

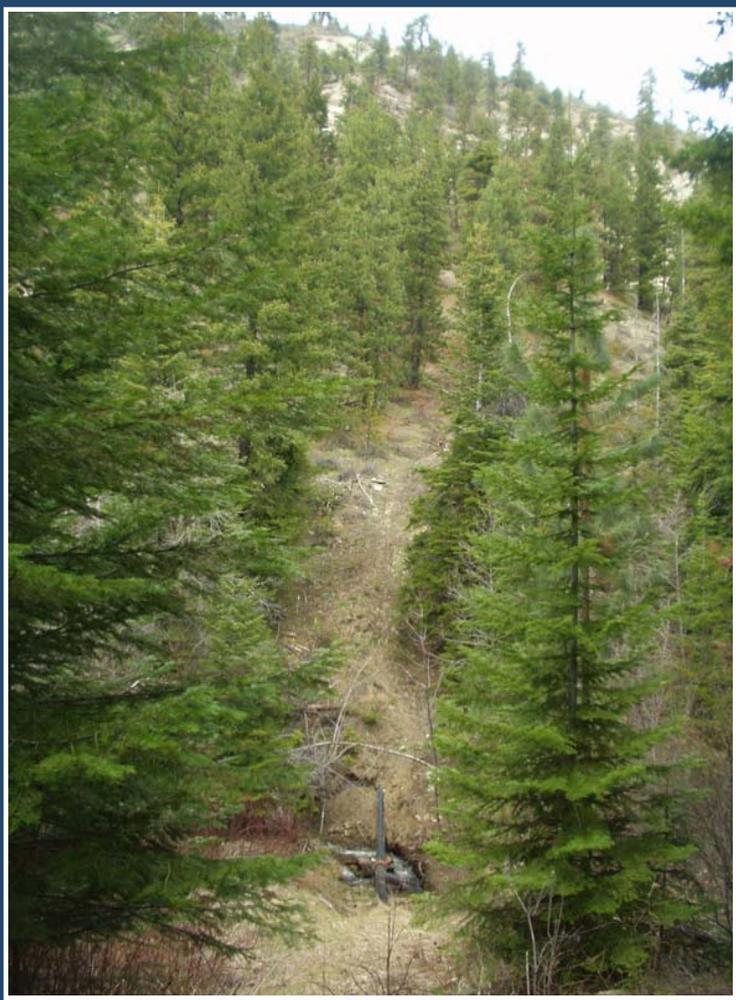
Technical Advisory Group



2009 Competitive Grant Funding Cycle

Bill Eller, WSCC, TAG Coordinator
November 12, 2009

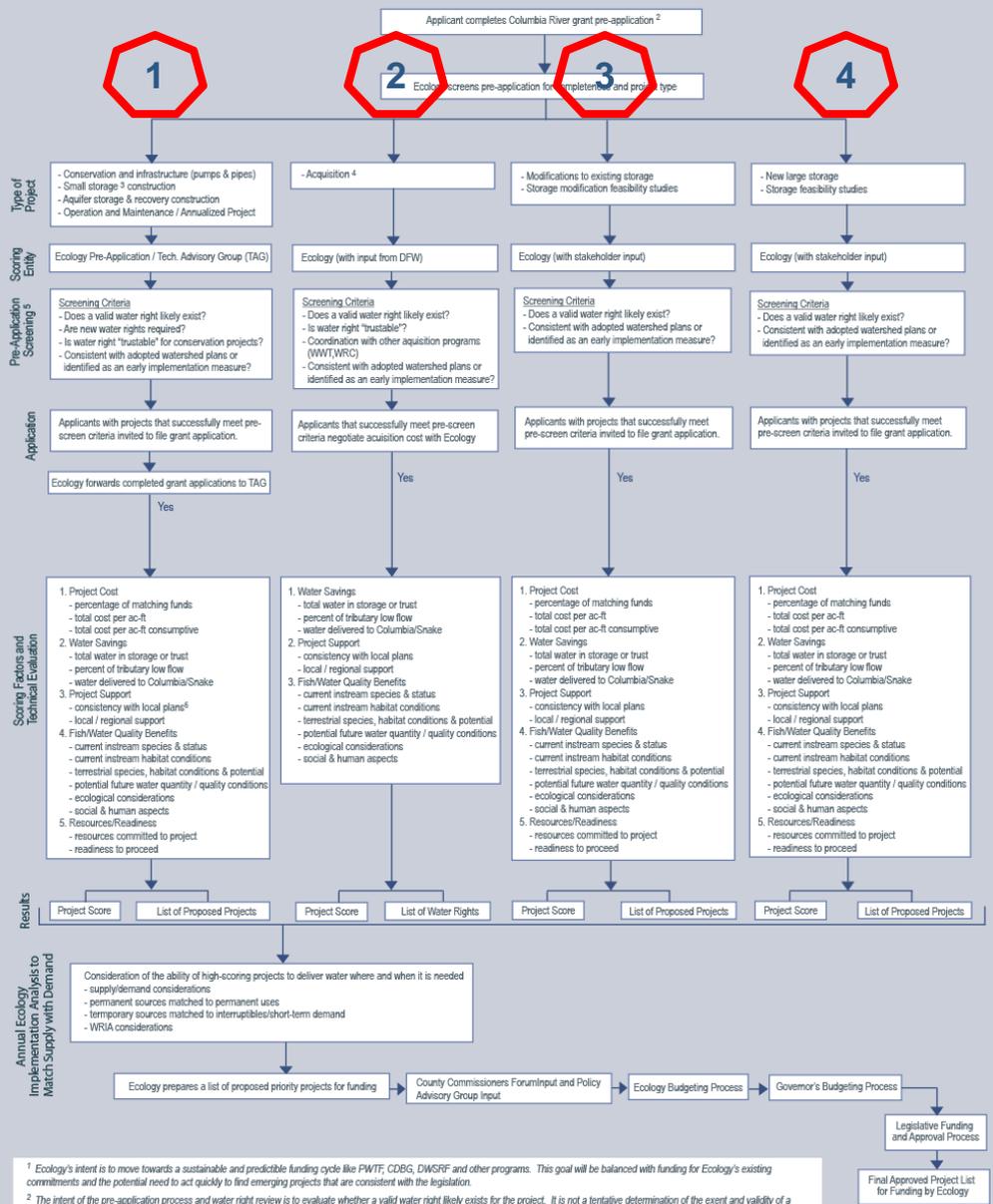
Overview



- Grant Process
- Technical Advisory Group (TAG) Process
- Draft Funding List and Map
- Individual Project Summaries
- Timeline for Grant Funding

Four Different Funding Paths

1. Competitive Grant Program
2. Water Acquisition
3. Storage Modification
4. Storage



¹ Ecology's intent is to move towards a sustainable and predictable funding cycle like PWTF, CDBG, DWSRF and other programs. This goal will be balanced with funding for Ecology's existing commitments and the potential need to act quickly to find emerging projects that are consistent with the legislation.

² The intent of the pre-application process and water right review is to evaluate whether a valid water right likely exists for the project. It is not a tentative determination of the extent and validity of a water right. However, Ecology will use many of the same tools that it uses when preparing a Report of Examination for a water right transfer, including a site examination and evaluation of historic beneficial use. This process is similar to that used in Ecology's Irrigation Efficiency Program.

³ "Small storage" will be determined annually by Ecology depending on factors like the size of project and the lead for the feasibility study (e.g. local vs. federal).

⁴ Ecology's initial acquisition efforts will likely focus on specific auctions and partnerships with other programs and groups. Columbia River "acquisition" is defined in Chapter 6 of the PEIS.

⁵ A project may not meet minimum screening criteria because the water is not "trustable" (e.g. based on a claim), because a project is not consistent with an adopted watershed plan, because of uncertainty about whether a relinquishment exemption exists to excuse nonuse, because a change application for the water right may be needed, because a new water right may be needed, or others.

⁶ Plans include watershed plans / early implementation measures, salmon recovery plans and others.

Basics of Grant Program

- Idea for a project (Irrigation District, Conservation District, landowners, others).
- Application is submitted to Ecology. Office of Columbia River staff reviews for
 - Eligibility under current grant program guidelines and
 - An available water right.
- Technical Advisory Group (TAG)
 - Site visits.
 - Scoring and ranking of the applications.
- TAG presents ranked project list to Columbia River Implementation Team (CRIT)
- CRIT reviews for
 - Project diversity.
 - Geographic diversity.
 - In-stream versus out-of-stream benefits.
- CRIT presents draft funding list to PAG for comments.
- PAG comments are presented to the Director.
- The Director makes the final funding determination.
- Presentation of the Final Funding List to the PAG.

The 2009 Grant Program

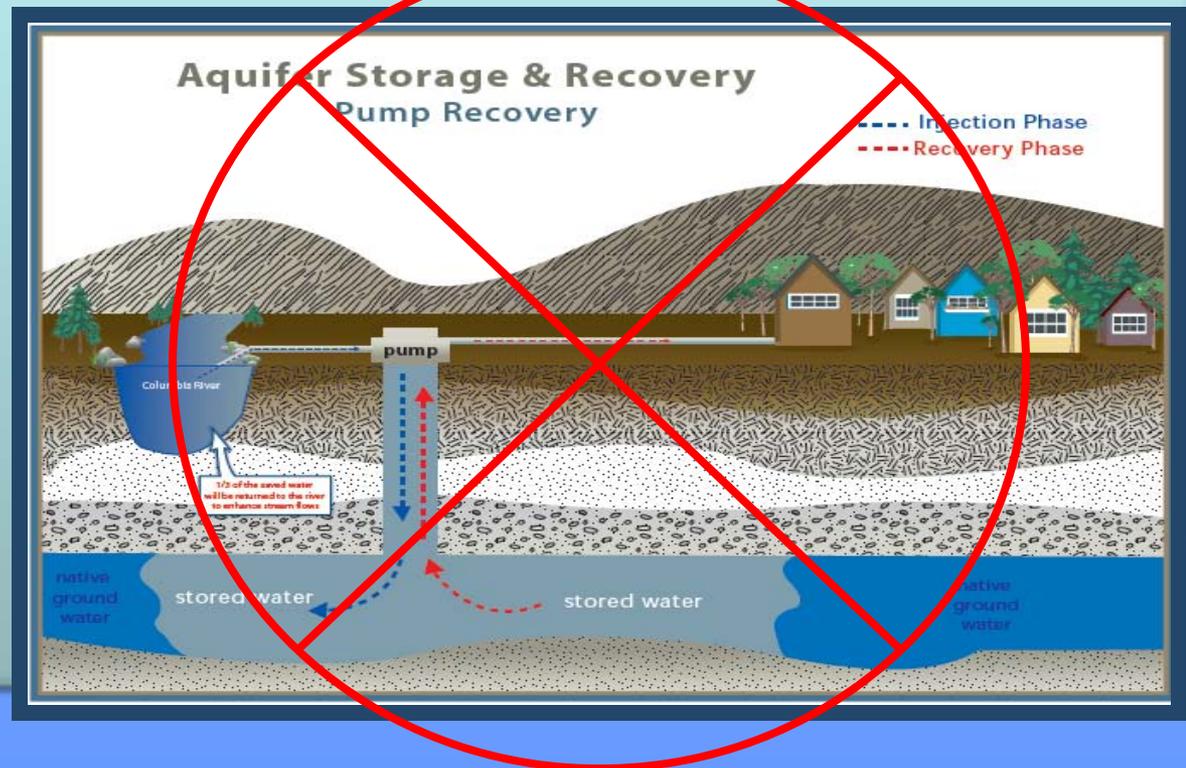
Project Types Eligible for Funding

- Modification of existing storage
 - Funding for feasibility studies, design and construction
- Conservation
 - Lining / piping
 - Ready to construct within one year
 - Funding for permitting, design and construction
- Surface Storage (includes re-regulation reservoirs)
 - Ready to construct within one year
 - Funding for design and construction only

The 2009 Grant Program

Project Types NOT Eligible for 2009 Grants

- Aquifer Storage (ASR & SAR)
- Feasibility Studies (other than existing storage modification)



TAG Process - Members

- David Brown, City of Yakima
- Jon Culp, Washington State Conservation Commission
- Guy Gregory, Department of Ecology
- Daniel Haller, Department of Ecology
- Steve Martin, Snake River Salmon Recovery Board
- Peggy Miller, Department of Fish and Wildlife
- Mark Nielson, Franklin CD
- Ian Eccles, ECBID
- Tom Ring, Yakama Nation

TAG Alternate Members:

- Steven Hays, Chelan PUD
- Mike Tobin, North Yakima Conservation District
- Bob Steele, WDFW
- Paul LaRiviere, WDFW



TAG Process



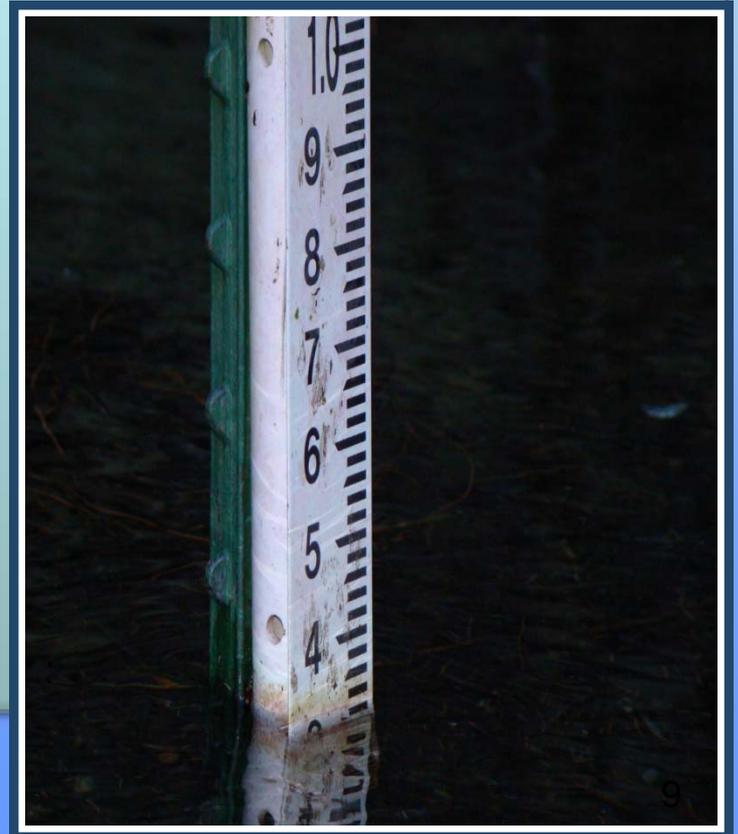
- Grant Applications due: September 28, 2009
- First meeting: October 8, 2009
 - Welcomed new members
 - Amended charter
 - Scoring training
 - Three site visits (one more on Oct 9th)
- Second meeting: October 23, 2009
 - Scored and ranked the applications
 - Sent the applications on to the CRIT
- In 15 days the TAG
 - Reviewed the six grant applications
 - Made four site visits
 - Scored and ranked all the applications

Scoring Process

The TAG scores applications based on five categories (each category worth 10 points (50 points total)):

1. Project Costs.
2. Net Water Savings.
3. Project Support.
4. Fish and Water Quality Benefits.
5. Current and Long Term Support.

Each category has a number of subcategories.



Scoring Process

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

Categories	Maximum Possible Unweighted Score	Total Unweighted Score	Weighting Factor	Maximum Possible Weighted Score	Weighted Score
1. Project Costs	10		2	20	
2. Net Water Savings	10		3.3	33	
3. Project Support	10		1.5	15	
4. Fish/Water Quality Benefits	10		2.2	22	
5. Long Term Resources	10		1	10	
TOTAL SCORE FOR ALL CATEGORIES	50		10	100	

The goals are 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 ranking of the projects.

Scoring Process

Columbia River Implementation Team (CRIT)

The CRIT considers factors not included in the TAG process in further weighting the proposed funding list:

- ✓ Project diversity.
- ✓ Geographic diversity.
- ✓ Balance between storage and non-storage in the Columbia River account.
- ✓ Balance between instream benefit and out-of-stream benefit.

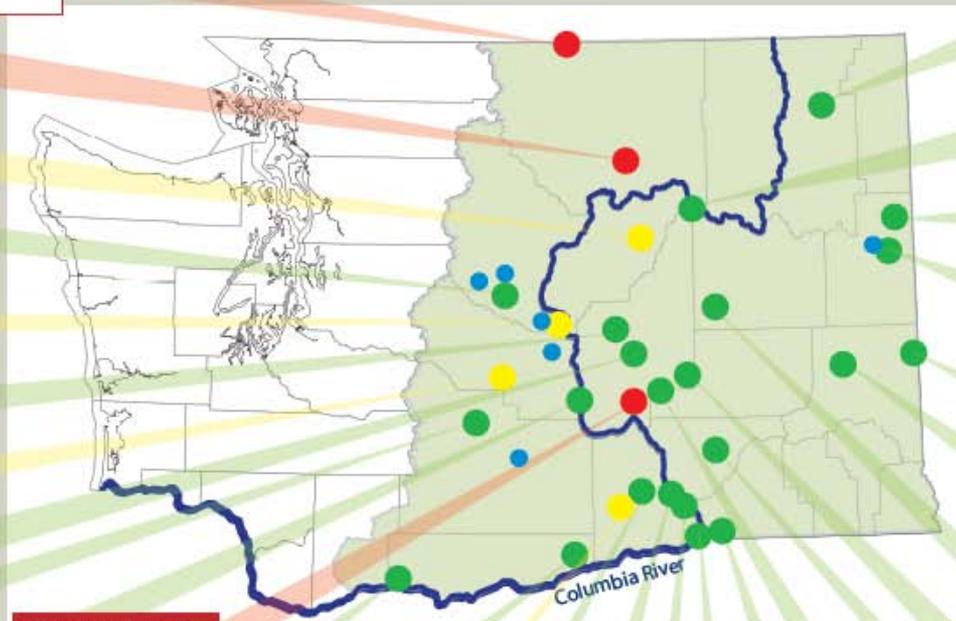


2009 Grant Round Summary

- Nine Grant Applications were received:
- Three were ineligible.
 - Moses Lake Irrigation Rehabilitation District (Crab Creek-Parker Horn Restoration Project) – Grant County.
 - Issue: The project doesn't satisfy the objectives to the Columbia River Program (RCW 90.90).
 - Lincoln County CD (Lincoln County Passive Rehydration Pilot Project) - Lincoln, Adams, Grant and Franklin counties.
 - Issue: Tasks preliminary to a pilot project have not been completed yet, and were part of the previous 2008 grant for this project and this project doesn't satisfy the objectives to the Columbia River Program (RCW 90.90).
 - Lincoln County CD (WRIA 43 Small Scale Water Storage Project Construction) – Lincoln County.
 - Issue: In essence, this project is a surface aquifer recharge project and ineligible for funding this year.
- Six were scored by the TAG.

2009 TAG Evaluated Projects

OCR Funded Projects



Similkameen Storage Project (Shanker's Bend)
 Acre-Feet of Water = 50,000 - 1.7M
 Cost = \$325,000

Goose Lake & 9 Mile Flat Water Storage (Colville Tribe)
 Acre-Feet of Water = 4,750,000
 Cost = \$600,000

Surface Storage (Foster CD) Feasibility Study
 Acre-Feet of Water = 60,000
 Cost = \$ 93,750

Campbell Creek Reservoir Feasibility Study
 Acre-Feet of Water = 500
 Cost = \$ 232,500

Rocky Reach Modifications (Chelan PUD)
 Acre-Feet of Water = 20,000
 Cost = \$ 705,000

Columbia Basin Irrigation District Piping
 Acre-Feet of Water = 1,268
 Cost = \$ 1,000,000

Manastash Creek Restoration Project (Kittitas CD)
 Acre-Feet of Water = 454
 Cost = \$ 576,000

Potholes Supplemental Feed Route Conveyance
 Cost = \$ 10,831,500

Yakima River Water Enhancement
 Acre-Feet of Water = 350,000
 Cost = \$ 3,350,000

Wanapum Pool Raise
 Acre-Feet of Water = 70,000
 Cost = \$ 500,000

Crab Creek Storage Project
 Acre-Feet of Water = 1-3 Million
 Cost = \$ \$1-\$3 Billion

White Salmon ASR
 Acre-Feet of Water = 145
 Cost = \$ 956,950

Klickitat County (Horse Heaven Hills) Feasibility Study
 Acre-Feet of Water = TBD
 Cost = \$ 170,000

Kennewick ASR
 Acre-Feet of Water = 318
 Cost = \$ 1,050,000

Walla Walla Pump Exchange
 Acre-Feet of Water = 30,000
 Cost = \$ 600,000

Odessa Subarea
 Acre-Feet of Water = 140,000
 Cost = \$ 7,619,785

Weber Siphon Conveyance
 Cost = \$ 800,000

Passive Rehydration (Lincoln County CD) Feasibility Study
 Acre-Feet of Water = 300,000
 Cost = \$ 925,000

Mill Creek Storage Feasibility Study (Stevens PUD)
 Acre-Feet of Water = 2,000-11,000
 Cost = \$ 125,000

Lake Roosevelt Incremental Storage Releases
 Acre-Feet of Water = 132,500
 Cost = \$ 4,861,000

Spokane-Rathdrum Prairie ASR Feasibility Study
 Acre-Feet of Water = TBD
 Cost = \$ 250,000

Lands Council (Beavers Study) Feasibility Study
 Acre-Feet of Water = TBD
 Cost = \$ 30,000

WA State University Supply & Demand Report
 Demand Forecasted = TBD
 Cost = \$ 750,000

Rock Lake Storage Feasibility Study
 Acre-Feet of Water = 110,000
 Cost = \$ 126,000

- **Active, Priority Projects**
- **Pending: Technical, Legal or Funding Issues**
- **On Hold**

- **2009 TAG projects**
- 1. Beehive ID, Pipeline Repair/Improvement
- 2. Lands Council - Beaver Solution to Water Storage
- 3. Chelan Co - Peshastin Irrigation Ditch Pipeline
- 4. Selah-Moxee ID - Canal Piping & Lining
- 5. Squilchuck Highline Ditch Assoc. - Ditch Replacement
- 6. WA Rivers Conservancy - Lower Wenatchee Instream Flow Enhancement

Kennewick Irrigation District Pump Exchange
 Acre-Feet of Water = 10,000
 Cost = \$ 15,000,000

Barker Ranch Canal Piping
 Acre-Feet of Water = 6,436
 Cost = \$ 5,600,000

Franklin CD IWM Feasibility Study
 Acre-Feet of Water = 394,400
 Cost = \$ 78,000

Boise Cascade ASR
 Acre-Feet of Water = 1,657
 Cost = \$ 4,500,000

Conservation Commission Retiming Pilot
 Acre-Feet of Water = TBD
 Cost = \$ 1,000,000

Applicant Project Title



SCORE: 0-100 RANK: 1-6

FUNDING REQUEST: \$

ESTIMATED NWS (Net Water Savings): AF

ESTIMATED COST PER ACRE FOOT: \$

COUNTY:

STREAM REACH:

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.



**Project Recommended for
Funding by CRIT**



**Project Not Recommended
for Funding by CRIT**

CRIT Comments

Washington Rivers

Conservancy

Lower Wenatchee In-Stream Flow Enhancement Project



Net water savings of 15 cfs in lower Wenatchee river could be augmented by incorporating side channel habitat improvements.

SCORE: 69 RANK: 1

FUNDING REQUEST: \$1,000,000

EST. NWS: 1493 AF

EST. COST PER AF: \$670

COUNTY: Chelan

STREAM REACH: WRIA 45 and the current point of diversion is within NE of NW1/4 of Section 14, Township 23N, Range 19 E.W.M..

The proposed project will consist of piping 5.5 miles of existing Pioneer Water Users Association open canal, installing a new efficient pump-back water withdrawal system, and changing the point of diversion from the lower Wenatchee River to groundwater wells adjacent to the Columbia River.

Chelan County Natural
Resources Department
Peshastin Irrigation District
Pipeline



Good source location is undermined by high project cost and drought availability issues. Continued discussions warranted with project proponent.

SCORE: 58

RANK: 2

FUNDING REQUEST: \$325,000

EST. NWS: 360 AF

EST. COST PER AF: \$2,500

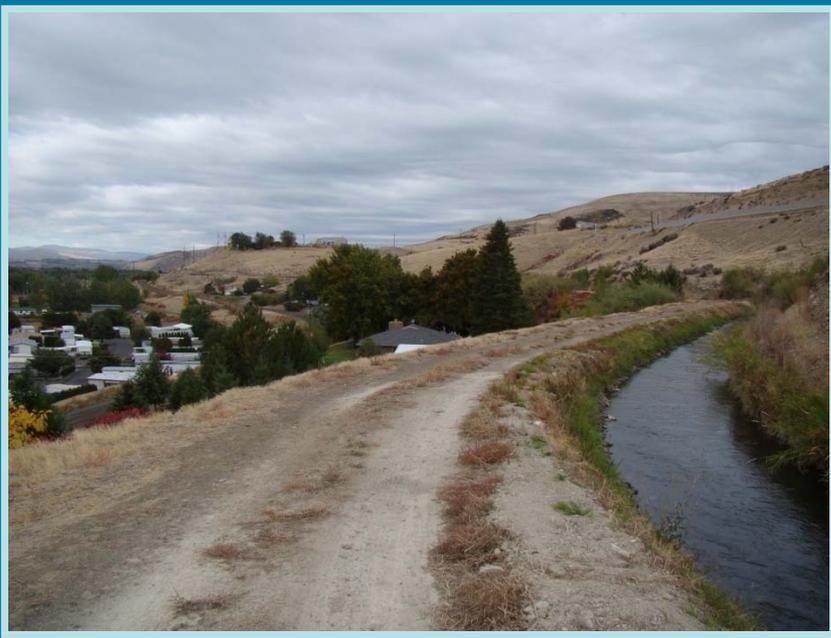
COUNTY: Chelan

STREAM REACH: Cashmere, WRIA 45 and within the boundaries of the Peshastin Irrigation District. Within Sections 5-8, T23N, R19E

Approximately 9,900 feet of the Peshastin Irrigation District canal will be converted from an open canal to a closed pipeline, using an 8-inch diameter to 36-inch diameter pipe. The upstream end of the proposed pipeline will tie into a pipeline constructed in 2005 by the PID.

Selah-Moxee Irrigation District

Canal Piping and Lining Project (3 projects)



High cost per ac-ft and modest fish improvements.

SCORE: 53

RANK: 3

FUNDING REQUEST: \$2,667,600

EST. NWS: 1001 AF

EST. COST PER AF: \$2,665

COUNTY: Yakima

STREAM REACH: WIRA 37,

Project I: T12N-R19E- & T12N-R 19E

Project II Located in T13N, R19E

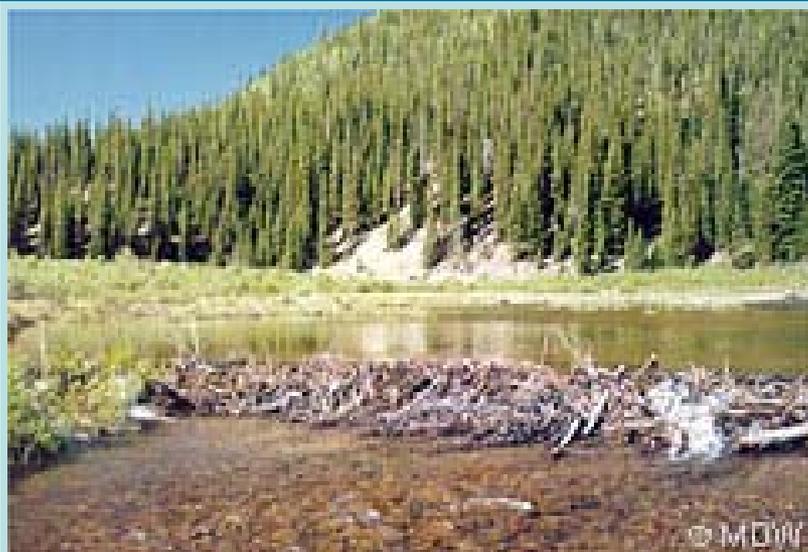
Project III Located in T13, R19E

Project I: installation of approximately 6,000 feet of pipe to replace the lower end of the Little Moxee open earth canal.

Project II: installation of approximately 1,000 feet of bituminous liner between siphon 2 and 3.

Project III: installation of approximately 8,000 feet of pipe to replace the lower end of the Little Moxee canal upstream of Ekelman Road.

The Lands Council Beaver Solution to Water Storage



Proof-of-concept project with low cost per ac-ft. Would require consultation in 2011 as to whether new water rights could be issued.

SCORE: 45

RANK: 4

FUNDING REQUEST: \$50,000

EST. NWS: 160 AF

EST. COST PER AF: \$313

COUNTY: Spokane, Stevens, Ferry

STREAM REACH:

California Creek, WRIA 55, T23N R44E

Rock Creek, WRIA 54, T21n, R41E

Wilson Creek, WRIA 59, T33N, R41E

Bear Creek, WRIA 59, T34N, R41E

Bacon Creek, WRIA 60, T38N, R32E

Alternate site, WRIA 59, T40N, R37E

Use beavers in tributary creeks of the Columbia River to form beaver dam complexes to create natural water storage which will enhance late summer stream flow in the Columbia River basin. Selected locations are based on the results of our site suitability criteria, which includes support by landowners and land managers. The beaver dams will store spring runoff and slowly release water in July, August and September, increasing stream flows below the dams.

Squilchuck Highline Ditch
Association
Squilchuck Highline Ditch
Replacement



High cost per ac-ft and
modest fish
improvements.

SCORE: 32 RANK: 5

FUNDING REQUEST: \$928,000

EST. NWS: 108 AF

EST. COST PER AF: \$8,592

COUNTY: Chelan

**STREAM REACH: WRIA 40A,
Squilchuck Creek Drainage where
Mission Ridge Road crosses
Squilchuck Creek**

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

Beehive Irrigation District Beehive Pipeline Repair / Improvement Project



**High cost per ac-ft
and modest fish
improvements.**

SCORE: 32

RANK: 6

FUNDING REQUEST: \$1,400,000

EST. NWS: 300 AF

EST. COST PER AF: \$4,667

COUNTY: Chelan

**STREAM REACH: WRIA 40A, T:21
R:19 sections 11, 12, 13, 14, 24**

*Replace up to 5 miles of
existing concrete segmented
pipeline between Squilchuck
Creek diversion and Beehive
Reservoir.*

Current Ecology Sponsored Columbia River Program Projects

Columbia Basin Irrigation District piping improvements

\$1,000,000

Wanapum Pool Raise

\$500,000

Chelan AIP Storage Projects

\$700,000

2011 Water Supply/Demand Forecast with WSU

\$748,372

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.*
 - ✓ *Balance between storage and non-storage in the Columbia River account.*
 - ✓ *Instream benefit & out-of-stream benefit.*

How would the PAG like to respond?

- Executive Committee
- Individually
- Oral / Written

**Comments due by
December 13, 2009**

Timeline for Funding

2009-2010 Funding Year

2009 Grant Timeline

Applications available on Ecology's website.
AUGUST 27, 2009



Grant Application Assistance Day at
locations around the region.
SEPT 10, 2009



Applications due.
SEPT 28, 2009



Technical Advisory Group (TAG) and
Columbia River Implementation
Team (CRIT) Review.
OCT 2009



Policy Advisory Group (PAG) Review.
NOV 2009



Agency Final Review.
NOV-DEC 2009



Grant awards announced.
EARLY 2010

We Are Here



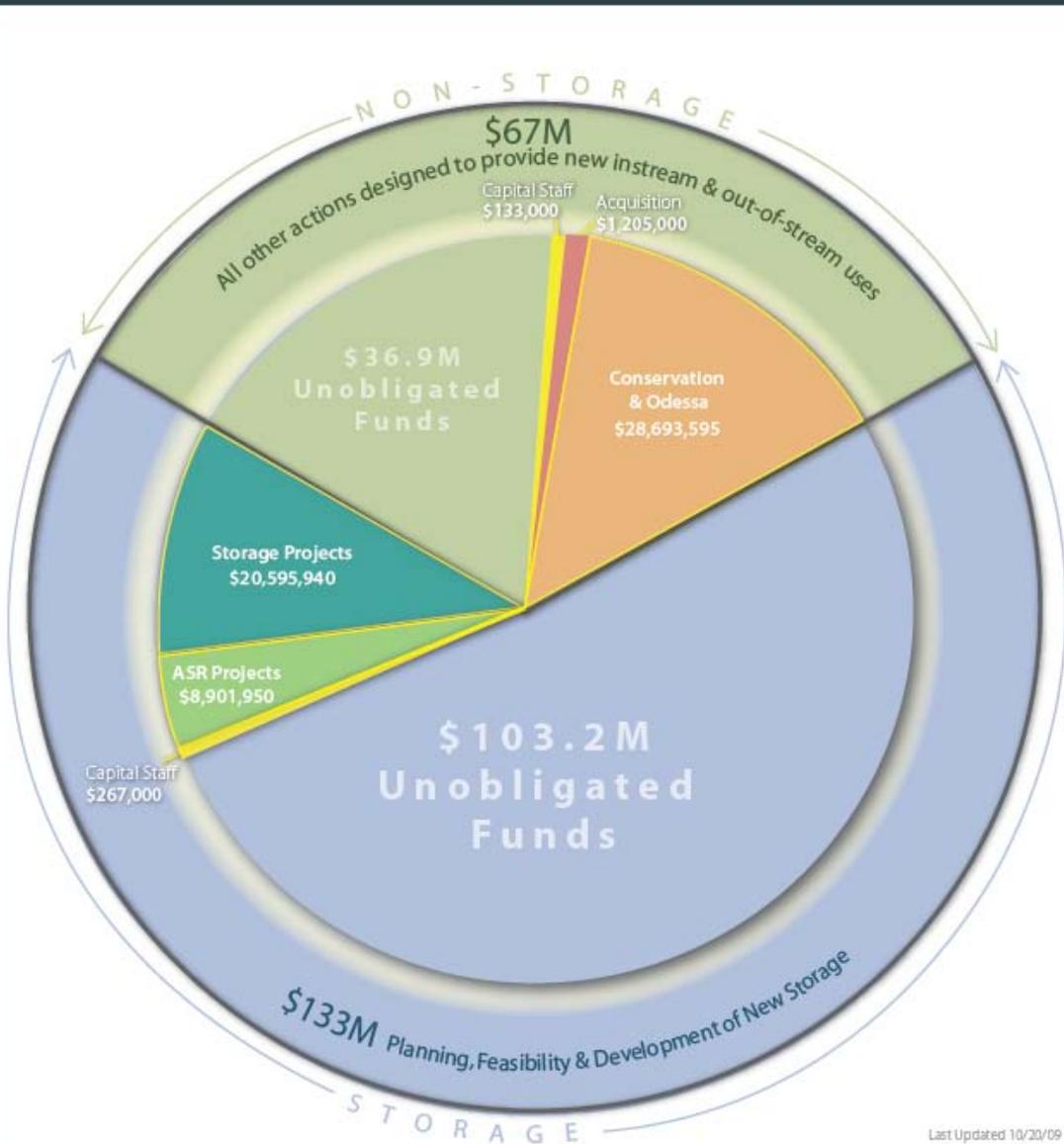
Where Are We Going?

2009-2010 Grant Funding Cycle - Important Dates

- *November 12, 2009:*
 - The draft funding list is presented to the PAG.
- *November 13 to December 13, 2009:*
 - PAG and other stakeholders submit comments to Ecology.
- *December 2009:*
 - Ecology staff finalize funding list with the Director.
- *January 2010:*
 - Final funding list presented to the PAG for discussion.



2/3 for storage and 1/3 for conservation and other non-storage projects



Last Updated 10/20/09

Note 1: Other projects funded from the \$16 Million State Building Construction Account under previous Columbia River Initiative include: PEIS, Mainstem Storage Alternatives Study, Walla Walla Pump Exchange, Metering, Odessa, Supplemental Feed Route, Lake Roosevelt SBS, Crab Creek SEIS, Frenchman Hills Construction, Yakima Storage Study, Fish & Wildlife Project Support, Conservation Commission staff

Note 2: Projects funded from the \$2M Operating Budget include: Climate Change Study, Legislative Report Forecasting, Conservation Commission staff

Note 3: Ecology is currently reviewing the allocation of contract costs between the storage and non-storage portions of the Columbia River Account. Allocations subject to change.

Note 4: Yakima Basin is under a separate appropriation.

Note 5: Some obligated funds may be available in the future if projects are determined not to be feasible.

Questions?

