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ANNUAL REPORT
IRON GATE SALMON AND STEELHEAD HATCHERY
1974-75

by

Eugene E. Arnold
Region 1, Inland Fisheries

Anadromous Fisheries Branch
Administrative Report No. 77-9

1977

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ABSTRACT

This report describes the operation of the hatchery from July 1, 1974 through June 30, 1975. Tables present daily records of water temperatures and weather conditions, daily numbers of salmonids entering the hatchery, and total numbers of salmonids reared and released.

Nineteen spring-run and 9,395 fall-run adult king salmon (Oncorhynchus tshawytscha) produced 44,603 eggs and 14,672,796 eggs respectively. The 456 adult silver salmon (O. kisutch) produced 608,382 eggs. The 1,062 fall-trapped steelhead (Salmo gairdnerii gairdnerii) produced 718,860 eggs and 2,165 spring-trapped steelhead produced 2,317,726 eggs.

About 7,108,000 fingerling king salmon, 70,000 fingerling and 85,000 yearling silver salmon, and 418,500 fingerling and 200,000 yearling steelhead were planted in F.Y. 1974-75.

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INTRODUCTION

This report covers the fourteenth year of operation of the trapping facilities at Iron Gate Hatchery. These facilities were completed by the Pacific Power and Light Company in February 1962, and have been operated by the Department of Fish and Game during the spring and fall of each year.

The hatchery was constructed by the Pacific Power and Light Company to compensate for spawning and nursery areas blocked by the Iron Gate Project. This is the tenth report since the hatchery was completed in February 1966. The Department of Fish and Game, under agreement with the Pacific Power and Light Company, began operation of the hatchery in March 1966. The trapping facilities and hatchery are located on the Klamath River eight miles east of the town of Hornbrook, Siskiyou County.

The report summarizes the numbers of fish trapped and spawned, production of eggs and fish, and water and weather conditions from July 1, 1974 through June 30, 1975.

PRODUCTION SUMMARY

The first spring-run king salmon arrived at the Iron Gate trapping facilities on July 3, 1974, and the last on August 28, 1974.

Fall-run king salmon were taken from September 1 until November 3, 1974. Silver salmon started entering the trap October 15, 1974 and continued until January 31, 1975. Steelhead trout were trapped from July 17, 1974 to May 3, 1975 when the trap was closed for yearly maintenance (Figure 1).

Production data are summarized in Table 1.

Table 1. Production Summary

	Adults trapped	Females spawned	Number eggs taken	Estimated number fingerlings planted	Estimated number yearlings planted	Total weight pounds	Fish on hand June 30, 1975
King salmon, spring run							
1973 BY				18,000			0
1974 BY	19	14	44,603				10,000
King salmon, fall run							
1974 BY	9,395	4,997	14,672,796	7,090,000		71,225	200,000
Silver salmon							
1973 BY				70,000	85,000	4,104	0
1974 BY	456	251	608,382				110,000
Steelhead							
1974 BY				318,500	200,000	22,144	0
1975 BY	3,227	1,284	2,417,726	100,000		100	1,205,000

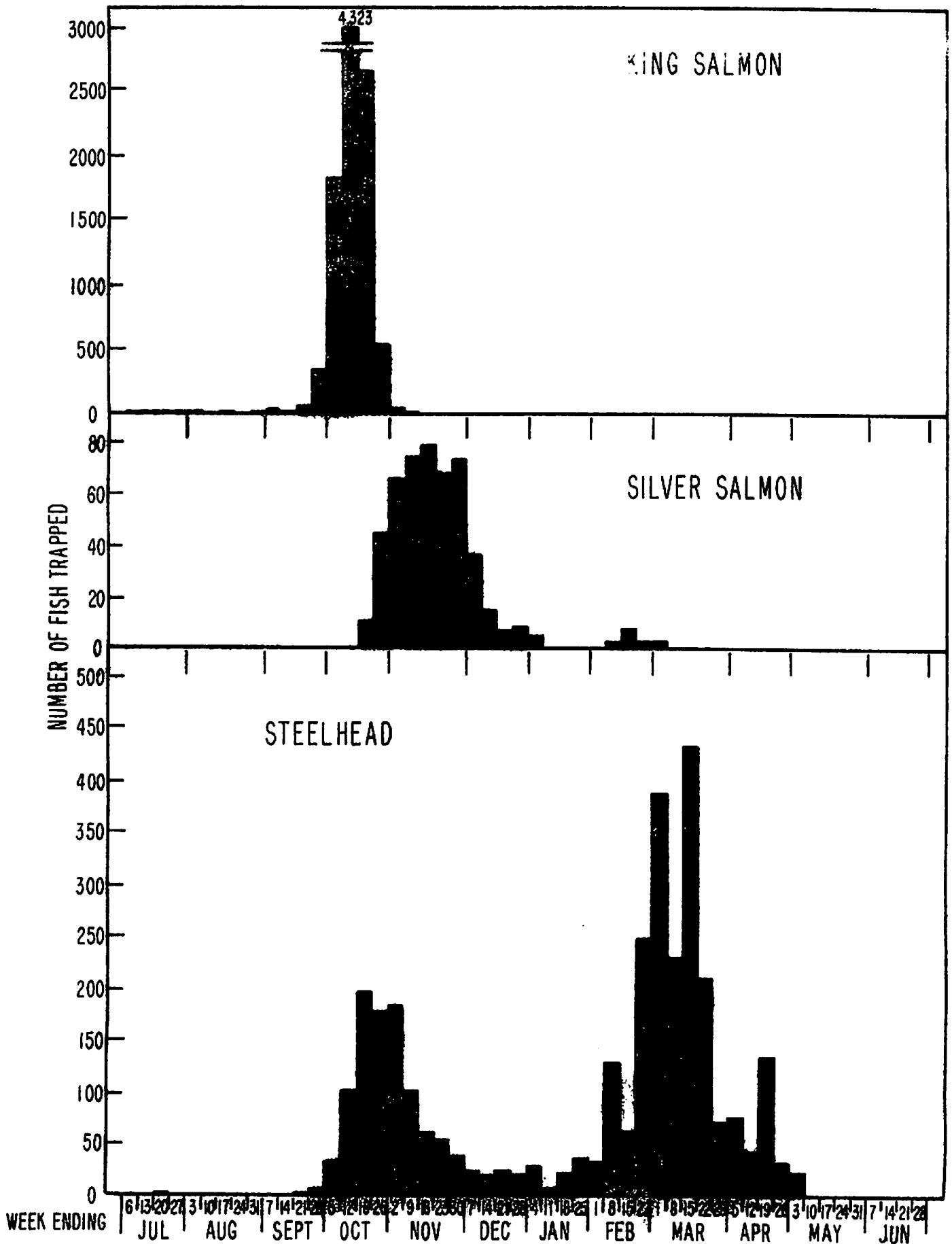


Figure 1. Weekly numbers of king salmon, silver salmon, and steelhead trapped at Iron Gate Hatchery, July 1, 1974 to June 30, 1975.

KING SALMON MAINTENANCE PROGRAM

History of the 1974 Run

Spring Run, 1974 Brood Year

Between July 3 and August 28, 1974, 27 1974 broodyear spring-run king salmon were trapped. Eight of these were grilse. They were added to the four 1974 broodyear spring-run king salmon taken in June 1974 and the combined group was spawned in the fall of 1974.

Fourteen spring-run females were spawned. They produced 44,603 eggs for an average of 3,285 eggs/female. Four lots of eggs were taken. The average fertility of these eggs was 45%. We had approximately 10,000 fingerlings on hand June 30, 1975. All were to be held for release as yearlings.

Fall Run, 1974 Brood Year

A total of 9,805 fall-run king salmon was trapped: 4,024 males, 5,371 females, and 410 grilse. There were 4,997 fall-run king salmon females spawned, producing 14,672,796 eggs, for an average of 2,936 eggs/female. Prespawning mortality was 374 females (6.9%). Nineteen lots of eggs were taken from fall-run fish. The average fertility of the fall-run eggs was 77%.

Planting 1973-74 Broodyear King Salmon

There were 7,090,000 fingerlings planted from April 25 to June 5, 1975 (Table 2). Size at planting ranged from 50 to 500/lb. An additional 200,000 fingerlings were held for planting in February 1976.

In addition, 18,000 1973 broodyear fingerlings were planted in July 1974 at 50/lb.

Table 2. King Salmon Planting Data

Race and brood year	Date released	Average size (no./lb)	Number released	Release site
Spring run, 1973 BY	7/12/74	50	18,000	Hatchery outlet
Fall run, 1974 BY	4/25/75	500	1,065,000	Hatchery outlet
	5/23/75	87	1,125,000	" "
	5/27/75	87	1,300,000	" "
	6/ 3/75	89	3,000,000	" "
	6/ 5/75	80	600,000	" "
Total			7,108,000	

Marked King Salmon Recovered

During fiscal year 1974-75 five marked king salmon were trapped (Table 3). All were Iron Gate marks.

Table 3. Marked King Salmon Recovered

Mark	Number trapped	Brood year	Race	Number released	Date released	Average size at release	Release site
RV	3	1970	Spring run	6,487	3/ 1/72	4.2/lb	Hatchery outlet
LV	2	1970	Spring run	6,486	11/15/71	6.0/lb	Hatchery outlet

SILVER SALMON MAINTENANCE PROGRAM

History of the 1974 Run

The first silver salmon entered the trap October 15, 1974 and the last January 31, 1975. A total of 497 was trapped: 263 females, 193 males, and 41 grilse. Spawning of 251 females produced 608,382 eggs for an average of 2,423 eggs/female. Egg loss was fairly high, primarily due to white-spot and soft-shell. We had approximately 110,000 fingerlings remaining on hand June 30, 1975. All were held for release as yearlings in spring, 1976.

Planting 1973 Broodyear Silver Salmon

There were 155,000 silver salmon planted during the 1974-75 season (Table 4).

Table 4. Silver Salmon Planting Data

Date	Average size (no./lb)	Number	Release site
7/25/74	200	70,000	Hatchery outlet
11/27/74	3	10,000	Hatchery outlet
2/27/75	14	75,000	Hatchery outlet
Total		155,000	

STEELHEAD TROUT MAINTENANCE PROGRAM

History of the 1974-75 Run

Between July 17, 1974 and December 31, 1974, 1,062 adult steelhead entered the trap and were placed in the holding ponds to await spawning in the spring. An additional 2,165 adult steelhead were trapped in the spring between January 9, 1975 and May 3, 1975. For the seventh consecutive year, these two groups were held and spawned separately. The 394 females spawned from the fall-trapped group produced 718,860 eggs, an average of 1,824 eggs per female; the 890 females from the spring trapped group produced 1,698,866 eggs for an average of 1,908 eggs/female. This made a total of 2,417,726 steelhead eggs, from 1,284 females, for the season. We had approximately 1,205,000 1975 broodyear steelhead fingerlings on hand June 30, 1975.

Marked Steelhead Trapped

A total of 47 marked steelhead was trapped this season (Table 5). Of these, four had been reared at Iron Gate Hatchery. In addition, one fish was captured which bore Oregon Game Commission tag number 0-2635.

Table 5. Marked Steelhead Trapped

Mark	Number trapped	Brood year	Number released	Date released	Average size at release	Release site
RP	3	1972	30,000	1973	19/lb	Mad River
LV	6	1970	35,000	4/71	yearlings	Trinity River
Ad	9	1973		1974	yearlings	Mad River
RV	4	1970	35,000	1971	9.7/lb	Pecwan
D	6					
RV-LV	3					
Ad-RV	4	1973		1974	10.7/lb	Weitchpec
Ad-LV	1	1973	65,390	1974	yearlings	Trinity River
RV-freeze brand	3	1972	2,000	5/73	15/lb	Iron Gate
LV-freeze brand	1	1972	2,000	5/73	15/lb	Iron Gate
Freeze brand only	4	1972		5/73		Iron Gate-Bogus Pond fish
An	1					
Ad-D	2					

Planting 1974-75 Broodyear Steelhead

There were 518,500 1974 broodyear steelhead planted: 318,500 fingerlings in 1974, and 200,000 yearlings in 1975. An additional 100,000 fingerlings, brood-year 1975, were planted in 1975 (Table 6).

Table 6. Steelhead Planting Data

Date	Brood year	Average size (no./lb)	Number	Release site
7/12/74	1974	338	200,000	Hatchery outlet
10/ 7/74	1974	154	38,500	P.P.&L. Boat Ramp
11/26/74	1974	46	80,000	Fish ladder
6/13/75	1975	1,000	100,000	Hatchery outlet
Total fingerlings			418,500	
5/ 1/75	1974	10	60,400	Fish ladder
5/ 6/75	1974	10.9	40,800	" "
5/13/75	1974	10.1	98,800	" "
Total yearlings			200,000	
Total plants 1974/75 Fiscal Year			618,500	

PUBLIC RELATIONS

During 1974-75 fiscal year, 12,715 people visited the hatchery, including 822 people in organized groups.

Appendix Table 1

Yearly Comparison of Fish Trapped at Iron Gate Salmon and Steelhead Hatchery
July 1, 1965 through June 30, 1975

Species	7/1/65 through 6/30/66	7/1/66 through 6/30/67	7/1/67 through 6/30/68	7/1/68 through 6/30/69	7/1/69 through 6/30/70	7/1/70 through 6/30/71	7/1/71 through 6/40/72	7/1/72 through 6/30/73	7/1/73 through 6/30/74	7/1/74 through 6/30/75
<u>King salmon</u>										
Male	141	1,129	850	972	539	2,889	4,413	1,126	3,273	4,024
Female	224	1,610	1,275	1,714	474	7,395	6,033	1,919	4,135	5,371
Unsexed spring run	-	-	-	-	-	-	80	155	12	19
Total adults	365	2,739	2,125	2,686	1,013	10,284	10,526	3,200	7,430	9,414
Grilse	313	325	562	78	1,917	219	315	484	1,299	418
Total	678	3,064	2,687	2,764	2,930	10,503	10,845	3,684	8,729	9,832
<u>Silver salmon</u>										
Male	2	2	27	14	84	716	74	38	201	193
Female	0	2	24	10	118	671	52	18	212	263
Total adults	2	4	51	24	202	1,387	125	56	413	456
Grilse	0	0	28	333	749	236	21	35	428	41
Total	2	4	79	357	951	1,623	146	91	841	497
<u>Steelhead</u>										
Spring trap	-	-	-	-	813	2,073	3,583	1,060	665	2,165
Fall trap	-	-	-	-	381	292	174	226	1,200	1,062
Total adults	227	299	984	370	1,194	2,365	2,757	1,286	1,865	3,227

Appendix Table 2

Iron Gate Salmon and Steelhead Hatchery
 Weather, Water, and Fish Data Report
 July 1, 1974, through June 30, 1975

July	Temperature (Degree F)				Weather	Fish Trapped				
	Water		Air			King Salmon		Silver Salmon		Steelhead Trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	53	51	75	49	clear					
2	54	51	84	39	clear					
3	53	51	94	44	clear	2	3			
4	54	52	87	49	clear	1				
5	51	52	82	50	clear					
6	54	52	80	48	clear					
7	54	52	78	45	cloudy					
8	53	52	70	55	cloudy					
9	54	52	70	46	rain					
10	54	53	68	46	cloudy	1				
11	54	52	75	40	pty cloudy					
12	53	50	86	40	clear					
13	54	52	90	44	clear					
14	54	52	92	48	clear					
15	53	52	78	50	clear					
16	54	52	86	43	clear					
17	54	52	90	54	clear	3				1
18	54	52	91	54	rain					
19	55	52	93	56	clear					
20	54	51	94	54	clear					
21	54	52	95	55	clear		1			
22	54	52	84	52	clear					
23	55	52	90	48	clear					
24	54	52	96	50	clear					
25	54	51	101	54	clear					
26	55	52	98	58	cloudy					
27	54	52	96	54	cloudy					
28	54	52	98	54	clear					
29	54	53	95	53	clear	4	1			
30	55	52	96	55	clear					
31	54	52	100	58	clear					
TOTALS						11	5			1

Appendix Table 2 (continued)

August	Temperature (Degree F)		Air	Weather	King Salmon		Silver Salmon		Steelhead Trout
	Maximum	Minimum			Adults	Grilse	Adults	Grilse	
1	54	53	98	clear					
2	54	53	99	clear					
3	54	53	102	pty cloudy					
4	54	53	98	clear					
5	54	53	82	rain					
6	54	53	86	clear					
7	55	53	82	clear					
8	55	53	84	clear					
9	55	53	88	clear					
10	55	54	90	clear					
11	55	54	90	clear					
12	55	54	84	clear					
13	55	54	85	clear					
14	55	54	82	clear					
15	55	54	87	clear					
16	55	54	90	clear	1				
17	55	54	90	clear					
18	55	54	80	clear					
19	55	54	68	clear					
20	55	54	84	clear					
21	55	54	86	clear					
22	55	54	90	clear					
23	55	54	90	clear					
24	55	54	92	clear					
25	55	54	94	clear					
26	55	54	93	clear					
27	55	54	95	clear					
28	55	54	94	clear					
29	55	54	96	clear	6				
30	55	54	96	clear					
31	55	54	98	clear					
TOTALS					8		2		3

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Appendix Table 2 (continued)

September	Temperature (Degree F)				Weather	Fish Trapped					
	Water		Air			King Salmon		Silver Salmon		Steelhead Trout	
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse		
1	55	54	92	54	clear	1					
2	55	54	100	53	clear						
3	55	54	90	50	clear	11					
4	56	54	87	50	clear	11					
5	56	54	93	46	clear						
6	56	54	94	47	clear						
7	55	54	92	56	clear	2					
8	55	54	90	44	clear						
9	55	54	84	50	clear						
10	56	54	74	51	clear						
11	56	54	78	44	clear						
12	56	54	80	51	clear	5					
13	56	54	78	52	clear						
14	56	55	86	37	clear						
15	56	55	88	40	clear						
16	56	55	93	40	clear	14		2			1
17	55	55	95	42	clear	8					
18	56	55	94	42	clear	8		1			
19	56	55	98	42	clear	12		1			
20	56	55	97	44	clear	14					
21	56	55	94	43	clear						
22	56	55	94	44	clear						
23	56	55	94	43	clear	41		3			2
24	56	55	92	42	clear	47		3			2
25	56	56	90	42	clear	45		1			
26	56	56	81	41	clear	53					2
27	57	56	79	40	clear	78		6			2
28	57	56	85	33	clear	62		2			2
29	57	57	87	37	clear	91					2
30	57	55	85	39	clear	102		1			3
TOTALS						600		20			19

Appendix Table 2 (continued)

October	Temperature (Degree F)				Weather	Fish Trapped				
	Water		Air			King Salmon		Silver Salmon		Steelhead Trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	57	55	83	39	clear	184	3			4
2	58	56	86	37	clear	309	6			4
3	58	56	76	40	rain	278	8			5
4	58	56	72	38	clear	314	8			6
5	59	56	65	32	clear	521	6			5
6	59	57	69	28	clear	369	4			3
7	58	57	80	30	clear	612	5			7
8	59	59	65	33	cloudy	717	13			14
9	59	58	74	35	cloudy	495	10			10
10	59	58	74	32	clear	513	15			30
11	59	56	74	31	clear	548	23			24
12	59	58	79	31	clear	634	30			14
13	59	58	82	31	clear	617	17			29
14	59	58	82	32	clear	290	17			18
15	59	58	82	33	clear	533	34	1		16
16	58	57	83	32	clear	357	21	2		40
17	58	57	80	30	clear	303	30	3		38
18	58	57	82	31	clear	200	16	2		30
19	58	57	79	30	pty cloudy	202	20	2		22
20	57	57	57	34	pty cloudy	123	17	3		17
21	57	56	70	25	clear	51	12	10	1	22
22	57	56	69	25	clear	78	12	2		44
23	57	56	70	27	clear	57	9	2		20
24	56	55	68	27	clear	59	12	14		23
25	56	55	70	30	clear	14	12	3		22
26	56	55	66	30	cloudy	20	10	6		26
27	55	55	66	44	rain	3		6		23
28	55	55	44	42	rain	3	5	9	1	20
29	55	55	50	42	cloudy					
30	55	54	52	28	rain	10	1	8	1	26
31	55	54	50	40	rain					
TOTALS						8,779	382	76	3	564

Appendix Table 2 (continued)

November	Temperature (Degree F)				Weather	Fish Trapped				
	Water		Air			King Salmon		Silver Salmon		Steelhead
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	Trout
1	54	54	50	30	cloudy	8	3	22	3	33
2	54	53	55	52	clear	6	4	15		30
3	54	52	58	26	clear	2	1	9	10	26
4	53	52	56	22	cloudy			21	3	45
5	52	52	61	25	cloudy					
6	52	51	64	37	cloudy			10		15
7	51	51	45	42	cloudy			16	4	14
8	52	50	53	30	pty cloudy					
9	50	50	53	34	rain					
10	50	50	58	36	clear					1
11	50	49	58	30	clear			47	6	40
12	49	49	54	29	pty cloudy					
13	49	48	61	26	pty cloudy					
14	49	48	58	33	pty cloudy			22	3	19
15	49	48	58	28	clear					
16	48	48	56	26	clear					
17	48	48	50	26	cloudy					
18	48	47	46	37	cloudy					
19	47	47	52	30	cloudy					
20	47	47	57	29	cloudy			67		53
21	47	47	58	32	rain					
22	47	47	48	25	clear					
23	47	47	52	34	cloudy					
24	47	46	60	28	pty cloudy					
25	47	46	48	33	pty cloudy					
26	47	46	47	22	pty cloudy					
27	46	46	47	25	pty cloudy			68	4	36
28	46	45	46	22	cloudy					
29	45	45	48	19	pty cloudy					
30	45	44	54	22	clear					
TOTALS						16	8	288	33	362

Appendix Table 2 (continued)

December	Temperature (Degree F)				Weather	Fish Trapped				
	Water		Air			King Salmon		Silver Salmon		Steelhead Trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	45	45	48	24	cloudy					
2	45	44	46	40	rain					
3	44	44	52	35	rain					
4	44	43	50	34	pty cloudy			34	2	24
5	43	43	47	24	pty cloudy					
6	43	43	46	32	rain					
7	43	42	53	23	clear					
8	53	42	51	21	clear					
9	42	42	42	26	cloudy					
10	43	42	36	18	cloudy			14	1	20
11	43	42	42	34	rain					
12	42	41	50	40	rain					
13	42	41	48	27	rain					
14	41	41	46	30	rain					
15	41	41	51	42	rain					
16	42	41	52	40	clear					
17	41	41	47	31	cloudy					
18	41	41	44	26	snow			7		24
19	41	41	40	24	snow					
20	41	41	53	32	clear					
21	41	41	40	30	snow					
22	41	41	36	24	snow					
23	41	41	38	14	clear					
24	41	40	33	12	clear			8		20
25	41	40	41	13	clear					
26	41	40	40	12	cloudy					
27	41	41	40	25	snow					
28	40	39	37	17	clear					
29	40	39	32	10	clear					
30	40	39	35	19	snow					
31	40	39	30	5	clear			4	1	28
TOTALS								67	4	116

Appendix Table 2 (continued)

January	Temperature (DegreeF)				Weather	Fish Trapped				
	Water		Air			King Salmon		Silver Salmon		Steelhead
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	Trout
1	40	39	38	12	cloudy					
2	39	39	31	8	clear					
3	39	38	30	8	snow					
4	39	38	45	25	clear					
5	39	38	41	32	rain					
6	39	38	40	33	cloudy					
7	38	38	42	29	rain					
8	40	39	39	30	pty cloudy					
9	39	37	30	20	snow					7
10	39	37	44	24	clear					
11	37	36	44	30	clear					
12	37	36	44	24	clear					
13	37	37	33	22	pty cloudy					
14	37	36	32	23	pty cloudy					
15	37	36	31	23	pty cloudy					24
16	37	36	40	24	clear					
17	37	36	42	20	clear					
18	37	36	42	20	clear					
19	37	36	44	23	clear					
20	37	36	48	20	clear					
21	37	36	50	19	clear					36
22	37	36	47	20	clear					
23	37	36	50	28	pty cloudy					
24	37	36	56	30	clear					
25	37	37	53	27	clear-fog					
26	37	36	53	25	snow					
27	38	36	40	16	clear					
28	37	37	34	12	snow					33
29	37	36	38	12	clear					
30	37	36	38	7	clear					
31	40	37	35	22	snow					
TOTALS										100

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Appendix Table 2 (continued)

February	Temperature (Degree F)				Weather	Fish Trapped				
	Water		Air			King Salmon	Silver Salmon		Steelhead	
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	Trout
1	37	36	42	25	snow					
2	37	36	38	30	snow					
3	37	36	43	20	pty cloudy					
4	37	36	40	21	snow			3		94
5	37	36	45	24	snow					
6	37	36	50	28	pty cloudy					25
7	37	36	55	33	clear					8
8	37	36	57	32	pty cloudy					
9	38	36	50	33	pty cloudy					
10	38	36	50	32	pty cloudy			6		45
11	37	36	52	26	pty cloudy			2		17
12	37	37	43	38	rain					
13	37	36	50	33	rain					
14	37	36	40	26	showers					
15	37	37	44	16	clear					
16	37	37	44	22	snow					
17	37	37	47	20	clear					
18	38	37	40	25	showers					
19	39	38	47	33	rain			3		68
20	39	39	39	36	clear					
21	39	39	42	17	clear					178
22	39	38	50	16	clear					
23	38	38	54	18	clear					
24	38	38	59	25	clear			2	1	232
25	39	38	56	24	clear					104
26	39	38	50	24	showers					25
27	38	38	60	37	cloudy					
28	28	33	63	36	cloudy					26
29	37	36	36	12	clear					
30	37	36	38	7	clear					
31	40	37	35	22	snow					
TOTALS								15	1	822

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Appendix Table 2 (continued)

March	Temperature (Degree F)				Weather	Fish Trapped				
	Water		Air			King Salmon		Silver Salmon		Steelhead Trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	38	38	59	35	rain					
2	39	39	56	36	rain					
3	39	39	56	26	cloudy					
4	40	39	61	30	clear					
5	40	40	60	23	clear					93
6	40	40	51	40	rain					
7	41	40	55	38	rain					
8	40	40	53	40	rain					135
9	41	41	52	28	clear					
10	42	41	55	30	cloudy					
11	42	41	52	26	clear					288
12	43	41	55	22	clear					
13	43	42	46	30	snow					
14	43	42	55	22	clear					143
15	42	40	50	30	overcast					
16	43	41	48	28	overcast					
17	43	40	40	35	rain					
18	44	43	44	34	rain					78
19	43	43	46	31	cloudy					
20	44	43	43	20	cloudy					130
21	43	43	32	32	snow					
22	43	43	45	21	snow					
23	43	42	44	30	rain					
24	42	42	44	31	rain					70
25	42	41	40	34	clear					
26	42	41	44	27	clear					
27	41	40	45	30	clear					
28	40	39	52	28	clear					
29	40	39	66	23	clear					
30	40	39	52	26	clear					
31	40	39	42	26	cloudy					
TOTALS										937

Appendix Table 2 (continued)

April	Temperature (Degree F)				Weather	Fish Trapped			Steelhead Trout
	Water		Air			King Salmon	Silver Salmon		
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	
1	41	40	55	29	clear				75
2	41	40	56	29	cloudy				
3	41	40	48	33	pty cloudy				
4	41	41	46	26	snow				
5	42	41	46	26	snow				
6	42	42	48	24	clear				
7	43	42	44	30	rain				
8	42	42	52	33	cloudy				
9	43	42	58	24	clear				
10	43	42	56	28	rain				42
11	44	43	60	28	clear				
12	43	42	63	25	clear				
13	43	42	64	33	cloudy				
14	44	43	52	32	rain				
15	43	43	48	28	snow				
16	44	43	52	20	clear				
17	45	43	51	22	cloudy				
18	45	43	63	29	cloudy				133
19	45	44	55	40	clear				
20	45	44	64	25	clear				
21	45	44	66	23	clear				
22	46	44	61	27	cloudy				
23	46	45	60	35	cloudy				
24	46	44	50	44	rain				
25	50	44	47	29	rain				33
26	50	49	50	35	rain				
27	50	49	50	38	pty cloudy				
28	50	49	62	24	clear				
29	50	49	60	32	clear				
30	50	49	63	34	clear				
TOTALS									

Appendix Table 2 (continued)

Day	Temperature (Degree F)				Weather	Fish Trapped				
	Water		Air			King Salmon		Silver Salmon		Steelhead
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	Trout
1	54	51	73	31	clear					
2	55	51	68	34	clear					
3	51	51	54	41	rain					23
4	52	52	50	24	rain					
5	53	52	52	34	cloudy					
6	55	52	66	28	clear					
7	55	51	68	29	clear					
8	54	53	78	33	clear					
9	55	53	76	40	clear					
10	55	52	68	44	rain					
11	55	54	64	34	clear					
12	57	54	83	32	clear					
13	55	55	68	34	clear					
14	58	56	80	44	clear					
15	60	56	71	45	clear					
16	59	57	86	37	clear					
17	60	58	81	40	clear					
18	63	59	80	40	clear					
19	60	57	64	40	cloudy					
20	57	56	57	34	cloudy					
21	56	56	66	32	pty cloudy					
22	59	56	70	40	pty cloudy					
23	59	56	71	41	pty cloudy					
24	57	56	61	40	clear					
25	57	55	75	30	clear					
26	56	55	80	44	clear					
27	58	56	77	39	clear					
28	58	57	80	41	clear					
29	57	56	83	45	clear					
30	57	56	90	48	clear					
31	57	56	91	49	clear					
TOTALS										23

