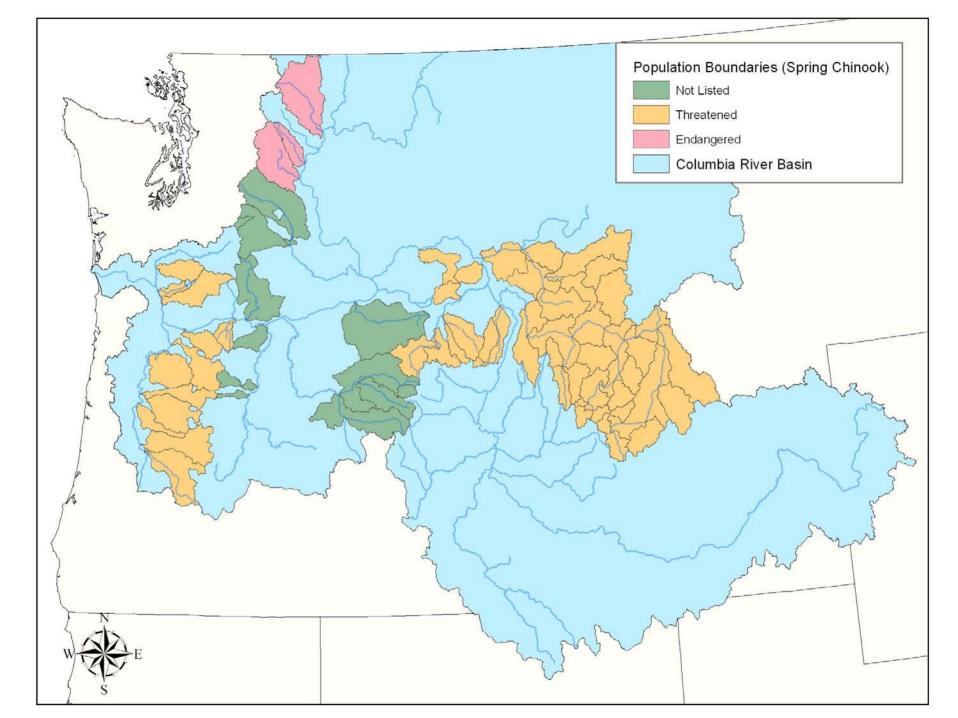
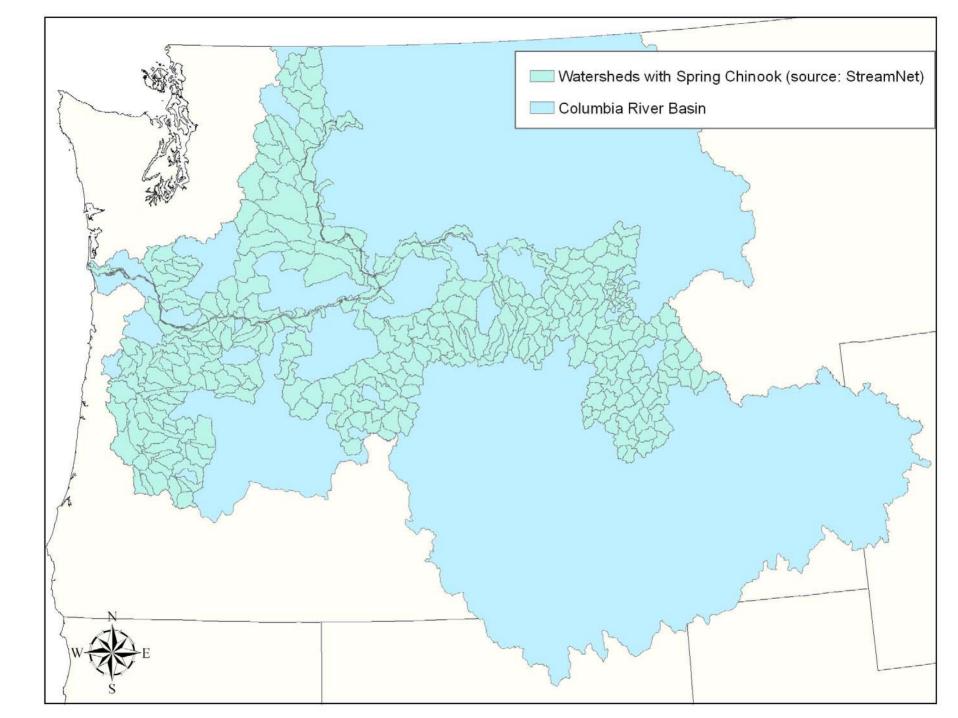
Linking Salmon Restoration Processes

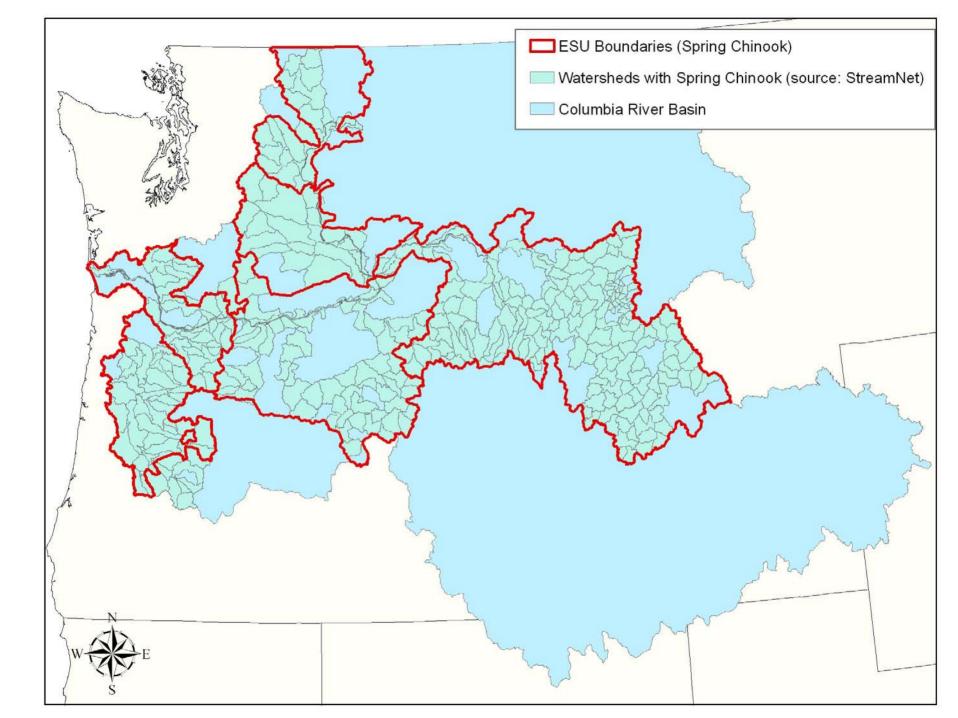
Biological Basis of Management

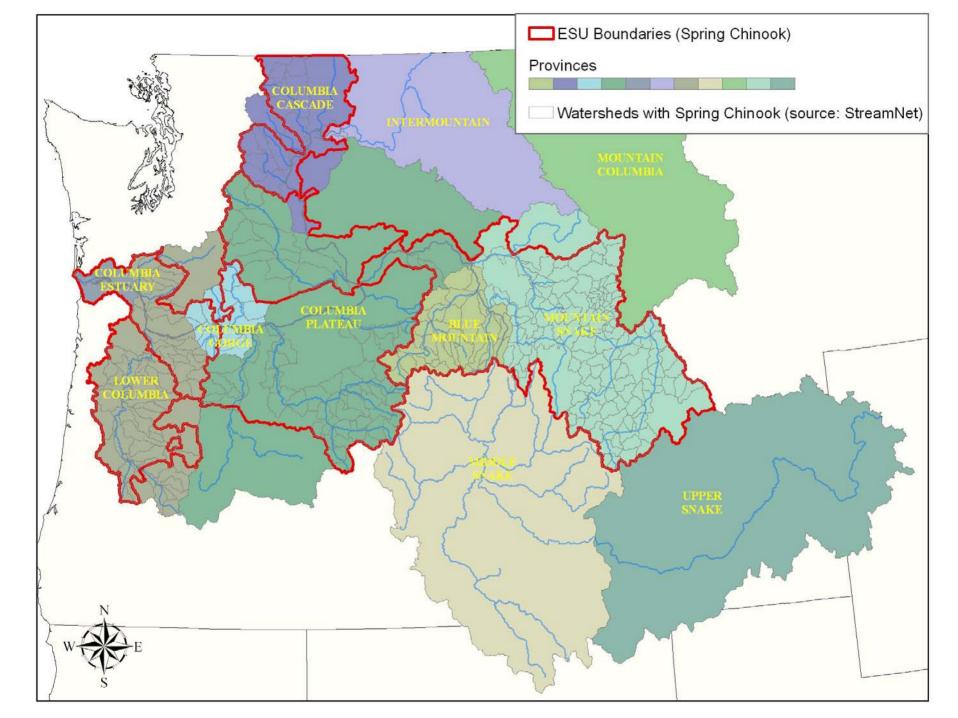
- Salmon Populations
- Watersheds

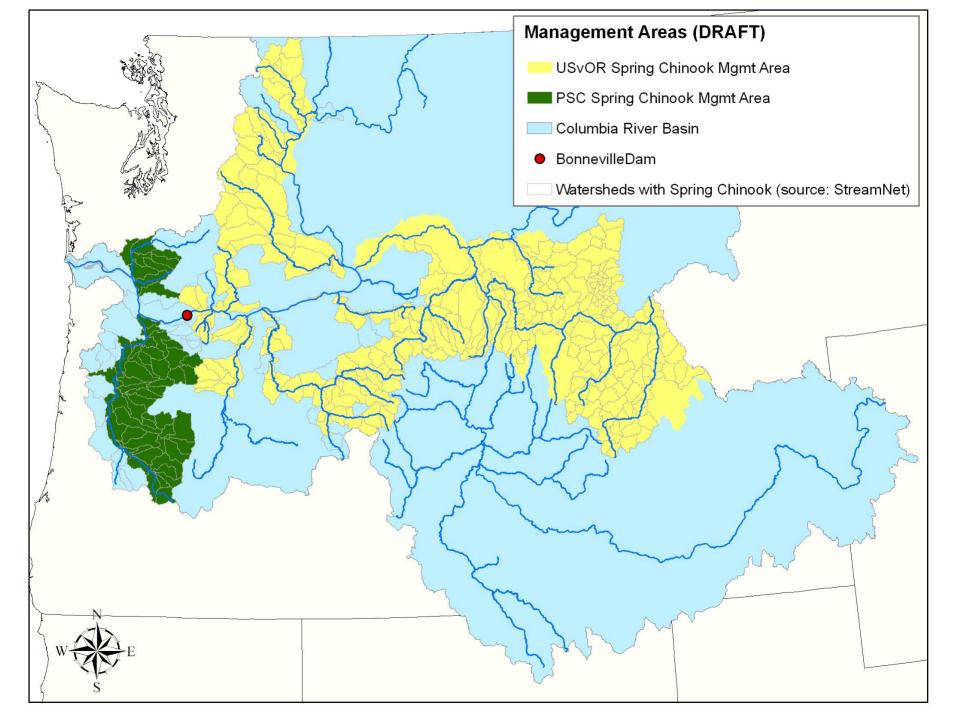




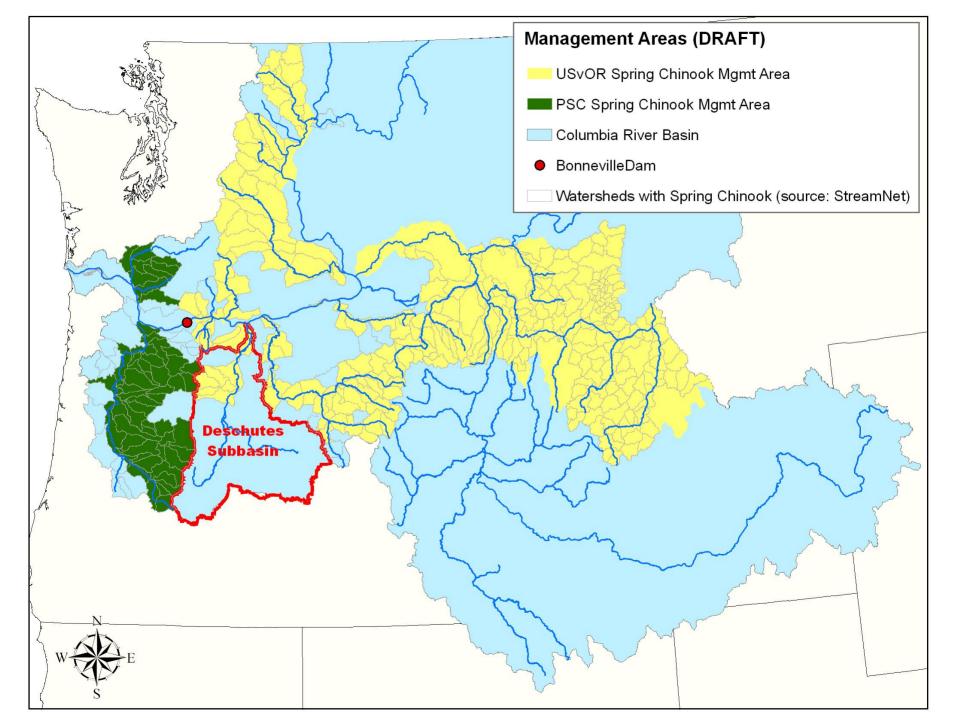
Populations Are Aggregated for Various Management Needs



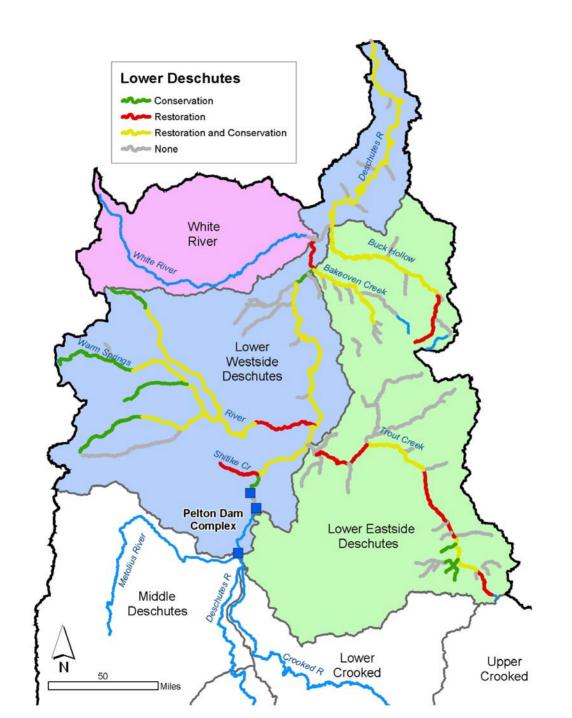


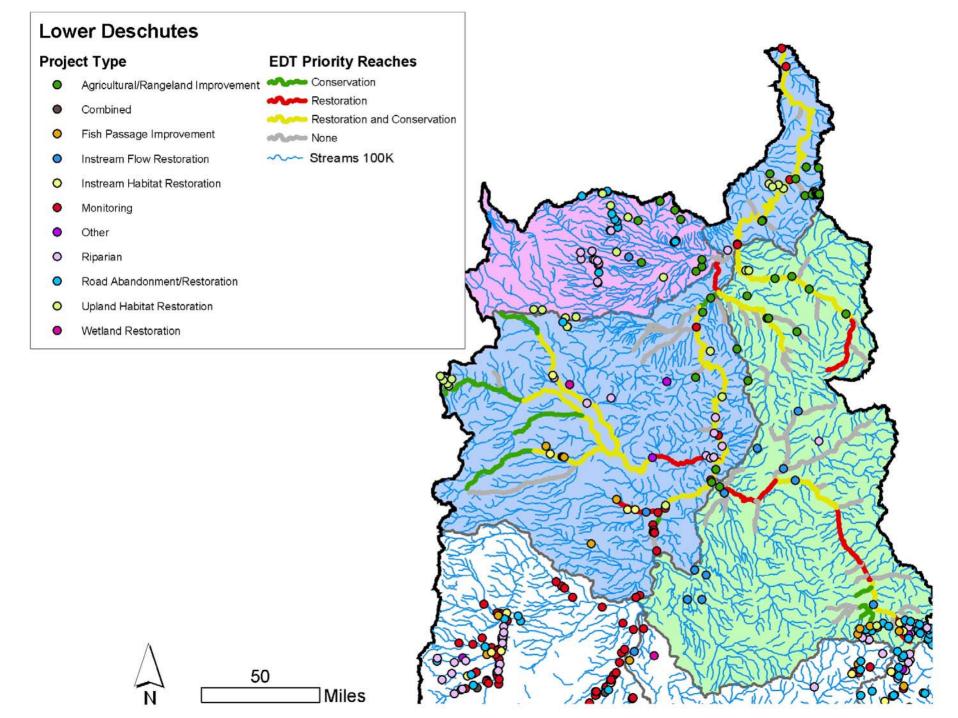


Finer-Scale Assessments Were Used for Subbasin Plans



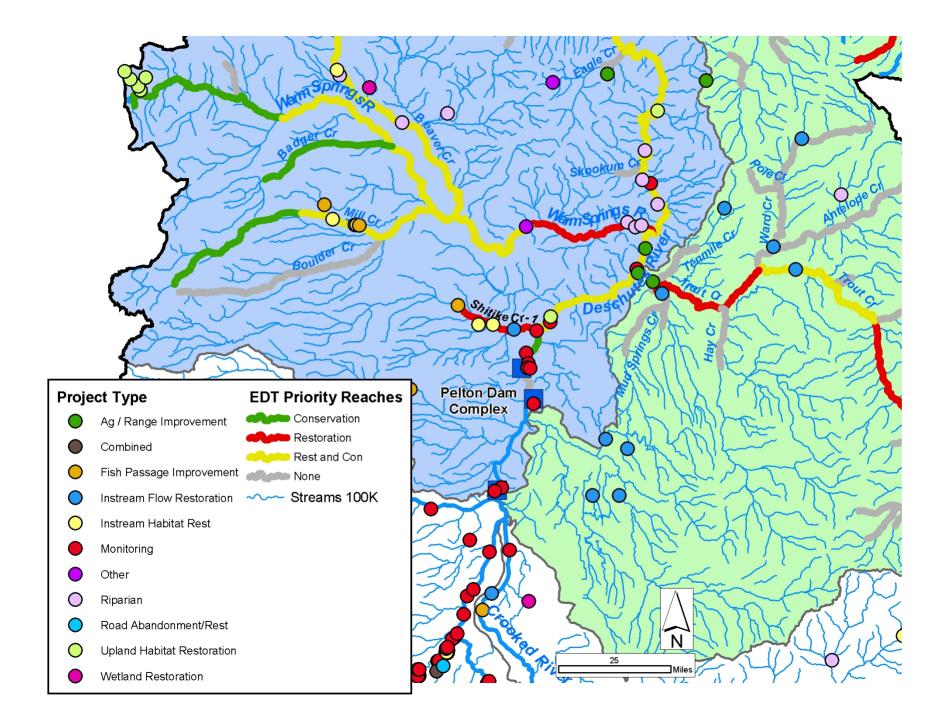






Name	Project Type	Number	%			
Lower Deschutes Westside	Agricultural/Rangeland Improvement	24	29.6			
	Combined	0	0.0			
	Fish Passage Improvement	5	6.2			
	Instream Flow Restoration	1	1.2			
	Instream Habitat Restoration					
	Monitoring	14	17.3			
	Other	2	2.5			
	Riparian	12	14.8			
	Road Abandonment/Restoration	2	2.5			
	Upland Habitat Restoration	15	18.5			
	Wetland Restoration	1	1.2			
	TOTAL	81	100.0			

	# of		
Name	Organization	Projects	%
Lower Deschutes Westside	Bureau of Land Management	20	24.7
	Confederated Tribes of Warm Springs	23	28.4
	Hood National Forest	12	14.8
	OR DEQ	2	2.5
	Oregon Dept. of Transportation	1	1.2
	Portland General Electric	12	14.8
	Sherman Co. SWCD	11	13.6
	TOTAL	81	100.0



Project Type	Title	Description
Fish Passage Improvement	Shitike Creek Headworks Dam	dam removal
Instream Habitat Improvement	Shitike Creek Lower	instream habitat restoration with structures
Instream Habitat Improvement	Shitike Creek Community	gabion placement
Instream Flow Restoration	Shitike Creek Community Bridge	infiltration gallery to conserve and purify water

Geographic Area:	Shitike Cr-1		Stream:			
Reach:	eschutes R to headworks in section 17		Reach Length (mi):	8.70		
Reacii.			Reach Code:	Shitike Cr-1		
Restoration Benefit Category:1/	Α	Productivity Rank:1/	1	Potential % chang	ge in productivity:2/	33.3%
Overall Restoration Potential Rank:1/	1	Average Abundance (Neq) Rank:1/	1	Potential	23.1%	
(lowest rank possible - with ties)1/	18	Life History Diversity Rank:1/	4	Potential % ch	ange in diversity:2/	0.0%
Preservation Benefit Category:1/	Α	Productivity Rank:1/	3	loss in productivity	with degradation:2/	-19.8%
Overall Preservation Rank:1/	3	Average Abundance (Neq) Rank:1/	3	% loss in Neq	with degradation:2/	-26.0%
(lowest rank possible - with ties)1/	21	Life History Diversity Rank:1/	3	% loss in diversity	with degradation:2/	-20.1%

					Change in attribute impact on survival															
Life stage	Relevant months	% of life history trajectories affected	Productivity change (%)	Life Stage Rank	Channel stability	Chemicals	Competition (w/ hatch)	Competition (other sp)	Flow	Food	Habitat diversity	Harassment/poaching	Obstructions	Oxygen	Pathogens	Predation	Sediment load	Temperature	Withdrawals	Key habitat quantity
Spawning	Sep	25.3%	-10.9%	6																0
Egg incubation	Sep-Apr	25.3%	-26.6%	3	•													•		0
Fry colonization	Mar-May	36.9%	-20.8%	1	•				•	•						•				•
0-age active rearing	Mar-Oct	73.6%	-8.2%	2			•			•	•									
0-age migrant	Oct-Nov	16.7%	-3.3%	7							•					•		•		•
0-age inactive	Oct-Mar	5.4%	-38.1%	5	•				•	•										
1-age active rearing	Mar-May	5.4%	-5.8%	8			•		•		•									
1-age migrant	Mar-Jun	14.4%	-0.5%	9							•					•				0
1-age transient rearing																				
2+-age transient rearing																				
Prespawning migrant	Apr-Aug	100.0%	-0.1%	10							•									•
Prespawning holding	May-Sep	25.3%	-18.8%	4					•		•							•		

Using Core Data Standards and Tools We Can:

- Capture fine-scale biological and physical detail
- Integrate details at larger scales to address management needs
- Provide summary reports at any scale
- Prioritize and implement effective actions
- Communicate with, and between, management and stakeholder groups

Moving From Concept to Reality

- Cooperate to develop and use core data standards (e.g. NED, PNAMP, CSMEP, StreamNet)
- Move existing data into the core framework (StreamNet, Subbasin Archiving, agencies)
- Improve information sharing (NED, existing projects, agencies)
- Provide technical support to management and stakeholder groups, as needed
- Plan ahead easier, cheaper, more accurate
- Require new projects to use core standards