

Goals Handout

Purpose for Establishing Goals: Identify what the Work Group would like to achieve with the Integrated Package and associated Implementation Plan.

Guidance:

- Cover the bases but try to keep it simple to avoid getting bogged down at this point
 - Out of stream supply: Ag, M&I
 - Flow enhancement: mainstems and tributaries
 - Water efficiency: Ag, M&I
 - Up and downstream passage: mainstems and tributaries
 - Habitat enhancement: mainstems and tributaries
 - Other??
- Enough specificity where needed to compare among various project alternatives (E.g., either/or situations)
- Provide some flexibility to allow for creative problem solving
- Additional detail will be provided in the implementation plan.

Existing Goal Information

(from Integrated Water Management Alternative Final EIS, June 2009)

Fish Passage

- Provide fish passage [up and downstream] at existing storage reservoirs and other structures that currently restrict or block passage, in order of priority:
 - Cle Elum Dam
 - Bumping Lake Dam
 - Tieton Dam
 - Keechelus Dam
 - Kachess Dam
- Reestablish populations of anadromous salmonids.

Modifying Existing Structures and Operations

- Improve flows to reduce downstream travel times and increase smolt survival. Target reaches are downstream of Roza, Wapato, Parker and Prosser dams.
- Enhance juvenile bypass outfall facilities to improve survival at Roza (project construction planned). Evaluate at Parker, Wapato and Wanawish.
- Enhance tributary flows on Taneum, Manastash, Big and Little Creeks

- Augment stream flows in Lower Naches by completing Wapatox project (ties with conservation projects)

New Surface Storage

- Improve supply for proratable irrigators during low flow years
- Provide for municipal growth and improve spring and summer flows for resident and anadromous fish.
- Example benefits for increased Naches basin storage:
 - Increase winter and spring flow in the Bumping, Naches and Yakima Rivers during droughts
 - Reduce September flows in the Tieton River
 - Increase summer flows in the Yakima River below Parker gage
 - Provide for additional pulse flows when needed in winter or spring
- Example benefits for Wymer storage
 - Used in conjunction with upper basin fish projects to prevent any potential loss of TWSA
 - Store runoff in winters where prolonged thawing conditions create high flow conditions mid-winter
 - Improve the flexibility of water management in the event that climate change increases the frequency of mid winter runoff events.

Groundwater Storage

- Supply out of stream uses, increase streamflows through increased groundwater discharge and/or replenish depleted groundwater storage

Fish Habitat Enhancement

- Keechelus Dam to Roza Diversion – Enhance spawning and rearing habitat by restoring floodplain connectivity and reestablishing side channel connections, and protecting existing habitat
- Roza Diversion to Prosser Dam – Enhance migration timing for adult salmonids and juvenile outmigration by improving flows. Enhance rearing habitat by restoring floodplain connectivity and reestablishing side channel connections, and protecting existing habitat.
- Prosser Dam to Columbia River Confluence – Protect and restore mainstem and off-channel habitats, particularly in floodplain reaches and documented cool water refuge areas. Improve flows.
- Bumping Dam to Tieton River Confluence – Protect functional habitat in the mainstem Naches and its floodplain. Restore off-channel habitat and flood plain function in the upper Naches.
- Tieton River Confluence to Yakima River Confluence – Protect and restore complex floodplain habitats and improve floodplain function and sediment transport at diversion structures

- Tributary Habitat Improvements – Protect, restore and enhance channel and floodplain connectivity, riparian habitat, fish passage, instream flows and instream channel complexity. See Table 2-2 in EIS for list of tributaries and identified improvements.

Enhanced Water Conservation

- Enhance instream flows and conserve existing water supply by improving water use efficiency in irrigation district conveyance, on-farm water application, and municipal, commercial and industrial systems.

Market Based Reallocation

- Increase the overall value of the goods and services derived from the basin's water resources by reallocating water from low-value to high-value uses
- Reduce the delay and transaction costs for reallocating water resources
- Ensure appropriate consideration for potential third party impacts.

Attachments with Additional Background Information

- 3 Maps Identifying Flow Issues (Spring, Summer and Winter)
- Water Demand Estimates Handout (also provided at 7/15 Work Group Meeting)
- Monthly Flow Targets for Dry, Average and Wet Years (developed by USBR Technical Work Group for 2008 Storage Feasibility Study)