

ANNUAL REPORT  
TRINITY RIVER SALMON AND STEELHEAD HATCHERY  
1983-84 <sup>1/</sup>

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, 1983 through June 30, 1984. King salmon Oncorhynchus tshawytscha, silver salmon Oncorhynchus kisutch, and steelhead Salmo gairdnerii gairdnerii were reared.

Tables present the numbers of adults spawned and eggs and fish produced and planted. The appendix tables present the daily weather, water temperature, and fish trapping data for the fiscal year, and a summary of Trinity River Salmon and Steelhead Hatchery fish runs.

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INTRODUCTION

This is the twenty-sixth 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, 1983 through June 30, 1984. Copies of previous annual reports are available upon request from the Anadromous Fisheries Branch, Sacramento.

PRODUCTION SUMMARY

The ladder was opened and spring-run chinook salmon began entering the hatchery September 2, 1983. The run continued until about October 13, at which time the majority of the salmon arriving were fall-run. The last of the chinook salmon entered the hatchery on December 1, 1983. Coho salmon were trapped from October 6, 1983 through December 12, 1983. Steelhead entered the hatchery from November 21, 1983 through March 29, 1984.

TABLE 1. Production Summary 1983-84

| Species        | Number trapped | Number females spawned | Eggs taken or received  | Number fingerlings planted | Number yearlings planted | Total pounds planted | On hand June 30, 1984 |
|----------------|----------------|------------------------|-------------------------|----------------------------|--------------------------|----------------------|-----------------------|
| Chinook salmon | 6,923          | 2,849                  | 5,680,541               | 2,575,335                  | 1,193,105                | 130,570              | 1,600,000             |
| Coho salmon    | 706            | 216                    | 432,676                 | 0                          | 560,298                  | 70,065               | 160,000               |
| Steelhead      | 603            | 340                    | 1,069,588 <sup>a/</sup> | 0                          | 237,000                  | 24,555               | 900,000               |
| Totals         | 8,232          | 3,405                  | 7,182,805               | 2,575,335                  | 1,990,403                | 225,190              | 2,660,000             |

<sup>a/</sup> 607,260 Trinity River strain; 462,328 Trinity River Iron Gate strain.

No fish or eggs were shipped or received this fiscal year.

HATCHERY OPERATION

All production fish were reared on a diet of Oregon Moist Pellet (OMP). A total of 431,550 lbs of feed produced 225,190 lbs of fish during fiscal year 1983-84. The feed conversion rate (pounds of feed required to raise one pound of fish) was 1.92.

The single most notable happening at Trinity River Hatchery this past year was the discovery of Enteric Redmouth disease (ERM). Apparently introduced through the planting of diseased fish in Lewiston Reservoir above the hatchery intake, this new scourge caused moderate losses among chinook yearlings. Along with the known loss, there is a question regarding the quality of the fish planted. Although diagnosed in the coho and steelhead yearlings, ERM caused little mortality and had no apparent effect on the overall quality of these fish. We hope to control ERM by vaccination of the fish and disinfection of the ponds with chlorine.

Hatchery staff counted 9,754 visitors in 1983-84. Guided tours were provided for several large groups, most of which were from schools in the area.

## CHINOOK SALMON MAINTENANCE PROGRAM

### History of the 1983 Run

Chinook salmon were first seen in the upper river below Lewiston Dam on July 25. The ladder was opened September 2, and spawning operations began September 12.

#### Spring Run

Between September 6 and October 13, a total of 1,135 chinook salmon, mostly spring run, was trapped at the hatchery. This number included 394 males; 462 females; and 279 grilse. Chinook salmon males <56 cm (22 inches) FL are considered grilse. The 313 females spawned during this period produced 701,596 eggs, an average of 2,242/female. Egg size averaged 95/ounce.

#### Fall Run

There were 5,788 chinook salmon trapped from October 17 to December 1: 2,370 males; 2,794 females; and 624 grilse. All were assumed to be fall run. The 2,536 females spawned produced 4,978,945 eggs, an average of 1,963/female.

### Marked Chinook Salmon Returns

There were 1,471 chinook salmon marked Ad and tagged with coded wire tags (CWT) trapped at the hatchery during the 1983 season.

### Planting 1982 Brood Year Chinook Salmon

We planted a total of 1,193,105 chinook salmon yearlings during this fiscal year (Table 2).

We planted a total of 582,805 chinook salmon (1982 brood year) during the last fiscal year. Of the 6,790,740 (spring and fall combined) brood year 1982 chinook salmon eggs taken or received by transfer 1,775,910 (26%) were eventually planted. The large difference between salmon eggs taken and received and fish eventually planted was due to factors including: a severe white spot problem with eggs received from Iron Gate; loss from ERM and virus; and loss from predation by otters and herons.

TABLE 2. Yearling Chinook Salmon Planted, 1983/84\*

| Date     | Race             | Size/lb | Number    |
|----------|------------------|---------|-----------|
| 11/02/83 | Trinity (Spring) | 13.7    | 177,620   |
| 11/03/83 | Trinity (Spring) | 12.3    | 45,817    |
| 11/03/83 | Trinity (Spring) | 12.3    | 108,855   |
| 11/03/83 | Klamath (Fall)   | 13.2    | 48,510    |
| 11/04/83 | Klamath (Fall)   | 13.0    | 17,225    |
| 11/04/83 | Klamath (Fall)   | 16.8    | 73,920    |
| 11/04/83 | Klamath (Fall)   | 12.4    | 80,600    |
| 11/07/83 | Klamath (Fall)   | 14.0    | 70,980    |
| 11/07/83 | Klamath (Fall)   | 12.6    | 57,960    |
| 11/08/83 | Klamath (Fall)   | 12.8    | 66,880    |
| 11/08/83 | Trinity (Fall)   | 9.4     | 22,560    |
| 11/08/83 | Trinity (Fall)   | 11.7    | 71,370    |
| 11/08/83 | Trinity (Fall)   | 15.2    | 44,840    |
| 11/09/83 | Trinity (Fall)   | 14.3    | 58,630    |
| 11/09/83 | Trinity (Fall)   | 12.3    | 40,713    |
| 11/09/83 | Trinity (Fall)   | 20.7    | 70,898    |
| 11/10/83 | Trinity (Fall)   | 13.8    | 36,087    |
| 11/10/83 | Trinity (Fall)   | 10.5    | 15,225    |
| 11/10/83 | Trinity (Fall)   | 11.4    | 13,680    |
| 11/14/83 | Trinity (Fall)   | 11.3    | 21,526    |
| 11/14/83 | Trinity (Fall)   | 13.4    | 26,934    |
| 11/15/83 | Trinity (Fall)   | 11.0    | 22,275    |
| Total    |                  |         | 1,193,105 |

\*All fish planted at the hatchery, with the exception of the last three groups which were planted at Steelbridge, Junction City, and Lime Point respectively.

Planting 1983 Brood Year Chinook Salmon

A total of 2,575,335 chinook salmon fingerlings were planted in 1984 (Table 3).

TABLE 3. 1983 Brood Year Fingerling Chinook Salmon Planted in 1984

| Date    | Race           | Size/lb | Release site  | Number    |
|---------|----------------|---------|---------------|-----------|
| 6/01/84 | Trinity (Fall) | 70      | Hatchery      | 381,500   |
| 6/04/84 | Trinity (Fall) | 90      | Hatchery      | 396,000   |
| 6/05/84 | Trinity (Fall) | 63      | Hatchery      | 289,800   |
| 6/06/84 | Trinity (Fall) | 74      | Hatchery      | 196,100   |
| 6/06/84 | Trinity (Fall) | 66      | Hatchery      | 412,500   |
| 6/07/84 | Trinity (Fall) | 59      | Hatchery      | 200,010   |
| 6/19/84 | Trinity (Fall) | 46      | Steelbridge   | 95,450    |
| 6/20/84 | Trinity (Fall) | 49      | Junction City | 100,450   |
| 6/22/84 | Trinity (Fall) | 46      | Lime Point    | 103,500   |
| 6/26/84 | Trinity (Fall) | 53      | Hatchery      | 176,225   |
| 6/26/84 | Trinity (Fall) | 52      | Hatchery      | 223,800   |
| Total   |                |         |               | 2,575,335 |

### COHO SALMON MAINTENANCE PROGRAM

#### History of the 1983 Run

Coho salmon entered the hatchery from October 6 through December 12, 1983. We trapped 706 fish: 223 males; 256 females; and 227 grilse. We spawned 216 females from November 14 through December 15. They produced 432,676 eggs, an average of 2,003/female. Egg size averaged 119/ounce.

#### Marked Coho Salmon Returns

A total of 390 of the coho salmon trapped was marked Ad and CWT.

#### Planting 1982 Brood Year Coho Salmon

TABLE 4. Coho Salmon Yearlings Planted in 1984\*

| Date    | Race    | Size/lb | Number  |
|---------|---------|---------|---------|
| 2/23/84 | Trinity | 13.3    | 49,410  |
| 3/12/84 | Trinity | 12.6    | 49,290  |
| 3/20/84 | Trinity | 5.6     | 69,860  |
| 3/21/84 | Trinity | 5.3     | 65,853  |
| 3/22/84 | Trinity | 6.7     | 94,342  |
| 3/22/84 | Trinity | 8.5     | 26,775  |
| 4/02/84 | Trinity | 11.0    | 105,490 |
| 4/16/84 | Trinity | 11.0    | 51,150  |
| 4/30/84 | Trinity | 9.3     | 48,128  |
|         |         | Total   | 560,298 |

\*All fish planted at the hatchery.

### STEELHEAD MAINTENANCE PROGRAM

#### History of the 1983-84 Steelhead Run

The steelhead run at Trinity River Hatchery consisted of 603 fish: 240 males and 363 females. As determined by fin clips, 251 of the fish were Trinity River strain; 20 were marked Iron Gate fish; and 332 were unmarked and probably mostly Iron Gate strain.

From December 19, 1983 through April 2, 1984, 183 of the Iron Gate females were spawned. They produced 462,328 eggs, an average of 2,526/female. Egg size averaged 230/ounce. From December 19, 1983 through April 2, 1984, 157 Trinity River females were spawned. They produced 607,260 eggs, an average of 3,868/female. Egg size averaged 218/ounce.

#### STEELHEAD PLANTED

We planted 237,000 steelhead in FY 1983-84 (Table 6).

TABLE 6. Steelhead Planted in 1983-84 FY

| Strain and brood year | Date released | Average size/lb | Mark | Release site | Number released |
|-----------------------|---------------|-----------------|------|--------------|-----------------|
| Trinity River-1983    | 3/01/84       | 10              | None | Hatchery     | 53,000          |
| Trinity River-1983    | 3/02/84       | 10              | None | Hatchery     | 31,000          |
| Trinity River-1983    | 3/05/84       | 10              | None | Hatchery     | 35,800          |
| Iron Gate-1983        | 3/05/84       | 8               | None | Hatchery     | 10,000          |
| Iron Gate-1983        | 3/06/84       | 9               | None | Hatchery     | 54,450          |
| Iron Gate-1983        | 3/07/84       | 10              | None | Hatchery     | 52,750          |
|                       |               |                 |      | Total        | <u>237,000</u>  |

Marked Steelhead Returns

Of the 603 steelhead trapped at Trinity River Hatchery during the 1983-84 season 271 (45%) were marked (Table 7).

BROWN TROUT MAINTENANCE PROGRAM

No brown trout were spawned or planted during fiscal year 1983-84.

TABLE 7. Steelhead Recovered at Trinity River Hatchery, 1983-84

| Mark     | Number trapped | Mean fork length in inches (range) | Probable origin |              |          |         |               |
|----------|----------------|------------------------------------|-----------------|--------------|----------|---------|---------------|
|          |                |                                    | Brood year      | Date planted | Location | Number  | Strain        |
| Ad       | 211            | 22.5 (15.0-29.0)                   | 1981 & 1982*    |              | Hatchery |         | Trinity River |
| LV-RV    | 39             | 25.5 (18.0-30.5)                   | 1980            | 4/14/81      | Hatchery | 51,800  | Trinity River |
| RV       | 8              | 20.5 (17.0-27.5)                   | 1980            | 4/15/81      | Hatchery | 60,217  | Iron Gate     |
| Ad-LV    | 11             | 22.0 (16.5-28.5)                   | 1980            | 4/15-4/28/81 | Hatchery | 85,575  | Iron Gate     |
| LV-RP    | 1              | 20.0 (20.0)                        | 1979            | 4/19-4/30/80 | Hatchery | 113,625 | Iron Gate     |
| Ad-RP-LV | 1              | 17.0 (17.0)                        | 1979            | 3/26/81      | Hatchery | 29,104  | Trinity River |
| No mark  | 332            | 20.5 (14.0-29.0)                   |                 |              |          |         |               |
| Totals   | 603            |                                    |                 |              |          | 340,321 |               |

\*1981 and 1982 Mark used for hatchery identification only.

APPENDIX TABLE 1. Summary of Fish Runs to Trinity River  
Salmon and Steelhead Hatchery

|         | Chinook salmon |         |        | Coho salmon |         |        | Steelhead | Brown trout |
|---------|----------------|---------|--------|-------------|---------|--------|-----------|-------------|
|         | Males          | Females | Grilse | Males       | Females | Grilse |           |             |
| 1958-59 | 1,269          | 1,744   | 878    | 240         | 343     | 33     | 2,880     | 80          |
| 1959-60 | 1,716          | 2,833   | 2,701  | 49          | 44      | 26     | 2,071     | 52          |
| 1960-61 | 1,493          | 1,287   | 4,130  | 84          | 54      | 70     | 3,526     | 82          |
| 1961-62 | 885            | 1,613   | 2,899  | 158         | 160     | 37     | 3,243     | 35          |
| 1962-63 | 1,308          | 1,608   | 6,535  | 7           | 0       | 9      | 1,687     | 49          |
| 1963-64 | 1,569          | 2,627   | 2,539  | 32          | 40      | 11     | 894       | 34          |
| 1964-65 | 1,974          | 3,042   | 1,287  | 23          | 25      | 2      | 6,941     | 145         |
| 1965-66 | 477            | 1,077   | 1,521  | 2           | 1       | 9      | 992       | 100         |
| 1966-67 | 1,052          | 1,002   | 2,876  | 45          | 173     | 807    | 135       | 152         |
| 1967-68 | 1,620          | 1,250   | 1,746  | 287         | 519     | 59     | 232       | 231         |
| 1968-69 | 1,797          | 2,102   | 873    | 3           | 1       | 34     | 554       | 170         |
| 1969-70 | 624            | 832     | 1,130  | 153         | 132     | 1,711  | 241       | 70          |
| 1970-71 | 773            | 725     | 2,946  | 1,410       | 1,396   | 341    | 67        | 23          |
| 1971-72 | 3,648          | 4,645   | 928    | 28          | 11      | 8      | 242       | 7           |
| 1972-73 | 5,217          | 5,825   | 339    | 28          | 30      | 2,612  | 271       | 111         |
| 1973-74 | 2,483          | 1,152   | 1,577  | 3,808       | 3,787   | 486    | 162       | 39          |
| 1974-75 | 4,547          | 2,840   | 677    | 33          | 22      | 40     | 372       | 32          |
| 1975-76 | 2,958          | 3,405   | 860    | 68          | 109     | 2,060  | 175       | 24          |
| 1976-77 | 2,845          | 1,901   | 2,878  | 1,171       | 1,414   | 223    | 13        | 49          |
| 1977-78 | 1,841          | 1,318   | 2,562  | 381         | 317     | 1,230  | 285       | 0           |
| 1978-79 | 4,478          | 5,131   | 1,287  | 580         | 995     | 2,080  | 683       | 0           |
| 1979-80 | 1,138          | 1,480   | 1,452  | 1,241       | 1,547   | 1,253  | 382       | 0           |
| 1980-81 | 2,745          | 2,271   | 2,242  | 753         | 1,070   | 1,500  | 2,019     | 0           |
| 1981-82 | 2,214          | 2,514   | 1,146  | 830         | 1,164   | 2,529  | 1,007     | 0           |
| 1982-83 | 1,874          | 1,683   | 4,112  | 1,686       | 2,112   | 1,000  | 715       | 0           |
| 1983-84 | 2,764          | 3,256   | 903    | 223         | 256     | 227    | 603       | 0           |

APPENDIX TABLE 2.

Trinity River Salmon and Steelhead Hatchery Weather,  
and Water Data, and Counts of Fish during Spawning  
Operations, July 1, 1983, through June 30, 1984

| July | Temperature ° F |         |         |         | Weather       | Flow of<br>Trinity River<br>at Lewiston<br>(cfs)* | Fish trapped   |        |               |        |           |
|------|-----------------|---------|---------|---------|---------------|---|----------------|--------|---------------|--------|-----------|
|      | Air             |         | Water   |         |               |   | Chinook salmon |        | Silver salmon |        | Steelhead |
|      | Maximum         | Minimum | Maximum | Minimum |               |   | Adults         | Grilse | Adults        | Grilse |           |
| 1    | 74              | 60      | 50      | 49      | partly cloudy | 1570  |                |        |               |        |           |
| 2    | 77              | 48      | 50      | 47      | clear         | 1580  |                |        |               |        |           |
| 3    | 88              | 43      | 51      | 48      | clear         | 1570  |                |        |               |        |           |
| 4    | 96              | 52      | 51      | 49      | clear         | 1570  |                |        |               |        |           |
| 5    | 94              | 54      | 53      | 49      | clear         | 1720  |                |        |               |        |           |
| 6    | 81              | 53      | 52      | 50      | clear         | 1880  |                |        |               |        |           |
| 7    | 71              | 53      | 50      | 48      | cloudy        | 1870  |                |        |               |        |           |
| 8    | 73              | 43      | 50      | 48      | cloudy-rain   | 1880  |                |        |               |        |           |
| 9    | 80              | 42      | 50      | 48      | fog-clear     | 1870  |                |        |               |        |           |
| 10   | 92              | 43      | 51      | 48      | clear         | 1880  |                |        |               |        |           |
| 11   | 98              | 48      | 52      | 48      | clear         | 1870  |                |        |               |        |           |
| 12   | 95              | 53      | 52      | 49      | clear-winds   | 1860  |                |        |               |        |           |
| 13   | 98              | 57      | 53      | 50      | clear-winds   | 1560  |                |        |               |        |           |
| 14   | 85              | 59      | 53      | 51      | partly cloudy | 529   |                |        |               |        |           |
| 15   | 85              | 47      | 52      | 51      | clear         | 534   |                |        |               |        |           |
| 16   | 83              | 48      | 51      | 49      | partly cloudy | 1040  |                |        |               |        |           |
| 17   | 75              | 43      | 52      | 49      | partly cloudy | 1040  |                |        |               |        |           |
| 18   | 78              | 45      | 52      | 49      | partly cloudy | 1040  |                |        |               |        |           |
| 19   | 73              | 50      | 51      | 49      | partly cloudy | 1030  |                |        |               |        |           |
| 20   | 85              | 53      | 50      | 49      | partly cloudy | 877   |                |        |               |        |           |
| 21   | 90              | 47      | 54      | 49      | clear         | 586   |                |        |               |        |           |
| 22   | 89              | 48      | 52      | 49      | clear         | 419   |                |        |               |        |           |
| 23   | 87              | 50      | 53      | 50      | clear         | 419   |                |        |               |        |           |
| 24   | 85              | 50      | 54      | 50      | clear         | 419   |                |        |               |        |           |
| 25   | 83              | 55      | 52      | 50      | partly cloudy | 418   |                |        |               |        |           |
| 26   | 87              | 52      | 55      | 51      | partly cloudy | 439   |                |        |               |        |           |
| 27   | 89              | 50      | 55      | 51      | clear         | 452   |                |        |               |        |           |
| 28   | 91              | 53      | 56      | 52      | partly cloudy | 452   |                |        |               |        |           |
| 29   | 98              | 55      | 53      | 53      | clear         | 451   |                |        |               |        |           |
| 30   | 96              | 54      | 53      | 53      | clear         | 450   |                |        |               |        |           |
| 31   | 95              | 55      | 54      | 52      | clear         | 448   |                |        |               |        |           |

\*From USGS records.

APPENDIX TABLE 2. (Continued)

| August | Temperature° F |         |         |         | Weather       | Flow of<br>Trinity River<br>at Lewiston<br>(cfs)* | Fish trapped   |        |               |           |
|--------|----------------|---------|---------|---------|---------------|---|----------------|--------|---------------|-----------|
|        | Air            |         | Water   |         |               |   | Chinook salmon |        | Silver salmon | Steelhead |
|        | Maximum        | Minimum | Maximum | Minimum |               |   | Adults         | Grilse | Adults        |           |
| 1      | 93             | 57      | 61      | 52      | clear         | 445   |                |        |               |           |
| 2      | 93             | 55      | 57      | 55      | clear         | 446   |                |        |               |           |
| 3      | 92             | 56      | 59      | 55      | clear         | 444   |                |        |               |           |
| 4      | 88             | 53      | 57      | 53      | clear         | 444   |                |        |               |           |
| 5      | 94             | 51      | 57      | 53      | partly cloudy | 445   |                |        |               |           |
| 6      | 103            | 51      | 57      | 54      | clear         | 449   |                |        |               |           |
| 7      | 94             | 63      | 59      | 55      | partly cloudy | 443   |                |        |               |           |
| 8      | 99             | 60      | 56      | 53      | clear         | 447   |                |        |               |           |
| 9      | 93             | 55      | 58      | 53      | clear         | 444   |                |        |               |           |
| 10     | 89             | 51      | 56      | 53      | partly cloudy | 447   |                |        |               |           |
| 11     | 91             | 53      | 55      | 52      | clear         | 449   |                |        |               |           |
| 12     | 97             | 50      | 56      | 51      | clear         | 449   |                |        |               |           |
| 13     | 98             | 57      | 54      | 53      | showers       | 446   |                |        |               |           |
| 14     | 97             | 54      | 55      | 52      | clear         | 448   |                |        |               |           |
| 15     | 96             | 59      | 56      | 52      | partly cloudy | 449   |                |        |               |           |
| 16     | 98             | 57      | 55      | 52      | clear         | 449   |                |        |               |           |
| 17     | 97             | 55      | 57      | 52      | clear         | 447   |                |        |               |           |
| 18     | 95             | 53      | 57      | 52      | clear         | 448   |                |        |               |           |
| 19     | 66             | 63      | 52      | 52      | rain          | 450   |                |        |               |           |
| 20     | 82             | 60      | 52      | 51      | partly cloudy | 444   |                |        |               |           |
| 21     | 84             | 54      | 51      | 50      | rain/thunder  | 449   |                |        |               |           |
| 22     | 79             | 56      | 54      | 50      | rain          | 451   |                |        |               |           |
| 23     | 80             | 58      | 54      | 52      | clear         | 452   |                |        |               |           |
| 24     | 82             | 53      | 54      | 51      | partly cloudy | 450   |                |        |               |           |
| 25     | 80             | 53      | 56      | 51      | partly cloudy | 448   |                |        |               |           |
| 26     | 84             | 54      | 53      | 51      | partly cloudy | 451   |                |        |               |           |
| 27     | 84             | 50      | 52      | 50      | clear         | 448   |                |        |               |           |
| 28     | 84             | 50      | 53      | 50      | partly cloudy | 451   |                |        |               |           |
| 29     | 70             | 54      | 52      | 50      | partly cloudy | 447   |                |        |               |           |
| 30     | 70             | 59      | 51      | 51      | showers       | 446   |                |        |               |           |
| 31     | 58             | 55      | 51      | 51      | rain          | 448   |                |        |               |           |

\*From USGS records

APPENDIX TABLE 2. (Continued)

| September | Temperature ° F |         |         |         | Weather       | Flow of<br>Trinity River<br>at Lewiston<br>(cfs)* | Fish trapped   |        |               |        |           |
|-----------|-----------------|---------|---------|---------|---------------|---|----------------|--------|---------------|--------|-----------|
|           | Air             |         | Water   |         |               |   | Chinook salmon |        | Silver salmon |        | Steelhead |
|           | Maximum         | Minimum | Maximum | Minimum |               |   | Adults         | Grilse | Adults        | Grilse |           |
| 1         | 72              | 54      | 51      | 49      | partly cloudy | 418   |                |        |               |        |           |
| 2         | 80              | 48      | 51      | 49      | fog-clear     | 397   |                |        |               |        |           |
| 3         | 90              | 50      | 52      | 50      | fog-clear     | 402   |                |        |               |        |           |
| 4         | 95              | 50      | 52      | 50      | fog-clear     | 397   |                |        |               |        |           |
| 5         | 97              | 50      | 53      | 50      | fog-clear     | 396   |                |        |               |        |           |
| 6         | 90              | 51      | 58      | 50      | clear         | 360   | 10             | 4      |               |        |           |
| 7         | 82              | 52      | 56      | 52      | clear         | 330   |                |        |               |        |           |
| 8         | 72              | 46      | 53      | 52      | clear         | 333   |                |        |               |        |           |
| 9         | 82              | 40      | 53      | 52      | clear         | 335   |                |        |               |        |           |
| 10        | 89              | 42      | 53      | 52      | clear         | 332   |                |        |               |        |           |
| 11        | 95              | 49      | 55      | 53      | clear         | 335   |                |        |               |        |           |
| 12        | 96              | 53      | 60      | 53      | clear         | 333   | 34             | 7      |               |        |           |
| 13        | 94              | 54      | 59      | 56      | clear         | 332   |                |        |               |        |           |
| 14        | 94              | 52      | 60      | 56      | clear         | 333   |                |        |               |        |           |
| 15        | 97              | 50      | 59      | 56      | clear         | 330   | 36             | 6      |               |        |           |
| 16        | 93              | 52      | 59      | 56      | clear         | 331   |                |        |               |        |           |
| 17        | 92              | 49      | 59      | 55      | clear         | 333   |                |        |               |        |           |
| 18        | 86              | 49      | 56      | 56      | clear         | 325   |                |        |               |        |           |
| 19        | 77              | 49      | 57      | 54      | clear         | 324   | 44             | 16     |               |        |           |
| 20        | 86              | 40      | 55      | 53      | clear         | 325   |                |        |               |        |           |
| 21        | 80              | 42      | 55      | 52      | overcast      | 329   |                |        |               |        |           |
| 22        | 64              | 42      | 55      | 53      | cloudy        | 334   | 52             | 27     |               |        |           |
| 23        | 70              | 56      | 55      | 54      | cloudy        | 332   |                |        |               |        |           |
| 24        | 82              | 57      | 58      | 55      | fog-clear     | 327   |                |        |               |        |           |
| 25        | 84              | 52      | 58      | 54      | fog-clear     | 325   |                |        |               |        |           |
| 26        | 84              | 50      | 59      | 55      | fog-clear     | 325   | 123            | 38     |               |        |           |
| 27        | 79              | 50      | 54      | 53      | partly cloudy | 324   |                |        |               |        |           |
| 28        | 80              | 50      | 54      | 52      | fog-clear     | 325   |                |        |               |        |           |
| 29        | 76              | 48      | 54      | 52      | fog-clear     | 325   | 78             | 22     |               |        |           |
| 30        | 64              | 54      | 54      | 52      | rain-cloudy   | 322   |                |        |               |        |           |
| TOTALS    |                 |         |         |         |               |   | 377            | 120    |               |        |           |

\*From USGS records

APPENDIX TABLE 2. (Continued)

| October           | Temperature ° F |         |         |         | Weather       | Flow of<br>Trinity River<br>at Lewiston<br>(cfs)* | Fish trapped   |        |               |        |           |
|-------------------|-----------------|---------|---------|---------|---------------|---|----------------|--------|---------------|--------|-----------|
|                   | Air             |         | Water   |         |               |   | Chinook salmon |        | Silver salmon |        | Steelhead |
|                   | Maximum         | Minimum | Maximum | Minimum |               |   | Adults         | Grilse | Adults        | Grilse |           |
| 1                 | 73              | 50      | 54      | 52      | fog-cloudy    | 323   |                |        |               |        |           |
| 2                 | 74              | 50      | 52      | 52      | fog-cloudy    | 325   |                |        |               |        |           |
| 3                 | 77              | 49      | 53      | 51      | fog-clear     | 324   | 203            | 49     |               |        |           |
| 4                 | 84              | 49      | 54      | 52      | fog-clear     | 318   |                |        |               |        |           |
| 5                 | 82              | 50      | 54      | 52      | fog-clear     | 316   |                |        |               |        |           |
| 6                 | 82              | 50      | 54      | 52      | fog-clear     | 316   | 76             | 35     |               | 1      |           |
| 7                 | 83              | 52      | 54      | 49      | fog-clear     | 318   |                |        |               |        |           |
| 8                 | 75              | 52      | 54      | 52      | fog-cloudy    | 319   |                |        |               |        |           |
| 9                 | 62              | 54      | 53      | 53      | rain          | 318   |                |        |               |        |           |
| 10                | 76              | 53      | 53      | 52      | fog-clear     | 319   |                |        |               |        |           |
| 11                | 75              | 48      | 53      | 52      | fog-clear     | 320   | 135            | 46     |               | 1      |           |
| 12                | 78              | 47      | 54      | 52      | fog-clear     | 319   |                |        |               |        |           |
| 13                | 68              | 40      | 53      | 52      | clear         | 320   | 65             | 29     |               |        |           |
| 14                | 68              | 40      | 52      | 52      | fog-clear     | 320   |                |        |               |        |           |
| 15                | 74              | 37      | 52      | 51      | fog-clear     | 320   |                |        |               |        |           |
| 16                | 72              | 38      | 52      | 51      | fog-clear     | 320   |                |        |               |        |           |
| 17                | 74              | 38      | 52      | 50      | fog-clear     | 321   | 205            | 77     | 2             | 4      |           |
| 18                | 74              | 40      | 52      | 51      | fog-clear     | 322   |                |        |               |        |           |
| 19                | 74              | 38      | 52      | 51      | fog-clear     | 325   |                |        |               |        |           |
| 20                | 76              | 42      | 52      | 51      | clear         | 325   | 249            | 122    | 3             | 4      |           |
| 21                | 75              | 42      | 51      | 51      | partly cloudy | 325   |                |        |               |        |           |
| 22                | 77              | 43      | 51      | 50      | partly cloudy | 325   |                |        |               |        |           |
| 23                | 66              | 54      | 52      | 51      | rain-cloudy   | 325   |                |        |               |        |           |
| 24                | 72              | 48      | 52      | 52      | partly cloudy | 325   | 441            | 228    | 4             | 15     |           |
| 25                | 75              | 46      | 52      | 51      | fog-clear     | 325   |                |        |               |        |           |
| 26                | 72              | 42      | 52      | 50      | fog-clear     | 326   |                |        |               |        |           |
| 27                | 70              | 42      | 52      | 51      | partly cloudy | 325   | 632            | 54     | 7             | 12     |           |
| 28                | 74              | 44      | 52      | 50      | fog-cloudy    | 325   |                |        |               |        |           |
| 29                | 58              | 48      | 51      | 51      | fog-showers   | 325   |                |        |               |        |           |
| 30                | 58              | 48      | 52      | 51      | fog-rain      | 325   |                |        |               |        |           |
| 31                | 64              | 52      | 51      | 51      | fog-rain      | 326   | 671            | 52     | 15            | 23     |           |
| TOTALS            |                 |         |         |         |               |   | 2,677          | 692    | 31            | 60     |           |
| Cumulative Totals |                 |         |         |         |               |   | 3,054          | 812    | 31            | 60     |           |

\*From USGS records.

APPENDIX TABLE 2. (Continued)

| November                 | Temperature ° F |         |         |         | Weather       | Flow of<br>Trinity River<br>at Lewiston<br>(cfs)* | Fish trapped   |            |               |            |           |
|--------------------------|-----------------|---------|---------|---------|---------------|---|----------------|------------|---------------|------------|-----------|
|                          | Air             |         | Water   |         |               |   | Chinook salmon |            | Silver salmon |            | Steelhead |
|                          | Maximum         | Minimum | Maximum | Minimum |               |   | Adults         | Grilse     | Adults        | Grilse     |           |
| 1                        | 62              | 52      | 51      | 51      | cloudy-rain   | 327   |                |            |               |            |           |
| 2                        | 58              | 50      | 51      | 51      | cloudy-rain   | 328   |                |            |               |            |           |
| 3                        | 68              | 52      | 51      | 50      | cloudy-rain   | 330   | 773            | 38         | 33            | 34         |           |
| 4                        | 62              | 50      | 50      | 50      | partly cloudy | 330   |                |            |               |            |           |
| 5                        | 62              | 43      | 51      | 50      | partly cloudy | 330   |                |            |               |            |           |
| 6                        | 55              | 50      | 51      | 51      | rain-cloudy   | 330   |                |            |               |            |           |
| 7                        | 54              | 36      | 49      | 49      | fog-clear     | 329   | 725            | 29         | 47            | 20         |           |
| 8                        | 52              | 37      | 49      | 48      | partly cloudy | 330   |                |            |               |            |           |
| 9                        | 44              | 39      | 48      | 48      | rain          | 330   |                |            |               |            |           |
| 10                       | 50              | 47      | 48      | 48      | rain          | 331   | 549            | 10         | 23            | 13         |           |
| 11                       | 57              | 42      | 48      | 47      | sprinkles     | 786   |                |            |               |            |           |
| 12                       | 56              | 43      | 47      | 48      | rain          | 1160  |                |            |               |            |           |
| 13                       | 51              | 39      | 48      | 47      | rain-cloudy   | 1150  |                |            |               |            |           |
| 14                       | 50              | 42      | 48      | 47      | partly cloudy | 1070  | 417            | 7          | 165           | 35         |           |
| 15                       | 50              | 40      | 48      | 47      | fog-cloudy    | 1050  |                |            |               |            |           |
| 16                       | 48              | 40      | 48      | 48      | overcast      | 1040  |                |            |               |            |           |
| 17                       | 54              | 45      | 48      | 48      | overcast      | 1040  | 223            | 4          | 49            | 31         |           |
| 18                       | 50              | 33      | 48      | 47      | partly cloudy | 1050  |                |            |               |            |           |
| 19                       | 45              | 40      | 47      | 47      | rain          | 1140  |                |            |               |            |           |
| 20                       | 48              | 42      | 47      | 47      | cloudy        | 1130  |                |            |               |            |           |
| 21                       | 52              | 32      | 47      | 46      | fog-clear     | 1130  | 194            | 2          | 42            | 12         | 59        |
| 22                       | 40              | 34      | 47      | 47      | fog-snow      | 1130  |                |            |               |            |           |
| 23                       | 38              | 34      | 46      | 46      | snow          | 1130  |                |            |               |            |           |
| 24                       | 52              | 36      | 47      | 46      | rain-cloudy   | 1130  |                |            |               |            |           |
| 25                       | 52              | 32      | 47      | 46      | partly cloudy | 1130  | 63             | 1          | 36            | 10         | 15        |
| 26                       | 50              | 31      | 47      | 46      | partly cloudy | 1120  |                |            |               |            |           |
| 27                       | 48              | 32      | 47      | 46      | fog-clear     | 1120  |                |            |               |            |           |
| 28                       | 40              | 36      | 47      | 47      | fog           | 1120  | 16             |            | 31            | 7          | 10        |
| 29                       | 48              | 34      | 47      | 46      | partly cloudy | 1120  |                |            |               |            |           |
| 30                       | 53              | 35      | 47      | 47      | rain-cloudy   | 1120  |                |            |               |            |           |
| <b>TOTALS</b>            |                 |         |         |         |               |   | <b>2,960</b>   | <b>91</b>  | <b>426</b>    | <b>162</b> | <b>84</b> |
| <b>Cumulative Totals</b> |                 |         |         |         |               |   | <b>6,014</b>   | <b>903</b> | <b>457</b>    | <b>222</b> | <b>84</b> |

\*From USGS records.

APPENDIX TABLE 2. (Continued)

| December                 | Temperature° F |         |         |         | Weather       | Flow of<br>Trinity River<br>at Lewiston<br>(cfs)* | Fish trapped   |        |               |        |           |
|--------------------------|----------------|---------|---------|---------|---------------|---|----------------|--------|---------------|--------|-----------|
|                          | Air            |         | Water   |         |               |   | Chinook salmon |        | Silver salmon |        | Steelhead |
|                          | Maximum        | Minimum | Maximum | Minimum |               |   | Adults         | Grilse | Adults        | Grilse |           |
| 1                        | 50             | 44      | 48      | 47      | rain          | 1120  | 6              | 17     | 2             | 1      |           |
| 2                        | 54             | 40      | 48      | 47      | rain          | 1120  |                |        |               |        |           |
| 3                        | 46             | 36      | 48      | 47      | slush-cloudy  | 1120  |                |        |               |        |           |
| 4                        | 50             | 31      | 47      | 47      | partly cloudy | 1120  |                |        |               |        |           |
| 5                        | 36             | 34      | 46      | 47      | fog-snow      | 1120  |                | 3      | 1             | 19     |           |
| 6                        | 42             | 33      | 47      | 46      | rain          | 1130  |                |        |               |        |           |
| 7                        | 46             | 40      | 47      | 46      | rain          | 1130  |                |        |               |        |           |
| 8                        | 48             | 38      | 47      | 47      | overcast      | 1130  |                | 1      | 2             | 5      |           |
| 9                        | 52             | 44      | 47      | 47      | rain          | 1130  |                |        |               |        |           |
| 10                       | 52             | 44      | 48      | 47      | rain          | 1120  |                |        |               |        |           |
| 11                       | 48             | 44      | 48      | 48      | rain          | 1130  |                |        |               |        |           |
| 12                       | 47             | 34      | 47      | 47      | rain          | 1130  |                | 1      |               | 45     |           |
| 13                       | 42             | 33      | 47      | 46      | rain          | 1500  |                |        |               |        |           |
| 14                       | 64             | 38      | 48      | 47      | rain          | 2650  |                |        |               |        |           |
| 15                       | 63             | 44      | 49      | 48      | partly cloudy | 2660  |                |        |               | 30     |           |
| 16                       | 52             | 46      | 48      | 48      | rain          | 2650  |                |        |               |        |           |
| 17                       | 48             | 40      | 48      | 48      | cloudy        | 2650  |                |        |               |        |           |
| 18                       | 50             | 42      | 48      | 48      | cloudy        | 2640  |                |        |               |        |           |
| 19                       | 52             | 44      | 48      | 48      | partly cloudy | 2640  |                |        |               | 70     |           |
| 20                       | 46             | 30      | 47      | 47      | fog-cloudy    | 2640  |                |        |               |        |           |
| 21                       | 41             | 28      | 46      | 46      | partly cloudy | 2650  |                |        |               |        |           |
| 22                       | 40             | 24      | 46      | 46      | partly cloudy | 2650  |                |        |               | 3      |           |
| 23                       | 34             | 28      | 45      | 45      | snow          | 2660  |                |        |               |        |           |
| 24                       | 42             | 30      | 45      | 45      | rain          | 2650  |                |        |               |        |           |
| 25                       | 42             | 36      | 46      | 45      | rain          | 2660  |                |        |               |        |           |
| 26                       | 40             | 36      | 47      | 46      | rain          | 2660  |                |        |               |        |           |
| 27                       | 46             | 36      | 47      | 46      | partly cloudy | 3320  |                |        |               | 47     |           |
| 28                       | 42             | 30      | 47      | 46      | fog-rain      | 4290  |                |        |               |        |           |
| 29                       | 44             | 37      | 48      | 47      | fog           | 4200  |                |        |               | 77     |           |
| 30                       | 50             | 40      | 48      | 47      | rain-cloudy   | 4180  |                |        |               | 55     |           |
| 31                       | 52             | 40      | 48      | 47      | cloudy-clear  | 4160  |                |        |               |        |           |
| <b>TOTALS</b>            |                |         |         |         |               |   | 6              | 22     | 5             | 352    |           |
| <b>Cumulative Totals</b> |                |         |         |         |               |   | 6,020          | 903    | 479           | 227    | 436       |

\*From US records.

APPENDIX TABLE 2. (Continued)

| January           | Temperature° F |         |         |         | Weather       | Flow of<br>Trinity River<br>at Lewiston<br>(cfs)* | Fish trapped   |        |               |        |           |     |
|-------------------|----------------|---------|---------|---------|---------------|---|----------------|--------|---------------|--------|-----------|-----|
|                   | Air            |         | Water   |         |               |   | Chinook salmon |        | Silver salmon |        | Steelhead |     |
|                   | Maximum        | Minimum | Maximum | Minimum |               |   | Adults         | Grilse | Adults        | Grilse |           |     |
| 1                 | 48             | 36      | 48      | 47      | cloudy-clear  | 4220  |                |        |               |        |           |     |
| 2                 | 47             | 36      | 47      | 46      | partly cloudy | 4170  |                |        |               |        |           |     |
| 3                 | 54             | 36      | 47      | 46      | fog-clear     | 4170  |                |        |               |        | 78        |     |
| 4                 | 54             | 40      | 48      | 47      | fog-clear     | 4190  |                |        |               |        |           |     |
| 5                 | 50             | 40      | 47      | 47      | fog-clearing  | 4230  |                |        |               |        | 7         |     |
| 6                 | 52             | 38      | 47      | 47      | fog-clear     | 4550  |                |        |               |        |           |     |
| 7                 | 54             | 38      | 47      | 47      | fog-clear     | 4870  |                |        |               |        |           |     |
| 8                 | 54             | 40      | 47      | 47      | partly cloudy | 4850  |                |        |               |        |           |     |
| 9                 | 48             | 37      | 47      | 47      | partly cloudy | 5040  |                |        |               |        | 10        |     |
| 10                | 56             | 37      | 47      | 47      | fog-clearing  | 6290  |                |        |               |        |           |     |
| 11                | 46             | 35      | 47      | 46      | fog-clearing  | 6690  |                |        |               |        |           |     |
| 12                | 52             | 34      | 47      | 46      | fog-clear     | 6630  |                |        |               |        |           |     |
| 13                | 52             | 32      | 46      | 46      | fog-clear     | 6070  |                |        |               |        |           |     |
| 14                | 40             | 22      | 46      | 45      | fog-cloudy    | 4950  |                |        |               |        |           |     |
| 15                | 39             | 33      | 45      | 45      | snow-rain     | 3680  |                |        |               |        |           |     |
| 16                | 42             | 34      | 46      | 46      | cloudy        | 3260  |                |        |               |        |           |     |
| 17                | 48             | 33      | 47      | 46      | fog-clear     | 2750  |                |        |               |        | 4         |     |
| 18                | 44             | 30      | 46      | 46      | partly cloudy | 1850  |                |        |               |        |           |     |
| 19                | 48             | 32      | 46      | 46      | partly cloudy | 1220  |                |        |               |        |           |     |
| 20                | 43             | 29      | 46      | 46      | partly cloudy | 1180  |                |        |               |        |           |     |
| 21                | 46             | 32      | 46      | 46      | fog-cloudy    | 967   |                |        |               |        |           |     |
| 22                | 58             | 40      | 46      | 46      | partly cloudy | 965   |                |        |               |        |           |     |
| 23                | 53             | 37      | 47      | 46      | fog-clear     | 768   |                |        |               |        |           |     |
| 24                | 58             | 36      | 47      | 46      | fog-clear     | 450   |                |        |               |        |           |     |
| 25                | 62             | 40      | 47      | 46      | fog-clear     | 346   |                |        |               |        |           |     |
| 26                | 62             | 30      | 47      | 46      | fog-clear     | 340   |                |        |               |        |           |     |
| 27                | 60             | 30      | 47      | 46      | fog-clear     | 344   |                |        |               |        |           |     |
| 28                | 60             | 30      | 47      | 46      | fog-clear     | 344   |                |        |               |        |           |     |
| 29                | 55             | 32      | 47      | 45      | fog-cloudy    | 344   |                |        |               |        |           |     |
| 30                | 60             | 30      | 48      | 45      | fog-clear     | 344   |                |        |               |        | 6         |     |
| 31                | 62             | 32      | 49      | 44      | partly cloudy | 344   |                |        |               |        |           |     |
| <b>TOTALS</b>     |                |         |         |         |               |   |                |        |               |        |           | 105 |
| Cumulative Totals |                |         |         |         |               |   | 6,020          | 903    | 479           | 227    |           | 541 |

\*From USGS records.

APPENDIX TABLE 2. (Continued)

| February          | Temperature ° F |         | Flow of<br>Trinity River<br>at Lewiston<br>(cfs)* | Fish trapped               |           |     |     |     |
|-------------------|-----------------|---------|---|----------------------------|-----------|-----|-----|-----|
|                   | Air             |         |   | Chinook salmon             |           |     |     |     |
|                   | Maximum         | Minimum |   | Adults                     | Grilse    |     |     |     |
|                   |                 | Water   |   | Silver salmon              | Steelhead |     |     |     |
|                   |                 | Maximum | Weather   | Adults <td>Grilse </td>    | Grilse    |     |     |     |
|                   |                 | Minimum |   | Grilse <td>Steelhead </td> | Steelhead |     |     |     |
| 1                 | 64              | 35      | fog-clear   | 345                        |           |     |     |     |
| 2                 | 68              | 30      | fog-clear   | 345                        |           |     |     |     |
| 3                 | 64              | 27      | clear   | 345                        |           |     |     |     |
| 4                 | 71              | 29      | fog-clear   | 344                        |           |     |     |     |
| 5                 | 64              | 30      | partly cloudy                                     | 344                        |           |     |     |     |
| 6                 | 60              | 36      | fog-clear   | 347                        |           |     |     |     |
| 7                 | 56              | 36      | overcast  | 349                        |           |     |     |     |
| 8                 | 60              | 37      | rain-clear  | 349                        |           |     |     |     |
| 9                 | 49              | 52      | rain  | 349                        |           |     |     |     |
| 10                | 52              | 30      | partly cloudy                                     | 349                        |           |     |     |     |
| 11                | 50              | 30      | rain - snow                                       | 352                        |           |     |     |     |
| 12                | 42              | 36      | rain-overcast                                     | 354                        |           |     |     |     |
| 13                | 44              | 36      | rain-cloudy                                       | 355                        |           |     |     |     |
| 14                | 52              | 30      | fog-overcast                                      | 352                        |           |     |     |     |
| 15                | 40              | 34      | rain-snow   | 361                        |           |     |     |     |
| 16                | 50              | 34      | rain-clearing                                     | 359                        |           |     |     |     |
| 17                | 52              | 31      | cloudy-clear                                      | 359                        |           |     |     |     |
| 18                | 57              | 30      | partly cloudy                                     | 356                        |           |     |     |     |
| 19                | 59              | 40      | partly cloudy                                     | 354                        |           |     |     |     |
| 20                | 52              | 36      | rain-overcast                                     | 354                        |           |     |     |     |
| 21                | 50              | 34      | partly cloudy                                     | 354                        |           |     |     |     |
| 22                | 52              | 28      | partly cloudy                                     | 359                        |           |     |     |     |
| 23                | 48              | 34      | partly cloudy                                     | 356                        |           |     |     |     |
| 24                | 46              | 36      | rain-overcast                                     | 358                        |           |     |     |     |
| 25                | 58              | 31      | fog-clear   | 354                        |           |     |     |     |
| 26                | 62              | 38      | partly cloudy                                     | 354                        |           |     |     |     |
| 27                | 62              | 34      | fog-clear   | 359                        | 3         |     |     |     |
| 28                | 58              | 38      | partly cloudy                                     | 702                        |           |     |     |     |
| 29                | 58              | 34      | overcast  | 1130                       | 8         |     |     |     |
| TOTALS            |                 |         |   |                            | 11        |     |     |     |
| Cumulative Totals |                 |         |   | 6,020                      | 903       | 479 | 227 | 552 |

\*From USGS records.

APPENDIX TABLE 2. (Continued)

| March                    | Temperature ° F |         |         |         | Weather       | Flow of<br>Trinity River<br>at Lewiston<br>(cfs)* | Fish trapped   |            |               |            |            |
|--------------------------|-----------------|---------|---------|---------|---------------|---|----------------|------------|---------------|------------|------------|
|                          | Air             |         | Water   |         |               |   | Chinook salmon |            | Silver salmon |            | Steelhead  |
|                          | Maximum         | Minimum | Maximum | Minimum |               |   | Adults         | Grilse     | Adults        | Grilse     |            |
| 1                        | 64              | 40      | 48      | 46      | partly cloudy | 1130  |                |            |               | 8          |            |
| 2                        | 64              | 32      | 49      | 46      | fog-clear     | 814   |                |            |               |            |            |
| 3                        | 72              | 31      | 50      | 46      | fog-clear     | 334   |                |            |               |            |            |
| 4                        | 70              | 31      | 50      | 47      | fog-clear     | 330   |                |            |               |            |            |
| 5                        | 70              | 30      | 50      | 47      | clear         | 328   |                |            |               | 12         |            |
| 6                        | 71              | 30      | 50      | 47      | clear-hazy    | 329   |                |            |               | 2          |            |
| 7                        | 70              | 38      | 52      | 46      | fog-overcast  | 329   |                |            |               | 3          |            |
| 8                        | 66              | 36      | 52      | 48      | partly cloudy | 328   |                |            |               |            |            |
| 9                        | 68              | 37      | 51      | 48      | partly cloudy | 327   |                |            |               |            |            |
| 10                       | 64              | 40      | 51      | 48      | fog-clear     | 329   |                |            |               |            |            |
| 11                       | 59              | 40      | 51      | 49      | cloudy        | 328   |                |            |               |            |            |
| 12                       | 64              | 36      | 52      | 50      | clear         | 328   |                |            |               | 3          |            |
| 13                       | 58              | 47      | 52      | 51      | rain-sun      | 331   |                |            |               |            |            |
| 14                       | 56              | 43      | 52      | 51      | cloudy mist   | 331   |                |            |               | 4          |            |
| 15                       | 52              | 38      | 51      | 50      | cloudy-rain   | 333   |                |            |               | 1          |            |
| 16                       | 48              | 38      | 51      | 50      | cloudy-rain   | 334   |                |            |               |            |            |
| 17                       | 49              | 39      | 51      | 50      | partly cloudy | 333   |                |            |               |            |            |
| 18                       | 63              | 42      | 52      | 50      | partly cloudy | 330   |                |            |               |            |            |
| 19                       | 74              | 44      | 53      | 50      | fog-clear     | 331   |                |            |               | 4          |            |
| 20                       | 70              | 52      | 53      | 51      | overcast      | 333   |                |            |               |            |            |
| 21                       | 60              | 32      | 52      | 50      | clear         | 333   |                |            |               |            |            |
| 22                       | 68              | 36      | 53      | 51      | fog-clear     | 334   |                |            |               |            |            |
| 23                       | 71              | 42      | 53      | 51      | fog-clear     | 334   |                |            |               | 6          |            |
| 24                       | 70              | 45      | 54      | 51      | partly cloudy | 335   |                |            |               |            |            |
| 25                       | 69              | 30      | 53      | 51      | partly cloudy | 332   |                |            |               |            |            |
| 26                       | 63              | 49      | 53      | 51      | rain-clear    | 335   |                |            |               | 5          |            |
| 27                       | 70              | 36      | 53      | 51      | fog-clear     | 332   |                |            |               |            |            |
| 28                       | 68              | 39      | 52      | 50      | clear-windy   | 330   |                |            |               |            |            |
| 29                       | 60              | 31      | 52      | 50      | clear-windy   | 332   |                |            |               | 1          |            |
| 30                       | 66              | 29      | 52      | 50      | clear-windy   | 331   |                |            |               |            |            |
| 31                       | 68              | 46      | 52      | 49      | clear-rain    | 332   |                |            |               |            |            |
| <b>TOTALS</b>            |                 |         |         |         |               |   |                |            |               | <b>49</b>  |            |
| <b>Cumulative Totals</b> |                 |         |         |         |               |   | <b>6,020</b>   | <b>903</b> | <b>479</b>    | <b>227</b> | <b>601</b> |

\*From USGS records.

APPENDIX TABLE 2. (Continued)

| April                    | Temperature ° F |         |         |         | Weather       | Flow of<br>Trinity River<br>at Lewiston<br>(cfs)* | Fish trapped   |            |               |            |            |
|--------------------------|-----------------|---------|---------|---------|---------------|---|----------------|------------|---------------|------------|------------|
|                          | Air             |         | Water   |         |               |   | Chinook salmon |            | Silver salmon |            | Steelhead  |
|                          | Maximum         | Minimum | Maximum | Minimum |               |   | Adults         | Grilse     | Adults        | Grilse     |            |
| 1                        | 60              | 49      | 51      | 49      | partly cloudy | 329   |                |            |               |            |            |
| 2                        | 65              | 34      | 50      | 49      | fog-clear     | 330   |                |            |               |            |            |
| 3                        | 60              | 38      | 50      | 49      | fog-rain      | 332   |                |            |               |            |            |
| 4                        | 57              | 45      | 49      | 49      | rain          | 334   |                |            |               |            |            |
| 5                        | 59              | 46      | 49      | 49      | showers       | 330   |                |            |               |            |            |
| 6                        | 66              | 33      | 51      | 48      | fog-clear     | 329   |                |            |               |            |            |
| 7                        | 64              | 43      | 50      | 49      | partly cloudy | 330   |                |            |               |            |            |
| 8                        | 51              | 46      | 50      | 49      | partly cloudy | 332   |                |            |               |            |            |
| 9                        | 36              | 30      | 48      | 49      | fog-snow-rain | 328   |                |            |               |            | 2          |
| 10                       | 50              | 32      | 49      | 48      | rain-cloudy   | 328   |                |            |               |            |            |
| 11                       | 62              | 32      | 49      | 48      | overcast      | 325   |                |            |               |            |            |
| 12                       | 67              | 48      | 50      | 48      | clearing      | 325   |                |            |               |            |            |
| 13                       | 80              | 35      | 51      | 49      | clear         | 325   |                |            |               |            |            |
| 14                       | 80              | 54      | 51      | 50      | clear         | 322   |                |            |               |            |            |
| 15                       | 73              | 42      | 52      | 51      | partly clear  | 320   |                |            |               |            |            |
| 16                       | 72              | 44      | 52      | 51      | partly clear  | 320   |                |            |               |            |            |
| 17                       | 66              | 43      | 52      | 51      | clearing      | 321   |                |            |               |            |            |
| 18                       | 50              | 40      | 53      | 52      | rain          | 322   |                |            |               |            |            |
| 19                       | 54              | 37      | 52      | 52      | partly clear  | 319   |                |            |               |            |            |
| 20                       | 66              | 32      | 54      | 51      | fog-clear     | 319   |                |            |               |            |            |
| 21                       | 74              | 46      | 53      | 53      | clear         | 320   |                |            |               |            |            |
| 22                       | 81              | 51      | 54      | 52      | clear         | 318   |                |            |               |            |            |
| 23                       | 76              | 28      | 55      | 54      | clear         | 314   |                |            |               |            |            |
| 24                       | 60              | 40      | 56      | 53      | clear         | 312   |                |            |               |            |            |
| 25                       | 50              | 30      | 55      | 55      | wind-snow     | 312   |                |            |               |            |            |
| 26                       | 58              | 30      | 54      | 53      | partly cloudy | 312   |                |            |               |            |            |
| 27                       | 65              | 30      | 55      | 54      | partly cloudy | 308   |                |            |               |            |            |
| 28                       | 70              | 48      | 54      | 53      | clear         | 309   |                |            |               |            |            |
| 29                       | 67              | 48      | 54      | 52      | partly cloudy | 306   |                |            |               |            |            |
| 30                       | 60              | 46      | 54      | 54      | rain          | 308   |                |            |               |            |            |
| <b>TOTALS</b>            |                 |         |         |         |               |   |                |            |               |            | <b>2</b>   |
| <b>Cumulative Totals</b> |                 |         |         |         |               |   | <b>6,020</b>   | <b>903</b> | <b>479</b>    | <b>227</b> | <b>603</b> |

\*From USGS records.

APPENDIX TABLE 2. (Continued)

| May | Temperature ° F |         |         |         | Weather       | Flow of<br>Trinity River<br>at Lewiston<br>(cfs)* | Fish trapped   |        |               |        |           |
|-----|-----------------|---------|---------|---------|---------------|---|----------------|--------|---------------|--------|-----------|
|     | Air             |         | Water   |         |               |   | Chinook salmon |        | Silver salmon |        | Steelhead |
|     | Maximum         | Minimum | Maximum | Minimum |               |   | Adults         | Grilse | Adults        | Grilse |           |
| 1   | 52              | 47      | 54      | 54      | rain          | 307   |                |        |               |        |           |
| 2   | 64              | 42      | 54      | 53      | partly cloudy | 208   |                |        |               |        |           |
| 3   | 72              | 47      | 55      | 54      | clear         | 200   |                |        |               |        |           |
| 4   | 64              | 47      | 54      | 54      | clear         | 307   |                |        |               |        |           |
| 5   | 65              | 43      | 55      | 54      | clear         | 306   |                |        |               |        |           |
| 6   | 64              | 44      | 55      | 55      | clear         | 301   |                |        |               |        |           |
| 7   | 84              | 34      | 56      | 54      | clear         | 301   |                |        |               |        |           |
| 8   | 83              | 44      | 56      | 55      | clear         | 301   |                |        |               |        |           |
| 9   | 85              | 44      | 56      | 55      | partly cloudy | 300   |                |        |               |        |           |
| 10  | 86              | 44      | 56      | 55      | clear-rain    | 301   |                |        |               |        |           |
| 11  | 68              | 56      | 57      | 54      | lite rain     | 300   |                |        |               |        |           |
| 12  | 82              | 57      | 56      | 54      | partly cloudy | 301   |                |        |               |        |           |
| 13  | 80              | 57      | 57      | 54      | clear         | 301   |                |        |               |        |           |
| 14  | 64              | 50      | 55      | 54      | partly cloudy | 301   |                |        |               |        |           |
| 15  | 66              | 34      | 55      | 53      | partly cloudy | 299   |                |        |               |        |           |
| 16  | 74              | 36      | 56      | 53      | cloudy        | 298   |                |        |               |        |           |
| 17  | 76              | 50      | 56      | 54      | clear         | 299   |                |        |               |        |           |
| 18  | 83              | 42      | 55      | 55      | clear         | 299   |                |        |               |        |           |
| 19  | 87              | 46      | 57      | 55      | clear         | 299   |                |        |               |        |           |
| 20  | 78              | 53      | 58      | 54      | partly cloudy | 299   |                |        |               |        |           |
| 21  | 78              | 42      | 59      | 55      | clear         | 299   |                |        |               |        |           |
| 22  | 86              | 42      | 56      | 55      | clear         | 299   |                |        |               |        |           |
| 23  | 76              | 54      | 55      | 55      | clear         | 301   |                |        |               |        |           |
| 24  | 75              | 42      | 57      | 55      | clear         | 300   |                |        |               |        |           |
| 25  | 80              | 42      | 58      | 57      | clear         | 301   |                |        |               |        |           |
| 26  | 82              | 54      | 59      | 57      | clear         | 301   |                |        |               |        |           |
| 27  | 96              | 43      | 61      | 58      | clear         | 301   |                |        |               |        |           |
| 28  | 100             | 49      | 61      | 58      | clear         | 301   |                |        |               |        |           |
| 29  | 93              | 54      | 62      | 60      | clear         | 302   |                |        |               |        |           |
| 30  | 88              | 54      | 61      | 60      | clear         | 305   |                |        |               |        |           |
| 31  | 80              | 44      | 61      | 59      | clear         | 303   |                |        |               |        |           |

\*From USGS records.

APPENDIX TABLE 2. (Continued)

| June | Temperature <sup>o</sup> F |         |         |         | Weather       | Flow of<br>Trinity River<br>at Lewiston<br>(cfs)* | Fish trapped   |               |           |
|------|----------------------------|---------|---------|---------|---------------|---|----------------|---------------|-----------|
|      | Air                        |         | Water   |         |               |   | Chinook salmon | Silver salmon | Steelhead |
|      | Maximum                    | Minimum | Maximum | Minimum |               |   | Adults         | Grilse        |           |
| 1    | 86                         | 40      | 61      | 58      | clear         | 332   |                |               |           |
| 2    | 82                         | 51      | 60      | 59      | clear         | 343   |                |               |           |
| 3    | 83                         | 43      | 57      | 57      | clear-cloudy  | 338   |                |               |           |
| 4    | 68                         | 50      | 54      | 54      | partly cloudy | 337   |                |               |           |
| 5    | 71                         | 42      | 55      | 54      | partly cloudy | 337   |                |               |           |
| 6    | 60                         | 44      | 54      | 55      | rain          | 339   |                |               |           |
| 7    | 70                         | 40      | 54      | 52      | partly cloudy | 336   |                |               |           |
| 8    | 76                         | 40      | 54      | 53      | clear         | 335   |                |               |           |
| 9    | 70                         | 53      | 55      | 53      | clear         | 337   |                |               |           |
| 10   | 76                         | 36      | 55      | 54      | clear         | 332   |                |               |           |
| 11   | 77                         | 48      | 55      | 54      | partly cloudy | 328   |                |               |           |
| 12   | 84                         | 48      | 56      | 54      | clear         | 328   |                |               |           |
| 13   | 86                         | 47      | 55      | 54      | partly cloudy | 326   |                |               |           |
| 14   | 86                         | 48      | 55      | 54      | clear         | 326   |                |               |           |
| 15   | 90                         | 50      | 56      | 53      | clear         | 327   |                |               |           |
| 16   | 92                         | 52      | 57      | 55      | clear         | 330   |                |               |           |
| 17   | 94                         | 48      | 56      | 54      | clear         | 331   |                |               |           |
| 18   | 90                         | 50      | 57      | 55      | clear         | 329   |                |               |           |
| 19   | 88                         | 52      | 57      | 54      | clear         | 329   |                |               |           |
| 20   | 70                         | 52      | 56      | 54      | clear         | 331   |                |               |           |
| 21   | 80                         | 40      | 56      | 55      | clear         | 333   |                |               |           |
| 22   | 90                         | 46      | 56      | 54      | clear         | 336   |                |               |           |
| 23   | 94                         | 48      | 57      | 55      | clear         | 338   |                |               |           |
| 24   | 95                         | 55      | 57      | 56      | clear         | 338   |                |               |           |
| 25   | 93                         | 53      | 58      | 56      | clear         | 337   |                |               |           |
| 26   | 90                         | 58      | 59      | 56      | clear         | 336   |                |               |           |
| 27   | 97                         | 58      | 59      | 56      | clear         | 333   |                |               |           |
| 28   | 93                         | 57      | 58      | 57      | clear         | 338   |                |               |           |
| 29   | 84                         | 56      | 55      | 53      | clear         | 340   |                |               |           |
| 30   | 92                         | 48      | 57      | 54      | clear         | 353   |                |               |           |

\*From USGS records.