



Quantitative Objectives Report

Report: **Sockeye**

Document: **Okanogan Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: <http://www.nwcouncil.org/fw/subbasinplanning/okanogan/plan/>

Sockeye

<u>Recovery Domain</u>	<u>Recovery Sub Domain</u>	<u>ESU/DPS</u>	<u>MPG</u>	<u>Population</u>	<u>Run</u>	<u>ESA Listed</u>	<u>Adult Returns</u>	<u>Cohort Replacement Rate</u>	<u>Min No Naturally Produced Spawners</u>
Interior Columbia	Upper Columbia	Upper Columbia River Sockeye	N/A	Okanogan		Not listed	58730 (1)	Greater than or equal 1 (2)	500 (2)

FOOTNOTES:

- (1) Canada objective
- (2) Eight consecutive years

Document: **Viability Criteria for Application to Interior Columbia Basin Salmonid ESUs**

Author: Interior Columbia Basin Technical Recovery Team

Document Year: **2007**

Link: http://www.nwfsc.noaa.gov/trt/trt_documents/ictrt_viability_criteria_reviewdraft_2007_complete.pdf

Sockeye

<u>Recovery Domain</u>	<u>Recovery Sub Domain</u>	<u>ESU/DPS</u>	<u>MPG</u>	<u>Population</u>	<u>Run</u>	<u>ESA Listed</u>	<u>Minimum Abundance Threshold (MAT)</u>	<u>Size Category</u>	<u>Role in Viability Scenario</u>
Interior Columbia	Snake River	Snake River Sockeye Salmon	Sawtooth Valley	Redfish Lake		Endangered	NA	Intermediate	2 highly Viable and 1 Viable - Redfish Lake, Alturas Lake, Pettit Lake
				Alturas Lake			NA	Intermediate	2 highly Viable and 1 Viable - Redfish Lake, Alturas Lake, Pettit Lake

Interior Columbia	Snake River	Snake River Sockeye Salmon	Sawtooth Valley	Petit Lake	NA	Small	2 highly Viable and 1 Viable - Redfish Lake, Alturas Lake, Pettit Lake
				Yellowbelly Lake	NA	Small	Reconsider as recovery efforts progress
				Stanley Lake	NA	Small	Reconsider as recovery efforts progress

Document: **ESA Recovery Plan for Snake River Sockeye Salmon (Oncorhynchus nerka)**

Author: NMFS

Document Year: **2015**

Link: http://www.westcoast.fisheries.noaa.gov/protected_species/salmon_steelhead/recovery_planning_and_implementation/snake_river/current_snake_river_recovery_plan_documents.html

Sockeye

<u>Recovery Domain</u>	<u>Recovery Sub Domain</u>	<u>ESU/DPS</u>	<u>MPG</u>	<u>Population</u>	<u>Run</u>	<u>ESA Listed</u>	<u>Abundance Threshold</u>	<u>Size Category</u>	<u>Population Growth</u>	<u>Role in Viability Scenario</u>
Interior Columbia	Snake River	Snake River Sockeye Salmon	Sawtooth Valley	Yellowbelly Lake			500	Small	NA	Consider reintroductions as recovery efforts progress
				Redfish Lake		Endangered	1000	Intermediate	Stable or Increasing	Highly viable or Viable
				Petit Lake			500	Small	Stable or Increasing	Highly viable or Viable
				Stanley Lake			500	Small	NA	Consider reintroductions as recovery efforts progress

Interior Columbia	Snake River	Snake River Sockeye Salmon	Sawtooth Valley	Alturas Lake		1000	Intermediate	Stable or Increasing	Highly viable or Viable
-------------------	-------------	----------------------------	-----------------	--------------	--	------	--------------	----------------------	-------------------------

NOTES:
 Threshold Abundance: 10-year geometric mean of estimated natural-origin spawners

Document: **Salmon Subbasin Management Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: http://www.nwcouncil.org/media/119926/Salmon_Subbasin_Management_Plan.pdf

Sockeye

<u>Recovery Domain</u>	<u>Recovery Sub Domain</u>	<u>ESU/DPS</u>	<u>MPG</u>	<u>Population</u>	<u>Run</u>	<u>ESA Listed</u>	<u>Long-Term Return</u>	<u>Natural Spawning Component</u>
Interior Columbia	Snake River	Snake River Sockeye Salmon	Sawtooth Valley	Salmon (Entire Subbasin)		Endangered	8000-44500	2000

Document: **Nez Perce Tribe Department of Fisheries Resources Management Plan 2013-2018**

Author: Nez Perce Tribe

Document Year: **2013**

Link: <http://www.nptfisheries.org/portals/0/images/dfrm/home/fisheries-management-plan-final-sm.pdf>

Sockeye

<u>Recovery Domain</u>	<u>Recovery Sub Domain</u>	<u>ESU/DPS</u>	<u>MPG</u>	<u>Population</u>	<u>Run</u>	<u>ESA Listed</u>	<u>Escapement Goals</u>
------------------------	----------------------------	----------------	------------	-------------------	------------	-------------------	-------------------------

Interior Columbia	Snake River	NA	Grande Ronde-Imnaha	Grande Ronde	Endangered	2500 (1)
Interior Columbia	Snake River	Snake River Sockeye Salmon	Sawtooth Valley	Salmon	Endangered	8000-44500 (1)

FOOTNOTES:

(1) Summary of escapement goals from NPCC subbain plans presented in the NPT 2013 Management Plan

Document: **CBFWA Fish and Wildlife Program Recommendation 2009 Amendment**

Author: CBFWA

Document Year: **2009**

Link: http://www.nwcouncil.org/uploads/2008amend/uploadedfiles/111/2_Recommendation.pdf

Sockeye

<u>Recovery Domain</u>	<u>Recovery Sub Domain</u>	<u>ESU/DPS</u>	<u>MPG</u>	<u>Population</u>	<u>Run</u>	<u>ESA Listed</u>	<u>Adult Returns: Adult Returns (Natural Spawners)</u>
Interior Columbia	Snake River	NA	N/A	Grande Ronde		NA	2500:NA
Interior Columbia	Snake River	Snake River Sockeye Salmon	Sawtooth Valley	NA		Endangered	8000-44500:2000
Interior Columbia	Upper Columbia	Upper Columbia River Sockeye	N/A	Wenatchee		NA	23000 (6,9):NA
				Okanogan		NA	58730 past well dams(9):NA

FOOTNOTES:

- 1 - Includes hatchery fish
 - 2 - ODFW and CTUIR objective
 - 3 - Yakama Indian Nation project proposal 199506325
 - 4 - Nez Perce Tribe objective
 - 5 - Draft Recovery Plan
 - 6 - WDFW objective
 - 7 - Past Wells Dam
 - 8 - Yakama Nation Master Plan
 - 9 - CBFWA 2009 F&W Program Amendment
 - 10 - Subbain plan unless otherwise noted as described in CBFWA recommendation
 - 11 - Minimum delisting criteria from draft recovery plan of technical plan as described in CBFWA recommendation
-