

WILLAMETTE FISHERIES SCIENCE REVIEW 2020

COL Aaron L. Dorf
Commander
Portland District

February 11, 2020



U.S. ARMY



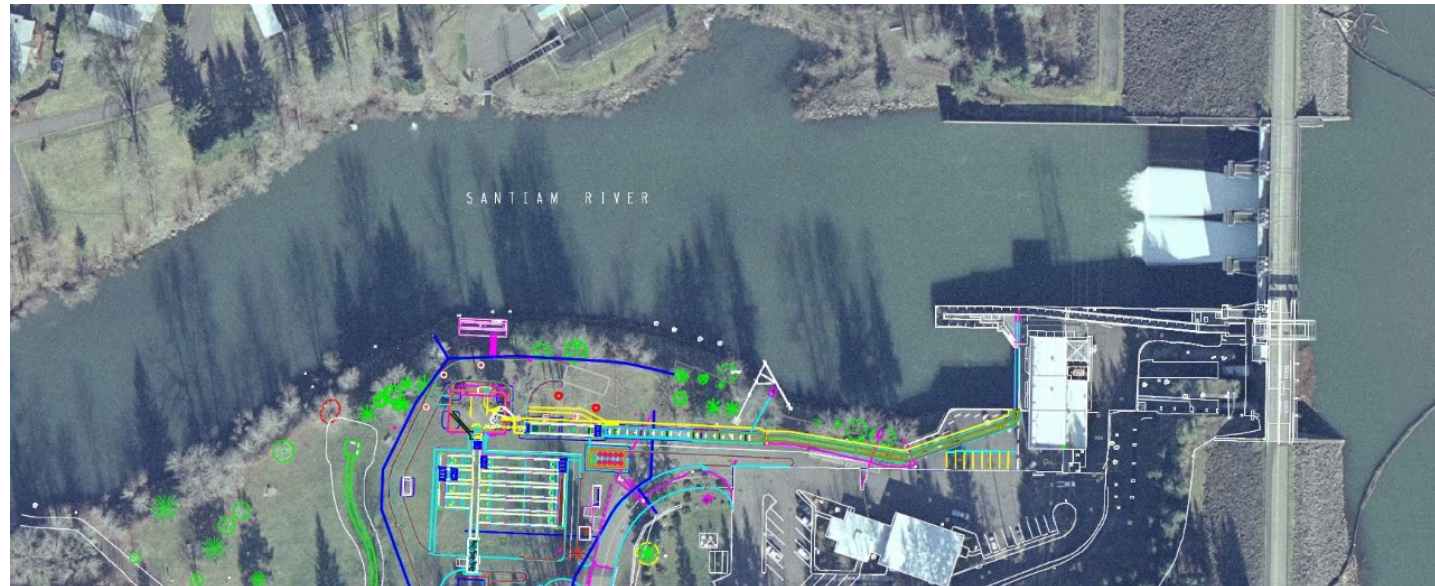
US Army Corps
of Engineers®

Portland District

WELCOME!



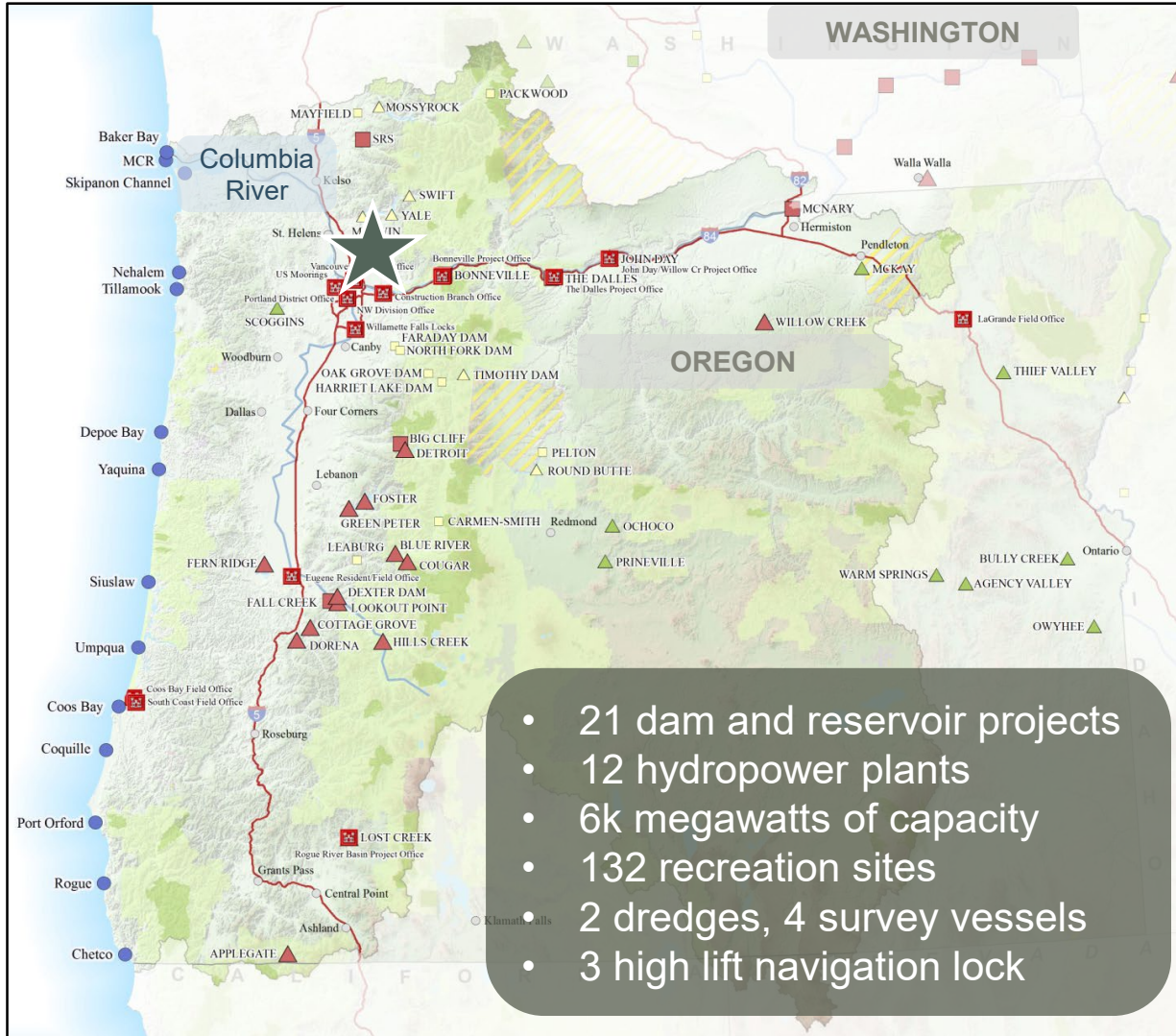
2
US Army Corps
of Engineers®
Portland District



WHO IS PORTLAND DISTRICT?



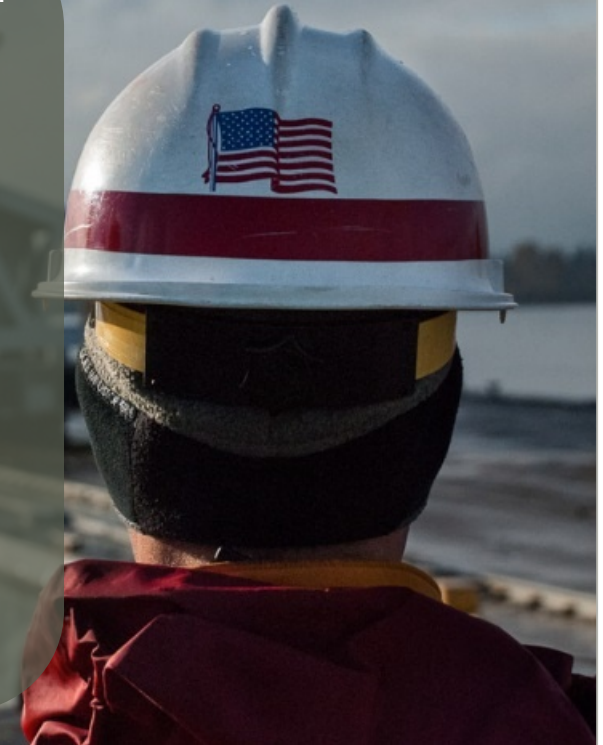
US Army Corps
of Engineers®
Portland District



We are 1,500 civilians and 6 military officers.

We are...

- mechanical engineers.
- civil engineers.
- structural engineers.
- electrical engineers.
- geologists.
- hydrologists.
- biologists.
- archeologists.
- ecologists.
- and many others.



CIVIL WORKS MISSIONS



5
US Army Corps
of Engineers®
Portland District



Hydropower



Navigation



Tribal Trust



Regulatory



Recreation



Water Management



**Environmental
Stewardship**



**Flood Risk
Management**



**Emergency
Response**

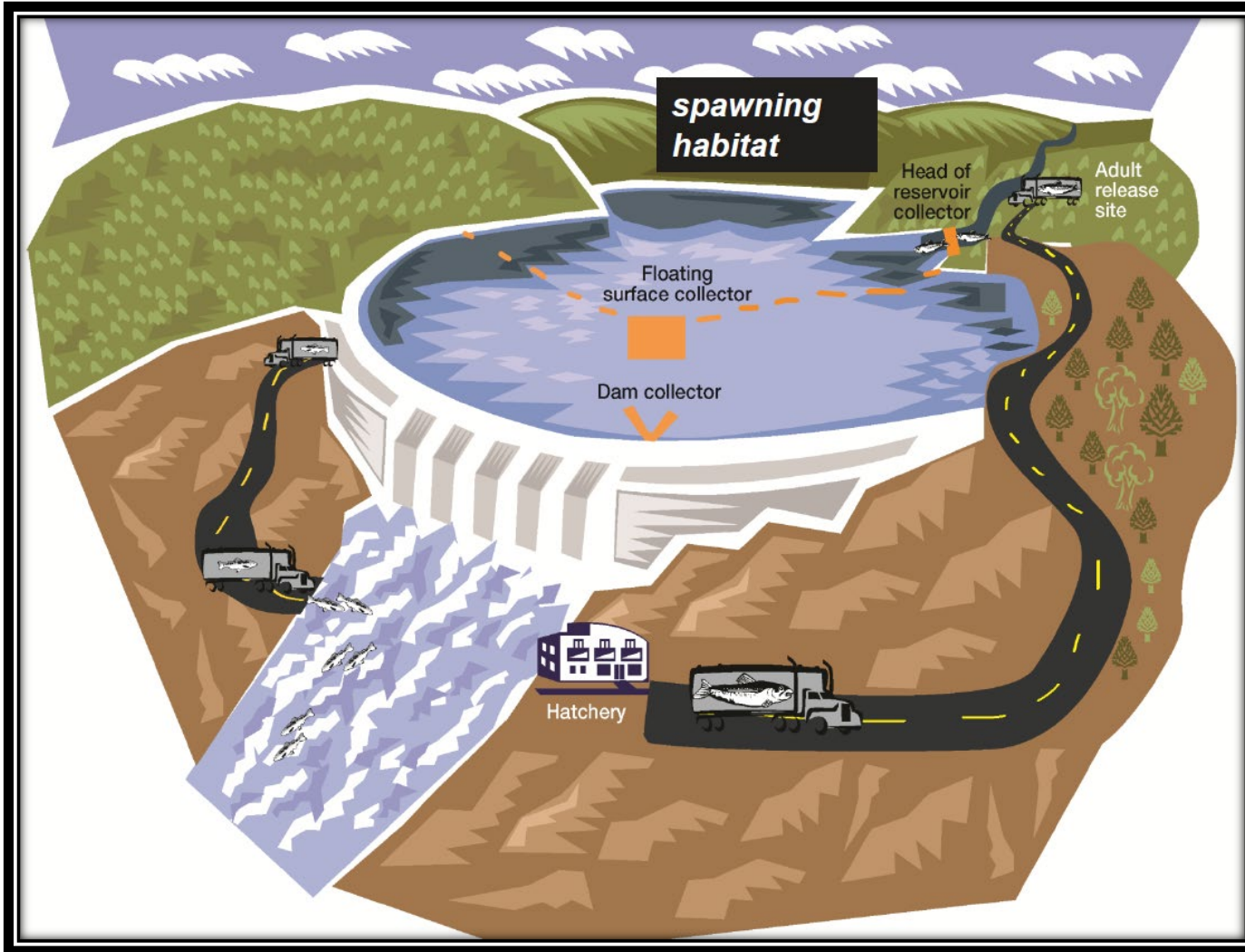
Balance the region's competing needs for navigation, flood risk management, hydropower, fish and wildlife habitat, disaster recovery, irrigation and recreation.

WILLAMETTE FISHERIES SCIENCE REVIEW (WFSR)



US Army Corps
of Engineers®
Portland District

6



PURPOSE: Provide science through Research, Monitoring, and Evaluation (RM&E) to support informed decisions to address effects of Willamette dams on endangered fish.

- Upstream fish passage
- Downstream fish passage
- Flow and water temperature management
- Hatchery management
- Habitat improvements

SCIENCE INFORMED MANAGEMENT WILLAMETTE PROGRAM 2019 HIGHLIGHTS



US Army Corps
of Engineers®
Portland District

7

- Operated Adult fish facilities in four sub-basin in collaboration with ODFW for mitigation hatcheries and adult fish reintroduction
- Operations in four sub-basins to support downstream passage of wild fish
- Operations at three dams to improve downstream water temperatures
- Regular coordination with stakeholders and partners to manage river flow in real-time
- Additional reservoir releases in fall to supplement in-stream flow



10TH ANNUAL WILLAMETTE FISHERIES SCIENCE REVIEW



US Army Corps
of Engineers®
Portland District

8

- Since 2008, ~\$107M invested (average \$9M annually)
- FY2019 funding \$8M
- FY2020 funding \$4M

This year's presentations include results on:

- Bull trout assessments
- Juvenile salmon reservoir distribution and survival
- Juvenile salmon and steelhead dam passage survival
- Copepod ecology and effects on fish health and passage.
- Operational effects of dams on river habitat and water quality
- Special topics: ocean effects on salmon and genetic tools

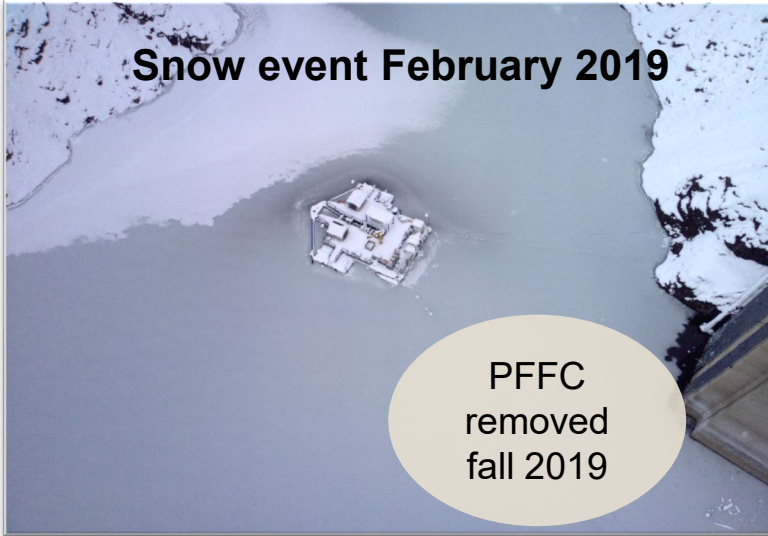
- Researchers from the Northwest, including British Columbia, and as far away as Pennsylvania
- Presenters from USGS, DOE-PNNL, ODFW, OSU, NOAA, UBC, EAS, and Normandeau



SINCE LAST WFSR: SNOW AND HIGH WATER EVENT



US Army Corps
of Engineers®
Portland District



FALL CREEK ADULT FISH FACILITY RIBBON CUTTING



QUESTIONS

