

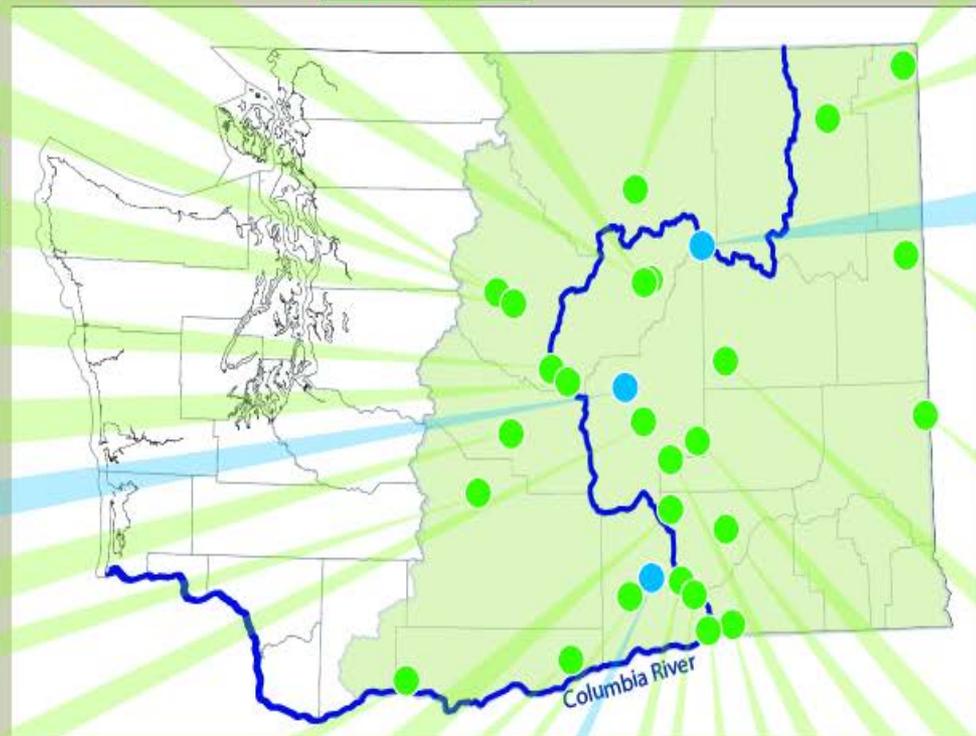
# **2013-2015 Anticipated Capital Budget and Projects**



**Columbia River Policy Advisory Group (CRPAG)  
July 26, 2012**

**Presented by  
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Office of Columbia River  
Washington State Department of Ecology**

# OCR Funded Projects



**Peshastin Pump Exchange Study**  
Ac-Ft of Water = TBD  
Cost = \$200,000

**Chelan PUD: Rock Island Off Channel Storage**  
Ac-Ft of Water = 85,300  
Cost = \$125,000 (Pre-Appraisal)

**Foster CD: Moses Coulee Shallow Aquifer Recharge**  
Ac-Ft of Water = TBD  
Cost = \$93,750 (Pre-Appraisal)  
Cost = \$200,000 (Appraisal)

**Goose Lake & 9 Mile Flat Water Storage (Columbia Tribe)**  
Ac-Ft of Water = 4,750,000  
Cost = \$600,000 (Pre-Appraisal)

**Sullivan Lake Water Supply**  
Ac-Ft of Water = 14,000  
Cost = \$14,000,000

**Mill Creek Storage Study**  
Ac-Ft of Water = 2,000-11,000  
Cost = \$125,000 (Pre-Appraisal)  
Cost = \$425,000 (Appraisal)

**Aquifer Storage & Recovery Exploration**  
Ac-Ft of Water = TBD (Regional)  
Cost = \$1,750,000

**Peshastin Irrigation District Piping**  
Ac-Ft of Water = 360  
Cost = \$245,000

**Lower Wenatchee In-Stream Flow Enhancement Project**  
Ac-Ft of Water = 1493  
Cost = \$1,100,000

**Chelan PUD Pump Storage Appraisal**  
Ac-Ft of Water = 50,000  
Cost = \$165,000 (Pre-Appraisal & sites)  
Cost = \$400,000 (Appraisal 2 sites)

**Rocky Reach Pool Raise**  
Ac-Ft of Water = 28,000  
Cost = \$500,000 (EIS)  
Cost = \$50,000 (Pre-appraisal)

**Lake Roosevelt Incremental Storage Releases**  
Ac-Ft of Water = 132,500  
Cost = \$4,861,000 (+ \$5.6M, annually)  
Econ. Value = \$3B (Muni/Industrial)  
Jobs = 35,000 (Muni/Industrial)  
Econ. Protected = \$1.1B/yr (Odessa)  
Jobs Protected = 784 (Odessa)  
Econ. Protected = \$9.5M/yr (Drought)  
Jobs Protected = 140 (Drought)

**Columbia Basin Irrigation District Piping**  
Cost = \$30,000 (Study)  
Ac-Ft of Water = 2,521 (2009)  
Cost = \$1M (2009)  
Jobs = 13 (2009)  
Econ. Value = \$2M (2009)  
Ac-Ft of Water = 2,929 (2010)  
Cost = \$2M (2010)

**Manashtash Piping**  
Ac-Ft of Water = 454  
Cost = \$376,000

**Spokane-Rathdrum Prairie ASR Study**  
Ac-Ft of Water = TBD  
Cost = \$250,000 (Study)

**WSU/WDFW Supply & Demand Report**  
Demand Forecasted = TBD  
Cost = \$1,000,000 (Study)

**Yakima River Water Enhancement**  
Ac-Ft of Water = 350,000  
Cost = \$3,350,000 (Study)  
\* SBCA Funding

**Potholes Supplemental Feed Route**  
Conveyance  
Cost = \$15,147,748

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

**White Salmon ASR**  
Ac-Ft of Water = 145  
Cost = \$956,950

**508.14 Rule Change**  
Ac-Ft of Water = TBD  
Cost = TBD

**Weber Siphon**  
Conveyance  
Cost = \$800,000

**Conservation Commission Irrigation Efficiencies**  
Ac-Ft of Water = TBD (Regional)  
Cost = \$2,000,000

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

\*All projects funded from the Columbia River Water Supply Development Account unless otherwise noted.

**Klickitat County (Horse Heaven Hills) Study**  
Ac-Ft of Water = 105,000  
Cost = \$170,000 (Pre-Appraisal)  
Cost = \$300,000 (Appraisal)

**Kennewick ASR**  
Ac-Ft of Water = 318+  
Cost = \$2,250,000

**Walla Walla Pump Exchange**  
Ac-Ft of Water = 30,000  
Cost = \$600,000 (EIS)  
Cost = \$40M (Construction)

**Odessa Subarea**  
Ac-Ft = 176,343 - 347,137  
Cost = \$8,223,469 (Study)  
Cost = \$841.6M - \$3.314B (Construction)

**Conservation Commission Retiming Pilot**  
Ac-Ft of Water = TBD  
Cost = \$1,000,000

**Red Mountain AWA Pump Project**  
Ac-Ft of Water = 11,005  
Cost = \$95,000 (Study)  
Cost = \$10,000,000 (Construction)  
Cost = \$500,000 (Mitigation)

**Barker Ranch Canal Piping**  
Ac-Ft of Water = 6,436  
Cost = \$5,600,000  
Jobs = 71  
Econ. Value = \$10,890,000

**Franklin CD IWM Study**  
Ac-Ft of Water = TBD  
Cost = \$78,000 (Study)

**Boise Cascade ASR**  
Ac-Ft of Water = 1,657  
Cost = \$6,000,000

**SRB & Tribal Fisheries Project**  
Ac-Ft of Water = TBD (Regional)  
Cost = \$1,000,000

# 2013 - 2015 Projects

## Odessa Groundwater Replacement Project



**FUNDING:** \$30 -35 million  
**EST. NWS:** 164,000 ac-ft (total)  
**OCR DIR:** Odessa  
**EST COST per AF:** \$ TBD

**The state grant along with Reclamation monies will fund a portion of the Odessa Groundwater Replacement Project, including: widening of East/Low Canal from I-90 to Lind Coulee Wasteway and construction of Lind 1 & 2 Siphons.**

# 2013 - 2015 Projects Coordinated Conservation

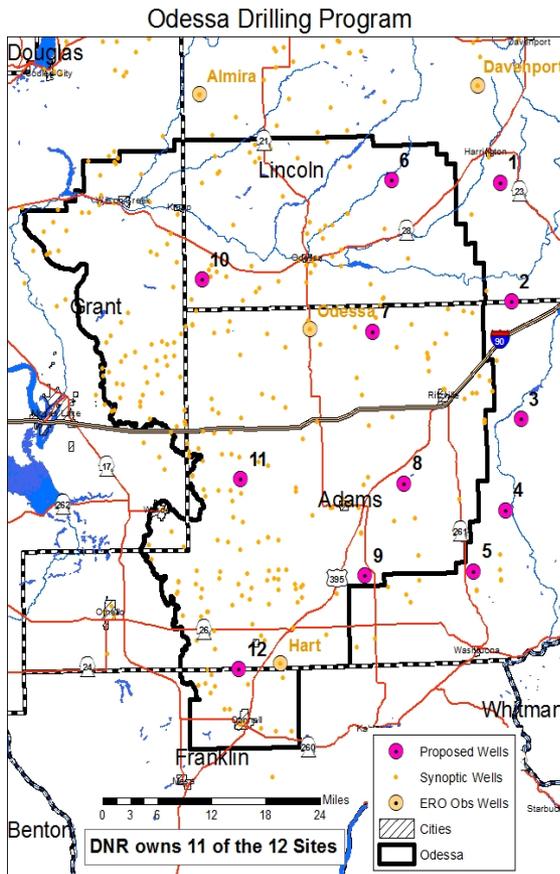


**FUNDING:** \$6 million  
**EST. NWS:** 30,000 ac-ft (total)  
**OCR DIR:** Odessa  
**EST COST per AF:** \$1000

**Funds the Columbia Basin Irrigation Districts to continue to implement conservation projects. The conserved water will be used to replace groundwater for irrigation lands in the Odessa Subarea and for fish and wildlife enhancements.**

# 2013 - 2015 Projects

## Odessa Observation Well Drilling



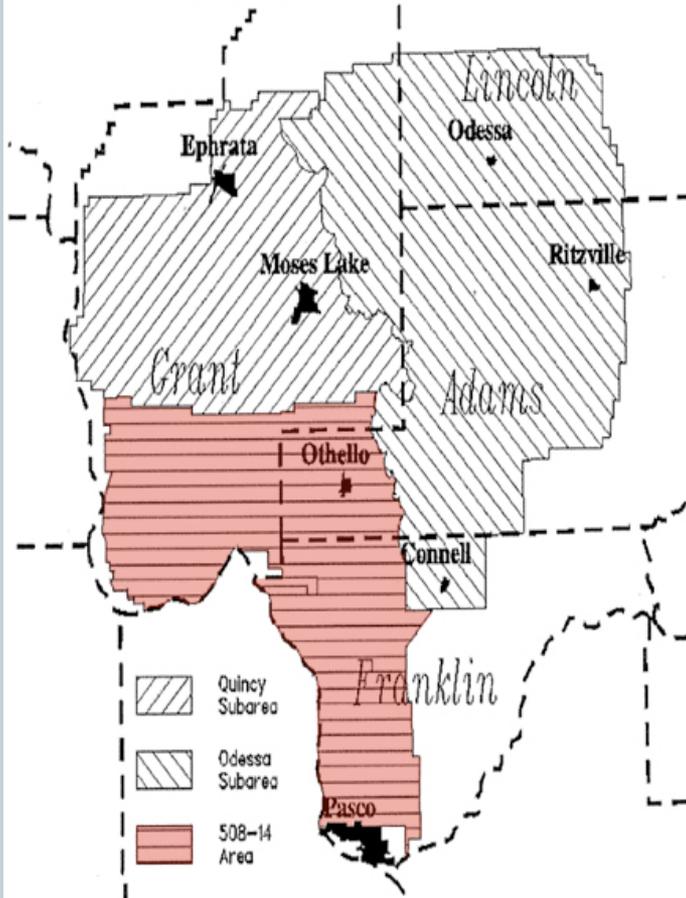
**FUNDING:** \$1.8 million  
**OCR DIR:** Odessa

**Development of a well monitoring system for assessing aquifer health throughout entire Odessa area.**

# 2013 - 2015 Projects WAC 508-14 Area



## Columbia Basin WACs



**FUNDING:** \$2 million  
**EST. NWS:** TBD ac-ft  
**OCR DIR:** New water rights  
**EST COST per AF:** \$TBD

**Project involves updating geotechnical info for Franklin Co., developing new geotechnical data for remainder, and NEPA/SEPA support for the rule revision and eventual new water allocations.**

# 2013 - 2015 Projects

## Sullivan Lake Project



**FUNDING:** \$9 million  
**EST. NWS:** 14,000 ac-ft (total)  
**OCR DIR:** New water rights  
instream flow  
**EST COST per AF:** \$1000

**Funds the remaining \$9 million (out of \$14 million). The agreement between Ecology and Pend Oreille PUD is to make water available for municipal, domestic, irrigation, stock water and instream flows in northeastern Washington.**

# 2013 - 2015 Projects

## Kennewick Irrigation District



**FUNDING:** \$5 million  
**EST. NWS:** 11,000 ac-ft (total)  
**OCR DIR:** New water rights,  
instream flows  
**EST COST per AF:** \$

**The grant funds the remaining \$5M (out of \$10M) for KIDs Red Mountain Project to create 1,400 acres of new vitaculture lands on Red Mountain and improve flows in the lower Yakima River by moving the pump station downstream from Prosser to Kiona.**

# 2013 - 2015 Projects

## Aquifer Storage and Recovery



**FUNDING:** \$ 5 million+-  
**EST. NWS:** ~ 17,000 ac-ft  
**OCR DIR:** New water rights,  
instream flows  
**EST COST per AF:** \$ TBD

**Existing ASR projects (Kennewick, White Salmon, Boise-Cascade) will require some level of new appropriation to reach the final permitting stage.**

# 2013 - 2015 Projects

## New Project Proposals



### **Horse Heaven Hills ASR - \$125,000**

Aquifer Test and data analysis for Western Horse Heaven Hills area in WRIA 31.

Project Proponent – Klickitat County Natural Resources

### **Spring Creek Storage Analysis - \$95,000**

Water supply and late season flow augmentation.

Project Proponent – Klickitat County Natural Resources

### **Wenatchee Integrated Plan - \$125,000**

Forming a Wenatchee Water Work Group, develop an integrated list of storage, conservation, pump exchange, habitat, fish passage, and WQ projects.

Project Proponent – Chelan County Natural Resources

# 2013 - 2015 Projects

## New Project Proposals - Cont.



### **Walla Walla River Ecosystem Restoration Project- \$400,000**

Continue Walla Walla watershed management. Subject to agreement with Walla Walla County/Partnership, Umatilla Tribes, Corps, etc.

Project Proponent – Ecology

### **Spokane Rathdrum Prairie Aquifer - \$200,000**

Benefits analysis to quantify instream and out-of-stream benefits.

Project Proponent – Ecology

### **Icicle Irrigation District Water Delivery Alternatives - \$225,000**

Evaluate potential for diversion reductions. To be coordinated with Chelan County Icicle Management Program (existing grant).

Project Proponent – TU-WWP

# 2013 - 2015 Projects

## New Project Proposals



### **Methow Valley Irrigation District Point of Diversion Change - \$6.2 million**

Move west canal diversion to Methow River.

Improves Twisp River flows by 11cfs.

Project Proponent – TU-WWP

### **Eastern Washington Irrigation Efficiency Projects – \$7.2 million**

Approximately 15 conservation and habitat projects.

Project Proponent – Conservation Commission

### **Water acquisitions and leases - \$4 million**

Project Proponent – Ecology

### **Barkley Diversion (Methow) Replacement - \$750,000**

Install pump and screen, reconnect Bear Creek to Methow.

Project Proponent – TU-WWP

# 2013 - 2015 Projects

## Gardena Irrigation District Piping



**FUNDING:** \$15 million  
**EST. NWS:?**  
**OCR DIR:** Instream Flow  
**EST COST per AF:** TBD

**Subject to determination of significance of water savings relative to instream resources of the Walla Walla River.**

# 2013 - 2015 Projects

## Yakima River Basin Integrated Plan



**FUNDING:** \$20 million state  
**COSTS:** Federal, State, Local

- Fish Passage
- Habitat/Watershed Enhancement
- Conservation
- Aquifer Storage
- Surface Storage



**A mix of OCR and non-OCR capital funding has been provide to that effort since 2003.**

# Questions?

