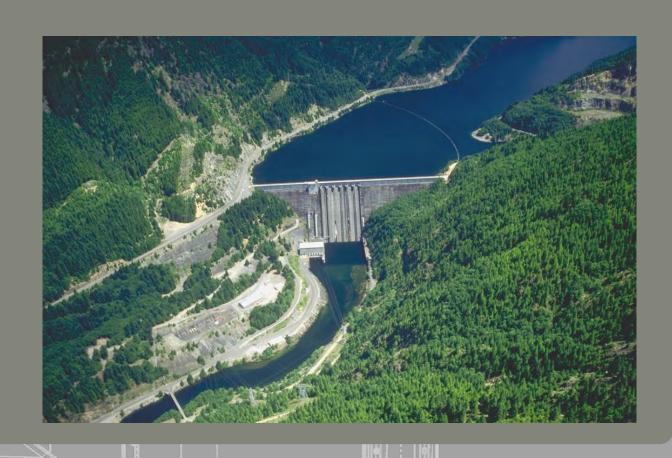
WILLAMETTE BASIN REVIEW REALLOCATION STUDY

North Santiam Basin Summit

Tim Ernster 15 May 2019

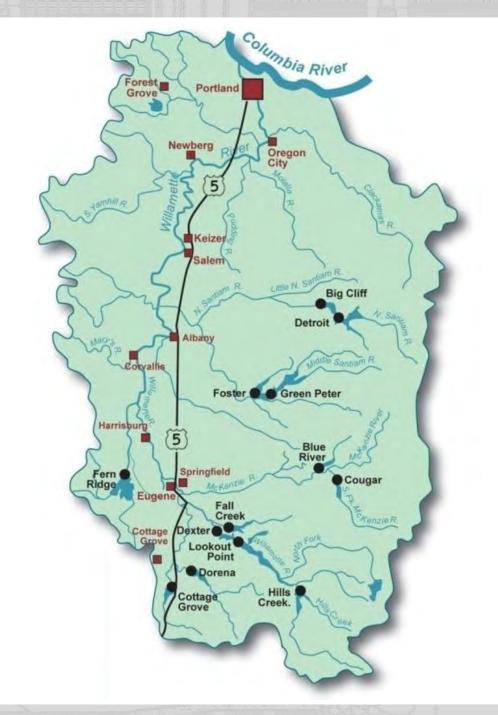






OUTLINE

- Background
- Project status
- Consumptive demands
- Proposed allocations
- What's next?







SPONSORS & STAKEHOLDERS

Fish & Wildlife

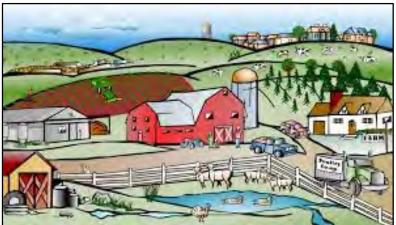


NOAA

ARTMENT OF C



Agricultural Irrigation





Municipal & Industrial





- Non-federal sponsor
- 50/50 cost share

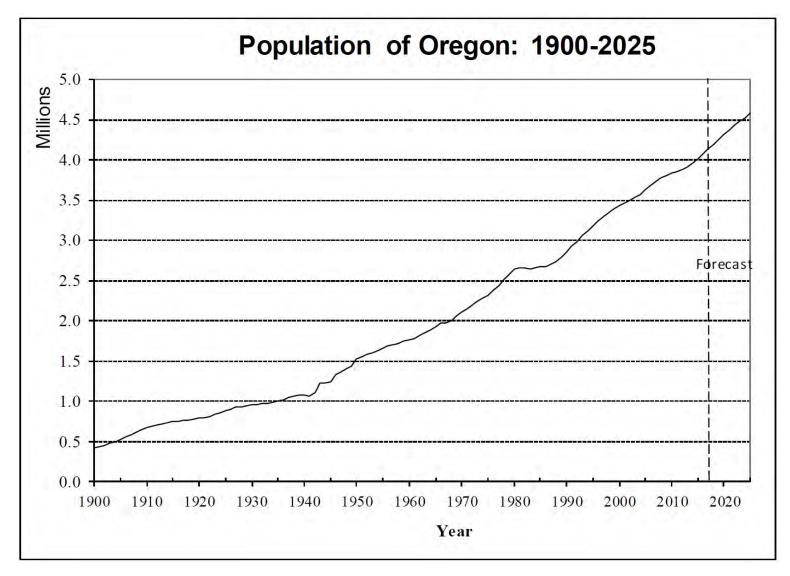
Portland District

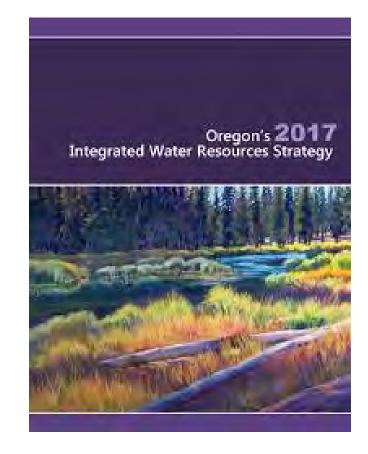




of Agriculture

STUDY DRIVERS - INCREASING DEMAND FOR FINITE RESOURCES



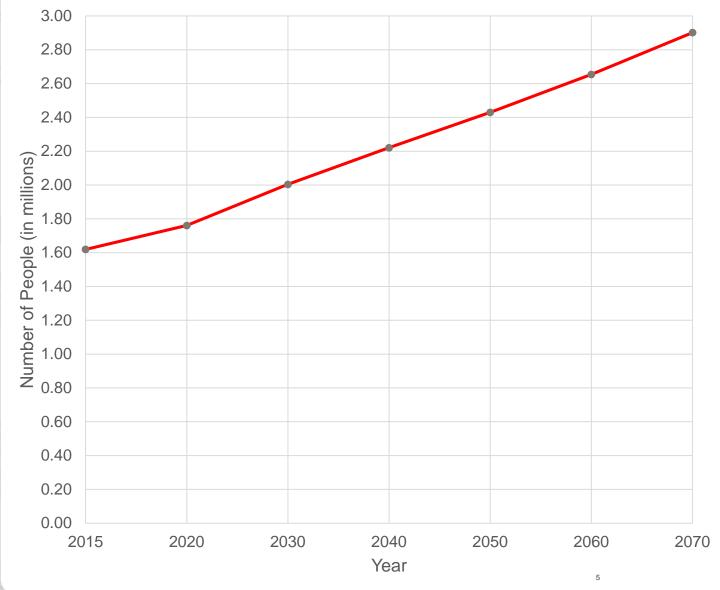


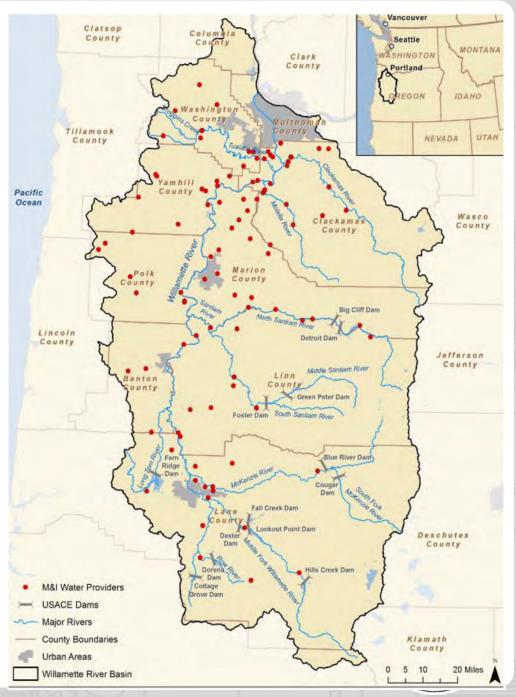




STUDY DRIVERS - RISING M&I DEMAND

Study Area Population Forecast





STUDY PURPOSE AND AUTHORITY

Evaluate reallocation of joint-use storage behind Corps dams in the Willamette Valley to authorized purposes

 Flood Control Act of May 17, 1950, authorized plans contained in House Document 531; pertinent language from that document states

The primary accomplishment of the proposed projects would be the provision of flood control and major drainage. Secondary accomplishments would be the generation of hydroelectric power; improvement of main stem Willamette for navigation; increase of water supplies for irrigation and domestic use; increase of low flows which would result in abatement of pollution and improved fish conditions for fish life; and improved recreational conditions at reservoirs and downstream (p. 1831)

 House Committee on Public Works resolution for the Willamette Basin Review Study, adopted Sept. 8, 1988, authorized the Chief of Engineers to determine

[...] whether modifications to the existing projects are warranted and determine the need for further improvements with the Willamette River Basin (the Basin) in the interest of water resources improvements (Exhibit 1)

US Army Corps of Engineers ® Portland District

BACKGROUND TIMELINE

1991 Appraisal-level study completed by Corps

1996 Study initiated; cost-share agreement signed

1999 Upp. Willamette steelhead, chinook listed in ESA

2000 STOP Study placed on hold by agency partners

2008 BiOps completed

2015 New cost-share agreement signed

2019 Chief's report finalized

REALLOCATION PROCESS

Complete

✓ Authority to study reallocation

In progress

- ✓ Preparation of reallocation feasibility study (final draft)
- ✓ Compliance with NEPA (draft environmental assessment)
- ESA consultation

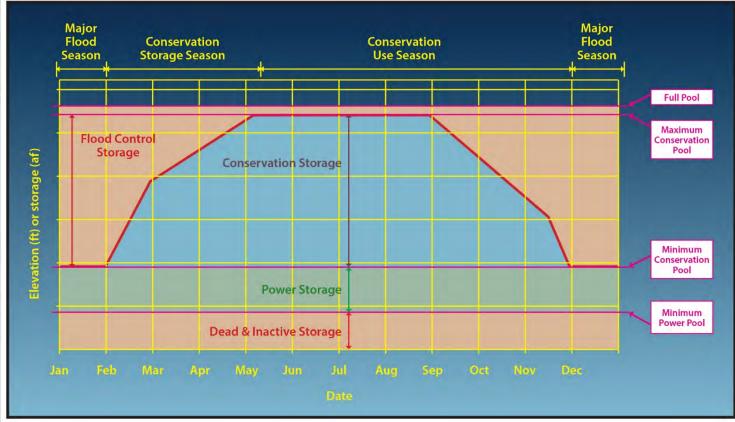
Future

- ☐ Chief's report
- ☐ Congressional approval
- Agency implementation





CONSTRAINTS AND CONSIDERATIONS



Solution must fit within normal rule curve and BiOp constraints





Spatial Distribution of M&I and Al Demand for WVP Stored Water (2070)



ESTIMATING DEMANDS FOR STORED WATER

Peak Season Demands for 2070

Allocation Use Category	Peak Demands (acre-feet)	Portion of Total (percent)
Fish & Wildlife	1,590,000	76.5
Municipal & Industrial	159,750	7.7
Agricultural Irrigation	327,650	15.8
Total	2,077,400	100.0
	2,011,100	,,,,

Higher than 1.59 million acre-feet conservation storage capacity.





DETERMINING REALLOCATION ALTERNATIVES

Alternative A: Proportionate reduction for all uses

Alternative B: Prioritize fish & wildlife storage at peak level

Alternative C: Prioritize M&I and irrigation storage at peak demands

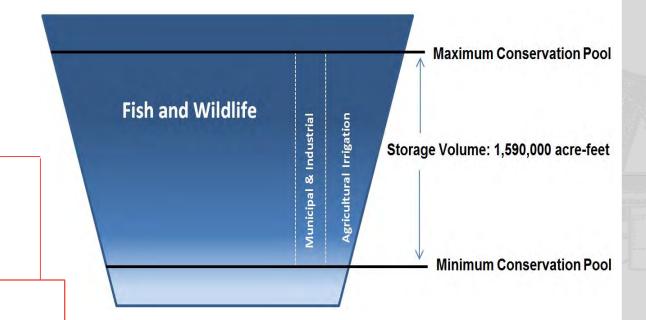
Alternative D: Reduce peak season demand levels with joint use

Reallocation Alternative C:

M&I: 10% 159,750 acre-feet

AI: 21% 327,650 acre-feet

F&W: 69% 1,102,600 acre-feet



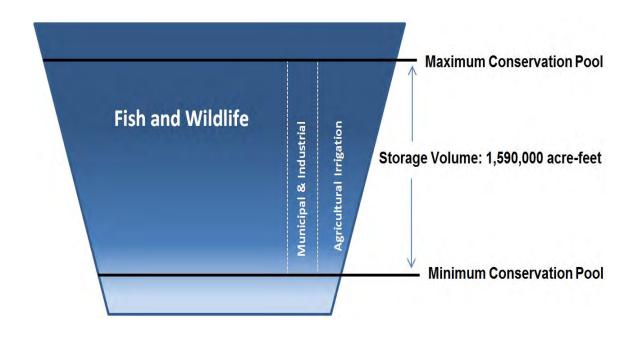


ADAPTIVE MANAGEMENT PLAN ALTERNATIVES

Alternative A: "Share the shortfall" -- proportionally reduce water use across all sectors in dry years

Alternative B: Prioritize storage supply for fish & wildlife first, providing any remaining storage supply to other uses in dry years

Alternative C: Prioritize storage supply for consumptive uses first, providing any remaining storage supply to fish & wildlife purposes in dry years





KEY PROJECT DATES

March 2016: Public scoping meetings

January 2017: Demand estimates for irrigation, municipal, industrial uses completed

March 2017: Stakeholder meeting to share results

April 2017: Analysis completed to quantify use of storage to meet the 2008 BiOp flow objectives

Late July 2017: First version of full draft report completed

August - September 2017: Additional technical analyses

November 7, 2017: Release of draft integrated Feasibility Report-EA for concurrent review

January 5, 2018: Public comment period for draft integrated Feasibility Report-EA ends

March 19, 2018: Agency Decision Milestone completed

May 14, 2018: State Agency Position letter received

October 15, 2018: Formal ESA Consultation with NMFS Begins

July 2019: NMFS to Prepare Final BiOp

August 2019: State and Agency Review

November 2019: Signed Chief's Report (end of feasibility study)





WHAT HAPPENS AFTER THE STUDY?

If approved by Congress,

- Bureau of Reclamation to file transfer application to State of Oregon for change of use on storage certificates to include all three uses
- -State of Oregon to issue secondary instream water rights for protection of flows for fish & wildlife
- -Water users seek storage agreements with Corps and Bureau of Reclamation for consumptive use and subsequently file water right applications with State of Oregon to use stored water
- -Corps to update water control manuals and drought contingency plan
- -State of Oregon and Corps to develop the framework of "share the shortfall" implementation plan



