

Welcome to the Walla Walla District

Industry Day

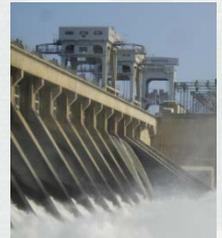
13 October 2016

Major Ian Davis
District Deputy Commander



Agenda

- District Overview
- 2017 Navigation Lock Outage
- Environmental Stewardship



Walla Walla District Overview

Mission: The Walla Walla District operates and maintains multi-purpose infrastructure assets, and plans and executes engineering and water resource services across the Inland Northwest and the Nation to safely maximize public and environmental benefits.

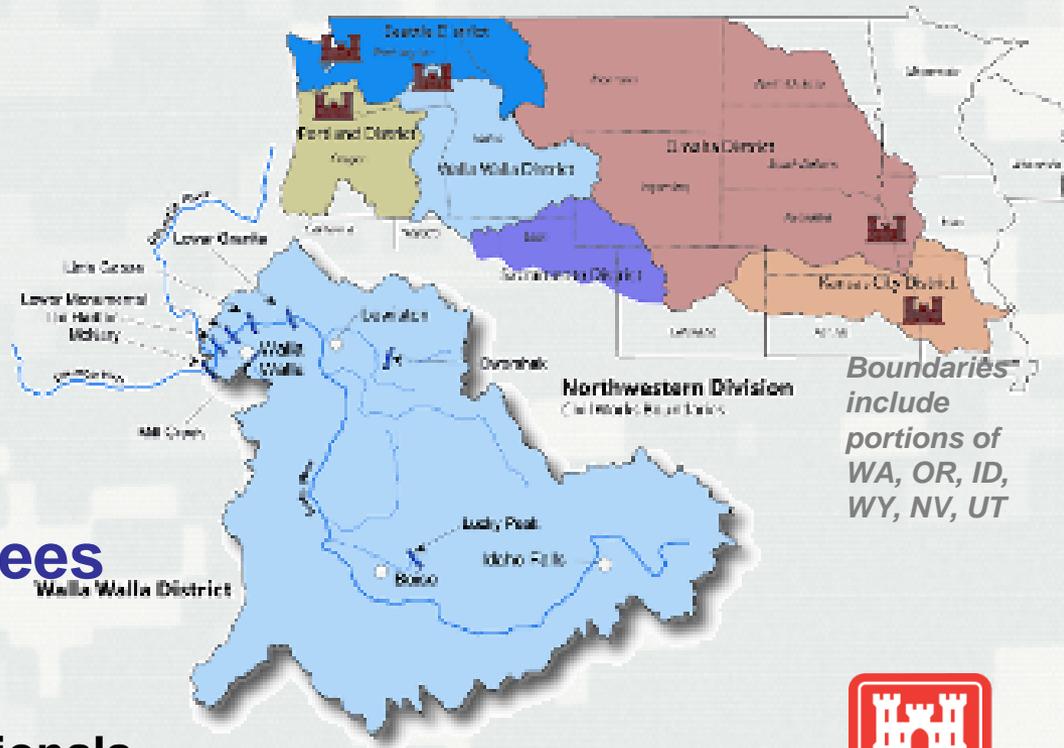
Civil Works District

- ▶ Support to the Nation
- ▶ Flood Risk Management
- ▶ Hydropower
- ▶ Navigation
- ▶ Environmental
- ▶ Recreation

Business Lines

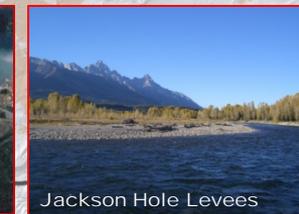
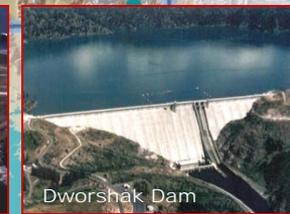
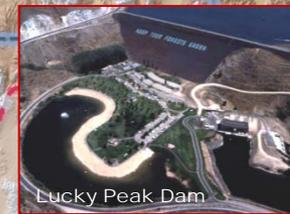
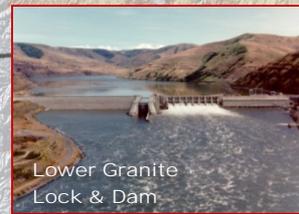
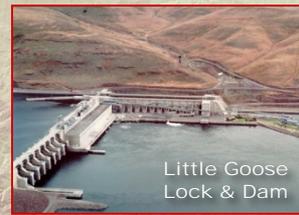
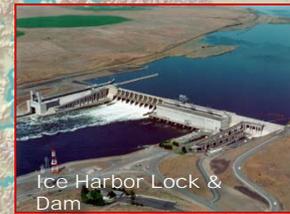
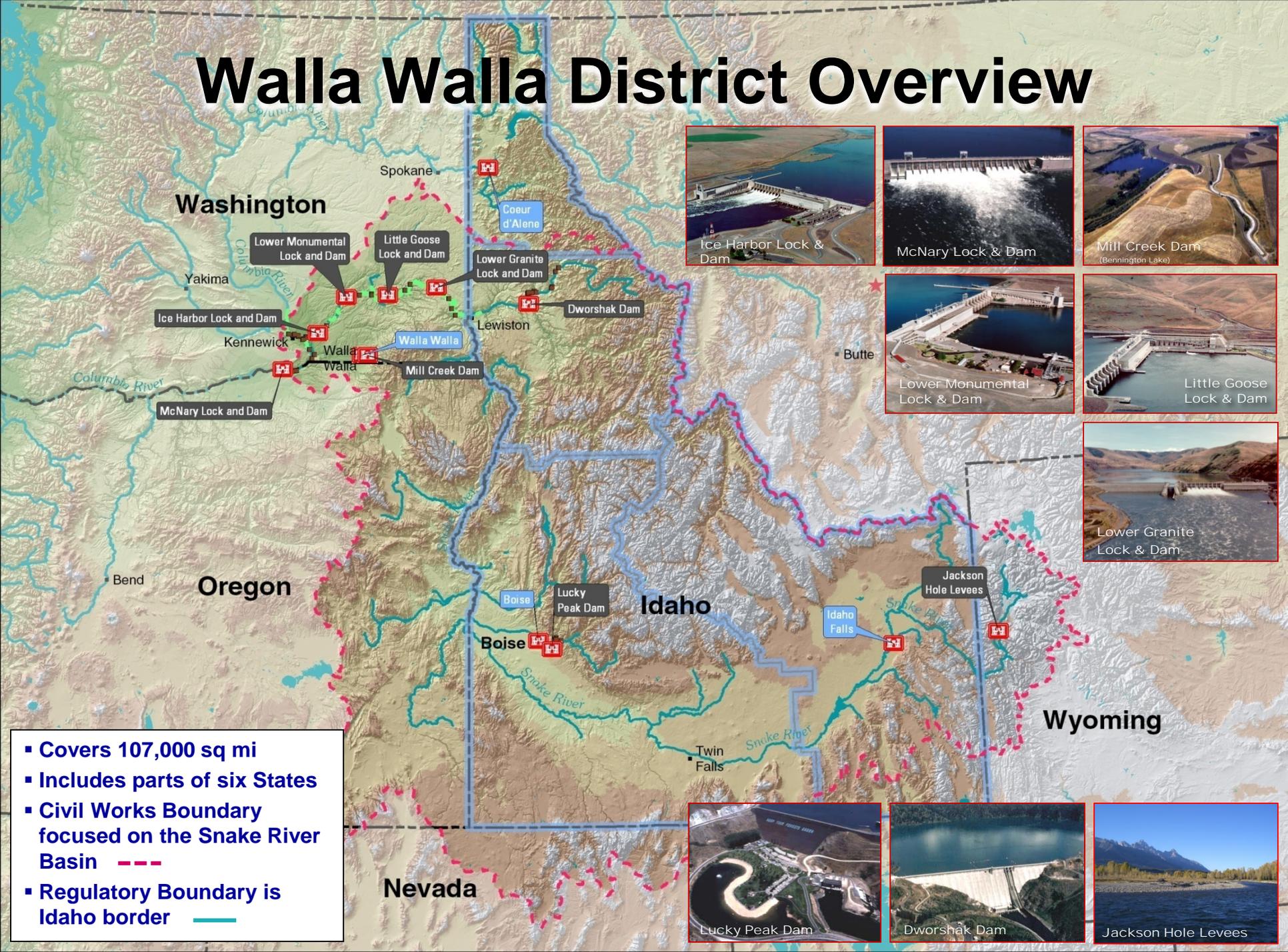
Workforce: 870 Employees

- ▶ 2 Military Officers
- ▶ 150 Engineers
- ▶ 113 Registered Professionals
- ▶ 270 Wage Grade Employees



BUILDING STRONG®

Walla Walla District Overview



- Covers 107,000 sq mi
- Includes parts of six States
- Civil Works Boundary focused on the Snake River Basin ---
- Regulatory Boundary is Idaho border —

Walla Walla District Overview

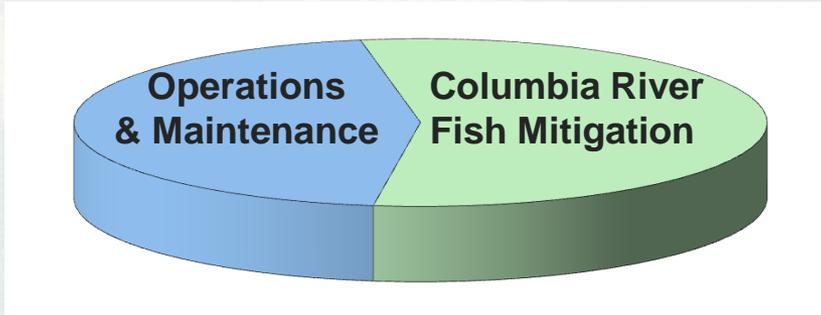
Operate and Maintain \$2.5 Billion of infrastructure assets consisting of:

- ▶ **Hydropower Facilities**
- ▶ **Navigation Facilities**
- ▶ **Flood Risk Reduction Reservoirs**
- ▶ **Levee Systems**
- ▶ **Recreation Sites**
- ▶ **Environmental Mitigation**



BUILDING STRONG®

Fish Program



\$50M - \$70M annually



Fish Ladders



Fish Counting



Transportation Program



Fish Collection



Fish Hatcheries



Fish Screens



Spill



Removable Spillway Weir



BUILDING STRONG®

Serving the Nation

Overseas Contingency Operations

- 277 completed deployments to Iraq & Afghanistan support National goals and the Army's mission
- Supporting Coalition Forces by Inspecting dams, revitalizing oil industry, restoring electricity, rebuilding bridges, hospitals, schools and infrastructure



Emergency Management

- Floodfight training for communities
- Floodfight cadre to support communities during flooding
- Disaster Assistance (ICW FEMA) - one of the Corps' seven Power Teams



BUILDING STRONG®

Flood Risk Management

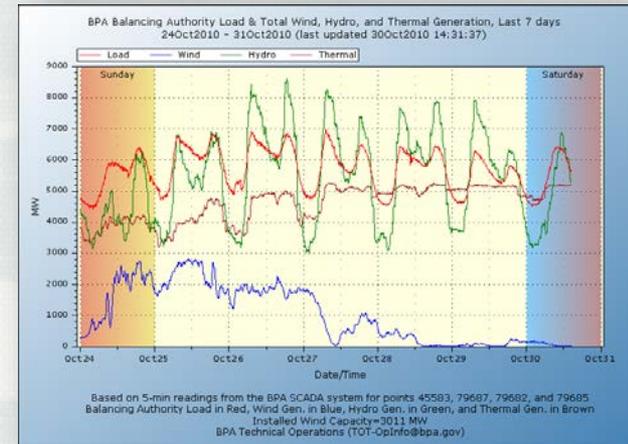
- **Flood Risk Management**
 - ▶ **Flood Risk Reduction projects**
 - Dworshak
 - Lucky Peak
 - Mill Creek
 - Jackson Hole Levees
 - ▶ **District efforts prevented over \$600 million in flood damage**
 - Use of exclusive flood control space of Sec. 7 Dams in ID, and cooperation with BoR and ID Power prevented flood damages
- **PL 84-99 Levee Rehab & Inspection Program**
- **Studies and projects for additional flood risk reduction**



BUILDING STRONG®

Hydropower

- **USACE/Corps of Engineers**
 - ▶ Owns and operates 24% of US capability
 - ▶ 21,000 megawatts, 3% of US electrical capacity
 - ▶ Can power over 10 million homes annually
- **Northwestern Division**
 - ▶ Provides 75% of Corps' hydropower
 - ▶ Provides ~35% of region's electrical energy
- **Walla Walla District**
 - ▶ Operates and maintains six facilities providing 21% of USACE's capability
 - ▶ 4,400 MW production capacity
 - ▶ NWW produces over 25% of residential electricity used for WA, OR & ID. Market value ~ \$286 million
- **Hydropower Facts**
 - ▶ Sustainable energy source, not officially classified as "Green"
 - ▶ Flexible start/stop allows for a balance of regional energy production and wind integration



BUILDING STRONG®

Natural Resources

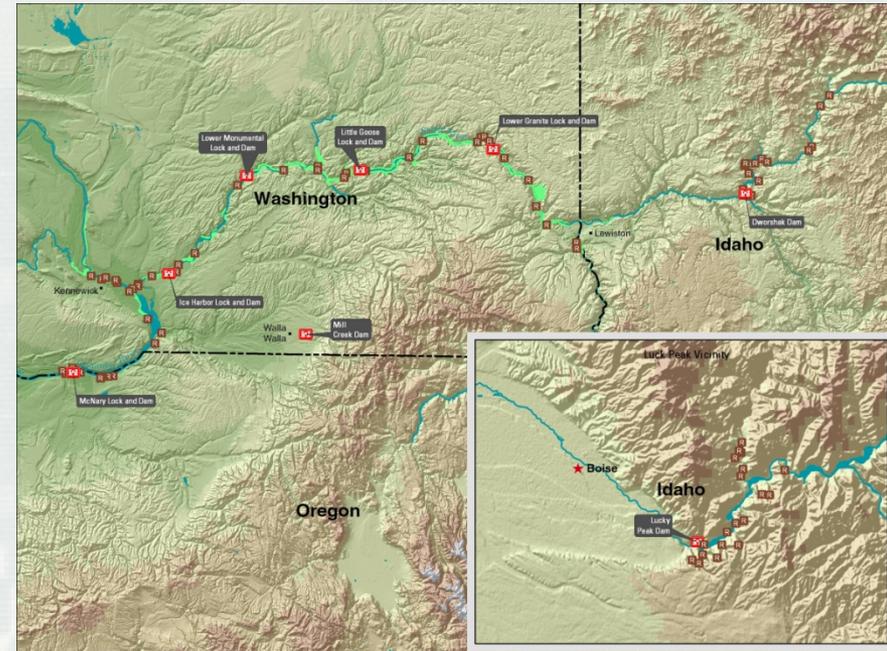
Recreation, Habitat Management, & Mitigation

USACE

- ▶ Annual visitation: 370M (higher than US Park Service)

Walla Walla District

- ▶ Operates eight reservoirs and associated shorelines (833 miles)
- ▶ Total Project Areas: 173,847 acres
- ▶ Total Water Area: 98,453 acres
- ▶ Recreation areas: 73 (34 leased to states & private rec. companies)
 - Annual visitation: over 8M
 - Economic Impact: \$125M
 - Local revenue generated: \$250M
 - Annual Volunteers: 323
- ▶ Mitigation
 - Habitat Management Units (riparian habitat, feeding areas, and hunting): 111
 - Hatcheries: operate & maintain one hatchery with USFWS and Nez Perce Tribe



BUILDING STRONG®

Water Resources

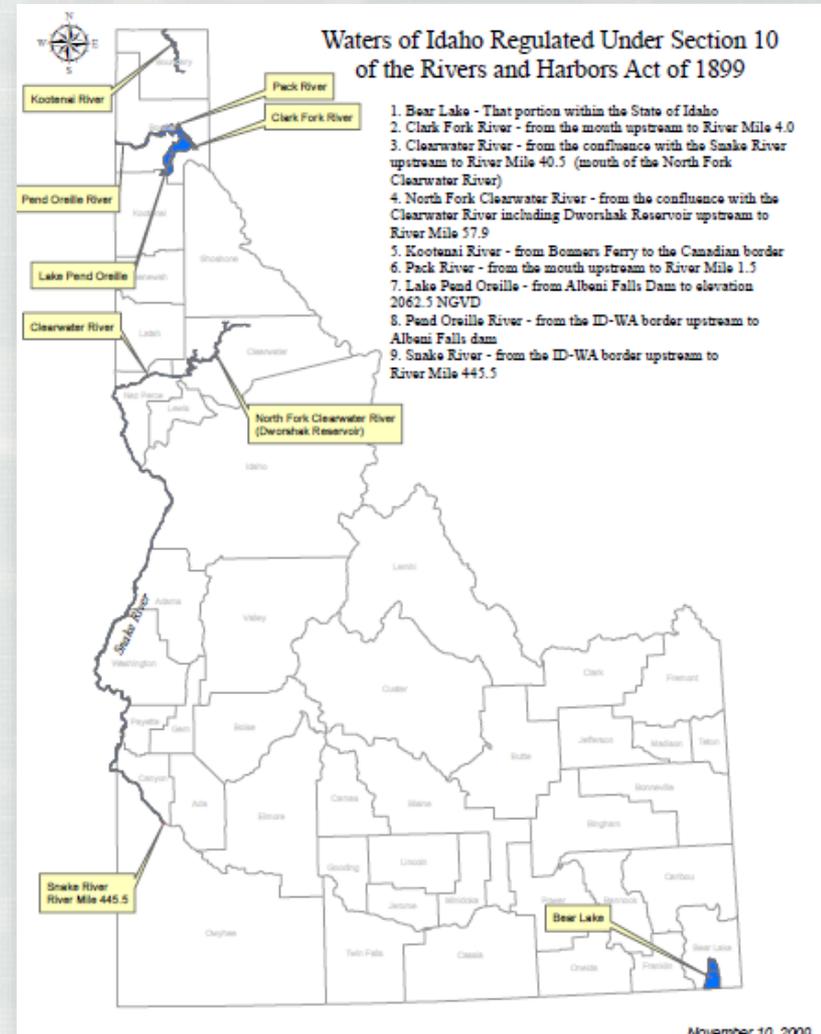
Regulatory

- Administers and enforces Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act within Idaho boundaries

- Works closely with Idaho transportation department and other state agencies.
- Permit required for work in navigable waters of the United States.
- Permit required for the discharge of dredge/fill material into these waters.

- Compliance and mitigation

- Nationwide permits
- Individual permits
- Emergency permits
- Enforcements



Key Relationships

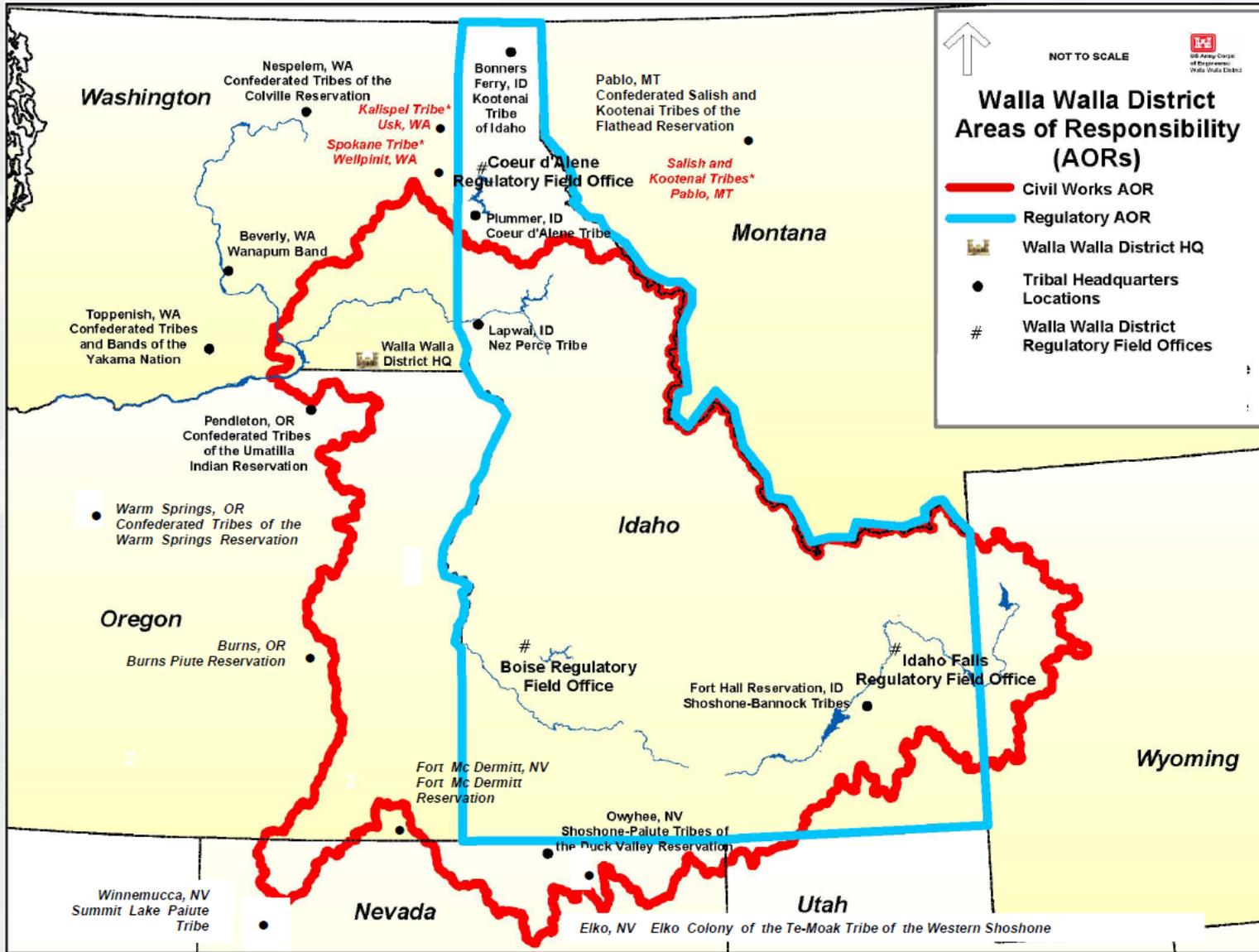
Partners, Stakeholders, & Customers

- **Public**
- **Eight Federally Recognized Tribes**
- **Federal Agencies**
 - ▶ **Bonneville Power Administration (BPA)**
 - ▶ **National Oceanographic and Atmospheric Administration**
 - ▶ **Federal Emergency Management Agency**
 - ▶ **Bureau of Reclamation**
 - ▶ **U.S. Fish & Wildlife**
 - ▶ **Bureau of Land Management**
- **State & Local Governments**
- **Regional Businesses**
 - ▶ **Ports, Flood Control Districts**
 - ▶ **Pacific Northwest Waterways Association**
 - ▶ **Columbia River Tow Boat Association**
 - ▶ **Cruise Lines**
- **Environmental Groups**



BUILDING STRONG®

Tribal Relationships



Navigation



- **USACE**

- ▶ Operates and maintains 12,000 miles of commercial inland navigation channels

- **Walla Walla District**

- ▶ Maintains 173 miles of the navigable waterway from Umatilla, OR to Lewiston, ID
- ▶ Operates and Maintains five navigation locks on the Snake and Columbia Rivers (some of the highest head locks in the world)

- **Navigation Facts:**

- ▶ Authorized to maintain a 14' navigation channel in designated waterways
- ▶ 10 million tons* of commodities annually shipped through the Snake and Columbia River locks - over \$2 billion value



Note: 10 million tons equals about 2,100 barges, 100,000 railcars, or 383,000 semi-trucks



BUILDING STRONG®



2017 Long-Term Navigation Outage



- December 12 2016 – March 20 2017
- All Columbia River and Snake River Dams
- Major Maintenance
 - Navigation lock gates
 - Control systems



BUILDING STRONG®

FY17 Columbia-Snake River System Extended Navigation Lock Outage

Walla Walla and Portland Districts have scheduled a 14-week-long navigation lock maintenance outage to conduct critical repairs and maintenance.

- ▶ Annual routine maintenance outages are typically 2-3 weeks
- ▶ Prioritization of requirements used a risk-informed, systems approach
- ▶ Early communication with Stakeholders is critical in minimizing impacts to the region

All 8 locks are currently scheduled to close Dec. 12, 2016, through March 20, 2017

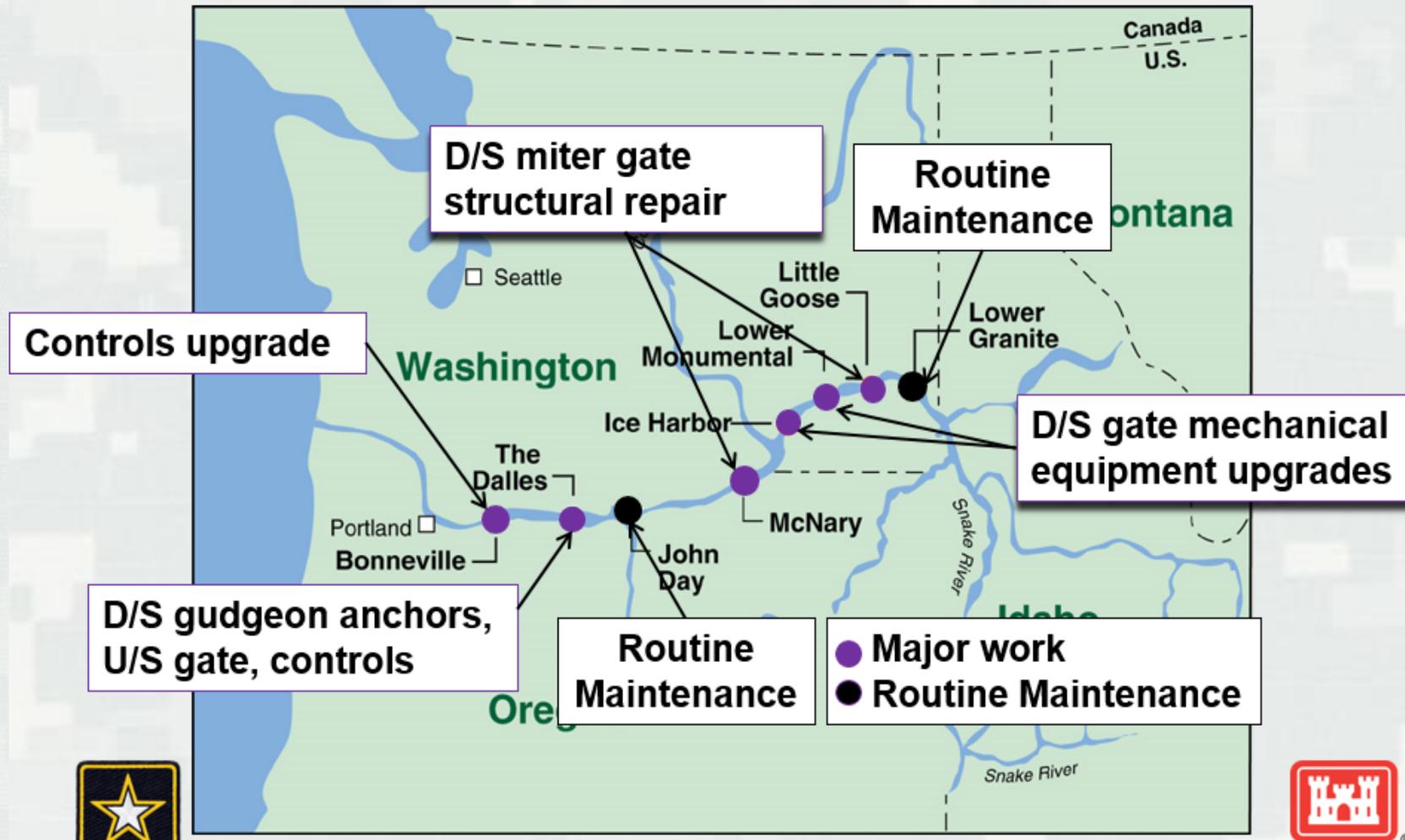
- ▶ 4 locks require the entire outage period to complete:
The Dalles, Ice Harbor, Lower Monumental and Little Goose.
- ▶ Bonneville and McNary also have critical work being planned; work schedule is being developed.



BUILDING STRONG®

CSRS Extended Lock Outage

12 Dec 2016 – 20 Mar 2017



McNary Downstream Miter Gate Repairs

■ Scope:

- ▶ Structural crack repairs
- ▶ Gudgeon line boring and pin replacement
- ▶ Replacement of bottom seal
- ▶ Replacement of timber fenders and fenders

■ Status:

- ▶ Bids opened 23 September 2016
- ▶ Construction contract awarded to Marine Industrial Construction, LLC
 - Contract award date: 28 September 2016
 - Amount: \$505,800.00



BUILDING STRONG®

Ice harbor downstream gate machinery replacement

- **Scope: Upgrade the downstream lift gate machinery to include:**
 - ▶ Replace machinery and controls
 - ▶ Replace the bull gear ring
- **Status:**
 - ▶ Construction contract awarded to Knight Construction
 - Contract award date: 8 January 2016
 - Amount: \$4,698,500
 - ▶ Gearboxes on site
 - ▶ Contractor on site Aug-mid Sep for pre-outage work. Returning Nov for OH crane prep work



BUILDING STRONG®

Lower Monumental downstream gate machinery replacement

- **Scope:** Upgrade the downstream lift gate machinery to include:
 - ▶ Replace machinery and controls
 - ▶ Repair the sheave
- **Status:**
 - ▶ Construction contract awarded to Knight Construction
 - Contract award date: 25 January 2016
 - Amount: \$3,371,100
 - ▶ Gearboxes on site
 - ▶ Contractor began on-site work 19 September 2016 for Pre-Outage activities.



BUILDING STRONG®

Little Goose downstream gate repairs

- **Scope: Conduct critical structural repairs to the downstream miter gate**
 - ▶ Structural repairs
 - ▶ Gudgeon and pintle replacement
 - ▶ Quoin and miter seal repairs
- **Status:**
 - ▶ Construction contract awarded to Dix Corporation
 - Contract award date: 9 May 2016
 - Amount: \$2,186,395
 - ▶ Gudgeon arm and pintle assembly on site, contractor mobilization anticipated late November 2016.



BUILDING STRONG®

Lower Granite navigation system repairs

- **Scope:** Conduct critical repairs to the Navigation system to include:
 - ▶ Replace U/S Gate wire rope
 - ▶ Replace damage miter gate timbers
 - ▶ Install new fill/drain valve hydraulic cylinders
- **Status:**
 - ▶ Materials on site or on order with delivery prior to 12 December
 - ▶ In-house staff in preparation stage



BUILDING STRONG®

FY17 Columbia-Snake River System Extended Navigation Lock Outage

The Corps continues to work closely with key stakeholders to enable them to plan ahead

News releases, fact sheets, stakeholder updates and more are available on the Corps' FY17 Lock Outage webpage:

www.nww.usace.army.mil/Missions/Navigation/FY17LockOutage.aspx

Sign up for email updates

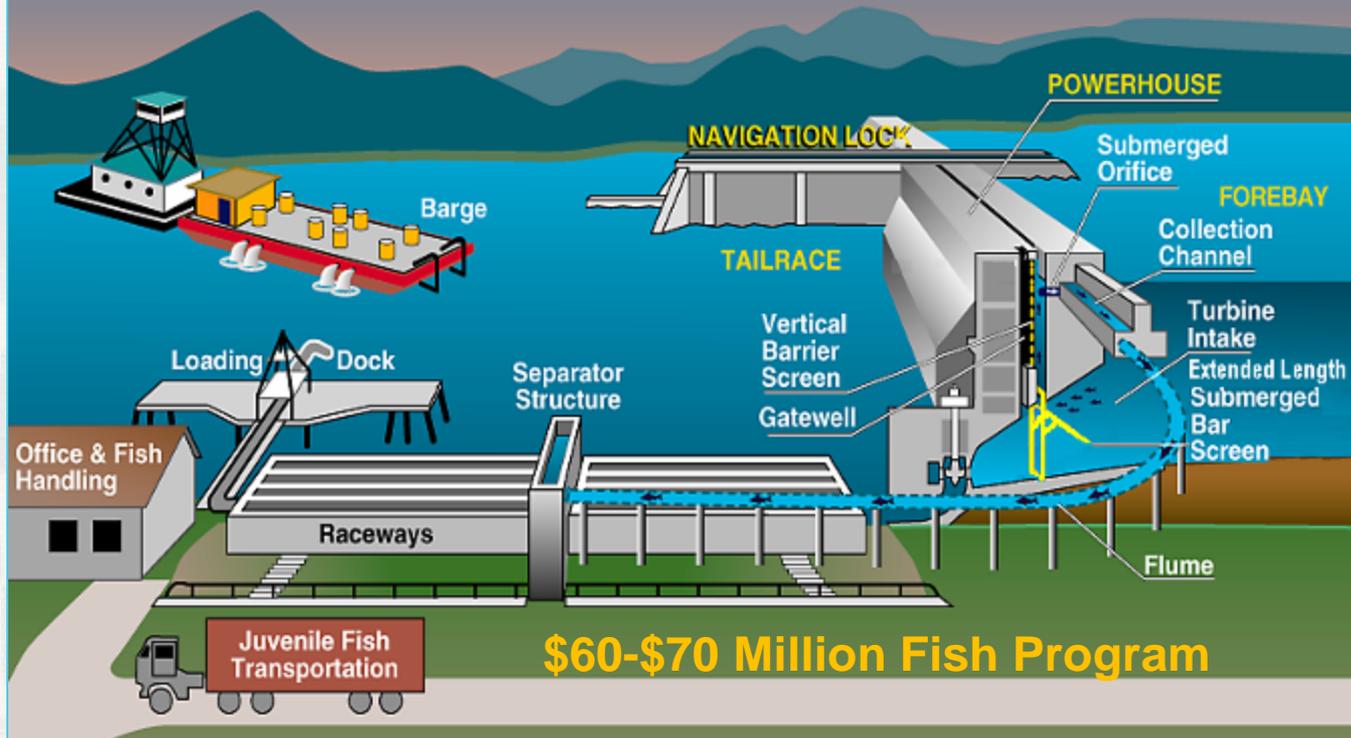
FY17LockOutage@usace.army.mil



Environmental Stewardship

Juvenile Fish Passage – Our Unique Strength

Some of the most effective fish passage dams in the world
Juvenile Fish Collection System

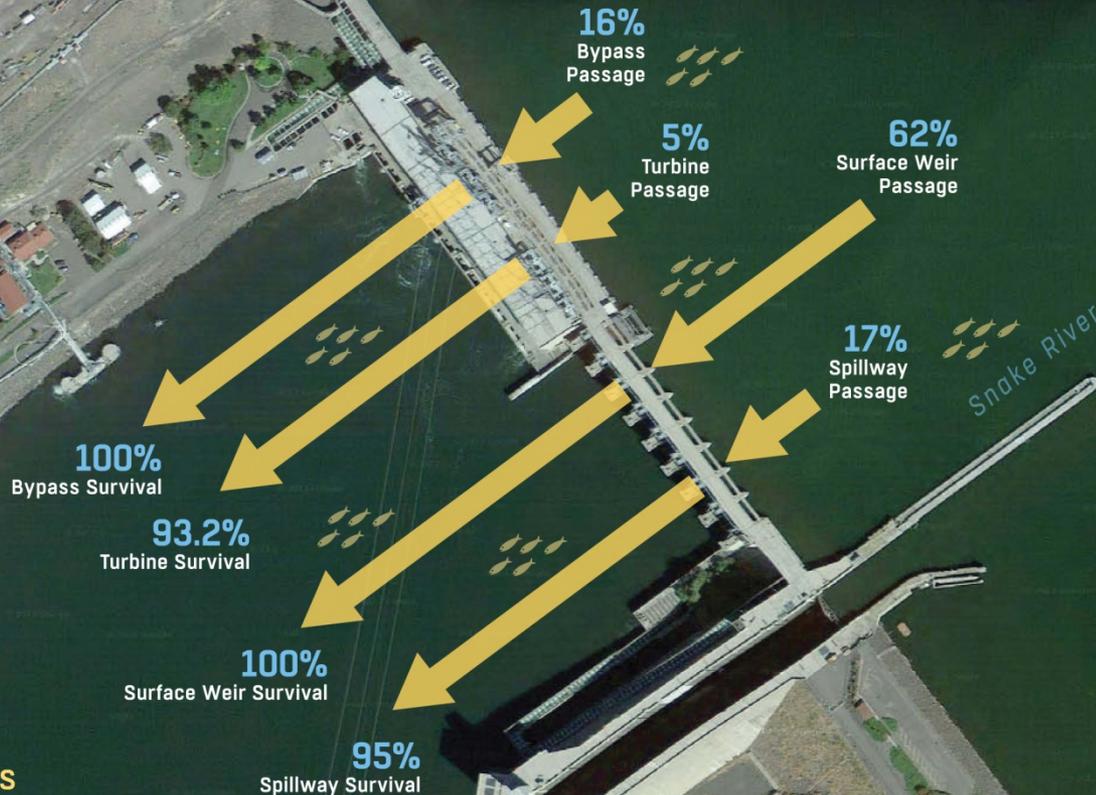


**Innovative solutions
 Salmon & Lamprey
 Passage to minimize
 stress & delay & offer
 better outcomes**

- **Weirs**
- **Collection**
- **Monitoring**
- **Screens**
- **Turbine Design**
- **Water Temp**



BUILDING STRONG®



All projects are on track to meet the BiOp performance standards of 96 percent survival for spring migrating fish and 93 percent survival for summer migrants.



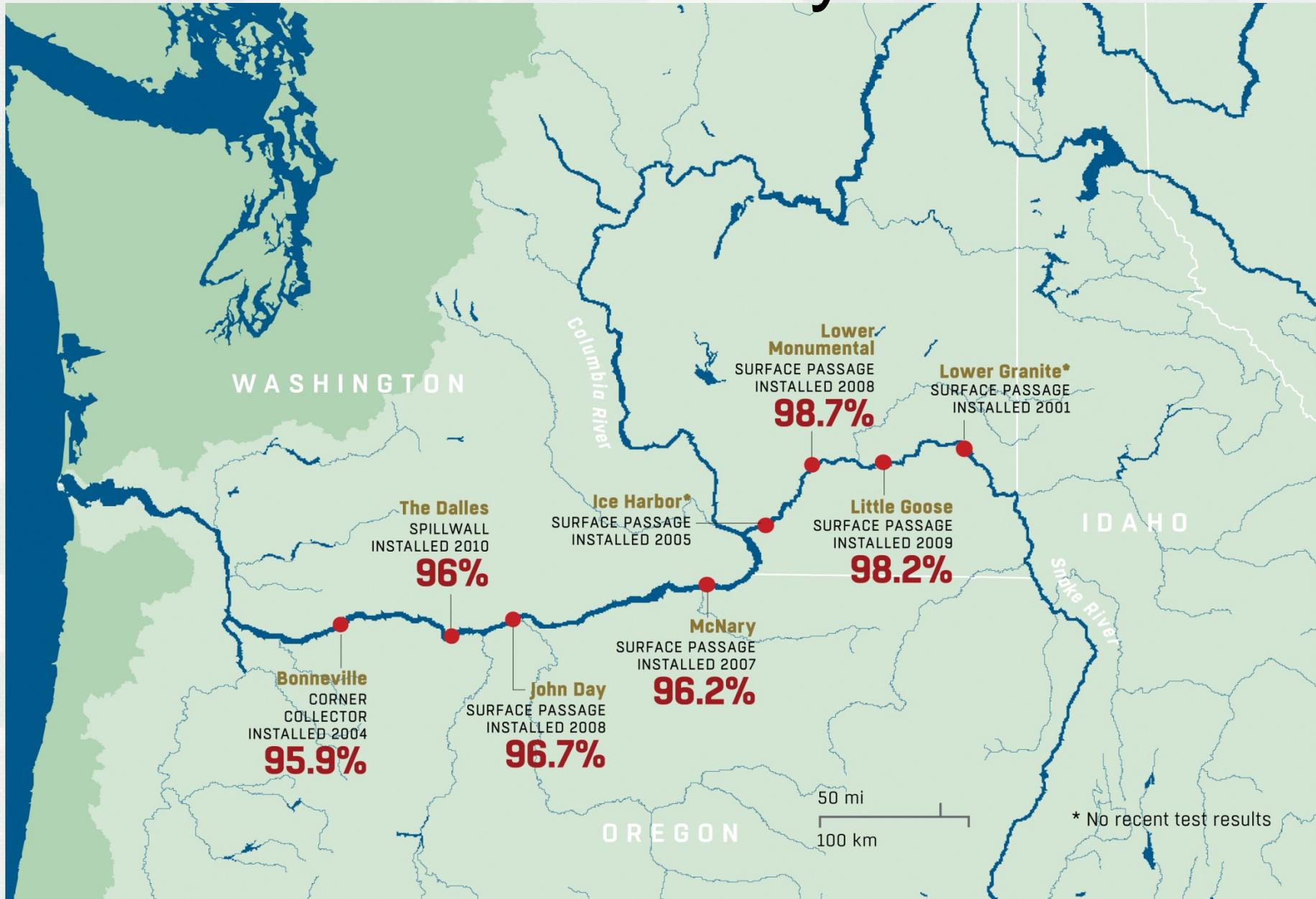
Lower Monumental Dam Yearling Chinook 2012 Passage and Survival Estimates

98.7%

OVERALL DAM SURVIVAL

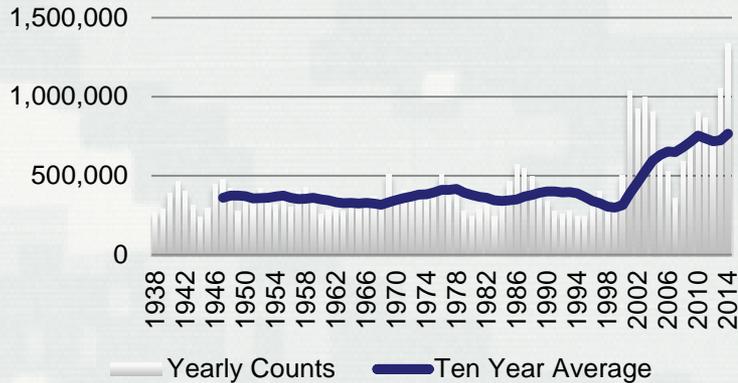
Juvenile fish pass dams by many routes: through turbines, juvenile bypass systems, spillways, or by collection and transport in barges or trucks downstream. Performance standard testing at Lower Monumental Dam in 2012 estimated overall survival for juvenile spring Chinook at 98.7 percent. The BiOp performance standard is 96 percent average per-dam survival for spring Chinook.

Fish Survival by Dam



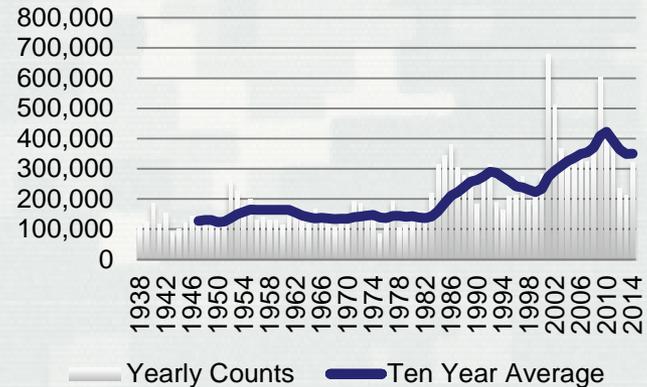
Bonneville Dam

Chinook



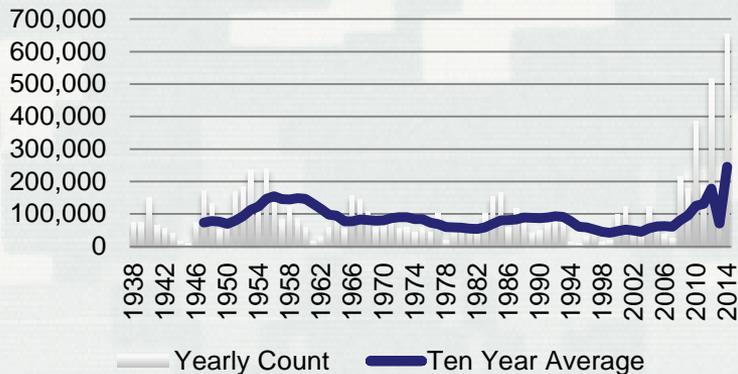
Fact: 2014 was highest Chinook salmon return since 1938

Steelhead



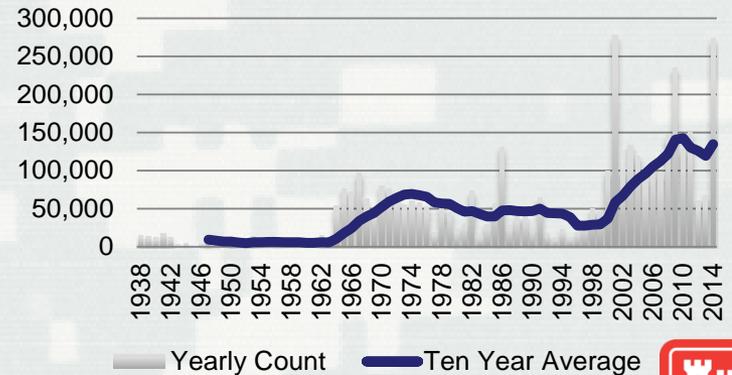
Fact: Steelhead returns appear to be recovering from dip during 2012-2013, but below 10 yr average

Sockeye



Fact: 2014 was a record return of sockeye since 1938

Coho



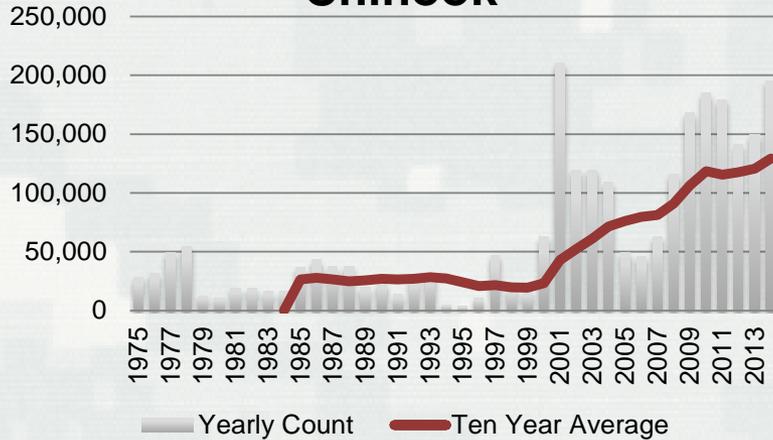
Fact: 2nd highest run of coho since 1938



BUILDING STRONG®

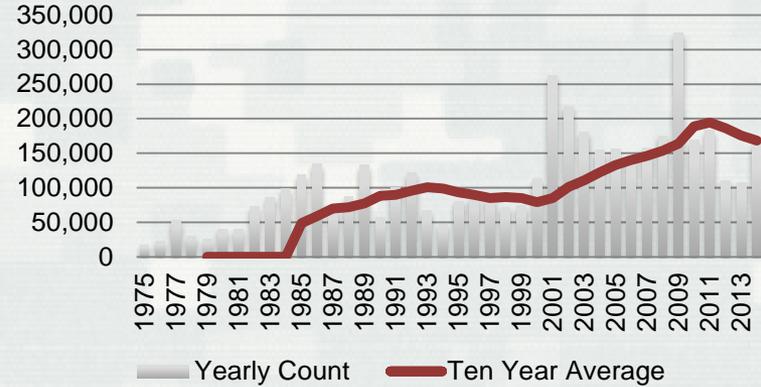
Lower Granite Dam

Chinook



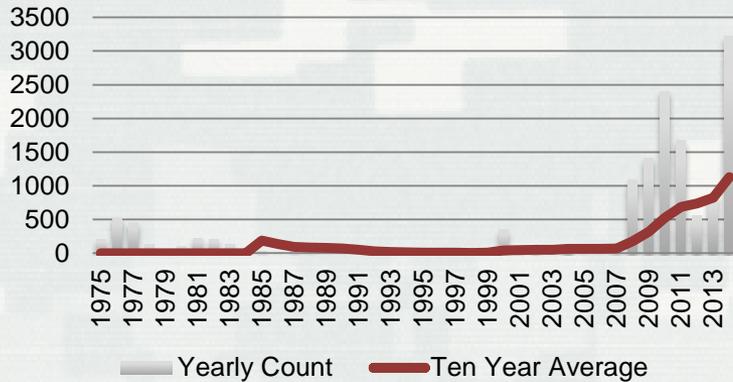
Fact: 2nd highest chinook run since construction of Lower Granite dam

Steelhead



Fact: Increase over previous two years, similar to 2010; just below 10 yr average

Sockeye



Fact: 2014 was the highest return since construction of Lower Granite

Coho



Fact: 2014 was the highest return since construction of Lower Granite



Value to the Nation

Lower Snake River Facts

- For the past six years these 4 dams generated about \$200 million annually in electricity yearly.
 - ▶ That can power a city the size of Seattle
- These dams also help move 3.5 million tons of cargo, worth \$1.5 billion, to regional markets like Lewiston-Clarkston and TriCities.
- 2.8 million visitors a year enjoy recreation opportunities provided by these dams, which in turn generate about \$87 million in visitor spending for local businesses.

These dams provide outstanding value to the American people.



Point of Contact Information

Small Business Deputy – James R. Glynn

Phone: 509-527-7434

Email: James.Glynn@usace.army.mil or CENWW-SB@usace.army.mil

Walla Walla District Small Business:

<http://www.nww.usace.army.mil/BusinessWithUs/SmallBusiness.aspx>

Walla Walla District: <http://www.nww.usace.army.mil>

Walla Walla District Solicitations: <https://www.fbo.gov>

Keyword/Solicitation #: **W912EF**

Facebook: <https://www.facebook.com/wallawallacontracting>



BUILDING STRONG®

