWS: 3,134 AF
EST. COST PER AF: $1,468
COUNTY: Adams
STREAM REACH: East Low Canal in Phase One of the Columbia Irrigation Project

Conversion of 2,823 (assessed) contiguous acres of rill irrigation to center pivot in the Columbia Basin Project.

Must have a project match in SCBID, & coordination issues with districts not yet vetted.
<table>
<thead>
<tr>
<th>SCORE: 32</th>
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<tbody>
<tr>
<td>FUNDING REQUEST: $895,000</td>
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<td>EST. NWS: 36 AF</td>
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<td>EST. COST PER AF: $24,861</td>
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<td>COUNTY: Chelan</td>
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<td>STREAM REACH: Squilchuck Creek Drainage where Mission Ridge Road crosses Squilchuck Creek</td>
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</table>

Replacement of over 2 miles of existing 12 inch concrete pipeline.

Lowest score among piping projects & lower fish benefit.
Foster Creek CD
WRIA 44/50 Aquifer Storage (FS)

A study of pumping water out of the Columbia River during high flows and recharging the aquifer in the lower reaches of the Lower Moses Coulee such that the water would return to the Columbia River during low flow periods.

SCORE: 19.3  RANK: 17
FUNDING REQUEST: $162,500
EST. NWS: ? AF
EST. COST PER AF: ?
COUNTY: Douglas
STREAM REACH: Lower Moses Coulee

Unknown permitting amount, not much fish benefit, technical assistance will be provided on application.
A study of two possible surface water storage sites. Water will be pumped from the Columbia River to the storage sites.

SCORE: * RANK: *18
FUNDING REQUEST: $600,000
EST. NWS: ? AF
EST. COST PER AF: $? 
COUNTY: Okanogan and Ferry
STREAM REACH:

Tribe ready to proceed and so is Ecology.
A study of diverting water from the John Day-McNary Pool during the winter and spring months to a new surface storage site in the Glade-Fourmile Sub-basin in WRIA 31 and creating a new conveyance system.

Good location & concurrent infrastructure, uncertain fish & wildlife benefit, but likely permittable water.

Klickitat County
Horse Heaven Hills Surface Storage & Conveyance (FS)

SCORE: * RANK: *19
FUNDING REQUEST: $170,000
EST. NWS: ? AF
EST. COST PER AF: ??
COUNTY: Benton and Klickitat
STREAM REACH: Horse Heaven Hills
This proposal would study the feasibility of a water exchange bank, including the purchase and transfer of water rights and the sale of mitigation certificates.

Operating money isn't a good CR program fit, uncertain fish score, technical issues need to be addressed.

SCORE: * RANK: *20
FUNDING REQUEST: $400,000
EST. NWS: ? AF
EST. COST PER AF: $? 
COUNTY: Walla Walla and Columbia
STREAM REACH: Walla Walla basin
A study of the viability of aquifer storage and recovery in the SVRP aquifer. Water would be diverted from the Spokane River and Lake Pend Oreille during high flow periods, injected into the SVRP aquifer and gravity would drain the water back to the Columbia River.

Project diversity, meets local need, uncertain fish and wildlife benefit.

SCORE: * RANK: *21
FUNDING REQUEST: $250,000
EST. NWS: ? AF
EST. COST PER AF: $?
COUNTY: Spokane, Lincoln and Douglas
STREAM REACH: Spokane River basin
KID Pump Exchange

KID would forego a portion of their diversion at Prosser Dam in exchange for increased diversions lower on the Yakima and Columbia Rivers. New pump stations would be built at Kiona and Edison Street.

High amount of water restored below Prosser dam.

SCORE: *  RANK: *22
FUNDING REQUEST: $15,000,000
EST. NWS:  ? AF
EST. COST PER AF: $?
COUNTY:  Benton
STREAM REACH:  Yakima River
Pinto Dam & Upper Crab Creek (Supplemental Feed Route for the Columbia Basin Project)

Modifications to the existing Pinto Dam. They are needed to allow larger flows into Upper Crab Creek. Likewise, land acquisition and the relocation of an existing dairy are necessary because of the increased flows through the creek and the increased flooding risk associated with them.

SCORE: *  RANK: *23
FUNDING REQUEST: Up to $10,000,000
EST. NWS: AF
EST. COST PER AF: $
COUNTY:  Grant
STREAM REACH: Crab Creek
Mitigation Projects related to the Colville Tribes Agreement

One-time fisheries, cultural resources, and parks mitigation funding is incorporated in the state’s agreement with the Colville Tribes. This commitment fully retires these obligations.

SCORE: *  RANK: *24
FUNDING REQUEST: $1,331,200
EST. NWS: AF
EST. COST PER AF: $
COUNTY: Lincoln, Stevens, Ferry
STREAM REACH: N/A
The Yakama Nation has requested resources to develop fish passage at the Cle Elum Reservoir, to modify Roza Dam and reduce associated diversions at the Dam for electrical generation, and for a rapid response habitat and water right acquisition fund.
$200M Columbia River Program

Life of Columbia River Program

- **$133M** Planning, Feasibility & Development of New Storage
  - Examples:
    - Columbia River off-channel storage
    - Increasing capacity of existing reservoirs
    - Aquifer storage
    - Pump Exchange
    - Negotiating agreements with Canada

- **$67M** All other actions designed to provide new instream & out-of-stream uses

- **New Water Rights**
- **Conservation & Infrastructure** (e.g., pumps & pipe projects)
- **Acquisition** (e.g., buying rights, Canadian agreements, followed corners, etc.)
- **Modification of existing storage** (e.g., Lake Roosevelt, Davenport, Potholes, Alternative Feed Points)

Annual Project Review

- Ecology/TAG
- Evaluation of Projects
- PAG Input

Ecology Final Project List

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- Fish
### Summary of CR PROGRAM DRAFT Funding

#### 2007-2008 Grant Requests

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<tr>
<th></th>
<th>FEASIBILITY STUDIES</th>
<th>CONSTRUCTION PROJECTS</th>
<th>AF of Water Saved</th>
<th>Conservation</th>
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#### Yakama Funding List

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<th>FS</th>
<th>CP</th>
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<td>Total Funded Projects</td>
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Ecology Seeking PAG Input

- Entire funding package, not necessarily a project-by-project critique.
- Whether this proposed funding list is the right balance of:
  - Project diversity (which projects work best?).
  - Geographic diversity.
  - Construction & Feasibility (immediate versus long-term benefit).
  - Instream benefit & out-of-stream benefit.

How would the PAG like to respond?
- Executive Committee
- Individually
- Oral / Written
2007-08 Draft Grant Funding Map

Columbia River Draft Funding List

<table>
<thead>
<tr>
<th>Rank</th>
<th>Applicant</th>
<th>Project Title</th>
<th>Project Type</th>
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<tr>
<td>1</td>
<td>The Bancroft Ranch</td>
<td>Horn Rapids Canal Aging</td>
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<td>2</td>
<td>Lincoln County CD</td>
<td>Lincoln County Passive Rehydration</td>
<td>PS</td>
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<td>3</td>
<td>Fowler Creek CD</td>
<td>WRIA 44/50 Surface Water Storage</td>
<td>PS</td>
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<td>4</td>
<td>Stevens PUD</td>
<td>Mill Creek Water Storage Project</td>
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<td>Rock Lake Water Supply &amp; Habitat Enhancement Study</td>
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- Fund
- Not Fund
- C Conservation
- FS Feasibility Study
- S Storage

Map showing locations and projects across various counties in Washington State.
Questions?