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ANNUAL REPORT
WARM SPRINGS SALMON AND STEELHEAD HATCHERY
1984-85

by

Donald F. Estey
Region 3, Inland Fisheries

Anadromous Fisheries Branch
Administrative Report No. 86-03

1986

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ABSTRACT

This report describes the operation of Warm Springs Salmon and Steelhead Hatchery from July 1, 1984, through June 30, 1985. Tables present daily records of water temperatures, weather conditions, daily numbers of salmon and steelhead entering the hatchery and total number of salmonids reared and released.

Eight chinook salmon, *Oncorhynchus tshawytscha*, 76 coho salmon, *Oncorhynchus kisutch*, and 837 steelhead, *Salmo gairdneri* were trapped at the hatchery this season. There were 211,510 advanced fingerling chinook, 249,028 fingerling coho and 67,670 advanced fingerling coho salmon planted. Also planted or transferred were 608,680 fingerling and 155,305 yearling steelhead.

^{1/}Anadromous Fisheries Branch Administrative Report No. 86-03
Submitted August 1985

INTRODUCTION

This is the fifth annual report for operation of the Warm Springs Salmon and Steelhead Hatchery. It describes operation of the hatchery from July 1, 1984, through July 30, 1985. Copies of previous annual reports are available upon request from the Anadromous Fisheries Branch, Rancho Cordova.

Warm Springs Hatchery is located on Dry Creek, 14 miles upstream from its confluence with the Russian River, 2 miles south of Healdsburg, Sonoma County. The hatchery was constructed by the Department of the Army, Corps of Engineers, to compensate for spawning and nursery areas blocked by the Warm Springs Dam - Lake Sonoma Project. The Department of Fish and Game, under agreement with the Department of the Army, operates the fish hatchery and related facilities.

This report summarizes the number of fish trapped and spawned, production of eggs and fish, and water and weather conditions from July 1, 1984, through June 30, 1985.

PRODUCTION SUMMARY

The ladder was opened October 18, 1984. The flows in Dry Creek were 25 cfs until November 7, 1984, when they were increased to 100 cfs for a few days, then reduced to 75 cfs, where they remained for most of the season. Eight chinook salmon, 76 coho salmon, and 837 steelhead were trapped; 155,305 yearlings and 1,145,006 fingerlings were planted or transferred during the 1984-85 season (Table 1 and Appendix Table 1).

All fish were started on Bio-Diet and then fed Oregon Moist Pellets (OMP). A total of 50,420 lb of fish was produced using 63,634 lb of feed, giving a conversion rate (pounds of feed to produce 1 lb of fish) of 1.3.

DISEASE

Minor outbreaks of Columnaris occurred when water temperatures reached the high 60's F. They were controlled with the use of Terramycin.

CHINOOK SALMON PROGRAM

History of the 1984-85 Season

There were eight chinook salmon trapped at the hatchery this season; seven adult males and one adult female. Flows in Dry Creek were held at 25 cfs during October and part of November. On November 7, 1984, flows were increased to 100 cfs for a few days and then reduced to 75 cfs for the remainder of the season. The one female spawned at the hatchery produced 4,000 eggs; an additional 238,000 Wisconsin strain eggs were received from Silverado Fisheries Base. These eggs produced 211,510 fish which were released in Dry Creek and the Russian River (Table 2).

TABLE 1. Warm Springs Hatchery Production Summary

Species	Adults trapped	Females spawned	Eggs taken or received	Eggs transferred	Fingerlings transferred or planted	Yearlings planted	Total pounds released
Chinook salmon 1984 BY	8	1	242,000		211,510		4,697
Coho salmon 1984 BY	76	240*	544,700	40,040	316,698		2,698
Steelhead 1984 BY						155,305	42,360
1985 BY	837	315	1,568,900	334,800	608,680		665
Totals	921	556	2,355,600	374,840	1,136,888	155,305	50,420

*includes Noyo River fish.

TABLE 2. Chinook Salmon Plants, 1984-85

Date	Strain	Release site	Average size(lb)	Number
7-26-84	Hollow Tree	Russian River (Jenner)	25	10,300
5-14-85	Wisconsin	Dry Creek (Hatchery)	46	53,360
5-15-85	Wisconsin	Russian River (Monte Rio)	46	49,450
5-15-85	Dry Creek and Wisconsin	Dry Creek (Hatchery)	48	98,400

Total fingerlings *211,510*

COHO SALMON PROGRAM

History of the 1984-85 Season

There were 76 coho salmon trapped at the hatchery this season, 32 adult males and 44 adult females. The 42 females spawned produced 101,300 eggs. Three hundred and eighty adult fish were trucked in from the Noyo River fish trap (140 males and 240 females). The 198 females spawned produced 443,400 eggs. A total of 40,040 Noyo source eyed eggs were shipped to the Lagunitas Creek Rearing Program.

A total of 316,698 fingerlings was transferred or planted from the hatchery (Table 3). Two groups of 40,000 were marked and are being held for later release.

TABLE 3. Coho Salmon Plants, 1984-85

Date	Strain	Release site	Average size(lb)	Number	Mark
5-07-85	Noyo	Noyo River	110	30,800	—
5-08-85	Noyo	Noyo River	110	30,800	—
5-09-85	Noyo	South Fork Garcia River	140	50,400	—
5-14-85	Noyo	Mad River Hatchery	193	115,028	—
5-15-85	Noyo	Monterey Bay Rearing Pond	128	22,000	—
6-10-85	Dry Creek	Dry Creek	67	25,927	—
6-10-85	Dry Creek	Dry Creek	67	41,743	AD-CWT 06-51-01 06-51-02

Total fingerlings 316,698

STEELHEAD TROUT PROGRAM

History of the 1984-85 Season

The first steelhead entered the trap on November 19, 1984, and the last on April 5, 1985. A total of 837 fish was trapped: 369 males and 468 females. The 315 females spawned produced 1,568,900 eggs, an average of 4,980 eggs per female. All surplus adult fish were trucked to the Russian River and released above the mouth of Dry Creek.

In order to extend the length of the spawning period, surplus eggs were taken from late run fish. Some surplus eggs were shipped to other installations and surplus fingerlings were planted in local waters or transferred to rearing pond programs. A total of 155,305 steelhead yearlings was released into the Russian River and Dry Creek (Table 4).

TABLE 4. Steelhead Trout Plants, 1984-85

Date	Strain	Release site	Average size(lb)	Number
10-22-84	Dry Creek	Russian River Mouth of Dry Creek)	3.6	10,620
12-11-84	Dry Creek	Dry Creek (Hatchery)	3.6	12,870
12-12-84	Dry Creek	Dry Creek (Hatchery)	4.0	14,640
12-13-84	Dry Creek	Dry Creek (Hatchery)	4.1	15,170
12-14-84	Dry Creek	Dry Creek (Hatchery)	3.5	12,425
02-15-85	Dry Creek	Dry Creek (Hatchery)	3.7	28,860
02-20-85	Dry Creek	Dry Creek (Hatchery)	3.6	28,170
03-14-85	Dry Creek	Russian River (Jenner)	3.5	12,950
03-14-85	Dry Creek	Russian River (Monte Rio)	3.5	13,125
03-15-85	Dry Creek	Dry Creek (Above Lake Sonoma)	3.5	3,500
03-29-85	Dry Creek	Dry Creek (Above Lake Sonoma)	3.5	2,975
Total yearlings				155,305
04-23-85	Dry Creek	Warm Springs Creek (Above Lake Sonoma)	696	128,760
04-30-85	Dry Creek	Dry Creek (Below Hatchery)	1,600	206,400
05-06-85	Dry Creek	Dry Creek (Below Hatchery)	1,500	93,000
05-13-85	Dry Creek	Lake Sonoma	1,260	123,480
06-24-85	Dry Creek	Feliz Creek	360	15,120
06-27-85	Dry Creek	Warm Springs Creek	320	24,000
06-28-85	Dry Creek	Lake Sonoma	320	17,920
Total fingerlings				608,680

PUBLIC RELATIONS

All visitors to the hatchery must enter through the Visitor Center where actual counts are recorded. During the 1984-85 season, 202,033 people visited the Hatchery (Table 5). This is a 48% increase over the previous report period.

TABLE 5. Warm Springs Hatchery Monthly Visitation Data, 1984-85 FY

<u>Month</u>	<u>Number of visitors</u>
July	15,330
August	14,469
September	10,525
October	9,027
November	11,344
December	13,342
January	24,910
February	18,200
March	19,443
April	17,958
May	27,055
June	20,430
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Total	202,033

APPENDIX TABLE 1. Warm Springs Salmon and Steelhead Hatchery Temperature,
Weather, and Trapping Data July 1, 1984, through June 30, 1985

July	Temperature (°F)				Weather	Fish trapped				
	Water		Air			Chinook salmon		Coho salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	63	63	98	57	Clear					
2	63	63	104	61	Clear					
3	63	63	106	55	Clear					
4	63	63	98	53	Clear					
5	63	63	95	54	Overcast					
6	63	63	93	52	Clear					
7	64	64	92	48	Clear					
8	64	64	94	46	Clear					
9	65	64	94	50	Clear					
10	65	65	95	49	Clear					
11	65	65	97	49	Clear					
12	65	65	101	52	Clear					
13	65	65	104	65	Clear					
14	65	65	104	58	Clear					
15	65	65	104	62	Overcast					
16	65	65	98	60	Overcast					
17	65	65	97	61	Overcast					
18	65	65	95	58	Overcast					
19	65	65	89	57	Overcast					
20	65	65	87	57	Overcast					
21	65	65	88	52	Overcast					
22	65	65	81	50	Overcast					
23	65	65	70	55	Overcast					
24	65	65	82	51	Overcast					
25	65	65	80	50	Clear					
26	65	65	87	50	Clear					
27	65	65	97	47	Clear					
28	65	65	94	48	Clear					
29	65	65	88	49	Foggy					
30	65	65	91	48	Clear					
31	65	65	96	49	Foggy					

APPENDIX TABLE 1 (Continued)

August	Temperature (°F)				Weather	Fish trapped				Steelhead trout
	Water		Air			Chinook salmon		Coho salmon		
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	65	65	89	49	Foggy					
2	65	65	90	47	Clear					
3	65	65	87	49	Clear					
4	65	65	92	60	Clear					
5	66	65	96	50	Clear					
6	66	66	91	49	Clear					
7	66	66	96	51	Clear					
8	66	66	104	58	Clear					
9	66	66	105	50	Clear					
10	67	66	103	52	Overcast					
11	67	66	89	52	Foggy					
12	67	67	84	47	Clear					
13	67	67	94	48	Clear					
14	67	67	91	48	Clear					
15	67	67	92	47	Clear					
16	67	67	88	47	Foggy					
17	67	67	93	52	Clear					
18	67	67	100	56	Clear					
19	67	67	99	49	Clear					
20	68	67	90	61	Foggy					
21	68	67	85	52	Foggy					
22	68	67	82	49	Foggy					
23	68	67	89	50	Foggy					
24	67	67	89	50	Foggy					
25	67	67	83	52	Overcast					
26	67	67	77	49	Clear					
27	67	67	84	49	Clear					
28	67	67	90	49	Clear					
29	67	67	92	50	Foggy					
30	67	67	93	56	Clear					
31	67	67	73	56	Clear					

APPENDIX TABLE 1 (Continued)

September	Temperature (°F)				Weather	Fish trapped				
	Water		Air			Chinook salmon		Coho salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	68	68	90	56	Clear					
2	68	68	98	54	Clear					
3	69	68	98	46	Clear					
4	69	68	94	46	Clear					
5	70	68	98	49	Clear					
6	70	68	95	48	Clear					
7	70	68	90	61	Clear					
8	70	68	100	63	Clear					
9	70	68	105	63	Clear					
10	70	68	104	52	Clear					
11	70	68	89	44	Clear					
12	70	68	88	44	Clear					
13	70	68	90	47	Clear					
14	70	68	96	48	Clear					
15	70	68	95	50	Foggy					
16	70	68	93	50	Clear					
17	70	68	101	50	Clear					
18	70	68	104	62	Clear					
19	70	68	105	66	Overcast					
20	70	68	92	59	Overcast					
21	70	68	80	59	Clear					
22	70	68	90	50	Clear					
23	70	68	90	55	Overcast					
24	69	68	82	50	Clear					
25	69	68	85	45	Clear					
26	69	68	90	46	Clear					
27	69	68	92	48	Clear					
28	69	68	94	52	Clear					
29	69	68	91	46	Clear					
30	69	68	85	49	Overcast					

APPENDIX TABLE 1 (Continued)

October	Temperature (°F)				Weather	Fish trapped				Steelhead trout	
	Water		Air			Chinook salmon	Coho salmon		Adults		Grilse
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults			
1	68	67	71	50	Clear						
2	68	67	84	45	Clear						
3	68	67	83	45	Clear						
4	68	67	70	48	Overcast						
5	68	67	72	50	Overcast						
6	68	67	78	51	Overcast						
7	68	67	82	55	Overcast						
8	68	67	88	51	Foggy						
9	68	67	77	47	Clear						
10	67	67	81	43	Clear						
11	67	67	68	44	Cloudy						
12	66	66	68	49	Clear						
13	66	65	68	51	Clear						
14	66	65	72	48	Clear						
15	66	64	72	41	Clear						
16	65	64	71	41	Light Rain						
17	65	63	53	41	Clear						
18	64	63	63	38	Clear						
19	63	62	60	38	Overcast						
20	63	62	60	40	Clear						
21	63	62	68	42	Overcast						
22	62	62	68	42	Clear						
23	62	62	74	41	Clear						
24	62	62	82	47	Clear						
25	62	61	82	52	Clear						
26	61	60	82	50	Overcast						
27	61	60	68	40	Clear						
28	61	60	65	40	Overcast						
29	61	60	56	43	Cloudy						
30	61	60	65	44	Cloudy						
31	61	60	60	42	Clear						

APPENDIX TABLE 1 (Continued)

November	Temperature (°F)				Weather	Fish trapped				
	Water		Air			Chinook salmon		Coho salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	60	59	68	36	Clear					
2	60	59	65	49	Rain					
3	60	59	62	42	Clear					
4	60	59	65	42	Clear					
5	60	59	72	43	Clear					
6	60	59	60	43	Overcast					
7	60	59	60	43	Overcast					
8	58	57	52	44	Overcast					
9	58	57	59	38	Overcast	2				
10	56	56	60	45	Rain					
11	56	56	56	47	Rain					
12	56	55	60	53	Rain					
13	56	55	58	48	Rain					
14	55	55	60	40	Overcast					
15	55	55	60	40	Rain					
16	55	55	50	45	Overcast					
17	55	55	60	39	Overcast					
18	55	54	57	40	Overcast					
19	55	54	62	44	Overcast			2		3
20	53	53	65	42	Rain	1		7		
21	53	53	56	38	Clear			3		1
22	53	53	59	39	Clear	1		1		
23	53	53	64	38	Clear			2		
24	53	53	50	39	Overcast					
25	53	53	53	32	Overcast					
26	53	53	55	32	Overcast	2		9		1
27	53	53	52	34	Rain			2		
28	53	53	55	45	Overcast			1		1
29	53	53	55	38	Overcast			2		
30	53	53	55	36	Overcast			3		1
Monthly Totals						6		32		7

APPENDIX TABLE 1 (Continued)

December	Temperature (°F)				Weather	Fish trapped				
	Water		Air			Chinook	salmon	Coho	salmon	Steelhead
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	trout
1	53	53	58	36	Clear					
2	53	53	58	36	Overcast					
3	53	53	50	40	Overcast			2		
4	53	53	60	36	Overcast			2		1
5	53	53	48	38	Rain			4		2
6	53	53	62	42	Overcast			2		
7	53	53	66	38	Overcast			2		1
8	53	53	65	38	Clear					
9	53	52	57	40	Overcast					1
10	53	52	62	46	Overcast	1		1		
11	53	52	58	42	Overcast			1		1
12	52	52	58	38	Overcast	1				
13	52	52	55	38	Overcast			3		1
14	52	52	58	35	Overcast			1		
15	52	52	62	36	Rain					
16	52	52	52	28	Clear					
17	52	52	50	27	Overcast			1		1
18	52	51	50	30	Overcast			2		
19	52	51	41	29	Clear			1		
20	52	51	51	28	Clear			3		
21	52	51	52	27	Clear			1		1
22	52	51	56	29	Clear					
23	52	51	56	29	Clear					
24	51	51	57	30	Foggy			1		
25	51	51	43	32	Foggy					
26	51	51	42	32	Rain			2		
27	50	50	52	32	Clear			1		
28	50	50	53	29	Clear			2		
29	50	50	57	28	Foggy					
30	50	50	42	30	Clear					
31	50	50	52	34	Foggy			3		
Monthly Totals						2		35		9
Cumulative Totals						8		67		16

APPENDIX TABLE 1 (Continued)

January	Temperature (°F)				Weather	Fish trapped				
	Water		Air			Chinook salmon		Coho salmon	Steelhead trout	
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	50	50	55	26	Clear					
2	50	50	52	26	Clear			1		
3	50	50	61	30	Clear					
4	50	50	60	32	Clear					
5	50	50	60	32	Clear					
6	50	50	56	39	Clear					
7	50	49	52	38	Rain			2		
8	50	49	52	35	Clear			1		
9	49	49	56	35	Rain					
10	49	49	50	35	Foggy				1	
11	49	49	55	36	Clear					
12	49	48	58	32	Clear					
13	49	48	58	30	Foggy					
14	49	48	55	28	Foggy			2		
15	48	48	52	29	Foggy			1	1	
16	48	48	51	34	Foggy					
17	48	48	55	32	Foggy				2	
18	48	48	58	30	Foggy				1	
19	48	48	50	31	Foggy					
20	48	48	49	33	Foggy					
21	48	48	43	35	Foggy					
22	48	48	45	35	Foggy					
23	48	48	56	33	Foggy					
24	48	48	50	32	Foggy					
25	48	48	45	36	Overcast					
26	48	48	48	39	Overcast					
27	48	48	60	32	Foggy					
28	48	48	58	34	Overcast					
29	48	48	55	32	Clear					
30	48	48	56	33	Clear					
31	48	48	59	34	Clear				1	
Monthly Totals								7		6
Cumulative Totals						8		74		22

APPENDIX TABLE 1 (Continued)

February	Temperature (°F)				Weather	Fish trapped				Steelhead trout
	Water		Air			Chinook salmon		Coho salmon		
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	48	48	59	30	Clear					3
2	48	48	57	30	Clear					
3	48	48	57	29	Clear					
4	48	48	58	29	Clear					
5	48	48	59	28	Clear					
6	48	48	58	28	Clear					
7	48	48	52	34	Rain					4
8	49	48	55	43	Rain			2		28
9	49	48	56	31	Clear					53
10	49	48	54	28	Clear					
11	49	48	56	30	Clear					65
12	49	48	60	38	Clear					53
13	49	48	70	45	Foggy					37
14	49	48	72	38	Clear					19
15	49	49	72	37	Clear					70
16	49	49	77	37	Clear					
17	49	49	75	45	Clear					
18	49	49	70	38	Clear					93
19	49	49	72	32	Foggy					39
20	50	50	65	32	Clear					21
21	50	50	60	38	Clear					36
22	50	50	73	42	Clear					40
23	50	50	78	45	Clear					
24	50	50	82	41	Clear					
25	50	50	70	36	Clear					22
26	50	50	75	39	Clear					21
27	51	50	71	39	Clear					11
28	51	50	78	32	Clear					
Monthly Totals								2		615
Cumulative Totals						8		76		637

APPENDIX TABLE 1 (Continued)

March	Temperature (°F)				Weather	Fish trapped				
	Water		Air			Chinook salmon		Coho salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	51	50	73	34	Foggy					
2	51	50	60	39	Clear					2
3	51	50	57	29	Clear					
4	51	50	62	34	Clear					11
5	51	50	53	29	Rain					51
6	51	50	42	33	Rain					5
7	51	50	47	34	Cloudy					10
8	51	50	54	31	Clear					11
9	51	50	61	32	Cloudy					
10	51	50	65	43	Rain					
11	51	50	52	38	Clear					26
12	51	50	66	38	Cloudy					
13	51	50	58	38	Foggy					5
14	51	50	70	35	Clear					2
15	51	50	70	35	Foggy					3
16	50	49	72	41	Foggy					
17	50	49	56	42	Overcast					
18	50	49	58	43	Cloudy					2
19	50	48	62	39	Foggy					
20	50	48	69	39	Clear					4
21	48	48	69	39	Clear					1
22	48	48	60	33	Clear					1
23	48	48	67	40	Clear					
24	48	48	66	45	Rain					
25	48	48	55	36	Clear					
26	48	48	50	32	Rain					27
27	48	48	53	35	Cloudy					11
28	48	48	52	32	Clear					2
29	48	48	56	34	Clear					4
30	48	48	66	36	Clear					
31	48	48	74	37	Clear					
Monthly Totals										178
Cumulative Totals						8		76		815

APPENDIX TABLE 1 (Continued)

April	Temperature (°F)				Weather	Fish trapped				
	Water		Air			Chinook salmon		Coho salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	50	50	82	45	Clear					8
2	50	50	84	46	Clear					4
3	50	50	87	44	Clear					3
4	50	50	87	46	Clear					4
5	50	50	87	51	Clear					3
6	50	50	82	51	Overcast					
7	50	50	65	51	Overcast					
8	50	50	77	45	Clear					
9	50	50	80	45	Foggy					
10	50	50	68	45	Overcast					
11	50	50	66	41	Foggy					
12	50	50	74	45	Clear					
13	50	50	88	44	Clear					
14	50	50	92	50	Clear					
15	50	50	89	47	Cloudy					
16	50	50	58	42	Cloudy					
17	50	50	60	41	Overcast					
18	50	50	68	42	Clear					
19	50	50	70	42	Overcast					
20	50	50	61	44	Overcast					
21	50	50	56	45	Rain					
22	50	50	65	41	Clear					
23	50	50	72	47	Clear					
24	50	50	74	45	Clear					
25	50	50	70	43	Clear					
26	50	50	65	44	Clear					
27	50	50	79	57	Clear					
28	50	50	88	44	Foggy					
29	50	50	74	45	Foggy					
30	50	50	79	40	Clear					
<hr/>										
Monthly Totals										22
<hr/>										
Cumulative Totals						8	76	837		

APPENDIX TABLE 1 (Continued)

May	Temperature (°F)				Weather	Fish trapped				Steelhead trout
	Water		Air			Chinook salmon		Coho salmon		
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	50	50	84	39	Clear					
2	50	50	80	39	Clear					
3	50	50	75	40	Clear					
4	50	50	70	48	Clear					
5	50	50	80	43	Clear					
6	50	50	81	40	Foggy					
7	50	50	72	35	Overcast					
8	50	50	73	36	Overcast					
9	50	50	73	38	Clear					
10	50	50	72	44	Overcast					
11	50	50	69	40	Clear					
12	50	50	75	41	Clear					
13	50	50	80	43	Clear					
14	50	50	87	44	Clear					
15	50	50	88	46	Clear					
16	50	50	90	49	Foggy					
17	50	50	65	51	Overcast					
18	50	50	67	39	Clear					
19	50	50	81	40	Clear					
20	50	50	84	50	Clear					
21	50	50	82	42	Clear					
22	50	50	89	43	Clear					
23	50	50	91	54	Clear					
24	50	50	81	55	Clear					
25	50	50	83	46	Clear					
26	50	50	74	49	Foggy					
27	50	50	71	51	Foggy					
28	50	50	68	50	Overcast					
29	50	50	74	38	Clear					
30	50	50	70	39	Clear					
31	50	50	78	51	Overcast					
Monthly Totals										
Cumulative Totals						8	76		837	

APPENDIX TABLE 1 (Continued)

June	Temperature (°F)				Weather	Fish trapped				
	Water		Air			Chinook salmon		Coho salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	50	50	76	52	Clear					
2	50	50	69	42	Clear					
3	50	50	76	47	Clear					
4	50	50	85	55	Clear					
5	50	50	85	49	Clear					
6	50	50	86	50	Clear					
7	50	50	90	49	Clear					
8	50	50	87	49	Clear					
9	50	50	95	55	Clear					
10	50	50	95	66	Clear					
11	50	50	100	68	Clear					
12	50	50	106	51	Clear					
13	50	50	88	50	Foggy					
14	50	50	98	52	Clear					
15	50	50	95	68	Clear					
16	50	50	102	64	Clear					
17	50	50	99	52	Overcast					
18	50	50	86	54	Overcast					
19	50	50	90	53	Overcast					
20	50	50	78	53	Overcast					
21	50	50	80	51	Overcast					
22	50	50	82	52	Overcast					
23	50	50	76	50	Overcast					
24	50	50	82	51	Overcast					
25	50	50	79	42	Clear					
26	51	50	92	42	Clear					
27	51	50	97	45	Clear					
28	51	50	97	50	Overcast					
29	51	50	92	44	Clear					
30	51	50	86	44	Clear					
Monthly Totals										
Cumulative Totals						8	76	837		