

State of California
The Resources Agency
Department of Fish and Game

ANNUAL REPORT IRON GATE SALMON AND STEELHEAD HATCHERY
SEVENTH YEAR OF OPERATION, 1971-72^{1/}

by

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SUMMARY

The first fall-run king salmon, Oncorhynchus tshawytscha, arrived at the Iron Gate trapping facilities on September 7, 1971, and the last on November 8, 1971. Spring-run king salmon were taken from July 1, 1971, to July 15, 1971 (for spawning in the fall of 1971), and from June 19, 1972, until June 30, 1972 (for spawning in the fall of 1972). Silver salmon, Oncorhynchus kisutch, started entering the trap September 24, 1971, and continued until December 10, 1971. Steelhead trout, Salmo gairdnerii, were trapped from September 27, 1971, to March 20, 1972.

Production data are as follows:

Species	Number trapped	Number females spawned	Number eggs taken	Number fingerlings planted	Number yearlings planted	Total pounds planted	On hand June 30, 1972
King salmon							
fall run	10,746*	4,816	17,297,586	13,650,000	0	118,171	0
spring run	100**	10	30,600	0	12,973 ^{2/}	2,626	20,000
Silver salmon	146***	36	83,209	0	87,000 ^{2/}	15,734	49,800
Steelhead trout	3,757	1,100	2,268,005	0	439,800 ^{3/}	43,080	1,643,000

* Includes 10,435 adults and 311 grilse.

** There were 10 adults trapped from June 15, 1971, to June 30, 1971. These fish were combined with 16 adults and 4 grilse trapped from July 1, 1971, to July 15, 1971, for spawning in the fall of 1971. Eighty adults were trapped from June 19, 1972, to June 30, 1972, for spawning in the fall of 1972.

*** Includes 125 adults and 21 grilse.

^{1/} Anadromous Fisheries Branch Administrative Report No. 72-11.
Submitted August 1972.

^{2/} 1970 brood year.

^{3/} 1971 brood year.

INTRODUCTION

This report covers the eleventh year of operation of the trapping facilities at Iron Gate. 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 seventh 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 8 miles east of the town of Hornbrook, Siskiyou County.

This report summarizes the number of fish trapped and spawned, production of eggs and fish, and water and weather conditions from July 1, 1971, through June 30, 1972.

KING SALMON MAINTENANCE PROGRAM

History of the 1971-72 Salmon Run

During the period from July 1, 1971, to July 15, 1971, 16 adult spring-run salmon were trapped. These were added to the 10 adults taken in June, 1971. The combined group was spawned in the fall of 1971. On July 17, 1971, the water supply to the ladder and trap was shut down to conserve the cold water pool in Iron Gate Reservoir.

The fish ladder was opened again on September 5, 1971. A total of 10,746 fall-run salmon was trapped. Among these were 4,408 males, 6,027 females and 311 grilse.

There were 4,816 fall-run king salmon females spawned, producing 17,297,586 eggs, for an average of 3,592 eggs per female. There were 10 spring-run females spawned, and they produced 30,600 eggs, for an average of 3,060 eggs per female. Twenty-four lots of eggs were taken, 3 from spring-run fish and 21 from fall-run fish. The average fertility of the spring-run salmon eggs was 87% and the fall-run 94.7%. The progeny of the spring-run salmon are being reared separately.

Marked King Salmon

During the fiscal year 1971-72, five marked king salmon were trapped. Three were Iron Gate marks, two were strays. The marks were as follows:

Mark	Number trapped	Brood year	Number released	Date released	Size at release	Release site
RP	1	1967	3,000	11/68	-	Iron Gate Hatchery
LP	2	"	3,360	"	20/lb	"
LV	1	"	100,000	"	17.4/lb	Trinity R. Hatchery
RV	1	"	100,000	3/69	7"	"

Planting 1970 Brood-year Spring-run King Salmon and 1971 Brood-year Fall-run King Salmon

Species	Date planted	Size	Number fish	Locality of plant
King salmon 1970				
spring run*	11/15/71	6.0/lb	6,486	Hatchery discharge
	3/1/72	4.2/lb	6,487	"
1971				
fall run	3/13/72	992/lb	2,500,000	"
	4/3/72	350/lb	500,000	"
	4/6/72	419/lb	"	"
	5/18/72	410/lb	"	"
	5/23/72	150/lb	"	"
	6/8/72	84/lb	3,600,000	"
	6/9/72	87/lb	3,200,000	"
	6/12/72	85/lb	2,350,000	"

* Marked (LV, fall release; RV, spring release).

SILVER SALMON MAINTENANCE PROGRAM

History of the 1971 Run

The first silver salmon entered the trap on September 24, 1971, and the last on December 10, 1971. A total of 146 silver salmon were trapped. Of these, 73 were males, 52 females, and 21 grilse. Spawning of 36 females produced 83,209 eggs for an average of 2,311 eggs each. The first spawning was on October 7, 1971, and the last on December 22, 1971.

Planting 1970 Brood year Silver Salmon

Species	Date	Size	Number fish	Locality of plant
Silver salmon 1970	10/21/71	15/lb	86,000	Hatchery discharge

Marked Silver Salmon Trapped

Mark	Number trapped	Brood year	Number released	Date released	Size at release	Release site
Ad-An-RV	3	1969	17,780	3/71	6.0/lb	Iron Gate
An-RV	5	"	27,075	"	"	"
An-LV	3	"	29,500	12/70	10.0/lb	"
Ad-An-LV	1	"	15,775	"	8/lb	"

STEELHEAD TROUT MAINTENANCE PROGRAM

History of the 1971-72 Run

During the fall period (September 27, 1971, to December 31, 1971), 174 adult steelhead entered the trap and were placed in the holding ponds to await spawning in the spring. In the spring (January 1, 1972, to March 20, 1972), 3,583 adult steelhead were trapped. For the fourth year these two groups were held and spawned separately. From the fall trapped steelhead, 65 females produced 127,750 eggs for an average of 1,965 eggs per female while in the spring trapped group 1,035 females produced 2,140,255 eggs for an average of 2,068 eggs per female. This made a total of 2,268,005 steelhead eggs, from 1,100 females, for the season. The overall fertility for both groups averaged 92%.

A total of 1,388 marked steelhead were trapped this year. All were reared at Iron Gate Hatchery (Table A-1).

Planting Brood year 1971 Steelhead (All Spring Trapped)

Date	Fish per pound	Number of fish	Locality of plant
4/28/72	10	157,000	Iron Gate Hatchery
5/11/72	11	100,000	"
5/18/72	10	84,000	"
5/23/72	11	98,800	"

Planting Adult Steelhead Surplus

A total of 280 surplus steelhead adults, trapped at Iron Gate Salmon and Steelhead Hatchery, were distributed within the Klamath River system as follows:

Date	Pounds per fish	Number of fish	Locality of plant
3/14/72	3.5	100	Shasta River
3/16/72	3	50	Hutton Creek
"	"	60	E. Fork Scott River
3/21/72	"	70	"

All releases were approximately one-half male and one-half female. Initial planting loss for the four plants was 2 fish.

On April 24, 1968, the Department entered into an agreement with the Pacific Power and Light Company and the Oregon Game Commission to rear and release 100,000 yearling steelhead at Iron Gate Hatchery. This is being done in an attempt to establish a steelhead fishery on the river between Klamath Falls and Copco Lake which lies just south of the California-Oregon border. When these fish return as adults, they are trucked to the Upper Klamath River by the Oregon Game Commission. This agreement has involved three separate brood years of steelhead. The marking phase of the agreement was concluded last year.

This year, 976 of the marked adult steelhead trapped at Iron Gate Hatchery were transported by the Oregon Game Commission and planted in the Upper Klamath River, above Copco Lake. This is the second year adults marked for this program have returned to the hatchery.

PUBLIC RELATIONS

During the period of this report, 5,396 people visited the hatchery. Included in the total were 598 people in many organized groups which were conducted through the installation.

APPENDICES

TABLE A-1 Marked Steelhead Trapped at Iron Gate Salmon and Steelhead Hatchery.

TABLE A-2 Yearly Comparison of Fish Trapped at Iron Gate Salmon and Steelhead Hatchery July 1, 1965, through June 30, 1972.

TABLE A-3 Iron Gate Salmon and Steelhead Hatchery Weather, Water, and Fish Data Report, July 1, 1971, through June 30, 1972.

TABLE A-1

Marked steelhead Trapped at
Iron Gate Salmon and Steelhead Hatchery

Mark	Brood year	Number released	Date released	Size at release	Release site	Total this season	Total to date
Ad-LV	1968	73,330	6/69	12/1b	Iron Gate Hat.	658	841
Ad-RV	1968	36,524	5/69	9.8/1b	"	412	562
Ad	1967	25,688	5/68	8/1b	"	262	854
Ad-RM	1968	37,575	5/69	9.0/1b	"	2	5
Ad-IM	1968	35,954	5/69	9.1/1b	Happy Camp	1	14
IV-IV	1969	57,230	6/70	9.9/1b	Iron Gate Hat.	50	50
AN-IM	1967	49,935	11/68	3.8/1b	"	3	83

TABLE A - 2

Yearly Comparison of Fish Trapped at
Iron Gate Salmon and Steelhead Hatchery
July 1, 1965 through June 30, 1972

Species	July 1, 1965 through June 30, 1966	July 1, 1966 through June 30, 1967	July 1, 1967 through June 30, 1968	July 1, 1968 through June 30, 1969	July 1, 1969 through June 30, 1970	July 1, 1970 through June 30, 1971	July 1, 1971 through June 30, 1972
King Salmon							
Male	141	1,129	850	972	539	2,889	4,413
Female	224	1,610	1,275	1,714	474	7,395	6,033
Total Adults	365	2,739	2,125	2,686	1,013	10,284	10,526*
Grilse	313	325	562	78	1,917	219	315
Total	678	3,064	2,687	2,764	2,930	10,503	10,846*
Silver Salmon							
Male	2	2	27	14	84	716	74
Female	0	2	24	10	118	671	52
Total Adults	2	4	51	24	202	1,387	125
Grilse	0	0	28	333	749	236	21
Total	2	4	79	357	951	1,623	146
Steelhead							
Spring Trap					813	2,073	3,583
Fall Trap					381	292	174
Total Adults	227	299	984	370	1,194	2,365	2,757

* This total includes 80 king salmon trapped between June 12, 1972 and June 29, 1972.

TABLE A-3
 Iron Gate Salmon and Steelhead Hatchery
 Weather, Water, and Fish Data Report
 July 1, 1971, through June 30, 1972

uly	Temperature (Degree F)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon	Steelhead	
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	trout
1	82	48	56	54	clear		1			
2	78	46	57	54	clear					
3	87	45	56	54	clear					
4	89	45	56	55	clear					
5	89	44	56	54	clear					
6	79	44	57	54	clear	4				
7	89	48	57	54	pty cloudy					
8	86	47	56	54	pty cloudy					
9	78	54	56	54	cloudy					
10	74	38	56	54	pty cloudy					
11	79	41	56	55	clear	4	3			
12	83	44	56	55	clear					
13	90	45	56	54	clear					
14	100	50	56	55	clear					
15	103	55	56	55	clear	8				
16	100	60	56	54	clear					
17	102	60	56	55	cloudy					
18	90	65	56	55	cloudy					
19	100	58	56	55	pty cloudy					
20	98	58	57	54	pty cloudy					
21	99	60	57	54	pty cloudy					
22	99	62	57	54	pty cloudy					
23	100	58	57	54	clear					
24	98	54	57	54	clear					
25	98	55	56	54	clear					
26	102	55	57	55	clear					
27	102	55	57	55	clear					
28	102	58	56	55	clear					
29	104	58	57	55	clear					
30	102	58	57	55	pty cloudy					
31	102	58	57	55	clear					
Totals						16	4			

TABLE A-3 (Continued)

Date	Temperature (Degree F)		Water		Weather	Fish trapped			
	Air		Minimum			King salmon	Silver salmon	Steelhead	
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse
1	92	60	57	55	clear				
2	96	58	57	55	clear				
3	94	58	57	56	clear				
4	96	55	57	56	clear				
5	97	55	57	56	clear				
6	96	56	57	56	clear				
7	97	55	57	56	clear				
8	97	55	57	56	clear				
9	100	53	57	56	clear				
10	102	58	57	56	clear				
11	105	60	57	56	clear				
12	107	60	57	56	clear				
13	101	60	57	56	clear				
14	100	58	57	56	clear				
15	91	50	57	56	clear				
16	91	51	57	56	clear				
17	94	50	58	56	clear				
18	96	52	58	56	clear				
19	95	52	58	56	clear				
20	96	53	58	56	clear				
21	95	53	58	57	clear				
22	87	49	58	57	pty cloudy				
23	86	50	58	57	clear				
24	84	58	58	57	clear				
25	96	46	58	57	clear				
26	96	52	58	56	pty cloudy				
27	100	62	57	56	cloudy				
28	91	68	57	56	pty cloudy				
29	96	49	58	56	pty cloudy				
30	90	46	57	56	clear				
31	76	49	57	56	rain				
Totals	70	49	57	56	clear				

Aug.

TABLE A-3 (Continued)

Date	Temperature (Degree F)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	trout
Sept. 1	77	50	57	56	cloudy					
2	74	46	58	57	pty cloudy					
3	80	39	58	56	clear					
4	90	43	58	56	clear					
5	85	47	58	56	pty cloudy					
6	78	54	58	57	pty cloudy					
7	74	36	58	57	clear		2			
8	90	37	58	57	clear					
9	88	43	58	57	clear					
10	89	44	58	57	clear		2			
11	88	44	58	57	clear					
12	92	44	58	57	clear	27	1			
13	88	44	58	57	clear					
14	86	43	58	56	clear	38				
15	93	44	58	57	clear	19				
16	86	50	58	57	clear	26				
17	79	55	59	56	clear	22				
18	80	50	59	57	clear	13	1			
19	84	34	59	57	clear	10				
20	85	40	58	57	clear	20	1			
21	79	50	60	58	clear	49				
22	85	36	59	58	clear	71	5			
23	86	37	60	59	clear	125	2			
24	76	39	60	58	clear	157	7	1		
25	66	44	61	59	pty cloudy	163	7			
26	65	43	60	59	rain	240	4			
27	62	38	60	59	cloudy	413	9	1	1	2
28	60	42	60	59	rain	120	6			1
29	47	40	60	59	rain	178	4	3	1	2
30	52	39	59	59	cloudy	393	16	6		1
Totals						2,084	67	11	2	6

TABLE A-3 (Continued)

Date	Temperature (Degree F)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
Oct. 1	62	30	59	58	clear	367	14	6	1	2
2	75	32	58	57	clear	406	6	5		1
3	80	37	58	57	clear	450	10	3		
4	86	40	58	57	clear	392	11	10		1
5	87	38	58	57	clear	1,087	22	9	1	2
6	80	40	57	57	pty cloudy	799	15			3
7	87	40	58	57	clear	692	15	3		1
8	87	40	57	56	clear	919	21	3		6
9	87	43	57	56	clear	1,047	14	6		6
10	87	43	57	56	clear	667	9	1		
11	84	42	57	57	clear					
12	85	39	57	57	clear					
13	84	32	57	57	clear					
14	47	35	57	57	cloudy	250	5			
15	45	32	57	57	rain	346	23			10
16	50	28	57	57	pty cloudy	399	26			7
17	55	24	57	57	pty cloudy					
18	62	34	56	56	pty cloudy					
19	55	45	57	55	cloudy					
20	56	42	56	55	pty cloudy					
21	55	54	60	25	pty cloudy	120	11	2		23
22	66	28	54	53	pty cloudy	80			2	18
23	44	40	54	53	cloudy	223	24	4	5	24
24	66	32	53	52	cloudy					
25	62	28	53	52	fog					
26	60	28	52	52	cloudy					
27	43	34	52	51	snow					
28	45	17	52	50	clear	22	2		5	
29	52	20	51	49	clear					
30	40	34	50	49	cloudy	31	6	1		6
31	48	31	49	48	cloudy					
Totals						8,297	234	53	14	110

TABLE A - 3 (Continued)

Date	Temperature (Degree F)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	trout
Nov. 1	55	31	48	47	cloudy	40	10	8		8
2	55	22	48	46	clear					
3	59	21	47	45	clear					
4	60	21	46	45	cloudy					
5	54	21	45	45	clear	10		2	1	4
6	56	17	45	44	clear					
7	55	30	45	44	cloudy					
8	55	22	44	43	pty cloudy	4		4		1
9	51	45	44	43	rain			7	1	1
10	59	42	44	44	cloudy					
11	59	42	43	43	rain			4		
12	57	27	43	42	cloudy					
13	57	27	43	42	rain			3		1
14	56	28	43	42	rain					18
15	52	22	42	42	clear					12
16	54	21	43	42	clear					
17	52	18	43	42	clear					
18	54	32	42	42	pty cloudy					
19	57	22	42	42	clear			7		
20	62	23	42	42	clear					
21	60	30	42	41	cloudy					
22	50	28	42	41	cloudy					
23	48	32	42	42	cloudy			4		2
24	51	40	42	42	rain					
25	48	36	42	42	rain					
26	46	31	42	42	rain					
27	46	35	42	41	rain					
28	52	34	42	41	rain					
29	42	32	41	41	rain			12	1	4
30	46	33	41	42	clear					
Totals						54	10	51	3	51

TABLE A - 3 (Continued)

Date	Temperature (Degree F)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	trout
Dec. 1	47	15	42	42	cloudy					
2	48	37	42	41	cloudy			3	1	
3	42	28	42	41	snow					
4	39	27	42	41	snow					
5	50	27	42	41	rain			5		5
6	42	30	41	41	rain					
7	40	23	41	40	cloudy					
8	37	28	41	40	cloudy					
9	43	32	40	40	snow					
10	39	30	40	39	snow			2	1	2
11	38	20	40	39	snow					
12	40	25	39	39	cloudy					
13	42	27	39	39	cloudy					
14	42	28	39	38	cloudy					
15	40	26	38	38	cloudy					
16	42	19	38	38	clear					
17	42	18	38	38	clear					
18	43	17	36	36	clear					
19	43	16	37	36	clear					
20	37	14	37	36	clear					
21	44	20	37	36	cloudy					
22	45	34	38	36	rain					
23	43	27	38	36	cloudy					
24	42	27	37	36	rain					
25	40	14	36	35	cloudy					
26	38	21	35	35	cloudy					
27	39	30	35	34	clear					
28	37	14	35	34	cloudy					
29	40	28	35	34	snow					
30	42	23	35	34	pty cloudy					
31	42	19	35	35	clear					
Totals								10	2	7

TABLE A - 3(Continued)

Date	Temperature (Degree F)				Weather	King salmon		Silver salmon		Steelhead trout
	Air		Water			Adults	Grilse	Adults	Grilse	
	Maximum	Minimum	Maximum	Minimum						
Jan. 1	45	18	35	34	pty cloudy					
2	45	18	35	34	pty cloudy					
3	40	23	35	34	clear					
4	36	10	35	34	clear					
5	42	15	35	34	clear					
6	44	15	35	34	pty cloudy					
7	44	22	35	34	pty cloudy					
8	42	19	35	34	pty cloudy					
9	49	17	34	34	pty cloudy					
10	45	18	34	34	pty cloudy					
11	48	20	34	34	pty cloudy					
12	49	39	34	34	pty cloudy					
13	47	26	34	34	clear					
14	47	18	34	34	clear					
15	48	18	35	34	clear					
16	47	20	35	34	clear					
17	48	30	35	34	rain					
18	50	49	34	34	cloudy					
19	54	36	35	34	cloudy					
20	54	42	35	34	rain					
21	48	41	36	35	rain					
22	46	40	38	37	rain					
23	46	32	37	37	snow					
24	38	17	37	37	clear					
25	38	30	38	37	cloudy					
26	35	12	38	38	pty cloudy					
27	39	15	38	37	snow					
28	38	12	38	38	cloudy					
29	36	6	38	38	clear					
30	38	6	38	37	clear					
31	38	6	38	37	clear					
Totals										275 74 52

TABLE A-3 (Continued)

Date	Temperature (Degree F)				Weather	Fish trapped				Steelhead trout
	Air		Water			King salmon		Silver salmon		
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
Feb. 1	36	14	37	36	clear					9
2	30	8	36	36	clear					14
3	46	16	37	36	clear					
4	49	29	37	36	cloudy					5
5	54	30	37	36	cloudy					
6	56	30	37	36	clear					
7	55	30	36	36	clear					13
8	55	28	36	36	cloudy					
9	56	22	36	36	clear					
10	57	22	36	35	clear					
11	57	28	36	35	cloudy					14
12	59	24	37	36	cloudy					
13	57	36	37	36	cloudy					
14	52	28	37	36	cloudy					
15	50	30	38	37	rain					100
16	60	32	38	38	cloudy					43
17	61	30	39	38	clear					259
18	60	27	39	39	cloudy					
19	58	40	39	39	cloudy					197
20	58	38	40	38	pty cloudy					128
21	66	26	39	39	pty cloudy					102
22	51	32	40	40	rain					54
23	49	28	40	40	cloudy					101
24	48	28	40	40	cloudy					187
25	47	22	40	40	rain					159
26	59	35	41	40	cloudy					328
27	60	39	41	40	rain					
28	59	44	41	41	rain					265
29	48	33	41	41	cloudy					372
Totals										2,350

TABLE A - 3 (Continued)

Date	Temperature (Degree F)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
1	42	30	42	41	snow					71
2	50	30	42	42	rain					166
3	60	30	42	42	clear					60
4	64	40	41	41	pty cloudy					
5	67	36	41	41	pty cloudy					
6	65	35	42	42	pty cloudy					
7	68	28	43	42	clear					
8	74	28	43	43	clear					74
9	65	50	44	44	clear					
10	62	40	44	44	cloudy					
11	66	38	45	45	pty cloudy					
12	63	48	46	46	pty cloudy					
13	62	44	46	46	pty cloudy					
14	71	35	47	47	pty cloudy					
15	74	40	47	47	pty cloudy					
16	80	38	48	48	clear					195
17	80	40	49	48	clear					57
18	62	48	49	49	clear					42
19	65	32	51	50	clear					
20	68	28	51	50	clear					
21	68	36	51	51	cloudy					
22	44	40	52	51	cloudy					
23	64	33	52	51	rain					
24	58	40	51	51	pty cloudy					
25	54	23	52	51	snow					
26	47	28	51	50	pty cloudy					
27	54	20	51	50	clear					
28	56	23	49	49	pty cloudy					
29	62	22	49	48	clear					
30	70	28	47	47	clear					
31	63	30	47	47	cloudy					
Totals										832

TABLE A - 3 (Continued)

Date	Temperature (Degree F)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
April 1	56	32	47	46	rain					
2	68	33	46	46	cloudy					
3	69	34	46	46	cloudy					
4	70	46	47	46	cloudy					
5	70	45	47	47	cloudy					
6	60	41	48	48	cloudy					
7	58	36	48	48	cloudy					
8	57	31	49	49	cloudy					
9	57	26	50	49	cloudy					
10	58	26	49	48	cloudy					
11	54	35	49	48	rain					
12	50	37	49	48	rain					
13	51	31	50	48	rain					
14	62	27	49	48	clear					
15	69	31	49	48	clear					
16	56	36	49	49	clear					
17	52	20	50	49	clear					
18	64	23	50	49	clear					
19	70	28	50	49	clear					
20	72	29	50	49	clear					
21	64	29	49	49	clear					
22	50	48	50	48	clear					
23	73	28	49	48	cloudy					
24	65	32	49	48	cloudy					
25	58	32	50	50	cloudy					
26	72	30	50	50	cloudy					
27	80	32	50	50	cloudy					
28	74	37	50	50	cloudy					
29	54	28	51	50	clear					
30	67	25	50	50	clear					
Totals										

TABLE A - 3 (Continued)

Date	Temperature (Degree F)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	trout
May 1	78	35	51	50	clear					
2	83	38	50	50	clear					
3	80	39	50	50	clear					
4	82	41	50	50	cloudy					
5	82	42	50	50	cloudy					
6	70	38	50	50	rain					
7	52	42	50	50	rain					
8	66	39	50	50	clear					
9	68	32	50	50	clear					
10	69	33	50	50	clear					
11	78	33	50	50	clear					
12	89	33	50	50	clear					
13	90	40	50	50	clear					
14	89	44	50	50	clear					
15	82	42	50	50	pty cloudy					
16	75	38	50	50	rain					
17	75	44	50	50	rain					
18	56	35	50	51	pty cloudy					
19	71	40	50	50	pty cloudy					
20	60	44	50	50	rain					
21	58	42	50	50	rain					
22	65	46	50	50	pty cloudy					
23	69	40	50	51	pty cloudy					
24	76	34	50	51	pty cloudy					
25	81	38	51	50	clear					
26	88	40	51	50	clear					
27	93	53	50	50	clear					
28	96	50	50	50	clear					
29	90	52	51	50	pty cloudy					
30	90	46	51	50	clear					
31	82	62	51	50	clear					
Totals										

TABLE A - 3 (Continued)

Date	Temperature (Degree F)				Weather	Fish trapped				
	Air		Water			King salmon		Silver salmon		Steelhead trout
	Maximum	Minimum	Maximum	Minimum		Adults	Grilse	Adults	Grilse	
June 1	86	46	51	50	clear					
2	87	46	51	50	pty cloudy					
3	85	46	51	50	pty cloudy					
4	82	44	51	50	clear					
5	96	50	51	50	pty cloudy					
6	92	55	51	50	rain					
7	86	53	51	50	rain					
8	82	50	51	50	rain					
9	75	42	50	50	rain					
10	62	40	51	50	rain					
11	72	34	51	50	clear					
12	80	38	51	51	clear	3				
13	83	39	51	51	clear					
14	85	38	50	50	clear					
15	83	50	51	50	clear					
16	77	48	51	50	pty cloudy					
17	84	44	51	50	clear					
18	85	46	51	50	clear					
19	89	46	51	50	clear					
20	86	46	52	51	clear					
21	86	45	52	51	clear					
22	88	44	52	51	clear	7				
23	72	43	52	51	clear	50				
24	74	40	52	50	clear	6				
25	78	42	52	51	clear					
26	84	42	51	50	clear	11				
27	83	50	52	50	clear	2				
28	97	52	52	50	clear	1				
29	93	54	52	50	clear					
30	95	54	52	50	clear					
Totals						80				
GRAND TOTALS						10,531	315	125	21	3,757