



Quantitative Objectives Report

Report: **Coho**

Document: **Washington Lower Columbia Salmon Recovery and Fish and Wildlife Subbasin Plan - Washington Management Plan in Lower Columbia River Recovery Plan for Salmon and Steelhead**

Author: Lower Columbia Fish Recovery Board

Document Year: **2010**

Link: http://media.wix.com/ugd/810197_ed97ad06e02445f5927163b568dccd3c.pdf

Coho

<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 Target</u>	<u>Contribution</u>	<u>Viability Objective</u>	<u>Productivity Improvement Target(%)</u>
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	NF Lewis	Early-run (Type-S) and Late-run (Type-N)	Threatened	500	Contributing	Low	50
				Washougal	Late-run (Type-N)	Threatened	1500	Contributing	Moderate +	>500
				EF Lewis	Early-run (Type-S) and Late-run (Type-N)	Threatened	2000	Primary	High	>500
				Kalama	Late-run (Type-N)	Threatened	500	Contributing	Low	>500
				Coweeman	Late-run (Type-N)	Threatened	1200	Primary	High	170
				Toutle NF	Early-run (Type-S) and Late-run (Type-N)	Threatened	1900	Primary	High	180
				Toutle SF	Early-run (Type-S) and Late-run (Type-N)	Threatened	1900	Primary	High	180
				Tilton	Early-run (Type-S) and Late-run (Type-N)	Threatened	NA	Stabilizing (2)	Very Low (2)	0
				Upper Cowlitz	Late-run (Type-N)	Threatened	2000	Primary (1)	High (1)	>500

Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	Lower Cowlitz	Late-run (Type-N)	Threatened	3700	Primary	High	100
				Cispus	Early-run (Type-S) and Late-run (Type-N)	Threatened	2000	Primary (1)	High (1)	>500
				Salmon	Late-run (Type-N)	Threatened	NA	Stabilizing	Very Low	0
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Coast	Mill/Abernathy /Germany	Late-run (Type-N)	Threatened	1800	Contributing	Moderate	>500
				Elochoman/Skamokawa	Late-run (Type-N)	Threatened	2400	Primary	High	170
				Grays/Chinoo	Late-run (Type-N)	Threatened	2400	Primary	High	370
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Gorge	Upper Gorge	Late-run (Type-N)	Threatened	1900	Primary (1)	High	400
				Lower Gorge	Late-run (Type-N)	Threatened	1900	Primary	High	400

FOOTNOTES:

- (1) Increase relative to Interim Plan
- (2) Reduction relative to the Interim Plan

Document: **Lower Columbia River Conservation and Recovery Plan for Oregon Populations of Salmon and Steelhead**

Author: ODFW

Document Year: **2010**

Link: http://www.dfw.state.or.us/fish/CRP/docs/lower-columbia/OR_LCR_Plan%20-%20Aug_6_2010_Final.pdf

Coho

<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</u>	<u>Overall Risk Class</u>	<u>A&P Gap</u>	<u>Contribution to Delisting</u>
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Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Coast	Clackamas	Early and Late	Threatened	11232	Very Low	4684	Primary
				Big Creek	Late	Threatened	12	Very High	4	Stabalizing
				Youngs Bay	Late	Threatened	7	Very High	3	Stabalizing
				Scappoose River	Late	Threatened	3208	Very Low	1266	Primary
				Clatskanie	Late (Type N)	Threatened	3201	Very Low	1838	Primary
				Sandy River	Early and Late	Threatened	5685	Low	4063	Primary
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Gorge	Lower Gorge Tributaries	Late (Type N)	Threatened	962	High (Low)	940	Support WA (L)
				Upper Gorge/Hood River	Early (Type N)	Threatened	5203	Low	5162	Primary
							Broad Sense			
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	N/A	Scappoose River			4184	Very Low+	2242	NA
				Upper Gorge/Hood River			5486	Very Low	5445	NA
				Big Creek			6321	Very Low	6313	NA
				Youngs Bay			11913	Very Low	11909	NA
				Clatskanie			3201	Very Low	1838	NA
				Sandy River			6514	Very Low	4892	NA
				Clackamas			17674	Very Low+	11126	NA
				Lower Gorge			3102	Very Low	3080	NA

NOTES:

- Oregon recognizes the ESU as a State Management Unit - Lower Columbia River Coho □
- Oregon State Status - Endangered □
- Oregon identified the Gorge populations as a single population □
- Oregon identified the Bonneville populations as a single population □
- The desired status (Overall Risk Class) for population which are not part of an ESA-listed ESU are indicated in parentheses

Document: **Revised Viability Criteria for Salmon and Steelhead in the Willamette and Lower Columbia Basins**

Author: Willamette/Lower Columbia Technical Recovery Team, ODFW

Document Year: **2006**

Link: http://www.nwfsc.noaa.gov/trt/wlc/viability_report_revised.cfm

Coho								
<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>
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	Clackamas	Early and Late	Threatened	0-2000(Category 0), 2000-2300(Category 1), 2300-3400(Category 2), 3400-6800(Category 3), >6800(Category 4)	Large
				Sandy River	Early and Late	Threatened	0-2000(Category 0), 2000-2300(Category 1), 2300-3400(Category 2), 3400-6800(Category 3), >6800(Category 4)	Large

Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Coast	Scappoose River	Late	Threatened	0- 1300(Category 0), 1300- 1500(Category 1), 1500- 2200(Category 2), 2200- 4400(Category 3), >4400(Category 3)	Medium
				Youngs Bay	Late	Threatened	0-700(Category 0), 700- 800(Category 1), 800- 1100(Category 2), 1100- 2200(Category 3), >2200(Category 4)	Small
				Big Creek	Late	Threatened	0-700(Category 0), 700- 800(Category 1), 800- 1100(Category 2), 1100- 2200(Category 3), >2200(Category 4)	Small
				Clatskanie	Late Type-N	Threatened	0- 1300(Category 0), 1300- 1500(Category 1), 1500- 2200(Category 2), 2200- 4400(Category 3), >4400(Category 3)	Medium

Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Gorge	Lower Gorge Tributaries	Late Type-N	Threatened	0-700(Category 0), 700-800(Category 1), 800-1100(Category 2), 1100-2200(Category 3), >2200(Category 4)	Small
				Hood River	Early Type-S	Threatened	0-1300(Category 0), 1300-1500(Category 1), 1500-2200(Category 2), 2200-4400(Category 3), >4400(Category 3)	Medium

Document: **ESA Recovery Plan for Lower Columbia River Coho Salmon, Lower Columbia River Chinook Salmon, Columbia River Chum Salmon, and Lower Columbia River Steelhead**

Author: NMFS

Document Year: **2013**

Link: http://www.westcoast.fisheries.noaa.gov/publications/recovery_planning/salmon_steelhead/domains/willamette_lowercol/lower_columbia/final_plan_documents/final_lcr_plan_june_2013_-corrected.pdf

Coho

<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 Target</u>	<u>Contribution</u>	<u>Target Persistence Probability</u>
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	Sandy River	Early and Late	Threatened	5685	Primary	High

Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	Cispus	Early and Late Type S and N	Threatened	2000	Primary	High
				Upper Cowlitz	Late - Type N	Threatened	2000	Primary	High
				Lower Cowlitz	Early and Late Type S and N	Threatened	3700	Primary	High
				Toutle NF	Late - Type N	Threatened	1900	Primary	High
				Coweeman	Late - Type N	Threatened	1200	Primary	High
				Tilton	Early and Late Type S and N	Threatened	NA	Stabalizing	Very Low
				Kalama	Late - Type N	Threatened	500	Contributing	Low
				NF Lewis	Early - Type S and N	Threatened	500	Contributing	Low
				EF Lewis	Early - Type S and N	Threatened	2000	Primary	High
				Toutle SF	Early - Type S	Threatened	1900	Primary	High
				Clackamas	Early and Late	Threatened	11232	Primary	Very High
				Salmon Creek		Threatened	NA	Stabalizing	Very Low
				Washougal	Late - Type N	Threatened	1500	Contributing	Moderate +
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Coast	Youngs Bay	Late	Threatened	7	Stabalizing	Very Low
				Big Creek	Late	Threatened	12	Stabalizing	Very Low
				Scappoose River	Late	Threatened	3208	Primary	Very High

Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Coast	Clatskanie	Late – Type N	Threatened	3201	Primary	Very High
				Elochoman/Skamokawa	Late – Type-N	Threatened	2400	Primary	High
				Grays/Chinoo	Late – Type-N	Threatened	2400	Primary	High
				Mill/Abernathy /Germany	Type-N	Threatened	1800	Contributing	Moderate
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Gorge	Upper Gorge/White Salmon	Late - Type N	Threatened	1900	Primary	High
				Upper Gorge/Hood River	Early Type S	Threatened	5162	Primary	High (2)
				Lower Gorge	Late - Type N	Threatened	1900	Primary	High

FOOTNOTES:

(1) Survival improvements indicate the percentage improvement (rounded to the nearest 10) in population survival needed to achieve target impacts and are derived from the cumulative values (baseline and target). For most populations this was calculated using the following equation: $[(1 - \text{CumulativeTarget}) - (1 - \text{CumulativeBaseline})] / [1 - \text{CumulativeBaseline}] \times 100$. For some Washington populations (Mill/Abernathy/Germany, Lower Cowlitz, Kalama, Upper Gorge), this equation yields a different result than that reported in 2010 by the LCFRB. Because, for populations that have a very low probability of persistence and require very large improvements, the Washington Management Unit Plan limited threat-specific reductions to 50 percent of the current impact as interim targets until the population response to improvements can be accurately gauged. For those populations, the numbers reported in this table are consistent with the LCFRB's recommendations rather than with the aforementioned equation. In addition, these cumulative impact numbers are not explicitly reported by ODFW in 2010 but are implicit in the modeling approach that Oregon recovery planners used to derive target impacts. For populations where the survival improvement needed is larger than 500 percent, this table does not report the exact value, for the reasons explained in Section 6.5. For Oregon populations designated as stabilizing (Youngs Bay and Big Creek), a survival improvement is shown because of improvements that are expected in tributary habitat, estuary conditions, and predation.

(2) Oregon's analysis indicates a low probability of meeting the delisting or objective of High persistence probability for this population.

Document: **Tucannon Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: http://www.nwcouncil.org/media/120068/Entire_Document.pdf

Coho

<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>
No Recovery Domain	NA	NA	N/A	Tucannon		Not Listed	Undefined	Undefined

FOOTNOTES:

(1) Nez Perce Tribe Coho Adult Return Goals -Goals are derived from various management plans as described in Appendix A. This table does not necessarily imply consensus by all management agencies but merely gives direction to managers who must workout the restoration and recovery of each specie and population over time through implementation of the plan.

Document: **Umatilla Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: <http://www.nwcouncil.org/media/120142/EntirePlan.pdf>

Coho

<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>Total Return</u>	<u>Natural Return</u>	<u>Hatchery Return</u>
No Recovery Domain	NA	NA	N/A	Umatilla		Not Listed	6000	1568	6000

FOOTNOTES:

(1) 1987 United States vs Oregon Subbasin Production Reports;

(2) 1990 NPPC Subbasin Plan

(3) EDT natural production estimates were derived from the PFC analysis in this this plan in Section 3.6.1.2. Total return objectives using the EDT tool are under development by fisheries managers.

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>

Coho

<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>
No Recovery Domain	NA	NA	Grande-Ronde-Imnaha	Salmon			20000
				Grande Ronde			3500
No Recovery Domain	NA	NA	N/A	Tucannon			Undefined
				Clearwater			14000

FOOTNOTES:

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

Document: **Draft Clearwater Subbasin Management Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: <http://www.nwcouncil.org/media/19923/managementplan.pdf>

Coho

<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>
No Recovery Domain	NA	NA	N/A	Clearwater			14000	Undefined

Document: **Lower Columbia Salmon Recovery and Fish and Wildlife Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: <http://www.nwcouncil.org/media/6865748/RP.pdf>

Coho

<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 Goal</u>	<u>Viability Goal</u>	<u>Scenerio Contribution</u>
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	NF Lewis	Early - Type S and N	Threatened	600	High	Contributing
				Lower Cowlitz	Early and Late Type S and N	Threatened	600	High	Primary
				Upper Cowlitz	Late - Type N	Threatened	300	Medium	Contributing
				Cispus	Early and Late Type S and N	Threatened	300	Medium	Contributing
				Tilton	Early and Late Type S and N	Threatened	150	Low	Contributing
				Toutle SF	Early - Type S	Threatened	600	High	Primary
				Toutle NF	Late - Type N	Threatened	600	High	Primary
				Kalama	Late - Type N	Threatened	300	Medium	Contributing
				Sandy River	Early and Late	Threatened	NA	High+	Primary
				EF Lewis	Early - Type S and N	Threatened	600	High	Primary
Coweeman	Late - Type N	Threatened	600	High	Primary				

Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	Washougal	Late - Type N	Threatened	300	Medium	Contributing
				Salmon		Threatened	75	Very Low	Stabilizing
				Clackamas	Early and Late	Threatened	NA	High+	Primary
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Coast	Big Creek	Late	Threatened	NA	High	Primary
				Scappoose River	Late	Threatened	NA	High	Primary
				Clatskanie	Late - Type N	Threatened	NA	Low	Stabilizing
				Elochoman/Sk amokawa	Late - Type-N	Threatened	600	High	Primary
				Grays/Chinoo	Late - Type-N	Threatened	600	High	Primary
				Mill/Abernathy /Germany	Type-N	Threatened	300	Medium	Contributing
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Gorge	Youngs	Late	Threatened	NA	Low	Stabilizing
				White Salmon		Threatened	150	Low	Contributing
				Lower Gorge (Hamilton)	Late - Type N	Threatened	600	High	Primary
				Hood River	Early Type S	Threatened	NA	Medium	Contributing
				Upper Gorge (Wind)	Late - Type N	Threatened	600	High	Primary

Document: **Grays Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: http://www.nwcouncil.org/media/21265/Vol_II_C_Grays.pdf

Coho

<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>Number Objective</u>	<u>Viability Objective</u>
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Coast	Grays/Chinoo	Late-run (Type-N)	Threatened	600	High

NOTES:
Primary population in recovery scenario

Document: **Elochoman, Skamakowa, Mill, Abernathy, and Germany Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: http://www.nwcouncil.org/media/119235/Vol_II_D_Eloch_MAG.pdf

Coho

<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>Number Objective</u>	<u>Viability Objective</u>
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Coast	Elochoman/Skamakowa	Late-run (Type-N)	Threatened	600	High

NOTES:
Primary population in recovery scenario

Document: **Cowlitz, Coweeman, and Toutle Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: http://www.nwcouncil.org/media/119238/Vol_II_E_Cowlitz.pdf

Coho

<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>Number Objective</u>	<u>Viability Objective</u>
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	Lower Cowlitz	Late-run (Type-N)	Threatened	600	High

NOTES:
Primary population in recovery scenario

Document: **Kalama Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: http://www.nwcouncil.org/media/21268/Vol_II_F_Kalama.pdf

Coho

<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>Number Objective</u>	<u>Viability Objective</u>
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	Kalama	Late-run (Type-N)	Threatened	300	Medium

NOTES:
Contributing population in recovery scenario

Document: **NF and EF Lewis Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: http://www.nwcouncil.org/media/119241/Vol_II_G_Lewis.pdf

Coho

<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>Number Objective</u>	<u>Viability Objective</u>
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	EF Lewis	Early-run (Type-S)and Late-run (Type-N)	Threatened	600	High
				NF Lewis (Lower)	Early-run (Type-S)and Late-run (Type-N)	Threatened	300	Medium
				NF Lewis (Upper)	Early-run (Type-S)and Late-run (Type-N)	Threatened	300	Medium

NOTES:
Primary population in recovery scenario

Document: **Lower Columbia Tributaries: Bonneville and Salmon Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: http://www.nwcouncil.org/media/21271/Vol_II_H_L_Columbia_Tribs.pdf

Coho

<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>Number Objective</u>	<u>Viability Objective</u>
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Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Gorge	Lower Gorge Tributaries	Late-run (Type- N)	Threatened	600	High
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NOTES:
Primary population in recovery scenario

Document: **Washougal Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: http://www.nwcouncil.org/media/21274/Vol_II_I_Washougal.pdf

Coho

<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>Number Objective</u>	<u>Viability Objective</u>
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	Washougal	Late-run (Type- N)	Threatened	300	Medium

NOTES:
Contributing population in recovery scenario

Document: **Wind Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: http://www.nwcouncil.org/media/21277/Vol_II_J_Wind.pdf

Coho

<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>Number Objective</u>	<u>Viability Objective</u>
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Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Gorge	Wind	Late-run (Type- N)	Threatened		600	High
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NOTES:
Primary population in recovery scenario

Document: **Upper Gorge Tributaries Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: http://www.nwcouncil.org/media/21283/Vol_II_L_Gorge_Tribs.pdf

Coho

<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>Number Objective</u>	<u>Viability Objective</u>
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Gorge	Upper Gorge	Late-run (Type- N)		600	High

NOTES:
Primary population in recovery

Document: **White Salmon Subbasin Plan**

Author: Northwest Power and Conservation Council and Partners

Document Year: **2004**

Link: <http://www.nwcouncil.org/media/116777/EntirePlan.pdf>

Coho

<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</u>	<u>Productivity</u>	<u>Diversity Index %</u>	<u>Capacity</u>
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Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Gorge	White Salmon	Late - Type N	Threatened	Short-Term: 952, Long-Term: 1227	Short-Term: 2, Long-Term: 3	Short-Term: 15, Long-Term: 57	Short-Term: 1898, Long-Term: 1828
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NOTES:
WDFW objectives
Short-term biological objective under dam removal
Long-term biological objective under dam removal and PFC

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

Coho

<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>Adult Returns: Adult Returns (Natural Spawners)</u>	<u>Spawner to Spawner</u>	<u>Population Viability Status</u>
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	East Fork Lewis River	Early	Threatened	600	NA:600(10)	NA	High
				Lower Cowlitz River	Late	Threatened	600	NA:600(10)	NA	High
				Cowlitz	Late	Threatened	NA	3150(9):NA	NA	NA
				Washougal	Late	Threatened	600	NA:300(10)	NA	Medium
				Kalama	Late	Threatened	600	NA:300(10)	NA	Medium
				Coweeman	Late	Threatened	600	NA:600(10)	NA	High
				Upper Cowlitz	Late	Threatened	600	NA:300(10)	NA	Medium
				North Fork Toutle	Late	Threatened	600	NA:600(10)	NA	High

Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Cascade	Cispus River	Late	Threatened	600	NA:300(10)	NA	Medium
				South Fork Toutle	Late	Threatened	600	NA:600(10)	NA	High
				Lewis	Early	Threatened	NA	1200(9):NA	NA	NA
				North Fork Lewis River	Early	Threatened	600	NA:600(19)	NA	High
				Sandy	Early and Late	Threatened	NA		NA	High
				Tilton River	Late	Threatened	600	NA:150(10)	NA	Low
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Coast	Grays	Late	Threatened	600	NA:600(10)	NA	High
				Elochoman	Late	Threatened	600	NA:600(10)	NA	High
Willamette Lower Columbia	Lower Columbia River	Lower Columbia River Coho	Gorge	White Salmon	Late	Threatened	NA	470(9):NA	NA	NA
No Recovery Domain	NA	NA	N/A	Methow	NA	NA	NA	NA:1500 (8,10)	NA	NA
				Grande Ronde	NA	NA	NA	3500:1000(4,10)	NA	NA
				Clearwater	NA	NA	NA	14000 (1,4,9):NA	NA	NA
				Umatilla	NA	NA	NA	6000 (1,9):1568(10)	NA	NA
				Wenatchee	NA	NA	NA	NA:1500 (8,9)	NA	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
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