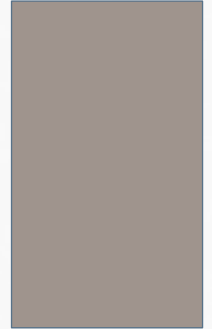


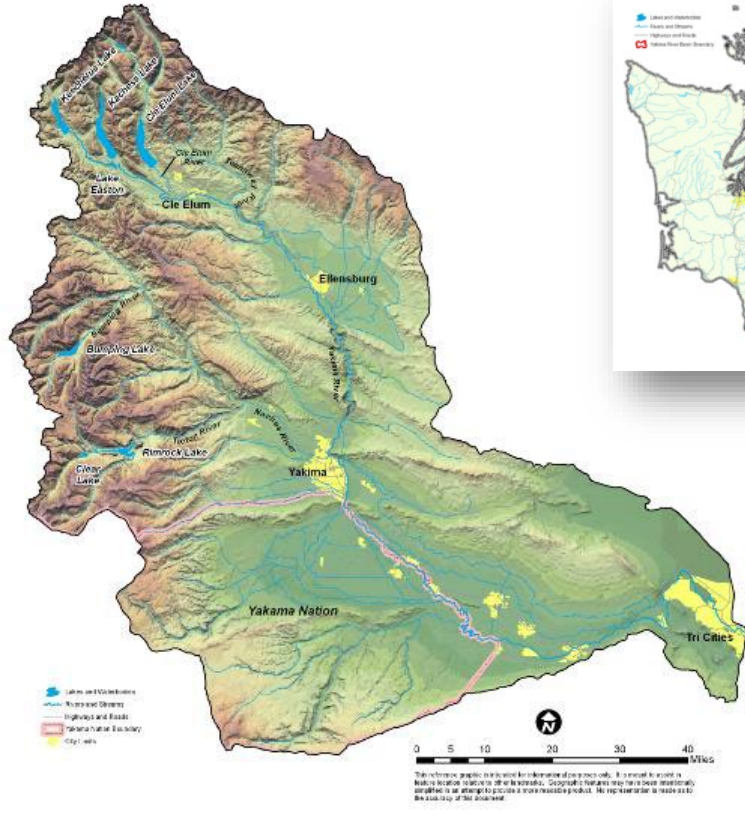
YAKIMA BASIN INTEGRATED PLAN



SCIENCE MANAGEMENT CONFERENCE – JUNE 12, 2024

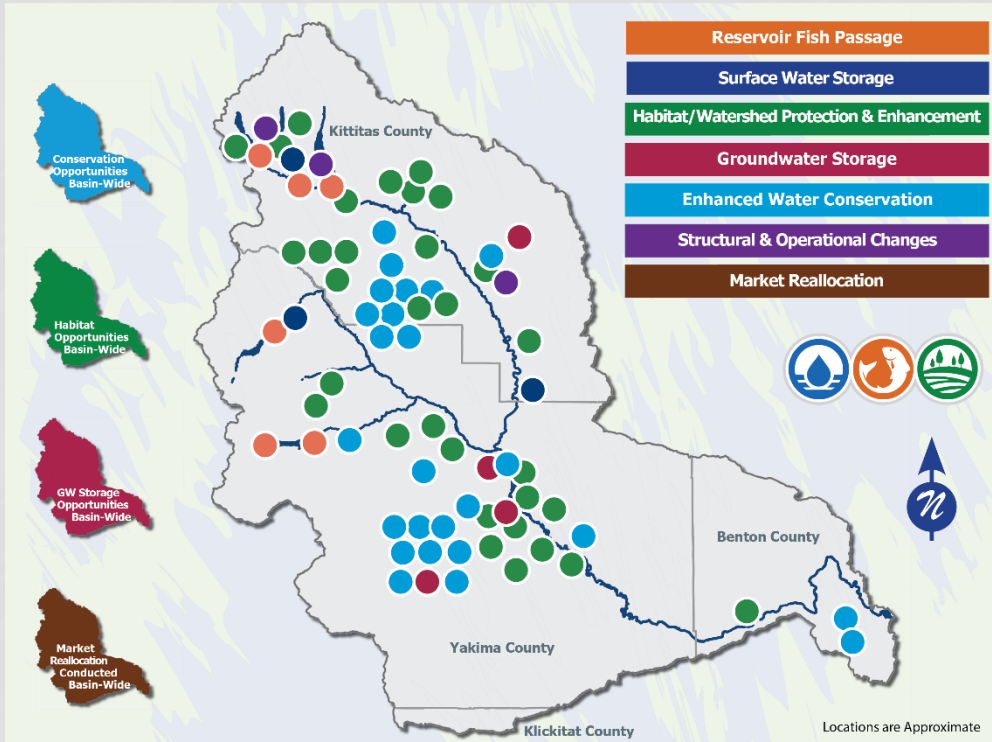


YAKIMA RIVER BASIN OVERVIEW



- 6,155 sq. miles w/ 464,000 irrigated acres
- 5 reservoirs w/ 1M AF capacity, irrigation deliveries 2.3M AF
- \$4.5 Billion agriculture economy
- Historically, second only to Snake River in supporting Columbia Basin salmon and steelhead runs

YAKIMA BASIN INTEGRATED PLAN



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



14-Year Anniversary – June 2009 to June 2023

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

YAKIMA BASIN INTEGRATED PLAN GOALS



- **Reliable Irrigation Supply**
- **Increase Municipal Supply**
- **Restored Fishery** - “Self-sustaining *harvestable* populations”
- **Climate Resilience**
- **Robust Regional Economy**
- **Collaborative Implementation**



YAKIMA BASIN INTEGRATED PLAN STRATEGY



Water Supply Reliability

- Best use of existing supplies
- Storage (surface and groundwater)
- Markets
- Regulatory risk management (ESA)

Fishery Restoration

- Safe Passage (upstream and downstream)
- Flow Improvements
- Habitat Protection and Restoration

Habitat

- Acquisitions (Forest, Riparian, Shrub Steppe)
- Restoration – Mainstem + Tributary
- Forest Management
- Designations

DROUGHT/WATER SUPPLY



- **2024 Water Supply - 54%**
 - YBIP goal - 70% proratable supply
 - Requires conservation, increase storage, better systems
- **Conservation**
 - In process
- **Storage**
 - Planning/modeling in process



10-YEAR SAFE FISH PASSAGE STRATEGY



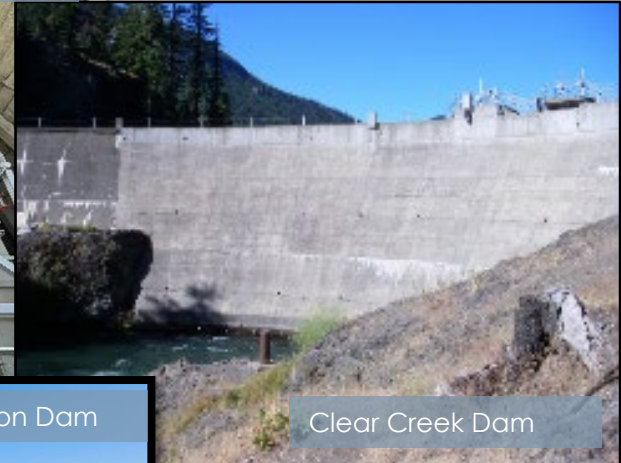
- **Reservoir Passage**

- Cle Elum Dam Fish Passage
- Tieton Fish Passage Complex
 - Clear Creek Dam
 - Tieton Dam
 - S.F. Tieton

- **Lower River Fish Passage Improvements**

- Roza Dam and Diversion
- Wapato Dam and Diversion
- Sunnyside Dam and Diversion
- Prosser/Chandler Dam and Diversion
- Wanawish Dam and Diversion
- Bateman Island
- **Instream Flow Projects**

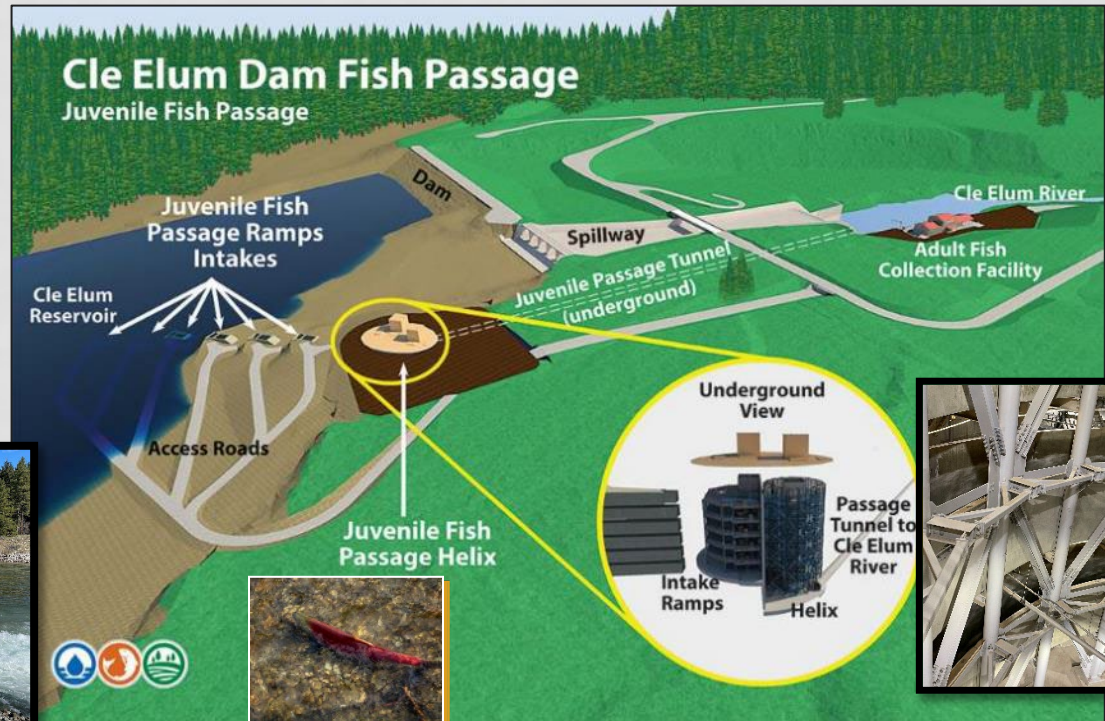
- **Financial Partnership Are Key to Large Infrastructure Projects**



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



CEFP HELIX TESTING APRIL 30, 2024



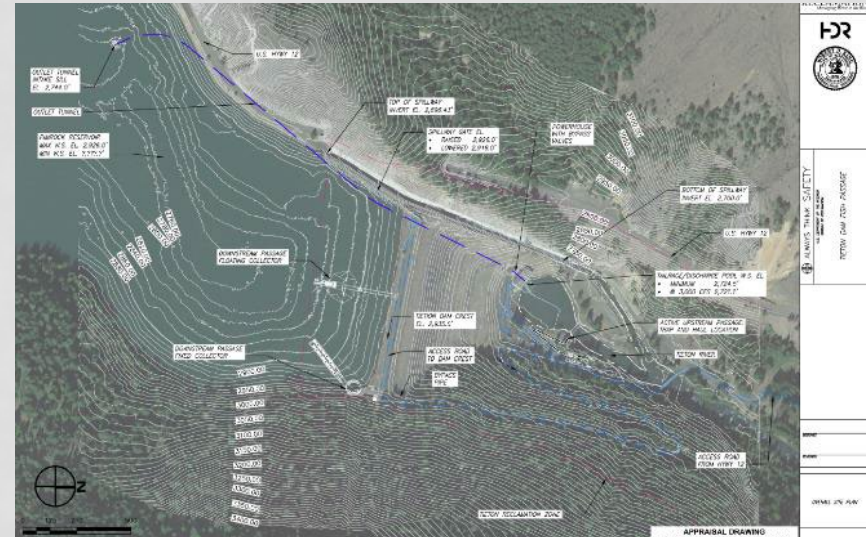
RESERVOIR FISH PASSAGE PROJECTS



- Clear Creek Dam Fish Passage
 - Construction anticipated FY25 – FY27



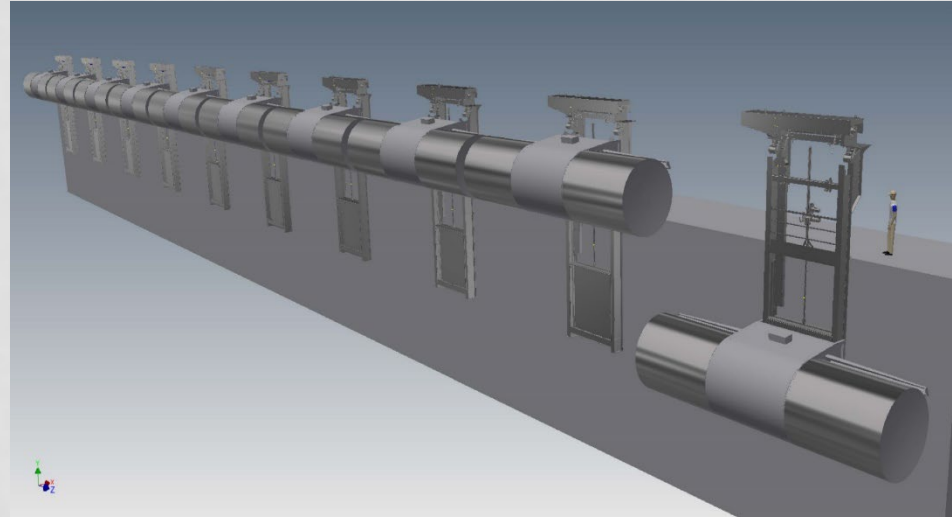
- Tieton Dam Fish Passage
 - Construction anticipated FY26 – FY30



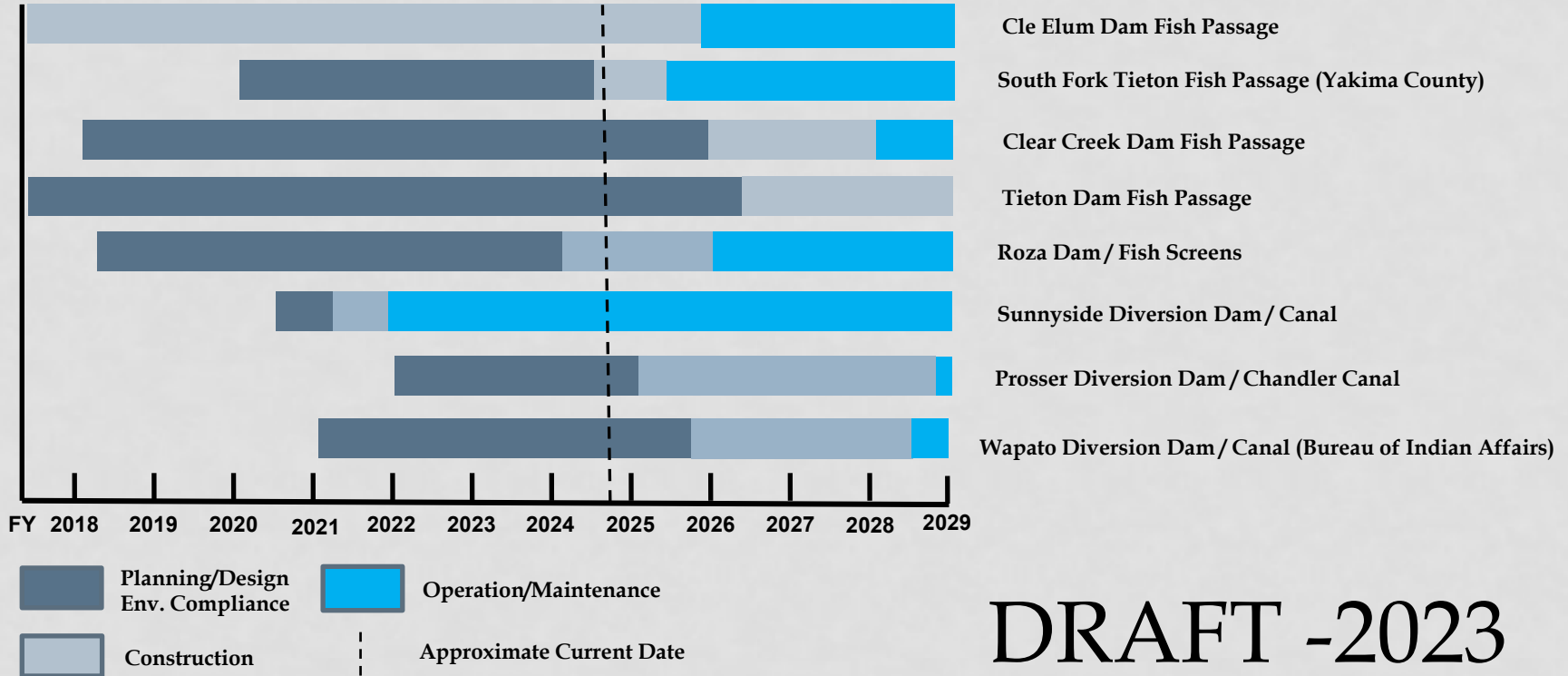
ROZA FISH SCREENS



- Construction Starting in October 2024
- Construction Completion in March 2026.



FISH PASSAGE FACILITIES OVERVIEW SCHEDULE



DRAFT -2023

SALMON REINTRODUCTION & BULL TROUT RESTORATION



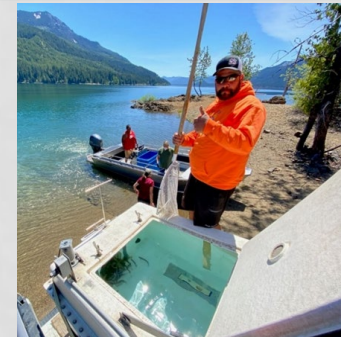
Sockeye Reintroduction



| Year | Bonneville Count | Trap & Haul to Cle Elum | Cle Elum Returns |
|------|------------------|-------------------------|------------------|
| 2009 | 177,823 | 1,000 | |
| 2010 | 386,525 | 2,500 | |
| 2011 | 185,796 | 4,000 | |
| 2012 | 515,673 | 10,000 | |
| 2013 | 185,505 | 4,500 | 703 |
| 2014 | 614,179 | 10,000 | 2653 |
| 2015 | 510,706 | 10,000 | 300 |
| 2016 | 342,498 | 10,000 | 4600 |
| 2017 | 87,693 | 1,000 | 100 |
| 2018 | 193,816 | 4,600 | 500 |
| 2019 | 63,046 | 0 | 200 |
| 2020 | 341,739 | 10,000 | 3,500+ |
| 2021 | 151,756 | 2,700 | 200 |



| <u>Kachess River</u> | | | |
|----------------------|-----------------|-------------|----------|
| YEAR | YOY Transferred | Released | Survival |
| 2019 | 1162 | 152 | 13% |
| 2020 | 596 | 531 | 89% |
| 2021 | 483 | 466 | 96% |
| 2022 | 0 | 0 | n/a |
| 2023 | 107 | | |
| Total Fish | 2348 | 1149 | |

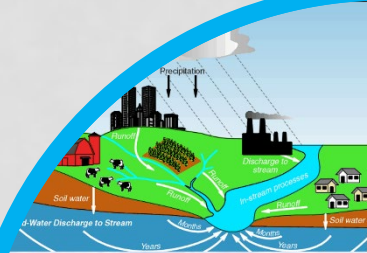


Bull Trout Restoration



BUREAU OF RECLAMATION LOWER YAKIMA RIVER PROJECTS

Nutrient Loading
and Water Quality



Predation and
Invasive Species



Diversions and
Associated Facilities



YAKIMA DELTA



Yakima River Delta is a Chokepoint!

- Every salmon and steelhead must pass through this area twice in their lifecycle
- 100s' of millions of dollars in fish passage & habitat restoration being invested
- USACOE Feasibility due late 2024



YBIP INFRASTRUCTURE BIL “SHOVEL WORTHY” PROJECTS



• Project Types

- Water storage
- Fish passage
- Habitat
- Water conservation
- Structural/operational

• YBIP Projects

FY22-26

- 96 projects identified
- \$1.237 Billion



*Kittitas Reclamation District South Branch Canal
March 2024*

Results

- 14 Awards, \$45M
 - Gold Creek – USFWS \$5M/USBR \$2.47M
 - Upper Yakima NRCS RCPP \$17.8M
 - Kachess River – USFS \$800k
 - Bateman/Prosser- NOAA \$3.6M
 - Toppenish –NOAA \$1.2M, USFWS \$1.6M, USBR \$3.2M
 - Bull Trout – USFWS \$83k
 - Aquatic Ecosystem - USBR 4 totaling \$7M for YN
 - Water Resources /Ecosystem – USBR 4 totaling \$8.3M, KR D \$3M
- 2024 Proposals: 8 in review, 20 anticipated

YAKIMA BASIN INTEGRATED PLAN ACCOMPLISHMENTS 2013-2024



- **Fish Passage**
 - Completed: Sunnyside interim, Nelson
 - In construction: Cle Elum, Roza, Clear Creek (2025)
 - In design: Tieton, Bateman Island, Wapato, Prosser, Wannawish
- **Water Supply Reliability**
 - 74,000 acre-feet conserved/in progress
 - Cle Elum Pool Raise - water right issued 2024
 - Kachess Drought Relief Pumping Plant in review
 - Groundwater - ASR, 2 pilots
 - Springwood Site acquisition
- **Habitat**
 - 40+ restoration projects
 - 80,000 acres acquired
- **Yakama Nation**
 - Wapato Irrigation Project Modernization Plan
- **\$750M in federal and state funding**



THANK YOU!



Questions?

Website: www.yakimabasinintegratedplan.org