

# U.S. Fish & Wildlife Service

Arcata Fisheries Technical Report TR2006-06 - Supplement

## Klamath River Salmonid Emigrant Trapping Catch, Mortality, and External Health Indicators - 2004

### SUPPLEMENTAL APPENDICES E-G

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**Appendix E. Catch-per-unit-effort by trap.**

Days with trap malfunction or days not sampled are not reported. Blanks indicate zero catch. Adipose clipped (ad-clipped) Chinook salmon and steelhead, and maxillary clipped coho salmon indicate fish marked at Iron Gate Hatchery. After the hatchery release, unmarked hatchery young-of-year (yoy) Chinook salmon are not differentiable from wild fish of the same age class.

Table E-1. Bogus frame trap daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
3/10/2004	768									
3/11/2004	885								1	
3/12/2004	1,163									
3/16/2004	2,265				3				1	
3/17/2004	2,394				7					
3/18/2004	3,016				27				4	
3/19/2004	3,479				19				3	
3/24/2004	4,967				53				2	
3/25/2004	4,104				30				2	
3/26/2004	2,551				23				1	
3/30/2004	1,640				21	3	2		2	
3/31/2004	1,503				1		1			
4/1/2004	1,324				8		4			
4/2/2004	871				24		1			
4/6/2004	641				8					1
4/7/2004	1,452				20					
4/8/2004	1,911				24			1		
4/9/2004	2,152		1		43			2		1
4/13/2004	1,691				45			2		
4/14/2004	1,578				49		1	5		
4/15/2004	1,203				33			7		

Table E-1. Bogus frame trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
4/16/2004	828				11			10		
4/20/2004	253				8			3		
4/21/2004	247				3			3		
4/22/2004	350				24			3		
4/23/2004	253				55			11		1
4/27/2004	94				155			23		
4/28/2004	66				116			19		
4/29/2004	46				111			23		
4/30/2004	30				50			24		
5/1/2004	19				23			4		
5/2/2004	28				35			4		
5/3/2004	16				7			17		
5/4/2004	5				10		1	5		
5/5/2004	4				10			15		
5/6/2004	21				29	1		27	1	1
5/7/2004	97				31			78		
5/9/2004	20				1			57	1	
5/10/2004	38							108		2
5/11/2004	22	2			1			47		1
5/12/2004	44				34			48		1
5/13/2004	48				126			61	1	1
42 days	44,087	2	1	0	1,278	4	10	607	19	9
Total CPUE	1,049.69	0.05	0.02	0.00	30.43	0.10	0.24	14.45	0.45	0.21

Table E-2. Bogus rotary trap daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
3/10/2004	12								13	
3/11/2004	26		1			1			4	
3/12/2004	38								4	1
3/16/2004	29								8	2
3/17/2004	152		1						5	
3/18/2004	56					2			9	1
3/19/2004	38									
3/24/2004	288				1				3	1
3/25/2004	126								2	
3/26/2004	58									
3/30/2004	13								30	
3/31/2004	145					22	417		1	2
4/1/2004	371				1	5	123		6	2
4/2/2004	211				2	1	72		5	
4/6/2004	15						3		2	55
4/7/2004	2									15
4/8/2004	263						4		2	40
4/9/2004	222				1			8		53
4/13/2004	476						1		1	17
4/14/2004	444				3		6		2	13
4/15/2004	431				1		3			50
4/20/2004	143							1	2	40
4/21/2004	123						1		2	38
5/4/2004	3						3		3	3
5/5/2004	56				1		4		1	9
25 days	3,741	0	2	0	10	31	667	9	75	342
Total CPUE	149.64	0.00	0.08	0.00	0.40	1.24	26.68	0.36	3.00	13.68

Table E-3. I-5 frame trap daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
3/11/2004	371								1	
3/12/2004	414									
3/16/2004	899								3	
3/17/2004	1,118									
3/18/2004	1,193								1	
3/19/2004	982				2					
3/23/2004	1,794				8				2	
3/24/2004	1,636				10					
3/25/2004	1,674				6				1	
3/26/2004	1,077				10				2	
3/30/2004	1,104				16		4			
3/31/2004	1,268				59					
4/1/2004	1,028				13					
4/2/2004	795				35					
4/6/2004	325				3		1			
4/7/2004	820				14		1			
4/8/2004	1,060				8	1				
4/9/2004	1,557				22			3		
4/13/2004	872				16		1	13	1	
4/14/2004	1,101				36			6		
4/15/2004	684				25			11		
4/16/2004	551				25			4		
4/20/2004	185				9			10	1	
4/21/2004	180				2		1	4	1	
4/22/2004	108				2			13		
4/23/2004	123				4		1	5		
4/27/2004	45				4		3	2	1	

Table E-3. I-5 frame trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
4/28/2004	18				1		1	5	1	
4/29/2004	15				1		2	5		
4/30/2004	6							1	1	
5/4/2004	5						4	4	1	1
5/5/2004	1							2		
5/6/2004	9						1			
33 days	23,018	0	0	0	331	1	20	88	17	1
Total CPUE	697.52	0.00	0.00	0.00	10.03	0.03	0.61	2.67	0.52	0.03



Table E-4. I-5 rotary trap daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
3/10/2004	13									
3/18/2004	337								2	
3/24/2004	675								7	
3/25/2004	1,013				1				2	
3/26/2004	898						1	3		
3/30/2004	1,317				3		58		2	
3/31/2004	1,772				2		30		3	
4/1/2004	1,132				2	2	52		4	
4/2/2004	2,300				1		24	3		
4/6/2004	1,759				1		4		2	
4/7/2004	2,537				1		7		4	
4/8/2004	1,412	1					4		6	1
4/9/2004	1,586						3			
4/13/2004	1,070						4		1	
4/14/2004	1,164				2		3	3	4	
4/15/2004	708				4		2	1	3	
4/20/2004	171						6	6	3	
4/21/2004	192		1		1	1	7	10	6	
18 days	20,056	1	1	0	18	3	205	26	49	1
Total CPUE	1,114.22	0.06	0.06	0.00	1.00	0.17	11.39	1.44	2.72	0.06

Table E-5. Kinsman frame trap daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
3/10/2004	142								1	
3/11/2004	175								2	
3/12/2004	126								1	
3/16/2004	154								1	
3/17/2004	143								4	
3/18/2004	187				4					
3/19/2004	197				5				1	
3/23/2004	205				7				4	
3/24/2004	237				3				1	
3/25/2004	245				20				1	
3/26/2004	190				20			1		
3/30/2004	132				2				1	
3/31/2004	146				9					
4/1/2004	53				4					
4/2/2004	53					1				
4/6/2004	30				5					
4/7/2004	54				9				2	
4/8/2004	62				1					
4/9/2004	80				5			1		
4/13/2004	185				29			1	3	
4/14/2004	116				7				1	
4/15/2004	60				31			1	1	
4/16/2004	56				12			1		
4/20/2004	52				7			2		
4/21/2004	44				4					
4/22/2004	25				6			2	1	
4/23/2004	13				15			3		
4/27/2004	11				3	1		2	2	

Table E-5. Kinsman frame trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
4/28/2004	14							2	3	
4/29/2004	15				1	2			2	
4/30/2004	34				2				5	
5/4/2004	106								2	
5/5/2004	109				1				4	
5/7/2004	98				3			2	4	
5/9/2004	165				1	1		2	1	
5/10/2004	144				9	1		8	2	
5/11/2004	88				2			2		
5/12/2004	61				6			21		
5/13/2004	137				9			4		
5/14/2004	221				12			9	5	
5/15/2004	156				12			5	9	
5/18/2004	99				4			25		
5/19/2004	68				5			23	3	
5/20/2004	62				6			12	4	
5/21/2004	109				2			16	1	
5/22/2004	130		1		5			21	11	
5/23/2004	70				1			20	5	
5/24/2004	32				2			14	6	
5/25/2004	74				5			20	6	
5/26/2004	62				2			10	3	
5/27/2004	46							10	3	
5/28/2004	33				3			45	2	
5/29/2004	25				3			11	2	
5/30/2004	25				1			11	4	
5/31/2004	45				1			9		
6/1/2004	28						1	3		

Table E-5. Kinsman frame trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
6/2/2004	30							2	1	
6/3/2004	38								4	
6/4/2004	78	2			3			3	8	
6/5/2004	68							7	6	
6/6/2004	64							11	9	
6/7/2004	56		1					10		
6/8/2004	40							27	1	
6/9/2004	44							13	5	
6/10/2004	63							10	11	
6/11/2004	132				2			7	8	1
6/12/2004	60				2			21	8	
6/13/2004	55	5						7	6	
6/14/2004	61	3			2			8	7	
6/15/2004	39	1						6	1	
6/16/2004	69	4			1			3	8	1
6/17/2004	91								4	
6/18/2004	115	4						1	5	
6/19/2004	70	1				1		3	5	1
6/22/2004	18							1	4	
6/24/2004	18							10		
6/26/2004	1							4	2	
6/28/2004	3							2		
78 days	6,642	20	2	0	316	7	1	475	217	3
Total CPUE	85.15	0.26	0.03	0.00	4.05	0.09	0.01	6.09	2.78	0.04

Table E-6. Kinsman rotary trap daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
3/10/2004	17								1	
3/11/2004	11									
3/12/2004	2									
3/16/2004	3								1	
3/19/2004	4									
3/23/2004	6									
3/24/2004	25									
3/25/2004	12									
3/26/2004	65								1	
3/30/2004	2									
3/31/2004	46									
4/1/2004	42								2	
4/2/2004	11									
4/6/2004	4					1				
4/7/2004	3									
4/8/2004	3									
4/9/2004	1									
4/13/2004	8								3	
4/20/2004	8								1	
4/21/2004	9								1	
5/4/2004	6									
5/5/2004	2					1	1		2	
5/6/2004	41					1			6	
5/7/2004	61							6		1
5/9/2004	5								7	
5/10/2004	11					2			4	
5/11/2004	5								6	
5/12/2004	5								12	

Table E-6. Kinsman rotary trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
5/13/2004	21								6	
5/14/2004	32								8	
5/15/2004	13						1		7	
5/16/2004	2								5	
5/18/2004	1							1	3	
5/19/2004	3							1	8	
5/20/2004	5								9	
5/21/2004	36		1				1		6	
5/22/2004	10								4	
5/23/2004	6								7	
5/24/2004	9								4	
5/25/2004	9								7	
5/26/2004	12								5	
5/27/2004	7	1							6	
5/28/2004	3								7	1
5/29/2004	1								1	
5/30/2004	19								2	
5/31/2004	17							3	1	
6/1/2004	62								1	1
6/2/2004	14	1							3	
6/3/2004	7								1	
6/4/2004	28								2	
6/5/2004	39							1	4	
6/6/2004	137	2						1	17	
6/7/2004	13								5	1
6/8/2004	38								4	1
6/9/2004	7								1	
6/10/2004	21								3	

Table E-6. Kinsman rotary trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
6/11/2004	64								7	
6/12/2004	67	2					1	4		
6/13/2004	31	0						5		
6/14/2004	147	9					3	5		
6/15/2004	311	4					1	12		
6/16/2004	44							6		1
6/17/2004	148	6						12		1
6/18/2004	143	1						14		
6/19/2004	105	1					1	4		
6/20/2004	48	2					1	3		1
6/21/2004	35							11		1
6/22/2004	30						1	7		
6/23/2004	21						1	4		
6/24/2004	24							19		
6/25/2004	8							8		
6/26/2004	10						1	7		
6/27/2004	9						1	4		
6/28/2004	9						4	2		
6/29/2004								1		
6/30/2004								3		1
7/1/2004	1						1			
7/2/2004	0						1	1		
7/3/2004	2							1		
79 days	2,247	29	1	0	0	5	3	30	324	10
Total CPUE	28.44	0.37	0.01	0.00	0.00	0.06	0.04	0.38	4.10	0.13

Table E-7. Happy Camp frame trap daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
3/30/2004	11									
3/31/2004	6									
4/1/2004	8									
4/2/2004	2									
4/3/2004	4									
4/4/2004	2									
4/5/2004	6									
4/6/2004	2									
4/7/2004	2									
4/8/2004	2									
4/9/2004	9									
4/10/2004	7								1	
4/11/2004	9									
4/12/2004	6									
4/13/2004	4				1					
4/14/2004	10									
4/15/2004	19				2					
4/16/2004	14						1			
4/17/2004	5								1	
4/18/2004	8				1				1	
4/19/2004	8				2					
4/20/2004	8				1				1	
4/21/2004	3				1					
4/22/2004	4									
4/23/2004	2						1		1	
4/24/2004	2									
4/25/2004	6									
4/26/2004	2									



Table E-7. Happy Camp frame trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
4/27/2004	1									
4/28/2004										
4/29/2004	12								4	
5/3/2004	4								1	
5/4/2004	5								1	
5/6/2004	13									
5/7/2004	8									
5/8/2004	14									
5/9/2004	10								1	
5/10/2004	13								1	
5/11/2004	7								1	
5/12/2004	6							2	1	
5/13/2004	2									
5/14/2004	4								1	
5/15/2004	5									
5/16/2004	6							1		
5/17/2004	3							1		
5/18/2004	6									
5/19/2004	3									
5/20/2004	4									
5/21/2004	17									
5/22/2004	29									
5/23/2004	15									
5/24/2004	6								1	
5/25/2004	14								1	
5/26/2004	19									
5/27/2004	21									
5/28/2004	7									

Table E-7. Happy Camp frame trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
5/29/2004	4								1	
5/30/2004	6									
6/1/2004	16									
6/2/2004	18									
6/3/2004	25						1			
6/4/2004	22									
6/5/2004	15						7	1		
6/6/2004	12							2		
6/7/2004	7				1		1			
6/8/2004	8									
6/9/2004	6									
6/10/2004	9									
6/11/2004	8									
6/25/2004	1								2	
6/26/2004	4									
6/27/2004	2									
6/28/2004							1	1		
6/29/2004								2		
6/30/2004							4			
7/1/2004	2									
7/2/2004										
7/3/2004							1	2		
7/7/2004										
7/8/2004							4			
7/9/2004										
81 days	590	0	0	0	9	0	1	25	29	0
Total CPUE	7.28	0.00	0.00	0.00	0.11	0.00	0.01	0.31	0.36	0.00

Table E-8. Happy Camp rotary trap daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
3/5/2004	9					2			16	
3/6/2004	7		1						15	
3/7/2004	9								8	
3/8/2004	12		1						16	
3/9/2004	5								12	
3/10/2004	5		1			3			18	
3/11/2004	1					1			5	
3/12/2004	29		1						15	
3/13/2004	10					1			16	
3/14/2004	15								6	
3/15/2004	1		1	2		1			3	
3/16/2004	1								2	
3/17/2004	3								4	
3/18/2004	16		4						11	
3/19/2004	10		4						5	
3/20/2004	17		2			2			5	
3/21/2004	60		2						6	
3/22/2004	2		1	1					2	
3/27/2004	18									
3/28/2004	17									
3/29/2004	18		1							
3/30/2004	15									
3/31/2004	17									
4/1/2004	29		2							
4/2/2004	33		1						1	
4/3/2004	9		1						2	
4/4/2004	25									
4/5/2004	17									

Table E-8. Happy Camp rotary trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
4/6/2004	9									
4/7/2004	6									
4/8/2004	10									
4/12/2004	24									
4/13/2004	14									
4/15/2004	14				1				1	
4/16/2004	33		1							
4/17/2004	26								1	
4/18/2004	48								2	
4/19/2004	20								1	
4/20/2004	16		1							
4/21/2004	29		1						1	
4/22/2004	22									
4/23/2004	16								2	
4/24/2004	5								1	
4/25/2004	3									
4/26/2004	8									
4/27/2004	8								1	
4/28/2004	1								2	
5/3/2004	3									
5/4/2004	1								1	
5/5/2004	2									
5/6/2004	12								1	
5/7/2004	40							1	6	
5/8/2004	34		1					1	6	
5/9/2004	54				2				3	
5/10/2004	67		1					4	5	
5/11/2004	57					2	1		2	

Table E-8. Happy Camp rotary trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
5/12/2004	103				1				10	
5/13/2004	61				1		1		11	
5/14/2004	68		1		1				6	
5/15/2004	145				3		2		17	
5/16/2004	91							2	12	
5/17/2004	23						2		5	
5/18/2004	23								4	
5/19/2004	44				1				3	
5/20/2004	44								10	
5/21/2004	97					4			8	
5/22/2004	100				2		2		11	
5/23/2004	61						1		6	
5/24/2004	77				1				5	
5/25/2004	65					1			11	
5/26/2004	283								16	
5/27/2004	364								5	
5/28/2004	123								6	
5/29/2004	16								2	
5/30/2004	48							3	0	
5/31/2004	86				1				2	
6/1/2004	200							1	6	
6/2/2004	137								3	
6/3/2004	238				1				4	
6/4/2004	232	2						3	4	
6/5/2004	106	1								
6/6/2004	89							1	10	
6/7/2004	71	1						1	4	
6/8/2004	82	1			2			2	6	

Table E-8. Happy Camp rotary trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
6/9/2004	109	4			2			3	11	1
6/10/2004	108	4						3	11	
6/11/2004	199	17			1			4	15	1
6/12/2004	212	8							3	1
6/13/2004	203	8					10		12	
6/14/2004	142	4							4	
6/15/2004	326	9					4		14	
6/16/2004	528	34					2		12	2
6/17/2004	26	19					3		11	
6/18/2004	365	18					1		18	
6/20/2004	209	5					11		11	
6/21/2004	129	8			1		2		8	
6/22/2004	168	5			1		9		11	1
6/23/2004	173	3					2		15	
6/24/2004	158	3			2		7		16	
6/25/2004	107	4					2		15	
6/26/2004	131						7		8	
6/27/2004	150						14		5	
6/28/2004	85						3		7	
6/30/2004	29						6		1	
7/1/2004	14				1		2		14	
7/2/2004	9								7	
7/3/2004	8								4	
7/7/2004	43				1				7	
7/8/2004	27						3		10	
7/9/2004	4								2	
7/10/2004										
7/11/2004										

Table E-8. Happy Camp rotary trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
7/12/2004	1									
7/13/2004	3								4	
7/14/2004	0									
115 days	7,735	158	29	3	26	17	9	117	647	6
CPUE	67.26	1.37	0.25	0.03	0.23	0.15	0.08	1.02	5.63	0.05

Table E-9. Persido Bar frame trap daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
4/7/2004	2									
4/28/2004					1					
4/29/2004	1								1	
4/30/2004										
5/1/2004										
5/2/2004										
5/3/2004	1							1		
5/4/2004	3							2		
5/7/2004								5		
5/8/2004								1	1	
5/9/2004	1		1					1		
5/13/2004	5		1					2		
5/14/2004	9							3		
5/16/2004	4							8		
5/17/2004	5							7		

Table E-9. Persido Bar frame trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
5/18/2004	10							13		
5/21/2004	6							21		
5/25/2004	6							6		
5/26/2004	4							1		
5/27/2004	15							3		
5/29/2004	13							6	4	
5/30/2004	1							6		
5/31/2004	2							4		
6/1/2004	13									
6/2/2004	4							1		
6/3/2004										
6/4/2004	5									
6/5/2004								2		
6/6/2004	7							2		
6/7/2004	10									
6/8/2004	13							3		
6/10/2004	1							5		
6/11/2004	8							4		
6/14/2004	17							6		
6/15/2004	6							2		
6/16/2004	13	3								
6/17/2004	2							1		
6/22/2004										
6/23/2004								1		
39 days	187	3	2	0	1	0	0	117	6	0
Total CPUE	4.79	0.08	0.05	0.00	0.03	0.00	0.00	3.00	0.15	0.00



Table E-10. Persido Bar rotary trap daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
3/3/2004	1								1	
3/4/2004			1						4	
3/5/2004	2		1						5	
3/6/2004	1									
3/7/2004									5	
3/8/2004	3								5	
3/9/2004			1							
3/10/2004	2								1	
3/11/2004	1								2	
3/12/2004									3	
3/13/2004			1						3	
3/14/2004			1							
3/15/2004	1									
3/16/2004									1	
3/17/2004									1	
3/18/2004						1			2	
3/21/2004			2						2	
3/22/2004									2	
3/23/2004	2								2	
3/24/2004									2	
3/25/2004									2	
3/26/2004	1								2	
3/27/2004									3	
3/28/2004									1	
3/29/2004									3	
3/30/2004	4								5	
3/31/2004	1									

Table E-10. Persido Bar rotary trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
4/2/2004	1								1	
4/4/2004	8								1	
4/5/2004	6								2	
4/6/2004	4								1	
4/7/2004	6								1	
4/8/2004	12								4	
4/9/2004	12								6	
4/10/2004	1								3	
4/11/2004									4	
4/12/2004									3	
4/13/2004	3								2	
4/14/2004	7								1	
4/15/2004	4				2				1	
4/16/2004	5								3	
4/17/2004	11				1				3	
4/18/2004	7	1			3				1	
4/19/2004	6				4				4	
4/20/2004	22				3				2	
4/21/2004	1								2	
4/22/2004	8									
4/24/2004	5								3	
4/25/2004	5								5	
4/26/2004	3								2	
4/27/2004					1				4	
4/28/2004			2						3	
4/29/2004	1		1							
5/1/2004					4				1	

Table E-10. Persido Bar rotary trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
5/2/2004			1			1			2	
5/3/2004	1		1						2	
5/4/2004										
5/7/2004	5		1						2	
5/8/2004	3								1	
5/9/2004	5		1		1				2	
5/13/2004	28				7				4	
5/14/2004	16				5				1	
5/16/2004	7				2					
5/17/2004	5								2	
5/18/2004	18				6				2	
5/19/2004	4									
5/20/2004	14				2				2	
5/21/2004	20				3				6	
5/22/2004	17				2				5	
5/23/2004	22		1					1		
5/24/2004	39				3	1			5	
5/25/2004	30				3				1	
5/26/2004	31				4				9	
5/27/2004	49		1		2			1	5	
5/28/2004	13								3	
5/30/2004	87							1	1	
5/31/2004	68								2	
6/1/2004	32	10							7	
6/2/2004	40								3	
6/3/2004	75							2	5	
6/4/2004	83				1			1	7	

Table E-10. Persido Bar rotary trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
6/5/2004	58							1	4	
6/6/2004	127							1	2	
6/7/2004	56							5		
6/8/2004	374							2	15	
6/9/2004	140	1						1	7	
6/10/2004	158							1	8	
6/11/2004	323								7	
6/12/2004	44							6	5	
6/13/2004	438	10							5	
6/14/2004	604		1					2	12	
6/15/2004	653	18			1			1	14	2
6/16/2004	318								16	
6/17/2004	834	15						1	11	
6/18/2004	686							1	3	
6/19/2004	31				1					
6/20/2004	390	5						3	6	
6/22/2004	186							2	5	
6/23/2004	142								7	
6/24/2004	91							2	9	
6/25/2004	65				2			4	7	
6/26/2004	54							2	1	
6/27/2004	40	15							5	
6/28/2004	39							3	3	
6/29/2004	21							4		
7/8/2004	4							1	1	
7/9/2004	7							1	1	
7/11/2004	1							3		

Table E-10. Persido Bar rotary trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
7/13/2004	119							7	4	
7/14/2004	7							2		
7/15/2004	3									
7/17/2004	4							5		
7/19/2004	60							26	3	
113 days	6,946	75	17	0	63	3	0	93	360	2
Total CPUE	61.47	0.66	0.15	0.00	0.56	0.03	0.00	0.82	3.19	0.02

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Table E-11. Big Bar frame trap daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
4/21/2004	98				3			2		
4/22/2004	14				1			1		
4/23/2004	31				4					
4/24/2004	61				3					
4/25/2004	30				3			5		
4/26/2004	20							6		
6 days	254	0	0	0	14	0	0	14	0	0
Total CPUE	42.33	0.00	0.00	0.00	2.33	0.00	0.00	2.33	0.00	0.00

Table E-12. Big Bar rotary trap (1) daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
3/24/2004	58							1	2	
3/25/2004	36								4	
3/27/2004	90									
3/28/2004	31		1							
3/29/2004	28								1	
3/30/2004	30								1	
3/31/2004	36		1		2				2	
4/1/2004	32									
4/2/2004	24								1	
4/3/2004	20								3	
4/4/2004	26								3	
4/5/2004	21								2	
4/6/2004	31								1	
4/7/2004	33							1	2	
4/8/2004	44									
4/9/2004	54				1					
4/10/2004	55									
4/11/2004	78									
4/12/2004	36								1	
4/13/2004	38				1					
4/14/2004	34				2	1			1	
4/16/2004	78				1					
4/17/2004	46				1				1	
4/18/2004	14		1		4					
4/19/2004	100				8					
4/20/2004	73				2					
4/21/2004	41				2			1	1	

Table E-12. Big Bar rotary trap (1) daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
4/22/2004	67				8			1		
4/23/2004	42				1					
4/24/2004	35				2			2		
4/25/2004	45				5			4		
4/26/2004	21				1					
4/27/2004	7									
4/28/2004	8									
4/29/2004	3									
4/30/2004	5							2	2	
5/1/2004	11				1					
5/2/2004	2				2			1		
5/4/2004	1									
5/5/2004								1		
5/6/2004	1							2	1	
5/7/2004	5				1				1	
5/8/2004	7							6	1	
5/9/2004	22				1			4		
5/10/2004	16					1		2		
5/11/2004	10				2			1		
5/12/2004	15				1			16		
5/13/2004	21				5	1	1	11		2
5/14/2004	18				8		1	12	1	
5/15/2004	15				9			10		
5/16/2004	1							10		
5/17/2004	9							1	1	
5/18/2004	18				3		1	6		1
5/19/2004	18				7			15	1	

Table E-12. Big Bar rotary trap (1) daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
5/20/2004	23	2			5			1	2	
5/21/2004	16				1			3	1	
5/22/2004	24				2			18	2	
5/23/2004	20							10		
5/24/2004	27				1			11	2	
5/25/2004	38				1	1		14	1	
5/26/2004	35				3	1		6	3	
5/27/2004	30							2	2	
5/28/2004	30				2	1		2		
6/1/2004	7				1					
6/2/2004	38							1	2	
6/3/2004	66							0	2	
6/4/2004	123	3			2			1		
6/5/2004	84							2	2	
6/6/2004	53	1						5		
6/7/2004	104	1			1			5		
6/8/2004	30									
6/9/2004	39	1			1			4		
6/10/2004	17							1		
6/11/2004	71	1						10		
6/12/2004	73	1						6		
6/13/2004	96	1						9		
6/14/2004	118	1						7	2	
6/15/2004	211	1			2			9		
6/16/2004	244	1						12	1	
6/17/2004	105							6		
6/18/2004	148	5						7		



Table E-12. Big Bar rotary trap (1) daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
6/19/2004	271	3						8		
6/22/2004	45	1						6		
6/23/2004	79							5		
84 days	3,875	23	3	0	103	6	3	281	56	3
Total CPUE	46.13	0.27	0.04	0.00	1.23	0.07	0.04	3.35	0.67	0.04

Table E-13. Big Bar rotary trap (2) daily and total catch-per-unit-effort.

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
4/8/2004	100								1	
4/9/2004	197							3	7	
4/10/2004	23							1	3	
4/11/2004	234				2			1	1	
4/12/2004	218						1	3	1	
4/13/2004	221				1				2	
4/14/2004	244								9	
4/15/2004	146				1				3	
4/16/2004	85								6	
4/17/2004	108								2	
4/18/2004	150				2				2	
4/19/2004	132								4	
4/20/2004	214				3			1		
4/21/2004	77				1				7	
4/22/2004	133			1	2			6	3	

Table E-13. Big Bar rotary trap (2) daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
4/23/2004	213				2			14	2	
4/24/2004	151				2			17	2	
4/25/2004	72				3			6	3	
4/26/2004	54				1	1		4	8	
4/27/2004	35							1	9	
4/28/2004	14								4	
4/29/2004	20		1						1	
4/30/2004	0								4	
5/1/2004	12					2		1	2	
5/2/2004	8								1	
5/3/2004	3				1				2	
5/4/2004	3							1	1	
5/5/2004	5					1		1	2	
5/6/2004	1							12		
5/7/2004	10							5		
5/8/2004	18				1			16		
5/9/2004	16							13		
5/10/2004	7				3			22	1	
5/11/2004	10				2			6		
5/12/2004	15				1	1		16		
5/13/2004	14				2			78		
5/14/2004	14				1			82		1
5/15/2004	9				1			15		
5/16/2004	9				1	1		41	2	
5/17/2004	35				1		1	28	1	
5/18/2004	67							74		1
5/19/2004	27				3			89	1	
5/20/2004	31				1			76	1	

Table E-13. Big Bar rotary trap (2) daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
5/21/2004	27				2			20		
5/22/2004	36				1	2		87		
5/23/2004	23				2			21	1	
5/24/2004	39				1			29		
5/25/2004	60				2		1	17	4	
5/26/2004	45				2			15	1	
5/27/2004	74				3			17		
5/28/2004	60					1		9	2	
6/1/2004	49					1		2	4	
6/2/2004	196							3	1	1
6/3/2004	268				1			1	2	
6/4/2004	452	1			2			15	2	
6/5/2004	648	9						28	1	
6/6/2004	570				4			71		
6/7/2004	1,402				2			53		
6/8/2004	302				2			67		
6/9/2004	240	6			2			62	2	
6/10/2004	244	2			10			66	1	
6/11/2004	352	11			3			40	1	
6/12/2004	728	2			2			73	5	1
6/13/2004	818	25			3			55	4	
6/14/2004	954	23			7			31	2	
6/15/2004	1,243	25			5			54		
6/16/2004	1,518	17						16		
6/17/2004	2,025	40			1			45	2	
6/18/2004	2,863	4			2			46		
6/19/2004	2,372	69			3			46	1	
6/22/2004	1,867	18						34	2	

Table E-13. Big Bar rotary trap (2) daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
6/23/2004	1,706	28						29		
6/24/2004	1,896	17						30	3	
6/25/2004	900	18			1			33	1	
6/26/2004	871	9						14	3	
6/27/2004	586	12			1			10	1	
6/29/2004	522	5						36		
6/30/2004	805	5						25	2	
7/1/2004	709	9						10	2	
7/2/2004	393	2						9	1	
7/3/2004	381	4			2			15		
7/4/2004	414							18		
7/5/2004	396							20		
7/6/2004	502	3						45	1	
7/7/2004	309							52	1	
7/8/2004	93							33	4	
7/9/2004	58							28		
7/10/2004	80							20	3	
7/11/2004	45							30		
7/12/2004	19							16		
7/13/2004	44							16		
7/14/2004	52							12		
7/15/2004	34							10		
7/16/2004	36							13	2	
7/17/2004	49							15		
7/18/2004	26							6		
7/19/2004	17							26		
7/20/2004	30							23		
7/21/2004	28							13		

Table E-13. Big Bar rotary trap (2) daily and total catch-per-unit-effort (continued).

Date	Chinook yoy no ad-clip	Chinook yoy ad-clipped	Chinook yearling no ad-clip	Chinook yearling ad-clipped	Coho yoy age class no maxillary clip	Coho yearling age class no maxillary clip	Coho yearling age class maxillary clipped	Steelhead yoy	Steelhead yearling or older no ad clip	Steelhead yearling ad-clipped
7/22/2004	29							17		
7/23/2004	27							26		
7/24/2004	14							10		
7/25/2004	12							13		
7/26/2004	13							10		
7/27/2004	2							16		
7/28/2004	3							13		
7/29/2004	4							13	1	
7/30/2004	4							5		
108 days	33,739	364	1	1	104	10	3	2,386	161	4
Total CPUE	312.40	3.37	0.01	0.01	0.96	0.09	0.03	22.09	1.49	0.04

Table E-14. Horse Creek tributary frame trap daily and total catch-per-unit-effort. No hatchery marked fish were expected or encountered.

Date	Chinook yoy	Coho yoy	Coho yearling	Steelhead yoy	Steelhead yearling or older
2/26/2004					1
3/10/2004			1		17
3/11/2004					7
3/12/2004					14
3/16/2004			5		25
3/17/2004			1		52
3/18/2004			3		34
3/19/2004		7	1		44
3/22/2004		2	4		41
3/24/2004		6	2		32
3/25/2004		12	4		24
3/26/2004		20	1		20
3/27/2004		17	4		22
3/28/2004		4	2		27
3/29/2004			3		31
3/30/2004			3		87
3/31/2004			1		26
4/1/2004		2	3		29
4/2/2004		1			12
4/3/2004			1		12
4/4/2004					33
4/5/2004			1		24
4/6/2004			1		33
4/7/2004			3		37
4/8/2004					50
4/9/2004		1	1		48
4/10/2004		2	3		47
4/11/2004			2		18
4/12/2004					51
4/13/2004					33
4/14/2004		10	3		24
4/15/2004		3	1		30
4/16/2004		20			35
4/21/2004		17	1		10
4/22/2004		5	2		12
4/23/2004		7	3		9
4/24/2004		4			12
4/25/2004		2			23
4/26/2004		2			39
4/27/2004		1			19

Table E-14. Horse Creek tributary frame trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy	Coho yoy	Coho yearling	Steelhead yoy	Steelhead yearling or older
4/28/2004					20
4/29/2004		3			9
4/30/2004		10			11
5/1/2004		34		2	3
5/2/2004		7		1	9
5/3/2004		2		1	11
5/4/2004		9		2	10
5/5/2004		3		2	6
5/6/2004		4	2	11	9
5/7/2004		7		49	9
5/8/2004		13	1	10	21
5/9/2004		14	1	74	14
5/10/2004		15	2	41	12
5/11/2004		9		40	22
5/12/2004		19		34	10
5/13/2004		19		53	22
5/14/2004		14		168	12
5/15/2004		7	1	81	19
5/16/2004		5		188	21
5/17/2004		24		380	21
5/18/2004		7		217	12
5/19/2004		9	1	314	13
5/20/2004		20		412	13
5/21/2004		7		258	10
5/22/2004		16		499	17
5/23/2004		10		596	8
5/24/2004		20		489	15
5/25/2004		9		611	2
5/26/2004		11		519	7
5/28/2004		1		718	4
5/29/2004		12		487	12
5/30/2004		18		473	20
5/31/2004		18		684	12
6/1/2004		6		521	6
6/2/2004		11		519	14
6/3/2004		8		629	5
6/4/2004		3		761	5
6/5/2004		3		1,083	3
6/6/2004		3	1	509	7
6/7/2004		11		928	1

Table E-14. Horse Creek tributary frame trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy	Coho yoy	Coho yearling	Steelhead yoy	Steelhead yearling or older
6/8/2004		10		1,064	7
6/9/2004		14		731	12
6/10/2004		3		774	2
6/11/2004		12		868	2
6/12/2004		8		691	0
6/13/2004		11		714	3
6/14/2004		22		803	2
6/15/2004		12		868	2
6/16/2004		10		867	1
6/17/2004		10		554	
6/18/2004		4		649	
6/19/2004		12		514	
6/20/2004		17		783	
6/21/2004		13		583	1
6/22/2004		36		657	
6/23/2004		20		427	
6/24/2004		10		582	
6/25/2004		10		612	
6/26/2004		7		387	
6/27/2004		7		399	1
6/28/2004		4		234	
6/29/2004		2		272	
7/1/2004		2		232	
7/2/2004		5		161	
7/3/2004		9		373	
105 days	0	836	69	27,163	1,634
Total CPUE	0.00	7.96	0.66	258.70	15.56



Table E-15. Seiad Creek tributary frame trap daily and total catch-per-unit-effort. No hatchery marked fish were expected or encountered.

Date	Chinook yoy	Coho yoy	Coho yearling	Steelhead yoy	Steelhead yearling or older
3/3/2004					1
3/5/2004					
3/17/2004			8		56
3/18/2004			15		59
3/24/2004					7
3/25/2004					1
3/26/2004					4
3/27/2004					
3/28/2004			9		15
3/29/2004			2		18
3/30/2004					4
3/31/2004					2
4/1/2004					3
4/2/2004			1		2
4/3/2004	1	1			1
4/4/2004					1
4/5/2004	1				2
4/6/2004					
4/7/2004					1
4/8/2004	1				1
4/9/2004	1	2			
4/10/2004					
4/11/2004					19
4/12/2004					14
4/13/2004		1			19
4/14/2004	2	1			7
4/15/2004					6
4/16/2004	2	1			2
4/17/2004		3			9
4/20/2004			1		21
4/21/2004			2	1	42
4/22/2004			2		16
4/23/2004			4		20
4/24/2004		1			20
4/25/2004	1	2	4	5	29
4/26/2004	1	1	7		59
4/27/2004		1	2		27
4/28/2004		1			2
4/29/2004		4			3

Table E-15. Seiad Creek tributary frame trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy	Coho yoy	Coho yearling	Steelhead yoy	Steelhead yearling or older
4/30/2004	4	7		3	8
5/1/2004		4			2
5/2/2004		3		2	6
5/3/2004	2	3		0	7
5/4/2004	1	1		1	3
5/5/2004		1		2	5
5/6/2004	1	4		22	2
5/7/2004	3	10	1	29	6
5/8/2004	4	13		54	8
5/9/2004		12	1	16	11
5/10/2004	1	4		46	5
5/11/2004	1	9		232	7
5/12/2004	1	7		220	5
5/13/2004	1	17		206	5
5/14/2004		4		98	4
5/15/2004		8	1	387	3
5/16/2004	1	7		262	10
5/17/2004	1	2		304	3
5/18/2004		1	1	210	5
5/19/2004		2	1	224	
5/20/2004		6		269	5
5/21/2004		2		231	1
5/22/2004		2		279	2
5/23/2004		4		172	1
5/24/2004		1		146	
5/25/2004				67	
5/26/2004				107	1
5/27/2004		1		102	2
5/28/2004				59	2
5/29/2004		2		64	
5/30/2004		1		35	2
5/31/2004		2		25	2
6/1/2004		3		22	2
6/2/2004		4		32	
6/3/2004		19		24	
6/4/2004		8		28	
6/5/2004		2		24	
6/6/2004		12		78	
6/7/2004		3		60	
6/8/2004		1		63	

Table E-15. Seiad Creek tributary frame trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy	Coho yoy	Coho yearling	Steelhead yoy	Steelhead yearling or older
6/9/2004		2		41	
6/10/2004				30	
6/11/2004				32	
6/12/2004				20	
6/13/2004				14	
6/14/2004				4	
6/15/2004				14	
6/16/2004		10		103	3
6/17/2004		17		189	1
6/18/2004		35		254	
6/19/2004	1	18		286	1
6/20/2004		14		390	3
6/21/2004		41		543	
6/22/2004		12		91	
6/23/2004		1		136	3
6/24/2004		2		165	2
6/25/2004		2		51	1
6/26/2004		9		420	4
6/27/2004		11		145	5
6/28/2004		6		124	3
6/29/2004		9		113	6
6/30/2004	1	10		65	3
7/1/2004		4		135	1
7/2/2004		2		13	1
7/3/2004				25	2
104 days	33	416	62	7,614	657
Total CPUE	0.32	4.00	0.60	73.21	6.32

Table E-16. Elk Creek tributary frame trap daily and total catch-per-unit-effort. No hatchery marked fish were expected or encountered.

Date	Chinook yoy	Coho yoy	Coho yearling	Steelhead yoy	Steelhead yearling or older
5/29/2004	13			51	
5/30/2004	9			65	
5/31/2004	2			23	1
6/1/2004	4	1		15	1
6/2/2004	6	1		103	
6/3/2004	11			88	
6/4/2004	16			118	
6/5/2004	12			89	
6/6/2004	54			168	
6/7/2004	50	2		171	1
6/8/2004	50	1		164	
6/9/2004	45	5		144	
6/10/2004	27	1		157	
6/11/2004	23	2		146	1
6/12/2004	38			97	
6/13/2004	22			140	
6/14/2004	25			87	
6/15/2004	11	1		83	
6/16/2004	8			93	
6/17/2004	5	1		65	
6/18/2004	10			56	
6/19/2004	4			32	
6/20/2004	19			24	
6/21/2004	7			27	
6/22/2004	8	1		24	
6/23/2004	1			26	1
6/24/2004	4			30	
6/25/2004				23	
6/26/2004	2			48	
6/27/2004	2			19	
6/28/2004				17	
6/29/2004	3	1		30	
6/30/2004	6			31	
7/1/2004	6	2		51	
7/2/2004		2		11	
7/3/2004	4	3		10	2
7/7/2004				24	2
7/8/2004	8	1		56	
7/9/2004	4			42	

Table E-16. Elk Creek tributary frame trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy	Coho yoy	Coho yearling	Steelhead yoy	Steelhead yearling or older
7/10/2004	5			72	
7/11/2004	13			64	
7/12/2004	3			40	
7/13/2004	1	2		36	2
7/14/2004	3	5		1	
7/15/2004	5	2		15	
7/16/2004				4	1
7/17/2004	1			10	
7/18/2004	2			10	1
7/19/2004	1			11	1
7/20/2004	2	1		10	
7/21/2004		1		7	1
7/22/2004				19	
7/23/2004				30	2
7/24/2004				12	
7/25/2004				12	
55 days	555	36	0	3,001	17
Total CPUE	10.09	0.65	0.00	54.56	0.31

Table E-17. Elk Creek tributary rotary trap daily and total catch-per-unit-effort. No hatchery marked fish were expected or encountered.

Date	Chinook yoy	Coho yoy	Coho yearling	Steelhead yoy	Steelhead yearling or older
3/31/2004	65				4
4/1/2004	65				1
4/2/2004	49				
4/3/2004	41				4
4/4/2004	70				5
4/5/2004	80				12
4/6/2004	80				4
4/7/2004	121				4
4/8/2004	91	3			2
4/9/2004	48	10			5
4/10/2004	83	11	1	1	13
4/11/2004	103	12			7
4/12/2004	94	2			6
4/13/2004	75	1			10
4/14/2004	74	1		3	4
4/16/2004	57	1			2
4/17/2004	44	1			2
4/18/2004	37				
4/19/2004	30	1			
4/20/2004	33	1			1
4/21/2004	45	6			1
4/22/2004	31	4			3
4/23/2004	61	1			6
4/24/2004	39	11		1	5
4/25/2004	64	15		1	7
4/27/2004	240	19			23
4/29/2004	91	9			6
5/3/2004	32	1	1		5
5/4/2004	29			1	7
5/5/2004	24	1		1	2
5/6/2004	33	1		3	3
5/7/2004	27			2	3
5/8/2004	26	1			2
5/10/2004	17				1
5/11/2004	9	2		6	1
5/12/2004	14	1		23	
5/13/2004	18	1		22	1
5/14/2004	22			20	6
5/15/2004	17			14	3
5/16/2004	25	1		97	3

Table E-17. Elk Creek tributary rotary trap daily and total catch-per-unit-effort (continued).

Date	Chinook yoy	Coho yoy	Coho yearling	Steelhead yoy	Steelhead yearling or older
5/17/2004	15			75	2
5/18/2004	20			63	3
5/19/2004	21			145	4
5/20/2004	18			124	1
5/21/2004	9			210	2
5/22/2004	7			376	
5/23/2004	269			27	3
5/24/2004	193			260	1
5/25/2004	10	1		276	1
5/26/2004	5			330	
5/27/2004	7			254	1
5/28/2004	7			206	
5/30/2004	4			140	
5/31/2004	6			138	
6/1/2004	1			121	2
6/2/2004	5			114	
6/3/2004	6			117	
57 days	2,807	119	2	3,171	194
Total CPUE	49.25	2.09	0.04	55.63	3.40





**Appendix F. External symptoms and live vs. mortality tables.**

Days with trap malfunction or days not sampled are not reported. Blanks indicate zero catch. “NA” = not examined.

Table F-1. Young-of-year Chinook salmon external symptom and mortality observations at Bogus trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	777	3	
3/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	907	4	
3/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,194	7	
3/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,284	10	
3/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,522	85	
3/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	3,060	19	
3/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	3,501	17	
3/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	5,212	43	
3/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	4,157	73	
3/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,603	6	
3/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,642	11	
3/31/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,567	81	
4/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,648	47	
4/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,069	13	
4/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	642	14	
4/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,436	17	1
4/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,109	65	
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,360	14	
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,156	11	
4/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,059	32	
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,603	34	
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	824	4	
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	380	16	
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	362	8	
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	345	5	

Table F-1. Young-of-year Chinook salmon external symptom and mortality observations at Bogus trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/23/2004	NA	NA	NA	NA	NA	NA	NA		253		
4/27/2004	NA	NA	NA	NA	NA	NA	NA		93	1	
4/28/2004	NA	NA	NA	NA	NA	NA	NA		81	4	
4/29/2004	NA	NA	NA	NA	NA	NA	NA		47	3	
4/30/2004	NA	NA	NA	NA	NA	NA	NA		27	5	
5/1/2004	NA	NA	NA	NA	NA	NA	NA		16		3
5/2/2004	NA	NA	NA	NA	NA	NA	NA		27	1	
5/3/2004	NA	NA	NA	NA	NA	NA	NA		13	3	
5/4/2004	NA	NA	NA	NA	NA	NA	NA	1	6	2	
5/5/2004	NA	NA	NA	NA	NA	NA	NA		56	4	
5/6/2004	NA	NA	NA	NA	NA	NA	NA		18	3	
5/7/2004	NA	NA	NA	NA	NA	NA	NA		95	2	
5/9/2004	NA	NA	NA	NA	NA	NA	NA		20		
5/10/2004	NA	NA	NA	NA	NA	NA	NA		36	2	
5/11/2004	NA	NA	NA	NA	NA	NA	NA		22	2	
5/12/2004	NA	NA	NA	NA	NA	NA	NA		42	2	
5/13/2004	NA	NA	NA	NA	NA	NA	NA		46	2	
Grand Total	NA	NA	NA	NA	NA	NA	NA	1	47,317	675	4

Table F-2. Yearling Chinook salmon external symptom sampling and mortality at Bogus trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/11/2004	NA	NA	NA	NA	NA	NA	NA			1	
3/17/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/9/2004	NA	NA	NA	NA	NA	NA	NA			1	
Grand Total	NA	NA	NA	NA	NA	NA	NA	0	1	2	0

Table F-3. Young-of-year coho salmon external symptom and mortality observations at Bogus trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
3/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
3/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	27		
3/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	19		
3/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	54		
3/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	30		
3/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	23		
3/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	21		
3/31/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	9		
4/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	26		
4/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		
4/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	20		
4/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	24		
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	44		
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	45		
4/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	51		1
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	34		
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	11		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	23	1	
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	54	1	
4/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	154		1
4/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	116		
4/29/2004	NA	NA	NA	NA	NA	NA	NA	NA	108	3	
4/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	50		
5/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	23		
5/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	35		

Table F-3. Young-of-year coho salmon external symptom and mortality observations at Bogus trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/3/2004	NA	NA	NA	NA	NA	NA	NA		7		
5/4/2004	NA	NA	NA	NA	NA	NA	NA		10		
5/5/2004	NA	NA	NA	NA	NA	NA	NA		11		
5/6/2004	NA	NA	NA	NA	NA	NA	NA		29		
5/7/2004	NA	NA	NA	NA	NA	NA	NA		31		
5/9/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/11/2004	NA	NA	NA	NA	NA	NA	NA			1	
5/12/2004	NA	NA	NA	NA	NA	NA	NA		34		
5/13/2004	NA	NA	NA	NA	NA	NA	NA		126		
Grand Total	NA	NA	NA	NA	NA	NA	NA	0	1,280	6	2

Table F-4. Yearling coho salmon external symptom and mortality observations at Bogus trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/11/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/18/2004	NA	NA	NA	NA	NA	NA	NA		2		
3/30/2004	NA	NA	NA	NA	NA	NA	NA		34	1	
3/31/2004	NA	NA	NA	NA	NA	NA	NA		439	1	
4/1/2004	NA	NA	NA	NA	NA	NA	NA		131	1	
4/2/2004	NA	NA	NA	NA	NA	NA	NA		73	1	
4/6/2004	NA	NA	NA	NA	NA	NA	NA		3		
4/8/2004	NA	NA	NA	NA	NA	NA	NA		4		
4/13/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/14/2004	NA	NA	NA	NA	NA	NA	NA	3	7		
4/15/2004	NA	NA	NA	NA	NA	NA	NA	1	3		
4/21/2004	NA	NA	NA	NA	NA	NA	NA			1	
5/4/2004	NA	NA	NA	NA	NA	NA	NA	3	1	3	
5/5/2004	NA	NA	NA	NA	NA	NA	NA	4	2	2	
5/6/2004	NA	NA	NA	NA	NA	NA	NA	1	1		
Grand Total	NA	NA	NA	NA	NA	NA	NA	12	702	10	0

Table F-5. Young-of-year steelhead external symptom and mortality observations at Bogus trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/8/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/9/2004	NA	NA	NA	NA	NA	NA	NA		10		
4/13/2004	NA	NA	NA	NA	NA	NA	NA		2		
4/14/2004	NA	NA	NA	NA	NA	NA	NA		5		
4/15/2004	NA	NA	NA	NA	NA	NA	NA		7		
4/16/2004	NA	NA	NA	NA	NA	NA	NA		10		
4/20/2004	NA	NA	NA	NA	NA	NA	NA		4		
4/21/2004	NA	NA	NA	NA	NA	NA	NA		3		
4/22/2004	NA	NA	NA	NA	NA	NA	NA		3		
4/23/2004	NA	NA	NA	NA	NA	NA	NA		11		
4/27/2004	NA	NA	NA	NA	NA	NA	NA		23		
4/28/2004	NA	NA	NA	NA	NA	NA	NA		19		
4/29/2004	NA	NA	NA	NA	NA	NA	NA		23		
4/30/2004	NA	NA	NA	NA	NA	NA	NA		24		
5/1/2004	NA	NA	NA	NA	NA	NA	NA		3	1	
5/2/2004	NA	NA	NA	NA	NA	NA	NA		4		
5/3/2004	NA	NA	NA	NA	NA	NA	NA		17		
5/4/2004	NA	NA	NA	NA	NA	NA	NA		5		
5/5/2004	NA	NA	NA	NA	NA	NA	NA		15		
5/6/2004	NA	NA	NA	NA	NA	NA	NA		27		
5/7/2004	NA	NA	NA	NA	NA	NA	NA		78		
5/9/2004	NA	NA	NA	NA	NA	NA	NA		57		
5/10/2004	NA	NA	NA	NA	NA	NA	NA		108		
5/11/2004	NA	NA	NA	NA	NA	NA	NA		47		
5/12/2004	NA	NA	NA	NA	NA	NA	NA		46	2	
5/13/2004	NA	NA	NA	NA	NA	NA	NA		60	1	
Grand Total	NA	NA	NA	NA	NA	NA	NA	0	612	4	0

Table F-6. Steelhead yearling external symptom and mortality observations at Bogus trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/10/2004	NA	NA	NA	NA	NA	NA	NA	1	13		
3/11/2004	NA	NA	NA	NA	NA	NA	NA		5		
3/12/2004	NA	NA	NA	NA	NA	NA	NA		4	1	
3/16/2004	NA	NA	NA	NA	NA	NA	NA		12		
3/17/2004	NA	NA	NA	NA	NA	NA	NA		6		
3/18/2004	NA	NA	NA	NA	NA	NA	NA		14		
3/19/2004	NA	NA	NA	NA	NA	NA	NA		3		
3/24/2004	NA	NA	NA	NA	NA	NA	NA		7		
3/25/2004	NA	NA	NA	NA	NA	NA	NA		4		
3/26/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/30/2004	NA	NA	NA	NA	NA	NA	NA		2		
3/31/2004	NA	NA	NA	NA	NA	NA	NA		2	1	
4/1/2004	NA	NA	NA	NA	NA	NA	NA		8		
4/2/2004	NA	NA	NA	NA	NA	NA	NA	1	4	1	
4/6/2004	NA	NA	NA	NA	NA	NA	NA		58		
4/7/2004	NA	NA	NA	NA	NA	NA	NA	1	15		
4/8/2004	NA	NA	NA	NA	NA	NA	NA	2	42		
4/9/2004	NA	NA	NA	NA	NA	NA	NA		53	1	
4/13/2004	NA	NA	NA	NA	NA	NA	NA		17	1	
4/14/2004	NA	NA	NA	NA	NA	NA	NA		15		
4/15/2004	NA	NA	NA	NA	NA	NA	NA	2	50		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	3	42	1	
4/21/2004	NA	NA	NA	NA	NA	NA	NA	3	40		
4/23/2004	NA	NA	NA	NA	NA	NA	NA			1	
5/4/2004	NA	NA	NA	NA	NA	NA	NA	3	6		
5/5/2004	NA	NA	NA	NA	NA	NA	NA	8	8	2	
5/6/2004	NA	NA	NA	NA	NA	NA	NA		2		
5/9/2004	NA	NA	NA	NA	NA	NA	NA			1	
5/10/2004	NA	NA	NA	NA	NA	NA	NA	1		2	

Table F-6. Steelhead yearling external symptom and mortality observations at Bogus trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/11/2004	NA	NA	NA	NA	NA	NA	NA			1	
5/12/2004	NA	NA	NA	NA	NA	NA	NA				1
5/13/2004	NA	NA	NA	NA	NA	NA	NA	2	1	1	
Grand Total	NA	NA	NA	NA	NA	NA	NA	27	434	14	1



Table F-7. Young-of-year Chinook salmon external symptom and mortality observations at the I-5 trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	13		
3/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	369	2	
3/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	412	2	
3/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	892	7	
3/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,116	2	
3/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,304	226	
3/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	969	13	
3/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,784	10	
3/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,754	615	
3/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,671	26	
3/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,930	47	
3/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,354	67	
3/31/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,908	1,132	
4/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,042	118	
4/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	3,051	44	
4/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,032	52	
4/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	3,282	164	
4/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,259	223	1
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,357	786	
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,918	24	
4/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	2,204	61	
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	1,352	40	
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	537	14	
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	347	9	
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	386	18	
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	111		
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	123		
4/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	41	4	
4/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	9	6	3

Table F-7. Young-of-year Chinook salmon external symptom and mortality observations at the I-5 trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/29/2004	NA	NA	NA	NA	NA	NA	NA		15		
4/30/2004	NA	NA	NA	NA	NA	NA	NA		6		
5/4/2004	NA	NA	NA	NA	NA	NA	NA		5		
5/5/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/6/2004	NA	NA	NA	NA	NA	NA	NA		6	3	
Grand Total	NA	NA	NA	NA	NA	NA	NA	0	39,560	3,715	4

Table F-8. Yearling Chinook salmon external symptom and mortality observations at the I-5 trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/21/2004	NA	NA	NA	NA	NA	NA	NA	1		1	
Grand Total	NA	NA	NA	NA	NA	NA	NA	1	0	1	0

Table F-9. Young-of-year coho salmon external symptom and mortality observations at the I-5 trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		
3/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	10		
3/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
3/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	10		
3/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	19		
3/31/2004	NA	NA	NA	NA	NA	NA	NA	NA	61		
4/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	15		
4/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	36		
4/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	3	1	
4/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	15		
4/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	7	1	
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	22		
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	16		
4/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	38		
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	29		
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	25		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	9		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
4/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		1
4/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/29/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
Grand Total	NA	NA	NA	NA	NA	NA	NA	0	346	2	1

Table F-10. Yearling coho salmon external symptom and mortality observations at the I-5 trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/26/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/30/2004	NA	NA	NA	NA	NA	NA	NA		57	5	
3/31/2004	NA	NA	NA	NA	NA	NA	NA		30		
4/1/2004	NA	NA	NA	NA	NA	NA	NA		53	1	
4/2/2004	NA	NA	NA	NA	NA	NA	NA		24		
4/6/2004	NA	NA	NA	NA	NA	NA	NA	5	3	2	
4/7/2004	NA	NA	NA	NA	NA	NA	NA	6	7	1	
4/8/2004	NA	NA	NA	NA	NA	NA	NA	2	3	2	
4/9/2004	NA	NA	NA	NA	NA	NA	NA	3	3		
4/13/2004	NA	NA	NA	NA	NA	NA	NA	4	4	1	
4/14/2004	NA	NA	NA	NA	NA	NA	NA		3		
4/15/2004	NA	NA	NA	NA	NA	NA	NA	1	2		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	3	6		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	6	8	1	
4/23/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/27/2004	NA	NA	NA	NA	NA	NA	NA	3		3	
4/28/2004	NA	NA	NA	NA	NA	NA	NA	1		1	
4/29/2004	NA	NA	NA	NA	NA	NA	NA	2		2	
5/4/2004	NA	NA	NA	NA	NA	NA	NA	4	1	3	
5/6/2004	NA	NA	NA	NA	NA	NA	NA	1	1		
Grand Total	NA	NA	NA	NA	NA	NA	NA	41	207	22	0

Table F-11. Young-of-year steelhead external symptom and mortality observations at the I-5 trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/26/2004	NA	NA	NA	NA	NA	NA	NA		3		
4/2/2004	NA	NA	NA	NA	NA	NA	NA		3		
4/9/2004	NA	NA	NA	NA	NA	NA	NA		3		
4/13/2004	NA	NA	NA	NA	NA	NA	NA		12		1
4/14/2004	NA	NA	NA	NA	NA	NA	NA		9		
4/15/2004	NA	NA	NA	NA	NA	NA	NA		12		
4/16/2004	NA	NA	NA	NA	NA	NA	NA		4		
4/20/2004	NA	NA	NA	NA	NA	NA	NA		15	1	
4/21/2004	NA	NA	NA	NA	NA	NA	NA		14		
4/22/2004	NA	NA	NA	NA	NA	NA	NA		13		
4/23/2004	NA	NA	NA	NA	NA	NA	NA	1	5		
4/27/2004	NA	NA	NA	NA	NA	NA	NA		2		
4/28/2004	NA	NA	NA	NA	NA	NA	NA		5		
4/29/2004	NA	NA	NA	NA	NA	NA	NA		5		
4/30/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/4/2004	NA	NA	NA	NA	NA	NA	NA		4		
5/5/2004	NA	NA	NA	NA	NA	NA	NA		2		
Grand Total	NA	NA	NA	NA	NA	NA	NA	1	112	1	1

Table F-12. Yearling and older steelhead external symptom and mortality observations at the I-5 trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/11/2004	NA	NA	NA	NA	NA	NA	NA	1		1	
3/16/2004	NA	NA	NA	NA	NA	NA	NA		3		
3/18/2004	NA	NA	NA	NA	NA	NA	NA		3		
3/23/2004	NA	NA	NA	NA	NA	NA	NA			2	
3/24/2004	NA	NA	NA	NA	NA	NA	NA	1	7		
3/25/2004	NA	NA	NA	NA	NA	NA	NA		2	1	
3/26/2004	NA	NA	NA	NA	NA	NA	NA		2		
3/30/2004	NA	NA	NA	NA	NA	NA	NA	1	2		
3/31/2004	NA	NA	NA	NA	NA	NA	NA		3		
4/1/2004	NA	NA	NA	NA	NA	NA	NA		4		
4/6/2004	NA	NA	NA	NA	NA	NA	NA	2	1		1
4/7/2004	NA	NA	NA	NA	NA	NA	NA	1	3	1	
4/8/2004	NA	NA	NA	NA	NA	NA	NA	3	7		
4/13/2004	NA	NA	NA	NA	NA	NA	NA			2	
4/14/2004	NA	NA	NA	NA	NA	NA	NA		4		
4/15/2004	NA	NA	NA	NA	NA	NA	NA	2	3		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	3	4		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	5	7		
4/27/2004	NA	NA	NA	NA	NA	NA	NA	1	1		
4/28/2004	NA	NA	NA	NA	NA	NA	NA	1		1	
4/30/2004	NA	NA	NA	NA	NA	NA	NA	1		1	
5/4/2004	NA	NA	NA	NA	NA	NA	NA	2	1	1	
Grand Total	NA	NA	NA	NA	NA	NA	NA	24	57	10	1

Table F-13. Young-of-year Chinook salmon external symptom and mortality observations at the Kinsman trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	145	14	
3/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	179	7	
3/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	123	5	
3/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	151	5	1
3/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	143	25	
3/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	185	2	
3/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	200	1	
3/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	209	2	
3/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	236	26	
3/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	245	12	
3/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	189	66	
3/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	133	1	
3/31/2004	NA	NA	NA	NA	NA	NA	NA	NA	218	16	
4/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	84	11	
4/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	63	1	
4/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	33	1	
4/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	55	2	
4/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	65		
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	70	11	
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	188	5	
4/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	112	4	
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	78	4	
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	56		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	57	3	
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	49	4	
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	23	2	
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	12	1	
4/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	10	1	
4/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	13	1	

Table F-13. Young-of-year Chinook salmon external symptom and mortality observations at the Kinsman trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/29/2004	NA	NA	NA	NA	NA	NA	NA		10	5	
4/30/2004	NA	NA	NA	NA	NA	NA	NA		27	7	
5/4/2004	NA	NA	NA	NA	NA	NA	NA		67	45	
5/5/2004	NA	NA	NA	NA	NA	NA	NA		46	65	
5/6/2004	NA	NA	NA	NA	NA	NA	NA		23	18	
5/7/2004	NA	NA	NA	NA	NA	NA	NA		105	54	
5/9/2004	NA	NA	NA	NA	NA	NA	NA		105	65	
5/10/2004	NA	NA	NA	NA	NA	NA	NA		135	20	
5/11/2004	NA	NA	NA	NA	NA	NA	NA		84	9	
5/12/2004	NA	NA	NA	NA	NA	NA	NA		58	7	1
5/13/2004								3	81	77	
5/14/2004	6	43	11		29				175	78	
5/15/2004									71	91	7
5/16/2004									2		
5/18/2004				3		3			50	53	
5/19/2004									40	31	
5/20/2004		11	22		18	3		3	38	29	
5/21/2004	6	29	22	2	17			1	91	54	
5/22/2004									79	61	
5/23/2004								1	39	37	
5/24/2004	4	14	4		3			4	22	19	
5/25/2004	5	3						1	39	44	
5/26/2004	9	16	15	1	12	7	1		42	32	
5/27/2004	3	9			1	1		3	15	39	
5/28/2004	8	4	2		3			14	14	22	
5/29/2004		6	2	2	2			1	14	12	
5/30/2004	1	9	11		5	1	1	6	24	20	
5/31/2004	8	18	5		4			5	32	30	
6/1/2004	5	17	14	2	1	1		6	51	39	



Table F-13. Young-of-year Chinook salmon external symptom and mortality observations at the Kinsman trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
6/2/2004	6	10	2					1	17	27	1
6/3/2004	5	4	1	2	3			3	12	33	
6/4/2004	3	7	3		1		1	36	13	93	2
6/5/2004	9	8	6	3	1	1		63	33	74	
6/6/2004	13	10	5	12	5			32	90	111	2
6/7/2004	3		5	6	2			35	14	55	
6/8/2004	7	4	3		3			3	14	64	
6/9/2004	4	5	4	3	3			11	16	35	
6/10/2004	6	11	15	4	7			9	36	9	39
6/11/2004	9	18	19	11	11			33	97	99	
6/12/2004	11	12	9	10	5			6	42	79	8
6/13/2004	4	19	10		13	1		8	29	58	4
6/14/2004	5	16	12	1	1	2		21	48	162	10
6/15/2004	0	21	17		5	1		18	168	183	4
6/16/2004	1	8	8	3	3			18	22	95	
6/17/2004		25	15	6	5	1		13	76	169	
6/18/2004	13	12	9	4	11			6	108	137	18
6/19/2004	4	23	11	2	12	2		14	96	81	
6/20/2004	15	13		1	4			2	32	17	1
6/21/2004	6	11	7	2	9			1	26	9	
6/22/2004	4	7	7	3	8				21	27	
6/23/2004	4	3	5	6	3				18	3	
6/24/2004	2	14	5	3	7			7	24	18	
6/25/2004		2	2		1				4	4	
6/26/2004	1		3	3	1				7	4	
6/27/2004		1		2	1				3	6	
6/28/2004			2	5	2				7	5	
7/1/2004									1		
7/3/2004				2					2		
Grand Total	190	443	293	104	222	24	3	388	5,979	2,953	98

Table F-14. Yearling Chinook salmon external symptom and mortality observations at the Kinsman trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/21/2004								1		1	
5/22/2004									1		
6/7/2004								1		1	
Grand Total	0	0	0	0	0	0	0	2	1	2	0

Table F-15. Young-of-year coho salmon external symptom and mortality observations at the Kinsman trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
3/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
3/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
3/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
3/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	19		1
3/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	20		
3/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/31/2004	NA	NA	NA	NA	NA	NA	NA	NA	9		
4/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
4/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
4/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	9		
4/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	26	3	
4/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	31		
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	12		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	5	1	
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	15		
4/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/29/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
5/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	9		
5/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		

Table F-15. Young-of-year coho salmon external symptom and mortality observations at the Kinsman trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/12/2004	NA	NA	NA	NA	NA	NA	NA		6		
5/13/2004									9		
5/14/2004	2	9	1						12		
5/15/2004									9	3	
5/18/2004									4		
5/19/2004									5		
5/20/2004		4	2						6		
5/21/2004		2							2		
5/22/2004									5		
5/23/2004									1		
5/24/2004		1							2		
5/25/2004									5		
5/26/2004	1	1							2		
5/28/2004	2	1							3		
5/29/2004		2							3		
5/30/2004									1		
5/31/2004		1							1		
6/4/2004		2							3		
6/11/2004	1			1					2		
6/12/2004									2		
6/14/2004		2							2		
6/16/2004										1	
Grand Total	6	25	3	1	0	0	0	0	307	8	1

Table F-16. Yearling coho salmon external symptom and mortality observations at the Kinsman trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/2/2004	NA	NA	NA	NA	NA	NA	NA			1	
4/6/2004	NA	NA	NA	NA	NA	NA	NA			1	
4/27/2004	NA	NA	NA	NA	NA	NA	NA			1	
4/29/2004	NA	NA	NA	NA	NA	NA	NA	2		2	
5/5/2004	NA	NA	NA	NA	NA	NA	NA	1	2		
5/6/2004	NA	NA	NA	NA	NA	NA	NA	1		1	
5/9/2004	NA	NA	NA	NA	NA	NA	NA	1		1	
5/10/2004	NA	NA	NA	NA	NA	NA	NA	1	2	1	
5/15/2004									1		
5/21/2004								1		1	
6/1/2004								1		1	
6/19/2004										1	
Grand Total	0	0	0	0	0	0	0	8	5	11	0

Table F-17. Young-of-year steelhead external symptom and mortality observations at the Kinsman trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	2	6	
5/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	1	1	
5/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		
5/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	2	3	
5/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	20	1	
5/13/2004									4		
5/14/2004	1								9		
5/15/2004									5		
5/18/2004									25	1	
5/19/2004									24		
5/20/2004									12		
5/21/2004									16		
5/22/2004									21		
5/23/2004									20		
5/24/2004									13	1	
5/25/2004									20		
5/26/2004									10		
5/27/2004									10		
5/28/2004									42	3	

Table F-17. Young-of-year steelhead external symptom and mortality observations at the Kinsman trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/29/2004									11		
5/30/2004									11		
5/31/2004									11	1	
6/1/2004		1			1				3		
6/2/2004										2	
6/4/2004									3		
6/5/2004									7	1	
6/6/2004									12		
6/7/2004									9	1	
6/8/2004									26	1	
6/9/2004		1							13		
6/10/2004		1	2						9	1	
6/11/2004	1		1						7		
6/12/2004	1								19	3	
6/13/2004									7		
6/14/2004			1						7	4	
6/15/2004		1							5	2	
6/16/2004									2	1	
6/18/2004									1		
6/19/2004										4	
6/20/2004										1	
6/22/2004									1	1	
6/23/2004										1	
6/24/2004	1								4	6	
6/26/2004									4	1	
6/27/2004										1	
6/28/2004									5	1	
7/1/2004										1	
7/2/2004										1	
Grand Total	4	6	4		1				457	51	

Table F-18. Yearling and older steelhead symptom and mortality observations at the Kinsman trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/10/2004	NA	NA	NA	NA	NA	NA	NA		2		
3/11/2004	NA	NA	NA	NA	NA	NA	NA		2		
3/12/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/16/2004	NA	NA	NA	NA	NA	NA	NA		2		
3/17/2004	NA	NA	NA	NA	NA	NA	NA		4		
3/19/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/23/2004	NA	NA	NA	NA	NA	NA	NA		4		
3/24/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/25/2004	NA	NA	NA	NA	NA	NA	NA			1	
3/26/2004	NA	NA	NA	NA	NA	NA	NA			1	
3/30/2004	NA	NA	NA	NA	NA	NA	NA	1	1		
4/1/2004	NA	NA	NA	NA	NA	NA	NA		2		
4/6/2004	NA	NA	NA	NA	NA	NA	NA	1	1		
4/7/2004	NA	NA	NA	NA	NA	NA	NA	2	2		
4/13/2004	NA	NA	NA	NA	NA	NA	NA	6	4	2	
4/14/2004	NA	NA	NA	NA	NA	NA	NA	1		1	
4/15/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/20/2004	NA	NA	NA	NA	NA	NA	NA			1	
4/21/2004	NA	NA	NA	NA	NA	NA	NA	1	1		
4/22/2004	NA	NA	NA	NA	NA	NA	NA	1		1	
4/27/2004	NA	NA	NA	NA	NA	NA	NA	1	1	1	
4/28/2004	NA	NA	NA	NA	NA	NA	NA	3		3	
4/29/2004	NA	NA	NA	NA	NA	NA	NA	2		2	
4/30/2004	NA	NA	NA	NA	NA	NA	NA	4	2	3	
5/4/2004	NA	NA	NA	NA	NA	NA	NA	2	2		
5/5/2004	NA	NA	NA	NA	NA	NA	NA	5	4	2	
5/6/2004	NA	NA	NA	NA	NA	NA	NA	6	5	1	
5/7/2004	NA	NA	NA	NA	NA	NA	NA	1	3	2	
5/9/2004	NA	NA	NA	NA	NA	NA	NA	5	6	2	



Table F-18. Yearling and older steelhead symptom and mortality observations at the Kinsman trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/10/2004	NA	NA	NA	NA	NA	NA	NA	5	5	1	
5/11/2004	NA	NA	NA	NA	NA	NA	NA	4	5	1	
5/12/2004	NA	NA	NA	NA	NA	NA	NA	11	11	1	
5/13/2004		1	4					6	5	1	
5/14/2004	1	3						13	12	1	
5/15/2004								8	9	7	
5/16/2004								1	5		
5/18/2004								3	3		
5/19/2004								7	11	2	
5/20/2004	3	3		1				10	9	4	
5/21/2004	2	4	1					7	7		
5/22/2004								12	3	12	
5/23/2004								12	7	5	
5/24/2004								10	4	5	1
5/25/2004	4	4						12	8	5	
5/26/2004	2	3						8	7	2	
5/27/2004		2						9	2	7	
5/28/2004	3	1		1				9	5	5	
5/29/2004		1		1				2	2	1	
5/30/2004		1	2					4	3	3	
5/31/2004								1	1		
6/1/2004		1	1	1				3	3		
6/2/2004								4	1	3	
6/3/2004		1						2	3	2	
6/4/2004	1	2						9	3	7	
6/5/2004		4						9	8	2	
6/6/2004	2							26	14	12	
6/7/2004								5	6		
6/8/2004		2						6	5	1	

Table F-18. Yearling and older steelhead symptom and mortality observations at the Kinsman trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
6/9/2004				1				6	1	5	
6/10/2004	1	3	1					13	5	8	1
6/11/2004		7	1					14	9	7	
6/12/2004		1		1				11	2	10	
6/13/2004	2		2					5	4	7	
6/14/2004		1						11	3	9	
6/15/2004		9						10	9	4	
6/16/2004	1	1						14	2	14	
6/17/2004		9		1				15	11	6	
6/18/2004	1	4	1	1				19	7	12	
6/19/2004		1						3	1	9	
6/20/2004								4	1	3	
6/21/2004	2	4						12	6	6	
6/22/2004	1	3						11	4	7	
6/23/2004				1				3	1	3	
6/24/2004	1	2						18	4	15	
6/25/2004	2	2		1				7	5	3	
6/26/2004		1	1	1				9	4	5	
6/27/2004				1				4	1	3	
6/28/2004								1		2	
6/29/2004								1	1		
6/30/2004		2						3	2	2	
7/2/2004								1		1	
7/3/2004										1	
Grand Total	29	83	14	12	0	0	0	455	302	255	2

Table F-19. Young-of-year Chinook salmon symptom and mortality observations at the Happy Camp trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	9		
3/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
3/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	9		
3/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	12		
3/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	1	4	
3/10/2004	NA	NA	NA	NA	NA	NA	NA	NA		5	
3/11/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
3/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	26	3	
3/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	6	4	
3/14/2004	NA	NA	NA	NA	NA	NA	NA	NA		15	
3/15/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
3/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	2	1	
3/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	12	4	
3/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	8	2	
3/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	1	16	
3/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	50	10	
3/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	17	1	
3/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	17		
3/29/2004	NA	NA	NA	NA	NA	NA	NA	NA	16	2	
3/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	22	4	
3/31/2004	NA	NA	NA	NA	NA	NA	NA	NA	20	3	
4/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	37		
4/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	35		
4/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	12	1	
4/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	27		
4/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	22	1	
4/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	11		

Table F-19. Young-of-year Chinook salmon symptom and mortality observations at the Happy Camp trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		
4/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	11	1	
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	9		
4/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
4/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	9		
4/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	27	3	
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	17	1	
4/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	10		
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	32	1	
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	47		
4/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	29	2	
4/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	56		
4/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	28		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	24		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	31	1	
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	24	2	
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	18		
4/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
4/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	9		
4/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	10		
4/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	8	1	
4/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/29/2004	NA	NA	NA	NA	NA	NA	NA	NA	12		
5/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	5	2	
5/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	4	2	
5/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	1	1	
5/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	19	6	
5/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	47	1	
5/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	39	9	

Table F-19. Young-of-year Chinook salmon symptom and mortality observations at the Happy Camp trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/9/2004	NA	NA	NA	NA	NA	NA	NA		54	10	
5/10/2004	NA	NA	NA	NA	NA	NA	NA		58	22	
5/11/2004	NA	NA	NA	NA	NA	NA	NA		51	13	
5/12/2004	NA	NA	NA	NA	NA	NA	NA		95	14	
5/13/2004	NA	NA	NA	NA	NA	NA	NA		53	10	
5/14/2004	NA	NA	NA	NA	NA	NA	NA		72		
5/15/2004	NA	NA	NA	NA	NA	NA	NA		124	26	
5/16/2004	NA	NA	NA	NA	NA	NA	NA	1	78	19	
5/17/2004	20	2	1						23	3	
5/18/2004	13	6		1		1		3	20	9	
5/19/2004	5	18	9				1		32	15	
5/20/2004	18	9	2			1		2	31	17	
5/21/2004	16	22	3	3	3	2		1	73	41	
5/22/2004	19	17	4	2	2				89	40	
5/23/2004	10	23	9	1	12		1		44	32	
5/24/2004	25	7	4		1				83		
5/25/2004	14	13	11		5				38	38	3
5/26/2004	27	7	3		1				216	86	
5/27/2004	16	14	5						311	74	
5/28/2004	8	12	13		1				93	37	
5/29/2004	2	7	3		2				12	8	
5/30/2004									31	23	
5/31/2004	21	7	2						52	34	
6/1/2004	13	14	10	1					208	8	
6/2/2004	18	11	9		1				143	9	3
6/3/2004	16	20	9		1				254	9	
6/4/2004	12	29		1	2	1			195	61	
6/5/2004									83	39	
6/6/2004	13	16	1					2	52	49	

Table F-19. Young-of-year Chinook salmon symptom and mortality observations at the Happy Camp trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
6/7/2004	14	16	3		2				45	34	
6/8/2004	23	2	7	1					54	37	
6/9/2004	10	12	8	1	1				69	46	4
6/10/2004	4	21	8		3				76	45	
6/11/2004	12	18	3	1	5				144	80	
6/12/2004	5	19	5		5				133	97	
6/13/2004	2	18	6	3	5				139	72	
6/14/2004	7	21	2		2				83	63	
6/15/2004	4	15	10	1	1				247	84	4
6/16/2004	6	19	5		3				455	107	
6/17/2004	9	20	1		1				35	10	
6/18/2004	11	13	5		3				228	133	22
6/20/2004	5	19	6		1				121	93	
6/21/2004	10	14	5	1	4				74	63	
6/22/2004	10	12	8		2				123	38	12
6/23/2004	16	12	2		4				146	30	
6/24/2004	16	11	3		1				136	25	
6/25/2004	20	9	1		1				91	21	
6/26/2004	15	13	2		1				114	21	
6/27/2004	20	6	3	1	2				114	38	
6/28/2004	22	6	2		2				70	15	
6/29/2004	10	3							13	7	
6/30/2004	16	6							22	7	
7/1/2004	9	2							11	5	
7/2/2004	6								7	2	
7/3/2004	5	1							6	2	
7/7/2004	27	3							38	5	
7/8/2004	22	1							23	4	
7/9/2004	3								3	1	

Table F-19. Young-of-year Chinook salmon symptom and mortality observations at the Happy Camp trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
7/12/2004										1	
7/13/2004	1	1							2	1	
Grand Total	626	567	193	18	80	5	2	9	6,421	2,044	48

Table F-20. Yearling Chinook salmon symptom and mortality observations at the Happy Camp trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/6/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/8/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/10/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/12/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/15/2004	NA	NA	NA	NA	NA	NA	NA		3		
3/18/2004	NA	NA	NA	NA	NA	NA	NA		4		
3/19/2004	NA	NA	NA	NA	NA	NA	NA		1	3	
3/20/2004	NA	NA	NA	NA	NA	NA	NA		2		
3/21/2004	NA	NA	NA	NA	NA	NA	NA		2		
3/22/2004	NA	NA	NA	NA	NA	NA	NA		2		
3/29/2004	NA	NA	NA	NA	NA	NA	NA			1	
4/1/2004	NA	NA	NA	NA	NA	NA	NA		2		
4/2/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/3/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/16/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/20/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/21/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/8/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/10/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/14/2004	NA	NA	NA	NA	NA	NA	NA		1		
7/13/2004										1	
Grand Total	0	0	0	0	0	0	0	0	28	5	0



Table F-21 Young-of-year coho salmon symptom and mortality observations at the Happy Camp trap site

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/12/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/15/2004	NA	NA	NA	NA	NA	NA	NA	NA		3	
5/19/2004	1								1		
5/21/2004										8	
5/22/2004	2								2		
5/24/2004	1								1		
5/31/2004									1		
6/3/2004	1								1		
6/7/2004	1								1		
6/8/2004	2								2		
6/9/2004	2								2		
6/11/2004	1								1		
6/21/2004	1								1		
6/22/2004									1		
6/24/2004	2								2		
7/1/2004	1								1		
7/7/2004	1								1		
Grand Total	16	0	0	0	0	0	0	0	31	12	0

Table F-22. Yearling coho salmon symptom and mortality observations at the Happy Camp trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/5/2004	NA	NA	NA	NA	NA	NA	NA		2		
3/10/2004	NA	NA	NA	NA	NA	NA	NA		3		
3/11/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/13/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/15/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/20/2004	NA	NA	NA	NA	NA	NA	NA	2	2		
5/11/2004	NA	NA	NA	NA	NA	NA	NA		1	2	
5/13/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/15/2004	NA	NA	NA	NA	NA	NA	NA		2		
5/17/2004	2								2		
5/21/2004	1								1	4	
5/22/2004	1	1							2		
5/23/2004	1	0							1		
5/25/2004	1	0							1		
Grand Total	6	1	0	0	0	0	0	2	21	6	0

Table F-23. Young-of-year steelhead symptom and mortality observations at the Happy Camp trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/7/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
5/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
5/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
5/17/2004	1								1		
5/30/2004									3		
6/1/2004	1								1		
6/3/2004	1								1		
6/4/2004									3		
6/5/2004									7		
6/6/2004	1								1		
6/7/2004	1	1							2		
6/8/2004			2						2		
6/9/2004	3								3		
6/10/2004	3								3		
6/11/2004	2								4		
6/13/2004									10		
6/15/2004	4								4		
6/16/2004	2								2		
6/17/2004	2	1							3		
6/18/2004	1								1		1
6/20/2004									11		
6/21/2004	2								2		
6/22/2004	5								8	1	
6/23/2004	2								2		
6/24/2004	5	1							6	1	

Table F-23. Young-of-year steelhead symptom and mortality observations at the Happy Camp trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
6/25/2004	1	1			1				2		
6/26/2004									7		
6/27/2004									14		
6/28/2004	1	2			1				4		
6/29/2004	1								1		
6/30/2004	1								6	4	
7/1/2004	2								2		
7/3/2004										1	
7/8/2004	4	1							5	2	
Grand Total	46	7	2	0	2	0	0	0	133	10	1

Table F-24. Yearling and older steelhead symptom and mortality observations at the Happy Camp trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	16		
3/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	15		
3/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		
3/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	16		
3/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	12		
3/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	17	1	
3/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
3/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	15		
3/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	16		
3/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	6		
3/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
3/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
3/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	10	1	
3/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
3/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
3/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	6		
3/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/10/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/19/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/24/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	

Table F-24. Yearling and older steelhead symptom and mortality observations at the Happy Camp trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/27/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/28/2004	NA	NA	NA	NA	NA	NA	NA			2	
4/29/2004	NA	NA	NA	NA	NA	NA	NA		4		
5/3/2004	NA	NA	NA	NA	NA	NA	NA	1		1	
5/4/2004	NA	NA	NA	NA	NA	NA	NA		1	1	
5/6/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/7/2004	NA	NA	NA	NA	NA	NA	NA		2	4	
5/8/2004	NA	NA	NA	NA	NA	NA	NA		1	5	
5/9/2004	NA	NA	NA	NA	NA	NA	NA		1	3	
5/10/2004	NA	NA	NA	NA	NA	NA	NA		6		
5/11/2004	NA	NA	NA	NA	NA	NA	NA	1	2	1	
5/12/2004	NA	NA	NA	NA	NA	NA	NA	1	7	4	
5/13/2004	NA	NA	NA	NA	NA	NA	NA		6	5	
5/14/2004	NA	NA	NA	NA	NA	NA	NA		6	1	
5/15/2004	NA	NA	NA	NA	NA	NA	NA		10	7	
5/16/2004	NA	NA	NA	NA	NA	NA	NA	3	9	3	
5/17/2004	5							2	5		
5/18/2004	3								3	1	
5/19/2004	3								3		
5/20/2004	4	2	1						7	3	
5/21/2004	8								8		
5/22/2004	6	1							7	4	
5/23/2004	3								3	3	
5/24/2004	5								5	1	
5/25/2004	5	2						1	11	1	
5/26/2004	5	2							7	9	
5/27/2004	1	1							3	2	
5/28/2004	1								1	5	
5/29/2004									2	1	

Table F-24. Yearling and older steelhead symptom and mortality observations at the Happy Camp trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/31/2004	1								1	1	
6/1/2004	3	2							5	1	
6/2/2004	1	3							4		
6/3/2004	1	2							3	1	
6/4/2004										4	
6/5/2004										1	
6/6/2004	2								2	10	
6/7/2004	1	3							4		
6/8/2004	4								4	2	
6/9/2004	1	4							5	7	
6/10/2004	3	2	1		1				6	5	
6/11/2004	4	5							9	7	
6/12/2004										4	
6/13/2004										12	
6/14/2004	2	2							4		
6/15/2004	5	2							7	7	
6/16/2004	4	5	2		2				11	3	
6/17/2004	5	1							6	5	
6/18/2004	2	5							7	10	1
6/20/2004										11	
6/21/2004	3	1	1						5	3	
6/22/2004	1	3							6	6	
6/23/2004	4	1							5	10	
6/24/2004	3	5			1				8	8	
6/25/2004	1	3							4	13	
6/28/2004		3							3	5	
6/29/2004	1								1	2	
6/30/2004		1							1		
7/1/2004	3	2			1				5		

Table F-24. Yearling and older steelhead symptom and mortality observations at the Happy Camp trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
7/2/2004	2								2	5	
7/3/2004		1							1	5	
7/7/2004		1	1						2	5	
7/8/2004		2							2	8	
7/9/2004	2								2		
7/13/2004		1	1						2	2	
Grand Total	108	68	7	0	5	0	0	9	426	257	1



Table F-25. Young-of-year Chinook salmon symptom and mortality observations at the Persido Bar trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
3/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
3/31/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		
4/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	6		
4/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
4/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		
4/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	10	2	
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	12		
4/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	6	1	
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
4/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	11		
4/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	7	1	
4/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	6		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	22		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		

Table F-25. Young-of-year Chinook salmon symptom and mortality observations at the Persido Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
4/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
4/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/29/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
5/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
5/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
5/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	6		
5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	32	1	
5/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	21	4	
5/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	10	1	
5/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	9	1	
5/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	22	6	
5/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
5/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	20		
5/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	21	5	
5/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	17		
5/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	22		
5/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	28	11	
5/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	32	4	
5/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	35		
5/27/2004	28	2				1			64		
5/28/2004									13		
5/29/2004									13		
5/30/2004	27	4							88		
5/31/2004	26	4							70		
6/1/2004	30								40	15	
6/2/2004	20	7	3						40	4	

Table F-25. Young-of-year Chinook salmon symptom and mortality observations at the Persido Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
6/3/2004									56	19	
6/4/2004	1								71	14	3
6/5/2004									53	5	
6/6/2004	30				3	4			85	49	
6/7/2004	18	4	8						63	3	
6/8/2004	21	9							374	13	
6/9/2004	17	13							141		
6/10/2004	29	1			1				159		
6/11/2004	16	1							324	7	
6/12/2004	27								35	9	
6/13/2004	13	17							445	3	
6/14/2004	19	12							608	13	
6/15/2004	14	16							640	33	4
6/16/2004	18	12							321	13	
6/17/2004	14	17							859	57	
6/18/2004	16	6	7	1					706		
6/19/2004	6	8							14	17	
6/20/2004	8	19	2	1					395		
6/22/2004	10	15	3						176	2	11
6/23/2004	9	1	19	1					121	11	10
6/24/2004	6	12	12						90	1	
6/25/2004	12	18							56	9	
6/26/2004	10	17		4					51	3	
6/27/2004	10	18	1	2					45	9	1
6/28/2004	10	20							39		
6/29/2004	12	8							21		
7/8/2004	1	1	1						3	1	
7/9/2004	6	1							7		
7/11/2004	1								1		

Table F-25. Young-of-year Chinook salmon symptom and mortality observations at the Persido Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
7/13/2004	27	3							118	1	
7/14/2004	5	2							7		
7/15/2004	3								3		
7/16/2004	1								1		
7/17/2004	4								4		
7/19/2004	1	6							16	44	
Grand Total	526	274	56	9	4	5	0	0	6,885	392	29

Table F-26. Yearling Chinook salmon symptom and mortality observations at the Persido Bar trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/29/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
5/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/27/2004	1								1		
6/14/2004	1								1		
Grand Total	2	0	0	0	0	0	0	0	18	1	0

Table F-27. Young-of-year coho salmon symptom and mortality observations at the Persido Bar trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
5/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
5/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
5/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	6		
5/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
5/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
5/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
5/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
5/27/2004	2								2		
6/4/2004									1		
6/15/2004	1								1		
6/19/2004			1						1		
6/25/2004	1								2		
Grand Total	4	0	1	0	0	0	0	0	64	0	0

Table F-28. Yearling coho salmon symptom and mortality observations at the Persido Bar trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/18/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/2/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/24/2004	NA	NA	NA	NA	NA	NA	NA		1		
Grand Total	NA	NA	NA	NA	NA	NA	NA	0	3	0	0

Table F-29. Young-of-year steelhead symptom and mortality observations at the Persido Bar trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
5/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
5/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		
5/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
5/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	13		
5/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	21		
5/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	6		
5/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/27/2004	4								4		
5/29/2004	6								5		
5/30/2004									7		
5/31/2004									4		
6/2/2004										1	
6/3/2004									2		
6/4/2004									1		
6/5/2004	2								3		
6/6/2004	2								3		
6/7/2004	5								5		
6/8/2004	5								5		
6/9/2004	1								1		
6/10/2004	5								6		
6/11/2004	4								4		



Table F-29. Young-of-year steelhead symptom and mortality observations at the Persido Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
6/12/2004	6								6		
6/14/2004	6								8		
6/15/2004	1								3		
6/17/2004	1								2		
6/18/2004	1								1		
6/20/2004	2	1							3		
6/22/2004									2		
6/23/2004										1	
6/24/2004	1		1						2		
6/25/2004									4		
6/26/2004									2		
6/28/2004	1	2							3		
6/29/2004	3								4		
7/8/2004	1								1		
7/9/2004	1								1		
7/11/2004	2	1							3		
7/13/2004	1								7		
7/14/2004	2								2		
7/17/2004	5								5		
7/19/2004	23	3							26		
Grand Total	91	7	1	0	0	0	0	0	207	2	1

Table F-30. Steelhead yearling or older symptom and mortality observations at the Persido Bar trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/3/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
3/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
3/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
3/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
3/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
3/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
3/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
3/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
3/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/29/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
3/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
4/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		

Table F-30. Steelhead yearling or older symptom and mortality observations at the Persido Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/8/2004	NA	NA	NA	NA	NA	NA	NA		4		
4/9/2004	NA	NA	NA	NA	NA	NA	NA		6		
4/10/2004	NA	NA	NA	NA	NA	NA	NA		3		
4/11/2004	NA	NA	NA	NA	NA	NA	NA		4		
4/12/2004	NA	NA	NA	NA	NA	NA	NA		3		
4/13/2004	NA	NA	NA	NA	NA	NA	NA		2		
4/14/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/15/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/16/2004	NA	NA	NA	NA	NA	NA	NA		3		
4/17/2004	NA	NA	NA	NA	NA	NA	NA		3		
4/18/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/19/2004	NA	NA	NA	NA	NA	NA	NA		4		
4/20/2004	NA	NA	NA	NA	NA	NA	NA		2		
4/21/2004	NA	NA	NA	NA	NA	NA	NA		2		
4/24/2004	NA	NA	NA	NA	NA	NA	NA	1	3		
4/25/2004	NA	NA	NA	NA	NA	NA	NA		5		
4/26/2004	NA	NA	NA	NA	NA	NA	NA		2		
4/27/2004	NA	NA	NA	NA	NA	NA	NA	1	4		
4/28/2004	NA	NA	NA	NA	NA	NA	NA	1	3		
4/29/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/1/2004	NA	NA	NA	NA	NA	NA	NA	1	1		
5/2/2004	NA	NA	NA	NA	NA	NA	NA		2		
5/3/2004	NA	NA	NA	NA	NA	NA	NA		2		
5/7/2004	NA	NA	NA	NA	NA	NA	NA	1	2		
5/8/2004	NA	NA	NA	NA	NA	NA	NA		2		
5/9/2004	NA	NA	NA	NA	NA	NA	NA	1	2		
5/13/2004	NA	NA	NA	NA	NA	NA	NA		3	1	
5/14/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/17/2004	NA	NA	NA	NA	NA	NA	NA		2		

Table F-30. Steelhead yearling or older symptom and mortality observations at the Persido Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/18/2004	NA	NA	NA	NA	NA	NA	NA		2		
5/20/2004	NA	NA	NA	NA	NA	NA	NA		2		
5/21/2004	NA	NA	NA	NA	NA	NA	NA		6	3	
5/22/2004	NA	NA	NA	NA	NA	NA	NA		5		
5/24/2004	NA	NA	NA	NA	NA	NA	NA		5		
5/25/2004	NA	NA	NA	NA	NA	NA	NA		1		
5/26/2004	NA	NA	NA	NA	NA	NA	NA	2	9		
5/27/2004	4	1							5		
5/28/2004									3		
5/29/2004										4	
5/30/2004									1		
5/31/2004	2								2		
6/1/2004	5	1						4	6	1	
6/2/2004	3								3		
6/3/2004									5		
6/4/2004									6		1
6/5/2004									4		
6/6/2004									2		
6/8/2004	15								15		
6/9/2004	6								6	1	
6/10/2004	5							1	8		
6/11/2004	7								7		
6/12/2004	4								5		
6/13/2004	5								5		
6/14/2004	12								12		
6/15/2004	12								14	2	
6/16/2004	4								4	12	
6/17/2004	11								11		
6/18/2004	1		1						3		

Table F-30. Steelhead yearling or older symptom and mortality observations at the Persido Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
6/20/2004	1	4		1					6		
6/22/2004									5		
6/23/2004	2	1	1						4	3	
6/24/2004	2	2	2						6	3	
6/25/2004									1	6	
6/26/2004									1		
6/27/2004	2								2	3	
6/28/2004	1								1	2	
7/8/2004										1	
7/9/2004	1								1		
7/13/2004									3	1	
7/19/2004	1								1	2	
Grand Total	106	9	4	1	0	0	0	13	327	46	1

Table F-31. Young-of-year Chinook salmon symptom and mortality observations at the Big Bar trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	58		
3/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	29	7	
3/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	90		
3/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	30		1
3/29/2004	NA	NA	NA	NA	NA	NA	NA	NA	28		
3/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	30		
3/31/2004	NA	NA	NA	NA	NA	NA	NA	NA	36		
4/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	32		
4/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	24		
4/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	20		
4/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	26		
4/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	21		
4/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	29	2	
4/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	33		
4/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	143		1
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	250		1
4/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	78		
4/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	309	3	
4/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	254		
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	256	3	
4/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	275	3	
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	146		
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	163		
4/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	152		2
4/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	164		
4/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	229	3	
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	287		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	210	5	1
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	212	2	

Table F-31. Young-of-year Chinook salmon symptom and mortality observations at the Big Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	286		
4/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	247		
4/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	147		
4/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	95		
4/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	42		
4/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	22		
4/29/2004	NA	NA	NA	NA	NA	NA	NA	NA	23		
4/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
5/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	23		
5/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	10		
5/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
5/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
5/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
5/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	15		
5/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	25		
5/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	38		
5/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	21	1	1
5/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	20		
5/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	30		
5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	27	5	3
5/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	29	3	
5/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	24		
5/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	10		
5/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	39	3	2
5/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	82	3	
5/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	40	5	
5/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	57	3	
5/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	39	4	

Table F-31. Young-of-year Chinook salmon symptom and mortality observations at the Big Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/22/2004	NA	NA	NA	NA	NA	NA	NA		52	8	
5/23/2004	NA	NA	NA	NA	NA	NA	NA		43		
5/24/2004	32	11			1				50	15	1
5/25/2004	47	13							85	12	1
5/26/2004	53	6							70	10	
5/27/2004	53	7							97	7	
5/28/2004	22	3							83	5	2
6/1/2004	25	6	2						48	8	
6/2/2004	54	6							221	13	
6/3/2004	55	4	1						312	21	1
6/4/2004	58	5							535	44	
6/5/2004	57	3							712	29	
6/6/2004	49	12							592	32	
6/7/2004	47	13							1,470	37	
6/8/2004	36	7	5						196	136	
6/9/2004	50	11							273	13	
6/10/2004	34	8	4					1	246	17	
6/11/2004	45	11	4						393	39	3
6/12/2004	36	13	3						758	43	3
6/13/2004	49	10		2					860	80	
6/14/2004	47	16	3						1,006	90	
6/15/2004	50	10							1,339	141	
6/16/2004	41	19	1						1,610	182	
6/17/2004	46	13	1						2,115	55	
6/18/2004	43	16	1						2,759	259	2
6/19/2004	69	20	1						2,456	259	
6/22/2004	66	9	1						1,793	138	
6/23/2004	45	8	2						1,716	97	
6/24/2004	44	2		1					1,880	33	



Table F-31. Young-of-year Chinook salmon symptom and mortality observations at the Big Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
6/25/2004	38	8							905	13	
6/26/2004	30	1							855	25	
6/27/2004	34	6	2						561	36	1
6/29/2004	31	0							455	72	
6/30/2004	35	0							783	27	
7/1/2004	37	1							700	18	
7/2/2004	30	1							382	13	
7/3/2004	33	1							372	13	
7/4/2004	30								406	8	
7/5/2004	30								388	8	
7/6/2004	28								501	4	
7/7/2004	28	1		1					303	6	
7/8/2004	30								87	6	
7/9/2004	28	2							56	2	
7/10/2004	30								76	4	
7/11/2004	26	2	2						42	3	
7/12/2004	12	1		4					17	2	
7/13/2004	27	1	3						72	4	
7/14/2004	49	3	2						74	3	
7/15/2004	33								33	4	
7/16/2004	48	1	1						56		
7/17/2004	32	1							43	7	2
7/18/2004	25	1							27	0	
7/19/2004	16								16	1	
7/20/2004	26	2		1					29	1	
7/21/2004	22								22	6	
7/22/2004	23	3	1						27	2	
7/23/2004	22	3							26	1	
7/24/2004	13	1							14		

Table F-31. Young-of-year Chinook salmon symptom and mortality observations at the Big Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
7/25/2004									9	2	1
7/26/2004	12								12	1	
7/27/2004									2		
7/28/2004	3								3		
7/29/2004	3								3	1	
7/30/2004	2								3	1	
Grand Total	2,119	302	40	9	1	0	0	1	36,155	2,172	29

Table F-32. Yearling Chinook salmon symptom and mortality observations at the Big Bar trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/28/2004	NA	NA	NA	NA	NA	NA	NA		1		
3/31/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/18/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/22/2004	NA	NA	NA	NA	NA	NA	NA		1		
4/29/2004	NA	NA	NA	NA	NA	NA	NA			1	
Grand Total	NA	NA	NA	NA	NA	NA	NA	0	4	1	0

Table F-33. Young-of-year coho salmon symptom and mortality observations at the Big Bar trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/31/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	6		
4/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	6		
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	11		
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
4/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
4/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	11		
4/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
5/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
5/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
5/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	9		
5/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	10		

Table F-33. Young-of-year coho salmon symptom and mortality observations at the Big Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
5/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	9	1	
5/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	6		
5/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	2	1	
5/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	2	1	
5/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/24/2004	2								2		
5/25/2004	1								3		
5/26/2004	5								5		
5/27/2004	3								3		
5/28/2004	2								2		
6/1/2004	1								1		
6/3/2004	1								1		
6/4/2004	4								4		
6/6/2004	4								4		
6/7/2004	2								3		
6/8/2004	2								2		
6/9/2004	3								3		
6/10/2004	10								10		
6/11/2004	3								3		
6/12/2004	2								2		
6/13/2004	3								3		
6/14/2004	7								7		
6/15/2004	2								6	1	
6/17/2004	1								1		
6/18/2004	2								2		
6/19/2004	2								3		

Table F-33. Young-of-year coho salmon symptom and mortality observations at the Big Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
6/25/2004									1		
6/27/2004	1								1		
7/3/2004									2		
Grand Total	63	0	0	0	0	0	0	0	217	4	0

Table F-34. Yearling coho salmon symptom and mortality observations at the Big Bar trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/5/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
5/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	1	1	
5/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/18/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
5/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/25/2004		1							2		
5/26/2004	1								1		
5/28/2004	2								2		
6/1/2004	1								1		
Grand Total	4	1	0	0	0	0	0	0	19	3	0

Table F-35. Young-of-year steelhead symptom and mortality observations at the Big Bar trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/24/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
4/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	14		
4/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	19		
4/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	15		
4/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	10		
4/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	14		
5/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	5		
5/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	22		
5/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	17		
5/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	24		
5/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
5/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	32		
5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	89		2
5/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	94		
5/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	25		

Table F-35. Young-of-year steelhead symptom and mortality observations at the Big Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
5/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	51		
5/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	28	1	
5/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	80	1	
5/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	104		
5/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	77		
5/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	22	1	
5/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	102	3	
5/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	31		
5/24/2004									40		
5/25/2004									31		
5/26/2004	2								20	1	
5/27/2004									19		
5/28/2004									11		
6/1/2004	2								2		
6/2/2004	4								4		
6/3/2004	1								1		
6/4/2004									15	1	
6/5/2004	1								30		
6/6/2004	4								76		
6/7/2004									56	2	
6/8/2004	2								67		
6/9/2004	6								63	3	
6/10/2004	3								67		
6/11/2004	1								50		
6/12/2004	1								79		
6/13/2004	7								63	1	
6/14/2004									35	3	
6/15/2004	1								55	7	1
6/16/2004									18	10	

Table F-35. Young-of-year steelhead symptom and mortality observations at the Big Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
6/17/2004									48	3	
6/18/2004									39	14	
6/19/2004	26								53	1	
6/22/2004	3				3				33	7	
6/23/2004									30	4	
6/24/2004									28	2	
6/25/2004									32	1	
6/26/2004									14		
6/27/2004	1	1							8	2	
6/29/2004									36		
6/30/2004	12	1							17	7	1
7/1/2004									9	1	
7/2/2004									4	5	
7/3/2004									8	7	
7/4/2004									11	7	
7/5/2004									12	8	
7/6/2004		2							37	8	
7/7/2004									48	4	
7/8/2004									25	8	
7/9/2004			1						23	5	
7/10/2004									19	1	
7/11/2004									26	4	
7/12/2004									12	4	
7/13/2004									13	3	
7/14/2004									8	4	
7/15/2004									7	3	
7/16/2004									13		
7/17/2004									14	1	
7/18/2004									6		



Table F-35. Young-of-year steelhead symptom and mortality observations at the Big Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
7/19/2004									22		4
7/20/2004									23		
7/21/2004									11	2	
7/22/2004									16	1	
7/23/2004									24	2	
7/24/2004									9	1	
7/25/2004									11	2	
7/26/2004									10		
7/27/2004									16		
7/28/2004									13		
7/29/2004									13		
7/30/2004									2	3	
Grand Total	77	4	1	0	3	0	0	0	2,516	160	8

Table F-36. Yearling and older steelhead symptom and mortality observations at the Big Bar trap site.

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
3/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
3/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
3/29/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
3/31/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/9/2004	NA	NA	NA	NA	NA	NA	NA	NA	7		
4/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/11/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	10		
4/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	6		
4/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/18/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
4/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		
4/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/24/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
4/25/2004	NA	NA	NA	NA	NA	NA	NA	NA	3		
4/26/2004	NA	NA	NA	NA	NA	NA	NA	NA	8		

Table F-36. Yearling and older steelhead symptom and mortality observations at the Big Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
4/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	9		
4/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
4/29/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
4/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	5	1	
5/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/2/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
5/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	1	1	
5/4/2004	NA	NA	NA	NA	NA	NA	NA	NA		2	
5/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/6/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/8/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	1	1	
5/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/18/2004	NA	NA	NA	NA	NA	NA	NA	NA		1	
5/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	4		
5/21/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/22/2004	NA	NA	NA	NA	NA	NA	NA	NA	2		
5/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	1		
5/24/2004	2								2		
5/25/2004									5		
5/26/2004	3								4		
5/27/2004									2		
5/28/2004	2								2		
6/1/2004	3	1							4		
6/2/2004	4								4		

Table F-36. Yearling and older steelhead symptom and mortality observations at the Big Bar trap site (continued).

Date	From random biological sample and/or external exam. NA = no random sample.								From all capture		
	Red (normal) gill	Pale gill	Red gill with rot	Pale gill with rot	Swollen abdomen	Pop-eye	Hemorrhaging anal vent	Lamprey wound	Live	Before handling mortality	After handling mortality
6/3/2004	4								4		
6/4/2004	2								2		
6/5/2004	2								3		
6/9/2004	2								2		
6/10/2004	1								1		
6/11/2004									1		
6/12/2004	6								6		
6/13/2004									4		
6/14/2004	3								4		
6/16/2004		1							1		
6/17/2004	1								2		
6/19/2004	1								1		
6/22/2004	2								2		
6/24/2004	3								3		
6/25/2004									1		
6/26/2004	1								3		
6/27/2004									1		
6/30/2004	1	1							2		
7/1/2004	2								2		
7/2/2004									1		
7/6/2004									0	1	
7/7/2004	1								1		
7/8/2004									4		
7/10/2004									1	2	
7/16/2004									2		
7/29/2004										1	
Grand Total	46	3	0	0	0	0	0	0	213	11	0

Table F-37. Young-of-year coho salmon external symptom and mortality observations at Horse Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
3/19/2004						7	
3/22/2004					1	1	
3/24/2004						6	
3/25/2004					8	4	
3/26/2004					19	1	
3/27/2004					8	8	1
3/28/2004					4		
4/1/2004						2	
4/2/2004					1		
4/9/2004						1	
4/10/2004						2	
4/14/2004					6	4	
4/15/2004						3	
4/16/2004						20	
4/21/2004					17		
4/22/2004					5		
4/23/2004					6	1	
4/24/2004					4		
4/25/2004					2		
4/26/2004					2		
4/27/2004					1		
4/29/2004					3		
4/30/2004					9		1
5/1/2004					34		
5/2/2004					7		
5/3/2004					2		
5/4/2004					9		
5/5/2004					3		
5/6/2004					4		
5/7/2004					6	1	
5/8/2004					13		
5/9/2004					14		
5/10/2004					14	1	
5/11/2004					8		1
5/12/2004					17	2	
5/13/2004					18	1	
5/14/2004					12	2	
5/15/2004					7		
5/16/2004					5		
5/17/2004					23	1	
5/18/2004					5	2	
5/19/2004					9		
5/20/2004					20		
5/21/2004					4	3	
5/22/2004					16		

Table F-37. Young-of-year coho salmon external symptom and mortality observations at Horse Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
5/23/2004					9	1	
5/24/2004					20		
5/25/2004					9		
5/26/2004					11		
5/28/2004					1		
5/29/2004					11	1	
5/30/2004					18		
5/31/2004					17	1	
6/1/2004					6		
6/2/2004					11		
6/3/2004					8		
6/4/2004					3		
6/5/2004					3		
6/6/2004					3		
6/7/2004					11		
6/8/2004					10		
6/9/2004					14		
6/10/2004					3		
6/11/2004					12		
6/12/2004					8		
6/13/2004					10	1	
6/14/2004					22		
6/15/2004					11	1	
6/16/2004					9	1	
6/17/2004					9	1	
6/18/2004					4		
6/19/2004					12		
6/20/2004					17		
6/21/2004					12	1	
6/22/2004					36		
6/23/2004					18	2	
6/24/2004					10		
6/25/2004					10		
6/26/2004					7		
6/27/2004					7		
6/28/2004					4		
6/29/2004					2		
7/1/2004					2		
7/2/2004					5		
7/3/2004					9		
Grand Total	0	0	0	0	750	83	3

Table F-38. Yearling coho salmon external symptom and mortality observations at Horse Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
3/10/2004					1		
3/16/2004					5		
3/17/2004					3		
3/18/2004					2	1	
3/19/2004					2		
3/22/2004					4		
3/24/2004					2	2	
3/25/2004					4		
3/26/2004					2		
3/27/2004					5	1	
3/28/2004					2		
3/29/2004					3		
3/30/2004					3	2	
3/31/2004					1		
4/1/2004					5		
4/2/2004					2		
4/3/2004					1		
4/5/2004					1		
4/6/2004					1		
4/7/2004					2	1	
4/8/2004					2		
4/9/2004					1		
4/10/2004					4		
4/11/2004					2		
4/14/2004					3		
4/15/2004					1	1	
4/21/2004					1		
4/22/2004					2		
4/23/2004					3		
5/6/2004					2		
5/8/2004					1		
5/9/2004					2		
5/10/2004					2		
5/15/2004					1		
5/19/2004					1		
6/6/2004						1	
Grand Total	0	0	0	0	79	9	0

Table F-39. Young-of-year steelhead external symptom and mortality observations at Horse Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
5/1/2004					2		
5/2/2004					1		
5/3/2004					1		
5/4/2004					2		
5/5/2004					2		
5/6/2004					11		
5/7/2004					48	1	
5/8/2004					10		
5/9/2004					74		
5/10/2004					41		
5/11/2004					39	1	
5/12/2004					33	1	
5/13/2004					53		
5/14/2004					164	4	
5/15/2004					80	1	
5/16/2004					186	2	
5/17/2004					378	2	
5/18/2004					210	7	
5/19/2004					310	4	
5/20/2004					412		
5/21/2004					243	15	
5/22/2004					497	2	
5/23/2004					589	7	
5/24/2004					484	5	
5/25/2004					609	2	
5/26/2004					517	2	
5/28/2004					716	2	
5/29/2004					483	4	
5/30/2004					468	5	
5/31/2004					678	6	
6/1/2004					513	8	
6/2/2004					513	6	
6/3/2004					624	5	
6/4/2004					759	2	
6/5/2004					1,078	5	
6/6/2004					495	14	
6/7/2004					910	18	
6/8/2004					1,058	6	
6/9/2004					721	10	
6/10/2004					774		
6/11/2004					868		
6/12/2004					691		
6/13/2004					708	6	
6/14/2004					803		
6/15/2004					868		



Table F-39. Young-of-year steelhead external symptom and mortality observations at Horse Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
6/16/2004					863	4	
6/17/2004					542	12	
6/18/2004					644	5	
6/19/2004					512	2	
6/20/2004					779	4	
6/21/2004					578	5	
6/22/2004					655	2	
6/23/2004					423	4	
6/24/2004					580	2	
6/25/2004					610	2	
6/26/2004					387		
6/27/2004					399		
6/28/2004					234		
6/29/2004					272		
7/1/2004					232		
7/2/2004					161		
7/3/2004					373		
Grand Total	0	0	0	0	26,968	195	0

Table F-40. Yearling and older steelhead external symptom and mortality observations at Horse Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
2/26/2004					1		
3/10/2004					17		
3/11/2004					7		
3/12/2004					14		
3/16/2004					25		
3/17/2004					49	3	
3/18/2004					34		
3/19/2004					36	8	
3/22/2004					41		
3/24/2004					24	8	
3/25/2004					24		
3/26/2004					20		
3/27/2004					22		
3/28/2004					26	1	
3/29/2004					31		
3/30/2004					75	12	
3/31/2004					20	6	
4/1/2004					29		
4/2/2004	0	0	0	0	12	0	0

Table F-40. Yearling and older steelhead external symptom and mortality observations at Horse Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
4/3/2004					12		
4/4/2004					33		
4/5/2004					24		
4/6/2004					33		
4/7/2004					37		
4/8/2004					50		
4/9/2004					48		
4/10/2004					47		
4/11/2004					18		
4/12/2004					51		
4/13/2004					33		
4/14/2004					24		
4/15/2004					30		
4/16/2004					31		
4/21/2004					10		
4/22/2004					12		
4/23/2004					9		
4/24/2004					12		
4/25/2004					23		
4/26/2004					39		
4/27/2004					19		
4/28/2004					20		
4/29/2004					9		
4/30/2004					11		
5/1/2004					3		
5/2/2004					9		
5/3/2004					11		
5/4/2004					10		
5/5/2004					5	1	
5/6/2004					9		
5/7/2004					9		
5/8/2004					21		
5/9/2004					14		
5/10/2004					12		
5/11/2004					22		
5/12/2004					10		
5/13/2004					22		
5/14/2004					12		
5/15/2004					19		
5/16/2004					21		
5/17/2004					21		
5/18/2004					12		
5/19/2004					13		
5/20/2004					13		
5/21/2004					9	1	

Table F-40. Yearling and older steelhead external symptom and mortality observations at Horse Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
5/22/2004					11	6	
5/23/2004					8		
5/24/2004					15		
5/25/2004					2		
5/26/2004					7		
5/28/2004					4		
5/29/2004					12		
5/30/2004					20		
5/31/2004					11	1	
6/1/2004					6		
6/2/2004					14		
6/3/2004					5		
6/4/2004					5		
6/5/2004					3		
6/6/2004					5	2	
6/7/2004					1		
6/8/2004					7		
6/9/2004					12		
6/10/2004					2		
6/11/2004					2		
6/13/2004					3		
6/14/2004					2		
6/15/2004					2		
6/16/2004					1		
6/21/2004					1		
6/27/2004					1		
Grand Total	0	0	0	0	1,581	53	0

Table F-41. Young-of-year Chinook salmon external symptom and mortality observations at Seiad Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
4/3/2004					1		
4/5/2004					1		
4/8/2004					1		
4/9/2004					1		
4/14/2004					2		
4/16/2004					2		
4/25/2004					1		
4/26/2004					1		
4/30/2004					4		
5/3/2004					2		
5/4/2004					1		
5/6/2004					1		
5/7/2004					3		
5/8/2004					4		
5/10/2004					1		
5/11/2004					1		
5/12/2004					1		
5/13/2004					1		
5/16/2004					1		
5/17/2004					1		
6/19/2004					0	1	
6/30/2004					1		
<b>Grand Total</b>	0	0	0	0	32	1	0

Table F-42. Young-of-year coho salmon external symptom and mortality observations at Seiad Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
4/3/2004						1	
4/9/2004					2		
4/13/2004					1		
4/14/2004					1		
4/16/2004					1		
4/17/2004					3		
4/24/2004					0	1	
4/25/2004					1	1	
4/26/2004					1		
4/27/2004					1		
4/28/2004					1		
4/29/2004					2	2	
4/30/2004					7		
5/1/2004					4		
5/2/2004					3		
5/3/2004					3		
5/4/2004					1		
5/5/2004					1		
5/6/2004					4		
5/7/2004					9	1	
5/8/2004					13		
5/9/2004					11	1	
5/10/2004					4		
5/11/2004					9		
5/12/2004					6	1	
5/13/2004					16	1	
5/14/2004					4		
5/15/2004					8		
5/16/2004					7		
5/17/2004						2	
5/18/2004					1		
5/19/2004					2		
5/20/2004					6		
5/21/2004					2		
5/22/2004					2		
5/23/2004					4		
5/24/2004					1		
5/27/2004					1		
5/29/2004					2		
5/30/2004					1		
5/31/2004					2		
6/1/2004					3		
6/2/2004					4		
6/3/2004					19		
6/4/2004					8		

Table F-42. Young-of-year coho salmon external symptom and mortality observations at Seiad Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
6/5/2004					2		
6/6/2004					12		
6/7/2004					3		
6/8/2004					1		
6/9/2004					2		
6/16/2004					9	1	
6/17/2004					15	2	
6/18/2004					29	6	
6/19/2004					15	3	
6/20/2004					14		
6/21/2004					39	2	
6/22/2004					12		
6/23/2004					1		
6/24/2004					2		
6/25/2004					2		
6/26/2004					6	3	
6/27/2004					11		
6/28/2004					6		
6/29/2004					9		
6/30/2004					10		
7/1/2004					4		
7/2/2004					2		
<b>Grand Total</b>	0	0	0	0	388	28	0

Table F-43. Yearling coho salmon external symptom and mortality observations at Seiad Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
3/17/2004					8		
3/18/2004					16		
3/28/2004					9		
3/29/2004					2		
4/2/2004					1		
4/20/2004					1		
4/21/2004					2		
4/22/2004					2		
4/23/2004					3	1	
4/25/2004					3	1	
4/26/2004					7		
4/27/2004					2	1	
5/5/2004					1		
5/7/2004					1		
5/9/2004					1		
5/15/2004							1
5/18/2004					1		
5/19/2004				1	0	1	
Grand Total	0	0	0	1	60	4	1

Table F-44. Young-of-year steelhead external symptom and mortality observations at Seiad Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
4/21/2004					1		
4/25/2004						5	
4/30/2004					3		
5/2/2004					2		
5/4/2004					1		
5/5/2004					2		
5/6/2004					21	1	
5/7/2004					17	12	
5/8/2004					41	13	
5/9/2004					8	8	
5/10/2004					35	11	
5/11/2004					232		
5/12/2004					82	138	
5/13/2004					173	33	
5/14/2004					90	8	
5/15/2004					313	74	
5/16/2004					211	51	
5/17/2004					215	89	
5/18/2004					209	1	
5/19/2004					221	3	
5/20/2004					263	6	
5/21/2004					231		
5/22/2004					278	1	
5/23/2004					171	1	
5/24/2004					142	4	
5/25/2004					67		
5/26/2004					105	2	
5/27/2004					102		
5/28/2004					58	1	
5/29/2004					64		
5/30/2004					35		
5/31/2004					25		
6/1/2004					22		
6/2/2004					32		
6/3/2004					24		
6/4/2004					28		
6/5/2004					23	1	
6/6/2004					78		
6/7/2004					58	2	
6/8/2004					63		
6/9/2004					41		
6/10/2004					30		
6/11/2004					32		
6/12/2004					20		
6/13/2004					14		



Table F-44. Young-of-year steelhead external symptom and mortality observations at Seiad Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
6/14/2004					4		
6/15/2004					14		
6/16/2004					102	1	
6/17/2004					188	1	
6/18/2004					237	17	
6/19/2004					249	37	
6/20/2004					389	1	
6/21/2004					534	9	
6/22/2004					89	2	
6/23/2004					136		
6/24/2004					165		
6/25/2004					50		1
6/26/2004					420		
6/27/2004					145		
6/28/2004					124		
6/29/2004					112	1	
6/30/2004					65		
7/1/2004					135		
7/2/2004					13		
7/3/2004					25		
Grand Total	0	0	0	0	7,079	534	1

Table F-45. Yearling and older steelhead external symptom and mortality observations at Seiad Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
3/3/2004					1		
3/9/2004					1		
3/17/2004					56		
3/18/2004					59		
3/24/2004					7		
3/25/2004					1		
3/26/2004					4		
3/28/2004					15		
3/29/2004					18		
3/30/2004					4		
3/31/2004					2		
4/1/2004					3		
4/2/2004					2		
4/3/2004					1		
4/4/2004					1		
4/5/2004					2		

Table F-45. Yearling and older steelhead external symptom and mortality observations at Seiad Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
4/7/2004					1		
4/8/2004					1		
4/11/2004					19		
4/12/2004					14		
4/13/2004					15	4	
4/14/2004					7		
4/15/2004					5	1	
4/16/2004					2		
4/17/2004					9		
4/20/2004					21		
4/21/2004					41	1	
4/22/2004					16		
4/23/2004					19	1	
4/24/2004					20		
4/25/2004					26	3	
4/26/2004					47	12	
4/27/2004					20	7	
4/28/2004					2		
4/29/2004					3		
4/30/2004					8		
5/1/2004					2		
5/2/2004					6		
5/3/2004					6	1	
5/4/2004					3		
5/5/2004					5		
5/6/2004					2		
5/7/2004					6		
5/8/2004					8		
5/9/2004					11		
5/10/2004					5		
5/11/2004					7		
5/12/2004					5		
5/13/2004					5		
5/14/2004					4		
5/15/2004					3		
5/16/2004					10		
5/17/2004					3		
5/18/2004					5		
5/20/2004					5		
5/21/2004					1		
5/22/2004					2		
5/23/2004					1		
5/26/2004					1		
5/27/2004					2		
5/28/2004					2		

Table F-45. Yearling and older steelhead external symptom and mortality observations at Seiad Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
5/30/2004					2		
5/31/2004					2		
6/1/2004					1	1	
6/16/2004				1		3	
6/17/2004						1	
6/19/2004					1		
6/20/2004				2	1	2	
6/23/2004				1		3	
6/24/2004				2	1	1	
6/25/2004						1	
6/26/2004	1	1		3	2	2	
6/27/2004				3		5	
6/28/2004				1	1	2	
6/29/2004				5	3	3	
6/30/2004				1	2	1	
7/1/2004						1	
7/2/2004						1	
7/3/2004				1	1	1	
Grand Total	1	1	0	21	600	58	0

Table F-46. Young-of-year Chinook salmon external symptom and mortality observations at Elk Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
3/31/2004					65		
4/1/2004					65		
4/2/2004					49		
4/3/2004					41		
4/4/2004					70		
4/5/2004					80		
4/6/2004					80		
4/7/2004					121		
4/8/2004					91		
4/9/2004					48		
4/10/2004					83		
4/11/2004					103		
4/12/2004					94		
4/13/2004					75		
4/14/2004					74		
4/15/2004					52		
4/16/2004					57		
4/17/2004					44		
4/18/2004					37		
4/19/2004					30		
4/20/2004					33		
4/21/2004					45		
4/22/2004					30	1	
4/23/2004					61		
4/24/2004					39		
4/25/2004					64		
4/26/2004					4	23	
4/27/2004					235	5	
4/28/2004					73	15	
4/29/2004					91		
5/3/2004					31	1	
5/4/2004					27	2	
5/5/2004					24		
5/6/2004					33		
5/7/2004					27		
5/8/2004					26		
5/10/2004					17		
5/11/2004					9		
5/12/2004					14		
5/13/2004					18		
5/14/2004					22		
5/15/2004					17		
5/16/2004					25		
5/17/2004					14	1	
5/18/2004					20		

Table F-46. Young-of-year Chinook salmon external symptom and mortality observations at Elk Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
5/19/2004					21		
5/20/2004					18		
5/21/2004					9		
5/22/2004					7		
5/23/2004					269		
5/24/2004					193		
5/25/2004					10		
5/26/2004					5		
5/27/2004					7		
5/28/2004					7		
5/29/2004					13		
5/30/2004					13		
5/31/2004					8		
6/1/2004					5		
6/2/2004					11		
6/3/2004					17		
6/4/2004					16		
6/5/2004					12		
6/6/2004					54		
6/7/2004					50		
6/8/2004					50		
6/9/2004					45		
6/10/2004					27		
6/11/2004					23		
6/12/2004					38		
6/13/2004					22		
6/14/2004					25		
6/15/2004					11		
6/16/2004					8		
6/17/2004					5		
6/18/2004					9	1	
6/19/2004					4		
6/20/2004					19		
6/21/2004					7		
6/22/2004					8		
6/23/2004					1		
6/24/2004					4		
6/26/2004					2		
6/27/2004					2		
6/29/2004					3		
6/30/2004					6		
7/1/2004					6		
7/3/2004					4		
7/8/2004					8		
7/9/2004					4		

Table F-46. Young-of-year Chinook salmon external symptom and mortality observations at Elk Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
7/10/2004					5		
7/11/2004					13		
7/12/2004					3		
7/13/2004					1		
7/14/2004					2	1	
7/15/2004					5		
7/17/2004					1		
7/18/2004					2		
7/19/2004					1		
7/20/2004					1	1	
Grand Total	0	0	0	0	3,478	51	0

Table F-47. Young-of-year coho salmon external symptom and mortality observations at Elk Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
4/8/2004					3		
4/9/2004					10		
4/10/2004					11		
4/11/2004					12		
4/12/2004					2		
4/13/2004					1		
4/14/2004					1		
4/15/2004					3		
4/16/2004					1		
4/17/2004					1		
4/19/2004					1		
4/20/2004					1		
4/21/2004					6		
4/22/2004					4		
4/23/2004					1		
4/24/2004					9	2	
4/25/2004					14	1	
4/27/2004					18	1	
4/28/2004					4	1	
4/29/2004					9		
5/3/2004					1		
5/5/2004					1		
5/6/2004					1		
5/8/2004					1		
5/11/2004					2		
5/12/2004					1		

Table F-47. Young-of-year coho salmon external symptom and mortality observations at Elk Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
5/13/2004					1		
5/16/2004					1		
5/25/2004					1		
6/1/2004					1		
6/2/2004					1		
6/7/2004					2		
6/8/2004					1		
6/9/2004					5		
6/10/2004					1		
6/11/2004					2		
6/15/2004					1		
6/17/2004					1		
6/22/2004					1		
6/29/2004						1	
7/1/2004					2		
7/2/2004					2		
7/3/2004					3		
7/8/2004					1		
7/13/2004					1	1	
7/14/2004					5		
7/15/2004					2		
7/20/2004					0	1	
7/21/2004					0	1	
Grand Total	0	0	0	0	154	9	0

Table F-48. Yearling coho salmon external symptom observations at Elk Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
4/10/2004					1		
5/3/2004					1		
Grand Total	0	0	0	0	2	0	0

Table F-49. Young-of-year steelhead external symptom and mortality observations at Elk Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
4/10/2004					1		
4/14/2004					3		
4/15/2004					1		
4/24/2004					1		
4/25/2004					1		
5/4/2004					1		
5/5/2004					1		
5/6/2004					3		
5/7/2004					2		
5/11/2004					6		
5/12/2004					23		
5/13/2004					22		
5/14/2004					20		
5/15/2004					14		
5/16/2004					97		
5/17/2004					75		
5/18/2004					63		
5/19/2004					145		
5/20/2004					124		
5/21/2004					210		
5/22/2004					376		
5/23/2004					27		
5/24/2004					260		
5/25/2004					276		
5/26/2004					330		
5/27/2004					254		
5/28/2004					206		
5/29/2004					63		
5/30/2004					205		
5/31/2004					160	1	
6/1/2004					135	1	
6/2/2004					217		
6/3/2004					205		
6/4/2004					118		
6/5/2004					89		
6/6/2004					168		
6/7/2004					171		
6/8/2004					164		
6/9/2004					144		
6/10/2004					157		
6/11/2004					144	2	
6/12/2004					97		
6/13/2004					140		
6/14/2004					87		
6/15/2004					83		



Table F-49. Young-of-year steelhead external symptom and mortality observations at Elk Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
6/16/2004					93		
6/17/2004					65		
6/18/2004					55	1	
6/19/2004					32		
6/20/2004					24		
6/21/2004					27		
6/22/2004					24		
6/23/2004					26		
6/24/2004					29	1	
6/25/2004					23		
6/26/2004					48		
6/27/2004					19		
6/28/2004					17		
6/29/2004					30		
6/30/2004					31		
7/1/2004					51		
7/2/2004					11		
7/3/2004					10		
7/7/2004					24		
7/8/2004					56		
7/9/2004					42		
7/10/2004					72		
7/11/2004					64		
7/12/2004					40		
7/13/2004					33	3	
7/14/2004					1		
7/15/2004					15		
7/16/2004					4		
7/17/2004					10		
7/18/2004					10		
7/19/2004					11		
7/20/2004					9	1	
7/21/2004					7		
7/22/2004					18	1	
7/23/2004					30		
7/24/2004					12		
7/25/2004					12		
Grand Total	0	0	0	0	6,174	11	0

Table F-50. Yearling and older steelhead external symptom and mortality observations at Elk Creek.

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
3/31/2004					4		
4/1/2004					1		
4/3/2004					4		
4/4/2004					5		
4/5/2004					12		
4/6/2004					4		
4/7/2004					4		
4/8/2004					2		
4/9/2004					5		
4/10/2004					13		
4/11/2004					7		
4/12/2004					6		
4/13/2004					10		
4/14/2004					4		
4/15/2004					2		
4/16/2004					2		
4/17/2004					2		
4/20/2004					1		
4/21/2004					1		
4/22/2004					2	1	
4/23/2004					6		
4/24/2004					5		
4/25/2004					7		
4/27/2004					23		
4/28/2004					10	1	
4/29/2004					6		
5/3/2004					5		
5/4/2004					7		
5/5/2004					2		
5/6/2004					3		
5/7/2004					3		
5/8/2004					2		
5/10/2004					1		
5/11/2004					1		
5/13/2004					1		
5/14/2004					6		
5/15/2004					3		
5/16/2004					3		
5/17/2004					2		
5/18/2004					3		
5/19/2004					4		
5/20/2004					1		
5/21/2004					2		
5/23/2004					3		
5/24/2004					1		

Table F-50. Yearling and older steelhead external symptom and mortality observations at Elk Creek (continued).

Date	From biological sample				From all capture		
	Pale gill	Pale gill with rot	Swollen abdomen	Lamprey wound	Live	Before handling mortality	After handling mortality
5/25/2004					1		
5/27/2004					1		
5/31/2004					1		
6/1/2004					3		
6/7/2004					1		
6/11/2004					1		
6/23/2004					1		
7/3/2004					2		
7/7/2004	1				1	1	
7/13/2004					2		
7/16/2004						1	
7/18/2004	1		1		1		
7/19/2004					1		
7/21/2004					1		
7/23/2004	1				2		
<b>Grand Total</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>220</b>	<b>4</b>	<b>0</b>

**Appendix G. Other species captured**

Table G-1. Capture of other species by trap site.

Scientific Name	Common Name/description	Bogus	I-5	Kinsman	Happy Camp	Persido Bar	Big Bar	Elk Creek	Horse Creek	Seiad Creek
<i>Acipenser medirostris</i>	Green Sturgeon						726			
<i>Alosa sapidissima</i>	American Shad						3			
<i>Ameirus spp.</i>	Bullhead	17	24	348	396	38	69	1		12
<i>Catostomus spp.</i>	Sucker spp.	16	1	434	673	330	1,024	33	1	34
<i>Cottus aleuticus</i>	Coastrange Sculpin		1	9		1	6			1
<i>Cottus asper</i>	Prickly Sculpin	1	13	11	68	11	7	34		1
<i>Cottus klamathensis</i>	Marbled Sculpin	27	8	26	1	4	13	1		19
<i>Entosphenus tridentata</i>	Pacific lamprey (adult lamprey >300 mm)	10	17	21	141	26	15	1	31	91
<i>Gasterosteus aculeatus</i>	Threespine Stickleback									4
Lamprey spp.	Ammocoetes of unknown species	75	12	376	1,118	454	2,158	529	405	336
Lamprey spp.	Eyed lampreys <300 mm (could be Pacific lamprey macropthalmia, or adults of some other species)	84	113	863	545	260	319	23	95	45
<i>Lepomis cyanellus</i>	Green Sunfish	4	6	5	2	3	4			
<i>Lepomis gibbosus</i>	Pumpkinseed	441	16	11						
<i>Lepomis macrochirus</i>	Bluegill	18	2	2	3					

Table G-1. Capture of other species by trap site (continued).

Scientific Name	Common Name/description	Bogus	I-5	Kinsman	Happy Camp	Persido Bar	Big Bar	Elk Creek	Horse Creek	Seiad Creek
<i>Leuciscus cephalus</i>	Chub			1						
<i>Micropterus salmoides</i>	Largemouth Bass	11		1		1				
<i>Notemigonus crysoleucas</i>	Golden Shiner	59	27	22	13	3	11			1
<i>Oncorhynchus keta</i>	Chum Salmon			1						
<i>Oncorhynchus nerka</i>	Sockeye Salmon				1					
<i>Oncorhynchus spp</i>	Unidentified Trout	4	1							
<i>Perca flavescens</i>	Yellow Perch	1,017	7	3		2				
<i>Pimphales promelas</i>	Fathead Minnow		31	3	1					
<i>Pomoxis spp.</i>	Crappie	334	7	2	2	1	1			
<i>Rhinichthys osculus</i>	Speckled Dace	96	21	237	1,171	1,204	574	202		513
<i>Salmo trutta</i>	Brown Trout						2			