PEF 90164

# State of California The Resources Agency DEPARTMENT OF FISH AND GAME

ANNUAL REPORT FEATHER RIVER SALMON AND STEELHEAD HATCHERY 1972-73

by

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Anadromous Fisheries Branch
Administrative Report No. 76-5

# ANNUAL REPORT FEATHER RIVER SALMON AND STEELHEAD HATCHERY 1972-73

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### **ABSTRACT**

This report describes the operation of Feather River Hatchery from July 1, 1972 through June 30, 1973. Tables present the numbers of adult salmon and steelhead received, fish produced and planted, records of marked fish observed, and water temperature and flow data.

<sup>1/</sup> Anadromous Fisheries Branch Administrative Report No. 76-5 Submitted for publication August 1975.

#### INTRODUCTION

This report describes activities of Feather River Hatchery, during its sixth year of operation, July 1, 1972 to June 30, 1973.

The hatchery is located near the upper Thermalito Bridge in Oroville, California, and was constructed by the California Department of Water Resources as part of the California Water Project to compensate for loss of spawning area above Oroville Dam. It is operated by the Department of Fish and Game with funds provided by the Department of Water Resources.

#### PRODUCTION SUMMARY

Spring-run king salmon were first allowed to enter the hatchery on September 6, 1972. The first fall-run king salmon arrived at Feather River Hatchery on October 4, 1972. Steelhead trout were trapped from December 5, 1972 to March 7, 1973.

Production data are summarized as follows:

Table 1
Production Summary, 1972-73 Season

0/	Adults		Eggs				Estimate
Species/	trapped	Females		Fish	Fish plan	ted	on hand 🧸
brood year	or received	spawned	received :	received	fingerlings	yearlings	6/30/73
Fall-run KS							
1971 BY					548,355	682,988	0
1972 BY	3,635	717	4,015,200		956,315	,	800,000
Nimbus:	•				,		,
1972 BY			5,320,120 <u>a</u>	/	3,837,575		283,000
Trinity:			- , ,		-,,-		200,000
1972 BY				9,920b/	o o	0	<u>b</u> /
Spring-run	KS			<del>/=</del>	<del></del>	<del></del>	
1971 BY						167,605	0
1972 BY	256	90	504,000			50,000	206,385
Winter-run				<del></del>			
1973 BY	149 <u>c</u> /						
Steelhead						· · · · · · · · · · · · · · · · · · ·	
Domestic 19	71 BY					960	1,875
Domestic 19	72 BY				595,700	181,735	0
Domestic 19	73 BY	247	672,165		,	<b>,</b>	608,275
Wild 1972 B	Y		,			63,350	0
Wild 1973 B	Y 1,000	302	1,301,610			22,200	997,725
Domestic 67			, _,			95	0

A Received as eyed eggs.

Received as fry for SRCD test; those surviving into the 1973-74 season were destroyed.

Adult fish were put into spawning channel.

### VISITOR USE

During the 1972-73 fiscal year, 112,493 people visited this installation. In addition, 4,429 people were conducted through the hatchery on organized tours.

#### MARKING PROGRAMS

The Anadromous Fisheries Branch marked 401,285 1972 broodyear king salmon (from eggs received from Nimbus Hatchery). The purpose of marking these fish was to test the efficiency of the Tracy Trapping Facility. The fish were marked with an Ad fin clip in combination with coded wire tags (Table 2). These releases are also included in Appendix Table 1.

Table 2
Tracy Tests King Salmon Release Data

Date of release	Area released	Size	Number
4/19/73	San Joaquin River at Antioch	3.7 g	50,000
4/20/73	San Joaquin River at Antioch	3.7 g	50,000
4/26/73	Tracy holding facility	3.7 g	50,000
4/27/73	San Joaquin River at Antioch	3.7 g	50,000
5/ 3/73	Tracy Fish Facility	3.4 g	50,050
5/ 4/73	San Joaquin River at Antioch	3.4 g	50,085
5/14/73	Tracy Fish Facility	3.7 g	50,750
5/15/73	San Joaquin River at Horshoe Bend	3.8 g	50,400
TOTAL			401,285

A total of 60,000 1972 broodyear steelhead were marked and released to compare the returns of domestic and wild fish (Appendix Table 2).

### KING SALMON MAINTENANCE PROGRAM

### Spring Run

# History of the 1972 Broodyear Spring Run

The fish ladder was opened on September 6, 1972 to allow the spring-run king salmon adults to enter the hatchery. We received 256 spring-run fish between September 6 and October 1, 1972. The surviving spring-run adults were sexed on October 6, 1972. At that time we had 116 females and 128 males on hand.

Of the 116 females, we successfully spawned 90, September 4 through October 18, 1972. The spawning yielded 504,000 eggs, for an average of 5,600 eggs per female. We transferred 474,920 fingerlings to the ponds, for an average fertility rate of 94%. A total of 218,535 fish succumbed to SRCD. In June, 1973, 50,000 fish were planted at an average size of 11.2 g/fish (40/lb) (Appendix Table 1).

An estimated 206,835 remained on hand June 30, 1973. They will be planted as yearlings next season.

# 1971 Broodyear Spring Run

On June 30, 1972 an estimated 324,465 spring run 1971 broodyear king salmon remained in the hatchery. Of these, 167,605 survived to be planted between November 2, 1972 and February 16, 1973, at an average weight of 88 g/fish (5.2/lb) (Appendix Table 1).

#### Fall Run

### 1972 Broodyear Fall Run

The first fall-run king salmon entered the hatchery on October 4, 1972 and the last was received on January 6, 1973. The season total was 3,635 (1,387 adults and 2,248 grilse). A total of 717 females was spawned this season, (October 5, 1972 through January 10, 1973) and 4,015,200 eggs were taken, averaging 5,600 eggs per female. Fry production was 3,447,000 (86% hatching). An estimated 1,689,000 fry succumbed to SRCD. Between April 22, 1973 and June 25, 1973, a total of 956,315 fish was planted averaging 6 g/fish (Appendix Table 1). On June 30, 1973, an estimated 800,000 remained on hand.

# 1972 Broodyear Fall Run (Nimbus)

A total of 5,320,120 eyed eggs was received from Nimbus Hatchery between December 6, 1972 and January 23, 1973. An estimated 1.2 million fish were lost to SRCD between March 1, 1973 and June 30, 1973. A total of 3,837,575 fish was planted between March 15, 1973 and June 18, 1973, at an average size of 3.7g/fish (Appendix Table 1) on June 30, 1973. An estimated 283,000 remained on hand.

# 1972 Fall Run (Trinity)

A total of 9,920 fall-run 1972 broodyear fry was received from Trinity Hatchery March 23, 1973. These fish were transferred to Feather River Hatchery to see if they would contract SRCD. The Trinity fish did contract the cold-water virus. None were ever planted. Those surviving into the 1973-74 season were destroyed to prevent any spreading of the disease.

#### Winter Run

From February 7 through March 8, 1973, 149 winter-run adults (118 males and 31 females) entered the hatchery. Eleven males were killed. All remaining fish were placed in the spawning channel. No attempt was made to determine the subsequent production of fingerlings.

### Planting, 1971 Broodyear King Salmon

On July 1, 1972, we had an estimated 1,373,090 1971 broodyear fall-run king salmon on hand. A total of 1,195,543 fish survived to be planted between July 31, 1972 and February 14, 1973 (Appendix Table 1).

### Recovery of Marked King Salmon

All king salmon entering the hatchery were examined for marks. We observed a total of 86 marked fish (Appendix Table 3). All marked fish were measured (Appendix Table 4).

#### STEELHEAD MAINTENANCE PROGRAM

# History of the 1973 Brood Year (Wild)

Steelhead were not counted or held until December 4, 1972. From December 4, 1972 through January 22, 1973, marked and tagged fish were counted, and the numbers by mark recorded as the fish entered the hatchery. Fish spawned and released, or dying, during this period, were not measured.

On January 23, all adults remaining on hand were inventoried and measured. All steelhead entering the hatchery after January 23 were measured as they were examined for marks. We observed 260 finmarked steelhead (Appendix Table 5) and 42 tagged fish.

Lengths appear in Appendix Table 6.

The total run, from December 4, 1972, through March 8, 1973, was 1,000 fish: 455 males and 545 females. We spawned 300 females (Table 3) for a total of 1,301,610 eggs. We transferred 1,204,980 fingerlings to the ponds, for an egg-to-fingerling survival rate of 93%. None were planted this season. An estimated 997,725 remained on hand June 30, 1973.

Table 3
Steelhead Spawning Data

		Domestic fish (Brood Stock)					
Date	Fish spawned M F	Date	Fish spawned M F	Date	Fish spawned M F	Date	Fish spawned M F
12/26/72 1/ 3/73 1/ 8 1/12 1/15 1/17 1/19	3 7 4 12 5 9 6 11 9 17 3 4 10 24	1/23/73 1/24 1/26 1/29 1/31 2/ 7 2/14	8 20 9 24 5 5 5 10 21 53 8 37 6 11	2/16 2/22 2/23 2/28 3/5	7 25 8 11 3 4 4 7 4 11	12/27/72 1/ 3/73 1/10 1/17 1/24 1/31 2/ 4 2/14	12 58 15 48 80 48 7 26 12 33 6 14 6 11 5 9

# Brood Stock Spawning

A total of 672,165 eggs was taken from 247 domestic steelhead females (steelhead hatched and reared at the installation). A total of 668,385 fish were transferred to the ponds for an egg-to-fingerling survival rate of 99.4%. A total of 608,275 fish remained on hand on June 30, 1973. The brood stock adults (1,875) were held for spawning next season.

### STEELHEAD PLANTING

# Brood Stock Planting

We planted 95 1967 through 1968 broodyear adult fish and 960 1971 broodyear adult fish in August and September, 1972 (Appendix Table 2). The fish were planted because we had a surplus of brood stock fish at that time.

# 1972 Broodyear (Wild) Planting

We planted 12,425 wild 1972 broodyear fish in October 1972, averaging 6.3g/fish, and 50,925 in February and March, 1973 at sizes ranging from 86.1 to 89.6 g. Sixty thousand of these fish were marked (Appendix Table 2).

# 1972 Broodyear (Domestic) Planting

In July, 1972 we released 595,700 1972 broodyear domestic fingerlings at an average size of 2.5 g (182/lb). From October, 1972 through March, 1973 we planted 181,735 1972 broodyear domestic yearlings at sizes ranging from 6.8 to 89.6 g (67-5/lb) (Appendix Table 2).

- 7 -Appendix Table 1

Feather River Hatchery King Salmon Planting Data, 1972-73 Season

	Date	Average	Number	
Race and brood year	released	size (g)	released	Release site
Spring-run king	11/ 2/72	44.8		
salmon 1971	11/ 3/72	44.8	21,000 22,000	Feather River at Yuba City
brood year	11/15/72	63.8	36,400	11
	12/ 6/72	74.5	21,600	11
	1/30/73	106.4	4,200	11
	2/ 1/73	112.0	9,800	11
	2/ 6/73	101.6		 <b>11</b>
			5,280	
	2/8,9/73 2/8,9/73	99.4 101.6	4,500	
			5,280	
	2/8,9/73	104.2	10,320	11 ••
	2/13/73	99.4	10,800	11
	2/14/73	99.4	10,800	11
TO TAT	2/16/73	99.4	5,625	- ************************************
TOTAL			167,605	
Spring-run king salmon 1972				
	/ /3 o /ao	77.0	<b></b>	
brood year	6/19/73	11.2	50,000	. <b>11</b>
TOTAL	5 (03 (50		50,000	
Fall-run king	7/31/72	19.6	14,375	Sacramento River at Rio Vista
salmon 1971	8/ 1/72	3.6	20,400	11
brood year	8/ 2/72	19.6	13,800	ii ~
	8/ 4/72	20.7	13,200	11
	8/24/72	31.2	9,800	11
	8/30/72	30.3	12,000	11
	8/31/72	28.3	12,800	. **
	9/ 6/72	30.3	12,000	11
	9/ 6/72	34.9	10,400	11
	9/ 7/72	31.2	11,200	11
	9/ 8/72	31.2	49,700	Feather River at Yuba City
	9/11/72	31.2	28,000	n
	9/12/72	26.6	17,000	11
	9/12/72	21.5	40,950	11
	9/12/72	30.3	15,000	11
	9/13/72	30.3	28,200	11
	9/15/72	14.2	76,800	17
	9/18/72	15.6	92,800	11
	9/19/72	12.5	69,930	11
	10/12/72	26.6	68,000	11
	10/12/72	23.8	38,000	15
	10/13/72	24.9	72,000	11
	10/17/72	18.4	72,000	tt
	10/18/72	44.8		11
	10/18/72		10,000	 tt
	10/13/ <i>16</i>	44.8	19,000	n
	10/25/72	63.8	14,000	
	10/25,26/72	41.1	22,000	11 
	10/26/72	63.9	14,000	
	10/27/72	56.7	8,400	11

(continued on next page)

# Appendix Table 1 (continued)

Race and brood year	Date released	Average size (g)	Number released	Release site
nace and brood year				
	10/27/72	63.9	7,700	Feather R. at Yuba City
	10/30/72	56.6	8,000	;; 11
	10/31/72	63.9	22,925	11
	11/9-15/72	56.7	65,573	 11
	11/17/72	50.2	18,600	 tt
	11/20/72	63.8	23,400	 !!
	11/28/72	63.8	27,000	11
	11/29/72	63.8	13,000	11
	12/ 1/72	82.6	11,000	tt .
	12/ 4/72	82.6	17,900	11
	12/8-12/72	74.5	56,850	11
	12/13/72	74.5	24,900	it .
	12/20/72	68.1	9,350	tt
	2/1-5/73	112.0	15,250	11
	2/7,8/73	112.0	9,440	11
TOTAL	2/14/73	112.0	15,200	•
	4 /05 /79	F 0	682,988	11
Fall-run king	4/25/73	5.0	228,000	
salmon 1972	4/30/73	0.7	45,600	Feather River at Gridley
brood year	5/ 3/73	5.4	46,200	Feather River at Yuba City
	5/ 7/73	5.9	31,570	
	5/ 7/73	6.2	75,920	11
	5/ 8/73	5.9	138,600	
	5/29,30/73		78,000	Sacramento River at Rio Vist
	6/5-7/73	7.7	155,700	11
	6/20/73	5.9	45,600	11
	6/21-27/73		74,750	11
TOTAL	6/25/73	6.0	36,375 956,315	-
Fall-run king	3/15/73	0.9	456,000	Feather River Hatchery
salmon 1972	3/15/73	1.2	402,960	reacher River natchery
brood year	3/21/73	0.04	886,080	tt .
(Nimbus strain)	4/19/73*	3.7	50,000	
(Himous Sciain)	4/20/73*	3.7		San Joaquin, Tracy
	4/25/73	1.4	50,000	Toothon Divon Vaho Cides
	4/26/73*		252,000	Feather River, Yuba City
	4/27/73*	3.7 3.7	50,000	
	4/30/73	0.8	50,000 25,200	
	5/ 3/73*	3.4	50,050	· · · · · · · · · · · · · · · · · · ·
	5/ 4/7 <b>3*</b>	3.4	•	San Joaquin, Tracy
	5/ <b>14/73*</b>	3.4	50,085	San Joaquin R. at Antioch
	5/15/73*		50,750	San Joaquin, Tracy
		3.8	50,400	San Joaquin R. at Horshoe Bend
	6/ 8/73 6/11/73	4.4	192,400	Feather R., Yuba boat ramp
		4.4	509,850	11
	6/13/73 6/13/73	3.1	338,400	11
	6/13/73 6/14/73	5.1	133,300	
	6/14/73 6/15/72	5.8	105,000	Rio Vista, Sacramento River
	6/15/73	4.4	72,100	11
TOTAL	6/18/73	5.4	63,000	•
TOTUTI			3,837,575	

<sup>\*</sup> Marked Ad in combination with a coded wire tag (see p. 3).

Appendix Table 2
Feather River Hatchery Steelhead Planting Data, 1972-73

		verage	Number		
Race and brood year		size	released	Release	site
	Brood	Stock Pl	anting		
1967 & 1968 brood years	9/12/72	2.6 kg	95	Feather	River
1971 brood year	8/22/72	716.9 g	960	Feather	River
	1972 Bro	od Year (	Domestic)		
	7/24-27/72		595,700	Feather	River
	10/ 5/72	6.8 g	13,000	11	
	10/13/72		7,700	11	
	10/18-19/72			:1	
	1/23-26/73		36,000	11	
	1/24/73		7,000	*1	
	1/29/73	74.6 g	6,600	11	
	3/ 1/73	87.8 g	2,805	fT	
	3/6,7/73	87.8 g	12,360	**	
	3/13/73		14,200	11	
	3/14,15/73		40,250 <u>a</u> /	11	
TOTAL		J	777,435		
	1972 B:	rood Year	(Wild)		
	10/ 4/72	6.3 g	12,425	11	
	2/28/73		10,920	11	
	3/1,2/73		14,765 <u>a</u> /	11	
	3/ 7/73	86.1 g	6,240 <u>a</u> /	11	
	3/13/73	89.6 g	19,000 <u>a</u> /	11	
TOTAL	0/10/70	07.0 g	63,350		
		· <del>-</del> ···-	00,000	<del></del>	<del></del>

Each of these groups contains marked fish: 30,000 domestic fish were marked Ad-LV-RP and 30,000 wild fish were marked Ad-RV-LP to compare returns of the two types.

Appendix Table 3

Marked King Salmon Recovered at Feather River Hatchery
1972-73 Season

			Releas	e data			
Mark_	Brood year	Number recovered	Area	Size	Date	Number released	Origin
Ad Ad Ad	1968 1969 1970	1	American R. at Nimbus Hatch. American R. at Nimbus Hatch. American R. at Nimbus Hatch.	0.4g swim-up 0.4g	March 1969 April 1970 March 1971	250,560 257,900 250,900	Fall run-Nimbus Hatchery
Ad-RP Ad-RP		4 4	Feather River Hatchery Sacramento R. at Red Bluff	15cm 37-40mm	January 1969 October 1970	56,400 109,000	Feather River Hatchery Winter-run wild fish
Ad-RV Ad-RV Ad-RV	1969	22	Sacramento R. at Rio Vista Sacramento R. at Rio Vista Sacramento R. at Rio Vista	5g 5g 5g	AprAug. 1969 May 1970 March 1971	321,000 327,000 367,869	Fall-Run Coleman Hatchery Fall Run Coleman Hatchery Fall Run Coleman Hatchery
An-LP* An-LP*		31 8 {	½ at Feather River Hatchery,	18cm 18cm	June 1971 December 1971	40,000 120,000	Fall Run-Feather R. Hatch. Fall Run-Feather R. Hatch.
An-RP	?	1	?	?	?	?	?
LV-LP	?	1	?	?	?	?	?
LP	?	2	?	?	?	?	?
RP	?	12	?	?	?	?	?

<sup>\*</sup> Coded wire tag in conjunction with a multiple-fin mark.

Appendix Table 4

Fork Lengths (to Nearest Inch) of Marked King Salmon Trapped at Feather River Hatchery, 1972-73 Season

FL (inches)         Ad-RV M F         Ad-RP M F         An-LP M F         RP M F         FL (inches)           14 15 28         3 2	
14     3     An       15     28       16     1     2       17     3     2     An       18     1     3     18       19     3     18       20     1     1     LV       21     33     33       22     2     1     1     L       23     1     1     L     19	0
15 16 1	Sex
15 16 1	l
16     1     2       17     3     2     And       18     1     3     18       19     3     1     LV       20     1     1     LV       21     33     33       22     2     1     1     L       23     1     L     19	F
17 3 2 And 18 1 3 18 19 3 2 18 19 20 1 1 1	•
18     1     3     18       19     3     3       20     1     1     LV       21     33       22     2     1     1       23     1     1     L       24     1     19	RP.
21 22 2 1 1 23 1 <u>L</u> 24 1 1	M
21 22 2 1 1 23 1 <u>L</u> 24 1 1	••
21 22 2 1 1 23 1 <u>L</u> 24 1 1	-LP
22 2 1 1 23 1 24 1 1	M
23 1 <u>L</u> 24 1 19	
	)
	M
26 1 4 27 4	M
27 4	
28 1 1 1	
29 1 5 2	
30 2 4 1	
31 1 2 1	
30 2 4 1 31 1 2 1 32 1 2 1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
34 2 35 1 2 36 1 1	
36 1 1	
37	
38	
39 1 40 1	
unmeasured	
TOTALS BY	
SEX 12 10 7 1 34 5 11 1	
TOTALS 22 8 39 12	

Appendix ( le 5

Marked Steelhead Recoveries, Feather River Hatchery, 1972-73 Season

. 1	Brood	Number		Average	) Date	Number released	Origin
Mark	year	recovered	Area	size(g	) Date	Гетеазеа	OLIGIN
Ad	1970	163	Feather River at Gridley Bar	57	March 1971	50,200	Feather River Hatchery
Ad-LP	1969	7	Battle Creek	61	FebApr. 1970	119,036	Coleman National Fish Hatch
Ad-LP	1970	<b>ነ</b> 1	Battle Creek	60	FebApr. 1971	213,698	Coleman National Fish Hatch
Ad-LP	1971	J	Battle Creek	45	JanFeb. 1972	201,706	Coleman National Fish Hatch
Ad-LV	1969	<b>1</b>	Sacramento River at Clarksburg	72	March 1970	25,200	Nimbus Hatchery
Ad-LV	1969	<b>}</b> 2	Three-mile Slough-Brannon Is.	91	March 1970	980	Mokelumne R. Fish Install.
Ad-LV	1970	}	Three-mile Slough-Brannon Is.	57	November 1970	9,000	Mokelumne R. Fish Install.
Ad-RP	1969	)	Sacramento R. at Rio Vista	59	FebApr. 1970	118,186	Coleman Nat'l. Fish Hatch.
Ad-RP	1970	<b>}</b> 19	Sacramento R. at Rio Vista	57	FebApr. 1971	211,652	Coleman Nat'l. Fish Hatch.
Ad-RP	1971	J	Sacramento R. at Rio Vista	46	February 1972	201,785	Coleman Nat'l. Fish Hatch.
Ad -RV	1969	)	Sacramento R. at Rio Vista	76	March 1970	25,000	Nimbus Hatchery
Ad-RV	1969	} 3	Mokelumne RNew Hope Landing	91	March 1970	980	Mokelumne R. Fish Install.
Ad-RV	1970	)	Mokelumne RNew Hope Landing	57	November 1970	6,000	Mokelumne R. Fish Install.
An	?	1	?	?	?	?	?
An-LP	?	1	?	?	?	?	?
LV	1968	<b>1</b>	Three-mile Slough-Brannon Is.	48-67	March 1969		Mokelumne R. Fish Install.
LV	1969	l	Three-mile Slough-Brannon Is.	83	March 1970	42,972	
LV	1970	22	Three-mile Slough-Brannon Is.		JanMar. 1971	45,452	
LV	1970	J	Feather River at Gridley Bar	30	March 1971	49,500	Feather River Hatchery
LV-RP	1971	1	Sacramento River at Clarksburg	72-86	February 1972	40,232	Nimbus Hatchery
RV-LP-R	RP ?	1	?	?	?	?	?
LP	1969	`	Sacramento River at Clarksburg	53	March 1970	18,700	Nimbus Hatchery
LP	1970	<b>\</b> 5	Sacramento River at Clarksburg		April 1971	60,170	<del>_</del>
LP	1971	}	Sacramento River at Clarksburg		March 1972		Nimbus Hatchery
LV-LP	?	1	?	?	?	?	?
LP-RP	?	l	?	?	?	?	?
RV	1969		Mokelumne RNew Hope Landing	89	March 1969		Mokelumne R. Fish Install.
RV	1970	•	Mokelumne RNew Hope Landing	68	January 1971		Mokelumne R. Fish Install.
RP 💰	1969	9	American & Sacramento Rivers	$14^{\circ}_{\ell}$	JunJul. 1970	12,780	Nimbus Hatchery

Appendix Table 6

Fork Lengths (to Nearest Inch) of Steelhead Trapped at Feather River Hatchery, 1972-73 Season

Sex	[i-	Z F	-4	W	Z:	Σ	Ľij				Σ		ŗ	4 Z		بت	(	ندا بن	Z Z	r z		
Miscellaneous marks	20	24	7.7	21	22	7.7.	21	$(1^*)$	(1*)		7.7	(1*)	ć	23 19	(3*)	25	, ,	16 20	18 23	22		$(2^*)$
Mark	Ad-LP	Ad-LV	Ad-LV	Ad-RV	Ad-RV	Ad-RV	An	An-I.P	LV– $LP$		LV-RP	RV-LP-RP	(	<u>.</u>	: Ci	T,P_RP		 % &	RP RP	RP	Υ. P.	αa
RV M F				2		1 2			근 근	-H	-	 				רר 14	ů,	30				
N F						പ გ	7	7 5 7		1 1						וו	2*	22	nnsexed.			
Ad-RP M F			٦			က	1 2		_	ı							° *11	19	성			
Ad M F		1	<b>~</b>		J	2	ر ا	ч ч	4 4 5 5 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8			8 I0 7 I		٦.		1 2	50 T03	163	fish unmeasured			
Unmarked M F	12 1	14 2 15 3 1	Ä	17 7 2 18 12 8	13	128	6	23 14 22 24 21 16	18	53 23	25	26 18				fish	247 330	TOTAL 740	Jo.			

Append Table 7
Feather River Salmon and Steelhead Hatchery
Weather, Water, and Fish Data Report
July 1, 1972 through June 30, 1973

		Temperatu	re (C)		· <del></del>	Fish Trapped
	Ai		Wat	er		
July	Maximum	Minimum	Maximum	Minimum	Weather	
1	37.2	18.9	17.2	16.7	Clear	
2	31.1	14.4	16.7	16.1	Clear	
3	34.4	12.2	16.7	15.6	Clear	
4	34.4	13.9	16.1	15.6	Clear	
5 6	31.1	15.0	16.7	16.1	Clear	
6	31.1	11.1	16.1	16.1	Clear	
7	30.0	11.1	<b>1</b> 6.1	16.1	Clear	
8	31.1	11.7	16.7	16.1	Clear	
9 10	30.6	13.3	16.7	16.1	Clear	
10	32.2	13.3	16.7	14.4	Clear	
11 12 13 14	36.1	14.4	14.4	13.9	Clear	
12	39.4	17.8	14.4	13.3	Clear	
13	41.1	18.9	13.9	13.3	Clear	
14	43.3	17.8	14.4	13.3	Clear	
15 16	41.7	21.1	15.0	14.4	Clear	
16	32.2	16.7	14.4	13.9	Clear	
17	31.7	15.6	14.4	13.3	Clear	•
18	27.8	15.6	15.0	14.4	Clear	
19	24.4	12.2	15.0	14.4	Clear	
20	22.2	10.6	15.6	13.9	Clear	
21	26.7	11.1	15.6	14.4	Clear	
22	29.4	12.8	16.1	15.6	Clear	
23	28.9	12.2	16.1	14.4	Clear	
24	30.0	11.1	15.0	13.9	Clear	, , , , , , , , , , , , , , , , , , ,
25 26	32.2	11.1	15.6	14.4	Clear	
26	35.6	14.4	16.1	15.0	Clear	
27	<b>38.</b> 9	16.1	16.7	15.0	Clear	
28	34.4	15.6	16.7	16.1	Clear	
29	. 34.4	15.6	16.7	<b>1</b> 6.1	Clear	•
30 31	35.6	11.7	16.7	16.1	Clear	
31	31.1	13.9	16.7	15.6	Clear	

14.

•						Fish trapped
		Temperatu		^ <del></del>		
	Al		Wai			
August	Haximum	Hinimum	Maximum	Minlmin	Weather	
1	38.3	14.4	17.2	16.1	Clear	
2	38.3	13.3	17.2	16.1	Clear	
3	32.2	13.9	17.2	16.1	Clear	
Ĩ4	37.8	12.2	17.2	16.1	Clear	
5	43.3	22.2	16.7	16.1	Clear	
5 6	43.0	21.1	16.7	16.7	Clear	
7	35.0	15.1	16.7	15.6	Clear	
Ė	34.4	15.6	16.1	15.0	Clear	
9	34.4	15.3	16.7	15.6	Clear	
.1ó	<b>33.</b> 9	16.7	16.7	15.0	Clear	
11	32.2	15.6	16.1	15.6	Clear	
12	30.0	11.7	17.2	16.1	Clear	
13	26.7	12.2	17.2	17.2	Clear	
14	23.9	12.2	17.2	15.0	Clear	
15	22.2	11.1	15.0	13.3	Cloudy	
16	20.0	11.1	14.4	13.3	Cloudy	· ·
17	26.7	10.0	15.0	14.4	Clear	
18	26.7	12.2	15.0	14.4	Clear	
19	25.6	11.1	15.0	14.4	Clear	
20	28.3	12.2	15.0	14.4	Clear	
21	32.2	12.2	15.6	15.0	Clear	
22	33.3	13.3	15.6	15.0	Clear	
23	34.4	13.3	15.6	15.0	Clear	
23 24	32.2	12.8	15.6	15.0	Clear	•
25	36.7	.14.4	16.1	15.0	Clear	
25 26	37.2	13.3	16.1	16.1	Clear	
27	32.2	14.4	16.1	16.1	Clear	
28	30.0	14.4	16.1	15.0	Cloudy	
29	32.8	17.2	16.1	15.6	Clear	
30	34.4	16.7	16.1	13.3	Clear	
30 31	33.9	15.6	13.3	11.7	Clear	

į,

						Fish trapped
		Temperatu	re (C)			King_salmon
	Ai	r	Wat	er	<del></del>	Spring run
Septembe	rilaximum	Hinimum	Maximum	Minimum	Weather	Adults Grilse
1	33.3	13.3	13.3	11,7	Clear	
2	27.8	13.3	13.3	12.8	Clear	
3	31.1	11.7	13.3	12.8	Clear	
4	25.6	13.9	13.3	13.3	Cloudy	
1 2 3 4 5 6 7 8	27.8	15.6	13.9	12.2	Clear	
6	30.0	13.3	13.9	13.3	Clear	83
7	30.0	12.2	13.3	12.2	Clear	43
	30.0	10.6	12.8	11.1	Clear	
9	26.7	10.6	12.8	12.8	Clear	
10	22.2	7.8	13.3	<b>1</b> 2.8	Clear	
11	24.4	11.1	12.8	10.6	Clear	
13	26.7	10.0	10.6	10.0	Clear	
13	28.9	8 <b>.9</b>	11.1	10.6	Clear	
14	28.9	10.0	11.1	10.0	Clear	
15 16	26.7	10.0	11.1	10.0	Clear	
16	25.6	7.8	10.6	10.6	Clear	
17	22.2	8.3	11.1	10.6	Clear	
18	24.4	11.1	10.6	10.0	Clear	
19	22.8	10.0	10.6	10.0	Clear	•
20	27.2	8.3	11.1	10.0	Clear	
21	28.3	13.3	11.7	11.1	Clear	
55	27.2	13.3	11.1	10.0	Clear	
23 24 25 26	23.3	6.7	11.1	10.6	Clear	
24	23.3	5.0	11.7	10.6	Clear	
25	17.8	8.3	11.1	10.0	Clear	36
26	26.1	12.2	11.7	10.6	Rain	27
27 28	55.5	11.1	12.2	11.1	Clear	20
28	25.6	8.9	11.7	11.1	Clear	
	28.9	8.9	11.7	11.7	Clear	
30	26.7	11.7	12.2	11.7	Cloudy	
Total Se	eptember	<del></del>		~~~ <del>~~~~~</del>	<del>~~~~~~~~</del>	166

		M * *	· · /a\						Fish	trapped
	Ai	Temperatu			<del></del>		King e			
	Hoximum	Kinimum	Wat Maximum		Unathau		11 run		ng run	
October .	PIS.XXIIICIII		Maximum	Minimum	Weather	Adult	B Grilse	Adults	Grilse	
1	21.1	9.4	17.2	16.1	Cloudy					
2	27.2	10.0	17.2	16.1	Clear			67		
3	24.4	10.6	17.2	16.1	Clear					
4	21.1	09.4	17.2	16.1	Clear	23	6			
5 6	28 3	9.4	16.7	16.1	Clear					
6	30.0	16.7	16.7	16.7	Clear	23		23*		
7 8	26.7	11.7	16.7	15.6	Cloudy					
	21.1	11.1	16.1	15.0	Cloudy					
9	17.8	11.1	16.7	15.6	Rain					
10	16.7	11.1	16.7	15.0	Rain	505	155			
11	16.1	5.6	16.1	15.6	Rain	50	39			
12	16.7	6.7	17.2	16.1	Cloudy					
13	20.0	8.9	17.2	17.2	Rain	61	71			
14	15.6	10.0	17.2	15.0	Rain					
15	17.2	10.0	15.0	13.3	Cloudy					
16	15.6	6.7	14.4	13.3	Cloudy	143	254			
17	19.4	12.8	15.0	14.4	Cloudy	14	25			
18	20.6	8.3	15.0	14.4	Rain	27	43			
19	15.6	6.7	15.0	14.4	Clear .					
20	18.3	10.0	15.0	14.4	Clear	81	208			
21	18.3	8.3	15.6	15.0	Clear					
22	19.4	9.4	15.6	15.0	Clear					
23	22.2	7.2	15.6	15.0	Clear					
24	18.9	7.2	15.6	15.0	Clear	30	151			
25 26	19.4	7.8	16.1	15.0	Clear	31	116			
26	20.0	10.6	16.1	16.1	Clear	21	105			
27	25.6	4.4	16.1	16.1	Clear	34	206			
2 <b>7</b> 28	15.6	6.7	16.1	15.0	Clear					
29	15.6	1.7	16.1	15.6	Clear	<u>.</u>				
30	14.4	4.4	16.1	13.3	Clear	34	1.36			
31	10.6	4.4	13.3	11.7	Clear	11	52			
Total Oc				·		785	1,567	90		

<sup>\*</sup> When we sorted and sexed spring-run fish October 6 we determined that 23 fish had entered the hatchery uncounted between September 6 and October 2.

			4-5						Fish trapped
		Temporatu		**************************************				salmon	
	Ai		Wat				Fall		
November	Hoximum	Hinimum	Maximum	Mindown	Weather	Adı	ults	Grilse	
1	15.6	8.9	13.3	11.7	Clear	1		45	
2	17.2	11.1	13.3	12.8	Clear		8	78	
3 4	21.1	<b>7.</b> 8	13.3	12.8	Rein	2	2	91	
4	15.6	11.7	13.3	13.3	Cloudy				
5 6	17.2	10.0	13.9	12.2	Clear			_	
	18.3	8.9	12.8	11.1	Cleár	3	9	89	
7	16.7	8.3	13.3	12.2	Clear			•	
8	11.7	5.6	12.8	11.1	Clear	3	1	78	
9	15.0	7.2	12.8	12.8	Rain	1	6	55	
10	1.2.8	7.8	10.6	10.0	Rain	3.	6	26	
11	11.1	6.1	12.8	10.6	Rain				
12	12.8	5.0	10.6	10.0	Cloudy				
13	11.1	7.2	11.1	10.0	Rain	3:		76	
14	11.1	8.3	11.1	10.0	Rain	1		30	
· 15	11.1	7.8	11.1	10.0	Rain	•	7	16	
16	12.2	7.2	10.6	10.6	Rain			_	
17	16.1	7.2	11.1	10.6	Rain	3	2	26	
18	15.0	6.7	10.6	10.0	Rein				
19	10.0	7.2	10.6	10.0	Clear	•			
20	12.8	5.6	11.1	10.0	Clear	25	9	13	
21	13.9	6.7	10.6	10.0	Rein				
22	11.1	6.1	11.0	10.0	Rain	1.	l	2	
23	18.3	2.8	11.1	10.6	Clear				
24	12.2	3.9	11.7	10.6	Clear	9	9	ц	
25 26	11.1	3.3	11.1	10.0	Clear				
	11.7	4.4	11.7	10.6	Clear			•	
27	13.3	4.4	12.2	11.1	Cloudy	Įt.	5	8	
28	22.8	3.9	11.7	11.1	Cloudy				
29	13.3	3.3	11.7	11.7	Cloudy				
30	11.7	1.7	12.2	11.7	Cloudy				
		•							
Total No	vember					34	7	637	

							Fish trapped			
		Temperatu					salmon			
_	Ai		Wat				run	<u>\$</u>	teelhead	
December	Maximum	Minimum	Maximum	Minimum	Weather	Adults	Grilse	<u> </u>	F.	_
1	5.6	2.2	10.0	9.4	Cloudy	48	5			
2	3.9	1.7	9.4	9.4	Cloudy		•			
3	6.1	1.7	9.4	9.4	Cloudy					
4	7.2	3.9	9.4	8.9	Clear	16	կ			
5 6	7.8	-02.2	8.9	8.9	Rain			4	2	
	4.4	-02.2	8.9	8.9	Rain-snow	10		5	$\overline{\imath_i}$	
7 8	3.9	-00.6	8.9	8.9	Cloudy					
8	00.0	-05.6	8.9	8.9	Cloudy	28		1	1.	
	-01.1	-07.8	8.9	8.3	Cloudy					
10	3.3	<b>-05.</b> 6	8.3	7.8	Cloudy					
11	3.3	-06.7	8.8	7.8	Cloudy	17		2	3	
12	1.7	-05.6	7.8	7.8	Snow				_	
13	<b>5.</b> 6	-05.6	7.8	7.8	Clear					
14	-02.2	-03.9	7.8	7.8	Cloudy					
15 16	11.1	-05.6	7.8	7.8	Cloudy	11			3.	_
16	5.0	2.8	7.8	7.8	Cloudy					ì
17	15.0	6,1	7.8	7.8	Clear					7.4
18	7.8	3.9	9.3	3.9	Clear	32	5	6	5	1
19	15.6	15.0	7.8	7.8	Cloudy					
20	15.0	6.7	7.8	7.8	Cloudy					
21	15.6	15.0	8.3	7.8	Clear	1 -	•			
22	11.7	-01.1	8.3	7.8	Clear	40	28	7	14	
23	11.7	2.2	8.3	7.8	Clear	-0		-0		
24	13.3	5.0	8.3	7.8	Clear	28		58	19	
25	17.8	3.9	7.8	7.8	Cloudy					
26	10.0	00.0	7.8	7.8	Cloudy	7 8	•	6	3	
27	5.6	2.2	8.3	7.8	Rain	8 8	2	9	5	
28	10.0	-01.1	8.3	8.3	Rain	ŏ	•	00	O.F.	
29	10.6	-01.7	8.3	8.3	Clear			20	25	
	8.0	00.0	8.3	7.8	Clear					
	12.2	-01.1	7.8	7.8	Clear					
Total De	ecember	·		· <del></del>		253	44	88	79	

		Temperatu	re (C)				Fish trapped		<del></del>
	Ä:	ir	Wat	er		King salmon			
January	Maximum	Minimum	Maximum	Minimum	Weather	Fall run	Steel	head	
~						Adults Grilse	M	F	
1 2	Temperati		7.8	7.8	Clear			•	
	recording		7.8	7.8	Cloudy		1.6	3.0	
3 4	broken di	iring	7.8	7.8	Cloudy	•	9	10	
<del>"</del> 5	month		7.8	7.8	Cloudy		5	3	
6			7.8	7.8	Rain	2	ź	,	
5 6 7 8			7.8	7.8	Roin	-	•		
á			7.8	7.8	Rein				
9			7.2	7.8	Clear		1.0	6	
10			7.2	7.8	C <b>l</b> ear				
11			7.2	7.8	Clear		10	5	
12			7.2	7.8	Cloudy				
13			7.2 7.2	7.8	Cloudy		18	16	
13 14			7.2	7.8 7.8	Clear Rain				
15			7.2	7.8	Cloudy				
15 16			7.2	6.7	Rain		25	19	
17			7.2	6.7	Rain		- 1		l l
18			7.2	7.2	Rain		14	9	0.2
19			7.2	7.2	Rain		28	23	1
20			7.2	7.2	Cloudy	•	54	17	
21	16.7	00.6	7.2	7.2	Clear				
22	15.6	00.2	7.2	7.2	Clear				
23	19.4	02.8	7.2	7.2	Clear		00	04	
23 24	20.0	03.9	7.2	7.2	Clear		5 <sub>/</sub> † 50	27	
25 26	12.8	02.2	7.2	7.2	Clear		ć' <sup>4</sup>	23	
26	13.3	00.0	7.2	7.2	Clear		16	20	
27	12.2	00.0	7.2	7.2	Clear		10	38	
28	11.7	01.7	7.2	7.2	Clear	•			
29	09.4	02.2	7.2	7.2	Clear		29	74	
30	06.7	05.0	7.2	7.2	Clear		23	16	
31	12.2	03.3	7.2	7.2	Rain		t <sub>i</sub>		
Total J.	anuary		<del>12-11-11-11-11-11-11-1</del>		······································	2 0		17 	-
				<del></del>			€-11	ر.۱:	

								Fish trap	Fish trapped				
		Temperatu				King	g salmon	-	-				
	Αi		Wat				er run		Stee	elhead			
February	liaximum	Hinimum	Maximum	Minimum	Weather	Males	Females		<b>?1</b>	F			
1	14.4	00.0	7.2	7.2	Clear				10	15			
2	13.9	01.1	7.2	7.2	Cloudy								
· 3	12.8	02.2	7.2	7.2	Cloudy								
Ħ	11.7	12.2	7.2	7.2	Cloudy								
5	11.1	04.4	7.2	7.2	Rain								
5 6 7 8	13.9	01.7	7.2	7.2	Rain	26	9		16	23 24			
7	17.8	02.2	7.2	7.2	Rain	11	5		7	ίţ			
	15.0	02.8	7.2	7.2	Clear								
9	17.2	02.2	7.2	7.2	Clear				10	17			
10	15.6	14.4	7.2	7.2	Clear								
11	05.6	02.8	7.2	7.2	Cloudy								
12	10.0	01.1	7.2	7.2 6.7	Cloudy								
13	10.0	01.1	7.2	6.7	Cloudy	5	1 1		3	4			
14	13.3	03.3	7.2	6.7	Rain	3	1		3	14			
15	13.3	8.50	7.2	6.7	Cloudy				_				
16	13.3	04.4	7.2	6.7	Rain	6			5	25			
17	11.7	0.00	7.8	6.7	Rain								
18	06.7	14.4	7.8	6.7	Rain								
19	12.2	05.6	7.8	6.7	Cloudy		_		~	16			
20	10.0	01.1	7.8	6.7	Cloudy	11	1		7	70			
51	07.8	02.2	7.8	7.8	Clear	_	_		_	03			
22	11.1	01.1	7.8	7.8	Clear	9	3		2 1	21			
23	10.0	1.7	7.8	7.8	Clear	8	2		T	5			
24	16.7	02.2	7.8	7.8	Clear								
25 26	14.4	05.6	7.8	7.8	Clear								
26	11.7	06.7	7.8	7.8	Clear								
27 28	13.3	07.8	8.3	7.8	Clear				c	10			
28	08.9	03.9	7.8	7.8	Clear	17	4		5	10			
29													
30													
matal D	obwiesen			<del></del>		96	26		69	11,14			
Total F	euruary					90	20		<u> </u>	T.44			

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		Temperati	re (c)			Vinc	salmon	Fish Trapped	
	·Λi		Wat	cr			er run	54-2	elhead
March		Minimum	Maximum		Weather	Males	Females	Males	Females
_	•				****	· ***			
1	11.1	03.3	7.8	7.8	Rain				
2	10.0	04.4	7.8	7.8	Rain				
3	31.1	05.0	7.8	7.8	Clear				
4	12.2	01.1	7.8	7.8	Clear				
5	13.3	03.9	7.8	7.8	Cloudy	13	4	16	2
6	09.9	06.7	7.8	7.2	Cloudy				-
7	14.4	04.4	7.2	7.2	Rain			<b>;</b>	3
8	11.7	01.1	7.2	7.2	Rain	9	1	1	$\widetilde{4}$
9	11.1	01.1	7.8	7.2	Cloudy		<del></del>		
10	15.0	0,1 . յլ	7.8	7.8	Cloudy	•			
11	08.3	06.7	7.8	7.8	Cloudy				
12	13.3	06.1	7.8	7.8	Cloudy				
13	15.0	04.4	7.8	7.8	Clear				t t
14	16.7	02.2	8.3	7.8	Clear				
15	17.8	06.7	8.3	8.3	Clear				
16	17.8	10.0	8.9	8.3	Clear				
17	16.7	08.3	8.3	8.3	Clear				
18	21.1	07.2	8.9	8.3	Clear				
19	22.2	06.1	8.9	8.3	Clear				t
20	21.7	04.4	8.3	7.8	Clear				
21	15.6	04.4	8.3	7.8	Clear				
22	15.6	07.8	8.3	7.8	Clear				
23 24	13.3	16.1	7.8	7.8	Clear				
24	13.3	05.0	8.3	7.8	Clear				
25 26	10.0	07.8	8.3	8.3	Rain				
26	15.2	08.9	8.9	8.3	Rain				
27 28	10.0	08.3	8.9	8.3	Cloudy				
28	14.4	10.0	8.9	8.3	Rain				
29 30 31	15.0	10.0	8.9	8.3	Rain				
30	10.0	06.7	8.9	8.9	Rain				
31	13.9	02.2	8.3	8.3	Rain .				
Tot	ol March					22	5	21	()

(Continued)
Table 7
Appendix

Fish trapped																								•								
		Weather	Clear	Clear	Clear	Clear	Clear	Roin	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Rain	Clear	Clear	Clear	Clear	Cloudy	cTona
	Water	Hinimum	8.9	8.9	8.9 9.9	8.9	4.6	7.6	10.0	4.6	4.6	<b>4.</b> 6	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.6	11.1	11.1	10.6	10.6	11.1	ויון	10.0 10.0	0.01	11.1	0.01
ure (C)	Wa	Maximum	₽.6	8.9 6.9	4.0	4.6	•	10.6	11.1	11.1	10.6	11.1	11.1	10.6	11.1	11.1	11.1	10.6	10.6	10.6	10.6	11.1	11.7	11.7		11.1				•	11.1	<del>-</del>
Temperature (C	Air	Kinimum	 90	ħ. ħO			02.2	07.8	08.3	06.1		11.1	1.90	12.2	14.4	16. <u>7</u>	12.8	13.3	16.7	17.2	12.8	03.9 0	08.9	10.0	10.0	12.2	11.7	11.1			19.4	
		Maximum	,3 ,3	Š	s.	14.4	15.6	50.6	25.2	23.9	26.7	27.8	30.6	31.1	30.6	30.0	30.0	31.1	33.3	33.3	27.2	23.3	26.7	26.7	25.6	16.7	20.6	% % %	יי ייי	ار د در	# 6 # 4	,,,
		April	-	cu	m	<b>_</b>	ς.	.9	_	ω	0	ឧ	11	ឧ	13	) <u>†</u> 1	15	16,	17	18	19	<sub>2</sub> ر	เร	22	23	ನ	25	26,	27	88	29	30

						Fish trapped
	Ai	Temperatu				
MAY	A1 Naximum		Wat Maximum	Minimum	Weather	
	15.6	O4 .4	11.7	11.7	Clear	
1	15.6	06.7	11.7	11.1	Clear	
2	15.6	02.2	11.7	10.6	Clear	
2 3 4	14.4	02.2	11.1	11.1	Clear	
-	14.4	02.2	11.1	10.6	Clear	
5 6 7 8	23.3	06.1	117	10.6	Clear	
7	21.1	06.7	11.7	11.1	Clear	
Á	25.0	08.9	12.2	11.1.	Clear	
9	23.3	07.8	12.2	11.1	Clear	
10	50.0	07.3	12.2	11.7	Clear	
11	21.1	06.7	12.2	11.7	Clear	
15	21.7	07.8	12.2	11.7	Clear	
13	13.3	10.0	12.2	11.7	Rain	
14	17.8	05.6	12.8	11.7	Cloudy	
15	17.2	07.8	12.2	11.7	Clear	
16	16.1	07.2	12.2	11.7	Clear	
17	16.1	08.3	12.2	11.7	Clear	
17 18	16.1	02.2	12.2	12.2	Clear	
19	16.7	04.4	12.2	11.7	Clear	
20	20.0	04.4	13.3	12.2	Clear	
21	22.2	05.7	12.8	11.7	Clear	
22	24.4	10.0	12.8	12.8	Clear	
23	25.6	07.2	13.3	12.8	Clear	
5 <sub>1</sub> t 53	26.1	06.7	13.3	12.2	Clear	
25	29.4	08.9	12.8	11.1	Clear	·
25 26	<b>-27.8</b>	12.2	12.2	11.7	Clear	
27	26.1	10.0	12.8	11.7	Clear	
27 28	19.4	07.2	13.3	12.2	Clear	,
29	21.7	06.1	13.9	12.2	Clear	
30	21.7	05.6	13.9	13.9	Clear	
31	22.8	13 9	13.9	13.3	Rain	

24

		Temperatu	re (C)						Fish trapped		
	A.		Wat	er			King sal			S <sup>r</sup>	teclhead
June	Maximum	Minimum	Maximum	Minimum	Weather	Winter run	Fall run	Spring	run		
						Male Female	Adults Grilse	Adults	Grilse	Male	Female
1	33.3	11.1	14.4	13.3	Clear						
2	27.8	11.1	13.9	13.9	Cloudy	•					
3	27.2	12.2	14.4	13.9	Cloudy						
4 .	31.1	11.1	13.9	12.8	Clear						
5 6	32.2	14.4	14.4	13.3	Clear						
6	33.9	18.9	14.4	13.3	Clear						
7 8	35.6	16.7	15.0	14.4	Clear						
	36.7	15.6	15.0	14.4	Clear						
9	34.4	17.8	15.0	14.4	Clear						
10	28.3	12.8	15.0	14.4	Cloudy						
11	26.1	11.1	15.0	14.5	Cloudy						
12	27.8	10.0	15.0	13.9	Cloudy						
13	21.1	12.8	14.4	13.9	Cloudy						
14	22.2	10.0	14.4	13.9	Cloudy						
15 16	23.3	09.4	14.4	14.5	Clear						
16	22.8	12.2	15.0	14.4	Clear						
17 18	22.2	10.0	15.0	14.4	Clear						
	28.9	09.4	15.0	14.4	Clear						
19	35.6	12.2	15.6	13.9	Clear						
20	36.1	16.7	15.0	15.0	Clear						
21	36.7	20.0	15.0	15.0	Clear						
22	27.2	11.7	15.0	15.0	Clear						
23 24	24.4	13.3	15.0	15.0	Clear						
24	31.1	12.2	15.0	14.4	Clear						
25 26	34.4	14.4	15.0	13.9	Clear						
26	36.7	16.7	15.6	14.4	Clear						
27 28	36.7	20.0	14.4	13.9	Clear						
28	33.9	18.3	14.4	13.9	Clear						
29	29.4	14.4	14.4	13.3	Clear						
30	28.3	12.2	14.4	13.3	Clear						
m. de 7	7 9 9 9										
TOTALS J	uly 1, 19'	/2 through	ı June 30,	1973		118 31	1,387 2,248	256	0	455	545