

Appendix H

Native Fish Distribution and Quantification of Effects

Table 1. FPHCP native fish covered species and Water Resource Inventory Area (WRIA) distribution. Table does not include bull trout.

Bridgelip Sucker	Burbot	Chiselmouth	Coastrange Sculpin	Cutthroat Trout (Coastal)	Cutthroat Trout (Westslope)	Dolly Varden	Kokanee Salmon	Lake Chub
WRIA								
22	31	26	1	1	34	1	1	42
23	33	27	3	2	37	3	11	49
24	37	30	4	3	38	4	16	50
26	40	31	5	4	39	20	18	52
27	44	33	7	5	44	21	19	53
28	46	34	8	6	45		20	58
30	47	37	9	7	46		21	59
31	48	38	10	8	47		22	60
32	49	39	11	9	48		27	61
33	50	40	12	10	49		29	
34	51	45	13	11	59		32	
35	53	46	14	12	60		34	
37		49	15	13	61		38	
38		51	16	14	62		39	
39		52	17	15			40	
43		53	18	16			44	
45		54	19	17			45	
47		55	20	18			46	
48		56	21	19			47	
49		57	22	20			48	
53		58	23	21			49	
60		59	24	22			50	
61		60	25	23			51	
		61	26	24			53	
		62	27	25			54	
			28	26			55	
				27			58	
				28			60	
				29			61	
				30			62	
				34				

Table 1. FPHCP native fish covered species and Water Resource Inventory Area (WRIA) distribution. Table does not include bull trout. (continued)

Largescale Sucker	Leopard Dace	Longfin Smelt	Longnose Dace	Longnose Sucker	Margined Sculpin	Mottled Sculpin	Mountain Sucker	Mountain Whitefish
WRIA								
1	26	8	1	31	32	31	26	3
3	27		3	37	35	33	27	4
4	28		5	40		37	30	5
5	32		7	45		39	33	10
7	33		8	46		45	35	11
8	35		9	47		52	37	16
9	37		10	48		53	38	18
10	45		11	49		54	39	20
11	49		13	50		55	45	21
12			21	51		61		22
13			22	52				26
21			23	53				27
22			24	54				29
23			25	55				30
24			26	56				32
25			27	57				35
26			28	58				37
27			29	59				38
28			30	60				39
29			32	61				40
30			35	62				41
31			37					44
32			38					45
33			39					46
34			48					47
35			48					48
37			49					49
38			52					50
39			55					52
43			58					53
47			59					54
48			60					55
49			61					58
52			62					59
53								60
54								61
55								62
56								
57								
59								
61								
62								

Table 1. FPHCP native fish covered species and Water Resource Inventory Area (WRIA) distribution. Table does not include bull trout. (continued)

Northern Pikeminnow	Olympic Mudminnow	Pacific Lamprey	Paiute Sculpin	Peamouth	Prickly Sculpin	Pygmy Whitefish	Rainbow Trout (Coastal)	Rainbow Trout, (Redband)
WRIA								
8	8	1	32	5	1	8	1	29
11	13	3	35	7	3	19	3	30
20	14	5	37	8	4	39	4	31
22	20	7	39	14	5	47	5	32
23	21	9	45	20	7	62	6	33
25	22	11		21	8		7	34
26	23	13		25	9		8	35
28		15		26	10		9	37
32		16		27	11		10	38
33		17		28	13		11	39
34		18		29	14		13	40
35		19		30	15		14	44
37		20		32	16		15	45
38		21		34	17		16	46
39		22		35	18		17	47
40		23		38	21		18	48
44		24		39	22		19	49
45		25		45	23		20	50
46		26		46	24		21	51
47		27		47	26		22	52
48		28		48	27		23	53
49		29		49	28		24	54
50		30		50	29		25	55
51		31		51	30		26	56
53		32		52	38		27	57
54		33		53	48		43	58
55		34		55	49			59
56		35		58	58			60
57		37		59	61			61
58		40		60				62
59		45		61				
60		47		62				
61		48						
62								

Table 1. FPHCP native fish covered species and Water Resource Inventory Area (WRIA) distribution. Table does not include bull trout. (continued)

2

Redside Shiner	Reticulated Sculpin	Riffle Sculpin	River Lamprey	Salish Sucker	Sandroller	Shorthead Sculpin	Slimy Sculpin	Speckled Dace
WRIA								
1	9	8	1	1	25	7	47	8
3	10	9	3	3	26	8	55	9
5	11	10	5	4	27	9	58	10
7	13	11	7	5	28	10	60	11
8	14	13	8	7	29	11	62	13
9	16	14	9	8	30	15		14
10	19	15	10	9	31	16		15
11	20	16	16	10	35	19		19
19	21	19	20	11	37	20		20
20	22	20	21	16	56	21		21
21	23	21	22			22		22
23	24	22	26			23		23
24	25	23	28			25		24
25	26	24	29			26		25
26	27	25	31			27		26
27	28	26	32			28		27
28	29		37			38		28
29			39			39		29
30						45		30
32						46		31
33						47		32
34						48		34
35						60		35
37								37
38								38
39								39
40								40
44								43
45								44
46								45
47								46
48								47
49								48
50								49
51								50
52								51
53								52
54								53
55								54
58								55
59								56
60								57
61								58
62								59

Table 1. FPHCP native fish covered species and Water Resource Inventory Area (WRIA) distribution. Table does not include bull trout. (continued)

Three-Spine Stickelback	Torrent Sculpin	Tui Chub	Umatilla Dace	Western Brook Lamprey	White Sturgeon
WRIA					
1	5	41	31	1	8
3	7		37	3	22
5	8		40	5	24
7	9		45	7	25
8	10		48	8	26
9	11		49	9	27
10	12		59	10	28
11	13		61	11	29
12	14			13	30
13	15			14	31
14	16			15	32
15	19			16	33
16	20			17	34
17	21			18	35
18	22			19	37
19	23			20	38
21	24			21	39
22	26			22	
23	27			23	
24	30			24	
25	32			26	
26	35			27	
27	45			29	
28	46			32	
29	47			35	
30	48			37	
31	49			39	
37	51				
40	52				
47	55				
	58				
	59				
	60				
	61				
	62				

Table 2. Quantification of the Effects of the Action, on FPHCP covered native fish, by FPHCP Covered Activities.

FPHCP Covered Native Fish Species

Dolly Varden

- Type F riparian management acres: 40,735
- Type Np riparian management acres: 21,679
 - Type F stream crossings: 2,308
 - Type Np stream crossings: 1,270
 - Type F riparian roads: 317 miles (1,536 acres)
 - Type Np riparian roads: 140 miles (678 acres)

Coastal cutthroat trout

- Type S riparian management acres: 138,429
- Type F riparian management acres: 286,862
- Type Np riparian management acres: 126,456
- Type S stream crossings: 1,462
- Type F stream crossings: 14,970
- Type Np stream crossings: 7,126
- Type S riparian roads: 1,197 miles (5,803 acres)
- Type F riparian roads: 2,400 miles (11,636 acres)
- Type Np riparian roads: 777 miles (3,767 acres)

Westslope cutthroat trout

- Type S riparian management acres: 17,373
- Type F riparian management acres: 21,590
- Type Np riparian management acres: 29,380
- Type S stream crossings: 240
- Type F stream crossings: 918
- Type Np stream crossings: 1,651
- Type S riparian roads: 131 miles (636 acres)
- Type F riparian roads: 252 miles (1,221 acres)
- Type Np riparian roads: 281 miles (1,362 acres)

Coastal rainbow trout

- Type S riparian management acres: 129,417
- Type F riparian management acres: 270,542
- Type Np riparian management acres: 117,503
- Type S stream crossings: 1,342
- Type F stream crossings: 14,116
- Type Np stream crossings: 6,714
- Type S riparian roads: 1,109 miles (5,376 acres)
- Type F riparian roads: 2,233 miles (10,826 acres)
- Type Np riparian roads: 711 miles (3,447 acres)

Table 2. Quantification of the Effects of the Action, on FPHCP covered native fish, by FPHCP Covered Activities. (continued)

Redband rainbow trout

- Type S riparian management acres: 27,364
- Type F riparian management acres: 41,608
- Type Np riparian management acres: 50,734
- Type S stream crossings: 366
- Type F stream crossings: 1,948
- Type Np stream crossings: 2,607
- Type S riparian roads: 206 miles (998 acres)
- Type F riparian roads: 504 miles (2,443 acres)
- Type Np riparian roads: 471 miles (2,283 acres)

Mountain whitefish

- Type S riparian management acres: 97,582
- Type F riparian management acres: 173,745
- Type Np riparian management acres: 98,634
- Type S stream crossings: 988
- Type F stream crossings: 8,786
- Type Np stream crossings: 6,625
- Type S riparian roads: 713 miles (3,456 acres)
- Type F riparian roads: 1,548 miles (7,505 acres)
- Type Np riparian roads: 866 miles (4,198 acres)

Pygmy whitefish

- Type S riparian management acres: 11,222
- Type F riparian management acres: 3,574
- Type Np riparian management acres: 12,272
- Type S stream crossings: 127
- Type F stream crossings: 843
- Type Np stream crossings: 673
- Type S riparian roads: 88 miles (426 acres)
- Type F riparian roads: 169 miles (819 acres)
- Type Np riparian roads: 103 miles (499 acres)

Pacific lamprey

- Type S riparian management acres: 128,055
- Type F riparian management acres: 268,585
- Type Np riparian management acres: 121,835
- Type S stream crossings: 1,469
- Type F stream crossings: 13,818
- Type Np stream crossings: 6,863
- Type S riparian roads: 1,124 miles (5,449 acres)
- Type F riparian roads: 2,267 miles (10,991 acres)
- Type Np riparian roads: 775 miles (3,757 acres)

Table 2. Quantification of the Effects of the Action, on FPHCP covered native fish, by FPHCP Covered Activities. (continued)

<i>River lamprey</i>	
•	Type S riparian management acres: 85,624
•	Type F riparian management acres: 155,353
•	Type Np riparian management acres: 79,452
•	Type S stream crossings: 804
•	Type F stream crossings: 8,036
•	Type Np stream crossings: 4,597
•	Type S riparian roads: 628 miles (3,044 acres)
•	Type F riparian roads: 1,304 miles (6,322 acres)
•	Type Np riparian roads: 536 miles (2,598 acres)

<i>Western brook lamprey</i>	
•	Type S riparian management acres: 128,532
•	Type F riparian management acres: 265,246
•	Type Np riparian management acres: 119,309
•	Type S stream crossings: 1,365
•	Type F stream crossings: 13,702
•	Type Np stream crossings: 6,774
•	Type S riparian roads: 1,079 miles (5,231 acres)
•	Type F riparian roads: 2,224 miles (10,783 acres)
•	Type Np riparian roads: 766 miles (3,713 acres)

<i>Kokanee</i>	
•	Type S riparian management acres: 69,162
•	Type F riparian management acres: 124,916
•	Type Np riparian management acres: 72,435
•	Type S stream crossings: 729
•	Type F stream crossings: 5,880
•	Type Np stream crossings: 4,144
•	Type S riparian roads: 484 (2,346 acres)
•	Type F riparian roads: 1,041 miles (5,047 acres)
•	Type Np riparian roads: 560 miles (2,715 acres)

<i>Olympic mudminnow</i>	
•	Type S stream crossings: 357
•	Type F stream crossings: 4,268
•	Type Np stream crossings: 1,283
•	Type S riparian roads: 300 miles (1,454 acres)
•	Type F riparian roads: 686 miles (3,326 acres)
•	Type Np riparian roads: 135 miles (654 acres)

<i>Chiselmouth</i>	
•	Type S stream crossings: 542
•	Type F stream crossings: 3,869
•	Type Np stream crossings: 4,366

Table 2. Quantification of the Effects of the Action, on FPHCP covered native fish, by FPHCP Covered Activities. (continued)

Redside shiner

- Type S riparian management acres: 134,772
 - Type F riparian management acres: 248,698
 - Type Np riparian management acres: 148,675
 - Type S stream crossings: 1,530
 - Type F stream crossings: 12,987
 - Type Np stream crossings: 8,500
 - Type S riparian roads: 1,179 miles (5,716 acres)
 - Type F riparian roads: 2,280 miles (11,054 acres)
 - Type Np riparian roads: 1,079 miles (5,231 acres)
-

Speckled dace

- Type S riparian management acres: 128,300
 - Type F riparian management acres: 266,179
 - Type Np riparian management acres: 140,055
 - Type S stream crossings: 1,474
 - Type F stream crossings: 13,074
 - Type Np stream crossings: 7,705
 - Type S riparian roads: 1,121 miles (5,435 acres)
 - Type F riparian roads: 2,298 miles (11,141 acres)
 - Type Np riparian roads: 989 miles (4,795 acres)
-

Longnose/Nooksack dace

- Type S riparian management acres: 133,392
 - Type F riparian management acres: 258,204
 - Type Np riparian management acres: 141,456
 - Type S stream crossings: 1,496
 - Type F stream crossings: 12,833
 - Type Np stream crossings: 7,777
 - Type S riparian roads: 1,164 (5,643 acres)
 - Type F riparian roads: 2,283 miles (11,064 acres)
 - Type Np riparian roads: 972 miles (4,712 acres)
-

Leopard dace

- Type S riparian management acres: 29,774
 - Type F riparian management acres: 53,584
 - Type Np riparian management acres: 35,412
 - Type S stream crossings: 364
 - Type F stream crossings: 3,123
 - Type Np stream crossings: 2,484
 - Type S riparian roads: 281 miles (1,362 acres)
 - Type F riparian roads: 567 miles (2,794 acres)
 - Type Np riparian roads: 275 miles (1,333 acres)
-

Table 2. Quantification of the Effects of the Action, on FPHCP covered native fish, by FPHCP Covered Activities. (continued)

<i>Umatilla dace</i>	
•	Type S riparian management acres: 1,483 acres
•	Type F riparian management acres: 13,022
•	Type Np riparian management acres: 17,966
•	Type S stream crossings: 96
•	Type F stream crossings: 502
•	Type Np stream crossings: 970
•	Type S riparian roads: 56 miles (271 acres)
•	Type F riparian roads: 143 miles (693 acres)
•	Type Np riparian roads: 152 miles (736 acres)

<i>Northern pikeminnow</i>	
•	Type S riparian management acres: 84,009
•	Type F riparian management acres: 162,919
•	Type Np riparian management acres: 92,922
•	Type S stream crossings: 933
•	Type F stream crossings: 7,922
•	Type Np stream crossings: 5,214
•	Type S riparian roads: 702 (3,403 acres)
•	Type F riparian roads: 1,458 (7,069 acres)
•	Type Np riparian roads: 707 (3,427 acres)

<i>Tui chub</i>	
•	Type S stream crossings: 5
•	Type F stream crossings: 5

<i>Lake chub</i>	
•	Type S stream crossings: 64
•	Type F stream crossings: 630

<i>Peamouth</i>	
•	Type S stream crossings: 956
•	Type F stream crossings: 8,359
•	Type Np stream crossings: 5,806

<i>Largescale sucker</i>	
•	Type S stream crossings: 1,531
•	Type F stream crossings: 13,145
•	Type Np stream crossings: 7,858

<i>Salish sucker</i>	
•	Type S riparian management acres: 46,778
•	Type F riparian management acres: 65,919
•	Type Np riparian management acres: 43,106
•	Type S stream crossings: 401
•	Type F stream crossings: 3,945
•	Type Np stream crossings: 2,423
•	Type S riparian roads: 347 (1,682 acres)
•	Type F riparian roads: 610 miles (2,957 acres)
•	Type Np riparian roads: 286 miles (1,386 acres)

Table 2. Quantification of the Effects of the Action, on FPHCP covered native fish, by FPHCP Covered Activities. (continued)

Longnose sucker

- Type S riparian management acres: 17,333
- Type F riparian management acres: 62,340
- Type Np riparian management acres: 38,873
- Type S stream crossings: 200
- Type F stream crossings: 1,164
- Type Np stream crossings: 1,829
- Type S riparian roads: 117 (567 acres)
- Type F riparian roads: 295 miles (1,430 acres)
- Type Np riparian roads: 319 miles (1,546 acres)

Bridgelip sucker

- Type S riparian management acres: 76,553
- Type F riparian management acres: 159,439
- Type Np riparian management acres: 85,114
- Type S stream crossings: 947
- Type F stream crossings: 7,417
- Type Np stream crossings: 4,689
- Type S riparian roads: 721 (3,503 acres)
- Type F riparian roads: 1,342 (6,521)
- Type Np riparian roads: 594 (2,866 acres)

Mountain sucker

- Type S riparian management acres: 30,914
- Type F riparian management acres: 50,499
- Type Np riparian management acres: 41,703
- Type S stream crossings: 399
- Type F stream crossings: 3,004
- Type Np stream crossings: 2,841
- Type S riparian roads: 289 (1,401 acres)
- Type F riparian roads: 533 (2,584 acres)
- Type Np riparian roads: 352 (1,706 acres)

Three-spine stickleback

- Type S riparian management acres: 126,353
- Type F riparian management acres: 265,989
- Type Np riparian management acres: 120,238
- Type S stream crossings: 1,387
- Type F stream crossings: 13,665
- Type Np stream crossings: 6,679
- Type S riparian roads: 1,137 miles (5,512 acres)
- Type F riparian roads: 2,248 miles (10,899 acres)
- Type Np riparian roads: 740 miles (3,587 acres)

Sandroller

- Type S riparian management acres: 35,374
- Type F riparian management acres: 70,463
- Type Np riparian management acres: 41,836
- Type S stream crossings: 446
- Type F stream crossings: 4,048
- Type Np stream crossings: 2,744

Table 2. Quantification of the Effects of the Action, on FPHCP covered native fish, by FPHCP Covered Activities. (continued)

Shorthead sculpin

- Type S riparian management acres: 107,875
- Type F riparian management acres: 212,696
- Type Np riparian management acres: 101,481
- Type S stream crossings: 1,160
- Type F stream crossings: 11,101
- Type Np stream crossings: 6,064
- Type S riparian roads: 930 miles (4,509 acres)
- Type F riparian roads: 1,818 miles (8,814 acres)
- Type Np riparian roads: 704 miles (3,413 acres)

Riffle sculpin

- Type S riparian management acres: 91,220
- Type F riparian management acres: 207,671
- Type Np riparian management acres: 81,175
- Type S stream crossings: 981
- Type F stream crossings: 10,100
- Type Np stream crossings: 4,498
- Type S riparian roads: 139 miles (673 acres)
- Type F riparian roads: 276 miles (1,338 acres)
- Type Np riparian roads: 459 miles (2,225 acres)

Paiute sculpin

- Type S riparian management acres: 6,928
- Type F riparian management acres: 6,885
- Type Np riparian management acres: 10,860
- Type S stream crossings: 123
- Type F stream crossings: 427
- Type Np stream crossings: 592
- Type S riparian roads: 52 miles (252 acres)
- Type F riparian roads: 120 miles (581 acres)
- Type Np riparian roads: 127 miles (615 acres)

Prickly sculpin

- Type S riparian management acres: 126,735
 - Type F riparian management acres: 255,648
 - Type Np riparian management acres: 121,361
 - Type S stream crossings: 1,361
 - Type F stream crossings: 13,184
 - Type Np stream crossings: 6,745
 - Type S riparian roads: 1,096 miles (5,313 acres)
 - Type F riparian roads: 2,185 miles (10,593 acres)
 - Type Np riparian roads: 764 miles (3,704 acres)
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Table 2. Quantification of the Effects of the Action, on FPHCP covered native fish, by FPHCP Covered Activities. (continued)

Coastrange sculpin

- Type S riparian management acres: 133,404
- Type F riparian management acres: 274,768
- Type Np riparian management acres: 118,710
- Type S stream crossings: 1,395
- Type F stream crossings: 14,312
- Type Np stream crossings: 6,757
- Type S riparian roads: 1,147 miles (5,561 acres)
- Type F riparian roads: 2,269 miles (11,001 acres)
- Type Np riparian roads: 718 miles (3,481 acres)

Torrent sculpin

- Type S riparian management acres: 127,061
- Type F riparian management acres: 258,504
- Type Np riparian management acres: 132,377
- Type S stream crossings: 1,346
- Type F stream crossings: 12,870
- Type Np stream crossings: 7,416
- Type S riparian roads: 1,067 miles (5,713 acres)
- Type F riparian roads: 2,182 miles (10,579 acres)
- Type Np riparian roads: 893 miles (4,329 acres)

Mottled sculpin

- Type S riparian management acres: 11,674
- Type F riparian management acres: 12,877
- Type Np riparian management acres: 20,435
- Type S stream crossings: 165
- Type F stream crossings: 593
- Type Np stream crossings: 1,068
- Type S riparian roads: 75 miles (363 acres)
- Type F riparian roads: 156 miles (756 acres)
- Type Np riparian roads: 212 miles (1,027 acres)

Slimy sculpin

- Type S riparian management acres: 6,901
 - Type F riparian management acres: 9,412
 - Type Np riparian management acres: 10,841
 - Type S stream crossings: 67
 - Type F stream crossings: 418
 - Type Np stream crossings: 609
 - Type S riparian roads: 41 miles (198 acres)
 - Type F riparian roads: 112 miles (543 acres)
 - Type Np riparian roads: 102 miles (494 acres)
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Table 2. Quantification of the Effects of the Action, on FPHCP covered native fish, by FPHCP Covered Activities. (continued)

Margined sculpin

- Type S riparian management acres: 687
 - Type F riparian management acres: 2,106
 - Type Np riparian management acres: 2,293
 - Type S stream crossings: 15
 - Type F stream crossings: 133
 - Type Np stream crossings: 75
 - Type S riparian roads: 6 miles (29 acres)
 - Type F riparian roads: 50 miles (242 acres)
 - Type Np riparian roads: 23 miles (111 acres)
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Reticulate sculpin

- Type S riparian management acres: 101,082
 - Type F riparian management acres: 216,295
 - Type Np riparian management acres: 87,623
 - Type S stream crossings: 1,112
 - Type F stream crossings: 10,601
 - Type Np stream crossings: 5,095
 - Type S riparian roads: 907 miles (4,397 acres)
 - Type F riparian roads: 1,737 miles (8,412 acres)
 - Type Np riparian roads: 507 miles (2,458 acres)
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Longfin smelt

- Type S stream crossings: 19
 - Type F stream crossings: 259
 - Type Np stream crossings: 27
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Burbot

- Type S stream crossings: 42
 - Type F stream crossings: 225
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White sturgeon

- Type S stream crossings: 856
-