

The start of Salmon Sanctuaries in Portland



ENVIRONMENTAL SERVICES
CITY OF PORTLAND
working for clean rivers

PBOT
PORTLAND BUREAU OF TRANSPORTATION



Bureau of Planning and Sustainability
Innovation. Collaboration. Practical Solutions.



PORTLAND
PARKS & RECREATION
Healthy Parks, Healthy Portland

Legacy of Salmon in the Pacific Northwest

Salmon have defined the Pacific Northwest by:

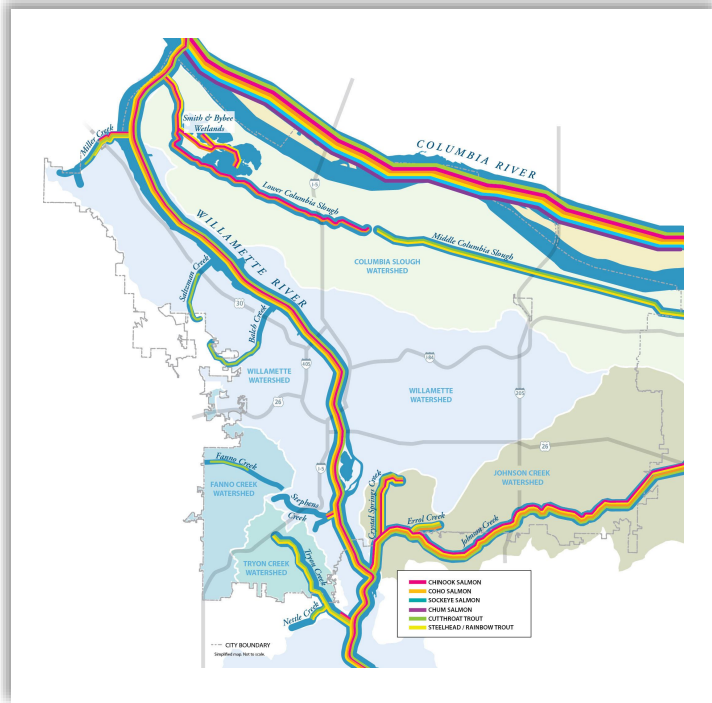
- Transporting nutrients to our soils, forests, and wildlife
- Cleaning our rivers
- Serving an integral role in the culture, religion and physical sustenance of Indigenous peoples;
- Supporting early settlers and timber, fur trade, and fishing economies

We would live in a very different place if not for salmon.



Regional significance

What we do in Portland matters to salmon throughout the region.



Portland is a keystone location: Every salmon in the Columbia and Willamette basin passes through the city TWICE.



What is a Salmon Sanctuary?

As a result of investments in restoration, rivers and streams in the city that have conditions salmon need to thrive.

- Reflect the highest “score” for the top 10 criteria salmon need to recover
- A way to help focus on what still needs to be done for salmon



Crystal Springs through Westmoreland Park

Data Sources



PAWMAP



USFWS seining at Tryon Creek below culvert



BES staff conducting PAWMAP surveys

GIS

Project Effectiveness Monitoring

Partner data



ODFW snorkel surveys in Crystal Springs Creek

Criteria & Eligibility

MANDATORY

Young, juvenile and adult salmon present

No barriers to ocean

Cutthroat trout at Saltzman Creek ▼



▲ Old culverts along Stephens Creek



Coho salmon at Crystal Springs Creek ►

Criteria & Eligibility

AT LEAST 5 OF 8 REQUIRED

- Limited invasive fish species
- Cold water refuge
- High water quality
- Limited stormwater runoff
- Abundant riparian cover
- Healthy stream banks
- Beavers present
- Active stewardship group



Criteria & Eligibility



- Limited invasive fish species



Less than 5% invasive fish present

- Cold water refuge



Less than 5 days above 18°C

- High water quality



Fish specific parameters: TSS below 10 and Dissolved Copper

- Limited stormwater runoff



10% max. total impervious area that drains directly to stream

Criteria & Eligibility

- Abundant riparian cover



> 80% cover within 300 feet

- Healthy stream banks



> 10% artificial/hardended banks

- Beavers present



Can be anecdotal evidence

- Active stewardship group



\$5,000 grant award to address remaining limiting factors






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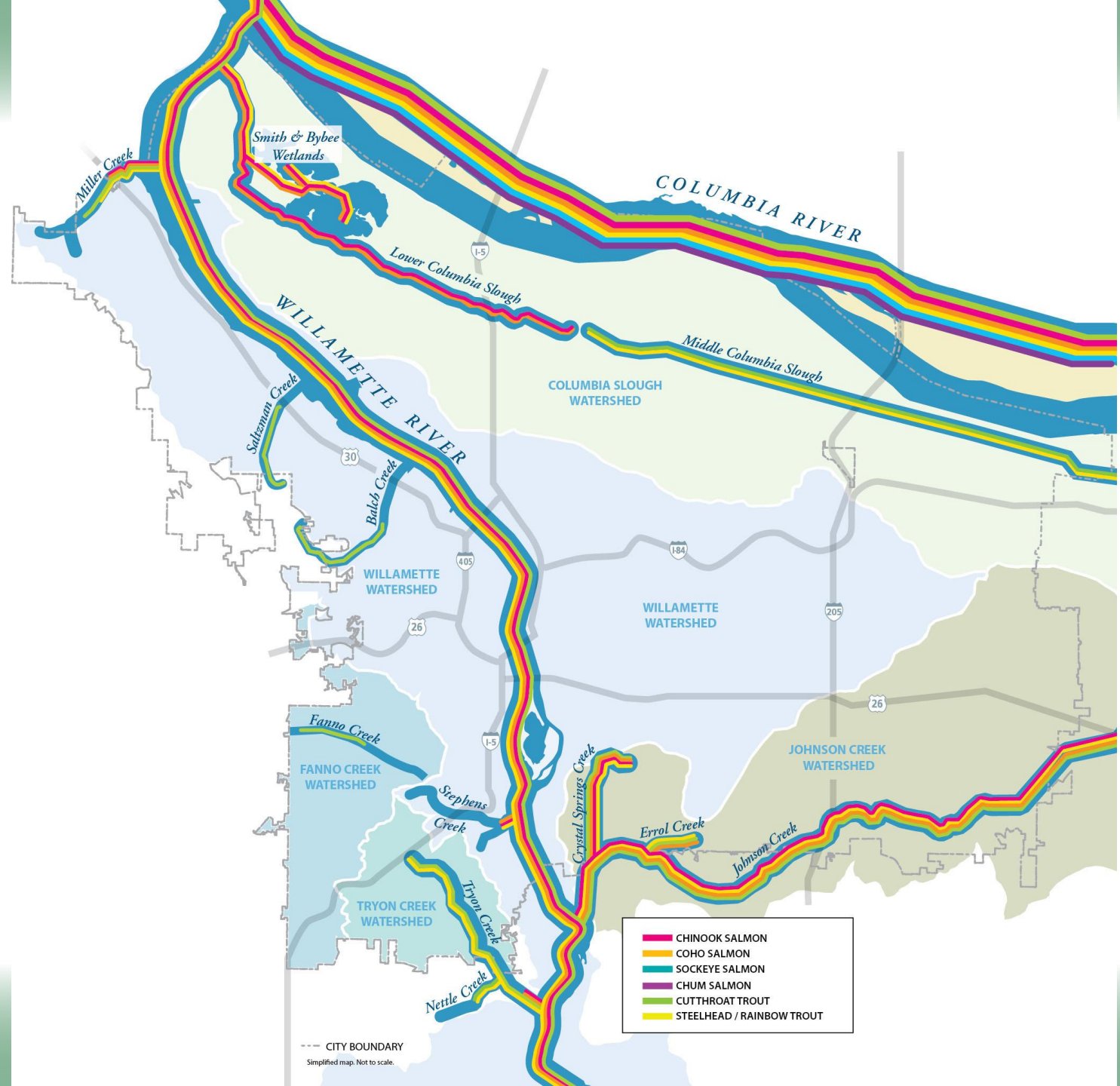
Salmon Sanctuary Candidates

Anticipated
Date of Achievement

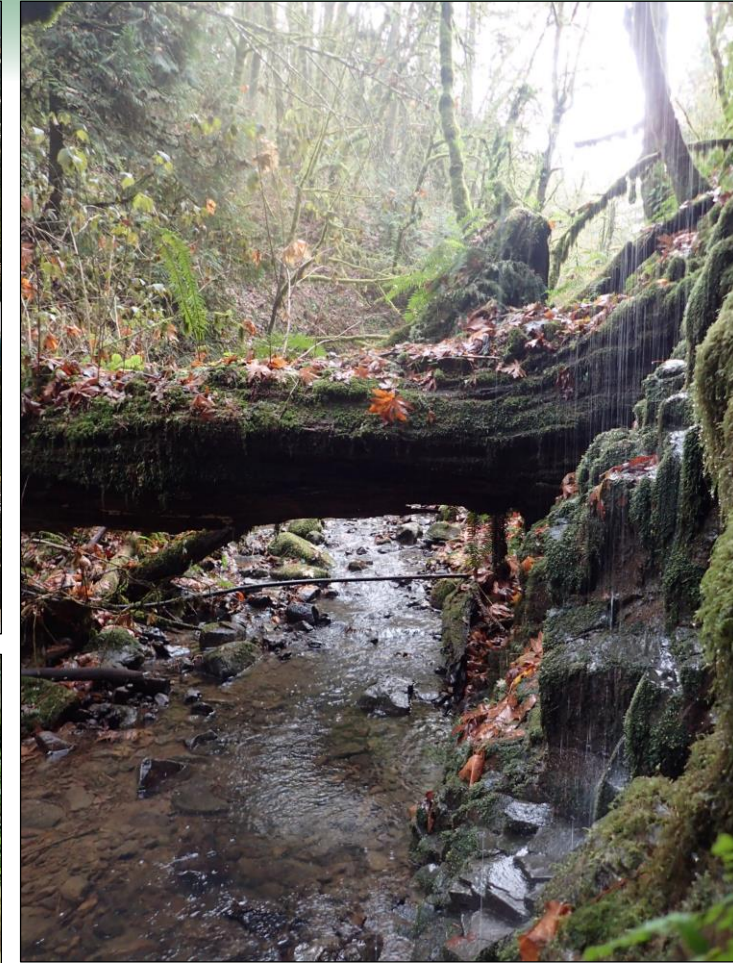
<div> ENVIRONMENTAL SERVICES CITY OF PORTLAND</div> <h1>Salmon Sanctuary Candidates</h1>		Anticipated Date of Achievement	Young, juvenile and adult salmon present	No barriers to ocean	Limited invasive fish species	Cold water refuge	High water quality	Limited stormwater runoff	Abundant riparian cover	Healthy stream banks	Beavers present	Active stewardship
			MANDATORY	AT LEAST 5 OF 8 REQUIRED								
COLUMBIA SLOUGH WATERSHED												
Lower Columbia Slough	More than 10 years		✓	✓							✓	✓
JOHNSON CREEK WATERSHED												
Crystal Springs Creek	2017		✓	✓	✓		✓	✓			✓	✓
Deardorff Creek	More than 10 years			✓	✓					✓		✓
Errol Creek	Less than 5 years		✓					✓			✓	✓
Kelley Creek	Less than 5 years				✓			✓		✓		✓
Mitchell Creek	Less than 5 years							✓		✓		✓
Veterans Creek	More than 10 years											✓
TRYON CREEK WATERSHED												
Tryon Creek	Less than 5 years		✓		✓		✓				✓	✓
WILLAMETTE RIVER WATERSHED												
Balch Creek	More than 10 years				✓		✓	✓	✓	✓		✓
Miller Creek	Less than 5 years			✓	✓	✓	✓	✓	✓	✓		✓
Saltzman Creek	More than 10 years				✓	✓	✓	✓	✓			✓

- Celebrate investments
- Recognize community efforts
- Build momentum for continued improvements
- Demonstrate the scientific rigor behind our success

Designate the best of the best as Salmon Sanctuaries



The future of Salmon Sanctuaries



▲ Forest Park's Miller Creek

◀ Tryon Creek / Highway 43 culvert

Oaks Bottom Wildlife Refuge (Top left)