REF 90085

State of California THE RESOURCES AGENCY Department of Fish and Game

Mark which brown &

ANNUAL REPORT
TRINITY RIVER SALMON AND STEELHEAD HATCHERY
1972-73

by .

Gerald W. Bedell
Region 1, Inland Fisheries

Anadromous Fisheries Branch Administrative Report No. 74-4

ANNUAL REPORT TRINITY RIVER SALMON AND STEELHEAD HATCHERY 1972-731/

by

Gerald W. Bedell Region 1, Inland Fisheries

ABSTRACT

This report describes the operation of Trinity River Salmon and Steelhead Hatchery for the period July 1, 1972 through June 30, 1973. King salmon (Oncorhynchus tshawytscha), silver salmon (O. kisutch), steelhead (Salmo gairdnerii gairdnerii) and sea-run brown trout (S. trutta) were reared.

Tables present the numbers of adults spawned and eggs and fish produced and planted. The appendix presents the numbers of eggs and fish shipped and received, and daily weather, water temperature, and fish trapping data for the fiscal year.

Anadromous Fisheries Branch Administrative Report No. 74-4. Submitted for publication October 1973.

INTRODUCTION

This is the fifteenth consecutive fiscal year report covering operation of the Trinity River Salmon and Steelhead Hatchery, located near Lewiston, Trinity County. The hatchery was constructed by the United States Bureau of Reclamation to compensate for spawning areas blocked by the Trinity River project. The California Department of Fish and Game began operation of the permanent installation on May 15, 1963. Operation and maintenance costs are paid by the Bureau.

This report describes operation of the hatchery from July 1, 1972 through June 30, 1973. Copies of previous annual reports are available upon request from the Anadromous Fisheries Branch, Sacramento.

BUDGET

The estimated hatchery operating budget for fiscal year 1972-73 was \$263,742.00.

Total - Salary and Wages Fish food	\$120,620.00 83,000.00
General expense	-3,300.00 -
Chemicals	3,000.00
Nets and Seines	300.00
Telephone	500.00
Postage	100.00
Travel, instate	2,400.00
. Recurring maintenance of facility	10,000.00
Vehicle operation, automobile	6,180.00
Rental of refrigeration unit	3,600.00
Equipment, misc. replacement	200.0 0
Equipment, misc. additional	200.00
	233,400.00
	charges 30,342.00
TOTAL	263,742.00

Due to the adjustment in Salary and Wages, Fish food, and Administrative charges, actual expenditures amounted to \$255,723.00

PRODUCTION SUMMARY

King salmon entered the hatchery from August 30 through November 13. Silver salmon began entering the hatchery October 12. The run ended December 11. Steelhead were trapped at the hatchery from October 30 until April 19. A few brown trout entered the hatchery between October 16 and November 30.

Production data are as follows:

Species	Number trapped	Number females spawned		Number fingerlings planted or transferred	Yearlings or broodstock planted or transferred	Total kg planted	On hand June 30, 1973
King salmon	11,381	3,456	10,616,000	5,775,210	1,302,029	64,593	1,200,000
Silver salmon	2,670	25	51,000	0	9,829	379	42,000
Steelhead 1973 BY 1972 BY 1969-70 BY	271	527 <u>a</u> ,	/ 1,534,000 <u>t</u>	2/ 0 101,376	0 581,444 1,498	0 23,406 1,526	896,000 <u>c</u> / 4,000 0
Brown trout 1972 BY 1971 BY 1969 BY	111	43	73,000 <u>6</u>	!/ o	0 30,220 2,321	0 921 1,625	50,000
TOTALS	14,433	4,051	12,274,000	5,876,586	1,927,341	92,450	2,192,000

Includes 152 Trinity River brood stock and 288 Eel River brood stock.

Includes 146,000 shipped to Mad River Hatchery.

Includes 20,544 shipped to Mt. Shasta Hatchery.

HATCHERY OPERATION

No major disease problems occurred at Trinity River Hatchery during fiscal year 1972-73. This contrasted with 1971-72, when over 40% of all king salmon eggs taken were lost to white spot disease. White spot did occur in isolated instances this year, but mortalities were negligible. Losses were confined to a few incubator trays which suggested that a few individual fish were responsible.

The only other disease problem encountered during the year was a small outbreak of tail rot among spring-run king salmon fingerlings. Regular treatments with copper sulfate and malachite green controlled this disease.

Includes 130,848 Washougal strain (summer-run) fingerlings received from Moccasin Creek Hatcherv.

Predation by mink, racoons, gulls, kingfishers, and especially great blue herons, accounted for unknown but probably substantial losses of juvenile salmon and steelhead from raceway ponds.

All production fish were reared on a diet of Oregon Moist Pellet (OMP). Brood fish were started on OMP and then changed to dry brood stock pellets during the last 4 to 6 months before spawning. A total of 207,002 kg (456,600 lb) of feed produced 92,329 kg (203,389 lb) of fish during fiscal year 1972-73. The feed conversion rate (kg of feed required to produce 1 kg of fish) was 2.24.

One of the coldest periods in many years occurred in northern California during December. Air temperatures at the hatchery dropped to -18.3 C (-1 F); water temperatures declined to 3.6 C (38.5 F), and growth of fish in the raceways virtually stopped. Some pipes and valves were broken, but damage was minor.

Hatchery maintenance projects completed during the year included painting the fish feed bins and resurfacing the roadways adjacent to the lower pond series. Contractors did both jobs. Hatchery employees began converting a second stack of incubators to a heating-recirculating system. Hopefully, this will be completed before the 1973 salmon spawning season.

Hatchery personnel hauled approximately 34,500 kg (76,000 lb) of salmon carcasses to Redding and transferred them to Butte Tallow Works' trucks for delivery to a reduction plant south of Chico.

The hatchery had 18,201 visitors in 1972-73. An additional 4,817 anglers used the river adjacent to the hatchery during the fly fishing only season from the Saturday preceding May 30 to September 15. Guided tours were provided for several of the larger groups of visitors, most of which were from schools in the area.

MARKING PROGRAMS

No fish were marked at Trinity River Hatchery during fiscal year 1972-73. Returning marked fish from previous years are listed in the sections for each species.

KING SALMON MAINTENANCE PROGRAM

History of the 1972 Run

The 11,381 king salmon trapped at the hatchery during this report period set an alltime record—due primarily to a very large number of spring—run fish. The first of these salmon was observed in the large stilling basin below the Lesiston Dam spillway May 20. Salmon arrived daily until there were an estimated 4,000 to 7,000 adult fish in the area from Lewiston Dam to the weir 1.6 km (1 mile) downstream.

The ladder was opened on August 30, and the surge of fish which then ascended filled the holding ponds to capacity by August 31. At this point, many of the fish, mostly males, were tagged with yellow Floy tags and returned to the river. Of the approximately 2,700 fish tagged and released, less than 20% returned to the trap. Many of them headed back downstream and anglers reported catching tagged fish as far downstream as Junction City.

Spring run

Between August 30 and October 8, 7,791 king salmon, thought to be mostly spring-run, were trapped. This number included 3,253 males, 4,424 females, and 114 grilse. A total of 2,185 females was spawned. They produced 6,613,000 eggs, an average of 3,027/female. The eggs averaged 281/100 ml (83/ounce). A sample of 250 adult spring-run fish, males and females, averaged 76 cm (29.9 inches) FL.

Fall run

A total of 3,590 king salmon was trapped from October 9 to November 13: 1,964 large males, 1,401 females, and 225 grilse. All were assumed to be fall-run.

There were 1,271 fall-run females spawned. They produced 4,003,000 eggs, an average of 3,149/female. Egg size averaged 284/100 ml (84/ounce). A sample of 100 fall-run fish, males and females, averaged 71 cm (28.1 inches) PL.

Marked King Salmon Returns

During the 1972-73 season, 1,290 marked king salmon were trapped. Six different marks were represented as follows:

•			Release data			Recove	Recovery data	
Mark	Brood year	Date	Release site	Number	Average weight (g)	Number	Mean fork length (cm)	
	-	•-	Trinity					
⊸ Vd ¯	1966	3/19/68	Hatchery	52,185	42	11	73	
LV .	1967	12/ 3/68	- tt	100,000	27	7	82	
RV	1967	4/10/69	11	100,000	67	21	80	
Λd÷ĽP	1968	10/15/69	**	200,000	33	1,248	72	
$\mathbf{L}\mathbf{P}$?	Ŷ	?	?	·?	2	80	
RP	*	Ÿ	?	*	?	$\bar{1}$	70	

Planting 1971 Brood Year King Salmon

A total of 1,302,029 1971 brood year king salmon was planted this fiscal year as yearlings. None were marked (see following table).

5421/7 801

1,302,029 TOTAL 30 345,180 Fall run **Матећ** 1973 121,675 Spring run 91 March 1973 27 700,009 Eall run October 1972 32 Натслету 135,165 Spring run October 1972 (3) atte Ипшрек Date Average weight Кедеаѕе

fiscal year as fingerlings. Of the 10,556,000 king salmon (fall- and spring-A total of 4,304,720 1971 brood year king salmon had been planted last

run) eggs taken in 1971, 5,606,749 (53%) were eventually planted.

the East-Fork and Forest Glen. (97/1b) were planted in the South Fork Trinity between its confluence with From May 21-25, 1973, 930,900 spring-run salmon averaging 4.7 g in weight

in connection with a series of virus tests being conducted at that facility. (922/lb) were transferred to Feather River Hatchery. These fish were used On March 23, 1973, 9,920 king salmon fingerlings averaging 0.5 g in weight

1972 Brood Year King Salmon Planted and Transferred

An additional 4,834,390 fingerlings were planted in the Trinity below the

weir located 1.6 km (l mile) downstream_from the hatchery as follows:

Ииmber	Average weight (g)	Date .
000,898	8*₺	5/29/73 Spring run
00L T6S	∠* ₹	
909,500	ሪ*ቱ	2/3 1/ /3
.588 [°] 800	6 ° ₹	μ ε <i>L/</i> Τ/9
092,250	᠘° ፟፟፟፟	ε <i>L/</i> ₹/9
008'94 -	∠* ₱	" εL/8 /9
230 , 4 00	∠* ₽	ιι ε <i>L/</i> ΤΤ/9
006 969	9 ° E	6/15/73=Fall run
34T 040	۲۰۵	" EL/6T/9
		•
4,834,390	INTOT	· ·

held at the hatchery for later release as yearlings. Approximately 900,000 fall-run and 300,000 spring run fingerlings are being

SILVER SALMON MAINTENANCE PROGRAM

History of the 1972 Run

Silver salmon began entering the hatchery October 12. When the run ended December 11, 2,670 fish (28 males, 30 females, and 2,612 grilse) had been trapped. Twenty-five of the females were spawned. They produced 51,000 eggs (average: 2,040/female). The average egg size was 328/100 ml (97/ounce).

Marked Silver Salmon Returns

No marked silver salmon returned to Trinity River Hatchery during the 1972-73 season.

Planting 1971 Brood Year Silver Salmon

The 1971 brood year Silver salmon yearlings, all Trinity River stock, were planted in the river near the hatchery as follows:

	ate -	Average weight	(g	Number
	7/73	38	****	9,829

A total of 16,000 eggs had been taken from the 1971 run; thus egg-to-planting survival was 61%.

STEELHEAD MAINTENANCE PROGRAM

History of the 1972-73 Steelhead Run

Steelhead began entering the trap October 30. When the run ended April 10, 271 fish (160 males; 111 females) had been trapped. Eighty-seven females were spawned that produced 361,000 eggs, an average of 4,149/female. The average egg size was 667/100 ml (197/ounce). All resulting progeny are being held for release as yearlings.

Marked Steelhead Returns

Of the 271 steelhead trapped during 1972-73, 182 (67%) were marked. All had been released from Trinity River Hatchery. Those fish which were released at the hatchery returned at a rate of nearly 10 to 1 over those which were released downstream. Mark recoveries were as follows:

В						very data
	Brood year Dat	Release e site	Number	Average weight (g)	Number	Mean fork length (cm)
	1967 5/9	/69 Hawkins Bar 97 km below hatchery	45,500	239	1	48.3
	1968 10/15		50,000	69	128	64.7
	1969 4/13		20,000	·57	33	62.8
	1969 4/14		21,000	52	. 6	66.9
An-RV	1969 10/27	/70 China Slide	50,000	162	14	67.6

Trinity River Strain Steelhead Brood Stock (Winter-run)

For the fourth consecutive year at Trinity River Hatchery, eggs were taken from winter-run Trinity River strain brood stock steelhead--fish from the 1970 brood year which had been held at the hatchery for this purpose. Of the approximately 400 females on hand, 152 matured and were spawned. They produced a total of 366,000 eggs, an average of 2,408/female. The average egg size was 805/100 ml (238/ounce). The fish spawned averaged 43 cm (17.0 inches) FL.

All resulting progeny (1973 brood year) are being held for yearling releases.

All winter-run brood stock on hand, spawned and unspawned, were planted at the end of the spawning season as follows:

Date	Average weight (kg)	Mark	Release site	Number
4/23/73	0.9	None	Hatchery to 24 km downstream	793

Eel River Strain Steelhead Brood Stock (Summer-run)

For the second successive year at Trinity River Hatchery, eggs were taken from Ecl River strain summer-run steelhead brood stock. These brood fish were 1969 brood year progeny of steelhead trapped as adults in the main Ecl River and brought to the hatchery in the summer of 1968. The original purpose in bringing the wild adults to the hatchery was to determine the feasability of holding summer-run stock in a hatchery environment should future Ecl River water development make it necessary

Two hundred and eighty-eight females were spawned that produced a total of 807,000 eggs (2,802/female). The eggs averaged 788/100 ml (233/ounce). The fish spawned averaged 49 cm (19.3 inches)-FL.

A total of 146,000 of these eggs was shipped to Mad River Hatchery April 11, 1973.

All Eel River summer-run brood stock on hand were planted at the end of the spawning season as follows:

Date	Average weight (kg)	Mark	Release site	Number
4/25/73	1.1	None	Hatchery to 24 km	705

1973 Brood Year Summer-run Steelhead Received

A total of 130,848 Washougal River, Washington, strain steelhead fingerlings was received from Moccasin Creek Hatchery June 7, 1973. These fish will be held for yearling releases in the Trinity River.

Planting 1972 Brood Year Steelhead

Trinity River Strain (progeny of adults trapped during-1971-72 season)

The 1972 brood year Trinity River strain steelhead were planted as follows:

Date	Average weight (g)	∵Mark	Release site	Number
4/11/73	·- 44	None	Hatchery	10,920
4/11/73	41	11	11	10,920
4/11/73	24	11	***	22,800
4/16/73	. 32	TT.		14,000
4/16/73	41	11	77	11,000
4/16/73	_16	11	tt	28,200
4/17/73	23	11	11	12,500
	 - 6.	•	TOTAL	110,340

There are approximately 4,000 1972 brood year Trinity River strain steel-head being held at the hatchery for brood stock.

Of 262,000 1972 brood year Trinity River strain eggs taken, 114,340 (43.6%) were eventually planted or are on hand as brood stock.

Trinity River Brood Stock Strain

The 1972 brood year steelhead, Trinity River brood stock strain were planted, unmarked, at the hatchery, as follows:

Date	Size (g)	Number		Date	Size (g)	Number
3/ 6/73	65.8	25,025		4/ 9/73	51.6	8,800
3/ 6/73	81.1	26,880		4/ 9/73	45.4	10,000
		•		4/ 9/73	50.4	25,000 25,000
3/ 7/73	70.9	5,824		4, 7, 10	00.4	2,000
				4/10/73	35.2	14,835
3/27/73	69.8	5,200	•	4/10/73	48.3	9,400
		. ,	•	4/10/73	47.3	19,200
4/ 4/73	63.9	9,940	- .	4/10/73	28.4	
4/ 4/73	69.8	3,900		1,10,10	20.4	16,000
4/ 4/73	78.3	1,740		4/11/73	46.3	9,800
4/ 4/73	31.5	10,800		4/11/73	49.3	9,200
•		20,000		4/11/73	41.2	
4/ 5/73	48.3	9,400		4/11/73	26.1	7,975
4/ 5/73		8,400		. 4/11/70	20.1	13,485
4/ 5/73	43.7	7,280	•	4/12/73	- 37.8	12 000
, ,,,,,		7,200.		4/12/73	- 29.5	12,000 - 15,400
4/ 6/73	28.4	9,600		4/12/10	• 27.0	- 15,400
4/ 6/73	32.4	19,320		4/13/73	29.9	15,200
4/ 6/73	49.3	5,520		4/13/73	30.3	15,000
1/ 6/73	63.9	4,970	·*	4/13/73	22.7	•
1/ 6/73	52.8	26,015	-	4/10/70	22.1	40,000
1/ 6/73	48.3	7,050	.**	4/16/73	22.5	16 160
6/73	34.9	3,900		4/10/70	24.5	16,160
6/73	32.4	4,200		TOTAL 3-6	i to	
1/ 6/73	54.0	8,400			.6, 19 7 3	444.819

Eel River Brood Stock Strain (Summer-run)

A total of 101,376 1972 brood year summer-run fingerlings was transferred to Mad River-Hatchery July 6, 1972.

The rest were planted as follows:

Date	Average weight (g)	Mark	Release site	Number
4/18/73 4/18/73 4/19/73	15 38 . 37	None "	Hatchery -	9,300 11,800 5,185
			ΤΌΤΛΙ	26,283

Of 249,000 1972 brood year Eel River strain eggs taken last season, 127,661 (51%) were later transferred to Mad River Hatchery or planted.

BROWN TROUT MAINTENANCE PROGRAM

History of the 1972 Brown Trout Run

Between October 16 and November 30 lll brown trout (57-males and 54 females) were trapped at the hatchery. Forty-three of the females were spawned, producing 73,000 eggs, an average of 1,698/female. Egg size averaged 930/100 ml (275/ounce).

 Λ total of 20,544 of these eggs was shipped to Mount Shasta Hatchery January 11, 1973.

Planting 1969 Brood Year Brown Trout

All 1969 brood year brown trout left on hand were planted in the Trinity River as follows:

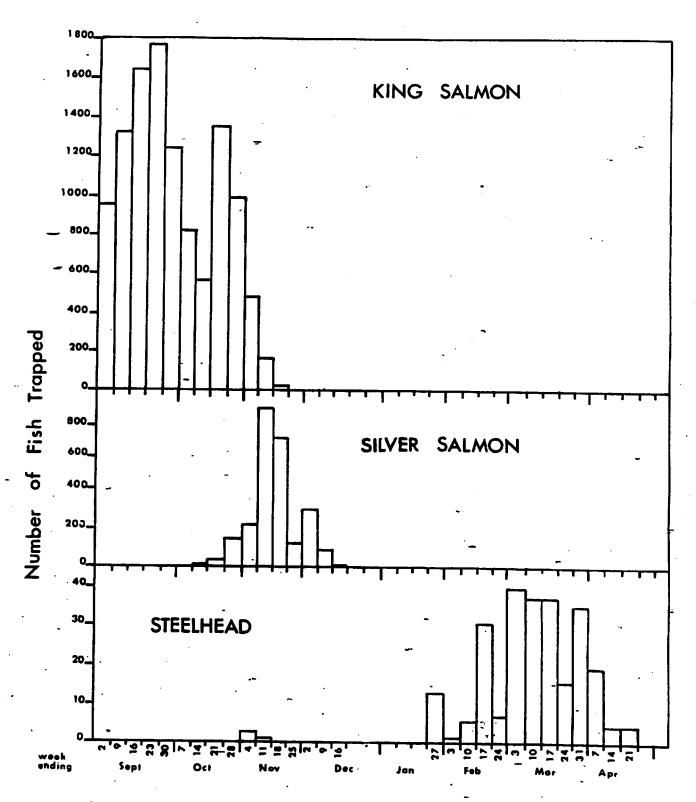
Date	Average weight (kg)	Mark	Release site	Number
11/13/72 11/15/72	0.7 0.7	None	Hatchery "	634 1,687
			TOTAL	2,321

Planting 1971 Brood Year Brown Trout

The 1971 brood year brown trout were planted as follows:

Date	Average weight (g)	Mark	Release site	Number
4/17/73 4/17/73	35 26	None "	- Hatchery	9,750 20,470
	•		TOTAL	30,220

Of 140,793 brown trout eggs taken in 1971, 30,220 (22%) were eventually planted.



Appendix Figure 1. Weekly counts of salmon and steelhead trapped at Trinity River Hatchery during 1972-73 season.

Appendix Table 1

Eggs and Fish Shipped from and Received at Trinity River Hatchery, July 1, 1972-June 30, 1973

Shipped	Number	Date	To
Steelhead fingerlings (1972 BY) summer-run, Eel River strain	101,376	7/ 6/72	Mad River Hatchery
Brown trout eggs (1973 BY)	20,544	1/11/73	Mount Shasta Hatchery
King salmon fingerlings (1972 BY)	9,920	3/23/73	Feather River Hatchery
Steelhead eggs (1973 BY) summer-run, Eel River strain	146,000	4/11/73	Mad River Hatchery

Received	Number	Date	From
Steelhead fingerlings (1973 BY) summer-run, Washougal strain	130,840	6/ 7/73	Moccasin Creek Hatchery

Appendix Table 2
Yearly Comparison of 1 h Trapped at Lewiston July 1, 1967 through June 30, 1973

Species	July 1, thro June 30			, 1968 ough), 1969	July 1, thro June 30	ugh	July 1, thro June 30	ough	July 1, 1 throug June 30,	; h	thr	, 1972 ough 0, 1973
King Salmon				•				•				
Male Female	1,620 1,250		1,797		621 <u>.</u> 832		7?3 725		3,649 4,645		5,217 5,825	
Total Adults		2,870		3,899		1,456		1,498	{	3,293		11,042
Grilse		1,746		873		1,130		2,946		928		339
Totals	!	4,616 .	,	և,772	,	2,586		ր, իրր		,221		11,381
Silver Salmon	1	;					-					
Male Female	287 519	• .	3 1		153 132		1,410 1,396		: 28 11		28 30	
Total Adults		. 806		4		285		2,806	•	39		58
Grilse '		59	•	34		1,711		3147		8		2,612
Totals		865		38	:	1,996	,	3,147		ե7		2,670
Steelhead trout	1											
Adults		232	,	554		5/17		67		242		271
From: trout		60 - 	7								·	
Adults		231 .	• •	170		, 70		23		y . 7	·	າາາ

: 1

Appendix Table 3
Trinity River Salmon and Steelhead Hatchery
Weather, Water, and Fish Data Report
July 1, 1972, through June 30, 1973

,		Temperatu				Flow of Trinity River	Fish trapped	
	Ai		Wat			at Lewiston	King salmon Silver salmon	
July	Maximum	Minimum	Maximum	Minimum	Weather	<u>(m³/sec**)</u>	Adults Grilse Adults Grilse Steelhead	
1	41.1	13.3	11.1	10.0	clear	4.340		
1 2	37.2	15.6	11.1	10.0	clear	4.312		
3	38.3	12.8	11.7	10.6	clear	4.284		
4	36.1	13.3	$\frac{-1}{11.4}$	9.7	clear	4.284		
5	33.9	11.7	11.1	10.0	clear	4.284		
6	32.2	11,1	11.4	10.0	clear	4.284		
7	33.3	8.3	11.7	10.0	clear	4.284		
8	31.1	8.9	10,6	10.0	clear	4.284	•	
' 9	30.0	11.7	10.6	10.3	cloudy	4.284	4	
10	33.3	8.3	11.1	10.0	clear	4.284		
11	36.7	10.6	11.1	10.0	clear	4.284		
12	39.4	13.3	10.8	10.0	clear	4.256	;	
13	41.1	11.1	11.4	10.0	clear	4.284		
14	42.2	14.4	11.1	10.0	clear	4.200		
	46.7	14.1	12.2	10.6	clear	4.396		
15 16	41.1	15.6	12.2	10.6	clear	4.424	·	
17	41.1	16.1	12.2	10.0	clear	4.452		
18	33.3	15.6		10.0	clear	4.424	•	
19	30.6	10.0	11.4	10.3	cloudy	4.312		
່ 20	30.0	11.7	11.7	10.3	cloudy	4.312	•	
21	31.1	11.1	11.1	10.3	cloudy !	4.284	•	
22	33.3	11.1	11.1	10.3	cloudy	4.284	,	
23	32.2	10.6	11.1	10.3	cloudy	4.284	•	
24	31.7	10.0	11.7	10.3	clear	4.284		
25	32.2	8.9	11.4	10.3	clear	4.284		
26	33.3	10.0	11.9	10.3	clear	4.284		
27	37.8	10.0	11'.4	10.0	clear	4.312		
28	38.9	10.6	. 11.1	10.0	clear	4.312		
29	1 180.0	14.4	. 10.6	10.0	light rain		•	
30	35.6	11.1	11.1	9.4	clear	5.012	· · · · · · · · · · · · · · · · · · ·	
31	35.6	10.6	11.1	9.4	clear	4.200		

^{*} Temperatures recorded in F, and later converted to C. ** Calculated equivalents of USGS records of flows in cfs.

- 15

		Temperatu	re (C*)			Flow of Trinity River		Fi	sh trap	ned	
	Ai	r	Wat	er ·	•	at Lewiston	King s		ilver s		
ugust	Maximum	Miŋimum	Maximum	Minimum	Weather	(m ³ /sec**)	Adults	Grilse.	dults G	rilse	Steelhead
1	36,1	8.9	11.1	9.4	clear	4,200		1			
<u> </u>	37.8	10.0	11.7	9.4	clear	4.200					•
3 .	40.0	10.0,	11.1	9.7		loudy4.200					
4 1	37.2	12.2	11.1	10.0	clear	4.228	•				•
5	38.9	13.3	11.1	10.3	clear	4.200					
6	43.3	11.7	11.7	10.6	clear	4.228					
7	42.8	13.9	11.7	10.6	clear	4.228					
8	40.0	17.2	11.7	11.1	clear	4.228				:	
ç	40.0	15.6	11.7	11.1	clear	4.228					
10	39.4	14,4	12.2	11.1	clear	5.208					
11	35.0	12.2	11.4	11.1	clear	5.796					
. 12	31.1	10.0	11,7	10.8	clear	4.256				d	,
13	30.6	8.3	11.1	10.6	clear	4.256				7	
14	30.0	7.8	,11.1	10.6	cloudy	4.256					
15	25.6	11.1	10.3	10.0	cloudy	4.284					
16	17.2	11.1	10.3	10.3	rain	4.284		;			
17	27.8	10.6	11.7	10.0	clear	4.284					
18	28.9	10.0	12.8	11.9	cloudy	4.284					
19	26.7	11	12.8	12.2	cloudy	4.284			:		
20	26.7	13.9	12.8	12.2	cloudy	4.284					
21	32.2	10.0	13.3	12.5		Loudy4.284					
22	33.3	10.0	13.3	12.8	clear	4.340					,
23	35.0	8.9	13.6	12.8	clear	4.424					
24	34.4	10.6	13.6	13.1	clear	4.396	•	•			
25	38.3		13.9	13.1	clear	4.368					
26	38.9	10.6		13.3	clear	4.256	, j		• •		
27	41.7	11.1	14.2	13.6	clear	4.200					
28	36.1	1,1.4	14.2	13.6	clear	4.228					
29	35.0	14.4	13.9	$\frac{1}{3}$, 3	clear	4.200					
30	27.2	11.1	13.9	13.3	clear	4.228					
31	36.7	13.3	13.6	11.1	clear	4.256	\circ 62	3			•
			7				962	3	 		

Temperatures recorded in F, and later converted to C.

*** Calquated equivalents of USGS records of flows in cfs.

			ure (C*)		•	Trinity River			Fish tr	apped	
		ir	Wa	ter		at Lewiston	King s	almon	Silver	salmon	
September	Maximum	Minimum	Maximum	Minimum	Weather	(m ³ /sec**)	Adults	Grilse	Adults	Grilse	Steelhead
1	37.2	11.1	13.3.	13.3	clear	5.152					
2		15.6		12.8		cloudy5.684					
3	34.4	11.7	13.3	13.1	clear	5.628					•
4	31.1	11.7	12.8	12.5		cloudy5.600					
5	30.6	15.6	12.8	12.2	fog-cle		815	2			
6	27.8	12.2	13.1	12.5	clear	5.628	, 013	Z			
7	32.2	7.8	13.1	12.5	clear	4.900	510	0		*.	
8	32.2	9.4	12.2	11.4	clear	4.340	210	2			
9	26.7	7.8	11.7	11.4	clear	5.068					
10	26.1	4.4	11,7	11.1	clear	5.712			•		
' 11	21.1	3.3	11.1	11.1	rain	5.684	796	5		4	•
12	25.6	7.8	10.8	10.6	clear	5.684	790	อ			
13	30.0	3.9	10.6	10.0	clear	5.684					
14,	33.9	4.4	10.6	10.3	clear	5.656	841	16	:		-
15	35.6	4.4	10.3	9.7	clear	5.684	041	10			-
16	34.4	5.6	11.1	10.0	clear	5.684					•
·17	30.6	-7.8	$\overline{11.1}$	9.4	clear	5.684	-				
18	25.0	6.İ	10.8	9.4	clear	5.684	949		•		
19	22.2	8.9	10.0	9.4	clear	5.684	747				
20	28.9	1.7	10.3	9.4	clear	5.684					
21	28.3	5.6	10.0	9.4	cloudy	5.628	828	11			
' 22	27.8	8.9	9.4	9.4	clear	5.656	020	-AA-			
23	21.1	1.7	9.2	8.3	clear	5.628		t			
24	21,1	0.6	. 89	8.1	clehr	5.656					
25	21.1	3.9 ;	8.1	8.1	rain	5.712	, 648	9	• •		
2ó	21.1	9.4	8.1	8.1	rain	5.740	370	•			
27	21.7	8.3	8.3	7.8		cloudy5.684					
28	25.6	8.3	8.9	8.3	clear	5,684	498	14			
20	28.9	5.6	9: 7	8.3	clear	5.684		 -			
30	29.4	6.7	9.4	8.6	clear	5.684					
TOTALS	1 1						5,935	59			····

Temperatures recorded in F, and later converted to C. Calculated equivalents of USGS records of flows in cfs.

		Temperatu	re (C*)	•		Flow of Trinity River			Fish tra	anned	
	Ai		Wat	er		at Lewiston	King	salmon	Silver	salmon	
0ctober		Minimum	Maximum		Weather	$(m^3/sec**)$	Adults	Grilse	Adults	Grilse	Steelhead
7	28,9	7.2	9.4	8.6	clear	E 404		•	1		-
<u> </u>	32.2	8.3	9.7		clear	5.684	457	20			
3	- 33.3	5.0,		8.9	clear	5.684 5.656	457	20			
4 4	31.1	8.3	10.6	9.2	clear	5.628	•				•
5	29.4	8.3	10.3	9.2	clear	5.684	323	32			
6	26.7	2.2	10.6	9.2	clear	5.684	020	32			
7	27.8	5.6	10.6	10.0	clear	5.684					
8	20.6	7.8	10.0	9.4	cloudy	5,684	•			1	
9	15.6	11.1	10.0	9.7	cloudy	5.768	•				
10	15.6	10,.0	9.7	9.4	rain	5.796	327	25			
11	15.6	7.8	9.7	8.9	rain	5.712	02.				
. 12 _	16.7	7.8	9, 7	9.2	oloudy	5.628	212	5	•	. 48	
13	20.16	7.8	9.7	8.9	cloudy	5.628	210	·		4-	·
14	12.2	8.9	, 9.2	8.9	rain	5,628					
15	12.8	8.9	9.2	8.9	rain	6.552					
16	18.9	7.8	8.9	8.9	cloudy	7.112	657	33	;	10	•
17	18.9	7.8	9.2	8.6	cloudy	7.140			,		•
18	22.8	8.3	8.9	8.9	clear	7.140					
19	21.1	6.	9.4	8.9	clear	7.224	626	36		25	
20	20.0	6.7	9.7	8.9	clear	7.224					
21	21.1	6.7	9.4	8.9	clear	7.252					
22	21.1	8.3	9.4	9.2	clear	7.308					•
, 23	22.2	9.4	9.7	19.2	clear	7.308					
21	_ 21.1	. 7.2	10.0	9.2	clear	7.280	563	. 10	3	50	
25	24.4	-0.6	9.7	8.9	clear '	7.252	•				
26	21.1	0.6		8.6	clear	7.252	; 401	23		. 107	
27	18.9	-1.1	9.2	8.3	cl e ar	7.224					
28	11.1	71.1	8.3	8.1	cloudy	7.224					
<u> </u>	12.2	-2.8	8.1	7.8	clear	7.140					
30	14.4	-5.0	8.1	7.5	clear	7.112	312	55	5	83	2
31	15.6	-3.3	7.8	7.2	dloudy	7.112					
TOTALS			•				3,878	239	8	283	2

^{*} Temperatures recorded in F, and later converted to C.

*** Galculated equivalents of USGS records of flows in cfs.

		Cemperatu			_	Flow of Trinity River			1	Fish tra	apped	
	Air		Wat			. at Lewiston	K	ing	salmon			
November	Maximum	Minimum	Maximum	Minimum.	Weather	(m ³ /sec**)	ĀĀ	ults	Grilse	Adults	Grilse	Steelhead
1	8.9	4.4	7.5	7.2	rain	7.112						•
2 1	18.3	5.6	8.1	7.5	clear	7.084		114	12	2	124	-
3	11.1	5.6	7.8	7.8	rain	7.196		TT4	14		136	_ <u>·</u> <u>‡</u>
4	15.0	6.7	8.3	8.1	rain	7.196						
5	13.9	1.1	8.6	7.8	clear	7.224						
6_	12.2	1.1	8.3	7.8	cloudy	7.224		105	22	6	475	
7	6.7	4.4	8.1	8.1	rain	7.224	•		22	Ū	770	
8	14.4	1.1	8.6	7.8	clear	7.196	•					
9	- 5.6	2.12	8.1	8.1	rain	7.224		39	3	10	438	7
10	7.8	3.3	8.1	7.8	cloudy	7.224					· · ·	
' 11	12.8	2.8	8.1	7.8		Lear 7.224					4	•
12	11.7	2.8	8.1	7.8	cloudy	7.224						
13	7.8	5.6	77.8	7.8	cloudy	7.224		9	1	7	393	
14	10.0	4.4	7.8	7.5	cloudy-ra				_	;	0,0	-
15	8.9	5.6	7.8	7.5	rain	6.356 ·						
16	8.9	8.9	7.8	7.5	cloudy-ra	in 5.684				8	322	•
-17	7.8	2.2	7.8	7.5	clear	5.600						
18	17.2	1.1	8.1	7.5	partly cl	loudy5.600				*		
19	10.6	3.3	7.8	7.5	partly cl	loudy5.600						
20	11.1	1.1	7.8	7.5	clear	5.600				6	123	•
21	6.7	1.1	7.8	7.5	rain	5.600						
' 22	14.4	4.4	2.1	7.5	clear	5.600						
23	12.2	0.6	8.1	7.5	clear	5.600			į			
24	8.9 '	1.1	7.8	7.5	clear	5.600						
25	10.0	1.1;		7.5	clear	5.600	,			•		
26	13.3	2.8	7.8	7.5	clear	5.600						
27	12.2	3.3	7.8	7.5	clear	5.600				4	180	
28	14.4	2.8	8.1	7.5	clear	5,600						
29	13.3	1.1	7:8	7.5	clear	5.600						•
30	,10.0	1.7	7.8	7.5	clear	5,600				2	134	
TOTALS	r i		•					:67	38 .	45	2,201	2

^{*} Temperatures recorded in F, and later converted to C.

** Calculated equivalents of USGS records of flows in cfs.

		Temperatu	re (C*)			Flow of Trinity River	•	Tich 4	20003	
	\overline{Ai}		Wat	or	•	at Lewiston	Ving onland	Fish tra	apped	
December		Minimum	Maximum	Minimum	Weather	(m ³ /sec**)	King salmon Adults Grilse	3dulte	Crilco	Stoolbood
		11211211017	·	1121121110111		(111 / 3000)	Mudica Gilise	Addito	GLIISE	Steernead
1	10.0	1.1	7.8	7.5	fog-clear	4.872	•			
2	4:4	1.1	7.5	7.5	fog	4.312				
3	1.1	0.0	7.2	7.2	snow	4.340				•
<u></u>	4.4	-1.1'	7.2	6.9	cloudy	4.340		3	72	
5	0.0	-5.6	6.9	6.9	snow	4.340				
•6	4.4	-4.4	6.7	6.7	snow	4.368				
7	1.1	-5.6	6.7	6.4	snow	4.368		1	33	
8	-3.3	-16.7	6.1	5.8	clear	4.368		_		
9	-2.2	-18.3	5.6	5.3	cloudy	4.368		•	1	
10	-1.7	-16.7	5.3	5.0	clear	4.368	•			
11	0.0	-13.9	5.0	4.4	clear	4.368		1	23	
12	1.1	-10.0	4.4	4.4	snow	4.424		, –		
' 13	-0.6	-5.6	3,9	3.9	cloudy	4.396			4	•
14	1.1	-6.1	3.9	3.6	cloudy	4.368	· ·			
15	1.7	-6.1	3.9	3.6	cloudy	4.368				
16	3.3	0.6	3.9	3.6	rain	4.452		}		•
17	4.4	0.6	. 4.7	4.4	rain	4.508				
18	4.4	1.1	5.3	5.0	rain	4.508				•
19	8.9	2.2	6.1	5.6	cloudy	4.508				
20	8.9	3.3	6.4	6.1	cloudy	4.424		•		
21	9.4	4.4	6.7	6.7	rain	4.424				
22	12.2	4.4	6.9		cloudy	4.368				
23	11.1	5.6	6.9	,6.7	rain	4.340				
' 24	10.0	5.6	7.5	6.7	clear	4.340	•			
25	8.9	1.1	7.2	7.2	clear	4.368				
26	3,3	0.6	7.2	6.9	cloudy	4.340				
27	13.3	0.0;	7.2	6.9	rain	4.368	,	•		
25	6.7	-2.2	7.2	6.7	clear	4.340				
20	2,2	- /3.3	6.9	6.7	cloudy	4.340				
30	14.4	-2.2	6.7	6.7	cloudy	4.340				
31	5.6	-2.2	6.7	6.4	fog	4.340				
WOT IT								5	128	

^{*} Temperatures recorded in F, and later converted to C.
** Calculated equivalents of USGS records of flows in cfs.

	Ai		re (C*)			Flow of Trinity River		1	Fish tra	ped	
January '	Maximum		Wate			at Lewiston	King	salmon	Silver s	salmon	
andity	Maximum	MINITERAL	Maximum,	MINIMUM	Weather	$(m^3/sec**)$		Grilse	Adults (Grilse	Steelhead
1 '	6.7	-3.9	6.7	6.1	clear	4.340					
2	10.0	-2.2	6.4	6.1	clear	4.312					
3	: 6.7	-5.0	6.4	, 6.1	clear	4.312					
4	5.6	-5.0	6.1	5.8	clear	4.312					
5	5.6	-7.2	6.1	5.6	clear ·	4.312					
6	6 .1 .	-6.7	5.8	5.6	clear	4.340	1				
. 7	5.0	-7.8	5.6	5.6	clear	4.340	•				
8	0.6	-6.7	5.3	5.3	snow	4.340				,h	
ò	2.8	0.0	5.3	5.0	rain	4.368					
10	1.7	0.6	5,3	5.0	rain	4.368				ι*	
11	3.3	0.6	510	5.0	rain	4.564					
12	6.1	1.1	5.3	5.0	rain	4.480		•			
13	10.6	3.3	5.6	5.0	cloudy	4.452	•				•
14	7.8	1.7	.6.4	5.6	cloudy	4.424					
15	5.6	2.2	6.1	6.1	•	÷ 1 4.480					
16	12.2	4.4	6.1	6.1	rain	4.676	•				
17	6.7	1.7	6.1	6.1	rain	4.508		•	• .		
18	1 8.3	3.3	6.4	6.1	cloudy	4.508	•				
19	8.3	-2.8	6.1	5.8	clear	4.368		,			
20	7.8	-3.3	6.1	5.8	cloudy-ra			,			•
21	2.8	0.0	6.1	6.1	cloudy	4.312	•				
_22	8.9	-1.1	6.4	6.1	clear	4.284				•	5
23	9.4	-1.1	6.4	6.1	clear	4.284					
24	0.0	-0.6	6.1	6.1	rain	4.312					
25	7.2	0.0	6.1	.6.1	cloudy	4.312					
26	3.3	-2.2	6.1	5.8	cloudy	4.312	•				9
27	5.6	-3.3	6.1	6.1	clear-clo	udy 4.312				***************************************	
28	12.2	-2.2	6.1	5.8	clear	4.312					
29	5.0	0.0	5.8	5.8	rain	4.312					3
30	7.8	1.7	6.1	5.8	rain	4.312			***		
31	10.0	-1.1	6.1	5.6	clear	4.312					

^{*} Temperatures recorded in F, and later converted to C.
** Calculated equivalents of USGS records of flows in cfs.

_							`` `	•	
		Temperatu	re (C*)			Flow of Trinity River			
	Ai		. Wat	er	•	'at Lewiston.	Vine1	Fish trapped	
February	Maximum	Minimum	Maximum	Minimum	Weather	(m ³ /sec**)	King salmon	Silver salmon	
			IRIXIIII	HEHEMAN	wearner	(1110/366.11)	Adults Grilse	Adults Grilse	Steelhea
. 1	12.2	-1.1	6.1	. 5.8	clear	4.312			•
2	11.7	0.6	6.4	5.8	cloudy	4.312	,		
3	10.0	3.3	6.1	6.1	rain	4.340			•
4	6.7	3.3 .	6.4	6.1	rain	4.396			
5 '	10.0	3.3	6.7	6.4	cloudy	4.396	•		•
Þ	8.9	4.4	6.7	6.4	rain	4.424			
7	9.4	4.4	6.7	6.4	rain	4.424			
8	8.3	3.9	6.7	6.7	rain	4.424			
99	10.0	5.6	6.9	6.7	cloudy	4.452		:	7
10	7.8	2.8	6.9	6.7	rain	4.424			7
11	11.7	218	6.9	6.7		lear 4.396			
12	7.8	0.6	6.7	6.4	rain-clo				
• 13	10.0	3.3	6:9	6.4	cloudy	4.368		d	19
14	10.ρ	4.4	6.9	6.7	rain	4.396		1	19
15	15.6	. 1.1	7.2	6.7	clear	4.368			
16	17.8	1.7	7.5	6.7	clear	4.368			13
17	15.6	1.7	. 7.2	6.9	clear	4.340		_;	
18	18.3	-3.3	7.8	6.9	clear	4.340			
. 19	18.9	-4.4	7.8	6.7	clear	4.340			
20	20.0		7.8	6.7	clear	4.340		•	3
21	21.1	-2.8	7.8	6.7	clear	4.340			
22	14.4	-1.1	7.8	6.9	clear	4.368			5
23	13.3	-0.6	7.2	6.9	cloudy	4.396			<u>_</u>
24	10.0	5.6	6.9	6.9	rain	4.340			
25	11.1	. 5.6	7.2	6.9	rain .	4.340	•		
26	8.3		7.2	6.9	rain	4.256	•		21
27	8.9	4.4.4	7.2	6.9	rain	4.200	j	•	<u> </u>
28	12.2	5.0	7.2	6.9	rain	4.144			
TOTAL		1 ,							68

^{*} Temperatures recorded in F, and later converted to C.
** Calculated equivalents of USGS records of flows in cfs.

	Ai	Temperatu r	re (C*) Wat	· or		Flow of Trinity River at Lewiston	Ving only	Fish trapped		_
March	Maximum		Maximum		Weather	(m ³ /sec**)	Adults Grils	Silver salmon Adults Grilse	Steelhead	
<u>, </u>	13.3	2.2	7.2	6.9	cloudy	4.032			20	- ,
# 2	16.7	0.0	7.8.	7.2	clear	4.116				-
3	. 6.1	1.1	7.5	7.2	rain	4.11ó				
4	11.1	1.7	7.8	7.5	cloudy	4.116				
5	13.9	0.0	8.1	7.5	cloudy .	4.116	·		20	
6	7.2	2.8	7.8	7.5	rain	4.144	1			
· 7	10.6	1.1	8.3	7.5	cloudy	4.200	•			
88	16.7	l.l	8.3	: 7.5	cloudy	4.200		<i>i,</i>	18	
9	18.9	3.3	8.3	7.8	clear	4.200				
10	17.8	6.7	78	7.8	clear	4.144		· ' ' '		
11	18.9	1.1	7. 8	7.8	cloudy	4.060		·		
12	15.0	-3.3	7.2	6.9	clear	4.116	•		20	
13	11.7	-0.6	6.9	6.7	cloudy	4.144				•
, 13 , 14	17.8	-3.3	7.2	6.4	clear	4.144				
15	23.3	-1.7	7.5	6.7	clear	7.224	•		3	
16	13,9	3,9	7.8	6.9	cloudy	9.744	• .		15	
17	8.9	-1.1	7.2	6.9	cloudy	9.604		• .		
18	13.3	-3.3	7.2	6.7	cloudy		•			
19	6.7	5.6	6.7	6.7	rain	9.464		•	16	
20	8.9	0.6	6.9	6.7	rain	9.604	,			
21	5.6	0.0	. 6.7	6.4	snow :	9.688		·		
22	14.4	-2.2	7.2	6.4	clear	9.548		•	1	
23	20.0	-1.1	7.2	6.4	clear	9.492				
24	20.6	-1.1	7.8	6.9		oudy9.492		;		
25	19.4	$\frac{-1.7}{1.7}$	8.1	7.2		oudy9.464		•		
26	18.9	2.2	7.8	7.2		oudy9.464	•		24	
27	14.4	-2.2	7.2	7.2	cloudy-ra				***************************************	
28	13.9	-2.8	7.8	7.2	clear	9.744				
29	14.4	-2.2	7.2	6.9	cloudy	9,716			12	
30	6.7	3.3	7.2	6.9	rain	7.896				*****
31	12.8	0.0	7.2	6.9	clear-rai					
TOTALS									149	-

^{*} Temperatures recorded in F, and later converted to C.
** Calculated equivalents of USGS records of flows in cfs.

		 		·		1			•
		Temperatu	re (C*)			flow of Trinity River			
	Air Water				•	at Lewiston	King salmon	<u> </u>	
April	Maximum	Minimum	Maximum	Minimum	Weather	(m ³ /sec**)	Adults Grils	e Adults Gril	<u>ion</u> .se Steelhead
•	70.0	b 0	- · · · ·						
1	13.9	-2.2	6.9	6.7	02002	4.424	•	(
2	17.8	-3.9	7.5	6.9	clear	4.396		- 	17
3	22.2	-3.3	7.8	7.2	clear	4.368			
4	26.7	-1.7	8.3	7.2	clear	4.368			
-5 1	27.8	1.1	8.9	7.8	clear	4.340			•
6	26.1	1.7	8.3	7.8	clear	4,312			4
7	23.3	, 0.0	8.6	7.8	clear	4.284			
8	26.7	-1.1	9.4	8.3		:loudy4.284			
9	25.6	2.2	9.2	8.3	cloudy	4.284	·		<u> </u>
10	26.7	4.4	9.4	8.3	clear	4.256	•		
11	25.6	3 ₄ 3	10.0	9.7		oudy 4.284			
12	18.9	3.9	10.0	10.0		loudy4.312		· · · · · ·	3
, 13	15.0	5.6	9.7	9.2	cloudy	4.340		4	•
14	21 ₁ 1 17.8	2.2	9.2	8.0	clear	4.340		•	
15	17.8	. 4.4	, 9.4	8.6	cloudy	4.312			
16	13.3	7.8	9.2	8.9	rain	4.340			. 1
17	12.2	4.4	8.6	8.6	clear	4.368		,	
18	. 13.3	-2.8	8.3	8.1	cloudy	4.340			
19	15.6	-1.1	8.6	7.8	clear	4.340			_5
.20	16.7	-1.1	8.1	7.8	clear	4.340		:	
21	24.4	6.7	9.2	8.1	clear	4.368			
22	26.7	10.0	9.2	8.3	clear	4.368			
23	26.7	1.1	9.4	8.3	clear	4.396			•
24	26.7	2.2	9.2	'8.6	clear	4.396			
25	31.1	. 2.8	10.0	9.2	clear	4.368	•		
26	32.2	5.0	10.8	9.2		oudy 4.368	•		
27	28.9	5.6		8.9		loudy4.424	j	• •	
28	26.7	11.1	8.9	8.9	cloudy	4.452	•		
29	21.1	5. 6.	8.9	8.9	clear	4.452			
30	, 23.3	0.0	9.7	9.4	clear	4.480			
TOTALS			<u> </u>			· · · · · · · · · · · · · · · · · · ·			33
						····			

Temperatures recorded in F, and later converted to C. Calculated equivalents of USGS records of flows in cfs.

		Temperature (C*)			'Flow of Trinity River			Fish trapped					
	Ai		Wat	ėr	-	at Lewiston		King	salmon	Ciluan	appeu		
May	Maximum	Minimum	Maximum	Minimum	Weather			Adults	Grilse	Adults	Grilse	Steelhead	
1	25.0	i.1	10.8	8.6	clear	4.340	,					0 10021.000	
2	23.3	4.4	10.6	8.9		4.340 cloudy4.340							
3	22.2	4.4	10.0	9.4		cloudy4.340 cloudy4.340							
4	17.2	6.7	10.8	10.3		cloudy4.340							
5	24.4	0.6	11.1	10.6	clear	4.340			1				
6	24.4	3.3	11.7	11.1	clear	4.340							
7	24.4	5.6	12.2	11.1	clear	4.340		1					
8	26.7	5.6	12.8	11.9	clear	4.340		•	•		l l		
9	27.8	2.2	12.8	12.2	cloudy	4.340					,,		
10	28.3	3.3	13.3	12.5	clear	4.340			•				
11	32.2	3.3	13v l	12.8	clear	4.340					ı,		
12	35.6	6.1	10.8	10.8	clear	4.368							
13	34.4	8.9	11.7		clear	4.368			•				
14	35.0	11.1	10.6	10.0	cloudy	4.340	•					•	
15	33.3	9.4	10.8	9.4	clear	4.340							
16	35.6	10.0	10.6	9.4	clear	4.340			1				
17	37.8	11.1	10.6	8.9	clear	4.340	•		•				
18	35.6	$\overline{n}.\overline{1}$	10.6	9.2	clear	4.340			•				
19	30.6	6.7	10.0	9.2	clear	4.340	•						
20	28.9	5.6	10.0	8.9	clear	4.340			1			.,	
21	31.1	8.9	10.3	8.9	clear	4.340				•			
22	30.0	6.7	10.0	8.9	clear	4.284		•					
23	26.7	7.2	9.4	9.4	cloudy	4.284							
24	25.6	11.1	9.2	8.9	rain	4.284				:			
25	21.1	8.3	8.9	8.3	cloudy	4.284							
26	23.3	1.1	9.4	8.1	cloudy	4.284			•				
27	29.4	6.1	10.0	8.6	cléar	4.256	•						
28	35.6	6.7	10.3	8.9	clear	4.284							
2 9	36.7	8.3	11.4	9.2	clear	4.284						4	
30	31.7	13.3	10.0	9.4	cloudy	4.256			•				
31	23.3	12.2	9.2	9.2	cloudy-r								
TOTALS	2010		/ • 2	7.6	CIOUUY-1	arn 4.230					~		

^{*} Temperatures recorded in F, and later converted to C.
** Calculated equivalents of USGS records of flows in cfs.

		Temperatu	re (C*)	· · · ·		Flow of Trinity River	Tigh toward					
	Ai	r	Water		,	at Lewiston	Fish trapped King salmon Silver salmo					
June		Minimum	Maximum	Minimum	Weather		Adults	Grilse	Adults	Grilse	Steelhead	
1	29.4	11.1	9.4	8.6	clear	4.200		•	1			
1 2 3	27.8	12.2	10.6	8.9	cloudy	4.200				•		
3	28.9	6.7	10.6	9.4	clear	4.172					•	
4	34.4	· 5.6	11.4	10.6	clear	4.200						
	35.0	7.2	11.7	10.6	clear	4.228						
5 ზ 7	36.1	10.0	11.1	10.3	clear	4.256						
	35.6	8.3	11.1	10.6	clear	4.340						
8	37.2	10.0	11.1	10.8	clear	4.340	Ŧ			:		
9	36.7	11.1	11.1	10.8	clear	4.340						
10	32.2	8,3	11.1	10.6	clear	4.340						
11	31.1	7.8	11.1	1d.o	clear	4.312						
12	27.8	8.9	10,6	10.0	cloudy	4.312			•	•		
13	23.3	10.0	10.3	10.0	cloudy	4.312				4	•	
14	23.3	3.9	10.6	9.7	cloudy	4.284						
15	24.4	3.3	'10.0	9.4	clear	4.284						
16	21.7	10.0	10.3	9.7	partly	cloudy4.284			:		•	
17	20.6	7.8	9.7	9.4	clear	4.312						
18	29.4	3.3	10.3	9.4	clear	4.312						
19	35.6	3.3	11.1	9.4	clear	4.312						
20	38.9	9.4	10.8	9.7	clear	4.312			•			
21 .	35.6	10.6	11.1	10.0	cloudy	4.312						
22	28.3	12.8	10.8	10.0	clear	4.312					•	
23	29.4	13.3	10.3	10.3	cloudy	4.340						
24	32.2	8.3	10.6	9.7	clear	4.312	1					
25	33.3	12.2	11.1	9.7	clear	4.312		•				
26	39.4	12.2;	, 11.4	10.3	clear	4.312						
27 .	38.9	12.2	. 11.9	10.6	clear	4.368			•			
25	37.8	14.4	11.1	10.6	clear	4.368						
29	.34.4	13.3	11.1	10.2	clear	4.368						
30	31.7	7.8	11.1	10.0	clear	4.368			·		·	
GRAND T	OT L		,-				11,042	339	58	2,612	271	

^{*} Temperatures recorded in F, and later converted to C.
** Calculated equivalents of USGS records of flows in cfs.