Yakima Basin Integrated Plan
Columbia River Policy Advisory Group

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Yakima Basin Water Management

• Managed by Bureau of Reclamation
• Five reservoirs
  • Capacity: 1 million acre-feet
  • Average annual runoff: 3.3 million acre-feet
• Irrigation deliveries:
  • 1.7 million acre-feet
• Snowpack functions as ‘sixth reservoir’
The Yakima Basin Integrated Plan

A balanced package of actions focusing on seven key elements:

• Fish Passage
• Habitat Enhancement
• Modifying Existing Structures and Operations
• Surface Storage
• Market-Based Reallocation
• Groundwater Storage
• Enhanced Water Conservation

To address:

• Climate change, snowpack decline
• Over-appropriation of existing water
• Reduced & extirpated fisheries
Initial Development Phase

- First 10 year phase of 30 year plan
- Projects most critical for drought resilience, species protection/recovery & habitat conservation
- Advances all seven plan elements
- Represents just under 1/3 of estimated plan costs
  - Approximately $900 million
Initial Development Phase Goals

Costs are preliminary based on studies to date

- Cle Elum Reservoir pool raise $18 million
- Cle Elum Reservoir Fish Passage $125 million
- Kachess Drought Relief Pumping Plant TBD – water user funded
- Keechelus-Kachess conveyance TBD - water user funded
- Evaluation, design & construction of second fish passage facility at Tieton Dam $100 million
- Habitat and land acquisitions (Teanaway community forest) $100 million
- Aquifer Storage and Recovery $6 million
- Agricultural Conservation $85 million
- Water Marketing $.5 million

Costs are preliminary based on studies to date.
Funding Moving Forward – 2015-2017

• 2013 WA State Budget: $137 million for YBIP implementation in 2013-2015
  • $99 million - Teanaway purchase
  • $1 million - Teanaway management
  • $32 million - Ecology funded IP projects
  • $5 million - Kittitas County infrastructure/facilities

• 2015 WA State Budget: $30 million for YBIP implementation in 2015-2017
  • $9.5 million – Water Supply Projects
  • $9.5 million – Fisheries Projects
  • $5 million – Water Conservation Projects
  • $5 million – Habitat Projects
  • $1 million – Groundwater Storage & Market Reallocation

• Federal Appropriated Funding
  • FY 15 - $4.27 million – Cle Elum Fish Passage
  • FY 16-17 – funding for fish passage & water supply reliability
Habitat / Watershed Protection

• 13-15 budget $102,719,000
• 15-17 budget $ 5,000,000
• 50,000 acres of Teanaway lands purchased
• Seek protective designations on public lands and waters
• Mainstem Floodplain and Tributaries Fish Habitat Enhancement Program

Habitat Restoration
Operational Modifications

- 13-15 budget $3,750,000
- 15-17 budget $7,100,000
- Keechelus to Kachess Pipeline
- Subordination of Power Generation
Fish Passage

- 13-15 budget $10.1 million
- 15-17 budget $9.5 million
- Cle Elum Dam Fish Passage
  - Groundbreaking August 27, 2015
- Tieton Dam Fish Passage
- Sockeye Salmon Reintroduction

Photo credit: Roger Satnik, KRD
Surface Storage

- 13-15 budget $18.1 million
- 15-17 budget $2.4 million
- Cle Elum Pool Raise
- Kachess Inactive Storage
- Wymer Reservoir
- Bumping Reservoir Enlargement

Photo credit: Roger Satnik, KRD
Groundwater Recharge & Storage

- 13-15 budget $600,000
- 15-17 budget $500,000
- Managed recharge modeling
- Pilot projects on KRD and WIP
- Groundwater Aquifer Storage and Recovery; City of Yakima
Enhanced Water Conservation

- 13-15 budget $2.5 million
- 15-17 budget $5 million
- Municipal and Agricultural Conservation Elements
- Conservation goals through irrigation efficiencies
- Improved Instream flows
- Reduced maintenance and pumping costs

Agricultural Conservation Projects

1. Kennewick Irrigation District (KID) Division IV Lining
2. Wapato Irrigation Project (WIP) Piping Lateral 4-414C
3. Wapato Irrigation Project Piping Satus East Lateral E73
4. Manastash Creek, Anderson Diversion Irrigation Water Acquisition
5. Manastash Creek Sprinkler Conversions
6. Yakima-Tieton Irrigation District (YTID) Feasibility Study – Tieton to Ahtanum Exchange
7. Manastash – Consolidated Pipeline & Manastash Water Ditch Association (MWDA) Pipeline Construction

Photo credit: Roger Satnik, KRD
Market-Based Reallocation

- 13-15 budget $350,000
- 15-17 budget $500,000
- 2015 Drought Declaration enabled DOE to lease water from willing sellers
- Further investments are planned to develop the mechanics and incentives for large scale water market transactions
Initial Development Phase Schedule

- Kachess Drought Relief Pumping Plant and Keechelus-to-Kachess Conveyance
  - Draft EIS – currently responding to comments
  - Final EIS – 2016
- Cle Elum Pool Raise
  - Final EIS – March 2015
  - Record of Decision – April 2015
  - Radial Gate Raise – 2016
  - Shoreline Protection- 2016-2021
- Cle Elum Dam Fish Passage Facilities
  - Groundbreaking – August 2015
  - Helix vault – October 2016
Federal Legislative Reauthorization

The Yakima River Basin Water Enhancement Project Act of 2015 (S. 1694)

- Introduced June 25, 2015
- Cosponsored by Senators Maria Cantwell and Patty Murray (D-Wash.)
- Based on
  - YBIP
  - Work done during YRBWEP I and II
  - Extensively modified through negotiation within the Implementation Committee
  - Revised by Senate Energy and Natural Resources Committee staff in consultation with Bureau of Reclamation

- Endorses the YBIP and authorizes its Initial Development Phase
- Allows for cost-sharing
  - 50/50 state and non-state sources
  - Irrigation districts and water users to fund infrastructure projects with interest
Thank You!

• Questions?