

# Fish and Water Issues Willamette River Basin



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# The Willamette Basin

## LEGEND

- Projects operating in 1964
- Projects added since 1964
- Re-regulating Dams



# Native Fish Species in the Willamette River Basin

- Spring Chinook – (Threatened)
- Winter Steelhead – (Threatened, State Sensitive)
- Bull Trout – (Threatened)
- Oregon Chub – (Endangered, State Sensitive)
- Rainbow Trout
- Cutthroat Trout (State Sensitive below Falls)
- Pacific Lamprey– (State Sensitive)
- Other – pike minnow, dace, sculpin, etc.

# How can fish be protected?

- Instream Flows
- Habitat
- Screening and Passage
- Angling Regulations

# Instream Flows

- Support the biological needs of fish
  - Spawning
  - Incubation
  - Rearing
  - Migration
  - Habitat
    - Peak and Ecological Flows – channel maintenance, floodplain, alcove areas
  - Water Quality – temperature, dissolved gas, runoff/nutrients

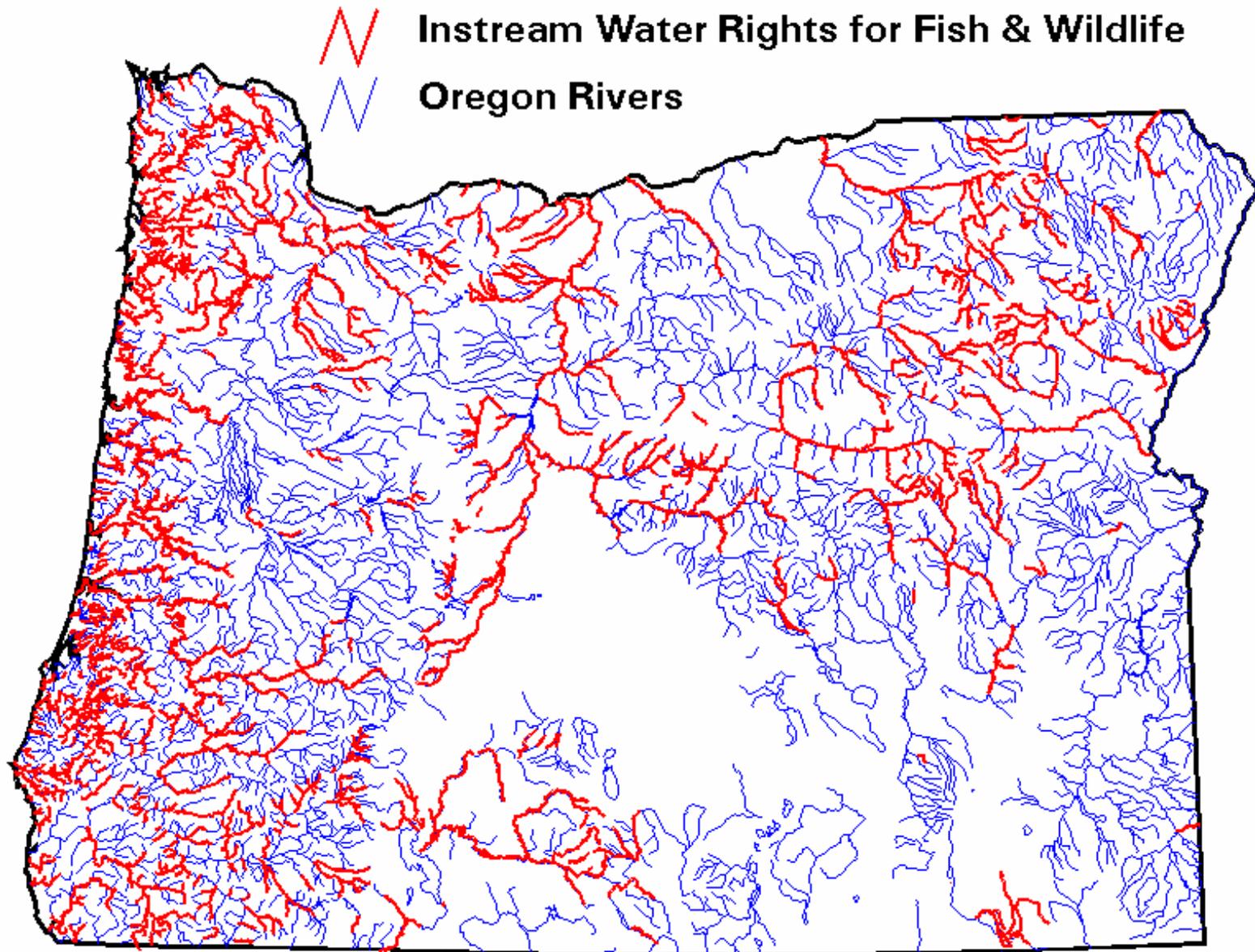
# Instream Flows

- Instream Water Rights (ISWR)
- Total Maximum Daily Load Flows (TMDL)
- Willamette BiOp Flows

# Willamette Flow Recommendations

Mainstem Willamette at Salem				
Month	Instream right (cfs)	Instream Storage Flows Not Included in Water Availability (cfs)	DEQ TMDL	Willamette BiOp, Base Flows
Oct	1,300	4,700	5,630	7,000
Nov	1,300	4,700		
Dec	1,300	4,700		
Jan	1,300	4,700		
Feb	1,300	4,700		
Mar	1,300	4,700		
Apr1-15	1,300	4,700		17,800
Apr16-30	1,300	4,700		17,800
May	1,300	4,700		15,000
Jun1-15	1,300	4,700		13,000
Jun16-30	1,300	4,700		8,700
Jul	1,300	4,700	5,630	6,000
Aug1-15	1,300	4,700	5,630	6,000
Aug16-31	1,300	4,700	5,630	6,500
Sep	1,300	4,700	5,630	7,000

# Instream Water Rights for Fish & Wildlife





# Passage and Screens



**Foster Dam - South Santiam**



**Detroit Dam - North Santiam**



**Ladder - John Day Dam**



**Fish Screen - Crooked River**

# Angling Regulations

- Set to meet species conservation/recovery needs and supply recreational, commercial, and tribal fisheries demands
- Public review every 4 years, proposals reviewed and adopted by ODFW Commission as OAR's
- Emergency Rule
  - 2008 – Willamette River and tributaries closed to retention of Spring Chinook

Questions?

