# REF 90199

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ANNUAL REPORT IRON GATE SALMON AND STEELHEAD HATCHERY, 1973-741/

by

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#### ABSTRACT

This report describes the operation of the hatchery from July 1, 1973 through June 30, 1974. The hatchery was constructed to maintain runs of king salmon (Oncorhynchus tshawytscha), silver salmon (O. kisutch) and steelhead (Salmo gairdnerii gairdnerii) that formerly utilized spawning and rearing areas upstream from Iron Gate Dam on the Klamath River.

Tables present daily records of water temperatures and weather condition, daily numbers of salmonids entering the hatchery, and total numbers of salmonids reared and released.

<sup>&</sup>lt;u>1</u>/ Anadromous Fisheries Branch Administrative Report No. 75-2. Submitted July 1974.

#### INTRODUCTION

This report covers the thirteenth 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 ninth 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 13 km (8 miles) east of the town of Hornbrook, Siskiyou County.

The report summarizes the numbers of fish trapped and spawned, production of eggs and fish, and water and weather conditions from July 1, 1973 through June 30, 1974.

#### PRODUCTION SUMMARY

The first fall-run king salmon arrived at the Iron Gate trapping facilities on September 10, 1973, and the last on November 16, 1973.

Spring-run king salmon were taken from July 1 until July 19, 1973 (for spawning in the fall of 1973), and from June 5 until June 10, 1974 (for spawning in the fall of 1974). Silver salmon started entering the trap September 21, 1973, and continued until January 4, 1974. Steelhead trout were trapped from September 21, 1973 to April 30, 1974 (Figure 1). Production data are as follows:

	Adults trapped	Females spawned	Number eggs taken	Number fingerlings <u>planted</u>	Number yearlings planted	Total weight planted (kg)	Fish on hand June 30, 1974
King salmo 1972 BY 1973 BY	8,702	3,933	11,578,645	6,150,000	110,000 0	6,237 33,153	0 0
King salmo 1972 BY 1973 BY 1974 BY	23* 4	22	76,395	0	36,000 0	1,853	0 23,000 0
Silver sal 1972 BY 1973 BY	1mon 841	177	405,003		10,000	313	0 178,000
Steelhead 1973 BY 1974 BY	1,865	768	1,454,558	421,504	200,800	9,018	0 600,000 🥪

\* A total of 49 1973 brood year spring-run adults was trapped during the previous reporting period. Surviving fish from this group were combined with 23 trapped this year for spawning in the fall of 1973.

# KING SALMON MAINTENANCE PROGRAM

History of the 1973-74 Run

#### Spring Run 1973 Brood Year

Between July 1 and July 21, 1973, 23 1973 brood year spring-run king salmon were trapped. Five of these were grilse. They were added to the 49 1973 brood year spring-run king salmon taken in June 1973, and the combined group was spawned in the fall of 1973. The fish ladder was closed in late July 1973 to conserve the cold water pool in Iron Gate Reservoir.

Twenty-two spring-run females were spawned. They produced 76,395 eggs. This was an average of 3,473 eggs/female. A total of five lots of eggs was taken. The average fertility of these eggs was 83%. Spring-run and fall-run salmon are being reared separately. None were planted. We had approximately 23,000 fingerlings on hand June 30, 1974. All will be held for release as yearlings next fiscal year.

#### Fall Run, 1973 Brood Year

The fish ladder was reopened September 9, 1973. A total of 8,702 fall-run king salmon was trapped: 3,273 males, 4,135 females, and 1,294 grilse. There were 3,933 fall-run king salmon females spawned, producing 11,578,645 eggs, for an average of 2,944 eggs/female. Prespawning mortality was 202 females (5%). Seventeen lots of eggs were taken from fall-run fish. The average fertility of the fall-run eggs was 78%. All resulting fingerlings (6,150,000) were planted from June 3 to June 14, 1974. Size at planting ranged from 5.0 to 6.5 g (see Table 1).

## Spring Run, 1974 Brood Year

The 1974 brood year spring-run king salmon began entering the trap June 5, 1974. Four adults and no grilse had been collected by June 30, 1974. These will be held and spawned in the fall of 1974.

### Planting Yearling King Salmon

A total of 146,000 yearling (1972 brood year) king salmon (36,000 springrun and 110,000 fall-run) were planted this season (see Table 1).

#### Table 1

King Salmon Planting Data, 1973-74 Season

Race and brood year	Date released	Average size	Number released	Release site
Spring run, 1972 BY	11/ 8/73 2/27/74	57 g (7.9/lb) 47 g (9.7/lb)	18,000* 18,000**	Hatchery outlet Hatchery outlet
Fall run, 1972 BY	11/ 2/73	57 g (8.0/lb)	110,000	Hatchery outlet
Fall run, 1973 BY	6/ 7/74	6.5 g (70/lb) 5.0 g (91/lb) 5.0 g (91/lb) 5.0 g (91/lb)	2,750,000	Hatchery outlet Hatchery outlet Hatchery outlet Hatchery outlet

\* Marked RV, to compare returns of fall-released fish with those of spring releases.

\*\* Marked LV, to compare returns of fall-released fish with those of spring releases.

#### Marked King Salmon Recovered

During fiscal year 1973-74 eight marked king salmon were trapped. Seven were Iron Gate marks; one was a stray (see following table).

Mark	Number trapped	Brood year	Race	Number released	Date released	··· •	Release site
LV	4	1970	Spring run	6,487	3/72	108 g (4.2/lb)	Iron Gate Hatchery
RV	3	1970	Spring run	6,486	11/71	76 g (6.0/lb)	
LV-RV	1	1969	Fall run	325,000	6/70	10.2 cm (4 inches) <u>FL</u>	Rogue River Oregon

#### SILVER SALMON MAINTENANCE PROGRAM

### History of the 1973 Run

The first silver salmon entered the trap September 21, 1973, and the last January 4, 1974. A total of 841 was trapped: 201 males, 212 females, and 428 grilse. Spawning of the 177 females produced 405,003 eggs for an average of 2,288 eggs/female. Egg loss was fairly high, primarily due to white-spot and soft-shell. We had approximately 178,000 fingerlings remaining on hand June 30, 1974. All were held to assure 75,000 for release as yearlings in Spring, 1975. Planting 1972 Brood Year Silver Salmon

Date	Average size	Number	Release site
11/9/73	31 g (14.5/1b)	10,000	Hatchery outlet

#### STEELHEAD TROUT MAINTENANCE PROGRAM

History of the 1973-74 Run

Between September 21 and November 27, 1973, 665 adult steelhead entered the trap and were placed in the holding ponds to await spawning in the spring. An additional 1,200 adult steelhead were trapped in the spring between January 4 and April 30, 1974. For the sixth consecutive year, these two groups were held and spawned separately. One hundred seventy females from the fall-trapped group produced 292,473 eggs, an average of 1,720 eggs/female. Five hundred and ninety-eight spring-trapped females produced 1,162,085 eggs, an average of 1,943 eggs/female. This made a total of 1,454,558 steelhead eggs, from 768 females, for the season. We had approximately 600,000 1974 brood year steelhead fingerlings on hand June 30, 1974.

#### Marked Steelhead Trapped

A total of 46 marked steelhead was trapped this season. Of these 42 had been reared at Iron Gate Hatchery. The Ad-RV were progeny of fall-trapped adults. The LV-RV were progeny of the spring-trapped adults (see following table).

Mark	Number trapped	Brood year	Number released	Date released	Average size at release	Release site
Ad-RV	23	1970	50,000	5/3/71	45 g (10/lb)	Iron Gate Hatchery
LV-RV	19	1970	50,000	5/3/71	44 g (10.4/lb)	Iron Gate Hatchery
Ad-LV	4	1969	36,113	Mar. 70	12.7 cm FL	Upper Rogue River

Planting 1973 Brood Year Steelhead

A total of 622,304 1973 brood year steelhead was planted this season: 400,000 fingerlings in 1973, and 21,504 fingerlings in 1974, and 200,800 yearlings in 1974 (see following table).

Date	Average size	Number	Release site
8/23/73	0.75 g (600/lb)	200,000	Hatchery outlet
11/27/73	3.5 g (130/1b)	200,000	Hatchery outlet
3/ 1/74	10.8 g ( 42/1b)	21,504	Hatchery outlet
TOTAL FINGER	LINGS	421,504	
5/ 8/74	45 g (10/lb)	97,800	Fish ladder outlet
5/ 8/74	35 g (l3/lb)	83,000	Fish ladder outlet
5/20/74	30 g (15/1b)	20,000	Fish ladder outlet
TOTAL YEARLI	NGS	200,800	
TOTAL 1973 B	ROOD YEAR	622,304	

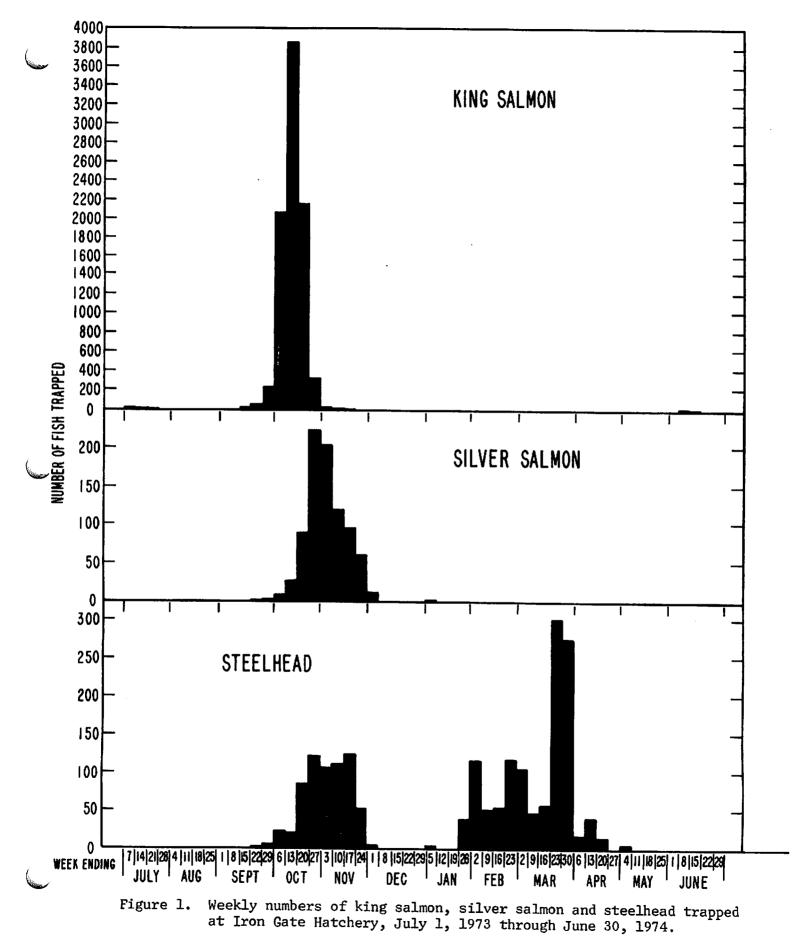
Planting, 1973 Brood Year Steelhead

On April 24, 1968, the Department entered into an agreement with the Pacific Power and Light Company and the Oregon Game Commission to rear, mark and release 100,000 yearling steelhead at Iron Gate Hatchery annually for a 4 year period. These fish are in addition to the normal steelhead production. The goal of the program was to establish a steelhead fishery in the river above Copco Lake. According to this agreement, a portion of the surplus adult returns is trucked to the upper Klamath River by the Oregon Game Commission.

This year, 650 adult steelhead trapped at Iron Gate Hatchery were transported by the Oregon Game Commission and planted in the Klamath River above Copco Lake.

#### PUBLIC RELATIONS

During 1973-74 fiscal year, 6,207 people visited the hatchery. Included in the total were 1,610 people in many organized groups which were conducted through the installation.



# Appendix Table 1

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# Yearly Comparison of Fish Trapped at Iron Gate Salmon and Steelhead Hatchery July 1, 1965 through June 30, 1974

Species	7/1/65 through 6/30/66	7/1/66 through 6/30/67	7/1/67 through 6/30/68	7/1/68 through 6/30/69	7/1/69 through 6/30/70	7/1/70 through 6/30/71	7/1/71 through 6/30/72	7/1/72 through 6/30/73	7/1/73 through 6/30/74	
King Salmon Nale Female Total Adults Grilse Total	141 224 365 313 678	1,129 1,610 2,739 325 3,064	850 1,275 2,125 562 2,687	972 1,714 2,636 78 2,764	539 474 1,013 1,917 <b>2,9</b> 30	2,889 7,395 10,284 219 10,503	4,413 6,033 10,526 <u>315</u> 10,846	1,126 1,919 3,200* 484 3,684*	3,273 4,135 7,430** 1,299*** 8,729	
Silver Salmon Male Female Total Adults Grilse Total	2 0 2 0 2	2 2 4 0 4	27 24 51 28 79	14 10 24 333 357	84 118 202 749 951	716 671 1, 387 236 1,623	74 52 125 21 146	38 18 56 35 91	201 212 413 428 841	1 60 1
Steelhead Spring Trap Fall Trap Total Adults	227	299	984	370	813 381 1,194	2,073 292 2,365	3,583 174 2,757	l,060 226 l,286	665 1,200 1,865	·····

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This total includes 155 unsexed spring-run king salmon. This total includes 22 unsexed adult spring-run king salmon. \*\*\*

This total includes 5 spring-run king salmon grilse. \*\*\*

# Appendix Table 2

Iron Gate Salmon and Steelhead Hatchery Weather, Water, and Fish Data Report July 1, 1973, through June 30, 1974

	I	emperature	(C*		· · · · · · · · · · · · · · · · · · ·			Fish Trappe	d	
	a.	er		ir		King Sa	almon	Silver	Salmon	Steelhead
July	Maximum	linimum	Haximum	Minimum	Weather	Adults	Grilsc	Adults	Grilse	Trout
123456789	9.4	8.3	30.6	3.9	clear	6	3			
2	9.4	8.3	32.6	7.2	clear		-			
3	8.9	8.3	33.9	9•4	clear	4				
4	10.0	8.3	32.6	11.0	clear	-				
5	10.0	8 <b>.</b> 9	32.6	11.0	clear					
6	9•4	8.9	26.7	9.4	clear	4				
7	9•4	8.3	32.6	7.2	clear	-				
8	10.0	8.3	31.7	9.4	clear					
9	9.4	8.9	37.2	10.0	clear					
10	10.0	8.9	31.7	12.2	clear					
11	10.0	8.9	31.1	12.2	clear	3	2			
12	10.0	8.9	31.1	12.2	cloudy	•				•
13	9.4	8.9	35.6	10.0	clear					
11 12 13 14 15 16 17 18	10.0	8 <b>.</b> 9	35.6 35.0 37.8	11.0	clear					
15	10.0	8.9	37.8	12.2	clear					
16	10 <b>.0</b>	8 <b>.9</b>	36.7	12.2	clear					
17	10.6	8.3	37.2	16.7	clear					
18	10.0	8.9	37.2	13.3	clear					
19	10.0	8.9	36.7	12.8	rain	1				
20	10.6	8.3	29.4	11.0	cloudy					
21	10.0	8.3 :	28.9	8.9	clear					
22	10.0	3.9	26.1	6.7	clear					
23 24	10.0	8.9	27.2	6.7	clear					
24	10.6	8.9	33.3	6.7	clear					
<b>25</b> 26	10.6	8.9	36.1 37.2	6.7	clear					
26	10.6	8.9	37.2	6.7	clear					
27 28	10.6	8.9	36.7	14.4	clear					
28	10.6	8.3	37.8	13.3	clear					
29	10.6	8 <b>.9</b>	36.7	12.8	clear					
30	10.6	8.9	37.2	13.3	clear					
31	10.6	8.9	37.8	19.4	clear					
ls						18	5	· · · · · · · · · · · · · · · · · · ·		

\* Temperature measured to nearest whole degree F, and later converted to C.

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10.6	8.9		12.8	clear					
		33.9	12.2	clear					
10.6	8.3	34•4	12.8	clear					
	8.9	33.9	11.7	clear					
	8.9	33.9		clear					
	8.9	32.6		clear					
	8.9	35.0		clear					
	8.9	31.1	13.9	clear					
	8.9	32.2	10.6	clear					
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	8.9	31.1	6.1	clear					
	9.4	32.2	6.7	clear					
	10.0	32.2	8.3	clear					
	9.4	30.0	7.8	clear					
	9•4	27.2	6.7	clear					
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	9.4	22.2	5.6	rain					
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$10.6$ $8.9$ $35.6$ $11.7$ $clear$ $10.6$ $8.9$ $35.6$ $11.7$ $clear$ $10.6$ $8.9$ $33.9$ $11.7$ $clear$ $10.6$ $8.9$ $33.9$ $11.7$ $clear$ $10.6$ $8.9$ $30.6$ $6.7$ $clear$ $11.0$ $8.9$ $31.1$ $6.1$ $clear$ $11.0$ $8.9$ $31.1$ $6.1$ $clear$ $11.0$ $9.4$ $32.2$ $6.7$ $clear$ $11.0$ $9.4$ $32.2$ $6.7$ $clear$ $11.0$ $9.4$ $22.2$ $5.0$ $cloudy$ $11.0$ $9.4$ $22.2$ $5.6$ $rain$ $10.6$ $10.0$ $23.9$ $4.1_1$ $cloudy$ $11.0$ $9.4$ $22.2$ $5.6$ $rain$ $10.6$ $10.0$ $23.9$ $4.1_1$ $cloudy$ $11.0$ $9.4$ $28.9$ $6.7$ $cloudy$ $11.0$ $9.4$ $28.9$ $6.7$ $cloudy$ $11.0$ $9.4$ $28.9$ $8.9$ $clear$ $11.0$ $9$	11.08.933.911.0clear11.08.932.611.7clear11.08.935.010.6clear10.68.931.113.9clear10.68.932.210.6clear10.68.932.210.6clear10.68.935.012.2clear10.68.935.012.2clear10.68.935.611.7clear10.68.937.211.0clear10.68.933.911.7clear10.68.930.66.7clear10.68.931.16.1clear10.68.931.16.1clear11.08.931.16.1clear11.09.432.26.7clear11.09.422.25.0cloudy11.09.422.25.6rain10.610.023.94.1cloudy11.09.422.25.6rain11.09.422.25.6rain11.09.428.96.7cloudy11.09.431.76.1clear11.09.433.33.9clear11.09.433.33.9clear11.09.428.98.9clear	11.08.933.911.0clear11.08.932.611.7clear11.08.935.010.6clear10.68.931.113.9clear11.08.932.210.6clear10.68.934.410.0clear10.68.935.012.2clear10.68.935.611.7clear10.68.935.611.7clear10.68.937.211.0clear10.68.933.911.7clear10.68.930.66.7clear10.68.930.66.7clear11.08.931.16.1clear11.08.931.16.1clear11.09.432.26.7clear11.09.427.26.7clear11.09.427.25.6rain10.610.023.94.4cloudy11.09.422.25.6rain10.610.023.94.4cloudy11.09.426.96.7cloudy11.09.433.38.9clear11.09.433.38.9clear11.09.433.38.9clear11.09.433.38.9clear11.09.423.98.9clear11.09.423.98.9 <td>11.08.933.911.0clear11.08.932.611.7clear11.08.935.010.6clear10.68.931.113.9clear11.08.932.210.6clear10.68.931.410.0clear10.68.935.012.2clear10.68.935.611.7clear10.68.935.611.7clear10.68.933.911.7clear10.68.930.66.7clear10.68.930.66.7clear11.08.931.16.1clear11.09.432.26.7clear11.09.422.25.0cloudy11.09.422.25.6rain10.610.032.26.7clear11.09.422.25.6rain10.610.023.94.4cloudy11.09.422.25.6rain10.610.023.94.4cloudy11.09.422.25.6rain10.610.023.94.4cloudy11.09.428.96.7cloudy11.09.433.33.9clear11.09.433.33.9clear11.09.433.33.9clear11.09.433.33.9<!--</td--><td>11.08.933.911.0clear11.08.932.611.7clear11.08.935.010.6clear10.68.931.113.9clear11.08.932.210.6clear10.68.935.012.2clear10.68.935.012.2clear10.68.935.012.2clear10.68.937.211.0clear10.68.933.911.7clear10.68.930.66.7clear10.68.930.66.7clear10.68.931.16.1clear11.08.931.16.1clear11.09.432.26.7clear11.09.422.25.0cloudy11.09.422.25.0cloudy11.09.422.25.6rain10.610.023.94.4cloudy11.09.422.25.6rain10.610.023.94.4cloudy11.09.428.96.7cloudy11.09.433.38.9clear11.09.433.38.9clear11.09.433.38.9clear11.09.436.96.9clear11.09.436.96.9clear11.09.436.96.9<!--</td--></td></td>	11.08.933.911.0clear11.08.932.611.7clear11.08.935.010.6clear10.68.931.113.9clear11.08.932.210.6clear10.68.931.410.0clear10.68.935.012.2clear10.68.935.611.7clear10.68.935.611.7clear10.68.933.911.7clear10.68.930.66.7clear10.68.930.66.7clear11.08.931.16.1clear11.09.432.26.7clear11.09.422.25.0cloudy11.09.422.25.6rain10.610.032.26.7clear11.09.422.25.6rain10.610.023.94.4cloudy11.09.422.25.6rain10.610.023.94.4cloudy11.09.422.25.6rain10.610.023.94.4cloudy11.09.428.96.7cloudy11.09.433.33.9clear11.09.433.33.9clear11.09.433.33.9clear11.09.433.33.9 </td <td>11.08.933.911.0clear11.08.932.611.7clear11.08.935.010.6clear10.68.931.113.9clear11.08.932.210.6clear10.68.935.012.2clear10.68.935.012.2clear10.68.935.012.2clear10.68.937.211.0clear10.68.933.911.7clear10.68.930.66.7clear10.68.930.66.7clear10.68.931.16.1clear11.08.931.16.1clear11.09.432.26.7clear11.09.422.25.0cloudy11.09.422.25.0cloudy11.09.422.25.6rain10.610.023.94.4cloudy11.09.422.25.6rain10.610.023.94.4cloudy11.09.428.96.7cloudy11.09.433.38.9clear11.09.433.38.9clear11.09.433.38.9clear11.09.436.96.9clear11.09.436.96.9clear11.09.436.96.9<!--</td--></td>	11.08.933.911.0clear11.08.932.611.7clear11.08.935.010.6clear10.68.931.113.9clear11.08.932.210.6clear10.68.935.012.2clear10.68.935.012.2clear10.68.935.012.2clear10.68.937.211.0clear10.68.933.911.7clear10.68.930.66.7clear10.68.930.66.7clear10.68.931.16.1clear11.08.931.16.1clear11.09.432.26.7clear11.09.422.25.0cloudy11.09.422.25.0cloudy11.09.422.25.6rain10.610.023.94.4cloudy11.09.422.25.6rain10.610.023.94.4cloudy11.09.428.96.7cloudy11.09.433.38.9clear11.09.433.38.9clear11.09.433.38.9clear11.09.436.96.9clear11.09.436.96.9clear11.09.436.96.9 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Appendix Table 2 (continued)

\* Temperature measured to nearest whole degree F, and later converted to C.

(

		emperature	(C*)					Fish Trappe	d	
<b>.</b>	!!a!		A				almon	Silver	Salmon	Steelhead
September	Maximum	Minimum	Maximum	Minimum	Weather	Adults	Grilse	Adults	Grilse	Trout
.1	11.7	9•4	23.3	4.4	clear					
2	11.0	10.0	30.6	6.7	clear					
3	11.0	•0•0	33.9	4.4	clear					
Ц	11.0	•0•6	36.1	6.7	clear					
5	11.0	9•4	34•4	7.8	clear					
6	11.7	10.0	26.7	6.1	clear					
7	11.7	10.0	18.9	11.7	cloudy					
8	11.7	9.4	28.9	6.7	clear					
9	11.0	10.6	32.2	10.6	clear					
10	11.0	10.6	33.3	10.0	clear	1	2			
11	11.0	10.6	32.2	10.0	clear	1 2	2 1			
10 11 12 13 14 15 16	12.2	10.6	33.3	8.3	clear					
13	11.7	10.6	31.1	6.7	pty cloudy					1
זע	11.7	10.6	25.5	5.6	clear					1
15	11.7	11.0	27.8	4.4	clear		3			ŀ
16	11.7	11.0	29.4	6.1	clear		-			
17	11.7	11.0	29.4	6.1	pty cloudy	3				
18	12.2	11.0	25.0	9.4	cloudy	-				
19	11.7	11.0	23.9	13.9	rain	10				
20	12.2	11.7	18.9	11.0	rain	18	4			
21	12.2	11.0	21.7	2.2	clear	7			1	1
22	12.2	11.0	13.3	5.6	rain	8	1 1		ī	ī
23	12.2	11.7	25.0	10.0	rain	•	-		-	-
21	12.2	11.7	18.9	9.4	rain	20	1		l	
214 25 26	12.2	11.7	20.0	4.4	clear	6	3		-	
26	12.2	11.7	26.1	4.4	clear	28	3 2		l	1
27	12.2	11.7	27.2	2.2	clear	71	12		-	2
27 28	12.2	11.7	26.1	3.3	clear	19	<u> </u>			2
29	12,2	11.7	29.4	4.4	clear	58	12 4 8		l	2
30	12.2	11.7	26.1	6.7	pty cloudy	91 91	12		ī	ī
tals					Fty decidy	342				10

\* Temperature measured to nearest whole degree F, and later converted to C.

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	Steelhead		ባ	m,	οı	Ś	ო	-1		ſ	1 07	Ն	<b>ب</b> ر	٦œ	ר יי ס כ		12 ግን	ב. בי	~ ;	ት	ຊາ:	Дт	0 0	۲ r	~ ~ c	25	37	92	- F	77	21,	4 6	72	705	¢7
q	Salmon		-1 0	N	r	- <b>1</b> (	Ч	2	Ч	1	I N	ſ	\ <u>`</u>	) _	-, t	4 0	ጉና	V	7	° ;	٦°	о с	۲ م ر	9	00	3 5	42	7 2	<b>1</b> ∝	5	22	20	2	200	20-
Fish Trapped	Silver Adulta									Ч	ч			N		10	10	- 7	<u> </u>	<b>)</b> (	ħα	ŭ	35	Ĩ	ں <u>ر</u>	;5	48	25	) <u>2</u>	1	37	: <del>7</del> 6	6	282	1
	Salmon Grilse	31		2 2 2	} {	15	ר ז יי יי	ት : :	21	ß	67	97	EOI	EILE		25	198	201	€ €	e e e e	) ਹ	<b>₹</b>	١¥	}-	-8-	יי ו	٦ کر	o ا	I		ſ	i		1,238	
1 1	King Se Adults	1001	192	271	182	268	007 70 F	2,2	96T	655	435	531	586	119	277	318	377	2112	317	264	991	62	52	96	9 <u>1</u>	0	33	ן פרן ו	é,	I	10	~		7,062	rted to C.
	Weather	clear	clear	clear	clear	clondy	uroudy moin		Apnora	croudy	pty cloudy	pty cloudy	pty cloudy	clear	clear	clear	clear	clear	clear	clear	cloudy	cloudy	rain	rain	rain	cloudy	clear	clear	clear	rain	clear	clear	pty cloudy		nd later converted
	r Minimum	1.1	000	-2.8		0.6	2.7	-00						س، س	<b>1.</b> 7	2•2	2 <b>°</b> 2	1.7	0 <b>•</b> 6	<b>1</b> ,1	1.1	8•9	8 <b>.</b> 9	6.7	5 <b>•</b> 0	<b>1</b> •1	-1-7	ų. L	-1-1	1.1	•	2 2 2 1 2	<b>1</b> •1		degree F, ar
* )	Maxtmum	17.2	18,9	23.3	24.4	21.7	15.6					•		10 12	25°0	26.7	25 <b>.</b> 1	25 ر•ر	26.7	25 <b>.</b> 5	24.4	21.1	20•6	20.6	13.3	10.6	<u>с.</u> С.	15.6	E. DI	18.9	15.6		<b>11-11</b>		
Temperature	Minin	•	12°2	12.2	12.2	12,2	12.2	12.8	n i	•	•	<u>}</u>	<b>}</b>	<b>}</b>	1; 7;	n n		្លាំ	n n n	12.8	12.8	12.8	E. E.	13 <b>.</b> 3	13 <b>.</b> 3		۰	12°8				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7 7		red to near
Tem	181	20°21		12.8	8°21	12.8	12.8	12.8	13.3	12.2					<b>}</b>	ן גי	•	•	•	6•21 6	•	6°.	4•51	0°61			•	J: J:				•	•		lemperature measured to nearest whole
	October	- <b> </b> c	, r	<del>ہ</del> ۔	<b>₹</b> 1	ഹ	9	2	8	0	, ot	1 F	12	12	) <del>;</del>	<b>1</b> 2	ንኦ			9 6	4	25	7 2	22	ਹੋਵ	ל נ ע ע	0 Y	0.6	20-20-20-20-20-20-20-20-20-20-20-20-20-2	28	) <del>(</del>	2.5	Totals	×	

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		emperature	(C*)					Fish Trappe	d	
Novembe:	Nat			ir		King S	almon		Salmon	Steelhead
		Minimum	Maximum	Minimum	Weather	Adults	Grilse	Adults	Grilse	Trout
1	12.8	12.8	8.9	1.7	pty cloudy			20		22
2	12.2	12.2	9.4	-3.9	pty cloudy	1	2	-6	13 27	12
ز	12.2	12.2	8.3	-5.6	pty cloudy			-	-,	
4	11.7	11.7	8.9	1.1	pty cloudy	2		20	16	18
5	11.7	12.2	8.3	2.2	rain			3	17	10
0	11.7	11.0	8.9	5.6	rain			-	-1	TO
(	11.0	11.0	11.0	3.9	rain			24	21	22
8	10.6	10.6	16.7	8.3	cloudy			4	24 11	62
9	10.6	10.0	17.8	8.3	rain			-1	<b></b>	UL.
10	11.0	10.6	15.0	5.0	rain					
10 11 13 14 15 16 17 18	10.6	10.6	12.2	738	rain			20	19	30
12	10.6	10.0	10.0	6.7	rain			12	22	48
13	10.0	10.6	7.8	0.6	rain					40
14	10.6	10.6	11.0	0.6	cloudy					-
15	10.0	10.0	12.2	6.1	cloudy					19
16	10.0	10.0	10.0	6.7	rain	1		5	17	47
17	10.0	10.0	7.8	<b>∂</b> •0	rain			2		4 I
	10.0	9.4	4.4	0.0	cloudy					
19	9•4	9•4	6.7	-6.7	cloudy			5	22	30
20	9.4	9.4	6.7	0.0	snow			Ĩ.	14	32 9
21 22 23 24 25 26	8.9	8.9	6.7	0.6	cloudy			4		,
22	8.9	8.9	5.6	0.0	rain					
23	8.3	8.3 7.8	4.4	-1.1	rain			6	9	13
24	8.3	7.8	5.0	-0.6	rain			•	,	
25	7.8	7.2	7.2	0.6	rain					
26	7.2	7.2	6.7	1.1	rain					
27	7.2	6.7	11.0	2.2	cloudy			2	10	5
28	6.7	6.7	11.0	1.1	rain			-		~
29	6.7	6.7	13.3	5.6	rain					
	6.7	6.7	8.3	5.6	rain					
Totals * T	emperature measu			· · · · · · · · · · · · ·		4	2	131	221	330

\* Temperature measured to nearest whole degree F, and later converted to C.

C

		emperature	(C*				I	Fish Trapped	1	
D	Wat	ter		ir		King Sa	almon	Silver	r Salmon	Steelhead
December	Maximum	Minimum	Maximum	Minimum	Weather	Adults	Grilse	Adults	Grilse	Trout
1	6.1	5.1	5.7	1.1	rain					1-040
2	6.1	5.6	8.3	-1.1	clear					
3	5.6	5.6	10.0	-2.2	pty cloudy					
4	5.6	5.0	4.4	-3.9	cloudy					
5	5.0	5.0	8.9	1.1	cloudy					
6	5.0	5.0	12.2	2.8	cloudy					
7	5.0	5.0	12.2	6.1	rain					
8	5.0	4.4	5.0	-1.7	<b>cloudy</b>					
9	4.4	4.4	7.8	3.9	cloudy					
10	4.4	4.4	5.6	-4.4	cloudy					
11	4.4	4.4	6.7	1.1	rain					
12	4.1	4.4	8.3	0.6	rain					
13 14 15 16 17 18	4.4	4.4	7.8	-1.1	rain					
14	4.4	4.4	8.3	0.0	cloudy					ų Lini
15	4.4	4.4	11.7	0.0	pty cloudy					14
16	4.4	4.4	8.9	-1.1	rain					ť
17	4.4	4.4	10.0	1.7	rain					
	<b>Ц_</b> Ц	3.9	7.8	3.3	clear					
19	4.4	4.4	10.6	3.3	cloudy					
20	4.4	4.4	8.3	4.4	rain					
21	4.4	4.4	6.7	2.8	rain					
<b>2</b> 2	4.4	4.4	6.1	-1.7	rain					
23 2lı 25 26	4.4	4.4	4.4	-1.1	rain					
2lı	4.4	4.4	8.9	3.3	rain					
25	<u>ц.</u> ц	4.4	8.9	3.3	cloudy					
26	4.4	3.9	7.8	-1.1	rain					
27	4.4	3.9	6.7	2.7	rain					
28	4.4	4.4	8.9	3.9	rain					
27 28 29 30 31	4.4	3.9	10.6	1.7	rain					
30	4.4	3.9	6.1	-2.2	clear					
	4.4	3.9	4.4	-2.8	rain					
Totals					مىسىنىيىن بىرىن - ئۇنىل بۇرۇپ <del>ب</del> ارلىرى 2					

Appendix Table 2 (continued)

\* Temperature measured to nearest whole degree F, and later converted to C.

	T	emperature	(C#)					Fish Trappe	d	
muary	Ka:	or	A			King Sa	nlmon	Cilver	Salmon	Steelhead
	Maximum	Minimum	Maximum	Minimum	Weather	Adults	Grilce	Adults	Grilse	Trout
1	4-4	3.9	3.3	-2.6	clear					11000
2	4.4	3.9	0.0	-11.0	cloudy					
3	3.9	3.9	1.1	-5.0	clear					
ų	3.9	3.3	1.7	-11.0	clear				1	۲
5	3.3	3.9	-3.9	-7.8	snew				Т	5
6	3.3 2.8	2.3	3.3	-10.6	clear					
7	2.8	2.3	0.0	-17.8	clear					
8	2.8	2.2	6.7	-16.7	clear					
9	2.8	2.2	2.2	-12.2	clear					
10	2.2	2.2	3.3	-15.6	clear					
11	2.2	2.2	2.2	-13.9	cloudy					
12	2.2	2.2	7.8	-0.6	rain					
13	2.2	2.2	13.3	3.9	clear					
14	2.8	2.2	11.0	4.4	rain					
12 13 14 15 16 17 18	2.8	2.8	10.0	8.9	rain					
16	1.7	1.7	6.7	5.6	rain					
17	2,2	2.2	9•4	-1.1	clear					
18	2.2	2.2 2.8	13.3	3.9	rain					
19	2.8	2.8	10.0	1.1	cloudy					
20	3.3	3.3	5.6	-1.1	clear					
21	3.3	3.3	5.6	-7.2	clear					17
22	3.9	3.3	9.4	-6.1	clear					
23	3.9	3.9	11.0	3.1	clear					23
24	3.9	3.9	10.0	-5.0	clear					رے
23 24 25 26	3.9	3.3	11.0	-5.6	pty cloudy					
26	3.3	3.3	6.7	-2.8	clear					
27 28	3.3	3.3	6 <b>.</b> 1	0.0	rain					
28	3.3	3.3	5.6	0.0 -2.8	clear					80
29	3.3	3.3	2.8	-5.6	cloudy					36
30 <u>31</u>	3.3	3.3	8.9	-3.3	cloudy					<u></u>
	3.3	3.3	5.6	3.3	rain					
als							• • • • • • • • • • • • • • • • • • • •		]	161

\* Temperature measured to nearest whole degree F, and later converted to C.

		emperature	(C*)					Fish Trap e	d	
	003.					King Sa	a Luon		Salmon	Steelherd
ebruary:	lleximun	inizem	1. milena i	. ininaa.	Testher	Adults	Crilse	Adults	Grilse	Trout
1	3.3	2.9	3.3	<b>_0</b> _6	pty cloudy					
2	3.3	2.9	7.8	-5.0	clear					
3	3.3	2.8	9.H	-7.2	clear					
11	3•3 3•3	2.8 2.8 2.3	<b>∂</b> ∎3	-2.8	clear					17
цí –	3.3	2.8	5.6	-5.0 -7.0	clear					
6	3.3 3.3	2.8	8.3	-7.6	clear					
7	3.3	2.8	13.9	-7.2	clear					9
8	3.3	2.0 2.9 2.8	14.4	-5.6	clear					
9	3.3	2.8	13.3	-6.7	clear					
10	3.3	2.8	13.9	-6.7	clear					
11	3.3	3.3	13.3	-6.7	clear					21
12	3.3	3.3	8.9	1.1	cloudy					
13 14 15 16	3.3	3.3	5.6	-5.0	cloudy					9
22	3.3	3.3	11.0	0.0	cloudy					-
15	3.3	3.3	11.0	0.6	cloudy					
16	3.3	3.3	S <b>.</b> 3	0.0	cloudy					
17	3.9	3.3	7.3	-3.3	cloudy					
18	3.9	3.9	Li • Li	0.0	rain					25
19	3.9	3.9	7.8	-1.7	cloudy					
20	4.1	3.9	7.2	-5.6	cloudy					00
21	•	3.9 4.4	E.7	1.1	rain					12
2	1:01.	3.9	6.7	-6.1	cloudy					
23 21	· 4.	1.1	8.3	-7.	clear					
2.	1: 11	4.1.	12.6	-1:1	clear					59
25 26	4.4	4.4	12.8	-1.1	rain					
26		4.4	15.0	-1.1	rain					
27	4.4	4.4	10.0	-2.2	rein					37
28	4.4	4.1	6.1	4.4	SNOW					<i></i>
tals	anture neasur						<u> </u>			230

Appendix Table 2 (continued)

Temperature measured to mearest whole degree F, and later converted to C.

Appendix Table 2 (continued)

		emperature	(C*	The statement of the st				Fish Trappe	đ	• - <del>• • • • • • • • • • • • • • • • • •</del>	
larch	him and have	<u>C11</u>	<u></u>			King S		Silvcr	Sol .on	Steelhe	ea
	Maximum	Minimum	Haximm	Hinimun	Neathar	Adults	Grilse	Adults	Grilse	Trout	
1 2	1:04	2.2	S.9	-1.1	rain						_
	4.4	3.2	7.8	-2.2	rain						
3	4.4	3.9	6.1	-3.3	rain						
<u>li</u>	4.4	3.2	S.9	-2,8	pty cloudy					34	
56	L: . li	3.9	10.0	0.0	pty cloudy					24	
6	3.9	3.0	1.7	0.6	rain						
7	li • li	3.9	3.3	-2.2	snow					14	
8	1: 1:	3.9	1:04	-10.0	clear						
Q.	1:01:	3• <sup>1</sup>	8.3	<b>-7.</b> 8	clear						
0	3.?	3.9	11.0	-2.3	cloudy						
1	3.2	3.9	12.2	1.1	pty cloudy					21	
2	3.9	3.9	11.7	3.9	rain					*	
3	4.4	3.9	11.7	1.1	pty cloudy						
	4.4	2 4	16.7	3.9	oty cloudy					37	
r, K	1: 2;	3.9	20.0	3.9	pty cloudy					1	
	l; •l;	4.4	18.3	1.4	pty cloudy						
7	22.	4.4	19 <b>.</b> 4	4.1	pty cloudy					205	
3	5.6	5.0	17.8	0.0	clear					205	
Ç	5.6	5.6	20 <b>.</b> 0	-3.3	clear						
)	6.7	<b>4.1</b>	18,9	3.9	clear						
L	6.7	6.6	18.9	-4.4	clear						
2		6.7	13.9	-3.3	clear					<del>9</del> 7	
3	7.2	6 <b>.</b> 7 :	19.1	-3.3	clear						
9	7 <b>.</b> 2 7 <b>.</b> 2	7.2	20.6	-2.3	clear						
	Ĩ <b>.</b> 2	7.2	15.7	-2.2	rain					1.3	
<b>x</b>	្.3	K.1	16.7	1.7	cloudy					1년3 758	
	·3	7.2	13.9	3.3	rain					20	
•	) • 3 } • 3	P.3	$\mathbf{D}_{\mathbf{t}}$	2.2	rain					22	
,	. <b>●</b> 2)	÷.,9	10.0	1.1	rain						
? ? 	•?	⊴ <b>.</b> 3	11.0	6.1	rain					1.2	
	<u></u>	<u>°</u> .3		2.8	rain					•.•	
S		red to beare								683	

Temporature necessed to nearest whole deares F, and later converted to C.

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	، د مربعہ مصنعہ م	eu orchure	(0%)	•				th Trappy	2	***
		**		r		King St	luon	S' lyci	Salmon	Ctealhead
<u>Foril</u>	liezdirmm	<u>intron</u>	Fortenn	Lini ear	Netther	Adults	Orilse	Adulta	Grilse	Trout
1	•3	f e	<u>1</u> N. A	2.3	rein					
2	<b>*</b> •3	≠7 -1 2 ● -	11.0	-?.°	pty cloudy					
3	•• • • • • • • • • • • • • • • • • • •	2.2	10.	-1.1	pty cloudy					
4	7.2	7.2	19.4	-2.2 7.2	clear					13
С С	7 - 2 7 - 2 7 - 3 7 - 3 7 - 3	7.2	13.2	7.2	rain					
6	7.2	7.2 7.2	$1!_{i+l_i}$	-1.7	pty cloudy					
7	7.3	7.2	ר י ר	-2.8	clear					
-	7.3	7.2	<b>1</b> 5.0	-2.2	pty cloudy					19
0	7.3	<b>7.</b> 6	7.2	-2.2	pty cloudy					
10	8.3	8 <b>.3</b>	11.0	0.0	pty cloudy					
11	<b>∂_3</b>	8.3	12.2	1.1	cloudy					24
11 12 13 15 16 17 1°	ે.૩	8.3	11, 1	-2.2	clear					ert
13	3 <b>.</b> 3	8.3	16.7	-4.4	clear					
1);	ି <b>₊</b> 3	8.3	21.1	-2.2	clear.					
15	8.9	8.3	21.1 18.3	2.2	clear					
16	8.9	8.0	21.1	-2.2	clear					8
17	8.9	8.9 8.3	23.3	` <b>.</b> 0	clear					U
1°	2•4	9.4	12.2	6.1	rain					8
19 20	10.0	9.4	11.7	0.6	clear					0
20	ဂ်္ဂါ	8.9	15.6	5.6	clear					
21	9. <u>]</u>	9.l:	15.6 22.6	-1,1	clear					
21 22 23 21	9 J	9.1	14.1	-0.6	rain					
23	11.0	9.4	11.0	3.3	rain					
21	10.0	9.L;	12.2	-0.6	cloudy					
25	10.0	$\mathcal{O}_{\mathcal{I}}$	11: 14	-0.6	cloudy					
26	10.0	10.0	71, 1,	-2,2	rein					
25 26 87	10.0	2.4	1,5.6	1.1	cloudy					
29	10.0	9.1	21.1	0.0	clear					
22	10 <b>.</b> 0	2.1;	25.0	2.3	clear					
30	10.0	2 • 57 	2/.1	Li Li	clear					-
<u>1s</u>			6 §.L	Li eLi	CTGSL					76

Appendix Table 2 (continued)

\* legerenure measured to merrest whele dearce ", and later converted to C.

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C. and Manual	Tront														- :	19	_															
	Crilse Grilse																															
Ciluin tent	Conlts Gril																															
King Solmon	Adults Crilse																															
	"ether	clear	clear	clecr	clear	clear	clear	clear	clear	clear	clear	clear	clear	pty cloudy	pty cloudy	pty cloudy	snow	Nous	cloudy	pty cloudy	pty cloudy	pty cloudy	clear	clear	clear	clear	clear	clear	cloudv	clear	clear	
	<u>linirum</u>	o` M	-1.1	0.0	1.7	۰° ۳	•	2.5	7.B	2 <b>.</b> 3	3.9	ດງ ດາ	6 <b>.</b> 1			<b>-0</b> •6	<b>.</b>	0•0	0•6	ר <b>י</b> ר ר	0 <b>•</b> 0	2 <b>.</b> 8	2•2	<b>1</b> .↓	1.44	3 <b>.</b> 9	7.8	6.7	1°1		0.0	
	l'eximum	C.							27.8				21.1	17.2	ن• ) <del>ا</del>	<b>13</b> .9	13.9	13 <b>.</b> 3	13 <b>.</b> 3	12.2	18.3	21 <b>°</b> 1	22 <b>.</b> 3	22 <b>.</b> 8	23.9	27 <b>.</b> 0	28.3		26.7	-	24.7	
	i inimum		•	Ū°UI	7°6	10.0	10.0	c.	9.1 	9 <b>.</b> ].	1.0	9.4	10.0			10.0	10.0	0°01	10.0	10.0	10.1	10.0	10°0	10.0	10.0	10.0	1.)•0	10.01	<u>э</u> от	10.6	10 <b>.</b> 6	1 1
	2	10° u	•	U0°U IU°Ú	]∩•́ć	10•0	10.0	10.0	10 <b>.</b> 0	10.0	10.6	10.0	10°6	م <b>ە</b> لا 201			10°()	10.0	10.6	<b>10.</b> 6	10.6	10•¢	10 <b>.</b> 6	10.6	<b>10</b> €6	30 <b>°</b> 0	10.6	10 <b>.</b> 6	10.6	ت <b>°</b> رت	0,11	
	.e.	~~i ;	Cu -	(*		<b>ن</b> ، ن	V.	<u>ر</u>	co	¢.	10		12	ස- -		ብ <b>,</b>	Û.	17	13	19	20	21	52	ຕາ. ເບ	21:	ניז ניז	26	51	28	29	30	

	]	<i>Temperature</i>	(C#)					Fish Trappe	ed	
	Vetu			Air		King S			Salmon	Steelhead
June	Maximum	Minimum	Maximum	Minimum	Weather	Adults	Grilse	Adults	Grilse	Trout
1	11.7	10.0	32.6	6.1	clear					
1 2	11.7	10.0	27.8	7.2	clear					
3	12.8	11.0	25.0	7.8	clear					
Ĩ,	13.3	12,2	23.3	8.3	rain					
5	13.3	12.8	20.0	7.2	cloudy	3				
6	13.3	13.3	21.7	7.2	clear					
7	13.9	12.8	21.1	1.7	clear					
8	13.3	10.6	27.8	2.8	clear					
9	11.0	10.0	32.2	<b>1</b> 4•4	clear					
10	11.7	10.6	35.6	6.1	clear	1				
11	11.7	10.6	37.8	10.0	clear					
11 12	10.0	10.6	36.1	11.0	clear					
13	11.7	10.0	35.0	10.0	clear					1 B
13 14 15 16	10.0	10.6	33.3	11.0	clear					20
15	11.7	10.0	31.1	10.0	clear	•				1
16	11.7	10.6	27.2	10.0	cloudy					•
17 18	12.2	10.6	33.9	9•4	clear					
	12.2	10.6	34•4	12.2	clear					
19	12.2	10.6	16.1	15.6	rain					
20	11.7	10.6	26.7	10.0	clear					
21	11.7	10.6	33.3	7.2	clear					
<b>2</b> 2	11.7	10.6	<b>30</b> .0	10.0	clear					
23	12.2	10.6	30.0	8.3	clear					
24	11.7	10.6	29•4	8.3	clear					
25	12.2	10.6	26.1	9-4	clear					
214 25 26	12.2	10.0	28.3	3.3	clear					
27 28	11.7	10.6	28.3	6.7	clear					
28	12.2	10.6	31.7	8.9	clear					
29	12.2	10.0	38.9	<b>14.</b> 4	clear					
30	11.7	11.0	31.1	14.4	clear					
otals						4	7 000	1.10	428	1,865
rand Totals						7,430	1,299	413	420	1,009

\* Temperature measured to nearest whole degree F, and later converted to C.