State of California The Resources Agency DEPARTMENT OF FISH AND GAME

ANNUAL REPORT FEATHER RIVER HATCHERY 1976-77

bу

Donald L. Schlichting Region 2, Inland Fisheries

Anadromous Fisheries Branch
Administrative Report No. 82-10

ANNUAL REPORT FEATHER RIVER HATCHERY, 1976-77¹/

by

Donald L. Schlichting Region 2, Inland Fisheries

ABSTRACT

This report summarizes the operation of Feather River Hatchery from July 1, 1976 through June 30, 1977. Tables present temperature and weather data, numbers of chinook salmon, Oncorhynchus tshawytscha, and steelhead, Salmo gairdneri, entering the hatchery, numbers of eggs taken and numbers of fish released.

We trapped 5,911 chinook salmon and 163 steelhead and planted 2,656,800 chinook fingerlings and 419,760 steelhead fingerlings in 1976-77.

Anadromous Fisheries Branch Administrative Report No. 82-10. Submitted June 1980.

INTRODUCTION

This report describes activities of the Feather River Hatchery during its 10th year of operation, July 1, 1976 through June 30, 1977. The hatchery is located near the upper Thermalito bridge in Oroville, California; it 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

Personnel from Feather River Hatchery trapped 5,911 chinook salmon, Oncorhynchus tshawytscha, and 163 steelhead, Salmo gairdneri, during the 1976-1977 season (Table 1). Approximately 12,628,223 salmon and 315,704 steelhead eggs were taken. A total of 41,900 summer-run steelhead eggs was imported from Nimbus Hatchery. We planted an estimated 3,595,460 chinook salmon and 618,800 steelhead.

MARKING PROGRAMS

Personnel from Anadromous Fisheries Branch marked 158,680 1975 broodyear (BY) chinook salmon with an adipose clip and tagged them with coded wire nose tags (CWT). A total of 69,540 1975 BY spring-run and 89,140 1975 fall-run fish was marked. The purpose of the marking program was to compare spring-run versus fall-run chinook salmon returns to the Feather River.

CHINOOK SALMON MAINTENANCE PROGRAM

1976 BY Spring Run

The fish ladder was opened on September 1, 1976 to allow the spring-run chinook adults to enter the hatchery. We received 713 spring-run fish (699 adults and 14 grilse) between September 2, 1976 and September 15, 1976. Adult fish were sexed on September 26, 1976. At that time we had 432 females and 281 males on hand. The hatchery crew was able to successfully spawn 354 females between September 26, 1976 and October 25, 1976. The spawning yielded 1,927,590 eggs, for an average of 5,445 eggs/female.

An estimated 1,699,625 fingerlings were transferred to the ponds, for an average fertility rate of 88%. These fish suffered a loss of over 1,071,000 primarily to Infectious Hematopoietic Necrosis (IHN). A total of 449,450 fish was planted as smolts in May and June. An estimated 178,730 fish remained on hand on June 30, 1977; these fish are to be planted as yearlings next season.

1976 BY Fall Run

The first fall-run chinook salmon entered the hatchery on September 27 and the last were received on December 26, 1976. The season total was 5,198 fish. Hatchery personnel spawned 2,140 females between October 4, 1976 and December 9, 1976 and took 10,700,633 eggs, for an average of 5,000 eggs/female. Fry

TABLE 1. Feather River Hatchery Production Summary, 1976-77

| Species/ | Adults trapped or | Females | Eggs taken or | Fish pla | nted | Estimated on hand |
|---|---|---------|---------------------|-------------|--------------------|----------------------|
| brood year | received | spawned | received | Fingerlings | Yearlings | 6/30/77 |
| Chinook salmo Spring run 1975 BY 1976 BY | 0 713 | 354 | 1,927,590 | 449,450 | 129,550 <u>c</u> / | 0 178,730 |
| Chinook salmo Fall run 1975 BY 1976 BY | <u>n</u> 0 5,198 <mark>2</mark> / | 2,140 | 10,700,633 | 2,207,350 | 809,140 <u>b</u> / | 0 897,725 |
| Steelhead 1976 BY 1976 BY-Nd/ | 0 | | | 419,760 | 176,840 22,200 | 0 0 |
| 1977 BY 1977 BY-N ^{<u>d</u>/} | | 83 | 315,704 41,900 | | | 250,070 38,440 |

In addition, 51 females spawned in the spawning channel.

Nose tagged 89,140.
Nose tagged 69,540.
Summer-run steelhead eggs received from Nimbus Hatchery.

production totaled 8,775,970 (82%), with an estimated 5,670,895 loss to IHN between May 18 and June 24, 1977. The hatchery crew planted 2,207,350 fall-run fry from the 1976 BY. An estimated 897,725 1976 BY fall run remained on hand as of June 30, 1977. An additional 51 fall-run females spawned in the spawning channel. The estimated yield of this additional 175,000 1976 BY fall-run chinook salmon fingerlings is included in fingerling production.

RECOVERY OF MARKED CHINOOK SALMON

All chinook salmon entering the hatchery were examined for marks. We observed a total of 47 marked fish (Appendix Table 1).

CHINOOK SALMON PLANTING

We planted an estimated 2,656,800 fingerlings and 938,690 yearling chinook salmon this season (Table 2).

STEELHEAD MAINTENANCE PROGRAM HISTORY OF THE 1976-77 PRODUCTION

1977 BY

Steelhead were not counted or held until December 21, 1976. From December 21, 1976 through March 22, 1977, four marked fish were counted and measured as they entered the hatchery.

The total run was 163 fish: 79 males and 84 females. We successfully spawned 83 females (Table 3) and took 315,704 eggs. An estimated 255,828 fry were transferred to the ponds, for a survival rate of 81%. No fish were planted this season. Losses amounted to 5,758 fry, leaving 250,070 fish on hand June 30, 1977.

| TABLE 3. Steelhead St | pawning Data |
|-----------------------|--------------|
|-----------------------|--------------|

| | Fish s | spawned | | Fish | spawned | |
|--------------------|--------|---------|------|------|---------|--|
| Date | M | F | Date | M | F | |
| $\frac{1977}{1/5}$ | | | 1977 | | | |
| 1/5 | 3 | 3 | 2/14 | 9 | 7 | |
| 1/10 | * | 6 | 2/22 | 2 | 15 | |
| 1/17 | * | 4 | 3/1 | 15 | 12 | |
| 1/25 | * | 4 | 3/7 | 7 | 7 | |
| 1/31 | 4 | 4 | 3/15 | 12 | 5 | |
| 2/7 | 5 | 13 | 3/22 | 14 | 3 | |

^{*} Males spawned not returned to river.

TABLE 2. Chinook Salmon Planting Summary, Feather River Hatchery 1976-77

| Brood year | Race | Month relea | | Average size(g) | Number released | Mark | Release site |
|---------------|------------|----------------|------|--------------------|----------------------|------------|-----------------------------------|
| 1975 | Spring run | Dec. | 1976 | 63 | 69,540 | Ad+CWT | Feather River at Gridley |
| 1975 | Spring run | Dec. | 1976 | 63 | 60,010 | | Feather River at Gridley |
| | | | | Total | 129,550 | | |
| 1975 | Fall run | Oct. | 1976 | 33 | 20,250 | | Tiburon |
| 1975 | Fall run | Oct. | 1976 | 49 | 280,330 | | Feather River at Yuba City |
| 1975 | Fall run | Nov. | 1976 | 49 | 411,320 | | Feather River at Yuba City |
| 1975 | Fall run | Dec. | 1976 | 74 | 89,140 | Ad+CWT | Feather River at Yuba City |
| 1975 | Fall run | Dec. | 1976 | 74 | 8,100 | | Feather River at Yuba City |
| | | | | Total | 809,140 | | |
| 1976 | Spring run | Jan. | 1977 | 44 | 93,500 | | Feather River at Oroville |
| 1976 | Spring run | May | 1977 | 6-8 Total | 355,950 449,450 | | Rio Vista |
| 1976 | Fall run | May | 1977 | 8 | 61,600 | Red dye | Steamboat Slough |
| 1976 | Fall run | May | 1977 | 7 | 67,000 | Yellow dye | Mokelumne River |
| 1976 | Fall run | May | 1977 | 6-8 | 853,750 | | Rio Vista |
| 1976 | Fall run | June | 1977 | 6-8 | 185,100 | Red dye | Steamboat Slough |
| 1976 | Fall run | June | 1977 | 6-8 | 195,100 | Yellow dye | Wimpys Resort at Mokelumne River |
| 1976 | Fall run | June | 1977 | 6-8 | 227,350 | Green dye | Giusti's at Mokelumne River |
| 1976 | Fall run | June | 1977 | 6-8 | 442,450 | | Rio Vista |
| 1976 | Fall run | June | 1977 | 4-5 Total | 175,000 2,207,350 | | Spawning channel at Feather River |

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1977 BY Nimbus

In an attempt to establish a summer run of steelhead in the Feather River, 41,900 summer-run eggs were brought from Nimbus Hatchery on the American River. We had approximately 38,440 on hand June 29, 1977; these will be planted as yearlings next year.

STEELHEAD PLANTING

We planted an estimated 618,800 steelhead during the 1976-77 season (Table 4).

TABLE 4. Steelhead Planting Summary, 1976-77

| Date | Race and BY | Average size(g) | Number released | Release site |
|-----------|-------------|--------------------|--------------------|---------------------------|
| Jul. 1976 | SH-FR-76 | 2.5 | 419,760 | Feather River - Oroville |
| Jan. 1977 | SH-FR-76 | 75 | 37,520 | Feather River - Yuba City |
| Feb. 1977 | SH-FR-76 | 74 | 113,770 | Feather River - Yuba City |
| Mar. 1977 | SH-FR-76 | 149 | 25,550 | Feather River - Yuba City |
| Mar. 1977 | SH-N-76a | 74 | 22,200 | Feather River - Yuba City |

Eggs received from Nimbus Hatchery.

VISITOR USE

During 1976-77, 65,857 people visited the installation.

APPENDIX TABLE 1. Marked Chinook Salmon Recovered at Feather River Hatchery, 1976-77 Release data

| | Number | | | | Number | |
|--------|-----------|-------------------|---------|---------------|----------|------------------------|
| Mark | recovered | Area | Size(g) | Date | released | Origin |
| LV-LP | 10 | Feather River | 37 | Jan. 1974 | 100,000 | Feather River Hatchery |
| Ad+CWT | 37 | San Joaquin River | 5 | May-Jun. 1974 | 311,692 | Feather River Hatchery |
| LV* | 8 | Feather River | 37 | Jan. 1974 | 100,000 | Feather River Hatchery |
| LP* | 2 | Feather River | 37 | Jan. 1974 | 100,000 | Feather River Hatchery |
| Ad+CWT | 37 | San Joaquin River | 5 | May 1974 | 311,692 | Feather River Hatchery |

^{*} Mark has to be regenerated LV-LP mark. LV or RV alone not planted in California according to Pacific Marine Fisheries mark list (1977).

APPENDIX TABLE 2. Fork Lengths (to Nearest Inch) of Marked Chinook Salmon Trapped at Feather River Hatchery, 1976-77

| FL | A | <u>d</u> | LP | LV | |
|----------|--------|----------|-----|-----|--------------|
| (inches) | M | F | M F | M F | |
| 0.7 | _ | | | | |
| 21 | 1 | | | | |
| 22 | 1 | | 1 | | |
| 23 | 1 | | | | |
| 24 | 1 | | | 3 | |
| 25 | | | | 1 | |
| 26 | 1 | 3 | | 3 | |
| 27 | 2 | 2 | | 1 | |
| 28 | ī | 2 5 | | • | |
| 29 | - | 4 | | | |
| 30 | | 5 | | | |
| 31 | | 4 | | | |
| 32 | 1 | 1 | | | |
| 33 | • | 1 | | | |
| 34 | | + | | | |
| 35 | 1 | | | | |
| | 1 1 | | | | |
| 36 | 1 | | | | |
| 37 | | | | | |
| 38 | | 1 | 1 | | |
| Mom AT 6 | | | | | |
| TOTALS | 11 | 26 | 2 | 8 | |

| | | | | | | | | F | ish trappe | ed |
|---|---------|-----------|---------|---------|-------------|--------|--------|----------|------------|-----------|
| | | Temperatu | re (C°) | | | | | k salmor | | |
| July | Ai | | Wat | | | | run | | ng run | |
| 1976 | Maximum | Minimum | Maximum | Minimum | Weather | Adults | Grilse | Adults | Grilse | Steelhead |
| 1 | 30.5 | 11.0 | 14.4 | 13.3 | Clear | | | | | |
| 2 | 30.5 | 12.5 | 14.4 | 13.9 | Clear | | | | | |
| 1 2 3 4 5 6 7 8 9 | 32.0 | 12.5 | 14.4 | 13.9 | Clear | | | | | |
| 4 | 35.5 | 15.0 | 13.9 | 13.3 | Clear | | | | | |
| 5 | 36.0 | 15.0 | 13.9 | 13.3 | Clear | | | | | |
| 6 | 36.0 | 15.0 | 14.4 | 13.9 | Clear | | | | | |
| 7 | 35.0 | 14.5 | 15.0 | 14.4 | Clear | | | | | |
| ė. | 36.0 | 14.0 | 15.0 | 13.9 | Clear | | | | | |
| 9 | 35.5 | 15.5 | 15.0 | 14.4 | Clear | | | | | |
| 10 | 34.0 | 15.0 | 15.0 | 15.0 | Clear | | | | | |
| 11 | 35.0 | 17.5 | 15.6 | 15.0 | Clear | | | | | |
| 12 | 37.0 | 16.5 | 15.6 | 15.0 | Clear | | | | | |
| 13 | 35.0 | 14.5 | 16.1 | 15.6 | Clear | | | | | |
| 13 14 | 37.0 | 18.0 | 16.1 | 15.6 | Clear | | | | | |
| 1.5 | 37.0 | 19.0 | 16.1 | 15.6 | Clear | | | | | |
| 1 5 16 | 32.0 | 14.0 | 16.1 | 15.6 | Clear | | | | | |
| 17 | 32.0 | 16.5 | 16.1 | 15.0 | Rain | | | | | |
| 18 | 32.0 | 15.0 | 15.6 | 15.0 | Clear | | | | | |
| 19 | 34.0 | 14.0 | 16.1 | 15.6 | Clear | | | | | |
| 20 | 34.0 | 15.5 | 16.1 | 15.6 | Clear | | | | | |
| 21 | 34.0 | 15.0 | 16.1 | 16.1 | Clear | | | | | |
| 22 | 36.0 | 22.0 | 16.1 | 13.3 | Clear | | | | | |
| 23 | 36.0 | 17.0 | 14.4 | 12.8 | Clear | | | | | |
| 23 24 | 47.5 | 20.0 | 13.9 | 13.3 | Clear | | | | | |
| 25 | 38.5 | 18.5 | 13.9 | 12.8 | Clear | | | | | |
| 26 | 40.0 | 16.5 | 14.4 | 11.1 | Clear | | | | | |
| 27 | 38.0 | 18.0 | 15.0 | 13.3 | Cloudy | | | | | |
| 28 | - | 15.0 | 15.0 | 12.8 | Cloudy | | | | | |
| 29 | 29.0 | 12.5 | 15.0 | 13.9 | - | | | | | |
| 30 | 36.0 | 17.0 | 15.0 | 13.9 | Cloudy | | | | | |
| 31 | 30.5 | 17.0 | 15.0 | 14.4 | Cloudy | | | | | |

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| | | Steelhead | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------|-----------|-----------|-------|-------|------------|-------|-------|----------|--------------|-------------|-------|--------|-------|--------|--------|--------|------|--------|--------|--------------|-------|--------|------|-------|------------|-------|------------|-------|-------|-------|----------|----------|
| Fish trapped | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 k | run | Grilse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Fall 1 | Adults (| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Weather | Cloudy | Clear | Clear | Clear | Clear | Clear | Cloudy | Cloudy | Clear | Clear | Cloudy | Clear | Cloudy | Cloudy | Cloudy | Rain | Cloudy | Cloudy | Clear | Clear | Cloudy | Rain | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear |
| | H | Minimum | 13.9 | 13.3 | 7.4. | 13.9 | 4.41 | 13.9 | 13.9 | 4.4 1 | ₹.41 | 13.3 | 11.1 | 11.7 | 11.7 | 11.1 | 10.6 | 10.6 | Ξ | 12.8 | 8.य | 12.8 | 12.8 | 13.3 | 12.2 | 13.3 | 13.3 | 13.3 | 13.9 | 13.3 | 12.8 | • | 13.9 |
| (0) | Water | I ł | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.6 | 15.6 | 15.6 | 12.8 | 25.2 | 12.2 | 12.2 | 12.2 | 12.2 | 13.3 | 13.3 | 8. 21 | 13.3 | 13.3 | 13.3 | 13.9 | 13.9 | 13.9 | 13.9 | 17.71 | 14.4 | 13.9 | 라. 라. | 14.4 |
| Grant to the state of the state | Tombel and | Minimum | 15.5 | 14.0 | 14.0 | | 14.0 | 12.0 | 14.0 | 21.0 | 16.0 | 15.0 | 13.5 | 14.0 | 0.5I | | | | 14.0 | 12.5 | 0. †I | 15.0 | 16.0 | 14.5 | 15.0 | 15.0 | 13.0 | 12.5 | 17.5 | 15.0 | 22.0 | 19.0 | |
| c | Air | Maximum | 25.0 | 28.0 | 29.0 | • | 27.0 | 23.0 | 39.0 | 33.5 | 34.0 | 34.0 | 33.0 | 33.0 | 25.0 | | | | 24.0 | 22.0 | 29.0 | 35.0 | 30.0 | 26.0 | 30.0 | 32.0 | 36.0 | 35.5 | 36.0 | 36.0 | 38.0 | 42.0 | |
| | August | 1976 | 1 | Q | m | . = | 2 | ω. | - | ထ | 6 | 9 | Ħ | ឧ | 13 | 41 | 15 | 16 | 17 | 18 | 19 | 8 | ส | 22 | 23 | 5 ‡ | 25 | 5 6 | 27 | 28 | 29 | 30 | ж |

| | | | | | | | | | 'ish trapp | ed |
|-------------|---------|-----------|----------|-------------|---------|--------|--------|----------|------------|-----------|
| | | Temperatu | ıre (C°) | | | | | k salmon | | |
| September | Ai | | Wat | er | | | run | | ng run | |
| 1976 | Maximum | Minimum | Maximum | Minimum | Weather | Adults | Grilse | Adults | Grilse | Steelhead |
| 1 | | | 15.0 | 13.9 | Clear | | | | | |
| 2 | | | 13.9 | 13.3 | Clear | | | | | |
| _ 3 | 36.0 | 15.5 | 13.9 | 13.3 | Clear | | | | | |
| 3 4 | 35.0 | 16.0 | 14.4 | 13.3 | Clear | | | | | |
| 5 | 34.0 | 14.5 | 13.9 | 12.8 | Clear | | | | | |
| 5 6 | 30.0 | 13.0 | 13.0 | 12.2 | Clear | | | | | |
| 7 | 34.5 | 14.0 | 13.9 | 12.2 | Clear | | | | | |
| 7 8 9 | 37.0 | 21.0 | 13.9 | 12.8 | Clear | | | | | |
| ğ | 31.0 | 4245 | 13.9 | 13.9 | Clear | | | | | |
| 20 | 32.0 | 12.0 | 14.4 | 13.9 | Cloudy | | | | | |
| 11 | 31.0 | 13.0 | 15.0 | 14.4 | Rain | | | | | |
| 12 | 30.0 | 11.0 | 15.0 | 14.4 | Clear | | | | | |
| 13 | 31.5 | 15.0 | 15.0 | 14.4 | Clear | | | | | |
| 13 14 | 30.5 | 13.5 | 14.4 | 13.9 | Rain | | | | | |
| 15 | 22.0 | 12.0 | 14.4 | 11.7 | Clear | | | | | |
| 15 16 | 22.0 | 14.0 | 13.9 | 11.1 | Clear | | | | | |
| 17 | 27.0 | 16.0 | 11.7 | 11.1 | Clear | | | | | |
| 18 | 20.0 | 16.0 | 11.1 | 10.6 | Clear | | | | | |
| 19 | 25.0 | 11.0 | 11.7 | 10.6 | Clear | | | | | |
| 20 | 30.0 | 10.5 | 12.2 | 10.6 | Cloudy | | | | | |
| 51 | 24.0 | 14.0 | 11.7 | 10.6 | Cloudy | | | | | |
| 22 | 31.0 | 16.5 | 12.2 | 11.T | Clear | | | | | |
| 23 | 31.0 | 18.0 | 12.2 | 11.7 | Clear | | | | | |
| 24 | 33.0 | 11.0 | 13.3 | 12.2 | Clear | | | | | |
| 25 | 22.0 | 11.0 | 13.9 | 13.3 | Clear | | | | | |
| 25 26 | 20.0 | 14.5 | 13.9 | 13.3 | Clear | | | 699 | 14 | |
| 27 | 24.0 | 16.0 | 14.4 | 12.8 | Cloudy | 78 | 11 | | | |
| 28 | 30.0 | 10.0 | 13.9 | 13.3 | Cloudy | | | | | |
| 29 | • | | 13.9 | 13.3 | Cloudy | | | | | |
| 30 | 27.0 | 13.0 | 13.3 | 10.6 | Clear | | | | | |
| TOTALS | | | | | | 78 | 11 | 699 | 14 | |

| | | | | | | | | Fis | h trapped | |
|------------------|-----------|--|------|---------|---------|--------|---------|--------|-----------|-----------|
| | | Temperatu | | | | | Chinook | | | |
| October | Ai | | | ter | | | run | | ng run | |
| 1976 | | Minimum | | Minimum | Weather | Adults | Grilse | Adults | Grilse | Steelhead |
| 1 | 20.0 | 14.0 | 12.2 | 11.7 | Clear | | | | | |
| 2 | 17.0 | 9.0 | 12.2 | 12.2 | Cloudy | | | | | |
| 2 3 4 | 20.0 | 10.0 | 12.2 | 12.2 | Clear | _ | | | | |
| 4 | 29.0 | 10.0 | 12.8 | 12.2 | Clear | 85 | 20 | | | |
| - 5 | | | 12.2 | 11.7 | Clear | | | | | |
| 5 | 33.5 | 17.5 | 12.2 | 11.7 | Clear | | | | | |
| 7 8 | 34.0 | 12.5 | 11.7 | 11.1 | Clear | 64 | 21 | | | |
| 8 | 34.0 | 13.5 | 12.2 | 11.7 | Clear | | | | | |
| 9 | 33.0 | 13.5 | 12.8 | 11.7 | Clear | | | | | |
| 10 | 31.0 | 10.5 | 12.8 | 12.2 | Clear | | | | | |
| 11 | 31.0 | 10.5 | 12.8 | 12.2 | Clear | | | | | |
| 12 | 34.0 | 12.0 | 12.8 | 12.2 | Clear | 247 | 57 | | | |
| 13 | 33.0 | 11.5 | 12.8 | 11.7 | Clear | | | | | |
| 14 | 32.0 | 10.0 | 13.3 | 11.7 | Clear | | | | | |
| 15 | 29.0 | 13.0 | 13.3 | 11.7 | | 263 | 63 | | | |
| 16 | 28.0 | 10.0 | 13.3 | 11.7 | Clear | | | | | |
| 17 | 29.5 | 10.0 | 12.8 | 11.7 | Clear | | | | | |
| 18 | 28.0 | 9.0 | 12.8 | 10.6 | Clear | 252 | 71 | | | |
| 19 | 27.0 | 9.0 | 11.7 | 10.0 | Clear | | | | | |
| 20 | 33.0 | 11.0 | 11.1 | 10.0 | Clear | | | | | |
| 21 | 28.0 | 13.0 | 11.7 | 10.0 | Rain | 142 | 22 | | | |
| 22 | 26.0 | 9.0 | 11.7 | 11.7 | Clear | 49 | 8 | | | |
| 2 3 24 | 24.0 | 8.0 | 12.2 | 11.7 | Clear | • | | | | |
| 2 <u>¥</u> | 21.5 | 10.0 | 12.2 | 11.7 | Clear | 565 | 145 | | | |
| 25 | 22.0 | 8.0 | 12.2 | 11.1 | Clear | | • | | | |
| 25 26 | 25.5 | 10.0 | 12.2 | 11.7 | Clear | | | | | |
| 27 | 26.5 | | 12.2 | 11.7 | Clear | | | | | |
| 28 | 23.0 | 10.5 | 12.2 | 11.7 | Clear | 401 | 97 | | | |
| 29 | 20.0 | 6.0 | 12.2 | 11.7 | Clear | | - | | | |
| 30 | 23.0 | 11.0 | 11.7 | 11.7 | Clear | | | | | |
| 30 31 | 23.0 | 7.5 | 11.7 | 11.1 | Clear | | | | | |
| TOTALS | | · - · · · · · · · · · · · · · · · · · · | | | | 2068 | 504 | | | |
| CUMULATI | VE TOTALS | | | | | 2146 | 515 | 699 | 14 | |

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| | | | Fish trapped Chinook salmon | | | | | | | |
|--|----------------|--------------|-----------------------------|---|-----------|----------------|------------|-------------|------------------|-----------|
| | | Temperatur | | | | - P-11 | | | | |
| ovember | Ai: Maximum | r Minimum | Wat Maximum | Minimum | Weather | Fall Adults | Grilse | | ng run Grilse | Charlbard |
| 1976 | Meximum | MINIMUM | Maximum | MINIMUM | weariter. | Adults | GITIBE | AUUIUB | GLITRE | Steelhead |
| 1 | 25.0 | 8.0 | 11.7 | 10.6 | Clear | 292 | 62 | | | |
| 2 | 26.0 | 6.0 | 11.1 | 10.6 | Clear | | | | | |
| 3 | 29.7 | 7.0 | 11.1 | 10.0 | Clear | | | | | |
| 3 4 | 28.0 | 7.0 | 10.6 | 10.6 | Clear | 141 | 38 | | | |
| | 28.0 | 7.0 | 11.T | 10.6 | Clear | | _ | | | |
| 6 | 27.0 | 9.0 | 11.1 | 10.6 | Clear | | | | | |
| 7 | 27.0 | 7.0 | 11.1 | 10.6 | Clear | | | | | |
| 5 6 7 8 | 24.0 | 10.5 | 11.1 | 10.0 | Cloudy | 209 | 50 | | | |
| 9 | 25.0 | 12.0 | 11.1 | 10.0 | Cloudy | , | • | | | |
| 1Ó | | | 11.1 | 10.6 | Cloudy | | | | | |
| | | | 11.1 | 11.1 | Cloudy | | | | | |
| 12 | | | 11.1 | $\overline{\mathtt{n}}.\overline{\mathtt{i}}$ | Cloudy | 195 | 36 | | | |
| 11 12 13 14 15 16 17 18 | | | 11.1 | 11.1 | Rain | | • | | | |
| 16 | | | 11.7 | 11.1 | Clear | | | | | |
| 15 | | | 11.7 | 11.7 | Clear | 235 | 65 | | | |
| 16 | | | 11.7 | 11.1 | Clear | -32 | | | | |
| 17 | | | 11.i | 10.6 | Foggy | | | | | |
| า้8่ | | | 11.1 | 10.6 | Clear | 290 | 3 9 | | | |
| 19 | | | 10.6 | 10.6 | Clear | | • | | | |
| 20 | | | 10.6 | 10.6 | Clear | | | | * | |
| 19 20 21 22 23 24 25 26 | | | 11.1 | 10.6 | Clear | | | | | |
| 22 | | | 10.6 | 10.6 | | 314 | 34 | | | |
| 53 | | | 10.6 | 10.6 | Clear | J | J. | | | |
| ەر 5 | | | 11.1 | 10.6 | Clear | 42 | 14 | | | |
| 25 | | | 11.1 | 10.6 | Clear | | | | | |
| 26 | | | 10.6 | 10.6 | Clear | | | | | |
| 27 | | | 10.6 | 10.6 | | | | | | |
| 27 28 | | | 10.6 | 10.0 | | | | | | |
| 29 | | | 10.0 | 9.4 | Clear | 121 | 19 | | | |
| 30 | | | 10.6 | 10.0 | Clear | - | | | | |
| TOTALS | | | | | | 1839 | 357 | | | |
| | IVE TOTALS | | | | | 3985 | 872 | 699 | 14 | |

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| 10.6 10.0 Clear 84 14 10.0 10.0 Clear 10.0 10.0 Clear 10.0 Glear 1 | Ter Air | Temperature (C* | | er Kara | | Fall | 1 1 1 | 18h | |
|--|----------|-----------------|------------|-------------|-----------|--------|------------|---------------|-----------|
| 10.6 10.0 Clear 84 14 10.6 10.6 10.0 Clear 10.6 10.0 Clear 10.0 S.4 Clear 8.9 Clear 8.3 Clear 8 | Iur | | Maximum | Minimum | Weather | Adults | Grilse | Adults Grilse | Steelhead |
| 10.6 10.0 Clear 84 14 10.0 10.6 10.0 Clear 10.0 Glear 10.0 9.4 Clear 10.0 Clear 10.0 6.9 Clear 10.0 Clear 10. | | | 10.6 | 10.0 | Clear | | | | |
| 10.6 10.0 Clear 10.0 9.4 Clear 10.0 0.0 Clear | | | 10.6 | 10.0 | Clear | ₹ 8 | 1 7 | | |
| 10.0 10.0 Clear 10.0 9.4 Clear 10.0 9.6 Clear 10.0 9.6 Clear 10.0 9.7 Clear 10.0 9.8 Clear | | | 10.6 | 0.01 | Clear | | | | |
| 10.0 10.0 Clear 105 7 10.0 Clear 10.0 10.0 Clear 10.0 Glear 10.0 G | | | 10.0 | 10.0 | Clear | | | | |
| 10.0 10.0 Glear 105 7 10.0 10.0 Glear 105 7 10.0 10.0 Glear 50 6 10.0 9.4 Glear 50 6 10.0 9.4 Glear 46 3 10.0 9.4 Glear 46 3 9.4 8.9 Glear 46 3 8.9 Glear 89 Glear 89 Glear 89 89 Glear 89 89 Glear 89 Glear 89 89 60 Glear 89 89 80 60 Glear 80 89 80 60 Glear 80 89 80 60 Glear 80 60 60 60 60 60 60 60 60 60 60 60 60 60 | | | 10.0 | 10.0 | Clear | | | | |
| 10.0 Clear 10.0 Clear 10.0 Clear 10.0 Clear 9.4 Clear 10.0 Clear 9.4 Clear 10.0 Clear 9.4 Clear 8.9 Clear | | | 10.0 | 10.0 | Clear | 105 | ۲ | | |
| 10.0 Clear 10.0 Clear 9.4 Clear 10.0 Clear 10.0 Clear 10.0 Clear 9.4 Clear 8.9 Clear | | | 10.0 | 0.01 | Clear | | | | |
| 10.0 10.0 Clear 50 6 10.0 9.4 Clear 10.0 Clear 10.0 9.4 Clear 10.0 9.4 Clear 10.0 Clear 10.0 Glear 10.0 Glear 10.0 Glear 10.0 9.4 Clear 10.0 Glear 10.0 Gl | 8.0 | | 10.0 | 10.0 | Clear | | | | |
| 10.0 9.4 Clear 10.0 9.4 Clear 10.0 9.4 Clear 10.0 10.0 Clear 10.0 9.4 Clear 9.4 8.9 Clear 8.9 8.9 Clear | 1.0 | | 10.0 | 10.0 | Clear | 5 | 9 | | |
| 9.4 Clear 10.0 Clear 9.4 Clear 9.4 Clear 8.9 Clear | 9.0 | | 10.0 | 7.6 | Clear | | | | |
| 10.0 Clear 9.4 Clear 8.9 Clear | 3.0 | | 10.0 | | Clear | | | | |
| 10.0 9.4 Clear 46 3 9.4 9.4 Clear 46 3 8.9 Clear 8.3 Cle | 6.5 | | 0.01 | 10.0 | Clear | | | | |
| 9.4 9.4 Clear 46 3 8.9 Clear 8.3 Cle | 0.4 | | 10.0 | 4.6 | Clear | | | | |
| 9.4 8.9 Clear 8.9 8.3 Clear | 2.0 | | 4.6 | 4.6 | Clear | 94 | m | | |
| 8.9 8.9 Clear 8.9 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear 8.3 Clear | ٠ 0 | | 4.0 | 8.9 | Clear | | • | | |
| 8.9 & 9. Clear 8.9 8.9 Clear 8.9 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear | | | 8.9 | 8.9 | Clear | | | | |
| 8.9 8.9 Clear 8.9 8.3 Clear 8.3 Glear 8.3 Clear 8.3 Glear 8.3 Clear 8.3 Clear | 1.0 | _ | 8.9 6.9 | 6,8 | Clear | | | | |
| 9.4 8.9 Clear 8.9 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear | 7.0 | | 8.9 6.9 | 8.9 | Clear | | | | |
| 8.9 8.9 Clear 8.9 8.9 Clear 8.9 8.9 Glear 8.9 8.9 Clear 8.9 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear | 0.1 | | 4.0 | 8.9 6.9 | Clear | | | | |
| 8.9 8.9 Clear 26 8.9 8.9 Partly-cloudy 8.9 8.9 Clear 8.9 8.9 Clear 8.9 8.9 Clear 8.9 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear | S. | _ | 8. 6.9 | 8.9 | Clear | | | | |
| 8.9 8.9 Partly-cloudy 8.9 8.9 Clear 8.9 8.9 Clear 8.9 8.9 Clear 8.9 8.9 Clear 8.9 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear 8.3 8.3 Clear | 7 | _ | 8. 6. | 8.9 | Clear | 8 | | | |
| 8.9 8.9 Clear 8.9 8.9 Clear 8.9 8.9 Clear 8.9 8.9 Clear 8.9 8.3 Clear 8.3 8.3 Clear 8.3 Rain 8.3 Clear | ر. 0 | _ | œ 0. | φ 6. | Partly-cl | oudy | | | |
| 8.9 8.9 Clear 8.9 8.9 Clear 8.9 8.9 Clear 8.9 8.3 Clear 8.3 8.3 Rain 8.3 8.3 Clear 8.3 Clear | 4 | _ | 8. 6.9 | 8.9 | Clear | | | | |
| 8.9 8.9 Clear 8.9 8.9 Clear 8.9 8.3 Clear 8.3 8.3 Rain 8.3 8.3 Clear 8.3 Clear | <u>ن</u> | _ | 8.9 | 8.0 | Clear | | | | |
| 8.9 Clear 8.3 Clear 8.3 Clear 8.3 Rain 8.3 Clear 8.3 Clear | ď | _ | 8. 6.9 | 8.9 | Clear | | | | |
| 8.9 8.3 Clear 8.3 Rain 8.3 Clear 8.3 Clear | | | 8. 9. | 8.9 | Clear | | | | |
| 8.3 Clear 8.3 Rain 8.3 Clear 311 30 | | | 8. 6. | 8.9 | | | | | |
| 8.3 Clear 8.3 Clear 3.11 30 | | | 8.9 | 8.3 | Clear | | | | |
| 8.3 Clear 8.3 Clear 311 30 | | | | œ • • | Clear | | | | |
| 8.3 Clear 311 30 1202 600 | | | | 8 .3 | Rain | | | | |
| 30 | | | 8.3 | 8.3 | Clear | | | | |
| 200 | | | | | | 311 | Ç | | |
| | | | | | | 1001 | 3 8 | | |

| | | _ | 4-03 | | | | | | h trappe | a |
|------------------|-----------|--|---------|--------------|-------------|--------|--------|--------|----------|-----------|
| | | Temperatu | | | | | | salmon | | |
| anuary | A | | Wat | | | Fall | | | ng run | |
| 1977 | Maximum | Minimum | Maximum | Minimum | Weather | Adults | Grilse | Adults | Grilse | Steelhead |
| 1 | | | 8.3 | 8.3 | Rain | | | | | |
| 2 | | | 8.3 | 8.3 | Rain | | | | | |
| 2 3 4 | | | 8.3 | 8.3 | Clear | | | | | |
| 4 | | | 8.3 | 8 <u>. 3</u> | Clear | | | | | |
| 5 | 7.0 | 0.0 | 8.3 | 7.8 | Clear | | | | | 40 |
| 5 6 7 8 | 15.5 | - 0.1 | 7.8 | 7.8 | Clear | | | | | |
| 7 | 12.0 | 8.5 | 7.8 | 7.8 | Clear | | | | | |
| 8 | 12.5 | 0.0 | 7.8 | 7.8 | Clear | | | | | |
| 9 | 10.0 | 3.0 | 7.8 | 7.2 | Clear | | | | | |
| 10 | 12.0 | 0.0 | 7.2 | 7.2 | Clear | | | | | |
| 11 | 12.0 | 0.0 | 7.8 | 7.2 | Fog | | | | | 9 |
| 12 | 3.0 | 3.0 | 7.8 | 7.8 | Fog | | | | | |
| 13 | 10.0 | 3.0 | 7.8 | 7.8 | Fog | | | | | |
| 13 14 | 8.0 | 0.0 | 7.8 | 7.8 | Fog | | | | | |
| 15 16 | 10.0 | 0.0 | 7.8 | 7.8 | Fog | | | | | |
| 16 | 4.0 | 1.0 | 7.8 | 7.2 | Fog | | | | | |
| 17 | 2.5 | 0.5 | 7.8 | 7.8 | Fog | | | | | |
| 18 | 3.0 | 0.0 | 7.8 | 7.8 | Fog | | | | | 3 |
| 19 | 2.0 | 0.0 | 7.8 | 7.8 | Fog | | | | | _ |
| 20 | | | 7.8 | 7.8 | Fog | | | | | |
| 21 | | | 7.8 | 7.8 | Fog | | | | | |
| 22 | | | 7.8 | 7.8 | Clear | | | | | |
| 23 | | | 7.8 | 7.8 | Clear | | | | | |
| 23 24 | | | 7.8 | 7.8 | Clear | | | | | |
| 25 | | | 7.8 | 7.8 | Clear | | | | | |
| 25 26 | 12.0 | 10.5 | 7.8 | 7.8 | Fog | | | | | 9 |
| 27 | 14.5 | 1.5 | 7.8 | 7.8 | Fog | | | | | |
| 28 | 16.0 | 4.0 | 7.8 | 7.8 | Fog | | | | | |
| 29 | 14.0 | 3.0 | 7.8 | 7.8 | Fog | | | | | |
| 30 | 17.0 | 5.0 | 7.8 | 7.8 | Fog | | | | | |
| 31 | 18.0 | 9.5 | 7.8 | 7.8 | Fog | | | | | 20 |
| TOTAL | | - | | | | | | | | 81 |
| | IVE TOTAL | 5 | | | | 4296 | 902 | 699 | 14 | 81 |

| ebruary 1977 1 2 3 4 5 | Air Maximum 11.0 23.5 20.0 21.0 | Minimum 5.0 8.0 6.0 | Wat Maximum 7.8 7.8 7.8 7.8 | 7.8 7.8 | Weather Fog | Fall Adults | run Grilse | k salmon Spri Adults | ng run | Steelhead |
|--|--|---------------------|--|------------|----------------|----------------|---------------|----------------------------|--------|-----------|
| 1 2 3 | 11.0 23.5 20.0 21.0 | Minimum 5.0 8.0 6.0 | 7.8 7.8 7.8 | 7.8 7.8 | Fog | | | | | Steelhead |
| 1 2 3 | 23.5 20.0 21.0 | 8.0 6.0 | 7.8 7.8 | 7.8 | | | ··· | | | |
| 2 3 4 5 | 23.5 20.0 21.0 | 8.0 6.0 | 7.8 7.8 | 7.8 | | | | | | |
| 2 3 4 5 | 20.0 21.0 | 6.0 | 7.8 | 1.0 | | | | | | |
| 3 4 5 | 20.0 21.0 | 6.0 | 7.0 7.8 | | Fog | | | | | |
| 4 5 | 20.0 21.0 | 6.0 | , , | 7.8 | Fog | | | | | |
| • | 21.0 | | 7.0 | 7.8 | Cloudy | | | | | |
| 7 | | | 7.8 | 7.8 | Fog | | | | | |
| b | | 5.5 | 7.8 | 7.8 | Clear | | | | | |
| 7 8 | 27.0 | 11.0 | 7.8 | 7.8 | Cloudy | | | | | .= |
| 8 | 24.0 | 11.0 | 7.8 | 7.8 | Clear | | | | | 25 |
| 9 | 24.0 | 8.0 | 7.8 | 7.8 | Clear | | | | | |
| 10 | 26.0 | 8.0 | 7.8 | 7.8 | Clear | | | | | |
| 11 | | | 7.8 | 7.8 | Clear | | | | | |
| 12 | | | 8.3 | 7.8 | Clear | | | | | |
| 13 | | | 8.3 | 8.3 | Clear | | | | | |
| 14 | | | 8.9 | 8.3 | Clear | | | | | |
| 15 | | | 8.9 | 8.9 | Clear | | | | | 23 |
| 16 | | | 8.9 | 8.9 | Clear | | | | | |
| 17 | | | 8.9 | 8.9 | Clear | | | | | |
| 18 | | | 8.9 | 8.3 | Clear | | | | | |
| 19 | | | 8.9 | 8.9 8.9 | Rain | | | | | |
| 20 | | | 8.9 | 8.9 | Rain | | | | | |
| 51 | 15.0 | 3.0 | 8.9 | 8.9 | Clear | | | | | |
| 22 | 15.0 | 1.0 | 8.9 | 8.3 | Rain | | | | | 9 |
| 23 | 14.0 | 1.5 | 8.3 | 8.3 | Rain | | | | | |
| 23 24 | 18.5 | 2.5 | 8.3 | 7.8 | Clear | | | | | |
| 25 | 19.5 | 6.0 | 8.3 | 7.8 | Clear | | | | | |
| 25 26 | -/•/ | 3.0 | 8.3 | 7.8 | Clear | | | | | |
| 27 | | | 8.9 | 8.3 | Clear | | | | | |
| 27 28 | | | 8.9 | 8.3 | Clear | | | | | |
| | | | 0. 3 | | O.L.C. | | | | | |
| TOTAL | IVE TOTALS | | | | | 4296 | 902 | 699 | 14 | 57 138 |

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| 1977 2 3 4 | Ai Maximum | | Wat | | | | | k salmon | | |
|----------------------------------|---------------|---------|---------|---------|-------------|--------|--------|----------|--------------|-----------|
| 1977 1 | | | nat | er | | Fall | | Spri | ng run | |
| | | Minimum | Maximum | Minimum | Weather | Adults | Grilse | | Grilse | Steelhea |
| | 15.0 | 2.5 | 8.9 | 8.3 | Clear | | | | | 15 |
| | 20.0 | 6.0 | 8.3 | 8.3 | Clear | | | | | • |
| 3 | 27.0 | 1.0 | 8.3 | 8.3 | Clear | | | | | |
| Ĭ, | 22.0 | 6.0 | 8.3 | 8.3 | Clear | | | | | |
| 5 | 13.0 | 7.0 | 8.3 | 8.3 | Clear | | | | | |
| 6 | 12.0 | 4.0 | 8.9 | 8.3 | | | | | | 3 |
| 7 | 18.0 | 14.5 | 9.4 | 8.9 | | | | | | |
| ġ. | <u> </u> | | 8.9 | 8.3 | Clear | | | | | |
| ğ | | | 8.9 | 8.3 | Clear | | | | | |
| 5 6 7 8 9 | | | 8.3 | 8.3 | Clear | | | | | |
| 11 | | | 8.3 | 8.3 | Clear | | | | | |
| 11 12 | | | 8.9 | 8.3 | Rain | | • | | | |
| 13 | | | 9.4 | 8.9 | Rain | | | | | |
| 13 14 | 24.5 | 13.0 | 9.4 | 8.9 | Clear | | | | | |
| 15 | 24.5 | 11.0 | 9.4 | 8.9 | Rain | | | | | 6 |
| 15 16 | 15.0 | 8.0 | 8.9 | 8.3 | Rain | | | | | |
| 17 | 20.0 | 2.0 | 8.9 | 8.3 | , | | | | | |
| 18 | | | 8.9 | 8.3 | Clear | | | | | |
| 19 | | | 9.4 | 8.3 | Clear | | | | | |
| 20 | | | 10.6 | 9.4 | Clear | | | | | |
| 21 | 15.0 | 3.0 | 10.6 | 10.6 | Clear | | | | | |
| 22 | 15.0 | 2.0 | 11.1 | 10.6 | Clear | | | | | 1 |
| | 16.0 | 6.0 | 11.1 | 10.6 | Clear | | | | | |
| 23 24 25 26 27 28 | 18.0 | 7.0 | 11.1 | 9.4 | Rain | | | | | |
| 25 | 20.0 | 5.5 | 9.4 | 8.9 | Clear | | | | | |
| 26 | | | 9.4 | 8.9 | Clear | | | | | |
| 27 | | | 10.0 | 8.9 | Clear | | | | | |
| 28 | 26.0 | 5.5 | 10.0 | 8.9 | Clear | | | | | |
| 29 | 27.0 | 9.0 | 10.0 | 9.4 | Clear | | | | | |
| 30 | 29.0 | 10.0 | 10.0 | 9.4 | Clear | | | | | |
| 31 | 26.0 | 9.0 | 10.0 | 9.4 | Clear | | | | | |
| TOTAL | | | | | | | 902 | | | 25 163 |

| Fish trapped | Chinook sal | l run Spring run | Adults Grilse Adults Grilse Steelhead | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|------------------|------------------|---------------------------------------|-------|-------|-------|-------------|----------|-------|-------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|-------|-------|-------|-------------|-------|-------|-------|---------|----------------|
| | | | Weather | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | | Rain | Clear | Clear | Clear | Cloudy Rain |
| | | èr. | Minimum | 4.6 | 10.0 | 10.0 | 9.3 | 10.0 | 10.0 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 11.1 | 17.1 | 11.7 | 12.2 | 12.8 | 11.7 | 11: | : · · | 11.7 | 11.1 | • | 11.7 | 11.7 |
| (60) | re (C') | اتدا | Maximum | 10.0 | 10.6 | 10.6 | 11.1 | 11.1 | 11.1 | 11.1 | 10.6 | 11.1 | 11.7 | 17 | 11.7 | 11.7 | 11.1 | 11.7 | 11.7 | 12.2 | 12.2 | 8.21 9. | 12.8 | 12.8 | 11.7 | ÷8. 1.4. | 12.8 | 11.7 | 12.2 | य: व | 12.2 |
| | Temperature (C') | r | Minimum | 7.0 | 5.0 | 7.0 | 10.0 | 0.6 | 7.0 | 0.0 | 10.0 | | | | | | | | | | | | | | • | | | | | | |
| | | Air | Meximum | 15.5 | 16.5 | 0.4S | 26.0 | 28.5 | 25.0 | 21.0 | 30.0 | | | | | | | | | | | | | | | | o.ਧ੍ਰ | 26.0 | 26.0 | 0.4% | 19.0 21.5 |
| | | April | 1977 | - | ณ | ന. | . \$ | ' | 9 | (- 0 | x 0 | ο, | ខ្ព | ដ | ឌ | 13 | 7. | 15 | 91 | ÌΊ | 18 | 13 | ଷ | ส | ଷ 8 | % | 25 | 98 | 27 | 88 | 3 28 |

| | | | | | | | | F | ish trapp | ed |
|------------------|---------|-----------|---------|---------|-------------|--------|--------|----------|-----------|---------------------------------------|
| | | Temperatu | | | | | | k salmon | l | · · · · · · · · · · · · · · · · · · · |
| May | Ai | | Wat | | | | run | | ng run | |
| 1977 | Maximum | Minimum | Maximum | Minimum | Weather | Adults | Grilse | Adults | Grilse | Steelhead |
| _ | | | | | | | | | | |
| 1 2 3 4 | | | 12.2 | 11.7 | Rain | | | | | |
| 2 | | | 12.8 | 11.7 | Clear | | | | | |
| 3 | | | 12.8 | 12.2 | Clear | | | | | |
| 4 | | | 12.2 | 10.6 | Clear | | | | | |
| 5 6 7 8 | | | 12.2 | 11.1 | Rain | | | | | |
| 6 | | | 12.8 | 11.7 | Overcast | | | | | |
| 7 | | | 12.8 | 12.2 | | | | | | |
| 8 | | | 12.8 | 12.2 | | | | | | |
| . 9 | 16.0 | | 12.8 | 12.2 | Rein | | | | | |
| 10 | 15.0 | | 12.8 | 12.2 | Rain | | | | | |
| 11 | 20.0 | | 12.8 | 12.2 | Overcast | | | | | |
| 12 | 23.0 | | 12.8 | 12.2 | Overcast | | | | | |
| 13 14 | 22.0 | | 12.8 | 12.2 | Clear | | | | | |
| 14 | 21.0 | | 13.3 | 12.2 | Clear | | | | | |
| 15 | 20.0 | | 13.3 | 12.2 | Clear | | | | | |
| 15 16 | 22.0 | | 14.4 | 12.8 | Clear | | | | | |
| 17 | 24.0 | | 13.9 | 12.2 | Clear | | | | | |
| 17 18 | 15.5 | | 13.9 | 13.3 | Cloudy | | | | | |
| 19 | 27.0 | | 13.9 | 13.3 | Clear | | | | | |
| 19 20 | 29.5 | | 13.9 | 13.3 | Clear | | | | | |
| 21 | 27.0 | | 14.4 | 13.3 | Clear | | | | | |
| 22 | 4,00 | | 13.9 | 13.3 | Cloudy | | | | | |
| 23 24 | | | 14.4 | 13.3 | Cloudy | | | | | |
| 24 | | | 14.4 | 13.3 | Clear | | | | | |
| 25 | 32.5 | 10.5 | 14.4 | 13.3 | Cloudy | | | | | |
| 25 26 | 30.Ó | 13.0 | 13.0 | 12.8 | Clear | | | | | |
| 27 | 24.0 | 8.5 | 13.9 | 12.8 | Clear | | | | | |
| 27 28 | 26.0 | 9.0 | 13.9 | 13.3 | Clear | | | | | |
| 29 | 24.0 | 14.0 | 13.9 | 13.9 | Clear | | | | | |
| 30 | 32.0 | 17.0 | 13.9 | 13.9 | | | | | | |
| 29 30 31 | 35.5 | 13.0 | 14.4 | 12.8 | Clear | | | | | |

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| | | | 4> | | • | | | | ish trapp | ed |
|---|---------|-----------|---------------|---------|---------|--------|--------|----------|-----------|-----------|
| | | Temperatu | | | | | | k salmon | | |
| June | Ai | | Wat | | | Fall | | | ng run | |
| 1977 | Maximum | Minimum | Maximum | Minimum | Weather | Adults | Grilse | Adults | Grilse | Steelhead |
| 1 | | | 14.4 | 13.9 | Clear | | | | | |
| 2 | | | 15.0 | 13.9 | Clear | | | | | |
| 3 | | | 15.0 | 14.4 | Clear | | | | | |
| ŭ | | | 15.6 | 14.4 | Clear | | | | | |
| 5 | | | 15.6 | 15.0 | Clear | | | | | |
| 6 | | | 15.6 | 14.4 | Clear | | | | | |
| 7 | | | 15.6 | 13.9 | Cloudy | | | | | |
| 1 2 3 4 5 6 7 8 9 10 | 33.0 | 16.0 | 14.4 | 12.8 | Clear | | | | | |
| 9 | 19.5 | 12.0 | 13.3 | 12.8 | Clear | | | | | |
| 1Ó | 19.5 | 12.0 | 13.3 | 12.8 | Cloudy | | | | | |
| n | 16.0 | 13.0 | 13.3 | 12.8 | Cloudy | | | | | |
| 11 12 13 14 | 27.0 | 12.5 | 13.3 | 12.8 | Claudy | | | | | |
| 13 | 28.0 | 11.0 | 13.3 | 12.2 | Cloudy | | | | | |
| 14 | 30.0 | 12.0 | 13.3 | 13.3 | Clear | | | | | |
| 15 16 | 36.0 | 21.0 | 13.9 | 13.3 | Clear | | | | | |
| 16 | 32.0 | 22.0 | 13.9 | 13.3 | Clear | | | | | |
| 17 | 34.0 | 15.0 | 14.4 | 13.9 | Clear | | | | | |
| 18 | 31.0 | 15.0 | 14.4 | 13.3 | Clear | | | | | |
| 19 | 29.0 | 13.0 | 13.9 | 13.3 | Cloudy | | | | | |
| 20 | 17.5 | 11.0 | 14.4 | 13.3 | Clear | | | | | |
| 21 | 32.0 | 13.0 | 15.0 | 13.9 | Clear | | | | | |
| 22 | 34.0 | 15.0 | 15.6 | 14.4 | Clear | | | | | |
| 23 24 | 30.0 | 14.5 | 15.0 | 14.4 | Clear | | | | | |
| 24 | 35.0 | 13.0 | 15.6 | 15.0 | Clear | | | | | |
| 25 | 30.0 | 13.5 | 15.6 | 15.6 | Clear | | | | | |
| 26 | 36.0 | 16.0 | 16.1 | 15.0 | Clear | | | | | |
| 27 | 37.0 | 15.5 | 16.1 | 14.4 | Clear | | | | | |
| 28 | 32.0 | 13.0 | 16.1 | 15.6 | Clear | | | | | |
| 29 | | | 16 <i>.</i> 1 | 15.6 | Clear | | | | | |
| 30 | | | 16.7 | 16.1 | Clear | | | | | |