NORTH AMERICAN
Salmon Stronghold
PARTNERSHIP

Washington Coast Region
Salmon Population Ratings 2009

With support from:

THE WILD SALMON CENTER

WASHINGTON COAST SUSTAINABLE SALMON PARTNERSHIP

National Fish and Wildlife Foundation

Mitsubishi Corporation Foundation
FOR THE AMERICAS

Draft Results

April 5, 2010

Summary: Between August 2009 and March 2010, Wild Salmon Center (WSC) conducted independent technical consultations with co-managers and stakeholders of the Washington Coast Recovery Region to identify experts and gather population ratings. To date, over 40 experts have been solicited and a total of 19 have provided independent ratings. WSC and the North American Salmon Stronghold Partnership held two workshops (Montesano/Forks, WA) to present draft population ratings and stimulate group review and support of mapped results. 51 individuals participated in the workshops.

Expert ratings were provided by: WDFW, NOAA, Quinault Indian Nation, Lower Elwah Klallam Tribe, Quileute Tribe, Hoh Tribe, Grays Harbor Lead Entity, Pacific County Lead Entity, commercial fisherman, and independent consultants. Additional ratings are forthcoming.

A primary outcome of this effort was to increase awareness among regional stakeholders for the salmon stronghold analytical approach. The diversity of representatives that participated in this project, including those listed above, indicates success achieving this outcome and includes: ONPS, USFWS, USFS, USDA, WA DNR, WB RFEG, GSRO, SRFB, CBESD, Chehalis Confederated Tribes, City of McCleary, County Commissioners, Forks High School, North Olympic Peninsula Lead Entity, Surfrider Foundation, The Nature Conservancy, Cascade Land Conservancy, and Hoh River Trust.

Number of populations rated: 133

Number of raters: 19

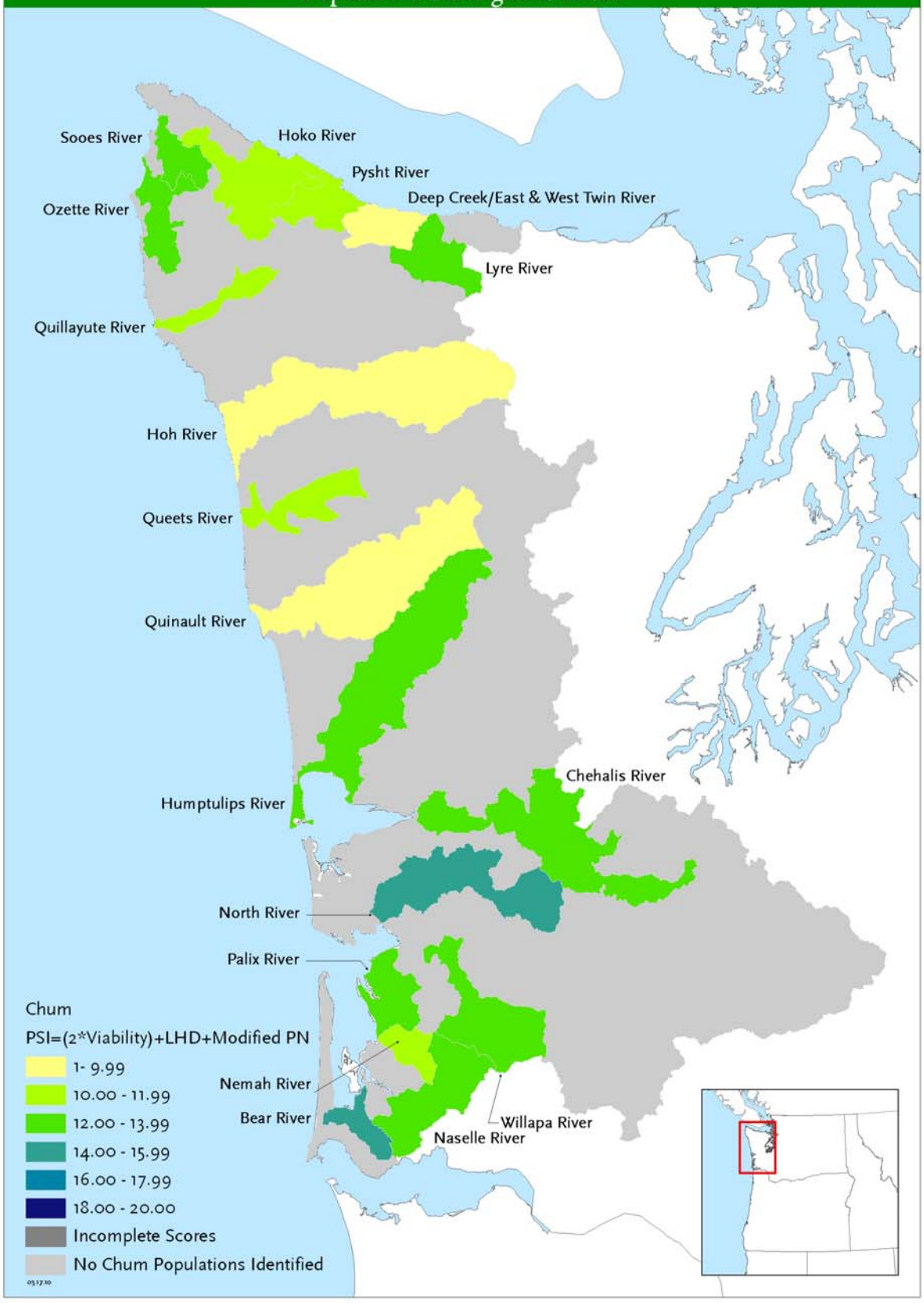
Number of populations per rater: 7

Area covered: 3,750,025 acres

Human Population: 179,700

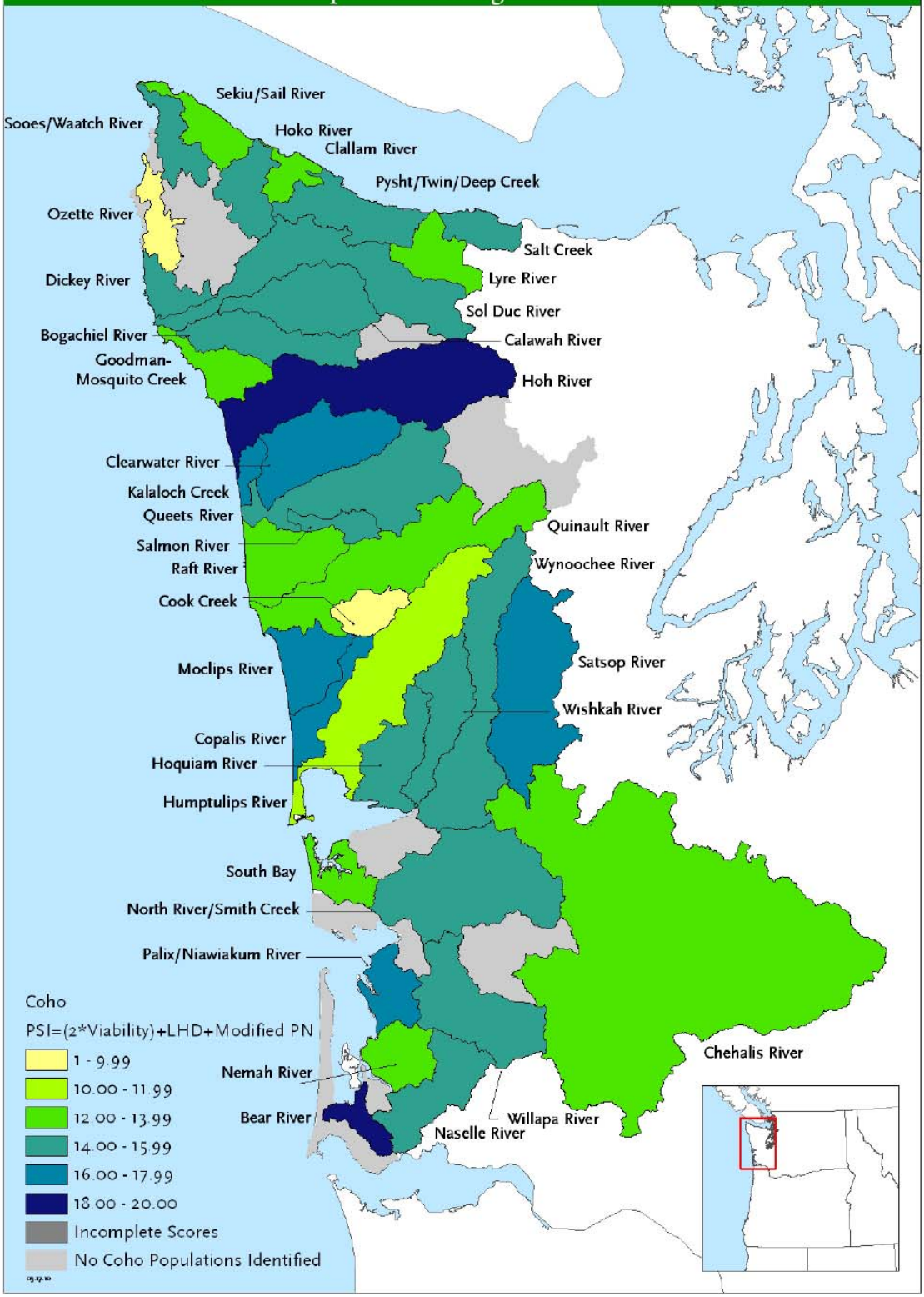
Washington Coast Chum Populations

Population Stronghold Index



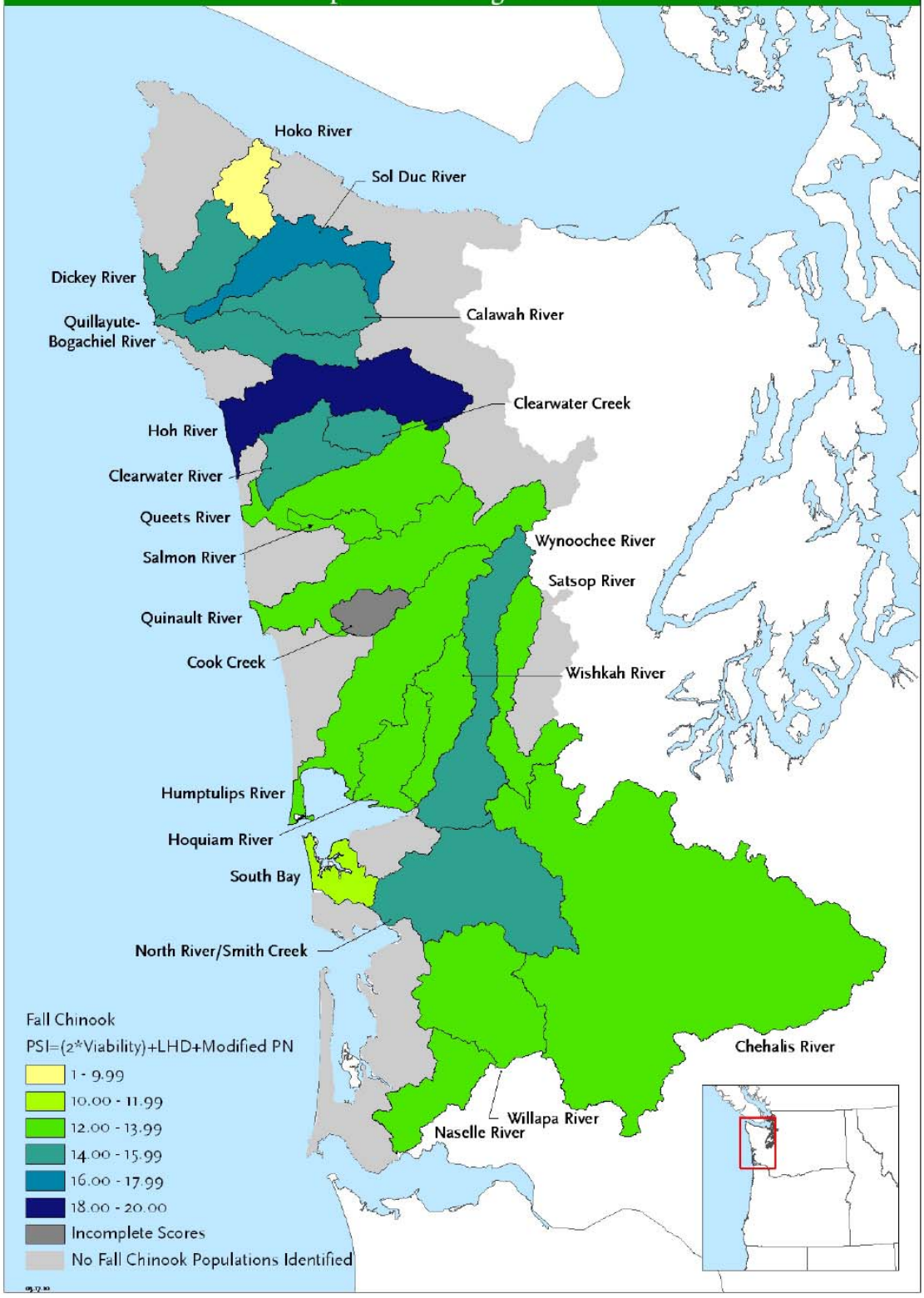
Washington Coast Coho Populations

Population Stronghold Index



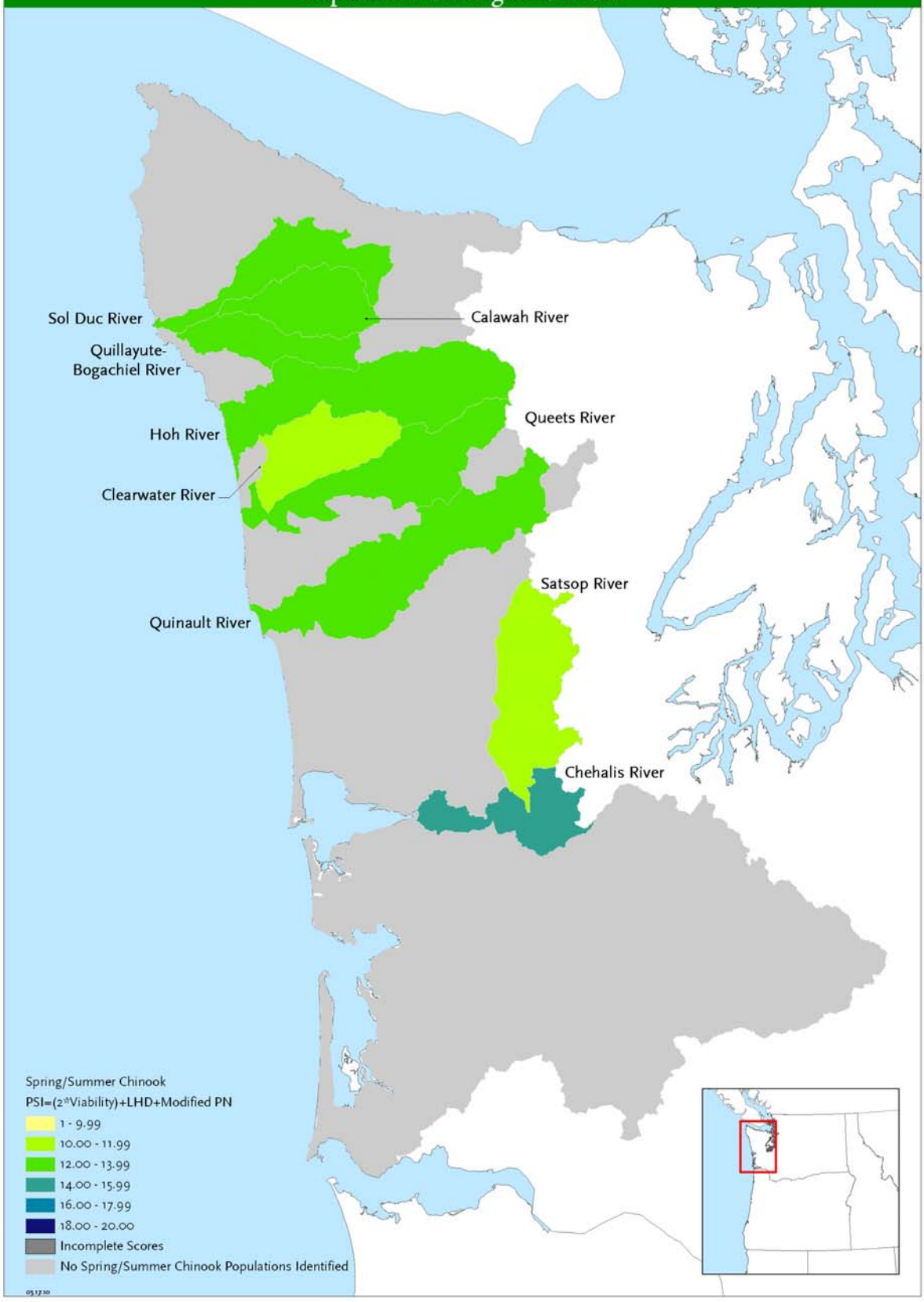
Washington Coast Fall Chinook Populations

Population Stronghold Index



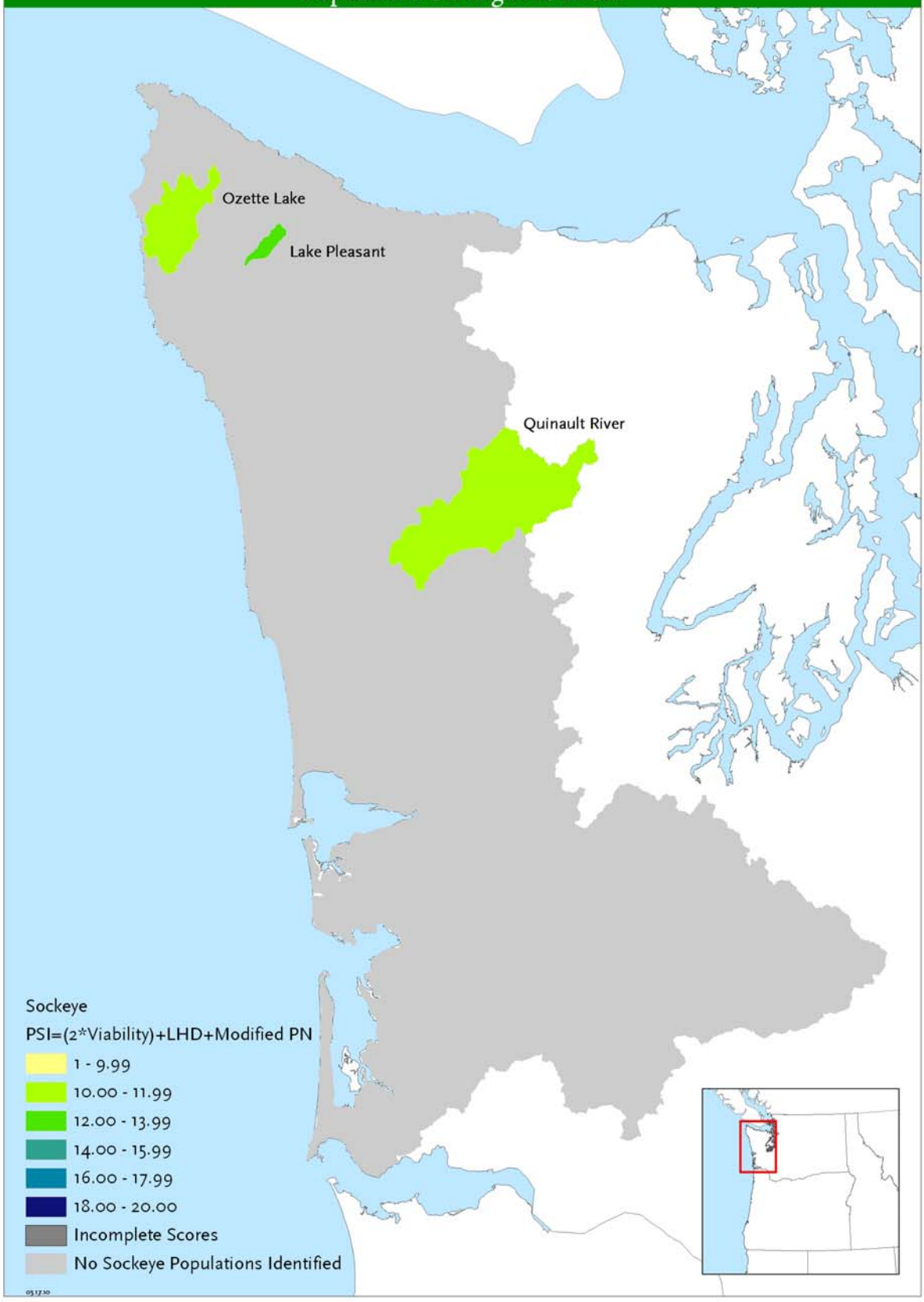
Washington Coast Spring/Summer Chinook Populations

Population Stronghold Index



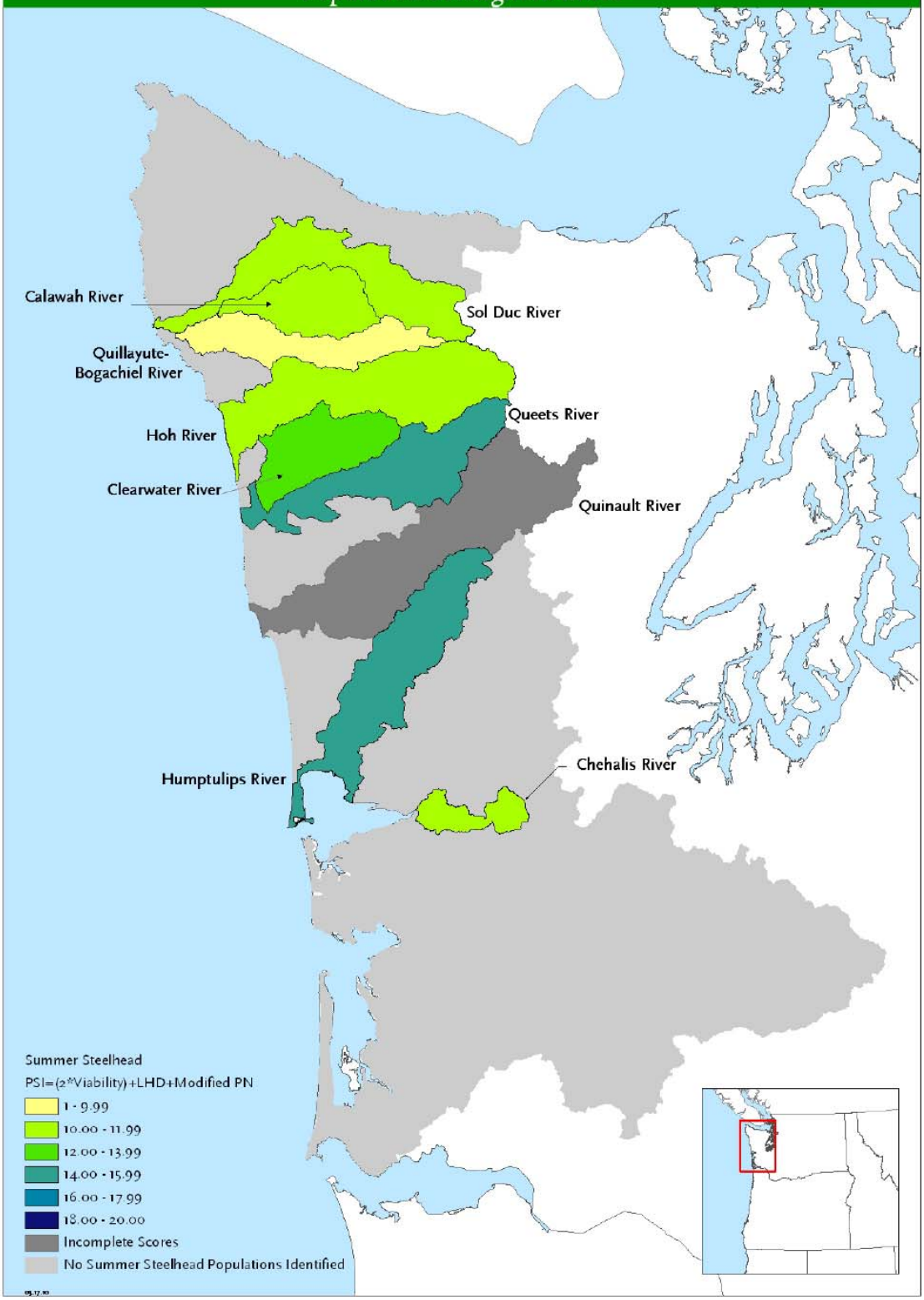
Washington Coast Sockeye Populations

Population Stronghold Index



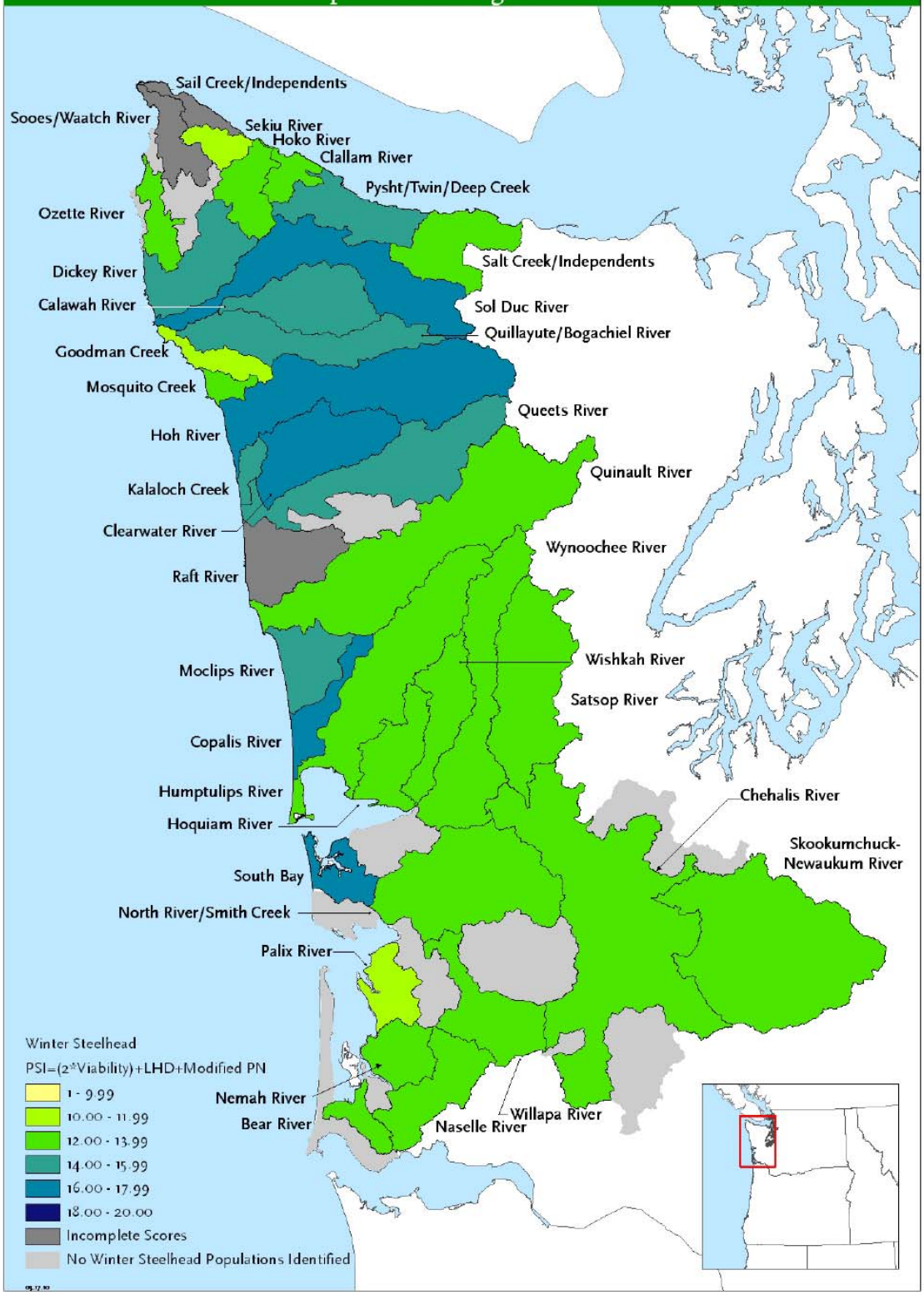
Washington Coast Summer Steelhead Populations

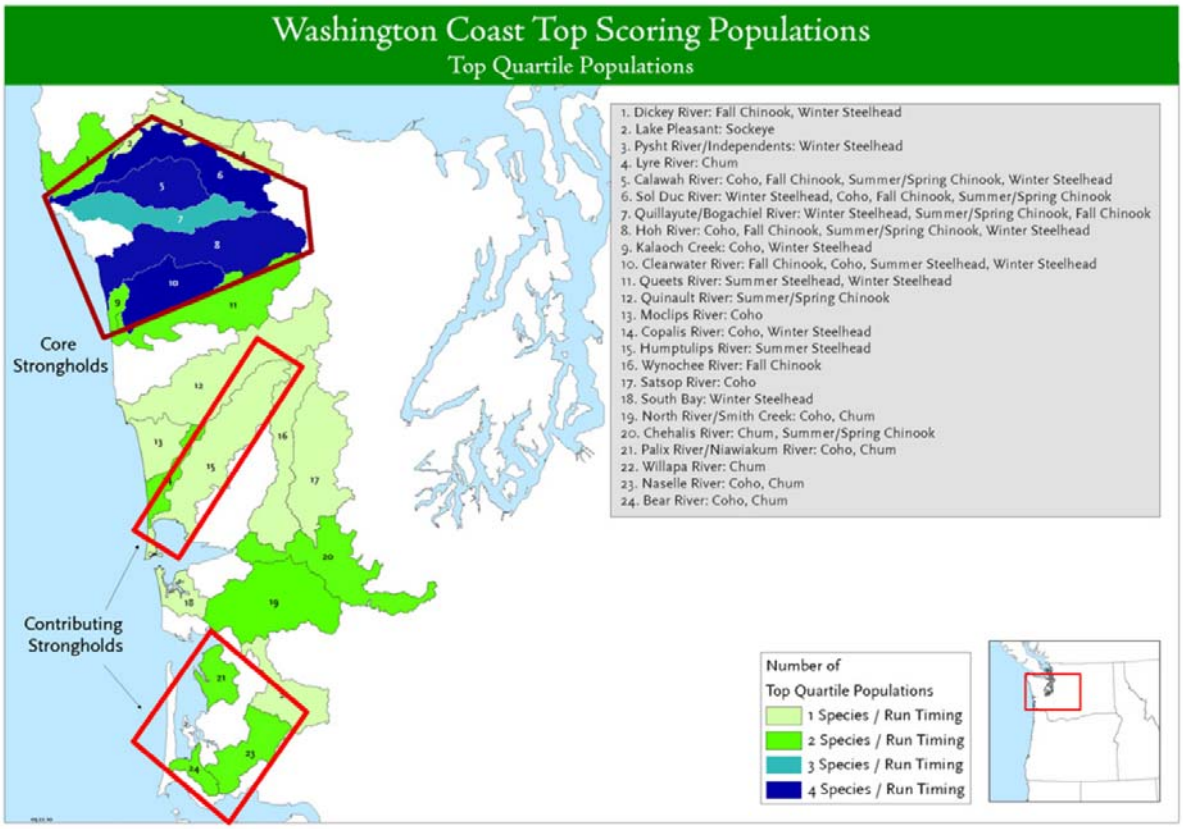
Population Stronghold Index



Washington Coast Winter Steelhead Populations

Population Stronghold Index




Washington Coast Top Scoring Populations
Top Quartile Populations
1. Dickey River: Fall Chinook, Winter Steelhead
2. Lake Pleasant: Sockeye
3. Pysht River/Independents: Winter Steelhead
4. Lyre River: Chum
5. Calawah River: Coho, Fall Chinook, Summer/Spring Chinook, Winter Steelhead
6. Sol Duc River: Winter Steelhead, Coho, Fall Chinook, Summer/Spring Chinook
7. Quillayute/Bogachiel River: Winter Steelhead, Summer/Spring Chinook, Fall Chinook
8. Hoh River: Coho, Fall Chinook, Summer/Spring Chinook, Winter Steelhead
9. Kalaoch Creek: Coho, Winter Steelhead
10. Clearwater River: Fall Chinook, Coho, Summer Steelhead, Winter Steelhead
11. Queets River: Summer Steelhead, Winter Steelhead
12. Quinault River: Summer/Spring Chinook
13. Moclips River: Coho
14. Copalis River: Coho, Winter Steelhead
15. Humptulips River: Summer Steelhead
16. Wynochee River: Fall Chinook
17. Satsop River: Coho
18. South Bay: Winter Steelhead
19. North River/Smith Creek: Coho, Chum
20. Chehalis River: Chum, Summer/Spring Chinook
21. Palix River/Niawiakum River: Coho, Chum
22. Willapa River: Chum
23. Naselle River: Coho, Chum
24. Bear River: Coho, Chum
Core Strongholds
Contributing Strongholds
Number of Top Quartile Populations
1 Species / Run Timing
2 Species / Run Timing
3 Species / Run Timing
4 Species / Run Timing

Instructions and Guidelines

The purpose of this document is to provide general guidance in filling out the following two worksheets for rating 133 salmon and steelhead populations associated with the Washington Coast region.

Using the Excel Workbook:

The first worksheet (TAB 3) contains a list of 117 of 117 populations associated with the Seasonal Upwelling Cline Salmon Ecoregion. The second worksheet (TAB 4) contains a list of 16 of 181 populations associated with the Puget Sound-Georgia Basin Salmon Ecoregion.

Populations can be sorted to the reviewer's preference using the drop-down sorting feature provided in the title cell which is shaded in black. To provide a rating, please click in the appropriate cell and use the drop down menu to make the best selection from the choices available. Any comments or references to supporting material should be captured in the "Sources" and "Comments" columns. Appendices A through G contain reference material and maps to assist the reviewer in the rating process.

General Guidelines for Rating:

- When rating a population, consider condition over *the last 10 years* (i.e., do not rate relative to historic conditions)
    - **except,** when rating "Life History Diversity" where a historical benchmark of <35 years should be considered in addition to the condition over *the last 10 years*
- Each population rating should be relative to other populations of the same species/race within the *context of its associated ecoregion* (Appendix A)
    - when an ecoregion contains more than one ESU, population ratings should first be relative to the ecoregion and then *relative to its associated ESU* (Appendices C - G)
- Rate only the populations you are familiar with or have empirical data to support
- Provide sources and comments to the fullest extent possible
- Finally, should the reviewer determine that a population is missing or is unsatisfactorily represented (e.g., lumping vs. splitting), please use the extra rows provided at the end of the population lists to provide additional or amended information. Please be clear as to why this suggestion should be considered and provide references to supporting material in the "Sources" and "Comments" columns.

Rating Criteria: Experts are asked to rate populations based upon four criteria.

- **Abundance**
- **Productivity**
- **Percent Natural Origin Spawners**
- **Life History Diversity**

For each rating provided the reviewer shall also rate his/her level of certainty from 0 to 5, as explained in the table below.

Expert Certainty		
Rating	**Descriptor**	**Definition**
5	Excellent	Expert is very certain
4	Very Good	Expert is mostly certain
3	Good	Expert is moderately certain
2	Fair	Expert is less than certain
1	Poor	Expert is not certain
0	Unknown	Expert has no knowledge

Abundance: Abundance is the total number of individuals of hatchery and/or natural origin in the independent population at a given life stage or time. It is generally measured in terms of population size.

Rating Scale:
5 = High (consistently)
4 = Above Moderate
3 = Moderate
2 = Below Moderate
1 = Low (chronically)
0 = no data or knowledge

Productivity: Productivity, or growth rate, represents the potential for the population to increase or maintain its abundance over time. It is generally measured as recruits per spawner.

Rating Scale:
5 = High (consistently)
4 = Above Moderate
3 = Moderate
2 = Below Moderate
1 = Low (chronically)
0 = no data or knowledge

Abundance and productivity ratings will be averaged for each population for a final viability rating. These criteria can be difficult to rate consistently. Please consider the following suggestions to help improve the standardization of ratings for viability and provide detailed rationale in the comments for a rating when a "4" or "5" is selected.

Considerations when rating a population a "5":

- Within its ecoregion and ESU, the population contributes a **significant** amount to overall abundance and productivity (e.g., population x contributes 30% to the overall x of coastal Chinook);
- The population may be a source of colonizers to smaller, less productive populations during times of high abundance;
- The recent trend shows maintained or improving abundance and productivity; or
- The population has high abundance/productivity relative to its habitat capacity. For a watershed of its size, this population has returns that consistently are within the range of natural variation.

Considerations when rating populations a "4":

- The population contributes a significant amount to overall abundance and productivity within the ecoregion, but not the most;
- For some years, the population may have higher than average abundance and/or productivity levels, but generally not the highest; or
- The recent trend for this population may be stable, increasing, or decreasing, but overall is thought to be "on the high-side of moderately viable."

Considerations when rating populations a "3":

- Periodically may have high abundance or productivity relative to habitat capacity.

Considerations when rating populations a "2":

- Low abundance and productivity in relation to current habitat capacity.

Considerations when rating populations a "1":

- Obviously not viable. Usually displaying critically low abundance, although productivity may be low or high, there simply are not enough spawners to allow the population to be considered viable, on a species-by-species basis.

Percent Natural Origin Spawners (PN): Percent of adult fish on the spawning grounds in recent generations that are of natural origin.

Most often documented as marked (i.e., hatchery origin) fish versus unmarked (i.e., natural origin) fish identified on the spawning grounds, but may also be determined by genetic assessments and other means. Please note in the "Comments" column the means by which this population is evaluated (e.g., fish are marked; half of the fish are marked) and what year that evaluation was last conducted.

Rating scale:

5 = 95-100% (no hatchery releases within recent generations and generally less

than 5% hatchery straying on spawning grounds)

4 = 75-94%
3 = 50-74%
2 = 25-49%
1 = 0-24%
0 = no data or knowledge

Life History Diversity (LHD): Diversity of life history strategies expressed within the population at any life stage relative to the historical range as well as the range expressed across all populations within the same species/race.

For example: Hoh River Winter Steelhead might have a high rating because of a protracted river entry timing, protracted spawning timing, diverse ages at first maturity, diverse ages at smolting, significant percentages and multiple ages of repeat spawners.

Criteria:

5 = Multiple and/or rare life history strategies
4 = Majority of historical and species/race life history strategies present
3 = Few live history strategies present, reduced from historical
2 = Single life history strategy, reduced from historical
1 = no data
0 = unknown to expert

Guidelines for sources:

Provide sources to any relevant information that backs up your rating(s). These can be agency reports, published articles or documents, unpublished reports, survey data, or web-based data. If there is no documented information to support the rating(s), please make sure that your level of certainty is captured in the "Expert Certainty" score.

Guidelines for comments:

Please provide any comments that you think are necessary to clarify your rating(s). These are important. If you need more space, please put comments in a Word document, noting the population that it refers to.

Questions? Please contact:

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1			Abundance				Productivity				Viability				Life History Diversity				Percent Natural				
2	Population	# Reviewers	Med	Min	Max	Rng	Med	Min	Max	Rng	Med	Min	Max	Rng	Med	Min	Max	Rng	Med	Min	Max	Rng	PSI
4	Bear River Coho	3	3	2	4	2	4	3	4	1	3	3	4	1	5	4	5	1	5	3	5	2	18
5	Bear River Fall Chum	3	2	1	3	2	3	3	4	1	2.5	2.5	3	0.5	4	2	5	3	5	1	5	4	15
6	Bear River Winter Steelhead	4	2	1	4	3	3.5	2	4	2	2.5	2	4	2	4.5	4	5	1	4.5	1	5	4	13.5
7	Bogachiel River Fall Coho	3	4	3	4	1	4	4	4	0	4	3.5	4	0.5	4	4	5	1	4	4	5	1	15
8	Calawah River Fall Chinook	3	3	3	3	0	3	3	4	1	3	3	3.5	0.5	4	4	5	1	5	5	5	0	15
9	Calawah River Fall Coho	2	3.5	3	4	1	4	4	4	0	3.75	3.5	4	0.5	4.5	4	5	1	4.5	4	5	1	15.5
10	Calawah River Summer Chinook	3	2	2	2	0	3	2	3	1	2.5	2	2.5	0.5	4	3	4	1	4	4	5	1	13
11	Calawah River Summer Steelhead	2				0				0				0				0				0	10
12	Calawah River Winter Steelhead	3	4	3	4	1	4	3	4	1	3.5	3.5	4	0.5	4	4	5	1	4	4	5	1	15
13	Chehalis River Coho	5	3	3	4	1	3	3	4	1	3	3	4	1	4	3	4	1	4	3	4	1	13
14	Chehalis River Fall Chinook	6	3	2	4	2	3	2	4	2	3	2	4	2	4	3	4	1	4.5	3	5	2	13
15	Chehalis River Fall Chum	3	2	1	2	1	2	1	2	1	2	1	2	1	4	3	4	1	5	4	5	1	13
16	Chehalis River Spring Chinook	5	3	1	3	2	3	1	4	3	3	1	3.5	2.5	4	3	4	1	5	3	5	2	15
17	Chehalis River Summer Steelhead	4	2.5	1	4	3	2	1	3	2	2.25	1	3.5	2.5	4	4	4	0	2	1	4	3	10
18	Chehalis River Winter Steelhead	5	3	3	4	1	3	2	3	1	3	2.5	3.5	1	4	3	4	1	4	3	5	2	13
19	Clallam River Coho	2	3	3	3	0	3	3	3	0	3	3	3	0	4	4	4	0	4.5	4	5	1	13
20	Clallam River Steelhead	3	3	1	3	2	3	2	3	1	3	1.5	3	1.5	4	4	4	0	4	4	5	1	13
21	Clearwater River Coho	2	3.5	3	4	1	3.5	3	4	1	3.5	3	4	1	4.5	4	5	1	5	5	5	0	16.5
22	Clearwater River Fall Chinook	3	3	3	3	0	3	3	4	1	3	3	3.5	0.5	4	4	5	1	5	5	5	0	15
23	Clearwater River Spring/Summer Chinook	3	2	1	2	1	1	1	2	1	1.5	1	2	1	3	3	4	1	5	5	5	0	10
24	Clearwater River Summer Steelhead	3				0				0				0				0	5	5	5	0	12
25	Clearwater River Winter Steelhead	3	4	3	4	1	3	3	4	1	3.5	3	4	1	4.5	4	5	1	5	5	5	0	17.5
26	Cloqualum Coho	1	2	2	2	0	2	2	2	0	2	2	2	0	3	3	3	0	5	5	5	0	9
27	Cook Creek Coho	2	2	2	2	0	2	2	2	0	2	2	2	0	4	4	4	0	1	1	1	0	
28	Cook Creek Fall Chinook	1	3	3	3	0	3	3	3	0	3	3	3	0	4	4	4	0				0	17
29	Copalis River Coho	3	3.5	3	4	1	4	4	4	0	3.5	3	4	1	4	4	4	0	5	5	5	0	17
30	Copalis River Steelhead	2	4	4	4	0	4	4	4	0	4	4	4	0	4	4	4	0	5	5	5	0	8.5
31	Deep Creek/East & West Twin River Fall C	2	1	1	1	0	1	1	1	0	1	1	1	0	1.5	1	2	1	5	5	5	0	15
32	Dickey River Fall Chinook	3	2	2	3	1	3	2	3	1	2.5	2	3	1	4	4	4	0	5	5	5	0	15
33	Dickey River Fall Coho	2	4	4	4	0	4	4	4	0	4	4	4	0	4	4	4	0	4.5	4	5	1	15
34	Dickey River Winter Steelhead	3	2	2	3	1	3	3	3	0	2.5	2.5	3	0.5	4	4	4	0	5	4	5	1	11
35	Goodman Creek Winter Steelhead	2	2.5	2	3	1	2.5	2	3	1	2.5	2	3	1	3	3	3	0	3	3	3	0	12
36	Goodman/Mosquito Creek Coho	1				0				0				0	1	1	1	0				0	19
37	Hoh River Coho	3	4	3	5	2	5	3	5	2	4.5	3	5	2	4	4	5	1	5	5	5	0	18
38	Hoh River Fall Chinook	3	4	3	5	2	4	4	5	1	4	3.5	5	1.5	5	4	5	1	5	5	5	0	8
39	Hoh River Fall Chum	3	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	0	5	5	5	0	13
40	Hoh River Spring/Summer Chinook	4	3	2	4	2	3	2	4	2	3	2	4	2	4	4	5	1	4.5	4	5	1	10
41	Hoh River Summer Steelhead	3	2	2	2	0	3	3	3	0	2.5	2.5	2.5	0	1	1	1	0				0	16
42	Hoh River Winter Steelhead	4	4	3	5	2	4	3	4	1	3.75	3.5	4.5	1	5	3	5	2	4	4	5	1	14
43	Hoko River Coho	2	3.5	3	4	1	3.5	3	4	1	3.5	3	4	1	4	4	4	0	4.5	4	5	1	9.5
44	Hoko River Fall Chinook	2	2.5	2	3	1	2	2	2	0	2.25	2	2.5	0.5	2.5	2	3	1	3	3	3	0	13
45	Hoko River Steelhead	3	3	2	3	1	3	2	3	1	3	2	3	1	4	4	4	0	4	3	5	2	10.5
46	Hoko/Clallam/Seiku River Fall Chum	2	2	2	2	0	1.5	1	2	1	1.25	0.5	2	1.5	1.5	1	2	1	5	5	5	0	14
47	Hoquiam River Coho	4	3	3	4	1	3.5	3	4	1	3.25	3	4	1	4	1	4	3	4.5	4	5	1	13
48	Hoquiam River Fall Chinook	5	2	1	3	2	2	1	3	2	2	1	3	2	4	3	4	1	5	3	5	2	13
49	Hoquiam River Winter Steelhead	5	2	1	3	2	3	1	3	2	2.5	1	3	2	4	1	4	3	4	2	5	3	11.5
50	Humptulips River Coho	4	3	1	4	3	3	2	5	3	3	1.5	4.5	3	3.5	1	4	3	2.5	1	5	4	13
51	Humptulips River Fall Chinook	5	3	3	4	1	3	3	4	1	3	3	3.5	0.5	4	3	4	1	3	2	5	3	12
52	Humptulips River Fall Chum	3	2	2	2	0	2	2	3	1	2	2	2.5	0.5	3	3	4	1	5	4	5	1	12.5

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1			Abundance				Productivity				Viability				Life History Diversity				Percent Natural				
2	Population	# Reviewers	Med	Min	Max	Rng	Med	Min	Max	Rng	Med	Min	Max	Rng	Med	Min	Max	Rng	Med	Min	Max	Rng	PSI
53	Humptulips River Steelhead	5	3	3	4	1	3	3	4	1	3	2	3.5	1.5	3.5	3	4	1	3.5	3	5	2	14
54	Humptulips River Summer Steelhead	5	2	2	3	1	2.5	2	3	1	2.5	1	2.5	1.5	4	4	4	0	5	5	5	0	17
55	Kalaloch Creek Coho	2	4	4	4	0	4	4	4	0	4	4	4	0	4	4	4	0	5	5	5	0	15
56	Kalaloch Creek Winter Steelhead	2	3	3	3	0	3	3	3	0	3	3	3	0	4	4	4	0	5	5	5	0	13
57	Lake Pleasant Sockeye	2	3	3	3	0	3	3	3	0	3	3	3	0	4	4	4	0	4.5	4	5	1	12
58	Lyre River Coho	2	3	3	3	0	2.5	2	3	1	2.75	2.5	3	0.5	4	4	4	0	4.5	4	5	1	13
59	Lyre River Fall Chum	2	3	3	3	0	2	2	2	0	2.5	2.5	2.5	0	4	4	4	0	5	5	5	0	16
60	Moclips River Coho	2	4	4	4	0	4	4	4	0	4	4	4	0				0	5	5	5	0	14
61	Moclips River Winter Steelhead	3	2.5	2	3	1	3	3	3	0	2	1	3	2				0	5	5	5	0	12
62	Mosquito Creek Winter Steelhead	2	2.5	2	3	1	2.5	2	3	1	2.5	2	3	1	4	4	4	0	4.5	4	5	1	15.5
63	Naselle River Coho	3	4	2	4	2	4	3	4	1	3.5	3	4	1	4.5	4	5	1	3	3	4	1	12
64	Naselle River Fall Chinook	4	3	2	4	2	3	3	4	1	3	3	3.5	0.5	4	3	5	2	2	1	4	3	13.5
65	Naselle River Fall Chum	3	2	1	3	2	3	2	4	2	2.5	2	3	1	4.5	4	5	1	4	1	5	4	13
66	Naselle River Steelhead	4	2	2	3	1	3	2	3	1	2.5	2	3	1	4	4	4	0	4	3	4	1	13.5
67	Nemah River Coho	3	4	1	4	3	3	1	4	3	3.5	1	4	3	4.5	4	5	1	2	2	4	2	11.5
68	Nemah River Fall Chum	3	2	1	2	1	2	1	2	1	2	1	2	1	4.5	4	5	1	4	1	5	4	13
69	Nemah River Steelhead	4	3	2	3	1	3	3	3	0	3	2.5	3	0.5	4	4	4	0	4	4	5	1	15.5
70	North River Fall Chum	3	2	1	2	1	3	2	4	2	2.5	2	2.5	0.5	4.5	4	5	1	5	1	5	4	15.5
71	North River/Smith Creek Coho	3	4	1	4	3	4	4	4	0	4	2.5	4	1.5	4.5	4	5	1	3	3	5	2	14
72	North River/Smith Creek Fall Chinook	3	2.5	2	3	1	2.5	2	3	1	2.5	2	3	1	4	4	4	0	5	5	5	0	13
73	North River/Smith Creek Winter Steelhead	4	2	2	3	1	3	3	3	0	2.5	2.5	3	0.5	4	4	4	0	4	4	5	1	13
74	Palix River Fall Chum	4	1.5	1	4	3	2.5	2	4	2	2	1.5	4	2.5	4	1	5	4	5	1	5	4	10
75	Palix River Winter Steelhead	5	1.5	1	3	2	2	1	3	2	1.75	1	3	2	4	3	4	1	4.5	4	5	1	17
76	Palix/Niawiakum River Coho	3	4	4	4	0	3.5	3	4	1	3.75	3.5	4	0.5	4	4	4	0	5	5	5	0	10.5
77	Pysht River Fall Chum	2	2	1	3	2	2.5	2	3	1	2.25	1.5	3	1.5	1.5	1	2	1	5	5	5	0	15
78	Pysht River/Independents Steelhead	3	3	2	3	1	3	2	3	1	3	2	3	1	4	4	4	0	5	4	5	1	14
79	Pysht/Twin/Deep Creek Coho	2	3.5	3	4	1	3	3	3	0	3.25	3	3.5	0.5	4	4	4	0	4.5	4	5	1	15
80	Queets River Coho	1	3	3	3	0	3	3	3	0	3	3	3	0	4	4	4	0	5	5	5	0	13
81	Queets River Fall Chinook	3	3	3	3	0	3	3	4	1	3	3	3.5	0.5	4	4	5	1	4	4	5	1	10
82	Queets River Fall Chum	2				0				0				0	1	1	1	0				0	12
83	Queets River Spring/Summer Chinook	3	1	1	2	1	2	2	3	1	2	1.5	2	0.5	3	3	4	1	5	5	5	0	14
84	Queets River Summer Steelhead	2				0				0				0	1	1	1	0				0	15
85	Queets River Winter Steelhead	3	4	3	4	1	4	3	4	1	4	3	4	1	4	4	5	1	4	4	5	1	10
86	Quillayute River Fall Chum	1				0				0				0	1	1	1	0				0	15
87	Quillayute/Bogachiel River Fall Chinook	3	3	3	4	1	3	3	4	1	3	3	4	1	4	4	5	1	5	5	5	0	13
88	Quillayute/Bogachiel River Summer Chinoc	3	2	2	2	0	3	2	3	1	2.5	2	2.5	0.5	4	3	4	1	4	4	4	0	8
89	Quillayute/Bogachiel River Summer Steelh	1				0				0				0	1	1	1	0				0	15.5
90	Quillayute/Bogachiel River Winter Steelhea	2	3.5	3	4	1	4	4	4	0	3.75	3.5	4	0.5	4.5	4	5	1	4	4	4	0	10
91	Quinault Lake Sockeye	3	2.5	1	4	3	1.5	1	2	1	2	1	3	2	3	3	3	0	3.5	2	5	3	12
92	Quinault River Coho	2	3.5	3	4	1	3.5	3	4	1	3.5	3	4	1	4	4	4	0	2.5	2	3	1	13
93	Quinault River Fall Chinook	3	3	3	4	1	3	3	4	1	3	3	4	1	4	3	4	1	3.5	3	4	1	7
94	Quinault River Fall Chum	2	1	1	1	0	2	2	2	0	1.5	1.5	1.5	0	4	4	4	0	2	2	2	0	13
95	Quinault River Spring/Summer Chinook	3	2	1	3	2	2	1	3	2	2.5	1	2.5	1.5	4	3	4	1	5	5	5	0	
96	Quinault River Summer Steelhead	2				0				0				0				0				0	13
97	Quinault River Winter Steelhead	4	3	2	3	1	3	3	3	0	3	2.5	3	0.5	4	3	4	1	4	3	5	2	12
98	Raft River Coho	2				0				0				0				0				0	
99	Raft River Winter Steelhead	3				0				0				0				0	3	3	3	0	
100	Sail Creek/Independents Steelhead	2				0				0				0				0				0	15
101	Salmon River Coho	3	4	2	4	2	4	3	4	1	4	2.5	4	1.5	4	3	4	1	3	2	4	2	13

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1			Abundance				Productivity				Viability				Life History Diversity				Percent Natural				
2	Population	# Reviewers	Med	Min	Max	Rng	Med	Min	Max	Rng	Med	Min	Max	Rng	Med	Min	Max	Rng	Med	Min	Max	Rng	PSI
102	Salmon River Fall Chinook	1	3	3	3	0	2	2	2	0	2.5	2.5	2.5	0	4	4	4	0	5	5	5	0	15
103	Salt Creek Coho	2	3.5	3	4	1	4	3	5	2	3.75	3.5	4	0.5	4	4	4	0	4.5	4	5	1	13
104	Salt Creek/Independents Steelhead	2	2.5	2	3	1	3	3	3	0	2.75	2.5	3	0.5	4	4	4	0	4.5	4	5	1	16
105	Satsop River Coho	4	3.5	3	4	1	3.5	3	4	1	3.5	3	4	1	4	4	4	0	3	2	4	2	13
106	Satsop River Fall Chinook	5	3	1	4	3	3	1	4	3	3	1	4	3	4	4	4	0	4	2	4	2	11
107	Satsop River Summer Chinook	4	1.5	1	3	2	2.5	1	3	2	2	1	3	2	4	4	4	0	4	2	5	3	13
108	Satsop River Winter Steelhead	5	3	2	4	2	3	3	4	1	3	2.5	4	1.5	4	4	4	0	4	4	4	0	11
109	Sekiu River Steelhead	3	2	2	2	0	2	2	2	0	2	2	2	0	4	4	4	0	4	4	4	0	12
110	Sekiu/Sail River Coho	2	2.5	2	3	1	2.5	2	3	1	2.5	2	3	1	4	4	4	0	4.5	4	5	1	12.5
111	Skookumchuck/Newaukum River Winter St	4	3	2	3	1	3	2	4	2	3	2	3.5	1.5	3.5	3	4	1	4	2	4	2	17
112	Sol Duc River Fall Chinook	3	4	3	4	1	3	3	4	1	3.5	3	4	1	4	4	5	1	5	4	5	1	16.5
113	Sol Duc River Fall Coho	2	4.5	4	5	1	4.5	4	5	1	4.5	4	5	1	4.5	4	5	1	4	4	4	0	13
114	Sol Duc River Spring/Summer Chinook	3	2	2	4	2	3	2	3	1	2.5	2	3.5	1.5	4	3	4	1	3	3	3	0	14.5
115	Sol Duc River Summer Coho	2	3.5	3	4	1	3	3	3	0	3.25	3	3.5	0.5	4.5	4	5	1	4	4	4	0	10
116	Sol Duc River Summer Steelhead	1				0				0				0				0				0	16
117	Sol Duc River Winter Steelhead	3	4	4	5	1	4	4	5	1	4	4	5	1	5	5	5	0	4	4	4	0	
118	Sooes/Waatch River Winter Steelhead	1				0				0				0				0	2	2	2	0	13
119	South Bay Coho	3	3	2	3	1	3	3	4	1	3	2.5	3.5	1	4	4	4	0	4.5	4	5	1	11.5
120	South Bay Fall Chinook	3	2	1	3	2	2	1	3	2	2	1	3	2	2.5	1	4	3	5	5	5	0	17
121	South Bay Winter Steelhead	2	4	4	4	0	4	4	4	0	4	4	4	0	4	4	4	0	5	5	5	0	15
122	Willapa River Coho	3	3	3	4	1	4	3	4	1	3.5	3	4	1	4	4	5	1	3	3	4	1	13
123	Willapa River Fall Chinook	4	3.5	3	4	1	3.5	3	4	1	3.5	3.5	3.5	0	4	3	5	2	2	1	4	3	13
124	Willapa River Fall Chum	5	1	1	2	1	3	1	4	3	2.5	1	2.5	1.5	4	3	5	2	4	1	5	4	13
125	Willapa River Winter Steelhead	3	3	2	3	1	3	3	3	0	3	2.5	3	0.5	4	4	4	0	4	4	5	1	14
126	Wishkah River Coho	4	3.5	2	4	2	3.5	3	4	1	3.5	2.5	4	1.5	4	3	4	1	4	3	5	2	13
127	Wishkah River Fall Chinook	5	2	1	3	2	3	1	3	2	2.5	1	3	2	4	3	4	1	4	3	5	2	13
128	Wishkah River Winter Steelhead	5	3	1	3	2	3	1	3	2	3	1	3	2	4	3	4	1	4	3	5	2	15
129	Wynoochee River Coho	4	3	2	4	2	3	3	4	1	3	2.5	4	1.5	4	3	4	1	5	4	5	1	15
130	Wynoochee River Fall Chinook	5	3	1	3	2	3	1	3	2	3	1	3	2	4	3	4	1	5	3	5	2	13
131	Wynoochee River Steelhead	5	3	2	4	2	3	2	3	1	3	2	3.5	1.5	4	2	4	2	3	2	4	2	
132																							
133																							
134	**2008 Scores Supplimented**																						
135	Goodman/Mosquito Creek Coho										3								5				12
136	Hoh River Summer Steelhead																		3				10
137	Moclips River Coho														3								16
138	Quillayute/Bogachiel River Summer Steelhead										2								4				8
139	Raft River Coho										3				3				3				12
140																							
141	**Not Scored in 2009, 2008 scores used**																						
142	Clearwater Creek Fall Chinook										3				4				5				15
143	Ozette Lake Sockeye										2				3				4				10
144	Ozette River Coho										2				2				3				9
145	Ozette River Fall Chum										2				3				5				12
146	Ozette River Steelhead										3				3				4				12
147	Sooes River Fall Chum										2				3				5				12
148	Sooes/Waatch River Coho										4				4				3				15