# Yakima Basin Integrated Plan



**County Leadership Conference** 

Vancouver, WA

November 21, 2024

Joe Blodgett, Yakama Nation – Urban Eberhart, Kittitas Reclamation District Amanda McKinney, Yakima County – Brandon Parsons, American Rivers

# CONFLICT TO COLLABORATION

#### Climate Change Is Ravaging the Colorado River. There's a Model to Avert the Worst.

Success in the Yakima River Basin in Washington holds lessons for the seven states at war over water in the American West.

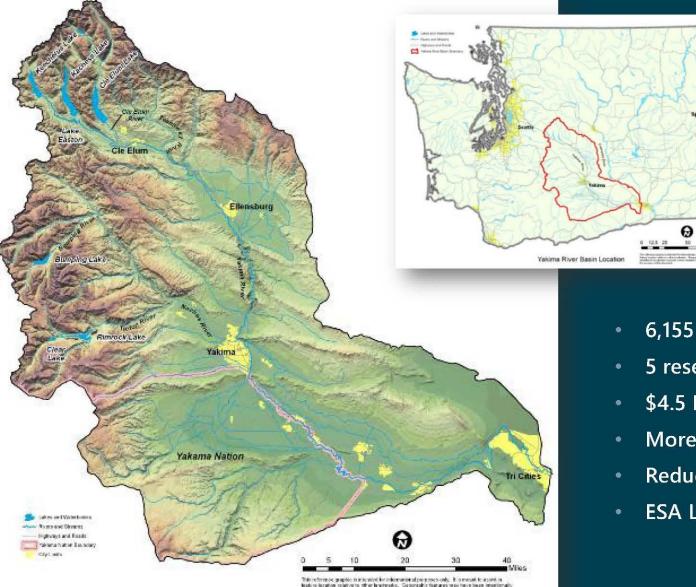


Pipes and canals that carry irrigation water to farms in the Yakima River Basin in Central Washington.

Photo: Ruth Fremson | The New York Times Story: Henry Fountain | The New York Times

- Yakima Basin Integrated Plan
- 2008 Roza and Yakama Nation proposal to Ecology
  - Reject water imports Black Rock
  - Yakima Basin-centered approach
  - "All of the above" solution set
- 2009-2011
  - Ecology convened workgroup
  - Bureau of Reclamation basin study
- 2011-2012
  - Federal/State Programmatic EIS
- 2013-2043
  - Implementation

# Yakima River Basin Overview

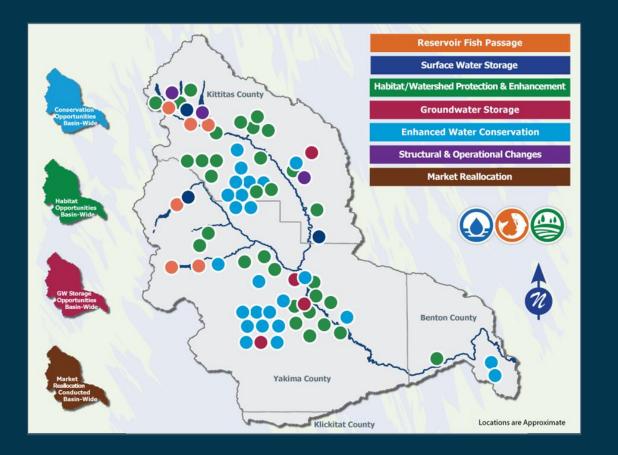


aimplified is an attempt to provide a more reasoning product. He représentation is reade au to

Yakima Project – 1905 & Yakima River Basin Water Enhancement Project - 1979

- 6,155 sq. miles with 464,000 irrigated acres.
- 5 reservoirs w/ 1M AF capacity; irrigation deliveries 2.3M AF
- \$4.5 Billion agriculture economy
- More frequent droughts
- Reduced Fisheries
- ESA Listed Species: Bull Trout and Steelhead

## YAKIMA BASIN INTEGRATED PLAN

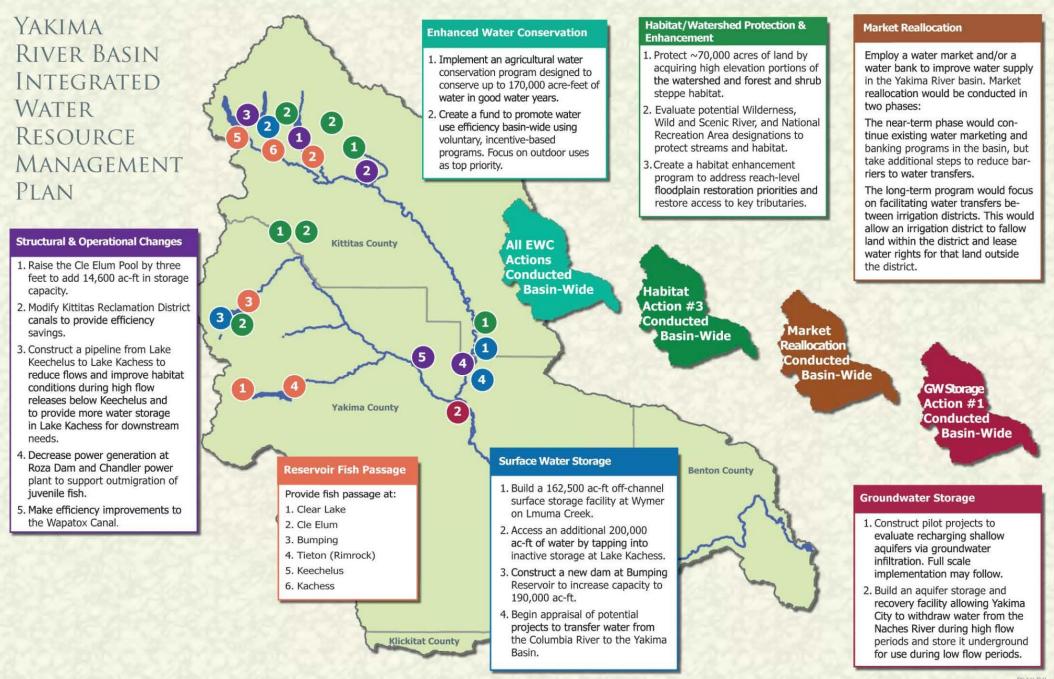


- 30 year plan
- \$4 billion
- 7 elements
- 3 phases
- Move forward together
- Now in Initial Development Phase

### YBIP GOALS

- Reliable Irrigation Water Supply
  - 70% delivery in dry years to proratable rights
- Increase Municipal Water Supply
  - Authorize M& I use
  - 50,000 acre-feet
- Restore Fishery
  - "Self-sustaining harvestable populations"
  - Fish passage
  - Habitat protection and restoration
- Adapt to Climate Change
  - Increase storage
  - Make best use of existing supplies
- Robust Economy





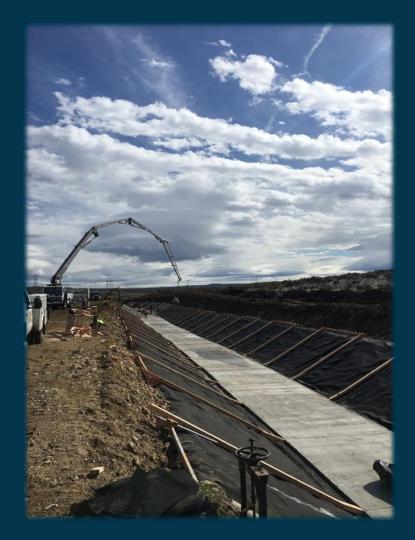
# WATER SUPPLY RELIABILITY



- GOAL
  - 70% pro-ratable irrigation supply in drought years
  - Fishery flows needed to sustain YBIP fishery goals
  - M&I supply
- APPROACH
  - Conservation
  - System level reengineering
  - Drought supply
  - Increased surface storage
  - Managed aquifer recharge
  - Marketing

# WATER SUPPLY RELIABILITY

- Conservation
  - System level conservation BOR/BIA/State/Districts
  - On farm conservation NRCS
  - "Conservation opens opportunity"
  - Limited only by funding
- Water Marketing







# WATER CONSERVATION OPPORTUNITIES

- Save water seepage from the canals.
- Provide for more consistent water deliveries to customers within the district.
- Create more capacity in the canal system.
- Help threatened species within the vicinity of the districts canal distribution system.



Benefits of Canal Conservation Projects

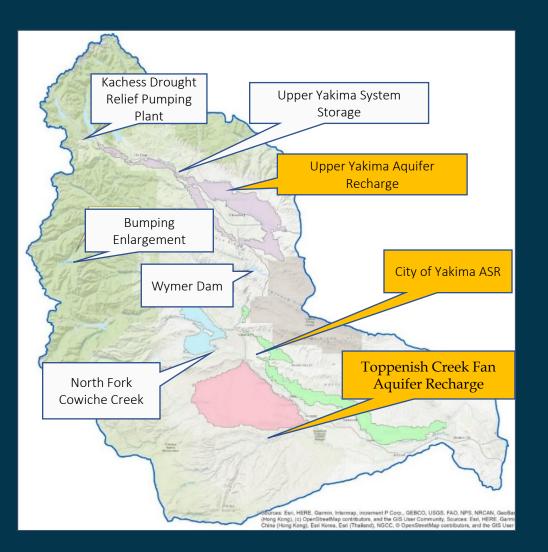
- Canal improvements create more capacity.
- Increase in capacity allows for infrastructure to carry water for:
  - Tributary supplementation
  - Surface/ground water storage

Tucker Creek, Kittitas County

# WATER SUPPLY RELIABILITY - STORAGE

### Water Supply Options

- YBIP Goal: 450,000 acre-feet of new storage.
- Water Supply Framing process underway.
- Range of projects small, large, surface, groundwater.



# **FISHERY**

- Goal: "Self-sustaining harvestable populations"
- Approach:
  - Steelhead Model and sequence YBIP actions to satisfy ESA consultation and YBIP goals
  - Bull trout MOU to implement restoration projects
  - Support non-ESA fish
- Passage, Flows, Habitat



# FISH PASSAGE

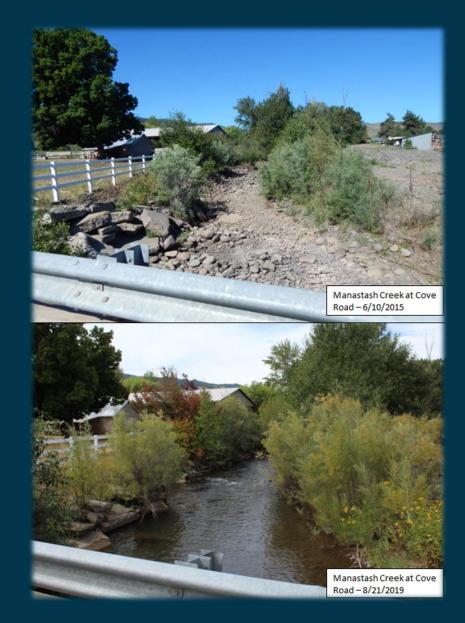
### • Cle Elum

- Completion 2026
- Contracts 1-4 funded, final contract award FY22/FY23
- Clear Creek in design
- Main Stem Yakima Diversions
  - Roza in construction
  - SDBOC interim completed 2021
  - Wapato in design
  - Other lower river diversions TBD
- Nelson Dam
  - Completion 2023
- Bateman Island Corps 1135 project



### FISH FLOWS

- Cle Elum Pool Raise
  - Shoreline stabilization 2026
  - 14,600 AF
- Conservation
  - YRBWEP II
    - 49, 159 AF instream flow
    - 260,000 AF reach-specific instream flow
  - YBIP 21, 513 AF instream flow
- Tributary Re-hydration ongoing/expanding
- IIJA projects in planning
  - Small surface storage projects
  - Managed Aquifer recharge



**Case Study** 

# Cle Elum Dam Fish Passage

- Adult and juvenile passage in process
- \$220M innovative project
- Cost Share Reclamation/WA
- Final contract (adult collection) in construction 2024
- Anticipate operational 2026/27





# Cle Elum Dam Fish Passage – Sockeye Smolts



### HABITAT

- Goal
  - Protect watershed and shrub steppe lands
  - Restore floodplain, river, tributary habitat
  - Forest health fire and water supply
  - Economic support water, fish, recreation
- Approach -
  - Strategic land acquisition
  - Designations
  - Restoration projects



# Yakima Basin Integrated Plan Accomplishments 2013-2024

### Success breeds success

#### Fish Passage

- Complete Construction: Naches, Cle Elum (2026/27)
- Start construction: Roza, Clear Creek
- In design: Tieton,

#### Water Supply Reliability

- Conservation 74,000 acre-feet
- Cle Elum Pool Raise 14,600 acre-feet (in construction)
- Kachess Drought Relief Pumping Plant 200,000 ac-ft (feasibility)
- Groundwater 670 acre-feet
- Springwood 68,000 acre-feet (feasibility)

### • Habitat

- 40+ restoration projects
- 80,000 acres acquired
- Yakama Nation
  - Wapato Irrigation Project Modernization Plan
- \$850M in federal and state funding (\$44 FY24)
- \$38M FY24 WaterSMART funding to YBIP
- \$16M FY24 Inflation Reduction Act



WaterSMART Workshop - November 2022

# YBIP INFRASTRUCTURE "SHOVEL WORTHY" PROJECTS

- Project Types
  - Water Storage
  - Fish passage
  - Habitat
  - Water
    conservation
  - Structural/operati onal



- YBIP Projects FY22-26
  - 96 projects identified
    - Additional projects
      anticipated
  - \$1.237 Billion

## COLLABORATIVE GOVERNANCE

"The processes and structures of public policy decision making and management that engage people constructively across the boundaries of public agencies, levels of government, and/or the public, private and civic spheres in order to carry out a public purpose that could not otherwise be accomplished."

- Conditions essential to whether the collaborative process can be sustained:
  - (1) Environment,
  - (2) Membership characteristics,
  - (3) Process and Structure,
  - (4) Communication,
  - (5) Purpose, and
  - (6) Resources.



# YRBWEP Workgroup Members

- Federal Agencies
  - Bureau of Reclamation
  - National Marine Fisheries
    Service
  - U.S. Fish and Wildlife Service
  - U.S. Forest Service
  - U.S. Army Corps of Engineers
- Yakama Nation
  - Yakama Nation Natural Resources
  - Yakima/Klickitat Fisheries
    Project
- Washington State Agencies
  - Department of Ecology
  - Department of Agriculture
  - Department of Fish and Wildlife
  - Department of Natural Resources

- Local Governments
  - Benton County
  - Kittitas County
  - Yakima County
  - City of Yakima
  - Irrigated Agriculture
    - Kennewick Irrigation District
    - Kittitas Reclamation District
    - Roza Irrigation District
    - Sunnyside Valley Irrigation District
    - Yakima-Tieton Irrigation District
- Other Stakeholders
  - American Rivers
  - Yakima Basin Fish & Wildlife Recovery Board
  - Yakima Basin Storage Alliance
  - Trout Unlimited



#### 15-Year Anniversary – June 2009 to June 2024

*Everyone will get some of what they need, but not everything they want.* 

### Finding Common Ground

COLLABORATIVE LEADERSHIP IN WASHINGTON STATE

A documentary film

#### Synopsis

Finding Common Ground: Collaborative Leadership in Washington State is a documentary film that tells the story of people with diverse interests overcoming differences to resolve some of the most complex conservation challenges in the Pacific Northwest. It's a story about taking conflict out of the courts and into our living rooms and local meeting spaces where people can really connect.



## Thank you!

# Yakima Basin Integrated Plan Partners

