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TEMPERATURES IN THE NADINA RIVER  
AND SLIM CREEK WATERSHEDS, 1993-1996

by

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## ABSTRACT

Andersen, B. C., J. S. Macdonald, and L. B. MacDonald. 1997. Temperatures in the Nadina River and Slim Creek watersheds, 1993-1996. Can. Data Rep. Fish. Aquat. Sci. 1017: 102 p.

This report presents stream and air temperature data collected as part of studies that focus on the effects of forest practices on interior fish stocks and the habitat they occupy.

Data from Gates Creek in the Nadina River watershed covers the time periods August-September, 1993, June-September, 1994, June-September, 1995, and October, 1995-July, 1996. Slim Creek watershed data is from June to September, 1994.

## RÉSUMÉ

Andersen, B. C., J. S. Macdonald, and L. B. MacDonald. 1997. Temperatures in the Nadina River and Slim Creek watersheds, 1993-1996. Can. Data Rep. Fish. Aquat. Sci. 1017: 102 p.

Ce rapport présente des données de température de l'air et du courant d'eau, recueillies dans le cadre d'études concernant les effets des pratiques forestières sur les stocks de poisson de l'intérieur et sur leurs habitats.

Les données du ruisseau Gates dans le bassin de la Nadina couvrent les périodes suivantes: aout-septembre, 1993, juin-septembre, 1994, juin-septembre, 1995, et octobre, 1995-juillet, 1996. Celles du ruisseau Slim vont de juin à septembre, 1994.

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## INTRODUCTION

In 1990, the Biological Sciences Branch of the Department of Fisheries and Oceans (Pacific Region) shifted most of its research on the effects of forest harvesting practices on fish stocks and fish habitat from the coast to the interior of British Columbia. Two decades after logging began in April, 1990, research resumed in the upper Slim Creek watershed (Choromanski et al. 1993). In August, 1990, a major long-term fish/forestry research project was initiated on four tributaries of the Stuart/Takla watershed (Macdonald et al. 1992). Nadina River watershed stream temperature studies were started in July, 1993.

This report presents the stream temperature, air temperature, and solar radiation data from the Nadina River watershed for the summers of 1993, 1994, and 1995; and stream temperature data from the upper Slim Creek watershed for the summer of 1994. An appendix reports stream temperatures from some of the Nadina River watershed stations for the period October 1995 to July 1996. Additional temperature data from the Slim Creek area from 1990 to 1993 can be accessed in Choromanski et al. (1993).

The data in this report has been used to assist with Local Resource Use Planning (LRUP) in the interior of B.C. and will be further analyzed and used in future publications.

## STUDY AREAS

The Slim Creek watershed, located 80 km east of Prince George B.C., is approximately 560 sq km. This study was conducted on the upper portion of the watershed where Centennial and Donna creeks enter Slim Creek. Detailed information on the watershed and logging history is available in other reports (Slaney et al. 1977; Brownlee et al. 1988; Choromanski et al. 1993).

The Nadina River, located approximately 40 km south of Houston, B.C., discharges into the west end of Francois Lake. Gates Creek enters the south side of the Nadina River 11 km. from the mouth (Fig. 1). Peter Alec Creek (not shown in Fig. 1) discharges into the east end of Owen Lake in the Skeena River watershed. This creek originally entered the north side of the Nadina River near Gates Creek and was diverted in the late 1950's.

## METHODS

In 1993 and 1994, all temperatures were recorded with Unidata's Starlog data logging system. The loggers used were model 6003B with 64K memory capacity, attached thermistors were model 6507A with 15k ohm resistors and accuracy of  $\pm 0.2^\circ\text{C}$ . The thermistor wires were connected to the loggers via a field termination strip, model 6103-1. Loggers and termination strips were installed in weatherproof enclosures, model 6701B, and then mounted on trees at each recording site. At one site (Gates Creek stn. BBB) air temperature and solar radiation was recorded using a stand alone weather instrument, model 6507D. All wires were armoured and at some locations buried to protect them from being severed by local wildlife.

In 1995, additional sites were added to the study. At these sites Vemco's model Minilog-TR data loggers, with accuracy of  $\pm 0.2^{\circ}\text{C}$  and range of  $-4^{\circ}\text{C}$  to  $20^{\circ}\text{C}$ , were used.

The Unidata data loggers on Gates Creek recorded the average reading for every 15-minute period in 1993 and for every 30-minute period in 1994 and 1995. At the Nadina River, Peter Alec Creek, and Slim Creek watershed stations all data was recorded every 60 minutes. The Vemco data loggers recorded data every 60 minutes.

All data was downloaded to a laptop computer using the loggers' software packages, edited in Microrim's R:Base software, and exported as daily maximums, minimums, and averages to be stored as ASCII files. Final tables were produced using Borland's Quattro Pro 4 software.

Co-ordinates (latitude/longitude) of the sites were obtained from the Global Positioning System using Garmin's model 75 receiver with an accuracy of + or - 15 meters.

Temperature recording sites in the Slim Creek watershed (Choromanski et al. 1993) were chosen as part of a study on stream temperature preferences of juvenile chinook salmon (Oncorhyncus tshawytscha).

Recording locations on Gates Creek were chosen to satisfy two experimental design criteria: a) a paired comparison of stream temperatures between a system logged with leave strips, Gates West, and a system logged without leave strips, Gates East, (CCC; Fig. 1), and b) a comparison of stream temperatures above and below individual logged cut blocks in each of the stream pairs (Fig. 1).

In 1993 ,Gates Creek stations AAA-JJJ (Fig. 1) were installed. In 1994, stations on the Nadina River (NAD3, Fig. 1) and Peter Alec Creek were added.

In 1995, a decision to focus on smaller reaches of the streams resulted in 5 recording stations in the Nadina area not being used (GGG, HHH, III, NAD3, PETER ALEC) and 9 stations being added (KKK to QQQ, NAD1, NAD2).

The 1995 stations (NAD1, NAD2) on the Nadina River, above and below the Gates Creek confluence, were installed to measure the potential summer cooling influence of tributaries, such as Gates Creek, on the Nadina River.

In October 1995 9 stations (CCC east, CCC west, AAA, DDD, EEE, FFF, MMM, NAD1, and NAD2) were left in place to record stream temperatures through the cold weather months.

#### DETAILED DESCRIPTION OF DATA LOGGER STATION LOCATIONS

##### GATES CREEK

###### **stn AAA** (lat. N. $54^{\circ} 00' 16.0''$ , long. W. $126^{\circ} 39' 29.1''$ )

On the east side of Lower Gates Creek about 1.3 km upstream of junction with the Nadina River. In 1995 the channel had changed during the winter and the logger had to be moved upstream 80 metres. Access was from the Francois main road, approximately 1 km from Nadina bridge.

###### **stn BBB** (lat. N. $53^{\circ} 57' 34.0''$ , long. W. $126^{\circ} 38' 31.3''$ )

On a branch of East Gates Creek that flows along the western edge of a cutblock harvested in 1979 (Fig. 1). The logger site was 50 m downstream of a culvert on main Gates road (approximately 2 km west of the upper and main Gates road junction). This site included a meteorological instrument cluster (air temperature, solar radiation) located in the clearcut, 20 m from the stream edge.

###### **stn CCC** (east and west) (lat. N. $53^{\circ} 58' 44.5''$ , long. W. $126^{\circ} 39' 19.4''$ )

On Lower Gates Creek, 50 m upstream of the bridge on the Morice-Nadina mainline road. Logger site was at the junction of East and West Gates creeks (Fig. 1), thermistors were placed in each creek and data recorded on one data logger.

###### **stn DDD** (lat. N. $53^{\circ} 55' 30.5''$ , long. W. $126^{\circ} 36' 16.6''$ )

On a branch of East Gates Creek, in the upper portion of the watershed, that flows in the unlogged area between a block harvested in 1988 and one harvested in 1992 (Fig. 1). The logger site was located 30 m upstream of a culvert on upper Gates road (east).

###### **stn EEE** (lat. N. $53^{\circ} 55' 50.0''$ , long. W. $126^{\circ} 37' 11.3''$ )

On a branch of East Gates Creek that flows along the western edge of a 1988 cut block (Fig. 1). The logger site was located where the creek exits the timber, 325 m upstream of a culvert on upper Gates road (east).

###### **stn FFF** (lat. N. $53^{\circ} 56' 06.5''$ , long. W. $126^{\circ} 37' 12.0''$ )

On a branch of East Gates Creek that flows along the western edge of a 1988 cutblock (Fig. 1). The logger is located where the creek exits the clearcut, 535 m downstream of station EEE.

###### **stn GGG** (east and west) (lat. N. $53^{\circ} 56' 53.8''$ , long. W. $126^{\circ} 36' 50.5''$ )

On a branch of East Gates Creek that flows along the eastern edge of a 1979 cut block. The logger site was accessed from upper Gates road approximately 1 km from the junction with main Gates road. Logger site was at the junction of two branches of East Gates Creek (Fig. 1), thermistors were placed in each branch and data recorded on one data logger.

**stn HHH (east + west)** (lat. N. 53° 57' 28.8", long. W. 126° 36' 33.0")

On East Gates Creek, 50 m upstream of a bridge on main Gates road. The bridge is approximately 400 m east of the main and upper Gates road junction. Logger site was at the junction of two branches of East Gates Creek (Fig. 1), thermistors were placed in each branch and data recorded on one data logger.

**stn III**

On a branch of East Gates Creek that flows along the western edge of a block harvested in 1965 (Fig. 1). The logger was accessed from station GGG (a 15-minute walk east on a flagged route).

**stn JJJ** (lat. N. 53° 58' 27.5", long. W. 126° 38' 57.5")

On a branch of East Gates Creek that flows along the western side of a block harvested in 1981 (Fig. 1). The logger site was accessed from the end of a spur road that heads north from main Gates road at station BBB. The site was located near the north-west corner of the cutblock, 150 m upstream of the confluence with East Gates Creek.

**stn KKK** (lat. N. 54° 00' 46.0", long. W. 126° 39' 3.1")

On the west bank of main Gates Creek 54 m. upstream of confluence with the Nadina River. This site was accessed from the Nadina bridge on the Francois main road (Fig. 1) and is 1330 m downstream of station AAA. The area between stations KKK and AAA has been partially cleared to create moose habitat.

**stn LLL**

On a branch of East Gates Creek that flows along the western edge of a 1988 cutblock (Fig. 1). The station was located 535 m downstream of station FFF.

**stn MMM** (lat. N. 53° 55' 31.1", long. W. 126° 36' 18.0")

On a branch of East Gates Creek, in the upper portion of the watershed, that flows in the unlogged area between a block harvested in 1988 and one harvested in 1992 (Fig. 1). This station was located 527 m downstream of station DDD.

**stn NNN** (lat. N. 53° 58' 29.1", long. W. 126° 38' 54.7")

On East Gates Creek, 720 m upstream of station CCC (Fig. 1). This site was 26 m upstream of the point where tributary BBB-JJJ enters East Gates Creek.

**stn OOO** (lat. N. 53° 58' 19.0", long. W. 126° 38' 30.4")

On East Gates Creek, 1350 m upstream of station CCC (Fig. 1). This site was 650 m upstream of the point where tributary BBB-JJJ enters east Gates Creek.

**stn PPP**

On West Gates Creek, 720 m upstream of station CCC (Fig. 1).

**stn QQQ** (lat. N. 53° 58' 27.8", long. W. 126° 38' 59.5")

On East Gates Creek, 678 m upstream of station CCC (Fig. 1). This site was 16 m downstream of the point where tributary BBB-JJJ enters East Gates Creek.

## NADINA RIVER

**stn NAD1** (lat. N. 54° 00' 46.5", long. W. 126° 39' 3.6")

On the south side of the Nadina River, 125 m upstream of the Nadina bridge on the Francois main road (Fig. 1).

**stn NAD2** (lat. N. 54° 00' 48.2", long. W. 126° 38' 52.7")

On the south side of the Nadina River, 75 m downstream of the Nadina bridge on the Francois main road (Fig. 1).

**stn NAD3** (lat. N. 54° 01' 11.3", long. W. 126° 40' 31.1")

On the north side of the Nadina River 50 m. upstream of "Holland Flats." The logger site (Fig. 1) was accessed from "old Nadina road" (not shown on Fig. 1) approximately 1 km west of its junction with Owen East road.

## PETER ALEC CREEK

**Stn PETER ALEC** (lat. N. 54° 02' 57.4", long. W. 126° 43' 15.9")

On the east side of Peter Alec Creek (not shown on Fig. 1) about 1 km from Owen Lake. The logger site was accessed from a point on the Morice-Tahtsa road, approximately 500 m from the junction with the Morice-Owen road.

## SLIM CREEK WATERSHED

**Centennial-Slim Creek stn.** (lat. N. 53° 40' 31.9", long. W. 121° 29' 53.4")

At the junction of Slim Creek and Centennial Creek. Temperatures in both creeks were recorded from above the junction. The site was 60 m upstream of the Elk Pass road bridge over Slim Creek.

**Donna Creek stn.** (lat. N. 53° 40' 27.3", long. W. 121° 29' 26.5")

On the north side of Donna Creek about 500 m upstream of its junction with Slim Creek. The site was 80 m upstream of the Donna Creek road bridge.

**Slim Creek stn. (downstream of Donna Creek)** (lat. N. 53° 40' 42.2", long. W. 121° 29' 49.2")

On the east side of Slim Creek about 200 m downstream of its junction with Donna Creek. The site was 300 m downstream of the Elk Pass road bridge over Slim Creek, on a trail running along the east side of Slim Creek.

## RESULTS

All results are contained in the tables. Data was edited for data gaps. Daily maximums, minimums, averages, and ranges were calculated. Summaries for each recording station were produced.

At 3 stations heavy timber precluded capturing good signals from the satellites, therefore no latitudes/longitudes are given for stations III, LLL, and PPP.

Occasionally, equipment failure resulted in lost temperature data. In some situations these data could be estimated from regression relationship with nearby data logging stations. Data estimated in this manner are indicated with footnotes in the appropriate table.

Station JJJ data logger failed in 1993. There were periods in 1995 when tributary BBB-JJJ was dry at station JJJ.

## ACKNOWLEDGMENTS

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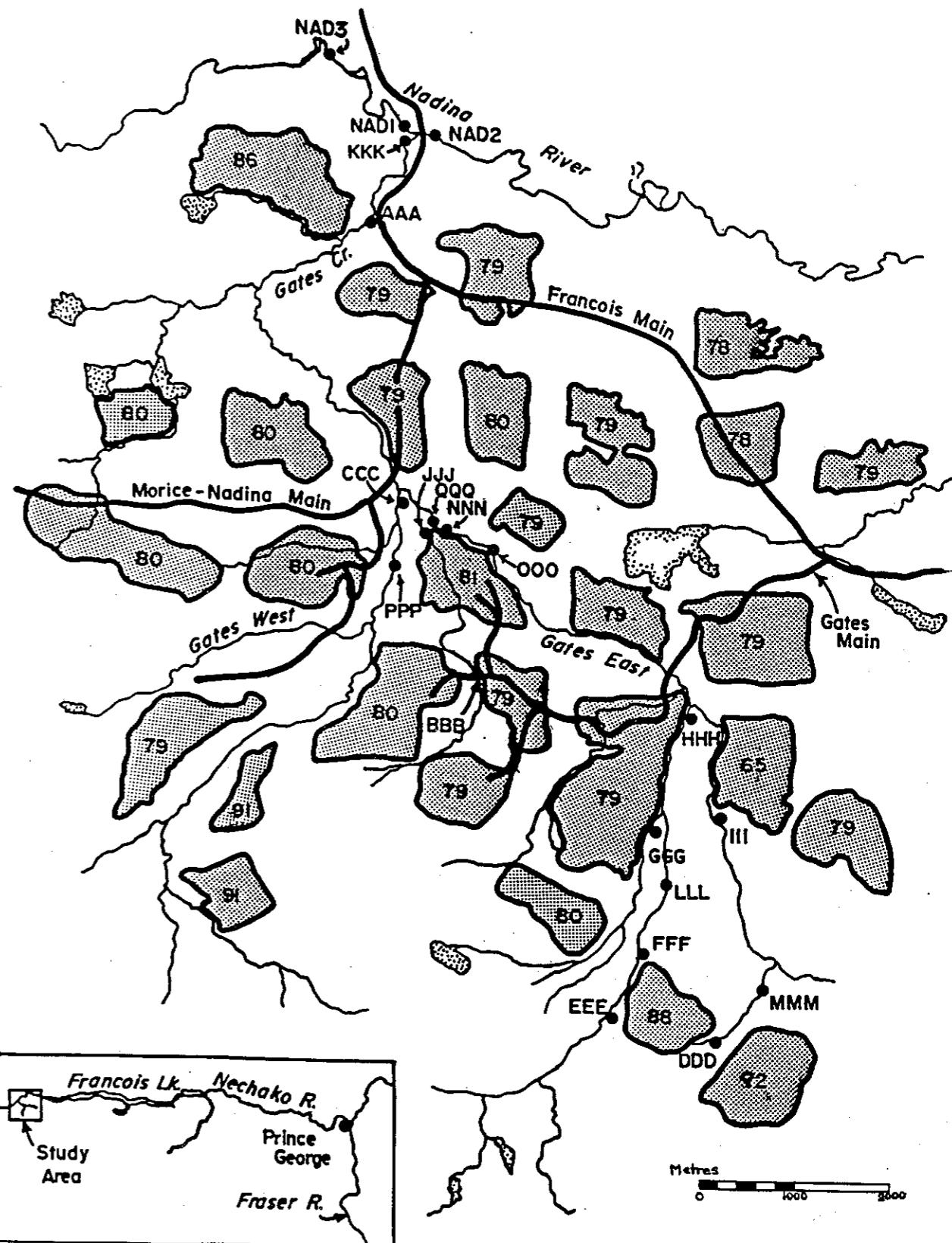


Figure 1. Gates Creek watershed study area, tributaries, data logger stations, and cut blocks. The number in the cut block is the year in which the block was logged. Road access to the upper parts of Gates Creek are not shown.

## METEOROLOGICAL DATA GATES CREEK (station BBB) in 1993

| DATE     | AIR TEMPERATURE (°C) |         |         |       | RADIATION (watts/sq.m.) |         |
|----------|----------------------|---------|---------|-------|-------------------------|---------|
|          | MAXIMUM              | MINIMUM | AVERAGE | RANGE | MAXIMUM                 | AVERAGE |
| 07/30/93 | 12.0                 |         |         |       |                         |         |
| 07/31/93 | 19.6                 | 2.1     | 10.89   | 17.5  | 782                     | 164     |
| 08/01/93 | 22.1                 | 5.6     | 13.22   | 16.5  | 835                     | 155     |
| 08/02/93 | 24.9                 | 2.9     | 13.59   | 22.0  | 741                     | 238     |
| 08/03/93 | 27.6                 | 3.7     | 15.15   | 23.9  | 759                     | 224     |
| 08/04/93 | 28.4                 | 4.8     | 16.18   | 23.6  | 729                     | 231     |
| 08/05/93 | 29.3                 | 5.6     | 17.10   | 23.7  | 724                     | 230     |
| 08/06/93 | 22.1                 | 4.3     | 12.64   | 17.8  | 741                     | 149     |
| 08/07/93 | 24.3                 | 2.1     | 13.21   | 22.2  | 735                     | 159     |
| 08/08/93 | 14.2                 | 5.9     | 9.84    | 8.3   | 394                     | 66      |
| 08/09/93 | 16.6                 | 1.8     | 8.91    | 14.8  | 712                     | 117     |
| 08/10/93 | 19.1                 | -1.8    | 8.14    | 20.9  | 741                     | 211     |
| 08/11/93 | 21.8                 | -0.7    | 10.36   | 22.5  | 906                     | 180     |
| 08/12/93 | 20.2                 | 4.5     | 10.66   | 15.7  | 688                     | 138     |
| 08/13/93 | 16.9                 | 2.9     | 9.06    | 14.0  | 565                     | 128     |
| 08/14/93 | 22.7                 | 1.5     | 11.53   | 21.2  | 729                     | 222     |
| 08/15/93 | 25.1                 | -0.1    | 12.20   | 25.2  | 706                     | 220     |
| 08/16/93 | 26.8                 | 2.9     | 14.21   | 23.9  | 747                     | 224     |
| 08/17/93 | 25.1                 | 4.3     | 13.86   | 20.8  | 724                     | 215     |
| 08/18/93 | 22.9                 | 2.1     | 11.83   | 20.8  | 624                     | 165     |
| 08/19/93 | 25.1                 | 2.1     | 12.71   | 23.0  | 682                     | 176     |
| 08/20/93 | 24.9                 | 3.2     | 13.32   | 21.7  | 624                     | 179     |
| 08/21/93 | 22.7                 | 4.8     | 12.74   | 17.9  | 771                     | 195     |
| 08/22/93 | 12.8                 | 3.2     | 8.48    | 9.6   | 306                     | 59      |
| 08/23/93 | 10.9                 | 3.7     | 6.90    | 7.2   | 324                     | 84      |
| 08/24/93 | 9.5                  | 3.5     | 6.25    | 6.0   | 188                     | 54      |
| 08/25/93 | 15.0                 | 1.5     | 7.57    | 13.5  | 488                     | 91      |
| 08/26/93 | 12.0                 | 1.0     | 5.67    | 11.0  | 329                     | 71      |
| 08/27/93 | 18.0                 | 0.2     | 6.67    | 17.8  | 747                     | 133     |
| 08/28/93 | 16.9                 | -2.6    | 6.62    | 19.5  | 624                     | 152     |
| 08/29/93 | 21.0                 | -2.6    | 7.83    | 23.6  | 653                     | 200     |
| 08/30/93 | 23.5                 | -1.5    | 10.44   | 25.0  | 659                     | 189     |
| 08/31/93 | 23.2                 | 4.0     | 12.68   | 19.2  | 635                     | 166     |
| 09/01/93 | 25.7                 | 2.1     | 12.58   | 23.6  | 647                     | 194     |
| 09/02/93 | 27.6                 | 1.8     | 13.75   | 25.8  | 665                     | 196     |
| 09/03/93 | 25.7                 | 1.0     | 11.80   | 24.7  | 647                     | 192     |
| 09/04/93 | 22.9                 | 0.7     | 10.48   | 22.2  | 641                     | 188     |
| 09/05/93 | 24.9                 | -0.7    | 10.46   | 25.6  | 629                     | 183     |
| 09/06/93 | 26.0                 | 0.2     | 11.13   | 25.8  | 635                     | 163     |
| 09/07/93 | 29.5                 | 1.3     | 12.46   | 28.2  | 635                     | 175     |
| 09/08/93 | 23.8                 | 1.3     | 10.61   | 22.5  | 635                     | 181     |

## METEOROLOGICAL DATA GATES CREEK (station BBB) in 1993

| DATE     | AIR TEMPERATURE (°C) |          |           |          | RADIATION (watts/sq.m.) |          |
|----------|----------------------|----------|-----------|----------|-------------------------|----------|
|          | MAXIMUM              | MINIMUM  | AVERAGE   | RANGE    | MAXIMUM                 | AVERAGE  |
| 09/09/93 | 24.0                 | -2.0     | 10.00     | 26.0     | 624                     | 170      |
| 09/10/93 | 23.8                 | 2.1      | 10.39     | 21.7     | 629                     | 116      |
| 09/11/93 | 15.3                 | -2.0     | 5.38      | 17.3     | 594                     | 110      |
| 09/12/93 | 19.9                 | -4.5     | 6.26      | 24.4     | 594                     | 164      |
| 09/13/93 | 18.8                 | -2.0     | 8.18      | 20.8     | 653                     | 110      |
| 09/14/93 | 16.1                 | -2.0     | 6.21      | 18.1     | 659                     | 115      |
| 09/15/93 | 18.3                 | -3.7     | 4.69      | 22.0     | 594                     | 145      |
| 09/16/93 | 20.5                 | -4.5     | 5.50      | 25.0     | 576                     | 158      |
| 09/17/93 | 21.3                 | -3.1     | 6.49      | 24.4     | 576                     | 156      |
| 09/18/93 | 13.3                 | -6.2     | 3.05      | 19.5     | 588                     | 159      |
| 09/19/93 | 12.0                 | -7.3     | 0.49      | 19.3     | 588                     | 152      |
| 09/20/93 | 15.3                 | -9.5     | 0.30      | 24.8     | 553                     | 146      |
| 09/21/93 | 16.4                 | -7.3     | 2.32      | 23.7     | 559                     | 133      |
| 09/22/93 | 16.6                 | -4.5     | 5.07      | 21.1     | 529                     | 134      |
| 09/23/93 | 17.2                 | 3.5      | 7.91      | 13.7     | 547                     | 70       |
| 09/24/93 | 10.9                 | -0.9     | 4.92      | 11.8     | 165                     | 40       |
| 09/25/93 | 12.8                 | -3.4     | 4.62      | 16.2     | 359                     | 71       |
| 09/26/93 | 18.0                 | -2.3     | 7.57      | 20.3     | 582                     | 69       |
| 09/27/93 | 17.2                 | -4.2     | 3.45      | 21.4     | 524                     | 130      |
| 09/28/93 | 19.1                 | -4.8     |           | 23.9     | 518                     |          |
| COUNT    | 61                   | 60       | 59        | 60       | 60                      | 59       |
| MAX      | 29.5                 | 5.9      | 17.097    | 28.2     | 906                     | 238      |
| MIN      | 9.5                  | -9.5     | 0.3       | 6.0      | 165                     | 40       |
| MEAN     | 20.165574            | 0.233333 | 9.2634534 | 20.06833 | 612.616667              | 152.6271 |
| ST.DEV   | 5.1379298            | 3.578206 | 3.8064793 | 5.004881 | 142.450821              | 50.07144 |
| VARIANCE | 26.398323            | 12.80356 | 14.489284 | 25.04883 | 20292.2364              | 2507.149 |

## METEOROLOGICAL DATA GATES CREEK (station BBB) in 1994

| DATE     | AIR TEMPERATURE (°C) |         |         |       | RADIATION(watts/sq.m.) |         |
|----------|----------------------|---------|---------|-------|------------------------|---------|
|          | MAXIMUM              | MINIMUM | AVERAGE | RANGE | MAXIMUM                | AVERAGE |
| 06/09/94 | 19.9                 | -3.1    | 7.94    | 23.0  | 900                    | 202     |
| 06/10/94 | 19.9                 | -4.0    | 8.10    | 23.9  | 688                    | 164     |
| 06/11/94 | 19.4                 | -0.1    | 7.95    | 19.5  | 818                    | 152     |
| 06/12/94 | 10.0                 | -3.4    | 4.39    | 13.4  | 335                    | 93      |
| 06/13/94 | 13.6                 | 2.6     | 6.13    | 11.0  | 618                    | 64      |
| 06/14/94 | 11.1                 | 1.8     | 5.22    | 9.3   | 594                    | 118     |
| 06/15/94 | 15.5                 | 2.6     | 7.22    | 12.9  | 776                    | 113     |
| 06/16/94 | 14.7                 | -0.9    | 7.23    | 15.6  | 624                    | 133     |
| 06/17/94 | 16.6                 | -1.2    | 7.27    | 17.8  | 882                    | 138     |
| 06/18/94 | 19.4                 | -2.6    | 9.25    | 22.0  | 906                    | 202     |
| 06/19/94 | 22.4                 | -0.9    | 9.91    | 23.3  | 935                    | 205     |
| 06/20/94 | 24.3                 | -2.0    | 11.03   | 26.3  | 835                    | 268     |
| 06/21/94 | 25.7                 | -1.5    | 12.74   | 27.2  | 800                    | 281     |
| 06/22/94 | 28.7                 | 0.4     | 15.01   | 28.3  | 806                    | 283     |
| 06/23/94 | 26.5                 | 5.9     | 15.68   | 20.6  | 618                    | 197     |
| 06/24/94 | 24.3                 | 3.2     | 13.20   | 21.1  | 876                    | 243     |
| 06/25/94 | 25.7                 | 1.8     | 13.43   | 23.9  | 824                    | 251     |
| 06/26/94 | 21.6                 | 4.3     | 12.46   | 17.3  | 806                    | 284     |
| 06/27/94 | 18.0                 | 2.1     | 7.65    | 15.9  | 700                    | 143     |
| 06/28/94 | 12.5                 | -0.4    | 5.92    | 12.9  | 476                    | 82      |
| 06/29/94 | 16.4                 | 1.0     | 7.83    | 15.4  | 629                    | 165     |
| 06/30/94 | 13.6                 | 2.4     | 7.02    | 11.2  | 353                    | 96      |
| 07/01/94 | 17.2                 | 4.0     | 8.02    | 13.2  | 853                    | 137     |
| 07/02/94 | 8.4                  | 4.8     | 6.18    | 3.6   | 171                    | 45      |
| 07/03/94 | 16.6                 | 2.6     | 9.60    | 14.0  | 853                    | 201     |
| 07/04/94 | 13.3                 | 2.9     | 8.35    | 10.4  | 365                    | 93      |
| 07/05/94 | 23.5                 | -0.1    | 12.28   | 23.6  | 741                    | 218     |
| 07/06/94 | 17.7                 | 3.5     | 10.26   | 14.2  | 665                    | 127     |
| 07/07/94 | 19.6                 | 2.4     | 9.96    | 17.2  | 859                    | 190     |
| 07/08/94 | 18.8                 | -0.7    | 8.65    | 19.5  | 882                    | 255     |
| 07/09/94 | 20.5                 | -2.0    | 9.41    | 22.5  | 806                    | 235     |
| 07/10/94 | 23.8                 | -1.2    | 11.24   | 25.0  | 788                    | 268     |
| 07/11/94 | 27.9                 | -0.9    | 13.20   | 28.8  | 800                    | 267     |
| 07/12/94 | 26.5                 | 1.8     | 14.32   | 24.7  | 782                    | 220     |
| 07/13/94 | 26.5                 | 4.3     | 13.81   | 22.2  | 835                    | 170     |
| 07/14/94 | 27.3                 | 5.6     | 14.27   | 21.7  | 982                    | 158     |
| 07/15/94 | 29.0                 | 2.9     | 15.33   | 26.1  | 800                    | 226     |
| 07/16/94 | 22.9                 | 5.4     | 12.30   | 17.5  | 700                    | 142     |
| 07/17/94 | 17.5                 | 5.4     | 10.00   | 12.1  | 535                    | 110     |
| 07/18/94 | 21.6                 | 2.9     | 12.03   | 18.7  | 688                    | 139     |
| 07/19/94 | 30.1                 | 1.0     | 13.60   | 29.1  | 788                    | 226     |

## METEOROLOGICAL DATA GATES CREEK (station BBB) in 1994

| DATE     | AIR TEMPERATURE (°C) |         |         |       | RADIATION(watts/sq.m.) |         |
|----------|----------------------|---------|---------|-------|------------------------|---------|
|          | MAXIMUM              | MINIMUM | AVERAGE | RANGE | MAXIMUM                | AVERAGE |
| 07/20/94 | 32.3                 | 2.4     | 15.58   | 29.9  | 824                    | 216     |
| 07/21/94 | 30.4                 | 1.0     | 14.87   | 29.4  | 829                    | 262     |
| 07/22/94 | 33.1                 | -0.1    | 15.91   | 33.2  | 824                    | 258     |
| 07/23/94 | 34.2                 | 3.5     | 18.00   | 30.7  | 800                    | 240     |
| 07/24/94 | 34.5                 | 7.8     | 19.14   | 26.7  | 953                    | 232     |
| 07/25/94 | 27.1                 | 5.4     | 12.82   | 21.7  | 859                    | 145     |
| 07/26/94 | 25.4                 | 3.7     | 13.31   | 21.7  | 818                    | 196     |
| 07/27/94 | 27.1                 | 2.4     | 14.50   | 24.7  | 841                    | 198     |
| 07/28/94 | 31.5                 | 8.1     | 16.82   | 23.4  | 853                    | 192     |
| 07/29/94 | 22.7                 | 0.7     | 11.09   | 22.0  | 806                    | 163     |
| 07/30/94 | 19.6                 | 0.4     | 9.11    | 19.2  | 912                    | 159     |
| 07/31/94 | 16.6                 | -2.3    | 8.82    | 18.9  | 629                    | 118     |
| 08/01/94 | 24.9                 | 5.6     | 14.16   | 19.3  | 794                    | 153     |
| 08/02/94 | 31.7                 | 4.5     | 16.45   | 27.2  | 924                    | 246     |
| 08/03/94 | 23.8                 | 6.2     | 14.44   | 17.6  | 453                    | 69      |
| 08/04/94 | 27.1                 | 5.9     | 14.09   | 21.2  | 906                    | 143     |
| 08/05/94 | 19.6                 | 1.5     | 9.10    | 18.1  | 676                    | 105     |
| 08/06/94 | 17.2                 | 3.7     | 9.83    | 13.5  | 524                    | 104     |
| 08/07/94 | 25.7                 | 4.5     | 13.37   | 21.2  | 718                    | 156     |
| 08/08/94 | 25.1                 | 2.4     | 12.47   | 22.7  | 759                    | 173     |
| 08/09/94 | 19.9                 | 3.2     | 11.16   | 16.7  | 471                    | 74      |
| 08/10/94 | 25.4                 | 1.3     | 11.65   | 24.1  | 776                    | 172     |
| 08/11/94 | 30.1                 | 1.8     | 14.32   | 28.3  | 765                    | 219     |
| 08/12/94 | 29.8                 | 3.7     | 15.56   | 26.1  | 694                    | 202     |
| 08/13/94 | 31.2                 | 4.5     | 14.69   | 26.7  | 671                    | 156     |
| 08/14/94 | 26.0                 | 2.9     | 13.55   | 23.1  | 771                    | 211     |
| 08/15/94 | 21.8                 | 1.3     | 9.89    | 20.5  | 641                    | 117     |
| 08/16/94 | 27.6                 | 1.8     | 10.36   | 25.8  | 759                    | 155     |
| 08/17/94 | 28.7                 | 2.6     | 13.38   | 26.1  | 712                    | 182     |
| 08/18/94 | 30.4                 | 4.0     | 15.18   | 26.4  | 682                    | 191     |
| 08/19/94 | 30.1                 | 3.5     | 14.53   | 26.6  | 706                    | 187     |
| 08/20/94 | 24.9                 | 1.3     | 11.04   | 23.6  | 765                    | 157     |
| 08/21/94 | 20.2                 | 1.5     | 9.68    | 18.7  | 547                    | 117     |
| 08/22/94 | 19.1                 | 2.9     | 9.40    | 16.2  | 824                    | 177     |
| 08/23/94 | 21.0                 | -2.6    | 6.90    | 23.6  | 706                    | 155     |
| 08/24/94 | 19.6                 | -1.8    | 6.49    | 21.4  | 847                    | 129     |
| 08/25/94 | 24.3                 | -2.9    | 7.89    | 27.2  | 700                    | 189     |
| 08/26/94 | 26.5                 | -2.6    | 9.63    | 29.1  | 724                    | 207     |
| 08/27/94 | 30.1                 | -2.0    | 11.47   | 32.1  | 735                    | 209     |
| 08/28/94 | 30.1                 | -0.7    | 12.36   | 30.8  | 741                    | 196     |
| 08/29/94 | 24.9                 | 2.6     | 12.19   | 22.3  | 659                    | 132     |

## METEOROLOGICAL DATA GATES CREEK (station BBB) in 1994

| DATE     | AIR TEMPERATURE (°C) |          |           |        | RADIATION(watts/sq.m.) |          |
|----------|----------------------|----------|-----------|--------|------------------------|----------|
|          | MAXIMUM              | MINIMUM  | AVERAGE   | RANGE  | MAXIMUM                | AVERAGE  |
| 08/30/94 | 23.2                 | -0.9     | 10.71     | 24.1   | 718                    | 166      |
| 08/31/94 | 19.9                 | 2.1      | 10.15     | 17.8   | 382                    | 92       |
| 09/01/94 | 21.8                 | -2.9     | 7.29      | 24.7   | 682                    | 156      |
| 09/02/94 | 11.1                 | 1.8      | 5.67      | 9.3    | 265                    | 45       |
| 09/03/94 | 18.0                 | -1.2     | 6.41      | 19.2   | 488                    | 95       |
| 09/04/94 | 15.0                 | -2.0     | 5.27      | 17.0   | 488                    | 76       |
| 09/05/94 | 19.1                 | 1.3      | 8.65      | 17.8   | 665                    | 143      |
| 09/06/94 | 19.4                 | -0.1     | 8.35      | 19.5   | 594                    | 102      |
| 09/07/94 | 12.0                 | -3.4     | 4.09      | 15.4   | 276                    | 64       |
| 09/08/94 | 15.5                 | 4.8      | 7.70      | 10.7   | 429                    | 73       |
| 09/09/94 | 16.6                 | -0.4     | 6.09      | 17.0   | 582                    | 76       |
| 09/10/94 | 18.8                 | -1.8     | 5.97      | 20.6   | 565                    | 100      |
| 09/11/94 | 16.9                 | -4.0     | 4.85      | 20.9   | 594                    | 96       |
| 09/12/94 | 15.0                 | 4.5      | 8.09      | 10.5   | 506                    | 74       |
| 09/13/94 | 16.6                 | 3.5      | 8.34      | 13.1   | 612                    | 89       |
| 09/14/94 | 13.9                 | 0.7      | 6.30      | 13.2   | 353                    | 53       |
| 09/15/94 | 19.9                 | -0.1     | 9.81      | 20.0   | 682                    | 121      |
| 09/16/94 | 23.5                 | 2.6      | 11.23     | 20.9   | 729                    | 145      |
| 09/17/94 | 22.1                 | 1.5      | 8.28      | 20.6   | 776                    | 110      |
| 09/18/94 | 19.9                 | 0.2      | 7.92      | 19.7   | 665                    | 95       |
| 09/19/94 | 17.2                 | -2.6     | 6.80      | 19.8   | 353                    | 57       |
| 09/20/94 | 19.1                 | -5.3     | 4.96      | 24.4   | 635                    | 154      |
| 09/21/94 | 25.1                 | 0.2      | 9.65      | 24.9   | 671                    | 151      |
| 09/22/94 | 21.6                 | 2.9      | 12.00     | 18.7   | 724                    | 149      |
| 09/23/94 | 10.9                 | 6.5      | 8.46      | 4.4    | 118                    | 31       |
| 09/24/94 | 23.8                 | 6.2      | 12.55     | 17.6   | 624                    | 139      |
| 09/25/94 | 15.5                 | -1.2     | 6.60      | 16.7   | 635                    | 102      |
| 09/26/94 | 10.0                 | -2.6     | 3.71      | 12.6   | 265                    | 51       |
| 09/27/94 | 15.3                 | -2.9     | 6.12      | 18.2   | 653                    | 92       |
| 09/28/94 | 12.8                 | -6.2     | 1.21      | 19.0   | 600                    | 104      |
| 09/29/94 | 8.4                  | -6.4     | 0.94      | 14.8   | 306                    | 64       |
| 09/30/94 | 3.7                  | 1.3      | 2.4       |        | 59                     |          |
| COUNT    | 114                  | 114      | 113       | 114    | 114                    | 113      |
| MAX      | 34.5                 | 8.1      | 19.136458 | 33.2   | 982                    | 284      |
| MIN      | 3.7                  | -6.4     | 0.9416667 | 2.4    | 59                     | 31       |
| MEAN     | 21.415789            | 1.248246 | 10.219165 | 20.168 | 675.298246             | 154.2566 |
| ST.DEV   | 6.3131939            | 3.011185 | 3.603459  | 6.0513 | 186.166212             | 61.9167  |
| VARIANCE | 39.856417            | 9.067234 | 12.984916 | 36.618 | 34657.8584             | 3833.678 |

## METEOROLOGICAL DATA GATES CREEK (Station BBB) in 1995

| DATE     | AIR TEMPERATURE (°C) |         |         |       | RADIATION(watts/sq.m.) |         |
|----------|----------------------|---------|---------|-------|------------------------|---------|
|          | MAXIMUM              | MINIMUM | AVERAGE | RANGE | MAXIMUM                | AVERAGE |
| 06/16/95 | 19.9                 |         |         |       |                        |         |
| 06/17/95 | 16.1                 | 3.2     | 8.56    | 12.9  | 682                    | 121     |
| 06/18/95 | 23.8                 | -2.3    | 9.72    | 26.1  | 894                    | 201     |
| 06/19/95 | 26.0                 | 4.8     | 13.09   | 21.2  | 824                    | 179     |
| 06/20/95 | 26.2                 | 3.2     | 14.39   | 23.0  | 794                    | 268     |
| 06/21/95 | 26.8                 | -0.7    | 13.73   | 27.5  | 782                    | 268     |
| 06/22/95 | 22.9                 | 3.7     | 12.31   | 19.2  | 888                    | 189     |
| 06/23/95 | 19.9                 | -0.1    | 8.95    | 20.0  | 941                    | 187     |
| 06/24/95 | 17.7                 | -0.1    | 7.49    | 17.8  | 688                    | 153     |
| 06/25/95 | 16.4                 | -4.0    | 5.42    | 20.4  | 765                    | 176     |
| 06/26/95 | 23.8                 | -4.0    | 9.71    | 27.8  | 806                    | 267     |
| 06/27/95 | 29.3                 | -1.8    | 14.43   | 31.1  | 794                    | 272     |
| 06/28/95 | 31.5                 | 0.4     | 16.85   | 31.1  | 800                    | 268     |
| 06/29/95 | 30.6                 | 0.7     | 16.42   | 29.9  | 841                    | 237     |
| 06/30/95 | 32.0                 | 2.9     | 17.84   | 29.1  | 841                    | 262     |
| 07/01/95 | 20.7                 | 4.5     | 11.92   | 16.2  | 382                    | 92      |
| 07/02/95 | 20.5                 | 7.0     | 12.36   | 13.5  | 876                    | 146     |
| 07/03/95 | 22.7                 | 5.9     | 12.41   | 16.8  | 871                    | 159     |
| 07/04/95 | 19.4                 | 1.8     | 10.16   | 17.6  | 571                    | 131     |
| 07/05/95 | 19.1                 | 1.8     | 9.44    | 17.3  | 659                    | 133     |
| 07/06/95 | 22.4                 | -0.1    | 10.71   | 22.5  | 788                    | 175     |
| 07/07/95 | 25.1                 | -0.4    | 12.88   | 25.5  | 800                    | 154     |
| 07/08/95 | 22.1                 | 5.1     | 10.99   | 17.0  | 659                    | 100     |
| 07/09/95 | 22.7                 | 2.4     | 12.59   | 20.3  | 618                    | 152     |
| 07/10/95 | 8.9                  | 4.5     | 7.31    | 4.4   | 288                    | 64      |
| 07/11/95 | 13.3                 | 2.4     | 7.96    | 10.9  | 335                    | 80      |
| 07/12/95 | 22.4                 | 0.7     | 10.48   | 21.7  | 812                    | 186     |
| 07/13/95 | 17.7                 | 3.2     | 9.39    | 14.5  | 459                    | 115     |
| 07/14/95 | 19.1                 | 2.4     | 9.98    | 16.7  | 612                    | 130     |
| 07/15/95 | 23.8                 | -1.2    | 11.39   | 25.0  | 853                    | 241     |
| 07/16/95 | 25.1                 | 4.0     | 13.61   | 21.1  | 782                    | 182     |
| 07/17/95 | 25.7                 | 3.5     | 13.90   | 22.2  | 741                    | 189     |
| 07/18/95 | 29.5                 | 2.9     | 15.16   | 26.6  | 800                    | 248     |
| 07/19/95 | 31.7                 | 3.7     | 17.95   | 28.0  | 765                    | 255     |
| 07/20/95 | 28.7                 | 5.6     | 16.42   | 23.1  | 853                    | 185     |
| 07/21/95 | 29.3                 | 4.5     | 16.60   | 24.8  | 718                    | 214     |
| 07/22/95 | 28.2                 | 5.4     | 15.46   | 22.8  | 718                    | 178     |
| 07/23/95 | 21.3                 | 2.9     | 12.26   | 18.4  | 676                    | 148     |
| 07/24/95 | 13.1                 | 4.0     | 8.04    | 9.1   | 435                    | 64      |
| 07/25/95 | 24.6                 | 3.2     | 12.29   | 21.4  | 865                    | 193     |

## METEOROLOGICAL DATA GATES CREEK (Station BBB) in 1995

| DATE     | AIR TEMPERATURE (°C) |         |         |       | RADIATION(watts/sq.m.) |         |
|----------|----------------------|---------|---------|-------|------------------------|---------|
|          | MAXIMUM              | MINIMUM | AVERAGE | RANGE | MAXIMUM                | AVERAGE |
| 07/26/95 | 20.7                 | 1.8     | 9.23    | 18.9  | 759                    | 184     |
| 07/27/95 | 19.1                 | -2.3    | 6.90    | 21.4  | 876                    | 160     |
| 07/28/95 | 15.8                 | -3.7    | 6.96    | 19.5  | 594                    | 131     |
| 07/29/95 | 24.0                 | 1.8     | 11.47   | 22.2  | 853                    | 223     |
| 07/30/95 | 15.8                 | 1.3     | 8.27    | 14.5  | 447                    | 101     |
| 07/31/95 | 22.7                 | 3.2     | 10.04   | 19.5  | 724                    | 107     |
| 08/01/95 | 21.3                 | 4.0     | 10.95   | 17.3  | 824                    | 180     |
| 08/02/95 | 20.5                 | 3.5     | 10.77   | 17.0  | 635                    | 112     |
| 08/03/95 | 24.0                 | 5.1     | 13.04   | 18.9  | 776                    | 147     |
| 08/04/95 | 21.6                 | 1.8     | 12.87   | 19.8  | 735                    | 169     |
| 08/05/95 | 18.8                 | -1.8    | 7.75    | 20.6  | 747                    | 140     |
| 08/06/95 | 22.1                 | -1.5    | 8.13    | 23.6  | 853                    | 194     |
| 08/07/95 | 21.6                 | 1.0     | 9.01    | 20.6  | 671                    | 162     |
| 08/08/95 | 22.1                 | 0.4     | 9.72    | 21.7  | 735                    | 136     |
| 08/09/95 | 19.4                 | 2.4     | 11.04   | 17.0  | 535                    | 142     |
| 08/10/95 | 20.2                 | 5.4     | 10.11   | 14.8  | 724                    | 82      |
| 08/11/95 | 20.5                 | 0.7     | 9.66    | 19.8  | 735                    | 154     |
| 08/12/95 | 22.7                 | -2.0    | 8.89    | 24.7  | 782                    | 200     |
| 08/13/95 | 17.7                 | 1.0     | 8.50    | 16.7  | 641                    | 97      |
| 08/14/95 | 16.4                 | -0.1    | 7.39    | 16.5  | 659                    | 90      |
| 08/15/95 | 15.5                 | -2.9    | 4.59    | 18.4  | 618                    | 98      |
| 08/16/95 | 19.9                 | -2.9    | 7.09    | 22.8  | 771                    | 147     |
| 08/17/95 | 20.2                 | -2.9    | 8.06    | 23.1  | 612                    | 151     |
| 08/18/95 | 16.6                 | 0.7     | 8.18    | 15.9  | 465                    | 130     |
| 08/19/95 | 15.0                 | 0.4     | 6.76    | 14.6  | 429                    | 84      |
| 08/20/95 | 15.8                 | 2.1     | 7.47    | 13.7  | 424                    | 74      |
| 08/21/95 | 19.1                 | 3.7     | 9.22    | 15.4  | 600                    | 93      |
| 08/22/95 | 15.5                 | 1.5     | 7.64    | 14.0  | 500                    | 84      |
| 08/23/95 | 18.3                 | -2.6    | 6.22    | 20.9  | 653                    | 119     |
| 08/24/95 | 16.4                 | 1.0     | 7.01    | 15.4  | 482                    | 99      |
| 08/25/95 | 17.7                 | -2.0    | 6.38    | 19.7  | 553                    | 92      |
| 08/26/95 | 17.2                 | -2.3    | 6.40    | 19.5  | 482                    | 96      |
| 08/27/95 | 19.9                 | -2.9    | 7.28    | 22.8  | 594                    | 135     |
| 08/28/95 | 22.7                 | -2.9    | 8.10    | 25.6  | 741                    | 166     |
| 08/29/95 | 22.1                 | -2.9    | 7.24    | 25.0  | 659                    | 170     |
| 08/30/95 | 22.9                 | -2.9    | 8.10    | 25.8  | 647                    | 189     |
| 08/31/95 | 21.3                 | -2.6    | 8.00    | 23.9  | 641                    | 129     |
| 09/01/95 | 24.3                 | -1.5    | 10.40   | 25.8  | 671                    | 132     |
| 09/02/95 | 27.3                 | 5.6     | 13.38   | 21.7  | 706                    | 122     |
| 09/03/95 | 27.6                 | 3.5     | 12.71   | 24.1  | 635                    | 155     |

## METEOROLOGICAL DATA GATES CREEK (Station BBB) in 1995

| DATE     | AIR TEMPERATURE (°C) |          |           |        | RADIATION(watts/sq.m.) |          |
|----------|----------------------|----------|-----------|--------|------------------------|----------|
|          | MAXIMUM              | MINIMUM  | AVERAGE   | RANGE  | MAXIMUM                | AVERAGE  |
| 09/04/95 | 29.3                 | 1.5      | 13.47     | 27.8   | 624                    | 179      |
| 09/05/95 | 27.6                 | 4.0      | 13.69     | 23.6   | 629                    | 107      |
| 09/06/95 | 26.0                 | 3.2      | 13.54     | 22.8   | 635                    | 157      |
| 09/07/95 | 28.7                 | 0.7      | 12.29     | 28.0   | 618                    | 174      |
| 09/08/95 | 29.5                 | 1.5      | 13.09     | 28.0   | 624                    | 175      |
| 09/09/95 | 27.3                 | -0.4     | 10.81     | 27.7   | 712                    | 118      |
| 09/10/95 | 24.3                 | 7.0      | 12.38     | 17.3   | 659                    | 114      |
| 09/11/95 | 23.2                 | 6.5      | 12.18     | 16.7   | 700                    | 113      |
| 09/12/95 | 24.0                 | 0.4      | 11.11     | 23.6   | 606                    | 153      |
| 09/13/95 | 25.7                 | -2.9     | 8.93      | 28.6   | 594                    | 159      |
| 09/14/95 | 27.3                 | -0.9     | 9.71      | 28.2   | 594                    | 147      |
| 09/15/95 | 23.2                 | -1.8     | 8.08      | 25.0   | 588                    | 150      |
| 09/16/95 | 24.0                 | -3.1     | 8.50      | 27.1   | 576                    | 154      |
| 09/17/95 | 24.9                 | -2.0     | 10.05     | 26.9   | 565                    | 146      |
| 09/18/95 | 5.9                  | -0.7     | 3.59      | 6.6    | 212                    | 43       |
| 09/19/95 | 20.5                 | -4.5     | 5.57      | 25.0   | 565                    | 151      |
| 09/20/95 | 22.9                 | -8.1     | 5.42      | 31.0   | 571                    | 149      |
| 09/21/95 | 26.8                 | -4.8     | 7.48      | 31.6   | 565                    | 143      |
| 09/22/95 | 29.3                 | -4.8     | 8.05      | 34.1   | 576                    | 143      |
| 09/23/95 | 28.4                 | -3.4     | 9.88      | 31.8   | 565                    | 139      |
| 09/24/95 | 27.6                 | -1.8     | 9.35      | 29.4   | 553                    | 133      |
| 09/25/95 | 27.1                 | -1.8     | 10.09     | 28.9   | 535                    | 112      |
| 09/26/95 | 16.9                 | 0.4      | 7.41      | 16.5   | 406                    | 47       |
| 09/27/95 | 16.1                 | -3.1     | 6.00      | 19.2   | 424                    | 77       |
| 09/28/95 | 15.5                 | 2.6      | 7.19      | 12.9   | 612                    | 82       |
| 09/29/95 | 19.1                 | -2.3     | 5.96      | 21.4   | 641                    | 92       |
| 09/30/95 | 12.0                 | -4.5     | 2.57      | 16.5   | 418                    | 66       |
| 10/01/95 | 9.5                  | -5.1     |           | 14.6   | 224                    |          |
| COUNT    | 108                  | 107      | 106       | 107    | 107                    | 106      |
| MAX      | 32.0                 | 7.0      | 17.951042 | 34.1   | 941                    | 272      |
| MIN      | 5.9                  | -8.1     | 2.5677083 | 4.4    | 212                    | 43       |
| MEAN     | 21.897222            | 0.62243  | 10.07441  | 21.293 | 654.719626             | 148.6887 |
| ST.DEV   | 5.1144034            | 3.172555 | 3.1230288 | 5.645  | 149.170027             | 51.77316 |
| VARIANCE | 26.157122            | 10.0651  | 9.7533091 | 31.866 | 22251.6971             | 2680.46  |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS AAA and BBB in 1993

| DATE     | STATION AAA |      |       |       | STATION BBB |     |      |       |
|----------|-------------|------|-------|-------|-------------|-----|------|-------|
|          | MAX         | MIN  | MEAN  | RANGE | MAX         | MIN | MEAN | RANGE |
| 07/28/93 | 12.6        |      |       |       |             |     |      |       |
| 07/29/93 | 11.5        | 9.5  | 10.64 | 2.00  |             |     |      |       |
| 07/30/93 | 10.1        | 9.0  | 9.51  | 1.10  | 8.0         |     |      |       |
| 07/31/93 | 12.1        | 8.8  | 10.22 | 3.30  |             |     |      |       |
| 08/01/93 | 13.5        | 9.8  | 11.37 | 3.70  | 8.8         | 7.8 | 8.22 | 1.00  |
| 08/02/93 | 15.0        | 9.7  | 11.99 | 5.30  | 9.2         | 7.7 | 8.40 | 1.50  |
| 08/03/93 | 15.1        | 10.0 | 12.36 | 5.10  | 9.5         | 7.8 | 8.58 | 1.70  |
| 08/04/93 | 16.1        | 10.7 | 13.10 | 5.40  | 9.8         | 8.1 | 8.84 | 1.70  |
| 08/05/93 | 16.6        | 11.1 | 13.54 | 5.50  | 10.2        | 8.4 | 9.16 | 1.80  |
| 08/06/93 | 15.3        | 11.3 | 13.17 | 4.00  | 9.6         | 8.4 | 8.92 | 1.20  |
| 08/07/93 | 15.3        | 10.9 | 13.08 | 4.40  | 9.6         | 8.0 | 8.75 | 1.60  |
| 08/08/93 | 13.2        | 11.7 | 12.39 | 1.45  | 9.4         | 8.6 | 8.85 | 0.80  |
| 08/09/93 | 12.8        | 10.9 | 11.70 | 1.90  | 9.0         | 8.3 | 8.71 | 0.70  |
| 08/10/93 | 13.8        | 10.0 | 11.51 | 3.80  | 8.9         | 7.5 | 8.18 | 1.40  |
| 08/11/93 | 13.3        | 9.0  | 11.13 | 4.30  | 8.8         | 7.3 | 8.09 | 1.50  |
| 08/12/93 | 13.7        | 10.4 | 11.85 | 3.30  | 8.8         | 7.8 | 8.30 | 1.00  |
| 08/13/93 | 13.4        | 10.1 | 11.52 | 3.30  | 8.6         | 7.7 | 8.10 | 0.90  |
| 08/14/93 | 14.8        | 10.2 | 12.14 | 4.55  | 9.2         | 7.7 | 8.25 | 1.50  |
| 08/15/93 | 14.6        | 9.4  | 11.95 | 5.20  | 9.2         | 7.3 | 8.22 | 1.90  |
| 08/16/93 | 15.2        | 10.2 | 12.55 | 5.00  | 9.6         | 7.8 | 8.61 | 1.80  |
| 08/17/93 | 15.3        | 10.3 | 12.63 | 5.00  | 9.8         | 8.2 | 8.84 | 1.60  |
| 08/18/93 | 14.6        | 10.7 | 12.56 | 3.90  | 9.5         | 7.8 | 8.68 | 1.70  |
| 08/19/93 | 15.6        | 10.4 | 12.77 | 5.20  | 9.8         | 7.8 | 8.74 | 2.00  |
| 08/20/93 | 14.4        | 10.7 | 12.60 | 3.70  | 9.8         | 8.0 | 8.93 | 1.80  |
| 08/21/93 | 14.4        | 11.3 | 12.58 | 3.10  | 10.4        | 8.6 | 9.21 | 1.80  |
| 08/22/93 | 12.7        | 11.0 | 11.84 | 1.70  | 9.2         | 8.2 | 8.68 | 1.00  |
| 08/23/93 | 11.9        | 10.4 | 11.43 | 1.50  | 8.9         | 7.8 | 8.52 | 1.10  |
| 08/24/93 | 11.0        | 9.8  | 10.40 | 1.20  | 8.1         | 7.5 | 7.77 | 0.60  |
| 08/25/93 | 12.1        | 9.9  | 10.72 | 2.20  | 8.4         | 7.6 | 7.90 | 0.80  |
| 08/26/93 | 10.9        | 9.0  | 9.98  | 1.90  | 7.9         | 7.1 | 7.54 | 0.80  |
| 08/27/93 | 11.5        | 8.7  | 9.97  | 2.80  | 8.4         | 6.9 | 7.47 | 1.50  |
| 08/28/93 | 11.6        | 7.9  | 9.78  | 3.70  | 8.0         | 6.2 | 7.23 | 1.80  |
| 08/29/93 | 12.4        | 7.7  | 9.85  | 4.70  | 8.4         | 6.1 | 7.15 | 2.35  |
| 08/30/93 | 12.9        | 7.8  | 10.21 | 5.10  | 8.8         | 6.3 | 7.48 | 2.50  |
| 08/31/93 | 13.3        | 9.4  | 11.15 | 3.90  | 9.6         | 7.4 | 8.38 | 2.20  |
| 09/01/93 | 14.2        | 9.4  | 11.46 | 4.80  | 10.2        | 7.5 | 8.52 | 2.70  |
| 09/02/93 | 14.4        | 9.4  | 11.53 | 5.00  | 10.7        | 7.6 | 8.65 | 3.10  |
| 09/03/93 | 14.2        | 9.4  | 11.46 | 4.80  | 10.6        | 7.6 | 8.60 | 2.95  |
| 09/04/93 | 13.8        | 8.8  | 10.97 | 5.00  | 10.2        | 7.2 | 8.34 | 3.00  |
| 09/05/93 | 13.7        | 8.6  | 10.87 | 5.10  | 10.2        | 6.9 | 8.23 | 3.30  |
| 09/06/93 | 13.2        | 8.8  | 10.83 | 4.35  | 10.2        | 7.1 | 8.28 | 3.10  |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS AAA and BBB in 1993

|          | STATION AAA |         |         |         | STATION BBB |         |         |         |
|----------|-------------|---------|---------|---------|-------------|---------|---------|---------|
| DATE     | MAX         | MIN     | MEAN    | RANGE   | MAX         | MIN     | MEAN    | RANGE   |
| 09/07/93 | 13.5        | 9.0     | 10.91   | 4.50    | 10.7        | 7.3     | 8.51    | 3.40    |
| 09/08/93 | 10.9        | 9.3     | 10.03   | 1.60    | 10.4        | 7.4     | 8.46    | 3.00    |
| 09/09/93 | 12.1        | 8.6     | 10.25   | 3.50    | 9.6         | 6.3     | 7.95    | 3.30    |
| 09/10/93 | 11.5        | 9.2     | 10.35   | 2.30    | 10.0        | 7.3     | 8.45    | 2.70    |
| 09/11/93 | 11.1        | 8.9     | 9.80    | 2.20    | 8.5         | 6.4     | 7.49    | 2.10    |
| 09/12/93 | 10.9        | 7.4     | 9.00    | 3.50    | 8.2         | 4.9     | 6.52    | 3.30    |
| 09/13/93 | 11.0        | 8.7     | 9.65    | 2.30    | 8.8         | 6.7     | 7.60    | 2.10    |
| 09/14/93 | 11.0        | 8.3     | 9.45    | 2.70    | 8.6         | 6.1     | 7.21    | 2.50    |
| 09/15/93 | 10.8        | 7.8     | 9.08    | 3.05    | 8.0         | 5.0     | 6.44    | 3.00    |
| 09/16/93 | 10.2        | 7.0     | 8.41    | 3.20    | 7.7         | 4.3     | 5.85    | 3.40    |
| 09/17/93 | 10.6        | 6.9     | 8.32    | 3.65    | 7.8         | 4.6     | 6.04    | 3.20    |
| 09/18/93 | 9.5         | 6.9     | 7.85    | 2.60    | 6.9         | 4.3     | 5.56    | 2.60    |
| 09/19/93 | 8.7         | 5.6     | 6.83    | 3.10    | 6.0         | 3.4     | 4.35    | 2.60    |
| 09/20/93 | 8.3         | 4.5     | 6.12    | 3.80    | 4.9         | 2.1     | 3.40    | 2.80    |
| 09/21/93 | 8.5         | 4.5     | 6.35    | 4.00    | 5.2         | 2.2     | 3.61    | 3.05    |
| 09/22/93 | 8.6         | 5.1     | 6.73    | 3.50    | 6.0         | 3.1     | 4.39    | 2.90    |
| 09/23/93 | 8.1         | 6.1     | 7.13    | 2.05    | 7.1         | 4.8     | 5.86    | 2.30    |
| 09/24/93 | 9.1         | 7.1     | 7.88    | 2.00    | 6.9         | 5.6     | 6.17    | 1.30    |
| 09/25/93 | 8.4         | 5.8     | 7.17    | 2.60    | 6.1         | 4.1     | 5.25    | 2.00    |
| 09/26/93 | 9.4         | 7.7     | 8.33    | 1.70    | 8.1         | 5.9     | 6.75    | 2.20    |
| 09/27/93 | 7.8         | 6.0     | 6.92    | 1.85    | 6.5         | 4.1     | 5.19    | 2.40    |
| 09/28/93 |             |         |         |         | 6.0         | 3.4     |         |         |
| COUNT    | 62          | 62      | 61      | 61      | 61          | 60      | 59      | 59      |
| MAX      | 16.6        | 11.7    | 13.5406 | 5.5     | 10.7        | 8.6     | 9.20625 | 3.4     |
| MIN      | 7.8         | 4.5     | 6.12448 | 1.1     | 4.9         | 2.1     | 3.40365 | 0.6     |
| MEAN     | 12.3532     | 8.84435 | 10.4568 | 3.4582  | 8.6828      | 6.6375  | 7.59792 | 2.04661 |
| ST.DEV.  | 2.25175     | 1.75198 | 1.90006 | 1.26083 | 1.3821      | 1.65385 | 1.40929 | 0.81656 |
| VARIANCE | 5.07039     | 3.06944 | 3.61024 | 1.58969 | 1.9101      | 2.73522 | 1.98609 | 0.66677 |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS AAA and BBB in 1994

|          | STATION AAA* |     |      |       | STATION BBB |     |      |       |
|----------|--------------|-----|------|-------|-------------|-----|------|-------|
| DATE     | MAX          | MIN | MEAN | RANGE | MAX         | MIN | MEAN | RANGE |
| 06/08/94 |              |     |      |       | 6.3         |     |      |       |
| 06/09/94 |              |     |      |       | 6.5         | 4.7 | 5.60 | 1.80  |
| 06/10/94 |              |     |      |       | 8.53        | 6.3 | 4.9  | 5.54  |
| 06/11/94 |              |     |      |       | 9.30        | 6.5 | 5.2  | 5.77  |
| 06/12/94 |              |     |      |       | 8.17        | 5.6 | 4.9  | 5.25  |
| 06/13/94 |              |     |      |       | 8.46        | 6.1 | 5.4  | 5.77  |
| 06/14/94 |              |     |      |       | 7.93        | 6.3 | 5.6  | 5.87  |
| 06/15/94 |              |     |      |       | 8.29        | 6.3 | 5.6  | 5.91  |
| 06/16/94 |              |     |      |       | 8.56        | 6.7 | 5.6  | 6.10  |
| 06/17/94 |              |     |      |       | 8.67        | 6.7 | 5.6  | 6.14  |
| 06/18/94 |              |     |      |       | 8.82        | 7.1 | 5.4  | 6.27  |
| 06/19/94 |              |     |      |       | 9.08        | 7.5 | 5.6  | 6.49  |
| 06/20/94 |              |     |      |       | 9.53        | 7.7 | 5.6  | 6.71  |
| 06/21/94 |              |     |      |       | 10.16       | 8.0 | 6.0  | 6.97  |
| 06/22/94 |              |     |      |       | 11.03       | 8.4 | 6.3  | 7.37  |
| 06/23/94 |              |     |      |       | 11.61       | 8.4 | 7.1  | 7.69  |
| 06/24/94 |              |     |      |       | 12.03       | 8.6 | 7.1  | 7.77  |
| 06/25/94 |              |     |      |       | 12.10       | 8.8 | 6.9  | 7.78  |
| 06/26/94 |              |     |      |       | 12.17       | 8.8 | 7.1  | 7.80  |
| 06/27/94 |              |     |      |       | 11.12       | 7.8 | 6.7  | 7.21  |
| 06/28/94 |              |     |      |       | 9.93        | 6.9 | 6.3  | 6.65  |
| 06/29/94 |              |     |      |       | 9.94        | 7.3 | 6.3  | 6.78  |
| 06/30/94 |              |     |      |       | 9.64        | 7.1 | 6.3  | 6.73  |
|          |              |     |      |       | 0.80        |     |      |       |
|          |              |     |      |       | 9.92        | 7.5 | 6.5  | 6.94  |
|          |              |     |      |       | 9.45        | 7.1 | 6.7  | 6.92  |
|          |              |     |      |       | 9.76        | 7.8 | 6.7  | 7.34  |
|          |              |     |      |       | 9.59        | 7.3 | 6.9  | 7.15  |
|          |              |     |      |       | 10.13       | 8.0 | 6.3  | 7.29  |
|          |              |     |      |       | 10.73       | 8.0 | 7.1  | 7.49  |
|          |              |     |      |       | 11.19       | 8.4 | 7.1  | 7.53  |
|          |              |     |      |       | 10.79       | 8.2 | 6.5  | 7.25  |
|          |              |     |      |       | 10.62       | 8.2 | 6.3  | 7.17  |
|          |              |     |      |       | 11.05       | 8.4 | 6.3  | 7.38  |
|          |              |     |      |       | 11.57       | 8.6 | 6.7  | 7.65  |
|          |              |     |      |       | 12.16       | 9.0 | 7.1  | 8.00  |
|          |              |     |      |       | 12.53       | 9.0 | 7.7  | 8.19  |
|          |              |     |      |       | 12.65       | 8.8 | 7.7  | 8.26  |
|          |              |     |      |       | 12.90       | 9.4 | 7.7  | 8.52  |
|          |              |     |      |       | 12.82       | 9.2 | 8.0  | 8.47  |
|          |              |     |      |       | 12.46       | 8.8 | 8.0  | 8.33  |
|          |              |     |      |       | 12.37       | 9.2 | 7.8  | 8.35  |
|          |              |     |      |       | 1.40        |     |      |       |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS AAA and BBB in 1994

| DATE     | STATION AAA* |     |       |       | STATION BBB |     |       |       |
|----------|--------------|-----|-------|-------|-------------|-----|-------|-------|
|          | MAX          | MIN | MEAN  | RANGE | MAX         | MIN | MEAN  | RANGE |
| 07/19/94 |              |     | 12.85 |       | 9.6         | 7.5 | 8.50  | 2.10  |
| 07/20/94 |              |     | 13.50 |       | 10.2        | 8.0 | 8.90  | 2.20  |
| 07/21/94 |              |     | 13.63 |       | 10.4        | 8.0 | 9.09  | 2.40  |
| 07/22/94 |              |     | 13.50 |       | 10.4        | 7.8 | 9.03  | 2.60  |
| 07/23/94 |              |     | 14.13 |       | 10.9        | 8.4 | 9.52  | 2.50  |
| 07/24/94 |              |     | 15.01 |       | 11.7        | 9.2 | 10.16 | 2.50  |
| 07/25/94 |              |     | 14.15 |       | 11.1        | 9.4 | 9.93  | 1.70  |
| 07/26/94 |              |     | 14.04 |       | 10.9        | 9.2 | 9.86  | 1.70  |
| 07/27/94 |              |     | 13.88 |       | 10.9        | 8.8 | 9.81  | 2.10  |
| 07/28/94 |              |     | 14.45 |       | 11.1        | 9.4 | 10.20 | 1.70  |
| 07/29/94 |              |     | 13.77 |       | 10.7        | 9.2 | 9.84  | 1.50  |
| 07/30/94 |              |     | 12.69 |       | 9.8         | 8.4 | 9.07  | 1.40  |
| 07/31/94 |              |     | 11.96 |       | 9.0         | 7.5 | 8.39  | 1.50  |
| 08/01/94 |              |     | 13.18 |       | 10.0        | 8.4 | 9.11  | 1.60  |
| 08/02/94 |              |     | 14.07 |       | 11.3        | 8.8 | 9.91  | 2.50  |
| 08/03/94 |              |     | 13.86 |       | 10.4        | 9.4 | 9.87  | 1.00  |
| 08/04/94 |              |     | 14.08 |       | 11.3        | 9.4 | 10.32 | 1.90  |
| 08/05/94 |              |     | 12.88 |       | 10.4        | 9.2 | 9.81  | 1.20  |
| 08/06/94 |              |     | 12.53 |       | 10.0        | 9.0 | 9.41  | 1.00  |
| 08/07/94 |              |     | 13.25 |       | 11.1        | 9.0 | 9.88  | 2.10  |
| 08/08/94 |              |     | 13.19 |       | 11.1        | 8.4 | 9.84  | 2.70  |
| 08/09/94 |              |     | 13.18 |       | 10.2        | 9.0 | 9.82  | 1.20  |
| 08/10/94 |              |     | 12.85 |       | 11.1        | 8.2 | 9.49  | 2.90  |
| 08/11/94 |              |     | 13.02 |       | 11.7        | 8.4 | 9.77  | 3.30  |
| 08/12/94 |              |     | 13.53 |       | 11.7        | 9.0 | 10.22 | 2.70  |
| 08/13/94 |              |     | 13.71 |       | 11.7        | 9.2 | 10.29 | 2.50  |
| 08/14/94 |              |     | 13.92 |       | 12.4        | 9.8 | 10.79 | 2.60  |
| 08/15/94 |              |     | 13.05 |       | 10.9        | 8.8 | 9.88  | 2.10  |
| 08/16/94 |              |     | 12.70 |       | 10.9        | 8.6 | 9.66  | 2.30  |
| 08/17/94 |              |     | 12.97 |       | 11.7        | 8.8 | 10.03 | 2.90  |
| 08/18/94 |              |     | 13.16 |       | 12.1        | 9.0 | 10.44 | 3.10  |
| 08/19/94 |              |     | 13.16 |       | 12.4        | 9.2 | 10.68 | 3.20  |
| 08/20/94 |              |     | 12.72 |       | 11.5        | 9.0 | 10.31 | 2.50  |
| 08/21/94 |              |     | 12.63 |       | 10.9        | 9.2 | 10.17 | 1.70  |
| 08/22/94 |              |     | 12.23 |       | 11.5        | 9.4 | 10.17 | 2.10  |
| 08/23/94 |              |     | 11.23 |       | 9.6         | 7.3 | 8.51  | 2.30  |
| 08/24/94 |              |     | 11.04 |       | 9.4         | 6.7 | 8.12  | 2.70  |
| 08/25/94 |              |     | 10.52 |       | 9.6         | 6.0 | 7.67  | 3.60  |
| 08/26/94 |              |     | 10.33 |       | 9.6         | 6.0 | 7.60  | 3.60  |
| 08/27/94 |              |     | 10.45 |       | 10.0        | 6.1 | 7.89  | 3.90  |
| 08/28/94 |              |     | 10.74 |       | 10.4        | 6.9 | 8.52  | 3.50  |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS AAA and BBB in 1994

| DATE     | STATION AAA* |     |         |       | STATION BBB |         |         |         |
|----------|--------------|-----|---------|-------|-------------|---------|---------|---------|
|          | MAX          | MIN | MEAN    | RANGE | MAX         | MIN     | MEAN    | RANGE   |
| 08/29/94 |              |     | 11.42   |       | 11.5        | 8.8     | 9.78    | 2.70    |
| 08/30/94 |              |     | 11.01   |       | 10.9        | 7.7     | 9.18    | 3.20    |
| 08/31/94 |              |     | 11.16   |       | 10.4        | 8.8     | 9.54    | 1.60    |
| 09/01/94 |              |     | 10.48   |       | 9.8         | 7.1     | 8.43    | 2.70    |
| 09/02/94 |              |     | 10.09   |       | 8.6         | 7.5     | 8.03    | 1.10    |
| 09/03/94 |              |     | 10.11   |       | 9.0         | 7.3     | 8.06    | 1.70    |
| 09/04/94 |              |     | 9.61    |       | 8.0         | 6.1     | 7.14    | 1.90    |
| 09/05/94 |              |     | 10.25   |       | 9.2         | 7.1     | 8.01    | 2.10    |
| 09/06/94 |              |     | 10.73   |       | 9.6         | 8.2     | 8.77    | 1.40    |
| 09/07/94 |              |     | 9.45    |       | 8.4         | 6.0     | 7.14    | 2.40    |
| 09/08/94 |              |     | 10.22   |       | 8.8         | 7.5     | 8.05    | 1.30    |
| 09/09/94 |              |     | 10.31   |       | 8.6         | 7.3     | 7.91    | 1.30    |
| 09/10/94 |              |     | 9.83    |       | 8.4         | 6.9     | 7.49    | 1.50    |
| 09/11/94 |              |     | 8.91    |       | 7.5         | 5.0     | 6.41    | 2.50    |
| 09/12/94 |              |     | 9.83    |       | 8.6         | 6.9     | 7.62    | 1.70    |
| 09/13/94 |              |     | 10.30   |       | 10.0        | 8.2     | 8.90    | 1.80    |
| 09/14/94 |              |     | 9.77    |       | 8.4         | 7.1     | 7.83    | 1.30    |
| 09/15/94 |              |     | 10.22   |       | 9.6         | 6.9     | 8.19    | 2.70    |
| 09/16/94 |              |     | 10.92   |       | 10.0        | 7.5     | 8.60    | 2.50    |
| 09/17/94 |              |     | 10.52   |       | 9.4         | 7.5     | 8.41    | 1.90    |
| 09/18/94 |              |     | 10.14   |       | 9.6         | 7.3     | 8.37    | 2.30    |
| 09/19/94 |              |     | 10.34   |       | 9.0         | 7.3     | 8.51    | 1.70    |
| 09/20/94 |              |     | 8.78    |       | 7.7         | 5.6     | 6.80    | 2.10    |
| 09/21/94 |              |     | 9.32    |       | 8.6         | 6.1     | 7.28    | 2.50    |
| 09/22/94 |              |     | 10.51   |       | 10.0        | 7.5     | 8.60    | 2.50    |
| 09/23/94 |              |     | 10.63   |       | 9.2         | 8.6     | 8.84    | 0.60    |
| 09/24/94 |              |     | 10.98   |       | 10.0        | 8.6     | 9.05    | 1.40    |
| 09/25/94 |              |     | 10.32   |       | 9.2         | 7.5     | 8.69    | 1.70    |
| 09/26/94 |              |     | 9.27    |       | 7.8         | 6.1     | 7.11    | 1.70    |
| 09/27/94 |              |     | 9.28    |       | 8.6         | 6.1     | 7.57    | 2.50    |
| 09/28/94 |              |     | 7.84    |       | 6.5         | 4.5     | 5.50    | 2.00    |
| 09/29/94 |              |     | 7.26    |       | 5.6         | 4.0     | 4.88    | 1.60    |
| 09/30/94 |              |     | 7.36    |       | 5.4         |         |         |         |
| COUNT    |              |     | 113     |       | 114         | 114     | 113     | 113     |
| MAX      |              |     | 15.0125 |       | 12.4        | 9.8     | 10.7854 | 3.9     |
| MIN      |              |     | 7.25555 |       | 5.6         | 4       | 4.87917 | 0.4     |
| MEAN     |              |     | 11.2097 |       | 9.157       | 7.32018 | 8.20527 | 1.84513 |
| ST.DEV   |              |     | 1.81719 |       | 1.6375      | 1.33962 | 1.3917  | 0.73689 |
| VARIANCE |              |     | 3.30217 |       | 2.6814      | 1.79459 | 1.93684 | 0.54301 |

\* Data reconstructed using 1993 data from stn. A and stn. C, and 1994 data from stn. C.

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS AAA and BBB in 1995

| DATE     | STATION AAA |      |       |       | STATION BBB |     |      |       |
|----------|-------------|------|-------|-------|-------------|-----|------|-------|
|          | MAX         | MIN  | MEAN  | RANGE | MAX         | MIN | MEAN | RANGE |
| 06/16/95 | 11.1        |      |       |       | 6.9         |     |      |       |
| 06/17/95 | 10.9        | 8.6  | 9.74  | 2.3   | 6.5         | 5.8 | 6.18 | 0.7   |
| 06/18/95 | 12.8        | 7.8  | 9.98  | 5.0   | 7.5         | 5.4 | 6.34 | 2.1   |
| 06/19/95 | 13.5        | 8.8  | 10.69 | 4.7   | 7.8         | 6.1 | 6.83 | 1.7   |
| 06/20/95 | 15.1        | 9.2  | 11.70 | 5.9   | 8.6         | 6.3 | 7.38 | 2.3   |
| 06/21/95 | 15.6        | 9.4  | 12.08 | 6.2   | 8.6         | 6.3 | 7.40 | 2.3   |
| 06/22/95 | 14.4        | 10.2 | 11.97 | 4.2   | 8.4         | 6.9 | 7.55 | 1.5   |
| 06/23/95 | 13.9        | 9.6  | 11.42 | 4.3   | 8.0         | 6.3 | 7.08 | 1.7   |
| 06/24/95 | 13.0        | 9.8  | 11.09 | 3.2   | 7.5         | 6.3 | 6.81 | 1.2   |
| 06/25/95 | 11.9        | 8.0  | 9.94  | 3.9   | 7.3         | 5.2 | 6.17 | 2.1   |
| 06/26/95 | 13.9        | 7.5  | 10.58 | 6.4   | 8.2         | 5.0 | 6.41 | 3.2   |
| 06/27/95 | 15.3        | 8.4  | 11.66 | 6.9   | 9.0         | 5.6 | 7.11 | 3.4   |
| 06/28/95 | 15.6        | 9.4  | 12.52 | 6.2   | 9.6         | 6.3 | 7.81 | 3.3   |
| 06/29/95 | 15.6        | 10.2 | 12.91 | 5.4   | 9.6         | 6.9 | 8.20 | 2.7   |
| 06/30/95 | 16.8        | 10.9 | 13.76 | 5.9   | 10.7        | 7.5 | 8.71 | 3.2   |
| 07/01/95 | 13.9        | 11.9 | 12.90 | 2.0   | 8.8         | 8.0 | 8.41 | 0.8   |
| 07/02/95 | 14.6        | 11.5 | 12.79 | 3.1   | 9.4         | 7.8 | 8.44 | 1.6   |
| 07/03/95 | 13.9        | 11.3 | 12.74 | 2.6   | 9.6         | 7.8 | 8.55 | 1.8   |
| 07/04/95 | 14.2        | 11.3 | 12.49 | 2.9   | 9.0         | 7.5 | 8.19 | 1.5   |
| 07/05/95 | 14.4        | 10.9 | 12.30 | 3.5   | 8.8         | 7.3 | 8.01 | 1.5   |
| 07/06/95 | 15.3        | 10.0 | 12.23 | 5.3   | 9.4         | 6.5 | 7.80 | 2.9   |
| 07/07/95 | 15.6        | 10.4 | 12.58 | 5.2   | 9.0         | 6.7 | 7.92 | 2.3   |
| 07/08/95 | 14.2        | 11.9 | 12.68 | 2.3   | 9.2         | 8.0 | 8.36 | 1.2   |
| 07/09/95 | 14.4        | 10.9 | 12.54 | 3.5   | 9.6         | 7.7 | 8.52 | 1.9   |
| 07/10/95 | 12.4        | 9.6  | 11.02 | 2.8   | 8.6         | 8.0 | 8.40 | 0.6   |
| 07/11/95 | 10.2        | 9.2  | 9.71  | 1.0   | 8.2         | 7.8 | 8.00 | 0.4   |
| 07/12/95 | 11.1        | 8.6  | 9.96  | 2.5   | 8.6         | 7.5 | 7.98 | 1.1   |
| 07/13/95 | 11.7        | 9.4  | 10.33 | 2.3   | 8.2         | 7.7 | 7.86 | 0.5   |
| 07/14/95 | 12.6        | 9.4  | 10.76 | 3.2   | 8.2         | 7.5 | 7.76 | 0.7   |
| 07/15/95 | 14.2        | 8.8  | 11.11 | 5.4   | 8.8         | 6.7 | 7.76 | 2.1   |
| 07/16/95 | 13.5        | 10.0 | 11.71 | 3.5   | 9.0         | 7.5 | 8.17 | 1.5   |
| 07/17/95 | 14.4        | 10.0 | 12.06 | 4.4   | 9.4         | 7.7 | 8.39 | 1.7   |
| 07/18/95 | 15.8        | 10.0 | 12.78 | 5.8   | 9.8         | 7.7 | 8.60 | 2.1   |
| 07/19/95 | 16.6        | 10.7 | 13.58 | 5.9   | 10.2        | 8.0 | 9.00 | 2.2   |
| 07/20/95 | 16.6        | 11.9 | 14.14 | 4.7   | 10.0        | 8.6 | 9.24 | 1.4   |
| 07/21/95 | 16.6        | 12.1 | 14.24 | 4.5   | 10.2        | 8.6 | 9.34 | 1.6   |
| 07/22/95 | 15.6        | 12.1 | 13.93 | 3.5   | 10.4        | 8.8 | 9.58 | 1.6   |
| 07/23/95 | 15.3        | 12.4 | 13.65 | 2.9   | 9.8         | 8.6 | 9.20 | 1.2   |
| 07/24/95 | 13.0        | 12.1 | 12.45 | 0.9   | 9.4         | 8.4 | 8.63 | 1.0   |
| 07/25/95 | 15.3        | 11.5 | 13.16 | 3.8   | 10.2        | 8.6 | 9.15 | 1.6   |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS AAA and BBB in 1995

| DATE     | STATION AAA |      |       |       | STATION BBB |     |      |       |
|----------|-------------|------|-------|-------|-------------|-----|------|-------|
|          | MAX         | MIN  | MEAN  | RANGE | MAX         | MIN | MEAN | RANGE |
| 07/26/95 | 13.5        | 11.3 | 12.31 | 2.2   | 9.6         | 8.2 | 8.82 | 1.4   |
| 07/27/95 | 12.8        | 9.8  | 11.34 | 3.0   | 8.8         | 7.1 | 7.91 | 1.7   |
| 07/28/95 | 12.4        | 9.0  | 10.92 | 3.4   | 7.8         | 6.3 | 7.30 | 1.5   |
| 07/29/95 | 14.2        | 9.8  | 11.75 | 4.4   | 9.4         | 6.9 | 7.94 | 2.5   |
| 07/30/95 | 12.4        | 10.4 | 11.53 | 2.0   | 8.4         | 7.3 | 7.91 | 1.1   |
| 07/31/95 | 13.7        | 10.7 | 12.05 | 3.0   | 8.8         | 7.7 | 8.14 | 1.1   |
| 08/01/95 | 13.7        | 11.1 | 12.38 | 2.6   | 9.4         | 7.8 | 8.45 | 1.6   |
| 08/02/95 | 12.8        | 10.9 | 11.93 | 1.9   | 9.0         | 8.0 | 8.50 | 1.0   |
| 08/03/95 | 14.2        | 10.7 | 12.40 | 3.5   | 9.6         | 8.2 | 8.86 | 1.4   |
| 08/04/95 | 14.6        | 12.1 | 13.08 | 2.5   | 10.4        | 8.6 | 9.35 | 1.8   |
| 08/05/95 | 13.7        | 10.7 | 11.90 | 3.0   | 9.0         | 7.5 | 8.27 | 1.5   |
| 08/06/95 | 13.9        | 9.8  | 11.54 | 4.1   | 9.4         | 6.9 | 7.90 | 2.5   |
| 08/07/95 | 14.2        | 10.0 | 11.61 | 4.2   | 9.0         | 7.1 | 8.02 | 1.9   |
| 08/08/95 | 14.2        | 10.0 | 11.72 | 4.2   | 8.8         | 7.1 | 7.92 | 1.7   |
| 08/09/95 | 13.0        | 10.4 | 11.90 | 2.6   | 9.0         | 7.5 | 8.33 | 1.5   |
| 08/10/95 | 13.7        | 11.1 | 11.97 | 2.6   | 9.2         | 8.2 | 8.59 | 1.0   |
| 08/11/95 | 14.2        | 10.9 | 12.34 | 3.3   | 10.0        | 8.0 | 8.80 | 2.0   |
| 08/12/95 | 13.7        | 9.4  | 11.48 | 4.3   | 9.6         | 6.7 | 8.09 | 2.9   |
| 08/13/95 | 11.9        | 10.2 | 11.06 | 1.7   | 9.2         | 7.5 | 8.12 | 1.7   |
| 08/14/95 | 12.8        | 10.4 | 11.26 | 2.4   | 8.8         | 7.7 | 8.21 | 1.1   |
| 08/15/95 | 11.3        | 8.6  | 9.96  | 2.7   | 7.8         | 6.3 | 7.11 | 1.5   |
| 08/16/95 | 11.3        | 7.8  | 9.75  | 3.5   | 7.8         | 6.1 | 7.08 | 1.7   |
| 08/17/95 | 12.1        | 8.4  | 10.23 | 3.7   | 8.4         | 6.3 | 7.26 | 2.1   |
| 08/18/95 | 11.7        | 9.2  | 10.44 | 2.5   | 8.4         | 6.9 | 7.70 | 1.5   |
| 08/19/95 | 11.1        | 9.2  | 10.12 | 1.9   | 8.4         | 6.9 | 7.62 | 1.5   |
| 08/20/95 | 10.9        | 9.0  | 9.95  | 1.9   | 7.8         | 7.1 | 7.58 | 0.7   |
| 08/21/95 | 11.3        | 9.6  | 10.31 | 1.7   | 8.8         | 7.7 | 8.17 | 1.1   |
| 08/22/95 | 11.5        | 9.0  | 10.03 | 2.5   | 8.6         | 7.5 | 8.14 | 1.1   |
| 08/23/95 | 11.3        | 7.8  | 9.45  | 3.5   | 8.4         | 6.7 | 7.66 | 1.7   |
| 08/24/95 | 10.2        | 8.0  | 9.26  | 2.2   | 8.8         | 6.7 | 7.66 | 2.1   |
| 08/25/95 | 10.9        | 7.8  | 9.36  | 3.1   | 8.2         | 6.5 | 7.38 | 1.7   |
| 08/26/95 | 10.9        | 7.5  | 9.17  | 3.4   | 7.8         | 6.3 | 7.15 | 1.5   |
| 08/27/95 | 10.7        | 7.1  | 8.99  | 3.6   | 7.8         | 6.0 | 7.00 | 1.8   |
| 08/28/95 | 11.3        | 7.7  | 9.28  | 3.6   | 8.0         | 6.0 | 7.13 | 2.0   |
| 08/29/95 | 11.5        | 7.5  | 9.23  | 4.0   | 8.2         | 6.0 | 7.16 | 2.2   |
| 08/30/95 | 11.7        | 7.3  | 9.22  | 4.4   | 8.0         | 6.0 | 6.94 | 2.0   |
| 08/31/95 | 10.4        | 7.5  | 9.04  | 2.9   | 8.2         | 5.8 | 7.09 | 2.4   |
| 09/01/95 | 11.7        | 7.7  | 9.63  | 4.0   | 8.4         | 6.0 | 7.16 | 2.4   |
| 09/02/95 | 12.1        | 9.2  | 10.68 | 2.9   | 8.8         | 7.5 | 8    |       |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS AAA and BBB in 1995

|          | STATION AAA |         |          |         | STATION BBB |         |         |         |
|----------|-------------|---------|----------|---------|-------------|---------|---------|---------|
| DATE     | MAX         | MIN     | MEAN     | RANGE   | MAX         | MIN     | MEAN    | RANGE   |
| 09/04/95 | 13.9        | 9.2     | 11.10    | 4.7     | 9.4         | 7.3     | 8.35    | 2.1     |
| 09/05/95 | 13.0        | 10.0    | 11.46    | 3.0     | 9.8         | 8.0     | 8.84    | 1.8     |
| 09/06/95 | 13.7        | 10.9    | 11.85    | 2.8     | 10.7        | 8.6     | 9.46    | 2.1     |
| 09/07/95 | 13.9        | 9.2     | 11.19    | 4.7     | 9.8         | 7.3     | 8.59    | 2.5     |
| 09/08/95 | 13.7        | 9.2     | 10.96    | 4.5     | 9.6         | 7.5     | 8.62    | 2.1     |
| 09/09/95 | 11.7        | 8.8     | 10.39    | 2.9     | 9.4         | 7.1     | 8.41    | 2.3     |
| 09/10/95 | 13.5        | 10.0    | 11.25    | 3.5     | 10.0        | 8.4     | 9.00    | 1.6     |
| 09/11/95 | 12.6        | 10.9    | 11.46    | 1.7     | 10.4        | 8.6     | 9.40    | 1.8     |
| 09/12/95 | 13.5        | 10.0    | 11.33    | 3.5     | 10.2        | 8.0     | 9.28    | 2.2     |
| 09/13/95 | 12.6        | 8.4     | 10.22    | 4.2     | 9.6         | 6.3     | 7.87    | 3.3     |
| 09/14/95 | 12.6        | 8.4     | 10.09    | 4.2     | 9.6         | 6.3     | 7.74    | 3.3     |
| 09/15/95 | 11.9        | 8.0     | 9.65     | 3.9     | 8.6         | 6.0     | 7.28    | 2.6     |
| 09/16/95 | 11.5        | 7.5     | 9.19     | 4.0     | 9.0         | 5.4     | 6.87    | 3.6     |
| 09/17/95 | 11.1        | 7.3     | 9.01     | 3.8     | 8.4         | 5.8     | 7.05    | 2.6     |
| 09/18/95 | 9.0         | 8.0     | 8.70     | 1.0     | 7.7         | 6.1     | 6.91    | 1.6     |
| 09/19/95 | 10.4        | 7.1     | 8.28     | 3.3     | 7.8         | 5.2     | 6.26    | 2.6     |
| 09/20/95 | 9.2         | 5.6     | 7.25     | 3.6     | 6.3         | 3.8     | 5.07    | 2.5     |
| 09/21/95 | 9.8         | 6.0     | 7.57     | 3.8     | 6.9         | 4.3     | 5.51    | 2.6     |
| 09/22/95 | 9.6         | 5.8     | 7.31     | 3.8     | 6.5         | 4.1     | 5.32    | 2.4     |
| 09/23/95 | 9.8         | 5.8     | 7.44     | 4.0     | 7.1         | 4.5     | 5.75    | 2.6     |
| 09/24/95 | 9.8         | 6.1     | 7.63     | 3.7     | 7.5         | 5.4     | 6.42    | 2.1     |
| 09/25/95 | 9.4         | 6.1     | 7.62     | 3.3     | 7.7         | 5.2     | 6.46    | 2.5     |
| 09/26/95 | 9.4         | 7.8     | 8.31     | 1.6     | 8.0         | 7.1     | 7.56    | 0.9     |
| 09/27/95 | 9.2         | 7.3     | 8.24     | 1.9     | 8.0         | 5.4     | 6.58    | 2.6     |
| 09/28/95 | 10.4        | 8.0     | 8.90     | 2.4     | 8.4         | 6.9     | 7.51    | 1.5     |
| 09/29/95 | 9.2         | 7.3     | 8.36     | 1.9     | 7.8         | 5.8     | 6.99    | 2.0     |
| 09/30/95 | 9.0         | 6.5     | 7.87     | 2.5     | 7.3         | 4.9     | 6.34    | 2.4     |
| 10/01/95 |             |         |          |         | 4.3         |         |         |         |
| COUNT    | 107         | 106     | 106      | 106     | 107         | 107     | 106     | 106     |
| MAX      | 16.8        | 12.4    | 14.24375 | 6.9     | 10.7        | 8.8     | 9.57917 | 3.6     |
| MIN      | 9.0         | 5.6     | 7.252083 | 0.9     | 6.3         | 3.8     | 5.07083 | 0.4     |
| MEAN     | 12.7626     | 9.29528 | 10.87123 | 3.48302 | 8.7561      | 6.88598 | 7.79093 | 1.86321 |
| ST.DEV   | 1.94256     | 1.62041 | 1.657872 | 1.23788 | 0.9536      | 1.12768 | 0.94016 | 0.67451 |
| VARIANCE | 3.77356     | 2.62573 | 2.74854  | 1.53235 | 0.9094      | 1.27167 | 0.88389 | 0.45497 |

## GATES CREEK WATER TEMPERATURE (°C) at STATION CCC in 1993

| DATE     | WEST |      |       |       | EAST |      |       |       |
|----------|------|------|-------|-------|------|------|-------|-------|
|          | MAX  | MIN  | MEAN  | RANGE | MAX  | MIN  | MEAN  | RANGE |
| 07/28/93 | 10.0 |      |       |       | 11.3 |      |       |       |
| 07/29/93 | 9.6  | 8.6  | 9.15  | 1.00  | 10.9 | 9.0  | 9.86  | 1.90  |
| 07/30/93 | 9.0  | 8.2  | 8.63  | 0.80  | 9.4  | 8.6  | 8.95  | 0.80  |
| 07/31/93 | 9.8  | 8.2  | 9.01  | 1.60  | 10.9 | 8.4  | 9.57  | 2.50  |
| 08/01/93 | 10.7 | 9.0  | 9.73  | 1.70  | 11.7 | 9.4  | 10.60 | 2.30  |
| 08/02/93 | 11.5 | 9.0  | 10.11 | 2.50  | 13.0 | 9.2  | 11.22 | 3.80  |
| 08/03/93 | 11.9 | 9.2  | 10.38 | 2.70  | 13.7 | 9.6  | 11.85 | 4.10  |
| 08/04/93 | 12.4 | 9.6  | 10.81 | 2.80  | 14.2 | 10.4 | 12.46 | 3.80  |
| 08/05/93 | 12.8 | 10.0 | 11.17 | 2.80  | 14.9 | 11.1 | 13.04 | 3.80  |
| 08/06/93 | 12.1 | 10.2 | 11.01 | 1.90  | 13.9 | 11.7 | 12.80 | 2.20  |
| 08/07/93 | 11.5 | 9.8  | 10.71 | 1.70  | 13.5 | 10.4 | 12.11 | 3.10  |
| 08/08/93 | 10.9 | 10.2 | 10.61 | 0.70  | 12.1 | 11.1 | 11.82 | 1.00  |
| 08/09/93 | 10.7 | 9.6  | 10.16 | 1.10  | 11.9 | 10.4 | 11.17 | 1.50  |
| 08/10/93 | 10.7 | 8.8  | 9.60  | 1.90  | 12.1 | 9.0  | 10.74 | 3.10  |
| 08/11/93 | 10.7 | 8.2  | 9.46  | 2.50  | 11.9 | 8.6  | 10.51 | 3.30  |
| 08/12/93 | 10.4 | 9.2  | 9.83  | 1.20  | 12.1 | 10.0 | 11.06 | 2.10  |
| 08/13/93 | 10.4 | 9.0  | 9.66  | 1.40  | 11.7 | 9.8  | 10.84 | 1.90  |
| 08/14/93 | 11.1 | 9.0  | 9.87  | 2.10  | 12.8 | 9.6  | 11.32 | 3.20  |
| 08/15/93 | 11.3 | 8.6  | 9.78  | 2.70  | 13.0 | 9.2  | 11.28 | 3.80  |
| 08/16/93 | 11.7 | 9.2  | 10.19 | 2.50  | 13.7 | 10.0 | 11.92 | 3.70  |
| 08/17/93 | 11.7 | 9.6  | 10.42 | 2.10  | 13.9 | 10.9 | 12.34 | 3.00  |
| 08/18/93 | 11.5 | 9.4  | 10.34 | 2.10  | 13.5 | 10.7 | 12.14 | 2.80  |
| 08/19/93 | 11.7 | 9.4  | 10.35 | 2.30  | 13.5 | 10.0 | 11.89 | 3.50  |
| 08/20/93 | 11.1 | 9.4  | 10.32 | 1.70  | 13.0 | 10.2 | 11.82 | 2.80  |
| 08/21/93 | 11.7 | 10.0 | 10.64 | 1.70  | 13.7 | 11.1 | 12.24 | 2.60  |
| 08/22/93 | 10.7 | 9.8  | 10.23 | 0.90  | 12.1 | 10.9 | 11.54 | 1.20  |
| 08/23/93 | 10.2 | 9.2  | 9.88  | 1.00  | 11.7 | 10.0 | 11.03 | 1.70  |
| 08/24/93 | 9.4  | 8.8  | 9.07  | 0.60  | 10.0 | 9.4  | 9.69  | 0.60  |
| 08/25/93 | 9.6  | 8.8  | 9.12  | 0.80  | 10.4 | 9.2  | 9.77  | 1.20  |
| 08/26/93 | 9.2  | 8.2  | 8.75  | 1.00  | 10.0 | 8.6  | 9.36  | 1.40  |
| 08/27/93 | 9.6  | 8.0  | 8.64  | 1.60  | 10.4 | 8.0  | 9.23  | 2.40  |
| 08/28/93 | 9.2  | 7.5  | 8.36  | 1.70  | 10.7 | 7.5  | 9.10  | 3.20  |
| 08/29/93 | 9.6  | 7.3  | 8.25  | 2.30  | 10.4 | 7.3  | 8.99  | 3.10  |
| 08/30/93 | 9.8  | 7.5  | 8.49  | 2.30  | 11.1 | 7.5  | 9.39  | 3.60  |
| 08/31/93 | 10.2 | 8.4  | 9.16  | 1.80  | 12.1 | 9.2  | 10.67 | 2.90  |
| 09/01/93 | 10.7 | 8.6  | 9.36  | 2.10  | 11.7 | 9.2  | 10.65 | 2.50  |
| 09/02/93 | 10.9 | 8.6  | 9.48  | 2.30  | 11.9 | 9.0  | 10.64 | 2.90  |
| 09/03/93 | 10.9 | 8.6  | 9.47  | 2.30  | 11.7 | 9.0  | 10.50 | 2.70  |
| 09/04/93 | 10.7 | 8.4  | 9.21  | 2.30  | 11.1 | 8.4  | 9.82  | 2.70  |
| 09/05/93 | 10.7 | 8.2  | 9.14  | 2.50  | 10.9 | 8.0  | 9.57  | 2.90  |
| 09/06/93 | 10.4 | 8.2  | 9.17  | 2.20  | 10.9 | 8.2  | 9.61  | 2.70  |

## GATES CREEK WATER TEMPERATURE (°C) at STATION CCC in 1993

| DATE     | WEST    |         |         |         | EAST   |         |         |         |
|----------|---------|---------|---------|---------|--------|---------|---------|---------|
|          | MAX     | MIN     | MEAN    | RANGE   | MAX    | MIN     | MEAN    | RANGE   |
| 09/07/93 | 10.7    | 8.4     | 9.24    | 2.30    | 11.1   | 8.2     | 9.69    | 2.90    |
| 09/08/93 | 10.7    | 8.4     | 9.21    | 2.30    | 10.7   | 8.4     | 9.52    | 2.30    |
| 09/09/93 | 10.2    | 8.0     | 8.95    | 2.20    | 10.2   | 7.5     | 8.87    | 2.70    |
| 09/10/93 | 10.0    | 8.4     | 9.05    | 1.60    | 10.2   | 8.2     | 9.28    | 2.00    |
| 09/11/93 | 9.6     | 8.0     | 8.68    | 1.60    | 9.6    | 7.7     | 8.60    | 1.90    |
| 09/12/93 | 9.4     | 7.3     | 8.15    | 2.10    | 8.6    | 5.8     | 7.27    | 2.80    |
| 09/13/93 | 9.2     | 8.0     | 8.49    | 1.20    | 9.4    | 7.5     | 8.30    | 1.90    |
| 09/14/93 | 9.0     | 7.7     | 8.27    | 1.30    | 9.0    | 7.1     | 8.02    | 1.90    |
| 09/15/93 | 9.2     | 7.1     | 7.99    | 2.10    | 8.6    | 6.1     | 7.37    | 2.50    |
| 09/16/93 | 8.8     | 6.7     | 7.61    | 2.10    | 7.8    | 5.0     | 6.55    | 2.80    |
| 09/17/93 | 8.6     | 6.7     | 7.59    | 1.90    | 7.8    | 5.2     | 6.55    | 2.60    |
| 09/18/93 | 8.0     | 6.5     | 7.34    | 1.50    | 6.9    | 5.0     | 6.25    | 1.90    |
| 09/19/93 | 7.5     | 6.0     | 6.59    | 1.50    | 5.8    | 4.0     | 4.80    | 1.80    |
| 09/20/93 | 7.3     | 5.2     | 6.21    | 2.10    | 5.0    | 2.6     | 3.87    | 2.40    |
| 09/21/93 | 7.5     | 5.4     | 6.33    | 2.10    | 5.4    | 2.7     | 4.08    | 2.70    |
| 09/22/93 | 7.5     | 5.8     | 6.63    | 1.70    | 5.8    | 3.4     | 4.80    | 2.40    |
| 09/23/93 | 7.7     | 6.7     | 7.21    | 1.00    | 7.1    | 5.2     | 6.23    | 1.90    |
| 09/24/93 | 7.7     | 6.7     | 7.26    | 1.00    | 7.3    | 6.1     | 6.68    | 1.20    |
| 09/25/93 | 7.5     | 6.1     | 6.84    | 1.40    | 6.9    | 4.7     | 5.93    | 2.20    |
| 09/26/93 | 8.2     | 6.9     | 7.48    | 1.30    | 8.4    | 6.7     | 7.33    | 1.70    |
| 09/27/93 | 7.5     | 6.0     | 6.66    | 1.50    | 6.7    | 4.7     | 5.73    | 2.00    |
| 09/28/93 |         | 5.6     |         |         |        | 3.8     |         |         |
| COUNT    | 62      | 62      | 61      | 61      | 62     | 62      | 61      | 61      |
| MAX      | 12.8    | 10.2    | 11.171  | 2.8     | 14.9   | 11.7    | 13.036  | 4.1     |
| MIN      | 7.3     | 5.2     | 6.2125  | 0.6     | 5      | 2.6     | 3.86563 | 0.6     |
| MEAN     | 10.0081 | 8.17903 | 9.00784 | 1.78689 | 10.673 | 8.11935 | 9.48946 | 2.47213 |
| ST.DEV.  | 1.37891 | 1.26786 | 1.25495 | 0.5713  | 2.4077 | 2.2457  | 2.29116 | 0.79303 |
| VARIANCE | 1.90139 | 1.60746 | 1.5749  | 0.32639 | 5.7968 | 5.04317 | 5.24941 | 0.6289  |

## GATES CREEK WATER TEMPERATURE (°C) at STATION CCC in 1994

| DATE     | WEST |     |       |       | EAST |      |       |       |
|----------|------|-----|-------|-------|------|------|-------|-------|
|          | MAX  | MIN | MEAN  | RANGE | MAX  | MIN  | MEAN  | RANGE |
| 06/09/94 | 8.2  |     |       |       | 9.4  |      |       |       |
| 06/10/94 | 8.2  | 5.8 | 7.04  | 2.4   | 9.2  | 6.3  | 7.86  | 2.9   |
| 06/11/94 | 9.0  | 6.9 | 7.70  | 2.1   | 10.2 | 7.5  | 8.63  | 2.7   |
| 06/12/94 | 7.1  | 6.0 | 6.76  | 1.1   | 8.4  | 6.7  | 7.46  | 1.7   |
| 06/13/94 | 7.7  | 6.9 | 7.29  | 0.8   | 7.8  | 7.1  | 7.48  | 0.7   |
| 06/14/94 | 7.1  | 6.1 | 6.66  | 1.0   | 7.8  | 6.5  | 7.11  | 1.3   |
| 06/15/94 | 7.5  | 6.5 | 7.10  | 1.0   | 8.0  | 6.7  | 7.34  | 1.3   |
| 06/16/94 | 7.8  | 6.5 | 7.34  | 1.3   | 8.4  | 6.9  | 7.61  | 1.5   |
| 06/17/94 | 8.4  | 6.5 | 7.43  | 1.9   | 8.6  | 6.7  | 7.72  | 1.9   |
| 06/18/94 | 8.4  | 6.3 | 7.41  | 2.1   | 9.4  | 6.5  | 8.01  | 2.9   |
| 06/19/94 | 8.8  | 6.3 | 7.58  | 2.5   | 9.8  | 6.7  | 8.33  | 3.1   |
| 06/20/94 | 9.4  | 6.3 | 7.76  | 3.1   | 10.9 | 6.9  | 9.01  | 4.0   |
| 06/21/94 | 10.0 | 6.7 | 8.30  | 3.3   | 11.7 | 7.3  | 9.64  | 4.4   |
| 06/22/94 | 10.9 | 7.5 | 9.03  | 3.4   | 12.6 | 8.2  | 10.55 | 4.4   |
| 06/23/94 | 10.4 | 8.6 | 9.48  | 1.8   | 12.6 | 9.6  | 11.17 | 3.0   |
| 06/24/94 | 11.5 | 8.6 | 9.76  | 2.9   | 13.5 | 9.6  | 11.69 | 3.9   |
| 06/25/94 | 11.5 | 8.4 | 9.81  | 3.1   | 13.7 | 9.4  | 11.75 | 4.3   |
| 06/26/94 | 11.5 | 8.6 | 9.82  | 2.9   | 13.7 | 10.0 | 11.89 | 3.7   |
| 06/27/94 | 9.8  | 8.4 | 9.04  | 1.4   | 11.9 | 9.8  | 10.70 | 2.1   |
| 06/28/94 | 8.6  | 7.7 | 8.20  | 0.9   | 9.8  | 8.6  | 9.31  | 1.2   |
| 06/29/94 | 9.0  | 7.5 | 8.21  | 1.5   | 10.4 | 8.2  | 9.32  | 2.2   |
| 06/30/94 | 8.6  | 7.5 | 8.00  | 1.1   | 9.4  | 8.4  | 8.98  | 1.0   |
| 07/01/94 | 9.2  | 7.7 | 8.37  | 1.5   | 10.0 | 8.2  | 9.13  | 1.8   |
| 07/02/94 | 8.4  | 8.0 | 8.10  | 0.4   | 9.0  | 8.2  | 8.52  | 0.8   |
| 07/03/94 | 9.2  | 7.5 | 8.28  | 1.7   | 10.0 | 7.8  | 8.90  | 2.2   |
| 07/04/94 | 8.4  | 7.8 | 8.12  | 0.6   | 9.2  | 8.2  | 8.75  | 1.0   |
| 07/05/94 | 9.6  | 7.3 | 8.52  | 2.3   | 11.1 | 7.5  | 9.37  | 3.6   |
| 07/06/94 | 10.0 | 8.2 | 9.09  | 1.8   | 11.1 | 8.8  | 9.92  | 2.3   |
| 07/07/94 | 10.7 | 8.4 | 9.31  | 2.3   | 12.1 | 9.2  | 10.57 | 2.9   |
| 07/08/94 | 10.2 | 7.8 | 8.86  | 2.4   | 11.7 | 8.6  | 10.26 | 3.1   |
| 07/09/94 | 10.4 | 7.5 | 8.69  | 2.9   | 11.9 | 8.0  | 10.11 | 3.9   |
| 07/10/94 | 10.7 | 7.7 | 8.99  | 3.0   | 12.4 | 8.4  | 10.62 | 4.0   |
| 07/11/94 | 11.1 | 7.8 | 9.33  | 3.3   | 13.0 | 8.8  | 11.24 | 4.2   |
| 07/12/94 | 11.7 | 8.4 | 9.85  | 3.3   | 13.7 | 9.8  | 11.85 | 3.9   |
| 07/13/94 | 11.9 | 9.2 | 10.18 | 2.7   | 13.5 | 10.9 | 12.20 | 2.6   |
| 07/14/94 | 11.7 | 9.4 | 10.35 | 2.3   | 13.3 | 10.9 | 12.25 | 2.4   |
| 07/15/94 | 12.1 | 9.4 | 10.60 | 2.7   | 13.9 | 10.4 | 12.47 | 3.5   |
| 07/16/94 | 11.3 | 9.8 | 10.51 | 1.5   | 13.3 | 11.5 | 12.41 | 1.8   |
| 07/17/94 | 11.1 | 9.8 | 10.31 | 1.3   | 12.6 | 11.3 | 11.93 | 1.3   |
| 07/18/94 | 11.5 | 9.6 | 10.28 | 1.9   | 12.8 | 10.9 | 11.80 | 1.9   |
| 07/19/94 | 12.4 | 9.2 | 10.64 | 3.2   | 14.2 | 10.2 | 12.34 | 4.0   |

## GATES CREEK WATER TEMPERATURE (°C) at STATION CCC in 1994

| DATE     | WEST |      |       |       | EAST |      |       |       |
|----------|------|------|-------|-------|------|------|-------|-------|
|          | MAX  | MIN  | MEAN  | RANGE | MAX  | MIN  | MEAN  | RANGE |
| 07/20/94 | 12.8 | 9.6  | 11.01 | 3.2   | 15.3 | 11.1 | 13.18 | 4.2   |
| 07/21/94 | 12.8 | 9.8  | 11.15 | 3.0   | 15.1 | 11.1 | 13.29 | 4.0   |
| 07/22/94 | 13.0 | 9.4  | 11.05 | 3.6   | 15.3 | 10.7 | 13.14 | 4.6   |
| 07/23/94 | 13.5 | 10.0 | 11.58 | 3.5   | 16.1 | 11.5 | 13.80 | 4.6   |
| 07/24/94 | 14.4 | 11.1 | 12.34 | 3.3   | 16.6 | 12.8 | 14.69 | 3.8   |
| 07/25/94 | 13.5 | 10.2 | 11.70 | 3.3   | 15.3 | 12.8 | 13.71 | 2.5   |
| 07/26/94 | 13.5 | 10.7 | 11.71 | 2.8   | 15.1 | 12.1 | 13.50 | 3.0   |
| 07/27/94 | 12.6 | 10.4 | 11.52 | 2.2   | 14.9 | 11.5 | 13.40 | 3.4   |
| 07/28/94 | 13.0 | 10.9 | 11.87 | 2.1   | 15.8 | 12.6 | 14.11 | 3.2   |
| 07/29/94 | 12.6 | 10.4 | 11.42 | 2.2   | 14.2 | 12.1 | 13.28 | 2.1   |
| 07/30/94 | 11.9 | 9.6  | 10.58 | 2.3   | 13.0 | 10.9 | 12.10 | 2.1   |
| 07/31/94 | 11.5 | 8.2  | 10.05 | 3.3   | 12.4 | 9.6  | 11.27 | 2.8   |
| 08/01/94 | 13.0 | 9.6  | 11.20 | 3.4   | 13.7 | 10.9 | 12.39 | 2.8   |
| 08/02/94 | 14.6 | 9.8  | 11.87 | 4.8   | 15.3 | 11.5 | 13.40 | 3.8   |
| 08/03/94 | 13.0 | 10.2 | 11.65 | 2.8   | 13.9 | 12.4 | 13.23 | 1.5   |
| 08/04/94 | 14.2 | 10.2 | 11.83 | 4.0   | 15.1 | 12.1 | 13.46 | 3.0   |
| 08/05/94 | 12.4 | 9.0  | 10.73 | 3.4   | 13.3 | 11.1 | 12.31 | 2.2   |
| 08/06/94 | 10.9 | 9.8  | 10.41 | 1.1   | 12.8 | 10.9 | 11.96 | 1.9   |
| 08/07/94 | 12.1 | 10.2 | 10.94 | 1.9   | 13.9 | 11.7 | 12.78 | 2.2   |
| 08/08/94 | 11.9 | 9.8  | 10.98 | 2.1   | 13.9 | 10.9 | 12.65 | 3.0   |
| 08/09/94 | 11.3 | 10.4 | 10.99 | 0.9   | 13.3 | 11.9 | 12.61 | 1.4   |
| 08/10/94 | 12.6 | 9.6  | 10.88 | 3.0   | 13.7 | 10.2 | 12.09 | 3.5   |
| 08/11/94 | 12.8 | 9.8  | 11.08 | 3.0   | 14.2 | 10.2 | 12.23 | 4.0   |
| 08/12/94 | 13.0 | 10.2 | 11.45 | 2.8   | 14.4 | 11.1 | 12.80 | 3.3   |
| 08/13/94 | 13.0 | 10.7 | 11.61 | 2.3   | 14.4 | 11.3 | 12.97 | 3.1   |
| 08/14/94 | 13.5 | 11.1 | 11.78 | 2.4   | 14.6 | 12.1 | 13.22 | 2.5   |
| 08/15/94 | 12.4 | 10.4 | 11.18 | 2.0   | 13.3 | 10.9 | 12.18 | 2.4   |
| 08/16/94 | 12.6 | 10.2 | 10.97 | 2.4   | 13.0 | 10.4 | 11.72 | 2.6   |
| 08/17/94 | 13.0 | 10.2 | 11.19 | 2.8   | 13.7 | 10.4 | 12.02 | 3.3   |
| 08/18/94 | 13.0 | 10.2 | 11.27 | 2.8   | 13.9 | 10.7 | 12.29 | 3.2   |
| 08/19/94 | 13.0 | 10.2 | 11.31 | 2.8   | 13.9 | 10.7 | 12.25 | 3.2   |
| 08/20/94 | 12.4 | 10.2 | 11.06 | 2.2   | 12.8 | 10.2 | 11.68 | 2.6   |
| 08/21/94 | 11.9 | 10.2 | 11.03 | 1.7   | 12.6 | 10.4 | 11.54 | 2.2   |
| 08/22/94 | 11.9 | 10.0 | 10.71 | 1.9   | 12.1 | 10.2 | 11.11 | 1.9   |
| 08/23/94 | 11.3 | 9.2  | 10.04 | 2.1   | 10.9 | 8.6  | 9.91  | 2.3   |
| 08/24/94 | 11.3 | 9.0  | 9.90  | 2.3   | 11.1 | 8.2  | 9.70  | 2.9   |
| 08/25/94 | 11.3 | 8.4  | 9.58  | 2.9   | 10.7 | 7.3  | 9.03  | 3.4   |
| 08/26/94 | 11.3 | 8.4  | 9.45  | 2.9   | 10.4 | 7.1  | 8.80  | 3.3   |
| 08/27/94 | 11.3 | 8.4  | 9.53  | 2.9   | 10.7 | 7.1  | 8.97  | 3.6   |
| 08/28/94 | 11.1 | 8.6  | 9.67  | 2.5   | 10.9 | 7.7  | 9.36  | 3.2   |
| 08/29/94 | 10.9 | 9.4  | 9.98  | 1.5   | 11.5 | 9.4  | 10.32 | 2.1   |

## GATES CREEK WATER TEMPERATURE (°C) at STATION CCC in 1994

| DATE     | WEST    |         |         |         | EAST   |         |         |         |
|----------|---------|---------|---------|---------|--------|---------|---------|---------|
|          | MAX     | MIN     | MEAN    | RANGE   | MAX    | MIN     | MEAN    | RANGE   |
| 08/30/94 | 10.9    | 8.8     | 9.70    | 2.1     | 11.1   | 8.2     | 9.83    | 2.9     |
| 08/31/94 | 10.4    | 9.2     | 9.70    | 1.2     | 11.1   | 9.2     | 10.11   | 1.9     |
| 09/01/94 | 10.4    | 8.6     | 9.30    | 1.8     | 10.4   | 8.0     | 9.23    | 2.4     |
| 09/02/94 | 9.4     | 8.8     | 9.05    | 0.6     | 9.2    | 8.4     | 8.76    | 0.8     |
| 09/03/94 | 9.8     | 8.6     | 9.09    | 1.2     | 9.6    | 8.2     | 8.75    | 1.4     |
| 09/04/94 | 9.6     | 8.2     | 8.80    | 1.4     | 8.8    | 7.1     | 8.11    | 1.7     |
| 09/05/94 | 10.4    | 8.6     | 9.23    | 1.8     | 10.2   | 7.8     | 8.88    | 2.4     |
| 09/06/94 | 10.7    | 9.0     | 9.46    | 1.7     | 10.9   | 8.8     | 9.55    | 2.1     |
| 09/07/94 | 9.0     | 7.8     | 8.62    | 1.2     | 9.0    | 6.7     | 8.00    | 2.3     |
| 09/08/94 | 9.4     | 8.6     | 8.89    | 0.8     | 10.0   | 8.4     | 9.16    | 1.6     |
| 09/09/94 | 9.2     | 8.0     | 8.61    | 1.2     | 10.2   | 8.8     | 9.62    | 1.4     |
| 09/10/94 | 9.4     | 7.8     | 8.33    | 1.6     | 10.0   | 8.0     | 8.99    | 2.0     |
| 09/11/94 | 8.4     | 6.9     | 7.76    | 1.5     | 8.8    | 6.3     | 7.83    | 2.5     |
| 09/12/94 | 9.0     | 7.8     | 8.37    | 1.2     | 9.8    | 8.2     | 8.95    | 1.6     |
| 09/13/94 | 9.6     | 8.4     | 8.75    | 1.2     | 10.2   | 8.8     | 9.45    | 1.4     |
| 09/14/94 | 8.6     | 7.8     | 8.26    | 0.8     | 9.6    | 8.0     | 8.94    | 1.6     |
| 09/15/94 | 9.6     | 7.7     | 8.58    | 1.9     | 10.9   | 8.0     | 9.47    | 2.9     |
| 09/16/94 | 10.0    | 8.6     | 9.03    | 1.4     | 11.3   | 9.6     | 10.33   | 1.7     |
| 09/17/94 | 10.0    | 8.2     | 8.86    | 1.8     | 11.1   | 8.6     | 9.76    | 2.5     |
| 09/18/94 | 9.2     | 8.0     | 8.62    | 1.2     | 10.0   | 8.4     | 9.30    | 1.6     |
| 09/19/94 | 9.2     | 8.0     | 8.74    | 1.2     | 10.2   | 8.6     | 9.55    | 1.6     |
| 09/20/94 | 8.6     | 6.9     | 7.74    | 1.7     | 8.6    | 6.3     | 7.62    | 2.3     |
| 09/21/94 | 9.2     | 7.1     | 8.11    | 2.1     | 9.4    | 6.9     | 8.27    | 2.5     |
| 09/22/94 | 10.0    | 8.0     | 8.85    | 2.0     | 10.9   | 8.8     | 9.75    | 2.1     |
| 09/23/94 | 9.2     | 8.6     | 8.89    | 0.6     | 10.2   | 9.6     | 9.93    | 0.6     |
| 09/24/94 | 10.2    | 8.8     | 9.24    | 1.4     | 11.1   | 9.6     | 10.24   | 1.5     |
| 09/25/94 | 9.2     | 8.0     | 8.79    | 1.2     | 10.4   | 8.4     | 9.46    | 2.0     |
| 09/26/94 | 8.6     | 7.7     | 8.06    | 0.9     | 8.8    | 7.5     | 8.21    | 1.3     |
| 09/27/94 | 8.8     | 7.5     | 8.08    | 1.3     | 8.8    | 7.3     | 8.21    | 1.5     |
| 09/28/94 | 7.8     | 6.5     | 7.19    | 1.3     | 7.3    | 5.2     | 6.40    | 2.1     |
| 09/29/94 | 7.5     | 6.0     | 6.80    | 1.5     | 6.5    | 4.5     | 5.70    | 2.0     |
| 09/30/94 | 6.9     | 5.0     | 6.25    | 1.9     | 6.9    | 5.8     | 6.45    | 1.1     |
| 10/01/94 |         |         | 4.5     |         |        |         | 4.9     |         |
| COUNT    | 114     | 114     | 113     | 113     | 114    | 114     | 113     | 113     |
| MAX      | 14.6    | 11.1    | 12.3396 | 4.8     | 16.6   | 12.8    | 14.6896 | 4.6     |
| MIN      | 6.9     | 4.5     | 6.25417 | 0.4     | 6.5    | 4.5     | 5.7     | 0.6     |
| MEAN     | 10.6254 | 8.52456 | 9.48737 | 2.08673 | 11.618 | 9.07456 | 10.4199 | 2.52566 |
| ST.DEV   | 1.8239  |         |         |         |        |         |         |         |

## GATES CREEK WATER TEMPERATURE (°C) at STATION CCC in 1995

| DATE     | WEST |      |       |       | EAST |      |       |       |
|----------|------|------|-------|-------|------|------|-------|-------|
|          | MAX  | MIN  | MEAN  | RANGE | MAX  | MIN  | MEAN  | RANGE |
| 06/16/95 | 8.4  |      |       |       | 10.4 |      |       |       |
| 06/17/95 | 8.6  | 7.7  | 8.03  | 0.9   | 10.0 | 8.6  | 9.34  | 1.4   |
| 06/18/95 | 9.6  | 6.9  | 8.14  | 2.7   | 11.1 | 7.5  | 9.57  | 3.6   |
| 06/19/95 | 10.4 | 7.8  | 8.96  | 2.6   | 12.1 | 8.6  | 10.35 | 3.5   |
| 06/20/95 | 11.3 | 8.4  | 9.67  | 2.9   | 13.5 | 9.2  | 11.52 | 4.3   |
| 06/21/95 | 11.3 | 8.4  | 9.78  | 2.9   | 13.7 | 9.4  | 11.92 | 4.3   |
| 06/22/95 | 11.3 | 9.2  | 10.03 | 2.1   | 13.3 | 11.3 | 12.18 | 2.0   |
| 06/23/95 | 10.2 | 8.6  | 9.39  | 1.6   | 12.1 | 10.0 | 11.19 | 2.1   |
| 06/24/95 | 9.6  | 8.4  | 8.98  | 1.2   | 11.5 | 10.0 | 10.73 | 1.5   |
| 06/25/95 | 9.0  | 7.3  | 8.19  | 1.7   | 10.7 | 8.2  | 9.61  | 2.5   |
| 06/26/95 | 9.8  | 6.7  | 8.21  | 3.1   | 12.1 | 7.5  | 9.93  | 4.6   |
| 06/27/95 | 10.7 | 7.5  | 8.96  | 3.2   | 13.5 | 8.8  | 11.35 | 4.7   |
| 06/28/95 | 11.3 | 8.2  | 9.69  | 3.1   | 14.4 | 9.8  | 12.39 | 4.6   |
| 06/29/95 | 11.3 | 8.8  | 10.09 | 2.5   | 14.6 | 10.7 | 12.89 | 3.9   |
| 06/30/95 | 12.4 | 9.2  | 10.60 | 3.2   | 15.6 | 11.1 | 13.47 | 4.5   |
| 07/01/95 | 10.9 | 10.0 | 10.41 | 0.9   | 13.7 | 12.1 | 13.08 | 1.6   |
| 07/02/95 | 11.7 | 9.6  | 10.49 | 2.1   | 14.2 | 11.7 | 12.79 | 2.5   |
| 07/03/95 | 11.7 | 9.8  | 10.46 | 1.9   | 13.9 | 11.7 | 12.73 | 2.2   |
| 07/04/95 | 11.1 | 9.6  | 10.16 | 1.5   | 13.0 | 11.1 | 12.11 | 1.9   |
| 07/05/95 | 10.7 | 9.4  | 9.90  | 1.3   | 12.6 | 10.7 | 11.59 | 1.9   |
| 07/06/95 | 11.1 | 8.6  | 9.65  | 2.5   | 12.6 | 9.2  | 11.13 | 3.4   |
| 07/07/95 | 10.9 | 8.8  | 9.75  | 2.1   | 12.8 | 9.6  | 11.40 | 3.2   |
| 07/08/95 | 10.7 | 9.6  | 10.00 | 1.1   | 12.8 | 11.3 | 11.93 | 1.5   |
| 07/09/95 | 10.7 | 9.2  | 9.97  | 1.5   | 13.3 | 11.1 | 12.37 | 2.2   |
| 07/10/95 | 10.0 | 9.0  | 9.50  | 1.0   | 12.4 | 9.6  | 11.05 | 2.8   |
| 07/11/95 | 9.2  | 8.6  | 8.91  | 0.6   | 10.0 | 9.2  | 9.56  | 0.8   |
| 07/12/95 | 10.0 | 8.2  | 9.04  | 1.8   | 11.3 | 8.4  | 9.87  | 2.9   |
| 07/13/95 | 10.0 | 8.8  | 9.31  | 1.2   | 11.1 | 9.4  | 10.24 | 1.7   |
| 07/14/95 | 10.0 | 8.8  | 9.31  | 1.2   | 11.5 | 9.6  | 10.57 | 1.9   |
| 07/15/95 | 10.7 | 8.0  | 9.35  | 2.7   | 12.4 | 8.8  | 10.85 | 3.6   |
| 07/16/95 | 10.9 | 9.0  | 9.88  | 1.9   | 13.0 | 10.7 | 11.92 | 2.3   |
| 07/17/95 | 11.1 | 9.2  | 10.19 | 1.9   | 13.0 | 10.7 | 12.09 | 2.3   |
| 07/18/95 | 12.1 | 9.4  | 10.59 | 2.7   | 14.4 | 10.7 | 12.63 | 3.7   |
| 07/19/95 | 12.6 | 9.8  | 11.11 | 2.8   | 15.3 | 11.3 | 13.46 | 4.0   |
| 07/20/95 | 12.6 | 10.7 | 11.55 | 1.9   | 15.6 | 12.4 | 14.08 | 3.2   |
| 07/21/95 | 12.8 | 10.7 | 11.63 | 2.1   | 15.6 | 12.1 | 14.03 | 3.5   |
| 07/22/95 | 12.8 | 10.9 | 11.69 | 1.9   | 15.6 | 12.4 | 13.97 | 3.2   |
| 07/23/95 | 12.1 | 10.9 | 11.39 | 1.2   | 14.4 | 12.4 | 13.33 | 2.0   |
| 07/24/95 | 10.9 | 10.4 | 10.61 | 0.5   | 12.4 | 11.7 | 11.95 | 0.7   |
| 07/25/95 | 12.4 | 10.0 | 10.99 | 2.4   | 14.6 | 11.5 | 12.81 | 3.1   |

## GATES CREEK WATER TEMPERATURE (°C) at STATION CCC in 1995

| DATE     | WEST |      |       |       | EAST |      |       |       |
|----------|------|------|-------|-------|------|------|-------|-------|
|          | MAX  | MIN  | MEAN  | RANGE | MAX  | MIN  | MEAN  | RANGE |
| 07/26/95 | 11.7 | 10.0 | 10.63 | 1.7   | 13.5 | 11.3 | 12.33 | 2.2   |
| 07/27/95 | 10.2 | 9.0  | 9.63  | 1.2   | 11.7 | 9.8  | 10.89 | 1.9   |
| 07/28/95 | 9.8  | 8.2  | 9.10  | 1.6   | 11.3 | 8.4  | 10.12 | 2.9   |
| 07/29/95 | 10.9 | 8.6  | 9.64  | 2.3   | 12.8 | 9.4  | 10.98 | 3.4   |
| 07/30/95 | 10.0 | 9.0  | 9.57  | 1.0   | 11.5 | 10.0 | 10.81 | 1.5   |
| 07/31/95 | 10.2 | 9.2  | 9.73  | 1.0   | 11.9 | 10.0 | 11.04 | 1.9   |
| 08/01/95 | 10.9 | 9.2  | 9.99  | 1.7   | 12.8 | 10.4 | 11.57 | 2.4   |
| 08/02/95 | 10.4 | 9.4  | 9.94  | 1.0   | 12.4 | 10.4 | 11.36 | 2.0   |
| 08/03/95 | 11.3 | 9.6  | 10.33 | 1.7   | 13.0 | 10.7 | 11.83 | 2.3   |
| 08/04/95 | 11.7 | 10.2 | 10.73 | 1.5   | 13.3 | 11.5 | 12.30 | 1.8   |
| 08/05/95 | 10.7 | 9.4  | 9.91  | 1.3   | 11.9 | 9.6  | 10.70 | 2.3   |
| 08/06/95 | 10.4 | 8.6  | 9.44  | 1.8   | 11.5 | 8.6  | 10.07 | 2.9   |
| 08/07/95 | 10.4 | 8.6  | 9.42  | 1.8   | 11.5 | 8.8  | 10.08 | 2.7   |
| 08/08/95 | 10.4 | 8.6  | 9.36  | 1.8   | 11.5 | 8.6  | 10.25 | 2.9   |
| 08/09/95 | 10.2 | 8.8  | 9.62  | 1.4   | 11.9 | 9.6  | 10.86 | 2.3   |
| 08/10/95 | 10.4 | 9.4  | 9.75  | 1.0   | 11.5 | 10.2 | 10.88 | 1.3   |
| 08/11/95 | 10.9 | 9.2  | 9.94  | 1.7   | 12.8 | 10.2 | 11.37 | 2.6   |
| 08/12/95 | 10.9 | 8.6  | 9.48  | 2.3   | 12.1 | 9.0  | 10.57 | 3.1   |
| 08/13/95 | 10.0 | 8.8  | 9.33  | 1.2   | 11.1 | 9.4  | 10.29 | 1.7   |
| 08/14/95 | 10.0 | 8.8  | 9.35  | 1.2   | 11.1 | 9.8  | 10.40 | 1.3   |
| 08/15/95 | 8.8  | 7.7  | 8.33  | 1.1   | 10.4 | 8.2  | 9.42  | 2.2   |
| 08/16/95 | 9.2  | 7.1  | 8.11  | 2.1   | 10.9 | 7.5  | 9.29  | 3.4   |
| 08/17/95 | 9.2  | 7.3  | 8.26  | 1.9   | 10.9 | 7.7  | 9.44  | 3.2   |
| 08/18/95 | 9.0  | 7.8  | 8.45  | 1.2   | 10.4 | 8.6  | 9.60  | 1.8   |
| 08/19/95 | 8.8  | 7.8  | 8.37  | 1.0   | 10.0 | 8.4  | 9.29  | 1.6   |
| 08/20/95 | 8.8  | 7.8  | 8.39  | 1.0   | 9.8  | 8.4  | 9.18  | 1.4   |
| 08/21/95 | 9.0  | 8.2  | 8.62  | 0.8   | 10.9 | 9.4  | 10.17 | 1.5   |
| 08/22/95 | 9.2  | 8.2  | 8.58  | 1.0   | 10.2 | 9.2  | 9.75  | 1.0   |
| 08/23/95 | 8.8  | 7.3  | 8.08  | 1.5   | 9.8  | 7.8  | 8.92  | 2.0   |
| 08/24/95 | 8.6  | 7.5  | 8.09  | 1.1   | 9.8  | 7.8  | 8.90  | 2.0   |
| 08/25/95 | 8.4  | 7.3  | 7.89  | 1.1   | 9.6  | 7.5  | 8.65  | 2.1   |
| 08/26/95 | 8.2  | 6.9  | 7.61  | 1.3   | 9.2  | 6.9  | 8.17  | 2.3   |
| 08/27/95 | 8.4  | 6.5  | 7.48  | 1.9   | 9.2  | 6.1  | 7.90  | 3.1   |
| 08/28/95 | 8.6  | 6.7  | 7.60  | 1.9   | 9.2  | 6.5  | 8.14  | 2.7   |
| 08/29/95 | 8.8  | 6.5  | 7.60  | 2.3   | 9.4  | 6.3  | 8.08  | 3.1   |
| 08/30/95 | 8.8  | 6.5  | 7.58  | 2.3   | 9.2  | 6.3  | 7.92  | 2.9   |
| 08/31/95 | 8.2  | 6.7  | 7.58  | 1.5   | 9.2  | 6.3  | 7.95  | 2.9   |
| 09/01/95 | 8.8  | 6.9  | 7.91  | 1.9   | 9.6  | 6.7  | 8.41  | 2.9   |
| 09/02/95 | 9.2  | 8.0  | 8     |       |      |      |       |       |

## GATES CREEK WATER TEMPERATURE (°C) at STATION CCC in 1995

| DATE     | WEST    |         |         |         | EAST   |         |         |         |
|----------|---------|---------|---------|---------|--------|---------|---------|---------|
|          | MAX     | MIN     | MEAN    | RANGE   | MAX    | MIN     | MEAN    | RANGE   |
| 09/04/95 | 10.2    | 8.0     | 8.93    | 2.2     | 10.9   | 8.2     | 9.63    | 2.7     |
| 09/05/95 | 10.0    | 8.6     | 9.26    | 1.4     | 11.1   | 9.2     | 10.19   | 1.9     |
| 09/06/95 | 10.9    | 9.2     | 9.63    | 1.7     | 11.7   | 10.0    | 10.73   | 1.7     |
| 09/07/95 | 10.7    | 8.4     | 9.29    | 2.3     | 10.9   | 8.4     | 9.74    | 2.5     |
| 09/08/95 | 10.7    | 8.4     | 9.26    | 2.3     | 10.7   | 8.2     | 9.51    | 2.5     |
| 09/09/95 | 10.0    | 8.2     | 9.15    | 1.8     | 10.4   | 7.8     | 9.28    | 2.6     |
| 09/10/95 | 10.2    | 9.0     | 9.48    | 1.2     | 11.3   | 9.2     | 10.09   | 2.1     |
| 09/11/95 | 10.4    | 9.2     | 9.68    | 1.2     | 11.3   | 9.8     | 10.49   | 1.5     |
| 09/12/95 | 10.7    | 8.8     | 9.52    | 1.9     | 10.9   | 9.2     | 10.19   | 1.7     |
| 09/13/95 | 10.2    | 8.0     | 8.89    | 2.2     | 9.8    | 7.3     | 8.65    | 2.5     |
| 09/14/95 | 10.2    | 7.8     | 8.85    | 2.4     | 9.8    | 7.1     | 8.49    | 2.7     |
| 09/15/95 | 9.8     | 7.8     | 8.57    | 2.0     | 9.0    | 6.7     | 7.96    | 2.3     |
| 09/16/95 | 9.6     | 7.5     | 8.31    | 2.1     | 8.4    | 6.0     | 7.36    | 2.4     |
| 09/17/95 | 9.4     | 7.5     | 8.30    | 1.9     | 8.4    | 6.0     | 7.34    | 2.4     |
| 09/18/95 | 8.4     | 7.7     | 7.97    | 0.7     | 8.0    | 6.7     | 7.36    | 1.3     |
| 09/19/95 | 8.8     | 7.1     | 7.70    | 1.7     | 7.7    | 5.8     | 6.65    | 1.9     |
| 09/20/95 | 8.4     | 6.1     | 7.15    | 2.3     | 6.9    | 3.8     | 5.48    | 3.1     |
| 09/21/95 | 8.6     | 6.5     | 7.42    | 2.1     | 7.1    | 4.5     | 6.00    | 2.6     |
| 09/22/95 | 8.4     | 6.3     | 7.26    | 2.1     | 7.1    | 4.1     | 5.73    | 3.0     |
| 09/23/95 | 8.6     | 6.5     | 7.43    | 2.1     | 7.5    | 4.5     | 6.07    | 3.0     |
| 09/24/95 | 8.6     | 6.7     | 7.58    | 1.9     | 7.5    | 5.2     | 6.44    | 2.3     |
| 09/25/95 | 8.4     | 6.7     | 7.60    | 1.7     | 7.7    | 5.2     | 6.53    | 2.5     |
| 09/26/95 | 8.4     | 7.7     | 7.98    | 0.7     | 8.0    | 7.3     | 7.63    | 0.7     |
| 09/27/95 | 8.2     | 6.7     | 7.56    | 1.5     | 7.7    | 5.6     | 6.81    | 2.1     |
| 09/28/95 | 8.4     | 7.7     | 7.87    | 0.7     | 8.0    | 7.1     | 7.60    | 0.9     |
| 09/29/95 | 8.0     | 6.9     | 7.50    | 1.1     | 7.8    | 6.0     | 7.13    | 1.8     |
| 09/30/95 | 7.5     | 6.3     | 7.13    | 1.2     | 7.3    | 5.2     | 6.56    | 2.1     |
| 10/01/95 |         | 6.0     |         |         |        | 4.1     |         |         |
| COUNT    | 107     | 107     | 106     | 106     | 107    | 107     | 106     | 106     |
| MAX      | 12.8    | 10.9    | 11.6896 | 3.2     | 15.6   | 12.4    | 14.075  | 4.7     |
| MIN      | 7.5     | 6.0     | 7.125   | 0.5     | 6.9    | 3.8     | 5.47917 | 0.7     |
| MEAN     | 10.0449 | 8.31308 | 9.11948 | 1.72547 | 11.246 | 8.75888 | 10.1049 | 2.45094 |
| ST.DEV   | 1.22758 | 1.1533  | 1.09657 | 0.62178 | 2.138  | 2.04838 | 1.99885 | 0.86627 |
| VARIANCE | 1.50696 | 1.33011 | 1.20246 | 0.38662 | 4.5711 | 4.19588 | 3.9954  | 0.75042 |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS DDD and EEE in 1993

| DATE     | STATION DDD |      |       |       | STATION EEE |     |       |       |
|----------|-------------|------|-------|-------|-------------|-----|-------|-------|
|          | MAX         | MIN  | MEAN  | RANGE | MAX         | MIN | MEAN  | RANGE |
| 07/29/93 | 8.5         |      |       |       | 9.1         |     |       |       |
| 07/30/93 | 7.9         | 7.2  | 7.59  | 0.70  | 8.5         | 7.4 | 7.87  | 1.10  |
| 07/31/93 | 8.5         | 7.4  | 7.95  | 1.10  | 9.1         | 7.7 | 8.40  | 1.40  |
| 08/01/93 | 9.3         | 8.1  | 8.62  | 1.20  | 10.1        | 8.7 | 9.45  | 1.40  |
| 08/02/93 | 9.9         | 8.5  | 9.14  | 1.40  | 10.1        | 8.7 | 9.54  | 1.40  |
| 08/03/93 | 10.3        | 8.9  | 9.61  | 1.40  | 10.3        | 8.7 | 9.59  | 1.60  |
| 08/04/93 | 10.8        | 9.5  | 10.21 | 1.30  | 10.8        | 9.3 | 10.05 | 1.50  |
| 08/05/93 | 11.4        | 10.1 | 10.75 | 1.30  | 11.2        | 9.7 | 10.35 | 1.50  |
| 08/06/93 | 10.8        | 9.9  | 10.32 | 0.90  | 10.6        | 9.5 | 10.03 | 1.10  |
| 08/07/93 | 10.6        | 9.5  | 10.11 | 1.10  | 10.1        | 9.1 | 9.59  | 1.00  |
| 08/08/93 | 10.3        | 9.5  | 10.04 | 0.80  | 10.6        | 9.3 | 9.84  | 1.30  |
| 08/09/93 | 9.3         | 8.7  | 9.08  | 0.60  | 9.9         | 9.1 | 9.47  | 0.80  |
| 08/10/93 | 8.9         | 7.9  | 8.45  | 1.00  | 9.1         | 7.7 | 8.36  | 1.40  |
| 08/11/93 | 9.3         | 7.9  | 8.61  | 1.40  | 9.1         | 7.6 | 8.35  | 1.50  |
| 08/12/93 | 9.1         | 8.5  | 8.80  | 0.60  | 9.1         | 8.5 | 8.78  | 0.60  |
| 08/13/93 | 8.9         | 8.1  | 8.49  | 0.80  | 8.7         | 8.1 | 8.45  | 0.60  |
| 08/14/93 | 8.9         | 8.1  | 8.54  | 0.80  | 8.9         | 7.9 | 8.38  | 1.00  |
| 08/15/93 | 9.3         | 8.1  | 8.77  | 1.20  | 8.7         | 7.6 | 8.16  | 1.10  |
| 08/16/93 | 9.9         | 8.7  | 9.34  | 1.20  | 9.3         | 7.9 | 8.55  | 1.40  |
| 08/17/93 | 9.9         | 9.1  | 9.58  | 0.80  | 9.5         | 8.5 | 8.88  | 1.00  |
| 08/18/93 | 9.9         | 8.9  | 9.46  | 1.00  | 9.3         | 8.3 | 8.78  | 1.00  |
| 08/19/93 | 10.1        | 9.1  | 9.61  | 1.00  | 9.3         | 8.1 | 8.76  | 1.20  |
| 08/20/93 | 10.3        | 9.3  | 9.88  | 1.00  | 9.5         | 8.5 | 8.94  | 1.00  |
| 08/21/93 | 10.1        | 9.3  | 9.68  | 0.80  | 9.3         | 8.5 | 8.89  | 0.80  |
| 08/22/93 | 9.5         | 9.1  | 9.27  | 0.40  | 8.7         | 8.3 | 8.55  | 0.40  |
| 08/23/93 | 9.5         | 7.7  | 8.70  | 1.80  | 8.7         | 7.6 | 8.37  | 1.10  |
| 08/24/93 | 7.7         | 7.2  | 7.51  | 0.50  | 7.6         | 7.0 | 7.34  | 0.60  |
| 08/25/93 | 8.1         | 7.4  | 7.73  | 0.70  | 7.7         | 7.2 | 7.47  | 0.50  |
| 08/26/93 | 7.7         | 7.2  | 7.47  | 0.50  | 7.4         | 6.8 | 7.15  | 0.60  |
| 08/27/93 | 7.6         | 7.0  | 7.35  | 0.60  | 7.4         | 6.6 | 7.02  | 0.80  |
| 08/28/93 | 7.6         | 6.6  | 7.20  | 1.00  | 7.2         | 6.2 | 6.67  | 1.00  |
| 08/29/93 | 7.6         | 6.8  | 7.24  | 0.80  | 6.8         | 5.7 | 6.27  | 1.10  |
| 08/30/93 | 8.3         | 7.0  | 7.69  | 1.30  | 7.2         | 5.9 | 6.52  | 1.30  |
| 08/31/93 | 9.3         | 8.1  | 8.68  | 1.20  | 8.1         | 7.0 | 7.51  | 1.10  |
| 09/01/93 | 9.3         | 8.5  | 8.98  | 0.80  | 8.3         | 7.4 | 7.84  | 0.90  |
| 09/02/93 | 9.7         | 8.7  | 9.16  | 1.00  | 8.5         | 7.4 | 7.92  | 1.10  |
| 09/03/93 | 9.5         | 8.9  | 9.20  | 0.60  | 8.3         | 7.6 | 7.89  | 0.70  |
| 09/04/93 | 9.1         | 8.5  | 8.82  | 0.60  | 7.7         | 7.0 | 7.41  | 0.70  |
| 09/05/93 | 9.1         | 8.3  | 8.73  | 0.80  | 7.7         | 6.8 | 7.34  | 0.90  |
| 09/06/93 | 9.3         | 8.5  | 8.93  | 0.80  | 7.7         | 6.8 | 7.35  | 0.90  |
| 09/07/93 | 9.7         | 8.7  | 9.20  | 1.00  | 8.1         | 7.0 | 7.52  | 1.10  |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS DDD and EEE in 1993

|          | STATION DDD |         |         |         | STATION EEE |         |         |         |
|----------|-------------|---------|---------|---------|-------------|---------|---------|---------|
| DATE     | MAX         | MIN     | MEAN    | RANGE   | MAX         | MIN     | MEAN    | RANGE   |
| 09/08/93 | 9.3         | 8.9     | 9.09    | 0.40    | 7.7         | 7.2     | 7.50    | 0.50    |
| 09/09/93 | 9.1         | 8.3     | 8.75    | 0.80    | 7.7         | 6.8     | 7.26    | 0.90    |
| 09/10/93 | 9.1         | 8.3     | 8.81    | 0.80    | 7.6         | 7.0     | 7.37    | 0.60    |
| 09/11/93 | 8.3         | 7.2     | 7.54    | 1.10    | 7.0         | 6.2     | 6.59    | 0.80    |
| 09/12/93 | 7.4         | 6.4     | 6.95    | 1.00    | 6.2         | 5.5     | 5.90    | 0.70    |
| 09/13/93 | 7.7         | 7.0     | 7.36    | 0.70    | 6.6         | 6.0     | 6.26    | 0.60    |
| 09/14/93 | 7.4         | 6.8     | 7.09    | 0.60    | 6.4         | 6.0     | 6.17    | 0.40    |
| 09/15/93 | 7.0         | 6.2     | 6.70    | 0.80    | 6.0         | 5.3     | 5.70    | 0.70    |
| 09/16/93 | 6.8         | 6.0     | 6.42    | 0.80    | 5.7         | 4.9     | 5.33    | 0.80    |
| 09/17/93 | 7.0         | 6.0     | 6.49    | 1.00    | 5.9         | 4.9     | 5.42    | 1.00    |
| 09/18/93 | 6.4         | 4.9     | 5.73    | 1.50    | 5.5         | 4.4     | 5.01    | 1.10    |
| 09/19/93 | 4.8         | 4.0     | 4.46    | 0.80    | 4.4         | 3.7     | 4.13    | 0.70    |
| 09/20/93 | 4.4         | 3.3     | 3.91    | 1.10    | 3.9         | 3.2     | 3.54    | 0.70    |
| 09/21/93 | 4.8         | 3.7     | 4.23    | 1.10    | 4.0         | 3.2     | 3.63    | 0.80    |
| 09/22/93 | 4.9         | 4.2     | 4.62    | 0.70    | 4.4         | 3.7     | 4.03    | 0.70    |
| 09/23/93 | 6.0         | 4.9     | 5.53    | 1.10    | 5.3         | 4.2     | 4.79    | 1.10    |
| 09/24/93 | 6.0         | 5.5     | 5.74    | 0.50    | 5.3         | 4.8     | 4.99    | 0.50    |
| 09/25/93 | 5.9         | 4.9     | 5.44    | 1.00    | 4.9         | 4.4     | 4.72    | 0.50    |
| 09/26/93 | 6.8         | 5.9     | 6.31    | 0.90    | 5.9         | 4.9     | 5.45    | 1.00    |
| 09/27/93 | 6.0         | 5.3     | 5.61    | 0.70    | 5.3         | 4.4     | 4.74    | 0.90    |
| 09/28/93 |             | 4.9     |         |         |             | 4.0     |         |         |
| COUNT    | 61          | 61      | 60      | 60      | 61          | 61      | 60      | 60      |
| MAX      | 11.4        | 10.1    | 10.7474 | 1.8     | 11.2        | 9.7     | 10.3542 | 1.6     |
| MIN      | 4.4         | 3.3     | 3.91094 | 0.4     | 3.9         | 3.2     | 3.54375 | 0.4     |
| MEAN     | 8.45738     | 7.49344 | 8.02076 | 0.92    | 7.8525      | 6.84262 | 7.36899 | 0.94167 |
| ST.DEV.  | 1.63952     | 1.64634 | 1.63118 | 0.28682 | 1.8144      | 1.70337 | 1.73601 | 0.30621 |
| VARIANCE | 2.68802     | 2.71045 | 2.66076 | 0.08227 | 3.292       | 2.90146 | 3.01372 | 0.09376 |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS DDD and EEE in 1994

|          | STATION DDD |     |      |       | STATION EEE |     |       |       |
|----------|-------------|-----|------|-------|-------------|-----|-------|-------|
| DATE     | MAX         | MIN | MEAN | RANGE | MAX         | MIN | MEAN  | RANGE |
| 06/08/94 | 5.8         |     |      |       | 7.8         |     |       |       |
| 06/09/94 | 6.1         | 4.0 | 5.03 | 2.1   | 7.8         | 6.0 | 7.00  | 1.8   |
| 06/10/94 | 6.3         | 4.0 | 5.17 | 2.3   | 8.2         | 6.0 | 7.20  | 2.2   |
| 06/11/94 | 6.9         | 4.9 | 5.78 | 2.0   | 8.8         | 7.3 | 7.98  | 1.5   |
| 06/12/94 | 5.4         | 4.3 | 4.91 | 1.1   | 7.5         | 6.1 | 6.77  | 1.4   |
| 06/13/94 | 5.8         | 4.9 | 5.25 | 0.9   | 7.5         | 6.5 | 7.00  | 1.0   |
| 06/14/94 | 5.6         | 4.3 | 4.80 | 1.3   | 7.7         | 4.9 | 6.21  | 2.8   |
| 06/15/94 | 5.8         | 4.5 | 5.08 | 1.3   | 8.4         | 6.1 | 7.15  | 2.3   |
| 06/16/94 | 6.0         | 4.7 | 5.40 | 1.3   | 8.8         | 6.5 | 7.75  | 2.3   |
| 06/17/94 | 6.1         | 4.7 | 5.49 | 1.4   | 8.4         | 6.7 | 7.67  | 1.7   |
| 06/18/94 | 6.7         | 4.7 | 5.68 | 2.0   | 8.6         | 6.5 | 7.64  | 2.1   |
| 06/19/94 | 6.7         | 5.0 | 5.91 | 1.7   | 8.4         | 6.9 | 7.75  | 1.5   |
| 06/20/94 | 7.7         | 5.0 | 6.32 | 2.7   | 9.2         | 6.5 | 8.00  | 2.7   |
| 06/21/94 | 8.0         | 5.8 | 6.90 | 2.2   | 10.0        | 7.5 | 8.78  | 2.5   |
| 06/22/94 | 8.8         | 6.3 | 7.56 | 2.5   | 10.7        | 8.2 | 9.59  | 2.5   |
| 06/23/94 | 9.2         | 7.5 | 8.30 | 1.7   | 11.3        | 9.6 | 10.50 | 1.7   |
| 06/24/94 | 9.2         | 7.5 | 8.26 | 1.7   | 10.9        | 9.4 | 10.08 | 1.5   |
| 06/25/94 | 9.2         | 7.3 | 8.16 | 1.9   | 10.9        | 8.8 | 9.76  | 2.1   |
| 06/26/94 | 8.8         | 7.3 | 8.01 | 1.5   | 10.2        | 8.8 | 9.38  | 1.4   |
| 06/27/94 | 7.8         | 6.7 | 7.26 | 1.1   | 8.8         | 7.7 | 8.26  | 1.1   |
| 06/28/94 | 7.1         | 6.1 | 6.60 | 1.0   | 7.8         | 7.1 | 7.48  | 0.7   |
| 06/29/94 | 7.5         | 6.1 | 6.74 | 1.4   | 7.8         | 6.9 | 7.40  | 0.9   |
| 06/30/94 | 7.1         | 6.1 | 6.65 | 1.0   | 8.0         | 6.7 | 7.44  | 1.3   |
| 07/01/94 | 7.8         | 6.3 | 6.99 | 1.5   | 9.2         | 7.3 | 8.15  | 1.9   |
| 07/02/94 | 6.9         | 6.3 | 6.68 | 0.6   | 8.6         | 7.7 | 7.95  | 0.9   |
| 07/03/94 | 7.3         | 6.0 | 6.71 | 1.3   | 8.2         | 6.9 | 7.60  | 1.3   |
| 07/04/94 | 7.1         | 6.1 | 6.67 | 1.0   | 8.0         | 7.3 | 7.69  | 0.7   |
| 07/05/94 | 8.4         | 6.3 | 7.39 | 2.1   | 9.4         | 6.7 | 8.14  | 2.7   |
| 07/06/94 | 8.4         | 7.3 | 7.85 | 1.1   | 9.8         | 8.4 | 9.01  | 1.4   |
| 07/07/94 | 8.2         | 7.3 | 7.73 | 0.9   | 9.2         | 8.2 | 8.64  | 1.0   |
| 07/08/94 | 7.3         | 6.3 | 6.92 | 1.0   | 8.0         | 7.1 | 7.52  | 0.9   |
| 07/09/94 | 7.8         | 6.0 | 6.94 | 1.8   | 8.4         | 6.5 | 7.44  | 1.9   |
| 07/10/94 | 8.4         | 6.5 | 7.39 | 1.9   | 8.6         | 6.9 | 7.81  | 1.7   |
| 07/11/94 | 8.8         | 7.1 | 7.93 | 1.7   | 9.2         | 7.5 | 8.27  | 1.7   |
| 07/12/94 | 9.2         | 7.8 | 8.58 | 1.4   | 10.0        | 8.2 | 8.98  | 1.8   |
| 07/13/94 | 9.6         | 8.4 | 9.05 | 1.2   | 10.0        | 8.8 | 9.47  | 1.2   |
| 07/14/94 | 10.0        | 8.8 | 9.31 | 1.2   | 10.9        | 9.2 | 9.94  | 1.7   |
| 07/15/94 | 10.2        | 8.8 | 9.58 | 1.4   | 11.3        | 9.6 | 10.43 | 1.7   |
| 07/16/94 | 9.8         | 9.0 | 9.40 | 0.8   | 10.7        | 9.6 | 10.08 | 1.1   |
| 07/17/94 | 9.6         | 8.8 | 9.12 | 0.8   | 10.2        | 9.4 | 9.68  | 0.8   |
| 07/18/94 | 9.6         | 8.4 | 9.04 | 1.2   | 10.2        | 9.0 | 9.51  | 1.2   |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS DDD and EEE in 1994

| DATE     | STATION DDD |      |       |       | STATION EEE |      |       |       |
|----------|-------------|------|-------|-------|-------------|------|-------|-------|
|          | MAX         | MIN  | MEAN  | RANGE | MAX         | MIN  | MEAN  | RANGE |
| 07/19/94 | 10.2        | 8.4  | 9.31  | 1.8   | 10.4        | 8.8  | 9.63  | 1.6   |
| 07/20/94 | 10.7        | 9.2  | 9.95  | 1.5   | 10.9        | 9.0  | 9.91  | 1.9   |
| 07/21/94 | 10.4        | 9.2  | 9.96  | 1.2   | 10.7        | 9.2  | 9.85  | 1.5   |
| 07/22/94 | 10.9        | 9.2  | 10.06 | 1.7   | 10.4        | 8.4  | 9.38  | 2.0   |
| 07/23/94 | 11.5        | 10.0 | 10.76 | 1.5   | 10.9        | 9.0  | 9.90  | 1.9   |
| 07/24/94 | 12.1        | 10.9 | 11.56 | 1.2   | 11.5        | 10.0 | 10.62 | 1.5   |
| 07/25/94 | 11.9        | 11.1 | 11.50 | 0.8   | 11.3        | 10.0 | 10.56 | 1.3   |
| 07/26/94 | 11.3        | 10.4 | 10.93 | 0.9   | 11.1        | 9.8  | 10.30 | 1.3   |
| 07/27/94 | 11.1        | 9.8  | 10.58 | 1.3   | 10.7        | 9.2  | 9.90  | 1.5   |
| 07/28/94 | 11.7        | 10.7 | 11.15 | 1.0   | 10.9        | 9.8  | 10.28 | 1.1   |
| 07/29/94 | 11.1        | 9.8  | 10.59 | 1.3   | 10.2        | 9.2  | 9.80  | 1.0   |
| 07/30/94 | 9.8         | 9.0  | 9.43  | 0.8   | 9.0         | 8.4  | 8.82  | 0.6   |
| 07/31/94 | 9.2         | 8.4  | 8.88  | 0.8   | 8.6         | 7.7  | 8.24  | 0.9   |
| 08/01/94 | 10.2        | 8.8  | 9.48  | 1.4   | 9.4         | 8.2  | 8.74  | 1.2   |
| 08/02/94 | 10.9        | 9.6  | 10.36 | 1.3   | 9.8         | 8.8  | 9.28  | 1.0   |
| 08/03/94 | 11.3        | 10.4 | 10.92 | 0.9   | 10.0        | 9.0  | 9.55  | 1.0   |
| 08/04/94 | 11.5        | 10.7 | 11.07 | 0.8   | 10.0        | 9.4  | 9.67  | 0.6   |
| 08/05/94 | 10.7        | 9.6  | 10.08 | 1.1   | 9.4         | 8.6  | 9.05  | 0.8   |
| 08/06/94 | 9.6         | 9.0  | 9.35  | 0.6   | 9.0         | 8.2  | 8.68  | 0.8   |
| 08/07/94 | 10.4        | 9.4  | 9.85  | 1.0   | 10.0        | 8.8  | 9.33  | 1.2   |
| 08/08/94 | 10.4        | 9.6  | 10.06 | 0.8   | 9.6         | 8.8  | 9.25  | 0.8   |
| 08/09/94 | 10.2        | 9.8  | 10.11 | 0.4   | 9.4         | 9.0  | 9.27  | 0.4   |
| 08/10/94 | 10.4        | 9.4  | 9.94  | 1.0   | 9.4         | 8.2  | 8.92  | 1.2   |
| 08/11/94 | 10.9        | 9.6  | 10.31 | 1.3   | 9.6         | 8.4  | 9.01  | 1.2   |
| 08/12/94 | 11.3        | 10.2 | 10.78 | 1.1   | 10.0        | 8.6  | 9.25  | 1.4   |
| 08/13/94 | 11.7        | 10.7 | 11.22 | 1.0   | 10.2        | 9.0  | 9.63  | 1.2   |
| 08/14/94 | 11.3        | 10.4 | 11.00 | 0.9   | 10.0        | 9.2  | 9.60  | 0.8   |
| 08/15/94 | 10.4        | 9.8  | 10.13 | 0.6   | 9.2         | 8.6  | 8.94  | 0.6   |
| 08/16/94 | 10.4        | 9.4  | 9.83  | 1.0   | 9.2         | 8.0  | 8.60  | 1.2   |
| 08/17/94 | 10.9        | 9.6  | 10.15 | 1.3   | 9.4         | 8.2  | 8.70  | 1.2   |
| 08/18/94 | 11.3        | 10.2 | 10.70 | 1.1   | 9.4         | 8.4  | 8.95  | 1.0   |
| 08/19/94 | 11.5        | 10.4 | 10.94 | 1.1   | 9.6         | 8.4  | 8.99  | 1.2   |
| 08/20/94 | 10.7        | 9.8  | 10.30 | 0.9   | 9.4         | 8.4  | 8.94  | 1.0   |
| 08/21/94 | 10.2        | 9.6  | 9.92  | 0.6   | 9.0         | 8.4  | 8.71  | 0.6   |
| 08/22/94 | 9.6         | 8.6  | 9.25  | 1.0   | 8.6         | 7.7  | 8.23  | 0.9   |
| 08/23/94 | 8.6         | 7.8  | 8.25  | 0.8   | 7.7         | 7.1  | 7.42  | 0.6   |
| 08/24/94 | 8.4         | 7.7  | 8.05  | 0.7   | 7.5         | 6.7  | 7.18  | 0.8   |
| 08/25/94 | 8.2         | 7.5  | 7.88  | 0.7   | 7.1         | 6.1  | 6.70  | 1.0   |
| 08/26/94 | 8.2         | 7.7  | 7.92  | 0.5   | 7.1         | 6.0  | 6.53  | 1.1   |
| 08/27/94 | 8.6         | 7.8  | 8.20  | 0.8   | 7.3         | 6.0  | 6.71  | 1.3   |
| 08/28/94 | 8.8         | 8.2  | 8.56  | 0.6   | 7.7         | 6.3  | 7.04  | 1.4   |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS DDD and EEE in 1994

| DATE     | STATION DDD |         |         |         | STATION EEE |         |         |         |
|----------|-------------|---------|---------|---------|-------------|---------|---------|---------|
|          | MAX         | MIN     | MEAN    | RANGE   | MAX         | MIN     | MEAN    | RANGE   |
| 08/29/94 | 9.0         | 8.6     | 8.83    | 0.4     | 7.8         | 7.3     | 7.53    | 0.5     |
| 08/30/94 | 9.0         | 8.6     | 8.75    | 0.4     | 7.7         | 6.9     | 7.33    | 0.8     |
| 08/31/94 | 8.8         | 8.6     | 8.74    | 0.2     | 7.5         | 7.1     | 7.35    | 0.4     |
| 09/01/94 | 8.8         | 8.2     | 8.47    | 0.6     | 7.3         | 6.5     | 6.85    | 0.8     |
| 09/02/94 | 8.2         | 7.8     | 7.98    | 0.4     | 6.5         | 6.3     | 6.45    | 0.2     |
| 09/03/94 | 7.8         | 7.3     | 7.66    | 0.5     | 7.1         | 6.1     | 6.53    | 1.0     |
| 09/04/94 | 7.5         | 6.9     | 7.26    | 0.6     | 6.7         | 6.0     | 6.38    | 0.7     |
| 09/05/94 | 7.8         | 7.1     | 7.46    | 0.7     | 7.1         | 6.1     | 6.55    | 1.0     |
| 09/06/94 | 8.2         | 7.7     | 7.87    | 0.5     | 7.3         | 6.7     | 6.98    | 0.6     |
| 09/07/94 | 7.5         | 6.7     | 7.16    | 0.8     | 6.7         | 6.0     | 6.35    | 0.7     |
| 09/08/94 | 7.8         | 7.3     | 7.53    | 0.5     | 7.1         | 6.3     | 6.72    | 0.8     |
| 09/09/94 | 7.7         | 7.1     | 7.41    | 0.6     | 7.1         | 6.3     | 6.68    | 0.8     |
| 09/10/94 | 7.3         | 6.9     | 7.09    | 0.4     | 6.7         | 6.1     | 6.28    | 0.6     |
| 09/11/94 | 6.9         | 6.1     | 6.63    | 0.8     | 6.0         | 5.2     | 5.74    | 0.8     |
| 09/12/94 | 7.5         | 6.5     | 6.96    | 1.0     | 6.5         | 5.8     | 6.13    | 0.7     |
| 09/13/94 | 7.8         | 7.3     | 7.50    | 0.5     | 7.1         | 6.3     | 6.65    | 0.8     |
| 09/14/94 | 7.5         | 6.9     | 7.26    | 0.6     | 6.7         | 6.1     | 6.51    | 0.6     |
| 09/15/94 | 8.0         | 6.9     | 7.51    | 1.1     | 7.3         | 6.3     | 6.80    | 1.0     |
| 09/16/94 | 8.4         | 7.8     | 8.11    | 0.6     | 7.7         | 7.1     | 7.39    | 0.6     |
| 09/17/94 | 8.6         | 7.8     | 8.13    | 0.8     | 7.7         | 6.9     | 7.30    | 0.8     |
| 09/18/94 | 8.2         | 7.7     | 7.92    | 0.5     | 7.5         | 6.7     | 7.10    | 0.8     |
| 09/19/94 | 8.0         | 7.3     | 7.87    | 0.7     | 7.3         | 6.7     | 7.13    | 0.6     |
| 09/20/94 | 7.3         | 6.3     | 6.76    | 1.0     | 6.5         | 5.4     | 5.85    | 1.1     |
| 09/21/94 | 8.0         | 6.9     | 7.47    | 1.1     | 7.1         | 5.8     | 6.39    | 1.3     |
| 09/22/94 | 8.4         | 7.8     | 8.12    | 0.6     | 7.5         | 6.5     | 7.02    | 1.0     |
| 09/23/94 | 8.4         | 8.2     | 8.23    | 0.2     | 7.3         | 7.1     | 7.22    | 0.2     |
| 09/24/94 | 8.8         | 8.2     | 8.55    | 0.6     | 7.8         | 7.1     | 7.50    | 0.7     |
| 09/25/94 | 8.6         | 7.3     | 8.00    | 1.3     | 7.5         | 6.3     | 7.09    | 1.2     |
| 09/26/94 | 7.3         | 6.7     | 6.89    | 0.6     | 6.3         | 5.8     | 6.05    | 0.5     |
| 09/27/94 | 7.1         | 6.3     | 6.78    | 0.8     | 6.3         | 5.6     | 6.03    | 0.7     |
| 09/28/94 | 6.3         | 5.4     | 5.81    | 0.9     | 5.6         | 4.7     | 5.00    | 0.9     |
| 09/29/94 | 5.4         | 4.7     | 5.12    | 0.7     | 4.7         | 4.0     | 4.43    | 0.7     |
| 09/30/94 |             |         | 4.9     |         |             |         | 4.0     |         |
| COUNT    | 114         | 114     | 113     | 113     | 114         | 114     | 113     | 113     |
| MAX      | 12.1        | 11.1    | 11.5625 | 2.7     | 11.5        | 10      | 10.6167 | 2.8     |
| MIN      | 5.4         | 4       | 4.79792 | 0.2     | 4.7         | 4       | 4.43333 | 0.2     |
| MEAN     | 8.75789     | 7.68772 | 8.26176 | 1.07168 | 8.6579      | 7.44825 | 8.07452 | 1.18673 |
| ST.DEV   | 1.68476     | 1.77409 | 1.70903 | 0.49911 | 1.4819      | 1.36967 | 1.368   | 0.55183 |
| VARIANCE | 2.8384      | 3.14739 | 2       |         |             |         |         |         |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS DDD and EEE in 1995

| DATE     | STATION DDD |      |       |       | STATION EEE |      |       |       |
|----------|-------------|------|-------|-------|-------------|------|-------|-------|
|          | MAX         | MIN  | MEAN  | RANGE | MAX         | MIN  | MEAN  | RANGE |
| 06/17/95 | 7.1         |      |       |       | 8.2         |      |       |       |
| 06/18/95 | 7.8         | 6.0  | 6.87  | 1.8   | 9.0         | 6.9  | 7.98  | 2.1   |
| 06/19/95 | 8.6         | 6.9  | 7.67  | 1.7   | 10.2        | 8.0  | 9.06  | 2.2   |
| 06/20/95 | 9.2         | 7.3  | 8.23  | 1.9   | 10.4        | 8.6  | 9.41  | 1.8   |
| 06/21/95 | 9.2         | 7.3  | 8.25  | 1.9   | 10.2        | 8.2  | 9.22  | 2.0   |
| 06/22/95 | 9.0         | 8.0  | 8.50  | 1.0   | 10.0        | 9.0  | 9.41  | 1.0   |
| 06/23/95 | 8.2         | 7.1  | 7.73  | 1.1   | 9.0         | 8.0  | 8.40  | 1.0   |
| 06/24/95 | 8.0         | 6.7  | 7.30  | 1.3   | 8.4         | 7.3  | 7.79  | 1.1   |
| 06/25/95 | 6.9         | 5.8  | 6.45  | 1.1   | 7.5         | 6.3  | 6.88  | 1.2   |
| 06/26/95 | 7.7         | 5.6  | 6.65  | 2.1   | 8.0         | 5.8  | 6.85  | 2.2   |
| 06/27/95 | 8.8         | 6.7  | 7.78  | 2.1   | 9.0         | 6.5  | 7.63  | 2.5   |
| 06/28/95 | 9.8         | 7.8  | 8.76  | 2.0   | 9.4         | 7.3  | 8.39  | 2.1   |
| 06/29/95 | 10.2        | 8.4  | 9.35  | 1.8   | 9.6         | 7.8  | 8.78  | 1.8   |
| 06/30/95 | 10.7        | 9.0  | 9.89  | 1.7   | 10.2        | 8.4  | 9.30  | 1.8   |
| 07/01/95 | 10.2        | 9.4  | 9.82  | 0.8   | 9.6         | 9.0  | 9.32  | 0.6   |
| 07/02/95 | 9.8         | 8.8  | 9.32  | 1.0   | 9.8         | 8.6  | 9.15  | 1.2   |
| 07/03/95 | 9.4         | 8.8  | 9.13  | 0.6   | 9.2         | 8.6  | 8.90  | 0.6   |
| 07/04/95 | 9.0         | 8.4  | 8.70  | 0.6   | 8.8         | 8.2  | 8.51  | 0.6   |
| 07/05/95 | 9.0         | 8.0  | 8.54  | 1.0   | 8.8         | 7.8  | 8.25  | 1.0   |
| 07/06/95 | 8.8         | 7.7  | 8.36  | 1.1   | 8.4         | 7.3  | 7.97  | 1.1   |
| 07/07/95 | 9.2         | 8.0  | 8.67  | 1.2   | 8.6         | 7.5  | 8.08  | 1.1   |
| 07/08/95 | 9.6         | 8.8  | 9.10  | 0.8   | 9.2         | 8.2  | 8.65  | 1.0   |
| 07/09/95 | 9.4         | 8.4  | 9.04  | 1.0   | 9.2         | 8.4  | 8.84  | 0.8   |
| 07/10/95 | 9.2         | 7.8  | 8.78  | 1.4   | 9.8         | 8.6  | 9.16  | 1.2   |
| 07/11/95 | 8.2         | 7.5  | 7.87  | 0.7   | 9.0         | 8.0  | 8.53  | 1.0   |
| 07/12/95 | 8.8         | 7.3  | 8.12  | 1.5   | 9.6         | 7.8  | 8.73  | 1.8   |
| 07/13/95 | 8.8         | 7.8  | 8.27  | 1.0   | 9.6         | 8.6  | 9.11  | 1.0   |
| 07/14/95 | 8.8         | 7.8  | 8.23  | 1.0   | 9.4         | 8.4  | 8.92  | 1.0   |
| 07/15/95 | 9.0         | 7.5  | 8.28  | 1.5   | 9.2         | 7.7  | 8.52  | 1.5   |
| 07/16/95 | 9.6         | 8.2  | 8.88  | 1.4   | 10.2        | 8.6  | 9.34  | 1.6   |
| 07/17/95 | 10.0        | 8.8  | 9.43  | 1.2   | 10.7        | 9.2  | 9.84  | 1.5   |
| 07/18/95 | 10.4        | 9.0  | 9.75  | 1.4   | 10.9        | 9.2  | 9.89  | 1.7   |
| 07/19/95 | 11.3        | 9.4  | 10.33 | 1.9   | 11.1        | 9.2  | 10.08 | 1.9   |
| 07/20/95 | 11.3        | 10.2 | 10.89 | 1.1   | 11.1        | 10.0 | 10.57 | 1.1   |
| 07/21/95 | 11.5        | 10.2 | 10.93 | 1.3   | 11.1        | 9.8  | 10.46 | 1.3   |
| 07/22/95 | 11.5        | 10.7 | 11.10 | 0.8   | 11.1        | 10.0 | 10.49 | 1.1   |
| 07/23/95 | 10.7        | 9.6  | 10.18 | 1.1   | 10.2        | 9.4  | 9.85  | 0.8   |
| 07/24/95 | 9.6         | 9.0  | 9.20  | 0.6   | 9.4         | 8.8  | 9.04  | 0.6   |
| 07/25/95 | 10.2        | 9.0  | 9.53  | 1.2   | 10.2        | 8.8  | 9.36  | 1.4   |
| 07/26/95 | 9.4         | 8.4  | 9.04  | 1.0   | 9.4         | 8.2  | 8.87  | 1.2   |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS DDD and EEE in 1995

| DATE     | STATION DDD |     |      |       | STATION EEE |     |      |       |
|----------|-------------|-----|------|-------|-------------|-----|------|-------|
|          | MAX         | MIN | MEAN | RANGE | MAX         | MIN | MEAN | RANGE |
| 07/27/95 | 8.4         | 7.5 | 7.95 | 0.9   | 8.4         | 7.5 | 7.85 | 0.9   |
| 07/28/95 | 7.8         | 6.7 | 7.42 | 1.1   | 7.7         | 6.7 | 7.28 | 1.0   |
| 07/29/95 | 8.4         | 7.1 | 7.86 | 1.3   | 8.4         | 6.9 | 7.60 | 1.5   |
| 07/30/95 | 8.6         | 7.7 | 8.06 | 0.9   | 8.2         | 7.3 | 7.70 | 0.9   |
| 07/31/95 | 9.0         | 7.8 | 8.38 | 1.2   | 8.6         | 7.5 | 8.05 | 1.1   |
| 08/01/95 | 9.0         | 8.2 | 8.56 | 0.8   | 8.6         | 7.8 | 8.19 | 0.8   |
| 08/02/95 | 9.4         | 8.2 | 8.77 | 1.2   | 9.0         | 7.8 | 8.32 | 1.2   |
| 08/03/95 | 9.8         | 8.6 | 9.17 | 1.2   | 9.4         | 8.0 | 8.68 | 1.4   |
| 08/04/95 | 10.0        | 9.2 | 9.49 | 0.8   | 9.4         | 8.6 | 8.90 | 0.8   |
| 08/05/95 | 9.0         | 7.8 | 8.33 | 1.2   | 8.6         | 7.7 | 7.96 | 0.9   |
| 08/06/95 | 8.2         | 7.3 | 7.74 | 0.9   | 8.0         | 7.3 | 7.59 | 0.7   |
| 08/07/95 | 8.4         | 7.5 | 7.96 | 0.9   | 8.0         | 7.1 | 7.54 | 0.9   |
| 08/08/95 | 8.6         | 7.7 | 8.11 | 0.9   | 8.0         | 6.9 | 7.51 | 1.1   |
| 08/09/95 | 9.0         | 8.0 | 8.52 | 1.0   | 8.2         | 7.3 | 7.81 | 0.9   |
| 08/10/95 | 9.0         | 8.6 | 8.77 | 0.4   | 8.4         | 7.7 | 8.01 | 0.7   |
| 08/11/95 | 9.0         | 8.2 | 8.67 | 0.8   | 8.4         | 7.7 | 8.04 | 0.7   |
| 08/12/95 | 8.6         | 7.5 | 7.97 | 1.1   | 8.0         | 7.1 | 7.49 | 0.9   |
| 08/13/95 | 8.4         | 7.5 | 7.90 | 0.9   | 7.8         | 7.1 | 7.44 | 0.7   |
| 08/14/95 | 8.2         | 7.3 | 7.93 | 0.9   | 7.8         | 7.1 | 7.64 | 0.7   |
| 08/15/95 | 7.5         | 6.5 | 7.03 | 1.0   | 7.1         | 6.3 | 6.62 | 0.8   |
| 08/16/95 | 7.1         | 6.1 | 6.68 | 1.0   | 6.7         | 5.8 | 6.32 | 0.9   |
| 08/17/95 | 7.5         | 6.1 | 6.95 | 1.4   | 6.9         | 5.8 | 6.40 | 1.1   |
| 08/18/95 | 7.5         | 6.7 | 7.20 | 0.8   | 7.1         | 6.3 | 6.69 | 0.8   |
| 08/19/95 | 7.5         | 6.9 | 7.20 | 0.6   | 6.9         | 6.3 | 6.68 | 0.6   |
| 08/20/95 | 7.5         | 6.9 | 7.23 | 0.6   | 7.1         | 6.3 | 6.77 | 0.8   |
| 08/21/95 | 8.4         | 7.7 | 7.94 | 0.7   | 8.6         | 7.1 | 8.08 | 1.5   |
| 08/22/95 | 8.2         | 7.5 | 7.80 | 0.7   | 8.4         | 7.7 | 7.97 | 0.7   |
| 08/23/95 | 7.7         | 6.7 | 7.26 | 1.0   | 7.7         | 6.5 | 7.10 | 1.2   |
| 08/24/95 | 7.5         | 6.7 | 7.13 | 0.8   | 7.3         | 6.5 | 6.91 | 0.8   |
| 08/25/95 | 7.3         | 6.5 | 6.93 | 0.8   | 6.9         | 6.3 | 6.65 | 0.6   |
| 08/26/95 | 7.3         | 6.3 | 6.80 | 1.0   | 6.7         | 5.6 | 6.23 | 1.1   |
| 08/27/95 | 7.1         | 6.1 | 6.70 | 1.0   | 6.5         | 5.6 | 6.11 | 0.9   |
| 08/28/95 | 7.3         | 6.3 | 6.81 | 1.0   | 6.5         | 5.6 | 6.05 | 0.9   |
| 08/29/95 | 7.3         | 6.3 | 6.79 | 1.0   | 6.3         | 5.2 | 5.85 | 1.1   |
| 08/30/95 | 7.1         | 6.1 | 6.67 | 1.0   | 6.3         | 5.2 | 5.81 | 1.1   |
| 08/31/95 | 7.5         | 6.1 | 6.86 | 1.4   | 6.5         | 5.4 | 5.92 | 1.1   |
| 09/01/95 | 7.8         | 6.7 | 7.31 | 1.1   | 6.9         | 5.6 | 6.29 | 1.3   |
| 09/02/95 | 8.8         | 7.8 | 8.36 | 1.0   | 7.7         | 6.9 | 7.30 | 0.8   |
| 09/03/95 | 9.0         | 8.2 | 8.68 | 0.8   | 7.8         | 7.1 | 7.52 | 0.7   |
| 09/04/95 | 9.2         | 8.4 | 8.81 | 0.8   | 8.0         | 7.1 | 7.50 | 0.9   |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS DDD and EEE in 1995

| DATE     | STATION DDD |         |         |         | STATION EEE |         |         |         |
|----------|-------------|---------|---------|---------|-------------|---------|---------|---------|
|          | MAX         | MIN     | MEAN    | RANGE   | MAX         | MIN     | MEAN    | RANGE   |
| 09/05/95 | 9.6         | 8.8     | 9.23    | 0.8     | 8.2         | 7.5     | 7.86    | 0.7     |
| 09/06/95 | 9.6         | 9.2     | 9.36    | 0.4     | 8.2         | 7.8     | 7.98    | 0.4     |
| 09/07/95 | 9.4         | 8.8     | 9.14    | 0.6     | 8.0         | 7.1     | 7.64    | 0.9     |
| 09/08/95 | 9.6         | 8.8     | 9.20    | 0.8     | 8.0         | 7.3     | 7.62    | 0.7     |
| 09/09/95 | 9.4         | 8.6     | 9.04    | 0.8     | 7.8         | 7.1     | 7.51    | 0.7     |
| 09/10/95 | 9.6         | 9.0     | 9.23    | 0.6     | 8.2         | 7.5     | 7.82    | 0.7     |
| 09/11/95 | 9.6         | 9.0     | 9.30    | 0.6     | 8.2         | 7.7     | 7.90    | 0.5     |
| 09/12/95 | 9.2         | 8.6     | 9.02    | 0.6     | 7.8         | 7.3     | 7.69    | 0.5     |
| 09/13/95 | 8.6         | 8.0     | 8.34    | 0.6     | 7.3         | 6.3     | 6.84    | 1.0     |
| 09/14/95 | 8.8         | 8.0     | 8.37    | 0.8     | 7.5         | 6.3     | 6.87    | 1.2     |
| 09/15/95 | 8.4         | 7.8     | 8.16    | 0.6     | 6.9         | 6.1     | 6.56    | 0.8     |
| 09/16/95 | 7.8         | 7.5     | 7.72    | 0.3     | 6.5         | 6.0     | 6.29    | 0.5     |
| 09/17/95 | 7.8         | 7.3     | 7.60    | 0.5     | 6.5         | 6.0     | 6.29    | 0.5     |
| 09/18/95 | 7.5         | 6.1     | 6.65    | 1.4     | 6.3         | 5.4     | 5.77    | 0.9     |
| 09/19/95 | 6.3         | 5.8     | 6.06    | 0.5     | 5.6         | 5.0     | 5.36    | 0.6     |
| 09/20/95 | 6.1         | 5.4     | 5.79    | 0.7     | 5.4         | 4.7     | 5.03    | 0.7     |
| 09/21/95 | 6.3         | 5.8     | 6.10    | 0.5     | 5.6         | 4.9     | 5.19    | 0.7     |
| 09/22/95 | 6.7         | 6.0     | 6.40    | 0.7     | 5.6         | 4.7     | 5.13    | 0.9     |
| 09/23/95 | 7.3         | 6.5     | 6.86    | 0.8     | 6.0         | 5.2     | 5.60    | 0.8     |
| 09/24/95 | 7.5         | 6.9     | 7.15    | 0.6     | 6.0         | 5.4     | 5.76    | 0.6     |
| 09/25/95 | 7.7         | 7.1     | 7.33    | 0.6     | 6.0         | 5.4     | 5.72    | 0.6     |
| 09/26/95 | 7.8         | 7.5     | 7.58    | 0.3     | 6.1         | 6.0     | 6.05    | 0.1     |
| 09/27/95 | 7.5         | 6.9     | 7.25    | 0.6     | 6.1         | 5.6     | 5.89    | 0.5     |
| 09/28/95 | 7.5         | 6.9     | 7.19    | 0.6     | 6.5         | 6.0     | 6.18    | 0.5     |
| 09/29/95 | 6.9         | 6.3     | 6.60    | 0.6     | 6.1         | 5.4     | 5.84    | 0.7     |
| 09/30/95 | 6.5         | 5.2     | 5.98    | 1.3     | 5.8         | 4.7     | 5.30    | 1.1     |
| 10/01/95 |             | 4.9     |         |         |             | 4.3     |         |         |
| COUNT    | 106         | 106     | 105     | 105     | 106         | 106     | 105     | 105     |
| MAX      | 11.5        | 10.7    | 11.0958 | 2.1     | 11.1        | 10.0    | 10.5708 | 2.5     |
| MIN      | 6.1         | 4.9     | 5.79375 | 0.3     | 5.4         | 4.3     | 5.03333 | 0.1     |
| MEAN     | 8.60189     | 7.59245 | 8.13536 | 0.9981  | 8.1858      | 7.13208 | 7.67147 | 1.02667 |
| ST.DEV   | 1.16748     | 1.15536 | 1.12482 | 0.39593 | 1.4429      | 1.29939 | 1.32716 | 0.44235 |
| VARIANCE | 1.36302     | 1.33485 | 1.26522 | 0.15676 | 2.082       | 1.68841 | 1.76136 | 0.19567 |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS FFF and III in 1993

| DATE     | STATION FFF* |      |       |       | STATION III |      |       |       |
|----------|--------------|------|-------|-------|-------------|------|-------|-------|
|          | MAX          | MIN  | MEAN  | RANGE | MAX         | MIN  | MEAN  | RANGE |
| 07/29/93 | 9.3          |      |       |       | 8.6         |      |       |       |
| 07/30/93 | 8.5          | 7.6  | 8.08  | 0.90  | 8.6         |      |       |       |
| 07/31/93 | 9.7          | 7.9  | 8.81  | 1.80  | 9.2         | 7.8  | 8.52  | 1.40  |
| 08/01/93 | 11.0         | 8.9  | 9.92  | 2.10  | 9.8         | 8.8  | 9.29  | 1.00  |
| 08/02/93 | 13.4         | 9.1  | 10.72 | 4.30  | 10.4        | 8.6  | 9.64  | 1.80  |
| 08/03/93 | 13.8         | 9.1  | 11.06 | 4.70  | 10.9        | 9.0  | 10.08 | 1.90  |
| 08/04/93 | 14.5         | 9.7  | 11.70 | 4.80  | 11.5        | 9.6  | 10.72 | 1.90  |
| 08/05/93 | 15.0         | 10.1 | 12.21 | 4.90  | 12.1        | 10.2 | 11.23 | 1.90  |
| 08/06/93 | 13.6         | 10.1 | 11.71 | 3.50  | 11.9        | 10.7 | 11.30 | 1.20  |
| 08/07/93 | 13.2         | 9.9  | 11.50 | 3.30  | 11.3        | 9.6  | 10.62 | 1.70  |
| 08/08/93 | 11.2         | 10.1 | 10.68 | 1.10  | 11.1        | 10.7 | 10.94 | 0.40  |
| 08/09/93 | 10.6         | 9.3  | 9.91  | 1.30  | 10.9        | 9.8  | 10.20 | 1.10  |
| 08/10/93 |              |      | 10.00 |       | 9.8         | 8.2  | 9.13  | 1.60  |
| 08/11/93 |              |      | 10.60 |       | 9.6         | 7.8  | 8.84  | 1.80  |
| 08/12/93 |              |      | 10.90 |       | 10.2        | 9.2  | 9.64  | 1.00  |
| 08/13/93 |              |      | 10.70 |       | 9.6         | 8.8  | 9.28  | 0.80  |
| 08/14/93 |              |      | 10.70 |       | 9.6         | 8.4  | 9.13  | 1.20  |
| 08/15/93 |              |      | 10.60 |       | 9.6         | 7.8  | 8.84  | 1.80  |
| 08/16/93 |              |      | 10.70 |       | 10.4        | 8.4  | 9.50  | 2.00  |
| 08/17/93 |              |      | 11.00 |       | 10.7        | 9.2  | 9.97  | 1.50  |
| 08/18/93 |              |      | 10.90 |       | 10.2        | 9.2  | 9.81  | 1.00  |
| 08/19/93 |              |      | 10.90 |       | 10.0        | 8.8  | 9.59  | 1.20  |
| 08/20/93 |              |      | 11.00 |       | 10.0        | 9.0  | 9.66  | 1.00  |
| 08/21/93 |              |      | 11.00 |       | 10.4        | 9.8  | 10.05 | 0.60  |
| 08/22/93 |              |      | 10.70 |       | 10.2        | 9.6  | 9.88  | 0.60  |
| 08/23/93 |              |      | 10.60 |       | 10.0        | 8.8  | 9.71  | 1.20  |
| 08/24/93 |              |      | 9.80  |       | 8.6         | 8.0  | 8.39  | 0.60  |
| 08/25/93 |              |      | 9.90  |       | 8.8         | 8.2  | 8.48  | 0.60  |
| 08/26/93 |              |      | 9.60  |       | 8.4         | 7.5  | 7.98  | 0.90  |
| 08/27/93 |              |      | 9.50  |       | 8.2         | 7.1  | 7.70  | 1.10  |
| 08/28/93 |              |      | 9.20  |       | 7.7         | 6.1  | 7.10  | 1.60  |
| 08/29/93 |              |      | 8.80  |       | 7.5         | 6.0  | 6.87  | 1.50  |
| 08/30/93 |              |      | 9.00  |       | 7.8         | 6.3  | 7.11  | 1.50  |
| 08/31/93 |              |      | 9.90  |       | 9.2         | 7.7  | 8.31  | 1.50  |
| 09/01/93 |              |      | 10.20 |       | 9.0         | 8.2  | 8.68  | 0.80  |
| 09/02/93 | 12.5         | 8.5  | 10.33 | 4.00  | 9.0         | 8.2  | 8.65  | 0.80  |
| 09/03/93 | 12.3         | 8.7  | 10.34 | 3.60  | 9.0         | 8.4  | 8.71  | 0.60  |
| 09/04/93 | 12.0         | 8.5  | 10.03 | 3.50  | 8.6         | 8.0  | 8.17  | 0.60  |
| 09/05/93 | 12.3         | 8.3  | 10.10 | 4.00  | 8.2         | 7.7  | 7.89  | 0.50  |
| 09/06/93 | 12.0         | 8.7  | 10.23 | 3.30  | 8.0         | 7.7  | 7.86  | 0.30  |
| 09/07/93 | 12.5         | 8.9  | 10.49 | 3.60  | 8.2         | 7.8  | 7.91  | 0.40  |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS FFF and III in 1993

| DATE     | STATION FFF* |         |       |       | STATION III |         |         |         |
|----------|--------------|---------|-------|-------|-------------|---------|---------|---------|
|          | MAX          | MIN     | MEAN  | RANGE | MAX         | MIN     | MEAN    | RANGE   |
| 09/08/93 | 12.5         | 8.9     | 10.46 | 3.60  | 8.4         | 8.0     | 8.11    | 0.40    |
| 09/09/93 | 12.3         | 8.5     | 10.28 | 3.80  | 8.0         | 7.7     | 7.79    | 0.30    |
| 09/10/93 | 11.8         | 9.1     | 10.41 | 2.70  | 8.0         | 7.7     | 7.89    | 0.30    |
| 09/11/93 | 9.9          | 8.1     | 8.99  | 1.80  | 8.0         | 7.3     | 7.75    | 0.70    |
| 09/12/93 | 10.1         | 6.8     | 8.45  | 3.30  | 7.3         | 6.5     | 6.96    | 0.80    |
| 09/13/93 | 10.1         | 8.1     | 9.00  | 2.00  | 7.1         | 6.7     | 6.99    | 0.40    |
| 09/14/93 | 9.7          | 7.7     | 8.54  | 2.00  | 7.3         | 6.7     | 6.92    | 0.60    |
| 09/15/93 | 9.1          | 6.8     | 7.92  | 2.30  | 6.9         | 6.1     | 6.52    | 0.80    |
| 09/16/93 | 9.5          | 6.2     | 7.80  | 3.30  | 6.5         | 5.6     | 5.89    | 0.90    |
| 09/17/93 | 9.7          | 6.6     | 8.03  | 3.10  | 6.1         | 5.0     | 5.55    | 1.10    |
| 09/18/93 | 8.7          | 6.4     | 7.44  | 2.30  | 6.1         | 4.7     | 5.33    | 1.40    |
| 09/19/93 | 7.6          | 5.1     | 6.23  | 2.50  | 5.2         | 3.3     | 4.26    | 1.90    |
| 09/20/93 | 7.0          | 4.0     | 5.44  | 3.00  | 4.1         | 2.7     | 3.32    | 1.40    |
| 09/21/93 | 7.0          | 4.2     | 5.55  | 2.80  | 4.0         | 2.2     | 3.16    | 1.80    |
| 09/22/93 | 7.4          | 4.8     | 6.01  | 2.60  | 4.5         | 2.7     | 3.62    | 1.80    |
| 09/23/93 | 8.9          | 5.9     | 7.28  | 3.00  | 5.2         | 4.0     | 4.68    | 1.20    |
| 09/24/93 | 7.7          | 6.6     | 7.13  | 1.10  | 5.6         | 4.9     | 5.14    | 0.70    |
| 09/25/93 | 6.8          | 5.3     | 6.25  | 1.50  | 5.4         | 4.3     | 4.94    | 1.10    |
| 09/26/93 | 8.7          | 6.8     | 7.47  | 1.90  | 6.1         | 5.2     | 5.70    | 0.90    |
| 09/27/93 | 8.1          | 5.5     | 6.66  | 2.60  | 5.8         | 4.5     | 5.05    | 1.30    |
| 09/28/93 |              |         |       |       | 5.6         | 3.6     |         |         |
| COUNT    |              | 60      |       |       | 61          | 60      | 59      | 59      |
| MAX      |              | 12.2125 |       |       | 12.1        | 10.7    | 11.2979 | 2       |
| MIN      |              | 5.43542 |       |       | 4           | 2.2     | 3.16458 | 0.3     |
| MEAN     |              | 9.48929 |       |       | 8.4492      | 7.335   | 7.98215 | 1.09661 |
| ST.DEV.  |              | 1.64163 |       |       | 1.9994      | 2.0621  | 2.01975 | 0.49744 |
| VARIANCE |              | 2.69495 |       |       | 3.9976      | 4.25228 | 4.07938 | 0.24745 |

\* Station FFF lost data from Aug 10 - Sept 1.

By using stn EEE data and remaining stn FFF data  
mean temperatures for the period were obtained  
from a regression formulae.

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS FFF and III in 1994

| DATE     | STATION FFF |     |       |       | STATION III |      |       |       |
|----------|-------------|-----|-------|-------|-------------|------|-------|-------|
|          | MAX         | MIN | MEAN  | RANGE | MAX         | MIN  | MEAN  | RANGE |
| 06/08/94 | 8.2         |     |       |       |             |      |       | 7.3   |
| 06/09/94 | 8.4         | 6.1 | 7.34  | 2.3   | 7.5         | 5.2  | 6.50  | 2.3   |
| 06/10/94 | 8.8         | 6.1 | 7.48  | 2.7   | 7.7         | 5.4  | 6.60  | 2.3   |
| 06/11/94 | 9.4         | 7.3 | 8.17  | 2.1   | 8.0         | 6.5  | 7.40  | 1.5   |
| 06/12/94 | 7.3         | 6.3 | 6.98  | 1.0   | 7.5         | 5.8  | 6.33  | 1.7   |
| 06/13/94 | 7.5         | 6.7 | 7.16  | 0.8   | 6.9         | 6.1  | 6.48  | 0.8   |
| 06/14/94 | 7.5         | 5.2 | 6.36  | 2.3   | 6.9         | 5.2  | 5.94  | 1.7   |
| 06/15/94 | 8.2         | 6.3 | 7.28  | 1.9   | 7.1         | 5.4  | 6.23  | 1.7   |
| 06/16/94 | 8.6         | 6.9 | 7.87  | 1.7   | 7.5         | 5.6  | 6.54  | 1.9   |
| 06/17/94 | 8.4         | 6.9 | 7.83  | 1.5   | 7.5         | 5.6  | 6.65  | 1.9   |
| 06/18/94 | 8.8         | 6.7 | 8.01  | 2.1   | 7.8         | 5.4  | 6.76  | 2.4   |
| 06/19/94 | 9.0         | 7.1 | 7.97  | 1.9   | 7.8         | 5.8  | 6.94  | 2.0   |
| 06/20/94 | 10.2        | 6.9 | 8.52  | 3.3   | 8.8         | 5.8  | 7.32  | 3.0   |
| 06/21/94 | 11.5        | 7.5 | 9.37  | 4.0   | 9.4         | 6.5  | 8.15  | 2.9   |
| 06/22/94 | 12.6        | 8.2 | 10.26 | 4.4   | 10.2        | 7.5  | 8.96  | 2.7   |
| 06/23/94 | 12.6        | 9.6 | 11.07 | 3.0   | 10.7        | 9.2  | 10.02 | 1.5   |
| 06/24/94 | 12.8        | 9.4 | 10.90 | 3.4   | 10.4        | 9.2  | 9.95  | 1.2   |
| 06/25/94 | 12.6        | 8.8 | 10.46 | 3.8   | 10.4        | 8.6  | 9.68  | 1.8   |
| 06/26/94 | 13.5        | 8.8 | 10.58 | 4.7   | 10.4        | 9.0  | 9.68  | 1.4   |
| 06/27/94 | 10.9        | 8.0 | 9.09  | 2.9   | 9.4         | 8.0  | 8.68  | 1.4   |
| 06/28/94 | 8.6         | 7.3 | 7.94  | 1.3   | 8.0         | 7.1  | 7.59  | 0.9   |
| 06/29/94 | 9.8         | 7.1 | 8.21  | 2.7   | 8.2         | 7.1  | 7.64  | 1.1   |
| 06/30/94 | 8.4         | 6.9 | 7.69  | 1.5   | 8.0         | 7.1  | 7.59  | 0.9   |
| 07/01/94 | 9.8         | 7.5 | 8.45  | 2.3   | 8.6         | 7.5  | 7.96  | 1.1   |
| 07/02/94 | 8.4         | 7.7 | 8.06  | 0.7   | 8.4         | 7.5  | 7.81  | 0.9   |
| 07/03/94 | 9.2         | 7.1 | 8.08  | 2.1   | 8.2         | 6.7  | 7.49  | 1.5   |
| 07/04/94 | 8.4         | 7.5 | 8.00  | 0.9   | 7.8         | 7.1  | 7.53  | 0.7   |
| 07/05/94 | 10.4        | 6.9 | 8.84  | 3.5   | 9.2         | 6.5  | 7.85  | 2.7   |
| 07/06/94 | 10.9        | 8.4 | 9.36  | 2.5   | 9.2         | 8.2  | 8.80  | 1.0   |
| 07/07/94 | 10.2        | 8.2 | 9.07  | 2.0   | 9.2         | 8.4  | 8.80  | 0.8   |
| 07/08/94 | 9.6         | 7.3 | 8.23  | 2.3   | 8.6         | 7.5  | 8.01  | 1.1   |
| 07/09/94 | 11.3        | 6.5 | 8.55  | 4.8   | 8.6         | 6.9  | 7.89  | 1.7   |
| 07/10/94 | 12.1        | 6.9 | 9.14  | 5.2   | 9.0         | 7.1  | 8.23  | 1.9   |
| 07/11/94 | 12.8        | 7.5 | 9.81  | 5.3   | 9.6         | 7.5  | 8.79  | 2.1   |
| 07/12/94 | 13.0        | 8.4 | 10.48 | 4.6   | 10.4        | 8.4  | 9.63  | 2.0   |
| 07/13/94 | 13.5        | 9.2 | 10.82 | 4.3   | 11.1        | 9.4  | 10.33 | 1.7   |
| 07/14/94 | 12.4        | 9.6 | 10.87 | 2.8   | 11.3        | 9.8  | 10.57 | 1.5   |
| 07/15/94 | 14.2        | 9.6 | 11.50 | 4.6   | 11.7        | 10.0 | 11.07 | 1.7   |
| 07/16/94 | 12.8        | 9.8 | 10.92 | 3.0   | 11.3        | 10.4 | 10.91 | 0.9   |
| 07/17/94 | 12.6        | 9.6 | 10.60 | 3.0   | 11.1        | 10.0 | 10.45 | 1.1   |
| 07/18/94 | 11.9        | 9.2 | 10.54 | 2.7   | 11.1        | 9.8  | 10.33 | 1.3   |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS FFF and III in 1994

| STATION FFF |      |      |       |       | STATION III |      |       |       |  |
|-------------|------|------|-------|-------|-------------|------|-------|-------|--|
| DATE        | MAX  | MIN  | MEAN  | RANGE | MAX         | MIN  | MEAN  | RANGE |  |
| 07/19/94    | 14.2 | 9.0  | 11.31 | 5.2   | 11.3        | 9.0  | 10.29 | 2.3   |  |
| 07/20/94    | 15.1 | 9.6  | 12.01 | 5.5   | 11.9        | 9.4  | 10.84 | 2.5   |  |
| 07/21/94    | 15.1 | 9.8  | 12.16 | 5.3   | 11.9        | 9.6  | 10.97 | 2.3   |  |
| 07/22/94    | 15.1 | 9.4  | 12.02 | 5.7   | 11.7        | 8.8  | 10.45 | 2.9   |  |
| 07/23/94    | 15.8 | 10.2 | 12.86 | 5.6   | 12.6        | 9.8  | 11.31 | 2.8   |  |
| 07/24/94    | 16.3 | 11.7 | 13.78 | 4.6   | 13.5        | 11.5 | 12.50 | 2.0   |  |
| 07/25/94    | 14.6 | 11.7 | 12.84 | 2.9   | 12.8        | 11.5 | 12.19 | 1.3   |  |
| 07/26/94    | 14.6 | 10.7 | 12.35 | 3.9   | 12.6        | 11.1 | 11.94 | 1.5   |  |
| 07/27/94    | 14.6 | 10.2 | 12.50 | 4.4   | 12.1        | 10.2 | 11.37 | 1.9   |  |
| 07/28/94    | 14.9 | 11.5 | 13.19 | 3.4   | 12.6        | 11.1 | 11.90 | 1.5   |  |
| 07/29/94    | 13.7 | 11.1 | 12.25 | 2.6   | 12.1        | 10.7 | 11.35 | 1.4   |  |
| 07/30/94    | 13.0 | 9.6  | 11.29 | 3.4   | 10.4        | 9.2  | 9.87  | 1.2   |  |
| 07/31/94    | 11.1 | 9.0  | 10.30 | 2.1   | 9.6         | 8.0  | 8.88  | 1.6   |  |
| 08/01/94    | 12.6 | 9.8  | 11.27 | 2.8   | 10.4        | 9.0  | 9.70  | 1.4   |  |
| 08/02/94    | 14.6 | 10.4 | 12.63 | 4.2   | 11.5        | 9.6  | 10.68 | 1.9   |  |
| 08/03/94    | 13.0 | 11.5 | 12.37 | 1.5   | 11.7        | 10.4 | 11.18 | 1.3   |  |
| 08/04/94    | 14.2 | 11.3 | 12.70 | 2.9   | 12.1        | 10.7 | 11.40 | 1.4   |  |
| 08/05/94    | 12.4 | 10.4 | 11.56 | 2.0   | 11.3        | 9.8  | 10.33 | 1.5   |  |
| 08/06/94    | 10.2 | 9.0  | 9.70  | 1.2   | 10.0        | 9.2  | 9.64  | 0.8   |  |
| 08/07/94    | 12.1 | 9.4  | 10.53 | 2.7   | 11.1        | 9.8  | 10.39 | 1.3   |  |
| 08/08/94    | 12.1 | 9.2  | 10.67 | 2.9   | 10.9        | 9.2  | 10.11 | 1.7   |  |
| 08/09/94    | 11.3 | 10.0 | 10.63 | 1.3   | 10.7        | 10.0 | 10.32 | 0.7   |  |
| 08/10/94    | 12.8 | 9.0  | 10.83 | 3.8   | 10.4        | 8.8  | 9.71  | 1.6   |  |
| 08/11/94    | 13.9 | 9.4  | 11.56 | 4.5   | 10.7        | 8.8  | 9.91  | 1.9   |  |
| 08/12/94    | 14.4 | 10.2 | 12.26 | 4.2   | 11.3        | 9.4  | 10.50 | 1.9   |  |
| 08/13/94    | 14.6 | 11.1 | 12.83 | 3.5   | 11.9        | 10.2 | 11.06 | 1.7   |  |
| 08/14/94    | 14.6 | 11.5 | 12.94 | 3.1   | 11.7        | 10.7 | 11.22 | 1.0   |  |
| 08/15/94    | 12.4 | 10.7 | 11.50 | 1.7   | 10.9        | 9.4  | 10.15 | 1.5   |  |
| 08/16/94    | 12.6 | 9.8  | 11.18 | 2.8   | 10.2        | 8.8  | 9.58  | 1.4   |  |
| 08/17/94    | 13.5 | 10.2 | 11.79 | 3.3   | 10.7        | 8.8  | 9.73  | 1.9   |  |
| 08/18/94    | 13.7 | 10.9 | 12.51 | 2.8   | 10.9        | 9.4  | 10.26 | 1.5   |  |
| 08/19/94    | 14.2 | 11.3 | 12.75 | 2.9   | 11.1        | 9.6  | 10.51 | 1.5   |  |
| 08/20/94    | 13.7 | 10.7 | 12.20 | 3.0   | 10.4        | 9.2  | 9.95  | 1.2   |  |
| 08/21/94    | 12.4 | 10.0 | 11.35 | 2.4   | 10.2        | 9.2  | 9.85  | 1.0   |  |
| 08/22/94    | 12.6 | 9.8  | 11.11 | 2.8   | 10.4        | 9.0  | 9.58  | 1.4   |  |
| 08/23/94    | 10.2 | 8.6  | 9.61  | 1.6   | 9.0         | 7.8  | 8.44  | 1.2   |  |
| 08/24/94    | 10.4 | 8.0  | 9.33  | 2.4   | 8.6         | 7.5  | 8.05  | 1.1   |  |
| 08/25/94    | 11.1 | 7.7  | 9.45  | 3.4   | 7.7         | 6.3  | 7.17  | 1.4   |  |
| 08/26/94    | 11.1 | 7.8  | 9.57  | 3.3   | 7.7         | 6.1  | 6.93  | 1.6   |  |
| 08/27/94    | 11.3 | 8.2  | 10.01 | 3.1   | 7.8         | 6.5  | 7.24  | 1.3   |  |
| 08/28/94    | 11.9 | 9.0  | 10.64 | 2.9   | 8.8         | 6.9  | 7.84  | 1.9   |  |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS FFF and III in 1994

| STATION FFF |         |         |         |         | STATION III |         |         |         |  |
|-------------|---------|---------|---------|---------|-------------|---------|---------|---------|--|
| DATE        | MAX     | MIN     | MEAN    | RANGE   | MAX         | MIN     | MEAN    | RANGE   |  |
| 08/29/94    | 12.1    | 10.7    | 11.28   | 1.4     | 9.6         | 8.2     | 8.78    | 1.4     |  |
| 08/30/94    | 11.9    | 9.8     | 11.01   | 2.1     | 9.2         | 7.8     | 8.55    | 1.4     |  |
| 08/31/94    | 11.5    | 10.4    | 11.05   | 1.1     | 9.4         | 8.4     | 8.97    | 1.0     |  |
| 09/01/94    | 11.1    | 9.4     | 10.16   | 1.7     | 9.0         | 7.7     | 8.35    | 1.3     |  |
| 09/02/94    | 9.6     | 8.8     | 9.16    | 0.8     | 8.0         | 7.5     | 7.75    | 0.5     |  |
| 09/03/94    | 10.0    | 8.4     | 8.99    | 1.6     | 8.0         | 7.3     | 7.60    | 0.7     |  |
| 09/04/94    | 8.8     | 7.1     | 8.03    | 1.7     | 7.3         | 6.3     | 6.93    | 1.0     |  |
| 09/05/94    | 9.8     | 7.5     | 8.50    | 2.3     | 7.8         | 6.7     | 7.30    | 1.1     |  |
| 09/06/94    | 9.6     | 8.0     | 8.75    | 1.6     | 8.6         | 7.7     | 8.04    | 0.9     |  |
| 09/07/94    | 8.2     | 6.3     | 7.52    | 1.9     | 7.7         | 6.0     | 6.70    | 1.7     |  |
| 09/08/94    | 9.2     | 7.1     | 7.71    | 2.1     | 7.8         | 6.9     | 7.36    | 0.9     |  |
| 09/09/94    | 8.6     | 6.9     | 7.64    | 1.7     | 7.8         | 7.1     | 7.53    | 0.7     |  |
| 09/10/94    | 8.2     | 6.7     | 7.25    | 1.5     | 7.1         | 6.3     | 6.80    | 0.8     |  |
| 09/11/94    | 7.7     | 5.4     | 6.70    | 2.3     | 6.5         | 4.9     | 5.69    | 1.6     |  |
| 09/12/94    | 8.4     | 6.5     | 7.31    | 1.9     | 7.5         | 6.1     | 6.71    | 1.4     |  |
| 09/13/94    | 9.6     | 7.1     | 7.89    | 2.5     | 8.2         | 7.3     | 7.64    | 0.9     |  |
| 09/14/94    | 8.0     | 6.5     | 7.24    | 1.5     | 7.7         | 6.9     | 7.42    | 0.8     |  |
| 09/15/94    | 9.4     | 6.3     | 7.87    | 3.1     | 8.4         | 6.9     | 7.71    | 1.5     |  |
| 09/16/94    | 10.4    | 7.8     | 8.73    | 2.6     | 9.0         | 8.2     | 8.60    | 0.8     |  |
| 09/17/94    | 10.0    | 7.3     | 8.35    | 2.7     | 8.6         | 7.5     | 8.12    | 1.1     |  |
| 09/18/94    | 9.8     | 7.3     | 8.28    | 2.5     | 8.2         | 7.3     | 7.83    | 0.9     |  |
| 09/19/94    | 8.6     | 7.1     | 8.05    | 1.5     | 8.4         | 7.5     | 8.10    | 0.9     |  |
| 09/20/94    | 9.0     | 5.6     | 7.07    | 3.4     | 7.3         | 5.4     | 6.06    | 1.9     |  |
| 09/21/94    | 10.2    | 6.3     | 8.00    | 3.9     | 7.5         | 5.4     | 6.36    | 2.1     |  |
| 09/22/94    | 10.7    | 7.5     | 8.93    | 3.2     | 8.6         | 7.3     | 8.01    | 1.3     |  |
| 09/23/94    | 9.0     | 8.4     | 8.64    | 0.6     | 8.6         | 8.4     | 8.52    | 0.2     |  |
| 09/24/94    | 11.1    | 7.8     | 9.12    | 3.3     | 9.0         | 8.0     | 8.57    | 1.0     |  |
| 09/25/94    | 10.0    | 7.3     | 8.55    | 2.7     | 9.0         | 7.5     | 8.31    | 1.5     |  |
| 09/26/94    | 7.7     | 6.3     | 6.98    | 1.4     | 7.5         | 6.7     | 7.07    | 0.8     |  |
| 09/27/94    | 9.2     | 6.5     | 7.43    | 2.7     | 7.3         | 6.1     | 6.97    | 1.2     |  |
| 09/28/94    | 7.1     | 4.9     | 6.08    | 2.2     | 6.1         | 4.7     | 5.20    | 1.4     |  |
| 09/29/94    | 6.0     | 4.1     | 5.27    | 1.9     | 4.9         | 3.6     | 4.33    | 1.3     |  |
| 09/30/94    |         | 4.7     |         |         |             | 4.3     |         |         |  |
| COUNT       | 114     | 114     | 113     | 113     | 114         | 114     | 113     | 113     |  |
| MAX         | 16.3    | 11.7    | 13.775  | 5.7     | 13.5        | 11.5    | 12.5042 | 3.0     |  |
| MIN         | 6.0     | 4.1     | 5.26667 | 0.6     | 4.9         | 3.6     | 4.33125 | 0.2     |  |
| MEAN        | 11.1368 | 8.3614  | 9.69676 | 2.76903 | 9.3737      | 7.89211 | 8.70103 | 1.46814 |  |
| ST.DEV      | 2.33066 | 1.73456 | 1       |         |             |         |         |         |  |

## GATES CREEK WATER TEMPERATURE (°C) at STATION FFF in 1995

| STATION FFF |      |      |       |       |
|-------------|------|------|-------|-------|
| DATE        | MAX  | MIN  | MEAN  | RANGE |
| 06/17/95    | 9.4  |      |       |       |
| 06/18/95    | 10.7 | 6.9  | 8.64  | 3.8   |
| 06/19/95    | 11.7 | 8.0  | 9.39  | 3.7   |
| 06/20/95    | 13.5 | 8.4  | 10.47 | 5.1   |
| 06/21/95    | 13.7 | 8.2  | 10.57 | 5.5   |
| 06/22/95    | 12.6 | 9.0  | 10.32 | 3.6   |
| 06/23/95    | 10.9 | 8.0  | 9.29  | 2.9   |
| 06/24/95    | 10.9 | 7.5  | 8.67  | 3.4   |
| 06/25/95    | 10.4 | 6.1  | 7.89  | 4.3   |
| 06/26/95    | 11.9 | 5.8  | 8.44  | 6.1   |
| 06/27/95    | 13.9 | 6.7  | 9.83  | 7.2   |
| 06/28/95    | 14.9 | 7.8  | 10.95 | 7.1   |
| 06/29/95    | 15.3 | 8.6  | 11.56 | 6.7   |
| 06/30/95    | 16.1 | 9.2  | 12.28 | 6.9   |
| 07/01/95    | 12.4 | 10.2 | 11.22 | 2.2   |
| 07/02/95    | 14.9 | 9.4  | 11.75 | 5.5   |
| 07/03/95    | 13.5 | 9.6  | 11.24 | 3.9   |
| 07/04/95    | 11.5 | 9.2  | 10.35 | 2.3   |
| 07/05/95    | 11.5 | 8.8  | 10.02 | 2.7   |
| 07/06/95    | 12.6 | 7.8  | 10.01 | 4.8   |
| 07/07/95    | 12.1 | 8.2  | 10.35 | 3.9   |
| 07/08/95    | 10.9 | 9.2  | 9.96  | 1.7   |
| 07/09/95    | 12.8 | 8.4  | 10.41 | 4.4   |
| 07/10/95    | 10.0 | 8.6  | 9.36  | 1.4   |
| 07/11/95    | 9.0  | 8.0  | 8.63  | 1.0   |
| 07/12/95    | 10.2 | 8.0  | 9.04  | 2.2   |
| 07/13/95    | 10.2 | 8.6  | 9.26  | 1.6   |
| 07/14/95    | 10.4 | 8.4  | 9.25  | 2.0   |
| 07/15/95    | 10.7 | 7.7  | 9.20  | 3.0   |
| 07/16/95    | 11.9 | 8.6  | 10.14 | 3.3   |
| 07/17/95    | 13.7 | 9.0  | 10.95 | 4.7   |
| 07/18/95    | 14.6 | 9.2  | 11.59 | 5.4   |
| 07/19/95    | 15.8 | 9.6  | 12.35 | 6.2   |
| 07/20/95    | 14.9 | 10.7 | 12.60 | 4.2   |
| 07/21/95    | 15.6 | 10.4 | 12.74 | 5.2   |
| 07/22/95    | 15.6 | 10.9 | 12.89 | 4.7   |
| 07/23/95    | 13.7 | 10.7 | 11.90 | 3.0   |
| 07/24/95    | 10.9 | 9.6  | 10.23 | 1.3   |
| 07/25/95    | 13.7 | 9.4  | 10.98 | 4.3   |
| 07/26/95    | 13.3 | 9.0  | 10.58 | 4.3   |

## GATES CREEK WATER TEMPERATURE (°C) at STATION FFF in 1995

| STATION FFF |      |      |       |       |
|-------------|------|------|-------|-------|
| DATE        | MAX  | MIN  | MEAN  | RANGE |
| 07/27/95    | 11.5 | 7.8  | 9.32  | 3.7   |
| 07/28/95    | 9.6  | 6.9  | 8.45  | 2.7   |
| 07/29/95    | 13.5 | 7.5  | 9.86  | 6.0   |
| 07/30/95    | 10.9 | 8.2  | 9.30  | 2.7   |
| 07/31/95    | 12.1 | 8.2  | 9.90  | 3.9   |
| 08/01/95    | 12.6 | 9.0  | 10.46 | 3.6   |
| 08/02/95    | 12.1 | 9.0  | 10.42 | 3.1   |
| 08/03/95    | 13.5 | 9.2  | 10.97 | 4.3   |
| 08/04/95    | 14.4 | 10.2 | 11.73 | 4.2   |
| 08/05/95    | 10.9 | 8.8  | 9.88  | 2.1   |
| 08/06/95    | 11.7 | 7.8  | 9.52  | 3.9   |
| 08/07/95    | 12.4 | 7.8  | 9.80  | 4.6   |
| 08/08/95    | 11.5 | 8.0  | 9.70  | 3.5   |
| 08/09/95    | 11.7 | 8.4  | 10.20 | 3.3   |
| 08/10/95    | 11.5 | 9.4  | 10.17 | 2.1   |
| 08/11/95    | 12.8 | 8.8  | 10.35 | 4.0   |
| 08/12/95    | 13.0 | 7.7  | 9.93  | 5.3   |
| 08/13/95    | 11.9 | 8.4  | 9.72  | 3.5   |
| 08/14/95    | 10.0 | 7.5  | 8.98  | 2.5   |
| 08/15/95    | 8.6  | 6.3  | 7.62  | 2.3   |
| 08/16/95    | 9.4  | 5.8  | 7.63  | 3.6   |
| 08/17/95    | 10.2 | 6.1  | 8.22  | 4.1   |
| 08/18/95    | 9.6  | 7.1  | 8.40  | 2.5   |
| 08/19/95    | 9.0  | 7.3  | 8.11  | 1.7   |
| 08/20/95    | 8.8  | 7.1  | 8.01  | 1.7   |
| 08/21/95    | 10.0 | 7.5  | 8.44  | 2.5   |
| 08/22/95    | 9.2  | 7.7  | 8.33  | 1.5   |
| 08/23/95    | 9.2  | 6.5  | 7.71  | 2.7   |
| 08/24/95    | 8.8  | 6.5  | 7.55  | 2.3   |
| 08/25/95    | 8.2  | 6.1  | 7.21  | 2.1   |
| 08/26/95    | 9.6  | 5.8  | 7.35  | 3.8   |
| 08/27/95    | 9.6  | 5.6  | 7.37  | 4.0   |
| 08/28/95    | 9.8  | 6.0  | 7.59  | 3.8   |
| 08/29/95    | 9.8  | 5.6  | 7.39  | 4.2   |
| 08/30/95    | 11.1 | 5.4  | 7.65  | 5.7   |
| 08/31/95    | 10.2 | 5.8  | 7.85  | 4.4   |
| 09/01/95    | 10.0 | 6.3  | 8.37  | 3.7   |
| 09/02/95    | 12.6 | 8.4  | 10.04 | 4.2   |
| 09/03/95    | 12.1 | 8.6  | 10.16 | 3.5   |
| 09/04/95    | 13.0 | 8.2  | 10.17 | 4.8   |

## GATES CREEK WATER TEMPERATURE (°C) at STATION FFF in 1995

| STATION FFF |         |         |         |         |
|-------------|---------|---------|---------|---------|
| DATE        | MAX     | MIN     | MEAN    | RANGE   |
| 09/05/95    | 12.4    | 9.2     | 10.70   | 3.2     |
| 09/06/95    | 12.4    | 10.0    | 10.96   | 2.4     |
| 09/07/95    | 12.6    | 8.6     | 10.46   | 4.0     |
| 09/08/95    | 12.6    | 9.0     | 10.59   | 3.6     |
| 09/09/95    | 11.3    | 8.8     | 10.12   | 2.5     |
| 09/10/95    | 11.5    | 9.8     | 10.54   | 1.7     |
| 09/11/95    | 11.5    | 10.0    | 10.67   | 1.5     |
| 09/12/95    | 11.5    | 9.6     | 10.47   | 1.9     |
| 09/13/95    | 10.7    | 8.2     | 9.45    | 2.5     |
| 09/14/95    | 10.9    | 8.6     | 9.52    | 2.3     |
| 09/15/95    | 10.0    | 8.0     | 9.14    | 2.0     |
| 09/16/95    | 9.8     | 7.7     | 8.83    | 2.1     |
| 09/17/95    | 10.0    | 8.0     | 9.03    | 2.0     |
| 09/18/95    | 9.6     | 7.5     | 8.28    | 2.1     |
| 09/19/95    | 8.4     | 6.7     | 7.43    | 1.7     |
| 09/20/95    | 8.0     | 5.8     | 6.94    | 2.2     |
| 09/21/95    | 8.4     | 6.3     | 7.45    | 2.1     |
| 09/22/95    | 8.6     | 6.5     | 7.56    | 2.1     |
| 09/23/95    | 9.2     | 7.1     | 8.15    | 2.1     |
| 09/24/95    | 9.2     | 7.5     | 8.41    | 1.7     |
| 09/25/95    | 9.2     | 7.7     | 8.45    | 1.5     |
| 09/26/95    | 9.2     | 8.8     | 9.05    | 0.4     |
| 09/27/95    | 9.0     | 7.5     | 8.36    | 1.5     |
| 09/28/95    | 9.6     | 7.8     | 8.51    | 1.8     |
| 09/29/95    | 7.8     | 6.5     | 7.38    | 1.3     |
| 09/30/95    | 7.7     | 6.0     | 6.86    | 1.7     |
| 10/01/95    |         | 4.9     |         |         |
| COUNT       | 106     | 106     | 105     | 105     |
| MAX         | 16.1    | 10.9    | 12.8854 | 7.2     |
| MIN         | 7.7     | 4.9     | 6.85833 | 0.4     |
| MEAN        | 11.3189 | 7.99811 | 9.50861 | 3.30952 |
| ST.DEV      | 1.99188 | 1.32857 | 1.41297 | 1.46966 |
| VARIANCE    | 3.96757 | 1.76509 | 1.99649 | 2.15991 |

## GATES CREEK WATER TEMPERATURE (°C) at STATION GGG in 1993

| WEST     |      |     |      |       | EAST** |     |      |       |
|----------|------|-----|------|-------|--------|-----|------|-------|
| DATE     | MAX  | MIN | MEAN | RANGE | MAX    | MIN | MEAN | RANGE |
| 07/29/93 | 7.8  |     |      |       |        |     |      | 8.94  |
| 07/30/93 | 7.7  | 7.3 | 7.53 | 0.40  |        |     |      | 9.07  |
| 07/31/93 | 8.2  | 7.3 | 7.67 | 0.90  |        |     |      | 9.45  |
| 08/01/93 | 8.4  | 7.7 | 8.06 | 0.70  |        |     |      | 9.70  |
| 08/02/93 | 9.0  | 7.8 | 8.31 | 1.20  |        |     |      | 9.95  |
| 08/03/93 | 9.2  | 8.0 | 8.57 | 1.20  |        |     |      | 10.39 |
| 08/04/93 | 9.6  | 8.6 | 9.02 | 1.00  |        |     |      | 10.79 |
| 08/05/93 | 10.2 | 9.0 | 9.44 | 1.20  |        |     |      | 10.79 |
| 08/06/93 | 9.8  | 9.2 | 9.43 | 0.60  |        |     |      | 10.58 |
| 08/07/93 | 9.6  | 8.8 | 9.21 | 0.80  |        |     |      | 10.55 |
| 08/08/93 | 9.4  | 8.8 | 9.19 | 0.60  |        |     |      | 9.99  |
| 08/09/93 | 8.8  | 8.4 | 8.61 | 0.40  |        |     |      | 9.44  |
| 08/10/93 | 8.6  | 7.7 | 8.04 | 0.90  |        |     |      | 9.35  |
| 08/11/93 | 8.4  | 7.5 | 7.95 | 0.90  |        |     |      | 9.67  |
| 08/12/93 | 8.6  | 8.0 | 8.28 | 0.60  |        |     |      | 10.19 |
| 08/13/93 | 8.6  | 7.8 | 8.17 | 0.80  |        |     |      | 10.27 |
| 08/14/93 | 8.6  | 7.8 | 8.09 | 0.80  |        |     |      | 10.22 |
| 08/15/93 | 8.6  | 7.5 | 8.06 | 1.10  |        |     |      | 10.42 |
| 08/16/93 | 9.2  | 8.0 | 8.48 | 1.20  |        |     |      | 10.67 |
| 08/17/93 | 9.4  | 8.4 | 8.82 | 1.00  |        |     |      | 10.47 |
| 08/18/93 | 9.4  | 8.4 | 8.90 | 1.00  |        |     |      | 9.92  |
| 08/19/93 | 9.2  | 8.4 | 8.85 | 0.80  |        |     |      | 9.10  |
| 08/20/93 | 9.6  | 8.6 | 9.05 | 1.00  |        |     |      | 9.16  |
| 08/21/93 | 10.0 | 9.0 | 9.31 | 1.00  |        |     |      | 8.94  |
| 08/22/93 | 9.4  | 8.8 | 9.10 | 0.60  |        |     |      | 8.78  |
| 08/23/93 | 9.0  | 7.8 | 8.54 | 1.20  |        |     |      | 8.50  |
| 08/24/93 | 7.8  | 7.5 | 7.70 | 0.30  |        |     |      | 8.29  |
| 08/25/93 | 8.0  | 7.5 | 7.76 | 0.50  |        |     |      | 8.53  |
| 08/26/93 | 7.8  | 7.3 | 7.53 | 0.50  |        |     |      | 9.54  |
| 08/27/93 | 7.7  | 7.1 | 7.37 | 0.60  |        |     |      | 9.70  |
| 08/28/93 | 7.5  | 6.7 | 7.08 | 0.80  |        |     |      | 9.80  |
| 08/29/93 | 7.3  | 6.3 | 6.86 | 1.00  |        |     |      | 9.54  |
| 08/30/93 | 7.7  | 6.5 | 7.10 | 1.20  |        |     |      | 9.48  |
| 08/31/93 | 8.6  | 7.3 | 7.89 | 1.30  |        |     |      | 9.58  |
| 09/01/93 | 8.6  | 7.8 | 8.14 | 0.80  |        |     |      | 9.73  |
| 09/02/93 | 8.8  | 7.8 | 8.31 | 1.00  |        |     |      |       |
| 09/03/93 | 8.8  | 8.0 | 8.42 | 0.80  |        |     |      |       |
| 09/04/93 | 8.6  | 7.8 | 8.15 | 0.80  |        |     |      |       |
| 09/05/93 | 8.6  | 7.7 | 8.09 | 0.90  |        |     |      |       |
| 09/06/93 | 8.6  | 7.8 | 8.19 | 0.80  |        |     |      |       |
| 09/07/93 | 8.8  | 7.8 | 8.34 | 1.00  |        |     |      |       |

## GATES CREEK WATER TEMPERATURE (°C) at STATION GGG in 1993

| DATE     | WEST    |         |         |         | EAST** |         |      |       |
|----------|---------|---------|---------|---------|--------|---------|------|-------|
|          | MAX     | MIN     | MEAN    | RANGE   | MAX    | MIN     | MEAN | RANGE |
| 09/08/93 | 8.8     | 8.0     | 8.37    | 0.80    |        | 9.75    |      |       |
| 09/09/93 | 8.4     | 7.7     | 8.07    | 0.70    |        | 9.47    |      |       |
| 09/10/93 | 8.6     | 8.0     | 8.25    | 0.60    |        | 9.64    |      |       |
| 09/11/93 | 8.0     | 7.3     | 7.66    | 0.70    |        | 9.06    |      |       |
| 09/12/93 | 7.3     | 6.5     | 6.89    | 0.80    |        | 8.32    |      |       |
| 09/13/93 | 7.7     | 6.9     | 7.26    | 0.80    |        | 8.68    |      |       |
| 09/14/93 | 7.5     | 6.9     | 7.17    | 0.60    |        | 8.59    |      |       |
| 09/15/93 | 7.1     | 6.3     | 6.75    | 0.80    |        | 8.18    |      |       |
| 09/16/93 | 6.5     | 5.8     | 6.21    | 0.70    |        | 7.66    |      |       |
| 09/17/93 | 6.5     | 5.8     | 6.14    | 0.70    |        | 7.59    |      |       |
| 09/18/93 | 6.1     | 5.0     | 5.78    | 1.10    |        | 7.24    |      |       |
| 09/19/93 | 5.0     | 4.3     | 4.75    | 0.70    |        | 6.24    |      |       |
| 09/20/93 | 4.3     | 3.6     | 4.03    | 0.70    |        | 5.54    |      |       |
| 09/21/93 | 4.5     | 3.4     | 4.03    | 1.10    |        | 5.54    |      |       |
| 09/22/93 | 4.9     | 4.0     | 4.43    | 0.90    |        | 5.93    |      |       |
| 09/23/93 | 5.8     | 4.9     | 5.30    | 0.90    |        | 6.77    |      |       |
| 09/24/93 | 6.0     | 5.4     | 5.62    | 0.60    |        | 7.08    |      |       |
| 09/25/93 | 5.8     | 4.9     | 5.40    | 0.90    |        | 6.87    |      |       |
| 09/26/93 | 6.5     | 5.8     | 6.13    | 0.70    |        | 7.58    |      |       |
| 09/27/93 | 6.0     | 5.2     | 5.46    | 0.80    |        | 6.93    |      |       |
| 09/28/93 | 5.2     | 4.7     |         |         |        |         |      |       |
| COUNT    | 62      | 61      | 60      | 60      |        | 60      |      |       |
| MAX      | 10.2    | 9.2     | 9.43542 | 1.3     |        | 10.7916 |      |       |
| MIN      | 4.3     | 3.4     | 4.03021 | 0.3     |        | 5.53929 |      |       |
| MEAN     | 7.96774 | 7.1459  | 7.58852 | 0.83    |        | 8.99692 |      |       |
| ST.DEV.  | 1.4184  | 1.40276 | 1.35711 | 0.22234 |        | 1.31871 |      |       |
| VARIANCE | 2.01186 | 1.96773 | 1.84174 | 0.04943 |        | 1.73899 |      |       |

\*\* No data recorded at stn GGG east in 1993.

Mean temperatures were obtained by using 1994 data to find a relationship between GGG east and GGG west, then applying the resulting regression formulae to 1993 GGG west data.

## GATES CREEK WATER TEMPERATURE (°C) at STATION GGG in 1994

| DATE     | WEST |     |      |       | EAST |      |      |       |
|----------|------|-----|------|-------|------|------|------|-------|
|          | MAX  | MIN | MEAN | RANGE | MAX  | MIN  | MEAN | RANGE |
| 06/08/94 | 6.0  |     |      |       |      | 7.8  |      |       |
| 06/09/94 | 6.3  | 4.3 | 5.19 | 2.0   |      | 8.0  | 6.1  | 7.22  |
| 06/10/94 | 6.0  | 4.3 | 5.16 | 1.7   |      | 8.2  | 6.1  | 7.23  |
| 06/11/94 | 6.5  | 4.9 | 5.60 | 1.6   |      | 8.8  | 7.3  | 7.98  |
| 06/12/94 | 5.2  | 4.5 | 4.85 | 0.7   |      | 7.7  | 6.3  | 6.95  |
| 06/13/94 | 5.8  | 5.2 | 5.52 | 0.6   |      | 7.5  | 6.9  | 7.26  |
| 06/14/94 | 5.4  | 4.9 | 5.13 | 0.5   |      | 7.3  | 5.6  | 6.39  |
| 06/15/94 | 6.0  | 4.9 | 5.38 | 1.1   |      | 7.8  | 6.5  | 7.17  |
| 06/16/94 | 6.1  | 5.2 | 5.76 | 0.9   |      | 8.2  | 7.1  | 7.70  |
| 06/17/94 | 6.1  | 5.2 | 5.68 | 0.9   |      | 8.0  | 7.1  | 7.72  |
| 06/18/94 | 6.3  | 4.9 | 5.62 | 1.4   |      | 8.6  | 6.7  | 7.82  |
| 06/19/94 | 6.7  | 5.2 | 5.90 | 1.5   |      | 8.8  | 7.1  | 7.99  |
| 06/20/94 | 7.1  | 5.0 | 5.93 | 2.1   |      | 9.2  | 6.9  | 8.17  |
| 06/21/94 | 7.5  | 5.4 | 6.35 | 2.1   |      | 10.0 | 7.5  | 8.83  |
| 06/22/94 | 8.0  | 6.0 | 6.87 | 2.0   |      | 10.7 | 8.4  | 9.64  |
| 06/23/94 | 8.4  | 6.9 | 7.50 | 1.5   |      | 11.1 | 9.6  | 10.45 |
| 06/24/94 | 8.4  | 7.1 | 7.61 | 1.3   |      | 11.1 | 9.8  | 10.49 |
| 06/25/94 | 8.4  | 6.7 | 7.53 | 1.7   |      | 11.1 | 9.4  | 10.28 |
| 06/26/94 | 8.2  | 6.9 | 7.46 | 1.3   |      | 10.9 | 9.4  | 10.05 |
| 06/27/94 | 7.3  | 6.3 | 6.84 | 1.0   |      | 9.8  | 8.6  | 9.15  |
| 06/28/94 | 6.3  | 6.0 | 6.15 | 0.3   |      | 8.4  | 7.8  | 8.10  |
| 06/29/94 | 6.5  | 5.8 | 6.12 | 0.7   |      | 8.4  | 7.5  | 7.99  |
| 06/30/94 | 6.3  | 5.6 | 6.02 | 0.7   |      | 8.2  | 7.3  | 7.76  |
| 07/01/94 | 6.7  | 6.0 | 6.31 | 0.7   |      | 8.8  | 7.7  | 8.19  |
| 07/02/94 | 6.5  | 6.1 | 6.22 | 0.4   |      | 8.4  | 7.8  | 8.10  |
| 07/03/94 | 6.9  | 6.0 | 6.44 | 0.9   |      | 8.6  | 7.3  | 8.03  |
| 07/04/94 | 6.5  | 6.1 | 6.28 | 0.4   |      | 8.4  | 7.7  | 8.00  |
| 07/05/94 | 7.3  | 5.8 | 6.53 | 1.5   |      | 9.4  | 7.5  | 8.41  |
| 07/06/94 | 7.7  | 6.7 | 7.14 | 1.0   |      | 9.6  | 8.6  | 9.18  |
| 07/07/94 | 7.7  | 6.7 | 7.10 | 1.0   |      | 9.4  | 8.8  | 9.10  |
| 07/08/94 | 7.1  | 6.1 | 6.50 | 1.0   |      | 8.8  | 7.8  | 8.28  |
| 07/09/94 | 7.3  | 5.8 | 6.49 | 1.5   |      | 8.8  | 7.5  | 8.19  |
| 07/10/94 | 7.7  | 6.1 | 6.75 | 1.6   |      | 9.2  | 7.8  | 8.52  |
| 07/11/94 | 7.8  | 6.3 | 7.05 | 1.5   |      | 9.8  | 8.2  | 9.04  |
| 07/12/94 | 8.2  | 7.1 | 7.58 | 1.1   |      | 10.4 | 9.0  | 9.77  |
| 07/13/94 | 8.6  | 7.5 | 7.96 | 1.1   |      | 10.9 | 9.8  | 10.40 |
| 07/14/94 | 8.6  | 7.7 | 8.09 | 0.9   |      | 10.9 | 10.2 | 10.56 |
| 07/15/94 | 9.0  | 7.8 | 8.32 | 1.2   |      | 11.5 | 10.2 | 10.86 |
| 07/16/94 | 9.0  | 8.2 | 8.49 | 0.8   |      | 11.3 | 10.7 | 11.00 |
| 07/17/94 | 8.6  | 8.0 | 8.31 | 0.6   |      | 10.9 | 10.2 | 10.57 |
| 07/18/94 | 9.0  | 7.8 | 8.30 | 1.2   |      | 10.7 | 10.0 | 10.31 |

## GATES CREEK WATER TEMPERATURE (°C) at STATION GGG in 1994

| DATE     | WEST |     |       |       | EAST |      |       |       |
|----------|------|-----|-------|-------|------|------|-------|-------|
|          | MAX  | MIN | MEAN  | RANGE | MAX  | MIN  | MEAN  | RANGE |
| 07/19/94 | 9.2  | 7.8 | 8.41  | 1.4   | 11.1 | 9.8  | 10.51 | 1.3   |
| 07/20/94 | 9.4  | 8.2 | 8.74  | 1.2   | 11.7 | 10.2 | 11.00 | 1.5   |
| 07/21/94 | 9.6  | 8.2 | 8.91  | 1.4   | 11.7 | 10.7 | 11.22 | 1.0   |
| 07/22/94 | 9.8  | 8.0 | 8.83  | 1.8   | 11.7 | 10.0 | 10.94 | 1.7   |
| 07/23/94 | 10.2 | 8.6 | 9.38  | 1.6   | 12.1 | 10.7 | 11.48 | 1.4   |
| 07/24/94 | 10.9 | 9.6 | 10.13 | 1.3   | 13.0 | 11.7 | 12.34 | 1.3   |
| 07/25/94 | 10.9 | 9.8 | 10.24 | 1.1   | 12.8 | 12.1 | 12.46 | 0.7   |
| 07/26/94 | 10.7 | 9.4 | 10.03 | 1.3   | 12.6 | 11.7 | 12.11 | 0.9   |
| 07/27/94 | 10.4 | 9.2 | 9.77  | 1.2   | 12.1 | 11.1 | 11.70 | 1.0   |
| 07/28/94 | 10.7 | 9.6 | 10.05 | 1.1   | 12.4 | 11.5 | 11.94 | 0.9   |
| 07/29/94 | 10.7 | 9.4 | 9.88  | 1.3   | 11.9 | 11.1 | 11.59 | 0.8   |
| 07/30/94 | 9.4  | 8.8 | 9.10  | 0.6   | 11.1 | 10.2 | 10.66 | 0.9   |
| 07/31/94 | 9.0  | 8.0 | 8.61  | 1.0   | 10.2 | 9.4  | 9.93  | 0.8   |
| 08/01/94 | 9.4  | 8.6 | 8.97  | 0.8   | 10.7 | 9.8  | 10.25 | 0.9   |
| 08/02/94 | 10.0 | 8.8 | 9.38  | 1.2   | 11.5 | 10.2 | 10.82 | 1.3   |
| 08/03/94 | 10.2 | 9.4 | 9.75  | 0.8   | 11.7 | 10.9 | 11.24 | 0.8   |
| 08/04/94 | 10.4 | 9.6 | 9.95  | 0.8   | 11.9 | 11.1 | 11.56 | 0.8   |
| 08/05/94 | 9.8  | 9.2 | 9.43  | 0.6   | 11.5 | 10.4 | 10.91 | 1.1   |
| 08/06/94 | 9.2  | 8.6 | 8.90  | 0.6   | 10.4 | 9.8  | 10.10 | 0.6   |
| 08/07/94 | 9.8  | 8.8 | 9.21  | 1.0   | 10.9 | 10.0 | 10.48 | 0.9   |
| 08/08/94 | 9.8  | 8.8 | 9.28  | 1.0   | 10.9 | 10.0 | 10.55 | 0.9   |
| 08/09/94 | 9.6  | 9.2 | 9.37  | 0.4   | 10.9 | 10.4 | 10.78 | 0.5   |
| 08/10/94 | 9.6  | 8.6 | 9.14  | 1.0   | 10.9 | 9.8  | 10.43 | 1.1   |
| 08/11/94 | 10.0 | 8.8 | 9.27  | 1.2   | 11.1 | 9.8  | 10.51 | 1.3   |
| 08/12/94 | 10.4 | 9.0 | 9.65  | 1.4   | 11.5 | 10.2 | 10.88 | 1.3   |
| 08/13/94 | 10.4 | 9.4 | 9.92  | 1.0   | 11.7 | 10.9 | 11.30 | 0.8   |
| 08/14/94 | 10.7 | 9.6 | 10.03 | 1.1   | 11.7 | 11.1 | 11.41 | 0.6   |
| 08/15/94 | 10.0 | 9.2 | 9.62  | 0.8   | 11.1 | 10.4 | 10.89 | 0.7   |
| 08/16/94 | 10.0 | 9.0 | 9.45  | 1.0   | 10.9 | 10.0 | 10.51 | 0.9   |
| 08/17/94 | 10.2 | 9.2 | 9.60  | 1.0   | 11.1 | 10.2 | 10.65 | 0.9   |
| 08/18/94 | 10.4 | 9.4 | 9.84  | 1.0   | 11.5 | 10.4 | 10.99 | 1.1   |
| 08/19/94 | 10.7 | 9.4 | 9.93  | 1.3   | 11.5 | 10.7 | 11.11 | 0.8   |
| 08/20/94 | 10.0 | 9.2 | 9.64  | 0.8   | 11.1 | 10.2 | 10.75 | 0.9   |
| 08/21/94 | 10.0 | 9.0 | 9.53  | 1.0   | 10.9 | 10.2 | 10.56 | 0.7   |
| 08/22/94 | 9.6  | 8.8 | 9.28  | 0.8   | 10.4 | 9.6  | 10.16 | 0.8   |
| 08/23/94 | 8.8  | 8.2 | 8.54  | 0.6   | 9.6  | 9.0  | 9.22  | 0.6   |
| 08/24/94 | 8.6  | 7.8 | 8.21  | 0.8   | 9.2  | 8.6  | 8.89  | 0.6   |
| 08/25/94 | 8.2  | 7.3 | 7.72  | 0.9   | 8.8  | 7.8  | 8.41  | 1.0   |
| 08/26/94 | 8.0  | 7.1 | 7.53  | 0.9   | 8.6  | 7.7  | 8.18  | 0.9   |
| 08/27/94 | 8.2  | 7.1 | 7.65  | 1.1   | 8.8  | 7.8  | 8.31  | 1.0   |
| 08/28/94 | 8.4  | 7.5 | 7.94  | 0.9   | 9.2  | 8.2  | 8.70  | 1.0   |

## GATES CREEK WATER TEMPERATURE (°C) at STATION GGG in 1994

| DATE     | WEST    |         |         |         | EAST   |         |         |         |
|----------|---------|---------|---------|---------|--------|---------|---------|---------|
|          | MAX     | MIN     | MEAN    | RANGE   | MAX    | MIN     | MEAN    | RANGE   |
| 08/29/94 | 9.0     | 8.2     | 8.50    | 0.8     | 9.6    | 9.0     | 9.27    | 0.6     |
| 08/30/94 | 8.6     | 7.8     | 8.28    | 0.8     | 9.4    | 8.8     | 9.13    | 0.6     |
| 08/31/94 | 8.8     | 8.2     | 8.54    | 0.6     | 9.6    | 9.0     | 9.32    | 0.6     |
| 09/01/94 | 8.6     | 7.7     | 8.10    | 0.9     | 9.2    | 8.6     | 8.90    | 0.6     |
| 09/02/94 | 7.8     | 7.7     | 7.78    | 0.1     | 8.6    | 8.2     | 8.43    | 0.4     |
| 09/03/94 | 8.0     | 7.5     | 7.73    | 0.5     | 8.4    | 8.0     | 8.17    | 0.4     |
| 09/04/94 | 7.7     | 7.1     | 7.45    | 0.6     | 8.0    | 7.5     | 7.84    | 0.5     |
| 09/05/94 | 8.0     | 7.1     | 7.52    | 0.9     | 8.2    | 7.5     | 7.93    | 0.7     |
| 09/06/94 | 8.4     | 7.7     | 7.92    | 0.7     | 8.6    | 8.0     | 8.28    | 0.6     |
| 09/07/94 | 7.7     | 6.7     | 7.26    | 1.0     | 8.2    | 7.1     | 7.59    | 1.1     |
| 09/08/94 | 7.8     | 7.3     | 7.51    | 0.5     | 8.2    | 7.7     | 7.84    | 0.5     |
| 09/09/94 | 7.7     | 7.1     | 7.45    | 0.6     | 8.0    | 7.7     | 7.78    | 0.3     |
| 09/10/94 | 7.5     | 6.9     | 7.10    | 0.6     | 7.7    | 7.1     | 7.43    | 0.6     |
| 09/11/94 | 6.9     | 6.0     | 6.51    | 0.9     | 7.3    | 6.3     | 6.82    | 1.0     |
| 09/12/94 | 7.5     | 6.7     | 7.05    | 0.8     | 7.7    | 6.9     | 7.28    | 0.8     |
| 09/13/94 | 7.7     | 7.3     | 7.45    | 0.4     | 8.0    | 7.5     | 7.75    | 0.5     |
| 09/14/94 | 7.5     | 6.9     | 7.25    | 0.6     | 7.8    | 7.5     | 7.69    | 0.3     |
| 09/15/94 | 7.8     | 6.9     | 7.35    | 0.9     | 8.2    | 7.3     | 7.78    | 0.9     |
| 09/16/94 | 8.2     | 7.5     | 7.79    | 0.7     | 8.8    | 8.0     | 8.40    | 0.8     |
| 09/17/94 | 8.2     | 7.5     | 7.81    | 0.7     | 8.8    | 8.2     | 8.50    | 0.6     |
| 09/18/94 | 8.0     | 7.5     | 7.71    | 0.5     | 8.6    | 8.0     | 8.37    | 0.6     |
| 09/19/94 | 8.0     | 7.3     | 7.81    | 0.7     | 8.6    | 8.0     | 8.43    | 0.6     |
| 09/20/94 | 7.3     | 6.1     | 6.66    | 1.2     | 7.8    | 6.5     | 7.14    | 1.3     |
| 09/21/94 | 7.5     | 6.3     | 6.92    | 1.2     | 7.8    | 6.9     | 7.32    | 0.9     |
| 09/22/94 | 8.2     | 7.3     | 7.67    | 0.9     | 8.6    | 7.8     | 8.20    | 0.8     |
| 09/23/94 | 8.0     | 7.8     | 7.86    | 0.2     | 8.6    | 8.4     | 8.53    | 0.2     |
| 09/24/94 | 8.4     | 7.7     | 7.97    | 0.7     | 9.0    | 8.4     | 8.70    | 0.6     |
| 09/25/94 | 8.2     | 7.3     | 7.73    | 0.9     | 8.8    | 7.8     | 8.43    | 1.0     |
| 09/26/94 | 7.1     | 6.7     | 6.97    | 0.4     | 7.8    | 7.3     | 7.56    | 0.5     |
| 09/27/94 | 7.1     | 6.3     | 6.87    | 0.8     | 7.5    | 6.9     | 7.31    | 0.6     |
| 09/28/94 | 6.1     | 5.4     | 5.79    | 0.7     | 6.9    | 5.8     | 6.13    | 1.1     |
| 09/29/94 | 5.6     | 4.7     | 5.19    | 0.9     | 5.8    | 4.9     | 5.30    | 0.9     |
| 09/30/94 |         |         | 5.2     |         |        |         | 5.0     |         |
| COUNT    | 114     | 114     | 113     | 113     | 114    | 114     | 113     | 113     |
| MAX      | 10.9    | 9.8     | 10.2417 | 2.1     | 13.0   | 12.1    | 12.4583 | 2.5     |
| MIN      | 5.2     | 4.3     | 4.84792 | 0.1     | 5.8    | 4.9     | 5.30208 | 0.2     |
| MEAN     | 8.29123 | 7.31228 | 7.79027 | 0.98053 | 9.6482 | 8.6386  | 9.19246 | 0.99381 |
| ST.DEV   | 1.43341 | 1.43894 | 1.40139 | 0.39819 | 1.5604 | 1.59652 | 1.55494 | 0.44529 |
| VARIANCE | 2.05466 |         |         |         |        |         |         |         |

## GATES CREEK WATER TEMPERATURE (°C) at STATION HHH in 1993

| DATE     | WEST |      |       |       | EAST |      |       |       |
|----------|------|------|-------|-------|------|------|-------|-------|
|          | MAX  | MIN  | MEAN  | RANGE | MAX  | MIN  | MEAN  | RANGE |
| 07/30/93 | 8.6  |      |       |       | 8.8  |      |       |       |
| 07/31/93 | 9.2  | 8.0  | 8.68  | 1.20  | 9.6  | 8.2  | 8.86  | 1.40  |
| 08/01/93 | 9.8  | 8.8  | 9.25  | 1.00  | 10.2 | 9.0  | 9.61  | 1.20  |
| 08/02/93 | 10.9 | 8.8  | 9.71  | 2.10  | 11.1 | 9.0  | 10.09 | 2.10  |
| 08/03/93 | 11.1 | 9.0  | 10.03 | 2.10  | 11.7 | 9.2  | 10.48 | 2.50  |
| 08/04/93 | 11.7 | 9.4  | 10.51 | 2.30  | 12.4 | 10.0 | 11.12 | 2.40  |
| 08/05/93 | 12.1 | 10.0 | 10.98 | 2.10  | 12.8 | 10.4 | 11.67 | 2.40  |
| 08/06/93 | 11.3 | 10.2 | 10.86 | 1.10  | 12.1 | 10.9 | 11.59 | 1.20  |
| 08/07/93 | 11.3 | 9.4  | 10.50 | 1.90  | 12.1 | 10.0 | 11.17 | 2.10  |
| 08/08/93 | 10.9 | 10.2 | 10.65 | 0.70  | 11.7 | 10.7 | 11.20 | 1.00  |
| 08/09/93 | 10.2 | 9.6  | 9.93  | 0.60  | 10.9 | 10.2 | 10.57 | 0.70  |
| 08/10/93 | 10.0 | 8.6  | 9.29  | 1.40  | 10.4 | 8.6  | 9.59  | 1.80  |
| 08/11/93 | 10.0 | 8.0  | 9.02  | 2.00  | 10.2 | 8.0  | 9.23  | 2.20  |
| 08/12/93 | 10.0 | 9.0  | 9.48  | 1.00  | 10.7 | 9.2  | 9.97  | 1.50  |
| 08/13/93 | 9.8  | 8.8  | 9.30  | 1.00  | 10.2 | 9.0  | 9.71  | 1.20  |
| 08/14/93 | 10.4 | 8.6  | 9.41  | 1.80  | 10.7 | 8.8  | 9.79  | 1.90  |
| 08/15/93 | 10.4 | 8.0  | 9.25  | 2.40  | 10.7 | 8.2  | 9.59  | 2.50  |
| 08/16/93 | 10.9 | 8.8  | 9.77  | 2.10  | 11.1 | 9.0  | 10.15 | 2.10  |
| 08/17/93 | 10.9 | 9.2  | 10.03 | 1.70  | 11.1 | 9.4  | 10.39 | 1.70  |
| 08/18/93 | 10.7 | 9.0  | 9.92  | 1.70  | 11.1 | 9.4  | 10.38 | 1.70  |
| 08/19/93 | 10.7 | 8.8  | 9.87  | 1.90  | 11.1 | 9.2  | 10.35 | 1.90  |
| 08/20/93 | 10.9 | 9.2  | 10.01 | 1.70  | 11.3 | 9.4  | 10.51 | 1.90  |
| 08/21/93 | 11.3 | 10.0 | 10.52 | 1.30  | 11.7 | 10.4 | 11.04 | 1.30  |
| 08/22/93 | 10.4 | 9.6  | 10.05 | 0.80  | 11.1 | 10.2 | 10.51 | 0.90  |
| 08/23/93 | 10.2 | 8.8  | 9.54  | 1.40  | 10.4 | 9.0  | 9.96  | 1.40  |
| 08/24/93 | 8.8  | 8.4  | 8.58  | 0.40  | 9.0  | 8.4  | 8.77  | 0.60  |
| 08/25/93 | 9.0  | 8.4  | 8.64  | 0.60  | 9.2  | 8.4  | 8.83  | 0.80  |
| 08/26/93 | 8.6  | 7.8  | 8.24  | 0.80  | 8.8  | 7.8  | 8.33  | 1.00  |
| 08/27/93 | 8.6  | 7.5  | 8.05  | 1.10  | 8.8  | 7.5  | 8.16  | 1.30  |
| 08/28/93 | 8.4  | 6.7  | 7.66  | 1.70  | 8.6  | 6.7  | 7.71  | 1.90  |
| 08/29/93 | 8.6  | 6.5  | 7.54  | 2.10  | 8.2  | 6.3  | 7.49  | 1.90  |
| 08/30/93 | 9.0  | 6.7  | 7.91  | 2.30  | 8.8  | 6.7  | 7.82  | 2.10  |
| 08/31/93 | 9.8  | 8.2  | 8.97  | 1.60  | 10.0 | 8.2  | 9.10  | 1.80  |
| 09/01/93 | 9.8  | 8.2  | 9.08  | 1.60  | 9.8  | 8.6  | 9.35  | 1.20  |
| 09/02/93 | 10.2 | 8.2  | 9.20  | 2.00  | 10.2 | 8.6  | 9.50  | 1.60  |
| 09/03/93 | 10.0 | 8.4  | 9.23  | 1.60  | 10.0 | 8.8  | 9.53  | 1.20  |
| 09/04/93 | 9.6  | 7.8  | 8.76  | 1.80  | 9.4  | 8.2  | 8.93  | 1.20  |
| 09/05/93 | 9.6  | 7.7  | 8.67  | 1.90  | 9.4  | 7.8  | 8.72  | 1.60  |
| 09/06/93 | 9.6  | 7.8  | 8.71  | 1.80  | 9.4  | 8.0  | 8.83  | 1.40  |
| 09/07/93 | 10.0 | 7.8  | 8.92  | 2.20  | 9.8  | 8.2  | 8.98  | 1.60  |
| 09/08/93 | 9.6  | 8.0  | 8.86  | 1.60  | 9.4  | 8.4  | 8.97  | 1.00  |

## GATES CREEK WATER TEMPERATURE (°C) at STATION HHH in 1993

| DATE     | WEST    |         |         |         | EAST   |         |         |         |
|----------|---------|---------|---------|---------|--------|---------|---------|---------|
|          | MAX     | MIN     | MEAN    | RANGE   | MAX    | MIN     | MEAN    | RANGE   |
| 09/09/93 | 9.2     | 7.3     | 8.39    | 1.90    | 8.8    | 7.5     | 8.16    | 1.30    |
| 09/10/93 | 9.2     | 8.0     | 8.66    | 1.20    | 9.0    | 8.2     | 8.52    | 0.80    |
| 09/11/93 | 8.6     | 7.3     | 8.10    | 1.30    | 8.6    | 7.5     | 8.02    | 1.10    |
| 09/12/93 | 8.0     | 6.0     | 7.08    | 2.00    | 7.5    | 6.0     | 6.79    | 1.50    |
| 09/13/93 | 8.4     | 7.3     | 7.88    | 1.10    | 7.8    | 7.3     | 7.54    | 0.50    |
| 09/14/93 | 8.2     | 6.9     | 7.55    | 1.30    | 7.8    | 7.1     | 7.37    | 0.70    |
| 09/15/93 | 7.8     | 6.0     | 6.99    | 1.80    | 7.3    | 6.1     | 6.76    | 1.20    |
| 09/16/93 | 7.5     | 5.4     | 6.44    | 2.10    | 6.5    | 5.4     | 6.03    | 1.10    |
| 09/17/93 | 7.5     | 5.4     | 6.46    | 2.10    | 6.5    | 5.4     | 6.00    | 1.10    |
| 09/18/93 | 6.9     | 5.2     | 6.26    | 1.70    | 6.5    | 5.0     | 5.93    | 1.50    |
| 09/19/93 | 5.8     | 4.3     | 4.99    | 1.50    | 5.0    | 4.1     | 4.57    | 0.90    |
| 09/20/93 | 5.2     | 3.1     | 4.15    | 2.10    | 4.1    | 3.3     | 3.83    | 0.80    |
| 09/21/93 | 5.4     | 3.1     | 4.26    | 2.30    | 4.3    | 3.3     | 3.88    | 1.00    |
| 09/22/93 | 5.8     | 4.0     | 4.93    | 1.80    | 4.9    | 4.0     | 4.36    | 0.90    |
| 09/23/93 | 6.7     | 5.6     | 6.17    | 1.10    | 6.1    | 4.9     | 5.53    | 1.20    |
| 09/24/93 | 6.7     | 6.0     | 6.30    | 0.70    | 6.3    | 6.0     | 6.05    | 0.30    |
| 09/25/93 | 6.3     | 4.9     | 5.73    | 1.40    | 6.0    | 4.9     | 5.44    | 1.10    |
| 09/26/93 | 7.5     | 6.3     | 6.80    | 1.20    | 6.7    | 5.8     | 6.28    | 0.90    |
| 09/27/93 | 6.3     | 4.9     | 5.65    | 1.40    | 6.5    | 5.0     | 5.59    | 1.50    |
| 09/28/93 | 6.0     | 4.3     |         |         | 5.2    | 4.1     |         |         |
| COUNT    | 61      | 60      | 59      | 59      | 61     | 60      | 59      | 59      |
| MAX      | 12.1    | 10.2    | 10.9771 | 2.4     | 12.8   | 10.9    | 11.6708 | 2.5     |
| MIN      | 5.2     | 3.1     | 4.15208 | 0.4     | 4.1    | 3.3     | 3.83333 | 0.3     |
| MEAN     | 9.11311 | 7.55333 | 8.41292 | 1.5661  | 9.1049 | 7.715   | 8.52887 | 1.4     |
| ST.DEV.  | 1.70529 | 1.76649 | 1.67879 | 0.50139 | 2.15   | 1.93432 | 2.00925 | 0.52076 |
| VARIANCE | 2.90802 | 3.12049 | 2.81835 | 0.25139 | 4.6224 | 3.74161 | 4.03709 | 0.27119 |

## GATES CREEK WATER TEMPERATURE (°C) at STATION HHH in 1994

| DATE     | WEST |     |       |       | EAST |      |       |       |
|----------|------|-----|-------|-------|------|------|-------|-------|
|          | MAX  | MIN | MEAN  | RANGE | MAX  | MIN  | MEAN  | RANGE |
| 06/08/94 | 7.7  |     |       |       | 7.5  |      |       |       |
| 06/09/94 | 8.2  | 6.0 | 7.01  | 2.2   | 7.7  | 5.8  | 6.77  | 1.9   |
| 06/10/94 | 7.8  | 5.8 | 6.93  | 2.0   | 7.7  | 6.0  | 6.84  | 1.7   |
| 06/11/94 | 8.6  | 6.7 | 7.60  | 1.9   | 8.4  | 6.9  | 7.63  | 1.5   |
| 06/12/94 | 7.3  | 6.1 | 6.66  | 1.2   | 7.3  | 6.1  | 6.61  | 1.2   |
| 06/13/94 | 7.3  | 6.7 | 6.99  | 0.6   | 7.1  | 6.5  | 6.76  | 0.6   |
| 06/14/94 | 6.7  | 6.0 | 6.36  | 0.7   | 6.7  | 5.8  | 6.25  | 0.9   |
| 06/15/94 | 7.3  | 6.3 | 6.86  | 1.0   | 7.1  | 6.0  | 6.46  | 1.1   |
| 06/16/94 | 7.7  | 6.7 | 7.26  | 1.0   | 7.5  | 6.1  | 6.76  | 1.4   |
| 06/17/94 | 7.8  | 6.7 | 7.31  | 1.1   | 7.3  | 6.1  | 6.81  | 1.2   |
| 06/18/94 | 8.0  | 6.3 | 7.27  | 1.7   | 7.7  | 6.0  | 6.98  | 1.7   |
| 06/19/94 | 8.6  | 6.5 | 7.57  | 2.1   | 8.0  | 6.1  | 7.22  | 1.9   |
| 06/20/94 | 8.8  | 6.5 | 7.68  | 2.3   | 8.4  | 6.3  | 7.49  | 2.1   |
| 06/21/94 | 9.4  | 6.9 | 8.19  | 2.5   | 9.4  | 7.1  | 8.30  | 2.3   |
| 06/22/94 | 10.2 | 7.7 | 8.85  | 2.5   | 10.4 | 7.8  | 9.13  | 2.6   |
| 06/23/94 | 10.4 | 8.8 | 9.58  | 1.6   | 11.1 | 9.4  | 10.16 | 1.7   |
| 06/24/94 | 10.7 | 9.0 | 9.79  | 1.7   | 11.3 | 9.4  | 10.36 | 1.9   |
| 06/25/94 | 10.9 | 8.4 | 9.65  | 2.5   | 11.3 | 8.6  | 10.04 | 2.7   |
| 06/26/94 | 10.7 | 8.8 | 9.60  | 1.9   | 11.1 | 9.2  | 10.18 | 1.9   |
| 06/27/94 | 9.2  | 8.0 | 8.71  | 1.2   | 9.8  | 8.6  | 9.16  | 1.2   |
| 06/28/94 | 8.2  | 7.5 | 7.84  | 0.7   | 8.4  | 7.5  | 8.05  | 0.9   |
| 06/29/94 | 8.4  | 7.3 | 7.78  | 1.1   | 8.8  | 7.3  | 8.04  | 1.5   |
| 06/30/94 | 7.8  | 7.1 | 7.52  | 0.7   | 8.2  | 7.3  | 7.76  | 0.9   |
| 07/01/94 | 8.2  | 7.5 | 7.86  | 0.7   | 8.6  | 7.7  | 8.11  | 0.9   |
| 07/02/94 | 8.0  | 7.7 | 7.77  | 0.3   | 8.2  | 7.8  | 7.93  | 0.4   |
| 07/03/94 | 8.4  | 7.3 | 7.89  | 1.1   | 8.4  | 7.1  | 7.78  | 1.3   |
| 07/04/94 | 8.0  | 7.7 | 7.83  | 0.3   | 8.0  | 7.5  | 7.79  | 0.5   |
| 07/05/94 | 8.8  | 7.1 | 8.01  | 1.7   | 9.0  | 6.9  | 8.06  | 2.1   |
| 07/06/94 | 9.4  | 8.2 | 8.68  | 1.2   | 9.6  | 8.4  | 8.97  | 1.2   |
| 07/07/94 | 9.4  | 8.4 | 8.77  | 1.0   | 9.6  | 8.6  | 9.07  | 1.0   |
| 07/08/94 | 9.2  | 7.5 | 8.25  | 1.7   | 9.2  | 7.7  | 8.45  | 1.5   |
| 07/09/94 | 9.2  | 7.3 | 8.11  | 1.9   | 9.4  | 7.1  | 8.28  | 2.3   |
| 07/10/94 | 9.6  | 7.3 | 8.40  | 2.3   | 9.8  | 7.3  | 8.62  | 2.5   |
| 07/11/94 | 10.0 | 7.5 | 8.72  | 2.5   | 10.4 | 7.7  | 9.07  | 2.7   |
| 07/12/94 | 10.2 | 8.0 | 9.21  | 2.2   | 10.9 | 8.4  | 9.83  | 2.5   |
| 07/13/94 | 10.4 | 9.0 | 9.66  | 1.4   | 11.3 | 9.4  | 10.44 | 1.9   |
| 07/14/94 | 10.4 | 9.2 | 9.83  | 1.2   | 11.3 | 9.8  | 10.66 | 1.5   |
| 07/15/94 | 11.3 | 9.2 | 10.23 | 2.1   | 12.1 | 10.0 | 11.11 | 2.1   |
| 07/16/94 | 10.9 | 9.8 | 10.29 | 1.1   | 11.5 | 10.2 | 10.97 | 1.3   |
| 07/17/94 | 10.4 | 9.8 | 10.05 | 0.6   | 11.1 | 10.2 | 10.69 | 0.9   |
| 07/18/94 | 10.9 | 9.4 | 10.09 | 1.5   | 11.3 | 10.0 | 10.60 | 1.3   |

## GATES CREEK WATER TEMPERATURE (°C) at STATION HHH in 1994

| DATE     | WEST |      |       |       | EAST |      |       |       |
|----------|------|------|-------|-------|------|------|-------|-------|
|          | MAX  | MIN  | MEAN  | RANGE | MAX  | MIN  | MEAN  | RANGE |
| 07/19/94 | 11.3 | 8.8  | 10.12 | 2.5   | 11.7 | 9.2  | 10.57 | 2.5   |
| 07/20/94 | 11.3 | 9.2  | 10.40 | 2.1   | 11.9 | 9.6  | 11.05 | 2.3   |
| 07/21/94 | 11.7 | 9.4  | 10.60 | 2.3   | 12.1 | 10.0 | 11.28 | 2.1   |
| 07/22/94 | 11.7 | 9.0  | 10.40 | 2.7   | 11.9 | 9.4  | 10.96 | 2.5   |
| 07/23/94 | 12.1 | 9.8  | 10.99 | 2.3   | 12.6 | 10.4 | 11.66 | 2.2   |
| 07/24/94 | 12.8 | 10.9 | 11.80 | 1.9   | 13.5 | 11.7 | 12.62 | 1.8   |
| 07/25/94 | 12.4 | 11.1 | 11.69 | 1.3   | 13.0 | 11.7 | 12.41 | 1.3   |
| 07/26/94 | 12.4 | 10.7 | 11.46 | 1.7   | 12.6 | 11.1 | 12.03 | 1.5   |
| 07/27/94 | 11.9 | 10.2 | 11.20 | 1.7   | 12.4 | 10.7 | 11.81 | 1.7   |
| 07/28/94 | 12.1 | 11.1 | 11.59 | 1.0   | 12.8 | 11.5 | 12.27 | 1.3   |
| 07/29/94 | 11.7 | 10.4 | 11.15 | 1.3   | 12.4 | 11.1 | 11.77 | 1.3   |
| 07/30/94 | 10.7 | 9.8  | 10.29 | 0.9   | 11.1 | 10.0 | 10.66 | 1.1   |
| 07/31/94 | 10.0 | 8.6  | 9.45  | 1.4   | 10.2 | 8.8  | 9.60  | 1.4   |
| 08/01/94 | 10.7 | 9.4  | 10.07 | 1.3   | 11.1 | 9.6  | 10.33 | 1.5   |
| 08/02/94 | 11.5 | 9.6  | 10.68 | 1.9   | 12.1 | 10.2 | 11.18 | 1.9   |
| 08/03/94 | 11.3 | 10.4 | 10.95 | 0.9   | 12.1 | 11.1 | 11.57 | 1.0   |
| 08/04/94 | 11.9 | 10.7 | 11.21 | 1.2   | 12.6 | 11.3 | 11.94 | 1.3   |
| 08/05/94 | 11.1 | 9.6  | 10.39 | 1.5   | 11.7 | 10.4 | 11.02 | 1.3   |
| 08/06/94 | 10.2 | 9.6  | 9.97  | 0.6   | 10.4 | 9.6  | 10.20 | 0.8   |
| 08/07/94 | 11.3 | 10.0 | 10.55 | 1.3   | 11.5 | 10.2 | 10.78 | 1.3   |
| 08/08/94 | 11.1 | 9.4  | 10.36 | 1.7   | 11.3 | 9.8  | 10.73 | 1.5   |
| 08/09/94 | 10.7 | 10.0 | 10.47 | 0.7   | 11.1 | 10.4 | 10.90 | 0.7   |
| 08/10/94 | 10.9 | 9.0  | 10.04 | 1.9   | 11.1 | 9.4  | 10.36 | 1.7   |
| 08/11/94 | 11.1 | 9.0  | 10.22 | 2.1   | 11.3 | 9.6  | 10.54 | 1.7   |
| 08/12/94 | 11.7 | 9.6  | 10.70 | 2.1   | 12.1 | 10.2 | 11.13 | 1.9   |
| 08/13/94 | 11.7 | 10.0 | 10.97 | 1.7   | 12.1 | 10.7 | 11.51 | 1.4   |
| 08/14/94 | 11.9 | 10.7 | 11.23 | 1.2   | 12.4 | 11.1 | 11.69 | 1.3   |
| 08/15/94 | 10.9 | 9.8  | 10.37 | 1.1   | 11.3 | 10.2 | 10.78 | 1.1   |
| 08/16/94 | 10.9 | 9.2  | 10.05 | 1.7   | 10.9 | 9.6  | 10.29 | 1.3   |
| 08/17/94 | 11.1 | 9.4  | 10.27 | 1.7   | 11.3 | 9.6  | 10.46 | 1.7   |
| 08/18/94 | 11.5 | 9.6  | 10.58 | 1.9   | 11.7 | 10.0 | 10.94 | 1.7   |
| 08/19/94 | 11.5 | 9.8  | 10.68 | 1.7   | 11.9 | 10.2 | 11.18 | 1.7   |
| 08/20/94 | 10.9 | 9.2  | 10.23 | 1.7   | 11.1 | 9.8  | 10.61 | 1.3   |
| 08/21/94 | 10.7 | 9.2  | 10.07 | 1.5   | 10.9 | 9.6  | 10.42 | 1.3   |
| 08/22/94 | 10.7 | 9.4  | 9.95  | 1.3   | 10.7 | 9.6  | 10.16 | 1.1   |
| 08/23/94 | 9.6  | 8.2  | 9.03  | 1.4   | 9.6  | 8.4  | 9.06  | 1.2   |
| 08/24/94 | 9.2  | 7.7  | 8.54  | 1.5   | 9.2  | 7.8  | 8.65  | 1.4   |
| 08/25/94 | 9.0  | 6.9  | 7.98  | 2.1   | 8.   |      |       |       |

## GATES CREEK WATER TEMPERATURE (°C) at STATION HHH in 1994

|          | WEST    |         |         |         | EAST   |         |         |         |
|----------|---------|---------|---------|---------|--------|---------|---------|---------|
| DATE     | MAX     | MIN     | MEAN    | RANGE   | MAX    | MIN     | MEAN    | RANGE   |
| 08/29/94 | 9.8     | 8.6     | 9.12    | 1.2     | 10.0   | 9.0     | 9.43    | 1.0     |
| 08/30/94 | 9.4     | 7.7     | 8.67    | 1.7     | 9.6    | 8.0     | 8.79    | 1.6     |
| 08/31/94 | 9.4     | 8.6     | 9.03    | 0.8     | 9.6    | 9.0     | 9.30    | 0.6     |
| 09/01/94 | 9.2     | 7.5     | 8.39    | 1.7     | 9.4    | 8.0     | 8.65    | 1.4     |
| 09/02/94 | 8.4     | 7.8     | 8.07    | 0.6     | 8.4    | 8.0     | 8.19    | 0.4     |
| 09/03/94 | 8.6     | 7.8     | 8.13    | 0.8     | 8.6    | 7.8     | 8.14    | 0.8     |
| 09/04/94 | 8.0     | 6.9     | 7.62    | 1.1     | 7.8    | 6.9     | 7.51    | 0.9     |
| 09/05/94 | 8.8     | 7.5     | 8.11    | 1.3     | 8.6    | 7.3     | 7.91    | 1.3     |
| 09/06/94 | 9.2     | 8.2     | 8.63    | 1.0     | 9.2    | 8.2     | 8.60    | 1.0     |
| 09/07/94 | 8.0     | 6.5     | 7.45    | 1.5     | 8.4    | 6.7     | 7.50    | 1.7     |
| 09/08/94 | 8.4     | 7.8     | 8.07    | 0.6     | 8.2    | 7.7     | 7.94    | 0.5     |
| 09/09/94 | 8.4     | 7.5     | 7.94    | 0.9     | 8.0    | 7.5     | 7.78    | 0.5     |
| 09/10/94 | 8.0     | 7.1     | 7.55    | 0.9     | 7.7    | 6.9     | 7.34    | 0.8     |
| 09/11/94 | 7.3     | 5.8     | 6.73    | 1.5     | 7.1    | 5.6     | 6.45    | 1.5     |
| 09/12/94 | 8.0     | 7.1     | 7.53    | 0.9     | 8.0    | 6.9     | 7.35    | 1.1     |
| 09/13/94 | 8.4     | 7.8     | 8.05    | 0.6     | 8.6    | 7.8     | 8.08    | 0.8     |
| 09/14/94 | 8.0     | 7.5     | 7.79    | 0.5     | 8.0    | 7.5     | 7.82    | 0.5     |
| 09/15/94 | 8.8     | 7.3     | 8.11    | 1.5     | 8.8    | 7.5     | 8.16    | 1.3     |
| 09/16/94 | 9.6     | 8.4     | 8.86    | 1.2     | 9.6    | 8.6     | 9.02    | 1.0     |
| 09/17/94 | 9.2     | 8.0     | 8.57    | 1.2     | 9.4    | 8.2     | 8.84    | 1.2     |
| 09/18/94 | 9.0     | 7.8     | 8.40    | 1.2     | 9.0    | 8.0     | 8.53    | 1.0     |
| 09/19/94 | 9.0     | 7.8     | 8.62    | 1.2     | 9.0    | 8.0     | 8.68    | 1.0     |
| 09/20/94 | 7.8     | 6.1     | 7.14    | 1.7     | 7.8    | 6.1     | 6.98    | 1.7     |
| 09/21/94 | 8.8     | 6.5     | 7.62    | 2.3     | 8.0    | 6.3     | 7.18    | 1.7     |
| 09/22/94 | 9.6     | 8.0     | 8.83    | 1.6     | 9.4    | 7.8     | 8.58    | 1.6     |
| 09/23/94 | 9.2     | 8.8     | 8.95    | 0.4     | 9.2    | 8.8     | 9.03    | 0.4     |
| 09/24/94 | 9.8     | 8.6     | 9.13    | 1.2     | 9.6    | 8.6     | 9.17    | 1.0     |
| 09/25/94 | 9.2     | 7.8     | 8.64    | 1.4     | 9.4    | 8.0     | 8.82    | 1.4     |
| 09/26/94 | 8.0     | 7.1     | 7.66    | 0.9     | 8.0    | 7.1     | 7.63    | 0.9     |
| 09/27/94 | 8.0     | 6.7     | 7.63    | 1.3     | 7.7    | 6.7     | 7.49    | 1.0     |
| 09/28/94 | 6.9     | 5.2     | 6.12    | 1.7     | 6.7    | 5.2     | 5.89    | 1.5     |
| 09/29/94 | 6.1     | 4.7     | 5.52    | 1.4     | 5.6    | 4.3     | 5.11    | 1.3     |
| 09/30/94 |         |         |         |         | 5.2    |         |         |         |
| COUNT    | 114     | 114     | 113     | 113     | 114    | 114     | 113     | 113     |
| MAX      | 12.8    | 11.1    | 11.8021 | 2.7     | 13.5   | 11.7    | 12.6229 | 2.7     |
| MIN      | 6.1     | 4.7     | 5.51875 | 0.3     | 5.6    | 4.3     | 5.10625 | 0.4     |
| MEAN     | 9.62544 | 8.1693  | 8.93995 | 1.45221 | 9.7895 | 8.35877 | 9.14565 | 1.42301 |
| ST.DEV   | 1.4926  | 1.4042  | 1.40488 | 0.56303 | 1.7453 | 1.65274 | 1.68714 | 0.5358  |
| VARIANCE | 2.22786 | 1.97178 | 1.97368 | 0.31701 | 3.046  | 2.73155 | 2.84644 | 0.28708 |

## GATES CREEK WATER TEMPERATURE (°C) at STATION JJJ in 1994

|          | STATION JJJ |     |       |       |
|----------|-------------|-----|-------|-------|
| DATE     | MAX         | MIN | MEAN  | RANGE |
| 06/08/94 | 7.8         |     |       |       |
| 06/09/94 | 8.0         | 5.0 | 6.54  | 3.0   |
| 06/10/94 | 7.8         | 5.0 | 6.53  | 2.8   |
| 06/11/94 | 8.6         | 6.1 | 7.13  | 2.5   |
| 06/12/94 | 6.5         | 5.0 | 5.92  | 1.5   |
| 06/13/94 | 6.5         | 5.8 | 6.16  | 0.7   |
| 06/14/94 | 6.9         | 5.6 | 6.07  | 1.3   |
| 06/15/94 | 6.9         | 5.8 | 6.28  | 1.1   |
| 06/16/94 | 7.1         | 5.6 | 6.41  | 1.5   |
| 06/17/94 | 7.3         | 5.6 | 6.53  | 1.7   |
| 06/18/94 | 7.8         | 5.4 | 6.74  | 2.4   |
| 06/19/94 | 8.2         | 5.6 | 6.99  | 2.6   |
| 06/20/94 | 9.0         | 5.8 | 7.40  | 3.2   |
| 06/21/94 | 9.6         | 6.0 | 7.87  | 3.6   |
| 06/22/94 | 10.2        | 6.7 | 8.55  | 3.5   |
| 06/23/94 | 10.2        | 8.0 | 9.06  | 2.2   |
| 06/24/94 | 10.9        | 8.0 | 9.38  | 2.9   |
| 06/25/94 | 10.9        | 7.7 | 9.30  | 3.2   |
| 06/26/94 | 10.9        | 8.2 | 9.50  | 2.7   |
| 06/27/94 | 9.2         | 7.8 | 8.43  | 1.4   |
| 06/28/94 | 7.8         | 6.9 | 7.52  | 0.9   |
| 06/29/94 | 8.6         | 6.5 | 7.60  | 2.1   |
| 06/30/94 | 7.8         | 6.9 | 7.41  | 0.9   |
| 07/01/94 | 8.4         | 7.1 | 7.66  | 1.3   |
| 07/02/94 | 7.5         | 7.1 | 7.32  | 0.4   |
| 07/03/94 | 8.6         | 6.9 | 7.73  | 1.7   |
| 07/04/94 | 8.0         | 7.3 | 7.68  | 0.7   |
| 07/05/94 | 9.4         | 6.3 | 8.05  | 3.1   |
| 07/06/94 | 9.4         | 7.8 | 8.58  | 1.6   |
| 07/07/94 | 10.0        | 7.8 | 8.85  | 2.2   |
| 07/08/94 | 9.6         | 7.3 | 8.40  | 2.3   |
| 07/09/94 | 9.8         | 6.5 | 8.26  | 3.3   |
| 07/10/94 | 10.2        | 7.1 | 8.75  | 3.1   |
| 07/11/94 | 10.7        | 7.3 | 9.11  | 3.4   |
| 07/12/94 | 11.3        | 7.8 | 9.68  | 3.5   |
| 07/13/94 | 11.1        | 9.0 | 10.12 | 2.1   |
| 07/14/94 | 11.3        | 9.0 | 10.27 | 2.3   |
| 07/15/94 | 11.9        | 8.8 | 10.53 | 3.1   |
| 07/16/94 | 11.3        | 9.6 | 10.57 | 1.7   |
| 07/17/94 | 10.9        | 9.6 | 10.21 | 1.3   |
| 07/18/94 | 11.1        | 9.4 | 10.21 | 1.7   |

## GATES CREEK WATER TEMPERATURE (°C) at STATION JJJ in 1994

| STATION JJJ |      |      |       |       |
|-------------|------|------|-------|-------|
| DATE        | MAX  | MIN  | MEAN  | RANGE |
| 07/19/94    | 11.7 | 8.6  | 10.32 | 3.1   |
| 07/20/94    | 12.1 | 9.2  | 10.90 | 2.9   |
| 07/21/94    | 12.1 | 9.6  | 11.06 | 2.5   |
| 07/22/94    | 12.1 | 8.6  | 10.62 | 3.5   |
| 07/23/94    | 12.6 | 9.6  | 11.34 | 3.0   |
| 07/24/94    | 13.7 | 11.1 | 12.36 | 2.6   |
| 07/25/94    | 12.8 | 10.4 | 11.43 | 2.4   |
| 07/26/94    | 12.1 | 10.0 | 11.10 | 2.1   |
| 07/27/94    | 12.1 | 9.8  | 11.27 | 2.3   |
| 07/28/94    | 13.0 | 11.1 | 12.06 | 1.9   |
| 07/29/94    | 12.1 | 10.4 | 11.46 | 1.7   |
| 07/30/94    | 11.3 | 9.4  | 10.39 | 1.9   |
| 07/31/94    | 10.4 | 7.8  | 9.47  | 2.6   |
| 08/01/94    | 11.7 | 9.4  | 10.64 | 2.3   |
| 08/02/94    | 15.1 | 9.8  | 11.90 | 5.3   |
| 08/03/94    | 13.9 | 10.2 | 11.58 | 3.7   |
| 08/04/94    | 16.1 | 9.6  | 12.60 | 6.5   |
| 08/05/94    | 11.7 | 9.6  | 10.71 | 2.1   |
| 08/06/94    | 10.7 | 9.6  | 10.28 | 1.1   |
| 08/07/94    | 11.7 | 10.4 | 10.99 | 1.3   |
| 08/08/94    | 11.7 | 9.0  | 10.51 | 2.7   |
| 08/09/94    | 11.7 | 10.2 | 10.95 | 1.5   |
| 08/10/94    | 11.1 | 8.6  | 10.01 | 2.5   |
| 08/11/94    | 11.5 | 8.2  | 9.82  | 3.3   |
| 08/12/94    | 14.6 | 8.2  | 11.54 | 6.4   |
| 08/13/94    | 15.1 | 8.2  | 11.68 | 6.9   |
| 08/14/94    | 12.8 | 10.9 | 11.80 | 1.9   |
| 08/15/94    | 12.1 | 9.0  | 10.25 | 3.1   |
| 08/16/94    | 13.5 | 7.5  | 10.13 | 6.0   |
| 08/17/94    | 14.2 | 7.5  | 10.81 | 6.7   |
| 08/18/94    | 14.9 | 7.7  | 11.46 | 7.2   |
| 08/19/94    | 14.6 | 7.7  | 11.54 | 6.9   |
| 08/20/94    | 14.2 | 7.1  | 11.02 | 7.1   |
| 08/21/94    | 13.5 | 7.7  | 10.86 | 5.8   |
| 08/22/94    | 13.0 | 8.2  | 10.60 | 4.8   |
| 08/23/94    | 11.5 | 5.4  | 8.82  | 6.1   |
| 08/24/94    | 12.4 | 4.9  | 8.58  | 7.5   |
| 08/25/94    | 11.1 | 3.8  | 7.62  | 7.3   |
| 08/26/94    | 11.5 | 3.1  | 7.57  | 8.4   |
| 08/27/94    | 12.4 | 3.4  | 8.19  | 9.0   |
| 08/28/94    | 13.0 | 4.1  | 8.98  | 8.9   |

## GATES CREEK WATER TEMPERATURE (°C) at STATION JJJ in 1994

| STATION JJJ |         |         |         |         |
|-------------|---------|---------|---------|---------|
| DATE        | MAX     | MIN     | MEAN    | RANGE   |
| 08/29/94    | 13.9    | 7.8     | 10.73   | 6.1     |
| 08/30/94    | 12.6    | 4.7     | 9.45    | 7.9     |
| 08/31/94    | 13.0    | 7.8     | 10.31   | 5.2     |
| 09/01/94    | 11.5    | 4.3     | 8.13    | 7.2     |
| 09/02/94    | 9.8     | 6.5     | 8.33    | 3.3     |
| 09/03/94    | 10.9    | 5.0     | 8.33    | 5.9     |
| 09/04/94    | 10.7    | 4.0     | 7.23    | 6.7     |
| 09/05/94    | 12.1    | 6.5     | 9.19    | 5.6     |
| 09/06/94    | 12.8    | 6.5     | 9.84    | 6.3     |
| 09/07/94    | 10.0    | 2.9     | 7.02    | 7.1     |
| 09/08/94    | 11.1    | 8.2     | 9.23    | 2.9     |
| 09/09/94    | 8.6     | 6.9     | 7.91    | 1.7     |
| 09/10/94    | 8.6     | 5.2     | 7.10    | 3.4     |
| 09/11/94    | 8.6     | 3.3     | 6.13    | 5.3     |
| 09/12/94    | 10.2    | 6.7     | 8.24    | 3.5     |
| 09/13/94    | 11.1    | 7.3     | 8.92    | 3.8     |
| 09/14/94    | 8.4     | 5.8     | 7.48    | 2.6     |
| 09/15/94    | 10.0    | 6.7     | 8.49    | 3.3     |
| 09/16/94    | 10.9    | 8.4     | 9.61    | 2.5     |
| 09/17/94    | 10.2    | 7.1     | 8.51    | 3.1     |
| 09/18/94    | 9.4     | 6.9     | 8.12    | 2.5     |
| 09/19/94    | 9.2     | 7.1     | 8.50    | 2.1     |
| 09/20/94    | 7.5     | 4.9     | 6.46    | 2.6     |
| 09/21/94    | 8.8     | 5.2     | 7.06    | 3.6     |
| 09/22/94    | 10.9    | 7.5     | 9.13    | 3.4     |
| 09/23/94    | 9.8     | 9.2     | 9.46    | 0.6     |
| 09/24/94    | 11.3    | 9.0     | 10.13   | 2.3     |
| 09/25/94    | 10.2    | 6.7     | 9.15    | 3.5     |
| 09/26/94    | 9.2     | 5.8     | 7.51    | 3.4     |
| 09/27/94    | 9.2     | 5.0     | 7.50    | 4.2     |
| 09/28/94    | 7.8     | 2.7     | 5.31    | 5.1     |
| 09/29/94    | 7.3     | 2.6     | 5.17    | 4.7     |
| 09/30/94    |         |         | 5.2     |         |
| 10/01/94    |         |         |         |         |
| COUNT       | 114     | 114     | 113     | 113     |
| MAX         | 16.1    | 11.1    | 12.6042 | 9.0     |
| MIN         | 6.5     | 2.6     | 5.17083 | 0.4     |
| MEAN        | 10.7018 | 7.23421 | 9.06322 | 3.47522 |
| ST.DEV      | 2.13418 | 1.98069 | 1.74541 | 2.03511 |
| VARIANCE    | 4.55473 | 3.92313 | 3.04645 | 4.14169 |

## GATES CREEK WATER TEMPERATURE (°C) at STATION JJJ in 1995

| STATION JJJ |      |      |       |       |
|-------------|------|------|-------|-------|
| DATE        | MAX  | MIN  | MEAN  | RANGE |
| 06/18/95    | 9.0  |      |       |       |
| 06/19/95    | 10.0 | 7.3  | 8.55  | 2.7   |
| 06/20/95    | 11.1 | 7.8  | 9.50  | 3.3   |
| 06/21/95    | 11.1 | 7.7  | 9.56  | 3.4   |
| 06/22/95    | 10.9 | 9.0  | 9.89  | 1.9   |
| 06/23/95    | 9.8  | 8.0  | 9.00  | 1.8   |
| 06/24/95    | 9.2  | 8.0  | 8.58  | 1.2   |
| 06/25/95    | 8.4  | 6.3  | 7.58  | 2.1   |
| 06/26/95    | 9.2  | 5.6  | 7.54  | 3.6   |
| 06/27/95    | 10.2 | 6.5  | 8.61  | 3.7   |
| 06/28/95    | 11.1 | 7.7  | 9.54  | 3.4   |
| 06/29/95    | 11.3 | 8.4  | 10.17 | 2.9   |
| 06/30/95    | 12.1 | 9.0  | 10.76 | 3.1   |
| 07/01/95    | 11.1 | 10.0 | 10.58 | 1.1   |
| 07/02/95    | 11.5 | 9.8  | 10.64 | 1.7   |
| 07/03/95    | 11.7 | 9.6  | 10.78 | 2.1   |
| 07/04/95    | 11.1 | 9.2  | 10.27 | 1.9   |
| 07/05/95    | 10.4 | 8.6  | 9.63  | 1.8   |
| 07/06/95    | 10.2 | 7.5  | 9.13  | 2.7   |
| 07/07/95    | 11.3 | 7.3  | 9.54  | 4.0   |
| 07/08/95    | 10.9 | 9.6  | 10.06 | 1.3   |
| 07/09/95    | 10.9 | 8.8  | 10.15 | 2.1   |
| 07/10/95    | 10.2 | 8.4  | 9.26  | 1.8   |
| 07/11/95    | 8.8  | 8.0  | 8.39  | 0.8   |
| 07/12/95    | 9.6  | 7.7  | 8.62  | 1.9   |
| 07/13/95    | 9.6  | 8.2  | 8.82  | 1.4   |
| 07/14/95    | 9.6  | 8.4  | 9.02  | 1.2   |
| 07/15/95    | 10.2 | 7.3  | 8.93  | 2.9   |
| 07/16/95    | 10.9 | 8.6  | 9.83  | 2.3   |
| 07/17/95    | 11.1 | 8.8  | 10.09 | 2.3   |
| 07/18/95    | 11.7 | 8.8  | 10.34 | 2.9   |
| 07/19/95    | 12.4 | 9.2  | 10.90 | 3.2   |
| 07/20/95    | 12.4 | 10.4 | 11.54 | 2.0   |
| 07/21/95    | 12.6 | 10.2 | 11.56 | 2.4   |
| 07/22/95    | 12.6 | 10.7 | 11.83 | 1.9   |
| 07/23/95    | 11.9 | 10.7 | 11.45 | 1.2   |
| 07/24/95    | 10.4 | 10.0 | 10.27 | 0.4   |
| 07/25/95    | 11.9 | 10.0 | 10.80 | 1.9   |
| 07/26/95    | 11.1 | 9.4  | 10.26 | 1.7   |
| 07/27/95    | 9.6  | 8.2  | 9.09  | 1.4   |

## GATES CREEK WATER TEMPERATURE (°C) at STATION JJJ in 1995

| STATION JJJ |        |         |         |         |
|-------------|--------|---------|---------|---------|
| DATE        | MAX    | MIN     | MEAN    | RANGE   |
| 07/28/95    | 9.2    | 7.1     | 8.33    | 2.1     |
| 07/29/95    | 10.4   | 8.0     | 9.27    | 2.4     |
| 07/30/95    | 9.8    | 8.4     | 9.22    | 1.4     |
| 07/31/95    | 10.0   | 8.8     | 9.60    | 1.2     |
| 08/01/95    | 10.7   | 9.2     | 9.85    | 1.5     |
| 08/02/95    | 10.7   | 9.0     | 9.83    | 1.7     |
| 08/03/95    | 11.5   | 9.4     | 10.54   | 2.1     |
| 08/04/95    | 11.9   | 10.0    | 11.22   | 1.9     |
| 08/05/95    | 10.2   | 7.8     | 9.28    | 2.4     |
| 08/06/95    | 9.6    | 7.3     | 8.55    | 2.3     |
| 08/07/95    | 9.6    | 6.9     | 8.36    | 2.7     |
| 08/08/95    | 9.6    | 7.3     | 8.66    | 2.3     |
| 08/09/95    | 10.4   | 7.8     | 9.33    | 2.6     |
| 08/10/95    | 9.8    | 8.8     | 9.32    | 1.0     |
| 08/11/95    | 10.7   | 8.6     | 9.67    | 2.1     |
| 08/16/95    | 8.4    | 6.1     | 7.47    | 2.3     |
| 08/17/95    | 8.6    | 6.0     | 7.55    | 2.6     |
| 08/18/95    | 8.6    | 7.3     | 8.09    | 1.3     |
| 08/19/95    | 8.6    | 7.1     | 7.93    | 1.5     |
| 08/20/95    | 8.4    | 7.3     | 8.03    | 1.1     |
| 08/21/95    | 9.2    | 8.0     | 8.60    | 1.2     |
| 08/22/95    | 9.0    | 7.8     | 8.37    | 1.2     |
| 08/23/95    | 8.2    | 6.5     | 7.54    | 1.7     |
| 08/24/95    | 8.4    | 6.9     | 7.68    | 1.5     |
| 08/25/95    | 8.0    | 6.5     | 7.47    | 1.5     |
| 08/26/95    | 7.7    | 5.8     | 6.93    | 1.9     |
| 08/27/95    | 7.7    | 5.4     | 6.70    | 2.3     |
| 08/28/95    | 7.8    | 5.6     | 6.94    | 2.2     |
| 08/29/95    | 7.8    | 5.4     | 6.76    | 2.4     |
| 08/30/95    | 7.8    | 5.2     | 6.75    | 2.6     |
| 08/31/95    | 8.0    | 5.2     | 6.83    | 2.8     |
| 09/01/95    | 8.2    | 5.4     | 7.08    | 2.8     |
| COUNT       | 72     | 71      | 71      | 71      |
| MAX         | 12.6   | 10.7    | 11.8313 | 4.0     |
| MIN         | 7.7    | 5.2     | 6.70417 | 0.4     |
| MEAN        | 10.05  | 7.98028 | 9.13744 | 2.08451 |
| ST.DEV      | 1.3474 | 1.42153 | 1.30759 | 0.73937 |
| VARIANC     | 1.8156 | 2.02074 | 1.70979 | 0.54666 |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS KKK and LLL in 1995

|          | STATION KKK |      |       |       | STATION LLL |      |       |       |
|----------|-------------|------|-------|-------|-------------|------|-------|-------|
| DATE     | MAX         | MIN  | MEAN  | RANGE | MAX         | MIN  | MEAN  | RANGE |
| 06/16/95 | 11.4        |      |       |       |             |      |       |       |
| 06/17/95 | 11.3        | 8.6  | 9.85  | 2.7   | 8.7         |      |       |       |
| 06/18/95 | 13.5        | 7.8  | 10.18 | 5.7   | 9.7         | 6.9  | 8.24  | 2.8   |
| 06/19/95 | 14.1        | 8.9  | 10.88 | 5.2   | 10.8        | 8.1  | 9.16  | 2.7   |
| 06/20/95 | 15.8        | 9.0  | 11.85 | 6.8   | 11.9        | 8.6  | 10.05 | 3.3   |
| 06/21/95 | 16.1        | 9.1  | 12.18 | 7.0   | 11.7        | 8.6  | 10.11 | 3.1   |
| 06/22/95 | 15.1        | 10.0 | 11.99 | 5.1   | 11.0        | 9.7  | 10.21 | 1.3   |
| 06/23/95 | 15.1        | 9.4  | 11.50 | 5.7   | 9.7         | 8.6  | 9.22  | 1.1   |
| 06/24/95 | 13.5        | 9.7  | 11.15 | 3.8   | 9.3         | 8.1  | 8.56  | 1.2   |
| 06/25/95 | 12.5        | 8.0  | 10.05 | 4.5   | 8.3         | 6.6  | 7.55  | 1.7   |
| 06/26/95 | 15.2        | 7.4  | 10.91 | 7.8   | 9.5         | 6.3  | 7.83  | 3.2   |
| 06/27/95 | 16.6        | 8.3  | 11.97 | 8.3   | 10.3        | 7.4  | 8.89  | 2.9   |
| 06/28/95 | 16.6        | 9.2  | 12.73 | 7.4   | 11.2        | 8.6  | 9.98  | 2.6   |
| 06/29/95 | 16.5        | 9.7  | 13.01 | 6.8   | 11.3        | 9.7  | 10.59 | 1.6   |
| 06/30/95 | 18.5        | 10.4 | 13.92 | 8.1   | 12.1        | 10.4 | 11.24 | 1.7   |
| 07/01/95 | 15.0        | 11.2 | 12.66 | 3.8   | 11.5        | 10.9 | 11.27 | 0.6   |
| 07/02/95 | 15.4        | 11.2 | 12.70 | 4.2   | 11.2        | 10.2 | 10.73 | 1.0   |
| 07/03/95 | 14.7        | 11.0 | 12.74 | 3.7   | 11.0        | 10.1 | 10.63 | 0.9   |
| 07/04/95 | 14.9        | 10.9 | 12.52 | 4.0   | 10.5        | 9.8  | 10.13 | 0.7   |
| 07/05/95 | 15.2        | 10.4 | 12.42 | 4.8   | 10.3        | 9.4  | 9.76  | 0.9   |
| 07/06/95 | 16.4        | 9.6  | 12.48 | 6.8   | 9.8         | 8.6  | 9.32  | 1.2   |
| 07/07/95 | 16.7        | 9.8  | 12.79 | 6.9   | 10.0        | 8.8  | 9.50  | 1.2   |
| 07/08/95 | 15.1        | 11.5 | 12.66 | 3.6   | 10.4        | 9.7  | 9.93  | 0.7   |
| 07/09/95 | 15.1        | 10.9 | 12.78 | 4.2   | 10.5        | 9.0  | 9.84  | 1.5   |
| 07/10/95 | 12.1        | 9.7  | 11.06 | 2.4   | 10.3        | 8.7  | 9.52  | 1.6   |
| 07/11/95 | 10.4        | 9.4  | 9.84  | 1.0   | 9.0         | 8.2  | 8.63  | 0.8   |
| 07/12/95 | 11.4        | 8.6  | 10.06 | 2.8   | 9.8         | 8.1  | 8.95  | 1.7   |
| 07/13/95 | 11.7        | 9.5  | 10.45 | 2.2   | 9.8         | 8.5  | 9.15  | 1.3   |
| 07/14/95 | 12.9        | 9.6  | 10.93 | 3.3   | 9.8         | 8.5  | 9.15  | 1.3   |
| 07/15/95 | 14.3        | 8.9  | 11.26 | 5.4   | 10.0        | 7.9  | 9.03  | 2.1   |
| 07/16/95 | 13.9        | 10.0 | 11.87 | 3.9   | 10.9        | 8.8  | 9.82  | 2.1   |
| 07/17/95 | 14.7        | 10.3 | 12.21 | 4.4   | 11.5        | 9.5  | 10.47 | 2.0   |
| 07/18/95 | 16.3        | 10.3 | 12.94 | 6.0   | 11.9        | 9.7  | 10.85 | 2.2   |
| 07/19/95 | 17.4        | 10.9 | 13.76 | 6.5   | 12.6        | 10.3 | 11.45 | 2.3   |
| 07/20/95 | 16.6        | 11.9 | 14.17 | 4.7   | 12.6        | 11.5 | 12.08 | 1.1   |
| 07/21/95 | 17.0        | 12.1 | 14.31 | 4.9   | 12.6        | 11.2 | 12.01 | 1.4   |
| 07/22/95 | 16.2        | 12.0 | 13.88 | 4.2   | 12.7        | 11.8 | 12.23 | 0.9   |
| 07/23/95 | 15.4        | 12.3 | 13.60 | 3.1   | 11.9        | 11.1 | 11.53 | 0.8   |
| 07/24/95 | 13.3        | 12.0 | 12.54 | 1.3   | 10.9        | 10.1 | 10.46 | 0.8   |
| 07/25/95 | 15.5        | 11.6 | 13.33 | 3.9   | 11.3        | 9.8  | 10.49 | 1.5   |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS KKK and LLL in 1995

|          | STATION KKK |      |       |       | STATION LLL |      |       |       |
|----------|-------------|------|-------|-------|-------------|------|-------|-------|
| DATE     | MAX         | MIN  | MEAN  | RANGE | MAX         | MIN  | MEAN  | RANGE |
| 07/26/95 | 13.9        | 11.3 | 12.44 | 2.6   | 10.6        | 9.7  | 10.14 | 0.9   |
| 07/27/95 | 13.5        | 9.8  | 11.55 | 3.7   | 9.6         | 8.6  | 9.10  | 1.0   |
| 07/28/95 | 13.7        | 9.0  | 11.33 | 4.7   | 8.7         | 7.6  | 8.28  | 1.1   |
| 07/29/95 | 15.0        | 9.8  | 12.18 | 5.2   | 9.7         | 8.1  | 8.78  | 1.6   |
| 07/30/95 | 13.1        | 10.1 | 11.64 | 3.0   | 9.6         | 8.7  | 9.08  | 0.9   |
| 07/31/95 | 14.7        | 10.5 | 12.38 | 4.2   | 9.7         | 8.7  | 9.29  | 1.0   |
| 08/01/95 | 14.9        | 11.2 | 12.65 | 3.7   | 10.0        | 9.2  | 9.56  | 0.8   |
| 08/02/95 | 13.8        | 10.8 | 12.14 | 3.0   | 10.3        | 9.3  | 9.78  | 1.0   |
| 08/03/95 | 15.4        | 10.5 | 12.78 | 4.9   | 10.8        | 9.6  | 10.13 | 1.2   |
| 08/04/95 | 15.3        | 11.5 | 13.21 | 3.8   | 11.1        | 10.1 | 10.48 | 1.0   |
| 08/05/95 | 14.9        | 10.0 | 12.01 | 4.9   | 9.9         | 9.0  | 9.40  | 0.9   |
| 08/06/95 | 16.2        | 9.6  | 12.12 | 6.6   | 9.4         | 8.2  | 8.73  | 1.2   |
| 08/07/95 | 15.3        | 9.9  | 12.01 | 5.4   | 9.4         | 8.2  | 8.80  | 1.2   |
| 08/08/95 | 15.8        | 9.7  | 12.23 | 6.1   | 9.4         | 8.1  | 8.76  | 1.3   |
| 08/09/95 | 14.4        | 10.4 | 12.34 | 4.0   | 9.7         | 8.6  | 9.23  | 1.1   |
| 08/10/95 | 14.6        | 10.9 | 12.30 | 3.7   | 9.8         | 9.2  | 9.53  | 0.6   |
| 08/11/95 | 15.2        | 10.7 | 12.50 | 4.5   | 10.0        | 9.0  | 9.52  | 1.0   |
| 08/12/95 | 15.6        | 9.2  | 11.82 | 6.4   | 9.4         | 8.2  | 8.80  | 1.2   |
| 08/13/95 | 13.0        | 9.9  | 11.30 | 3.1   | 9.4         | 8.3  | 8.84  | 1.1   |
| 08/14/95 | 13.9        | 9.8  | 11.55 | 4.1   | 9.2         | 8.1  | 8.88  | 1.1   |
| 08/15/95 | 12.4        | 8.4  | 10.20 | 4.0   | 8.0         | 7.1  | 7.54  | 0.9   |
| 08/16/95 | 12.7        | 7.9  | 10.18 | 4.8   | 7.6         | 6.5  | 7.15  | 1.1   |
| 08/17/95 | 13.9        | 8.2  | 10.67 | 5.7   | 7.9         | 6.6  | 7.36  | 1.3   |
| 08/18/95 | 13.0        | 9.4  | 10.95 | 3.6   | 8.2         | 7.3  | 7.82  | 0.9   |
| 08/19/95 | 12.1        | 9.0  | 10.47 | 3.1   | 8.1         | 7.5  | 7.82  | 0.6   |
| 08/20/95 | 12.0        | 9.0  | 10.37 | 3.0   | 8.1         | 7.4  | 7.82  | 0.7   |
| 08/21/95 | 11.5        | 9.7  | 10.51 | 1.8   | 9.3         | 7.6  | 8.36  | 1.7   |
| 08/22/95 | 12.3        | 9.2  | 10.25 | 3.1   | 8.8         | 7.9  | 8.25  | 0.9   |
| 08/23/95 | 12.4        | 7.9  | 9.72  | 4.5   | 8.2         | 6.8  | 7.60  | 1.4   |
| 08/24/95 | 10.9        | 8.1  | 9.50  | 2.8   | 8.0         | 7.0  | 7.51  | 1.0   |
| 08/25/95 | 11.8        | 7.9  | 9.65  | 3.9   | 7.5         | 6.7  | 7.20  | 0.8   |
| 08/26/95 | 12.4        | 7.5  | 9.62  | 4.9   | 7.5         | 6.3  | 6.90  | 1.2   |
| 08/27/95 | 12.4        | 7.0  | 9.43  | 5.4   | 7.4         | 6.3  | 6.91  | 1.1   |
| 08/28/95 | 13.2        | 7.4  | 9.83  | 5.8   | 7.4         | 6.5  | 6.97  | 0.9   |
| 08/29/95 | 12.8        | 7.1  | 9.63  | 5.7   | 7.4         | 6.4  | 6.93  | 1.0   |
| 08/30/95 | 13.9        | 6.9  | 9.79  | 7.0   | 7.4         | 6.4  | 6.84  | 1.0   |
| 08/31/95 | 12.1        | 7.0  | 9.50  | 5.1   | 7.5         | 6.4  | 6.98  | 1.1   |
| 09/01/95 | 14.1        | 7.4  | 10.44 | 6.7   | 7.9         | 6.6  | 7.33  | 1.3   |
| 09/02/95 | 14.0        | 9.2  | 11.28 |       |             |      |       |       |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS KKK and LLL in 1995

|          | STATION KKK |         |         |         | STATION LLL |         |         |         |
|----------|-------------|---------|---------|---------|-------------|---------|---------|---------|
| DATE     | MAX         | MIN     | MEAN    | RANGE   | MAX         | MIN     | MEAN    | RANGE   |
| 09/04/95 | 15.7        | 8.8     | 11.70   | 6.9     | 9.4         | 8.4     | 8.94    | 1.0     |
| 09/05/95 | 14.6        | 9.7     | 11.97   | 4.9     | 9.8         | 8.9     | 9.39    | 0.9     |
| 09/06/95 | 14.9        | 10.9    | 12.39   | 4.0     | 10.1        | 9.5     | 9.76    | 0.6     |
| 09/07/95 | 15.7        | 9.0     | 11.67   | 6.7     | 9.7         | 8.8     | 9.28    | 0.9     |
| 09/08/95 | 15.4        | 9.0     | 11.55   | 6.4     | 9.7         | 8.8     | 9.25    | 0.9     |
| 09/09/95 | 13.5        | 8.5     | 10.95   | 5.0     | 9.6         | 8.5     | 9.15    | 1.1     |
| 09/10/95 | 14.6        | 10.4    | 11.89   | 4.2     | 10.0        | 9.3     | 9.60    | 0.7     |
| 09/11/95 | 13.0        | 11.0    | 11.76   | 2.0     | 10.1        | 9.4     | 9.74    | 0.7     |
| 09/12/95 | 14.4        | 10.0    | 11.70   | 4.4     | 10.0        | 9.0     | 9.52    | 1.0     |
| 09/13/95 | 14.0        | 8.3     | 10.76   | 5.7     | 8.9         | 7.9     | 8.43    | 1.0     |
| 09/14/95 | 14.1        | 8.4     | 10.73   | 5.7     | 8.9         | 7.8     | 8.35    | 1.1     |
| 09/15/95 | 13.6        | 8.2     | 10.47   | 5.4     | 8.2         | 7.5     | 7.93    | 0.7     |
| 09/16/95 | 13.3        | 7.8     | 10.07   | 5.5     | 7.9         | 7.0     | 7.52    | 0.9     |
| 09/17/95 | 12.9        | 7.8     | 10.03   | 5.1     | 7.9         | 7.0     | 7.48    | 0.9     |
| 09/18/95 | 10.1        | 9.0     | 9.68    | 1.1     | 7.5         | 6.4     | 6.89    | 1.1     |
| 09/19/95 | 12.3        | 8.0     | 9.38    | 4.3     | 6.5         | 5.9     | 6.21    | 0.6     |
| 09/20/95 | 11.5        | 6.1     | 8.52    | 5.4     | 6.0         | 5.0     | 5.58    | 1.0     |
| 09/21/95 | 11.8        | 6.8     | 8.92    | 5.0     | 6.3         | 5.3     | 5.78    | 1.0     |
| 09/22/95 | 11.6        | 6.5     | 8.62    | 5.1     | 6.3         | 5.2     | 5.79    | 1.1     |
| 09/23/95 | 11.4        | 6.6     | 8.73    | 4.8     | 6.7         | 5.9     | 6.29    | 0.8     |
| 09/24/95 | 11.3        | 7.0     | 8.81    | 4.3     | 6.9         | 6.3     | 6.59    | 0.6     |
| 09/25/95 | 11.1        | 7.1     | 8.87    | 4.0     | 7.0         | 6.4     | 6.67    | 0.6     |
| 09/26/95 | 10.7        | 9.1     | 9.71    | 1.6     | 7.5         | 7.0     | 7.20    | 0.5     |
| 09/27/95 | 11.0        | 8.4     | 9.54    | 2.6     | 7.1         | 6.5     | 6.89    | 0.6     |
| 09/28/95 | 12.7        | 9.0     | 10.15   | 3.7     | 7.5         | 6.9     | 7.20    | 0.6     |
| 09/29/95 | 10.3        | 7.2     | 8.85    | 3.1     | 7.1         | 6.5     | 6.84    | 0.6     |
| 09/30/95 | 10.5        | 6.6     | 8.38    | 3.9     | 6.8         | 5.5     | 6.30    | 1.3     |
| 10/01/95 |             | 5.6     |         |         |             | 5.1     |         |         |
| COUNT    | 107         | 107     | 106     | 106     | 106         | 106     | 105     | 105     |
| MAX      | 18.5        | 12.3    | 14.3125 | 8.3     | 12.7        | 11.8    | 12.225  | 3.3     |
| MIN      | 10.1        | 5.6     | 8.375   | 1.0     | 6.0         | 5.0     | 5.575   | 0.5     |
| MEAN     | 13.8617     | 9.25607 | 11.2671 | 4.59434 | 9.3783      | 8.14811 | 8.79032 | 1.20762 |
| ST.DEV   | 1.81765     | 1.48445 | 1.40691 | 1.52704 | 1.5836      | 1.47962 | 1.48253 | 0.59035 |
| VARIANCE | 3.30386     | 2.20358 | 1.97938 | 2.33185 | 2.5079      | 2.18929 | 2.1979  | 0.34851 |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS MMM and NNN in 1995

|          | STATION MMM |      |       |       | STATION NNN |      |       |       |
|----------|-------------|------|-------|-------|-------------|------|-------|-------|
| DATE     | MAX         | MIN  | MEAN  | RANGE | MAX         | MIN  | MEAN  | RANGE |
| 06/17/95 | 7.3         |      |       |       | 10.3        |      |       |       |
| 06/18/95 | 7.8         | 6.0  | 6.99  | 1.8   | 11.6        | 7.6  | 9.71  | 4.0   |
| 06/19/95 | 8.9         | 7.0  | 7.88  | 1.9   | 12.8        | 8.6  | 10.49 | 4.2   |
| 06/20/95 | 9.7         | 7.5  | 8.58  | 2.2   | 14.5        | 9.3  | 11.85 | 5.2   |
| 06/21/95 | 9.7         | 7.5  | 8.63  | 2.2   | 14.9        | 9.7  | 12.40 | 5.2   |
| 06/22/95 | 9.6         | 8.3  | 8.84  | 1.3   | 13.9        | 11.3 | 12.49 | 2.6   |
| 06/23/95 | 8.5         | 7.5  | 7.98  | 1.0   | 12.9        | 10.4 | 11.60 | 2.5   |
| 06/24/95 | 8.2         | 6.8  | 7.41  | 1.4   | 12.2        | 10.4 | 11.15 | 1.8   |
| 06/25/95 | 7.3         | 5.9  | 6.52  | 1.4   | 11.2        | 8.4  | 9.95  | 2.8   |
| 06/26/95 | 7.9         | 5.4  | 6.73  | 2.5   | 13.2        | 7.6  | 10.48 | 5.6   |
| 06/27/95 | 9.3         | 6.7  | 8.05  | 2.6   | 14.9        | 9.3  | 12.08 | 5.6   |
| 06/28/95 | 10.3        | 8.0  | 9.18  | 2.3   | 15.7        | 10.6 | 13.24 | 5.1   |
| 06/29/95 | 10.7        | 8.7  | 9.78  | 2.0   | 15.9        | 11.4 | 13.84 | 4.5   |
| 06/30/95 | 11.3        | 9.5  | 10.41 | 1.8   | 17.5        | 12.0 | 14.70 | 5.5   |
| 07/01/95 | 10.6        | 9.8  | 10.26 | 0.8   | 14.9        | 13.3 | 14.12 | 1.6   |
| 07/02/95 | 10.5        | 9.2  | 9.80  | 1.3   | 15.2        | 12.6 | 13.59 | 2.6   |
| 07/03/95 | 10.0        | 9.1  | 9.57  | 0.9   | 14.6        | 12.4 | 13.47 | 2.2   |
| 07/04/95 | 9.5         | 8.6  | 9.07  | 0.9   | 14.1        | 12.0 | 12.98 | 2.1   |
| 07/05/95 | 9.4         | 8.2  | 8.80  | 1.2   | 13.7        | 11.3 | 12.50 | 2.4   |
| 07/06/95 | 9.3         | 7.7  | 8.60  | 1.6   | 14.6        | 10.0 | 12.29 | 4.6   |
| 07/07/95 | 9.6         | 8.1  | 8.95  | 1.5   | 14.7        | 10.3 | 12.62 | 4.4   |
| 07/08/95 | 9.7         | 9.1  | 9.35  | 0.6   | 14.5        | 12.5 | 13.15 | 2.0   |
| 07/09/95 | 9.8         | 8.5  | 9.26  | 1.3   | 13.9        | 11.7 | 12.93 | 2.2   |
| 07/10/95 | 9.4         | 7.9  | 8.88  | 1.5   | 12.9        | 9.6  | 11.20 | 3.3   |
| 07/11/95 | 8.3         | 7.5  | 7.96  | 0.8   | 10.0        | 9.2  | 9.58  | 0.8   |
| 07/12/95 | 9.0         | 7.5  | 8.24  | 1.5   | 11.5        | 8.5  | 9.95  | 3.0   |
| 07/13/95 | 8.9         | 8.0  | 8.40  | 0.9   | 11.2        | 9.5  | 10.31 | 1.7   |
| 07/14/95 | 8.9         | 8.1  | 8.43  | 0.8   | 11.9        | 9.7  | 10.70 | 2.2   |
| 07/15/95 | 9.3         | 7.5  | 8.43  | 1.8   | 13.0        | 9.0  | 11.18 | 4.0   |
| 07/16/95 | 9.9         | 8.3  | 9.12  | 1.6   | 13.5        | 10.9 | 12.19 | 2.6   |
| 07/17/95 | 10.5        | 9.0  | 9.75  | 1.5   | 13.9        | 11.1 | 12.48 | 2.8   |
| 07/18/95 | 11.0        | 9.4  | 10.16 | 1.6   | 15.2        | 11.0 | 13.20 | 4.2   |
| 07/19/95 | 11.7        | 9.7  | 10.74 | 2.0   | 16.8        | 12.0 | 14.36 | 4.8   |
| 07/20/95 | 12.0        | 10.7 | 11.33 | 1.3   | 16.7        | 13.3 | 15.09 | 3.4   |
| 07/21/95 | 12.1        | 10.6 | 11.39 | 1.5   | 17.0        | 13.1 | 15.07 | 3.9   |
| 07/22/95 | 12.2        | 11.1 | 11.57 | 1.1   | 16.7        | 13.4 | 14.92 | 3.3   |
| 07/23/95 | 11.1        | 10.0 | 10.70 | 1.1   | 15.3        | 13.1 | 14.20 | 2.2   |
| 07/24/95 | 9.8         | 9.3  | 9.50  | 0.5   | 13.3        | 12.6 | 12.83 | 0.7   |
| 07/25/95 | 10.9        | 9.1  | 9.83  | 1.8   | 15.4        | 12.1 | 13.44 | 3.3   |
| 07/26/95 | 10.3        | 8.5  | 9.41  | 1.8   | 14.3        | 11.9 | 13.05 | 2.4   |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS MMM and NNN in 1995

| DATE     | STATION MMM |     |      |       | STATION NNN |      |       |       |
|----------|-------------|-----|------|-------|-------------|------|-------|-------|
|          | MAX         | MIN | MEAN | RANGE | MAX         | MIN  | MEAN  | RANGE |
| 07/27/95 | 9.0         | 7.8 | 8.24 | 1.2   | 13.0        | 10.8 | 11.78 | 2.2   |
| 07/28/95 | 8.2         | 6.7 | 7.58 | 1.5   | 12.3        | 9.2  | 10.93 | 3.1   |
| 07/29/95 | 9.3         | 7.3 | 8.15 | 2.0   | 14.4        | 10.1 | 12.02 | 4.3   |
| 07/30/95 | 8.9         | 8.0 | 8.38 | 0.9   | 12.7        | 10.8 | 11.73 | 1.9   |
| 07/31/95 | 9.4         | 8.1 | 8.75 | 1.3   | 12.8        | 10.9 | 11.93 | 1.9   |
| 08/01/95 | 9.4         | 8.5 | 8.91 | 0.9   | 14.4        | 11.2 | 12.49 | 3.2   |
| 08/02/95 | 9.7         | 8.5 | 9.11 | 1.2   | 13.5        | 11.2 | 12.35 | 2.3   |
| 08/03/95 | 10.3        | 9.0 | 9.56 | 1.3   | 14.7        | 11.5 | 12.95 | 3.2   |
| 08/04/95 | 10.4        | 9.6 | 9.88 | 0.8   | 15.1        | 12.3 | 13.50 | 2.8   |
| 08/05/95 | 9.3         | 8.2 | 8.55 | 1.1   | 13.6        | 10.1 | 11.73 | 3.5   |
| 08/06/95 | 8.5         | 7.4 | 7.96 | 1.1   | 13.5        | 9.3  | 11.28 | 4.2   |
| 08/07/95 | 8.7         | 7.5 | 8.08 | 1.2   | 13.9        | 9.5  | 11.45 | 4.4   |
| 08/08/95 | 8.9         | 7.5 | 8.26 | 1.4   | 13.4        | 9.4  | 11.48 | 4.0   |
| 08/09/95 | 9.4         | 8.0 | 8.72 | 1.4   | 13.7        | 10.4 | 12.12 | 3.3   |
| 08/10/95 | 9.4         | 8.7 | 9.02 | 0.7   | 13.2        | 11.1 | 12.09 | 2.1   |
| 08/11/95 | 9.4         | 8.3 | 8.90 | 1.1   | 14.4        | 11.1 | 12.53 | 3.3   |
| 08/12/95 | 8.9         | 7.2 | 8.08 | 1.7   | 14.6        | 9.8  | 11.90 | 4.8   |
| 08/13/95 | 8.6         | 7.6 | 8.10 | 1.0   | 12.8        | 10.4 | 11.51 | 2.4   |
| 08/14/95 | 8.3         | 7.4 | 8.12 | 0.9   | 12.6        | 10.5 | 11.43 | 2.1   |
| 08/15/95 | 7.5         | 6.5 | 7.04 | 1.0   | 11.0        | 9.4  | 10.11 | 1.6   |
| 08/16/95 | 7.3         | 5.9 | 6.68 | 1.4   | 11.9        | 8.2  | 9.93  | 3.7   |
| 08/17/95 | 7.6         | 6.0 | 6.93 | 1.6   | 12.0        | 8.2  | 10.14 | 3.8   |
| 08/18/95 | 7.7         | 6.7 | 7.23 | 1.0   | 11.8        | 8.9  | 10.36 | 2.9   |
| 08/19/95 | 7.6         | 6.8 | 7.22 | 0.8   | 11.1        | 8.8  | 9.99  | 2.3   |
| 08/20/95 | 7.6         | 6.7 | 7.27 | 0.9   | 11.0        | 8.9  | 9.99  | 2.1   |
| 08/21/95 | 8.5         | 7.6 | 8.04 | 0.9   | 11.0        | 10.0 | 10.48 | 1.0   |
| 08/22/95 | 8.2         | 7.6 | 7.88 | 0.6   | 10.3        | 9.4  | 9.83  | 0.9   |
| 08/23/95 | 7.8         | 6.5 | 7.25 | 1.3   | 10.0        | 8.2  | 9.15  | 1.8   |
| 08/24/95 | 7.8         | 6.7 | 7.23 | 1.1   | 10.0        | 8.2  | 9.20  | 1.8   |
| 08/25/95 | 7.4         | 6.5 | 6.96 | 0.9   | 10.0        | 7.9  | 8.93  | 2.1   |
| 08/26/95 | 7.4         | 6.1 | 6.76 | 1.3   | 9.7         | 7.4  | 8.53  | 2.3   |
| 08/27/95 | 7.3         | 5.9 | 6.69 | 1.4   | 10.1        | 6.6  | 8.42  | 3.5   |
| 08/28/95 | 7.4         | 6.1 | 6.75 | 1.3   | 10.9        | 6.8  | 8.72  | 4.1   |
| 08/29/95 | 7.4         | 6.0 | 6.75 | 1.4   | 11.2        | 6.7  | 8.80  | 4.5   |
| 08/30/95 | 7.3         | 5.9 | 6.67 | 1.4   | 11.2        | 6.5  | 8.75  | 4.7   |
| 08/31/95 | 7.6         | 6.0 | 6.85 | 1.6   | 10.6        | 6.5  | 8.63  | 4.1   |
| 09/01/95 | 8.2         | 6.4 | 7.33 | 1.8   | 11.5        | 6.8  | 9.30  | 4.7   |
| 09/02/95 | 9.4         | 8.2 | 8.77 | 1.2   | 11.9        | 9.3  | 10.61 | 2.6   |
| 09/03/95 | 9.4         | 8.4 | 8.95 | 1.0   | 13.1        | 9.5  | 11.18 | 3.6   |
| 09/04/95 | 9.7         | 8.3 | 9.02 | 1.4   | 13.0        | 8.5  | 10.81 | 4.5   |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS MMM and NNN in 1995

| DATE     | STATION MMM |         |         |         | STATION NNN |         |         |         |
|----------|-------------|---------|---------|---------|-------------|---------|---------|---------|
|          | MAX         | MIN     | MEAN    | RANGE   | MAX         | MIN     | MEAN    | RANGE   |
| 09/05/95 | 10.0        | 9.0     | 9.52    | 1.0     | 12.8        | 9.7     | 11.44   | 3.1     |
| 09/06/95 | 10.0        | 9.4     | 9.71    | 0.6     | 14.3        | 11.1    | 12.25   | 3.2     |
| 09/07/95 | 9.8         | 8.5     | 9.23    | 1.3     | 12.9        | 8.6     | 10.92   | 4.3     |
| 09/08/95 | 10.0        | 8.7     | 9.36    | 1.3     | 12.8        | 8.5     | 10.77   | 4.3     |
| 09/09/95 | 9.7         | 8.2     | 9.12    | 1.5     | 11.7        | 8.4     | 10.36   | 3.3     |
| 09/10/95 | 10.0        | 9.2     | 9.50    | 0.8     | 13.4        | 10.1    | 11.39   | 3.3     |
| 09/11/95 | 9.9         | 9.3     | 9.59    | 0.6     | 13.3        | 10.9    | 11.85   | 2.4     |
| 09/12/95 | 9.7         | 8.8     | 9.32    | 0.9     | 13.0        | 10.0    | 11.42   | 3.0     |
| 09/13/95 | 8.8         | 7.5     | 8.29    | 1.3     | 11.3        | 7.5     | 9.54    | 3.8     |
| 09/14/95 | 9.0         | 7.6     | 8.34    | 1.4     | 11.6        | 7.5     | 9.50    | 4.1     |
| 09/15/95 | 8.4         | 7.5     | 8.02    | 0.9     | 10.7        | 7.0     | 8.82    | 3.7     |
| 09/16/95 | 8.0         | 6.8     | 7.54    | 1.2     | 10.1        | 6.3     | 8.17    | 3.8     |
| 09/17/95 | 8.0         | 6.8     | 7.48    | 1.2     | 10.0        | 6.3     | 8.22    | 3.7     |
| 09/18/95 | 7.8         | 6.3     | 6.89    | 1.5     | 9.0         | 7.3     | 8.23    | 1.7     |
| 09/19/95 | 6.5         | 5.6     | 6.04    | 0.9     | 9.4         | 6.2     | 7.36    | 3.2     |
| 09/20/95 | 5.9         | 4.8     | 5.41    | 1.1     | 8.1         | 3.8     | 5.90    | 4.3     |
| 09/21/95 | 6.3         | 5.4     | 5.87    | 0.9     | 8.6         | 4.8     | 6.58    | 3.8     |
| 09/22/95 | 6.5         | 5.7     | 6.14    | 0.8     | 8.3         | 4.4     | 6.23    | 3.9     |
| 09/23/95 | 7.0         | 6.4     | 6.66    | 0.6     | 8.8         | 4.7     | 6.61    | 4.1     |
| 09/24/95 | 7.3         | 6.7     | 7.04    | 0.6     | 9.0         | 5.3     | 6.99    | 3.7     |
| 09/25/95 | 7.4         | 6.9     | 7.17    | 0.5     | 8.7         | 5.4     | 7.10    | 3.3     |
| 09/26/95 | 7.9         | 7.4     | 7.61    | 0.5     | 9.4         | 7.7     | 8.62    | 1.7     |
| 09/27/95 | 7.3         | 6.5     | 6.98    | 0.8     | 8.7         | 6.0     | 7.40    | 2.7     |
| 09/28/95 | 7.5         | 6.8     | 7.16    | 0.7     | 9.7         | 7.9     | 8.59    | 1.8     |
| 09/29/95 | 6.9         | 6.4     | 6.67    | 0.5     | 9.0         | 6.5     | 7.83    | 2.5     |
| 09/30/95 | 6.6         | 5.2     | 6.00    | 1.4     | 7.9         | 5.2     | 6.94    | 2.7     |
| 10/01/95 |             | 4.8     |         |         |             | 4.3     |         |         |
| COUNT    | 106         | 106     | 105     | 105     | 106         | 106     | 105     | 105     |
| MAX      | 12.2        | 11.1    | 11.5667 | 2.6     | 17.5        | 13.4    | 15.0875 | 5.6     |
| MIN      | 5.9         | 4.8     | 5.40833 | 0.5     | 7.9         | 3.8     | 5.89583 | 0.7     |
| MEAN     | 8.89151     | 7.63774 | 8.30159 | 1.2419  | 12.497      | 9.28679 | 10.8893 | 3.18381 |
| ST.DEV   | 1.3382      | 1.31855 | 1.28248 | 0.44674 | 2.2153      | 2.24722 | 2.11583 | 1.11741 |
| VARIANCE | 1.79078     | 1.73858 | 1.64475 | 0.19958 | 4.9074      | 5.05001 | 4.47672 | 1.2486  |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS OOO and PPP in 1995

| DATE     | STATION OOO |      |       |       | STATION PPP |      |       |       |
|----------|-------------|------|-------|-------|-------------|------|-------|-------|
|          | MAX         | MIN  | MEAN  | RANGE | MAX         | MIN  | MEAN  | RANGE |
| 06/17/95 |             |      |       |       | 8.6         |      |       |       |
| 06/18/95 | 11.4        |      |       |       | 9.7         | 6.9  | 8.21  | 2.8   |
| 06/19/95 | 12.8        | 8.3  | 10.24 | 4.5   | 10.9        | 7.9  | 9.13  | 3.0   |
| 06/20/95 | 14.8        | 9.0  | 11.71 | 5.8   | 11.8        | 8.5  | 9.82  | 3.3   |
| 06/21/95 | 15.1        | 9.4  | 12.25 | 5.7   | 11.9        | 8.5  | 9.96  | 3.4   |
| 06/22/95 | 13.8        | 10.7 | 12.14 | 3.1   | 11.5        | 9.4  | 10.25 | 2.1   |
| 06/23/95 | 13.0        | 10.0 | 11.45 | 3.0   | 10.6        | 8.6  | 9.51  | 2.0   |
| 06/24/95 | 12.4        | 9.9  | 10.99 | 2.5   | 9.8         | 8.4  | 9.05  | 1.4   |
| 06/25/95 | 11.2        | 8.3  | 9.83  | 2.9   | 9.4         | 7.0  | 8.21  | 2.4   |
| 06/26/95 | 13.3        | 7.6  | 10.49 | 5.7   | 10.2        | 6.5  | 8.21  | 3.7   |
| 06/27/95 | 14.1        | 8.8  | 11.48 | 5.3   | 11.2        | 7.4  | 9.13  | 3.8   |
| 06/28/95 | 14.1        | 9.7  | 11.98 | 4.4   | 11.9        | 8.2  | 10.00 | 3.7   |
| 06/29/95 | 14.3        | 9.9  | 12.14 | 4.4   | 12.0        | 9.0  | 10.46 | 3.0   |
| 06/30/95 | 13.5        | 10.6 | 12.21 | 2.9   | 13.0        | 9.6  | 11.10 | 3.4   |
| 07/01/95 | 13.0        | 11.5 | 12.20 | 1.5   | 11.4        | 10.3 | 10.88 | 1.1   |
| 07/02/95 | 12.9        | 10.8 | 11.77 | 2.1   | 12.2        | 10.0 | 10.85 | 2.2   |
| 07/03/95 | 12.6        | 10.8 | 11.72 | 1.8   | 11.9        | 9.8  | 10.83 | 2.1   |
| 07/04/95 | 11.5        | 10.6 | 11.08 | 0.9   | 11.5        | 9.7  | 10.54 | 1.8   |
| 07/05/95 | 11.1        | 10.0 | 10.60 | 1.1   | 11.1        | 9.5  | 10.17 | 1.6   |
| 07/06/95 | 11.0        | 9.5  | 10.25 | 1.5   | 11.4        | 8.6  | 9.86  | 2.8   |
| 07/07/95 | 10.8        | 9.7  | 10.23 | 1.1   | 11.3        | 8.8  | 10.06 | 2.5   |
| 07/08/95 | 10.7        | 10.2 | 10.42 | 0.5   | 11.1        | 9.9  | 10.26 | 1.2   |
| 07/09/95 | 11.3        | 9.9  | 10.80 | 1.4   | 10.8        | 9.4  | 10.08 | 1.4   |
| 07/10/95 | 10.9        | 9.5  | 10.38 | 1.4   | 10.0        | 9.0  | 9.58  | 1.0   |
| 07/11/95 | 9.8         | 9.1  | 9.47  | 0.7   | 9.3         | 8.6  | 8.98  | 0.7   |
| 07/12/95 | 11.4        | 8.5  | 9.83  | 2.9   | 10.0        | 8.2  | 9.09  | 1.8   |
| 07/13/95 | 11.2        | 9.3  | 10.18 | 1.9   | 10.0        | 8.9  | 9.41  | 1.1   |
| 07/14/95 | 11.8        | 9.4  | 10.45 | 2.4   | 10.0        | 8.8  | 9.36  | 1.2   |
| 07/15/95 | 12.6        | 8.8  | 10.77 | 3.8   | 11.1        | 8.1  | 9.40  | 3.0   |
| 07/16/95 | 13.4        | 10.0 | 11.34 | 3.4   | 11.2        | 9.0  | 9.99  | 2.2   |
| 07/17/95 | 12.8        | 10.1 | 11.47 | 2.7   | 11.4        | 9.4  | 10.33 | 2.0   |
| 07/18/95 | 13.0        | 10.1 | 11.65 | 2.9   | 12.4        | 9.6  | 10.76 | 2.8   |
| 07/19/95 | 12.9        | 10.9 | 12.04 | 2.0   | 13.0        | 9.8  | 11.31 | 3.2   |
| 07/20/95 | 13.0        | 12.1 | 12.55 | 0.9   | 13.0        | 10.8 | 11.77 | 2.2   |
| 07/21/95 | 13.4        | 12.0 | 12.76 | 1.4   | 13.1        | 10.7 | 11.87 | 2.4   |
| 07/22/95 | 13.0        | 12.4 | 12.73 | 0.6   | 13.1        | 11.1 | 11.93 | 2.0   |
| 07/23/95 | 12.6        | 12.3 | 12.45 | 0.3   | 12.4        | 10.9 | 11.53 | 1.5   |
| 07/24/95 | 12.3        | 11.8 | 11.94 | 0.5   | 11.0        | 10.4 | 10.65 | 0.6   |
| 07/25/95 | 13.3        | 11.5 | 12.30 | 1.8   | 12.7        | 10.0 | 11.05 | 2.7   |
| 07/26/95 | 13.0        | 11.7 | 12.43 | 1.3   | 11.6        | 9.8  | 10.63 | 1.8   |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS OOO and PPP in 1995

| DATE     | STATION OOO |      |       |       | STATION PPP |      |       |       |
|----------|-------------|------|-------|-------|-------------|------|-------|-------|
|          | MAX         | MIN  | MEAN  | RANGE | MAX         | MIN  | MEAN  | RANGE |
| 07/27/95 | 12.1        | 11.1 | 11.63 | 1.0   | 10.4        | 8.8  | 9.55  | 1.6   |
| 07/28/95 | 11.3        | 10.2 | 10.72 | 1.1   | 9.8         | 7.9  | 8.98  | 1.9   |
| 07/29/95 | 11.4        | 10.5 | 10.96 | 0.9   | 11.2        | 8.4  | 9.63  | 2.8   |
| 07/30/95 | 11.4        | 11.1 | 11.20 | 0.3   | 10.4        | 8.9  | 9.65  | 1.5   |
| 07/31/95 | 11.2        | 11.1 | 11.18 | 0.1   | 10.5        | 9.2  | 9.85  | 1.3   |
| 08/01/95 | 14.3        | 11.1 | 12.11 | 3.2   | 11.2        | 9.3  | 10.14 | 1.9   |
| 08/02/95 | 13.4        | 12.3 | 12.85 | 1.1   | 11.0        | 9.5  | 10.19 | 1.5   |
| 08/03/95 | 14.1        | 12.1 | 13.08 | 2.0   | 11.9        | 9.7  | 10.68 | 2.2   |
| 08/04/95 | 14.8        | 12.9 | 13.80 | 1.9   | 12.4        | 10.5 | 11.15 | 1.9   |
| 08/05/95 | 13.9        | 12.2 | 13.01 | 1.7   | 10.9        | 9.2  | 9.94  | 1.7   |
| 08/06/95 | 13.7        | 11.2 | 12.48 | 2.5   | 10.5        | 8.3  | 9.35  | 2.2   |
| 08/07/95 | 13.7        | 11.2 | 12.41 | 2.5   | 10.6        | 8.4  | 9.40  | 2.2   |
| 08/08/95 | 13.7        | 11.2 | 12.55 | 2.5   | 10.3        | 8.3  | 9.28  | 2.0   |
| 08/09/95 | 13.8        | 11.7 | 12.82 | 2.1   | 10.9        | 8.8  | 9.84  | 2.1   |
| 08/10/95 | 13.3        | 12.1 | 12.69 | 1.2   | 10.7        | 9.5  | 10.01 | 1.2   |
| 08/11/95 | 14.3        | 12.0 | 13.10 | 2.3   | 11.0        | 9.2  | 9.96  | 1.8   |
| 08/12/95 | 14.3        | 11.3 | 12.80 | 3.0   | 10.7        | 8.3  | 9.40  | 2.4   |
| 08/13/95 | 12.9        | 11.7 | 12.26 | 1.2   | 10.2        | 8.6  | 9.35  | 1.6   |
| 08/14/95 | 12.6        | 11.2 | 11.90 | 1.4   | 10.0        | 8.6  | 9.38  | 1.4   |
| 08/15/95 | 11.1        | 9.7  | 10.28 | 1.4   | 8.9         | 7.5  | 8.18  | 1.4   |
| 08/16/95 | 11.6        | 8.3  | 10.13 | 3.3   | 9.0         | 6.7  | 7.86  | 2.3   |
| 08/17/95 | 11.9        | 9.2  | 10.63 | 2.7   | 9.1         | 7.0  | 8.13  | 2.1   |
| 08/18/95 | 11.8        | 10.0 | 10.95 | 1.8   | 9.2         | 7.6  | 8.43  | 1.6   |
| 08/19/95 | 11.2        | 10.3 | 10.78 | 0.9   | 9.0         | 7.7  | 8.36  | 1.3   |
| 08/20/95 | 11.0        | 9.9  | 10.56 | 1.1   | 9.0         | 7.8  | 8.40  | 1.2   |
| 08/21/95 | 10.9        | 9.9  | 10.40 | 1.0   | 9.2         | 8.2  | 8.63  | 1.0   |
| 08/22/95 | 10.3        | 9.1  | 9.67  | 1.2   | 9.3         | 8.2  | 8.58  | 1.1   |
| 08/23/95 | 9.8         | 8.4  | 9.24  | 1.4   | 8.8         | 7.3  | 8.04  | 1.5   |
| 08/24/95 | 9.8         | 8.6  | 9.27  | 1.2   | 8.9         | 7.3  | 8.10  | 1.6   |
| 08/25/95 | 9.8         | 8.6  | 9.29  | 1.2   | 8.5         | 7.1  | 7.82  | 1.4   |
| 08/26/95 | 9.5         | 8.2  | 8.89  | 1.3   | 8.2         | 6.7  | 7.49  | 1.5   |
| 08/27/95 | 10.0        | 7.7  | 8.90  | 2.3   | 8.2         | 6.3  | 7.36  | 1.9   |
| 08/28/95 | 11.0        | 8.2  | 9.61  | 2.8   | 8.3         | 6.5  | 7.45  | 1.8   |
| 08/29/95 | 11.2        | 8.5  | 9.83  | 2.7   | 8.6         | 6.3  | 7.47  | 2.3   |
| 08/30/95 | 11.6        | 8.6  | 10.14 | 3.0   | 8.6         | 6.3  | 7.40  | 2.3   |
| 08/31/95 | 11.1        | 8.9  | 10.12 | 2.2   | 8.3         | 6.4  | 7.39  | 1.9   |
| 09/01/95 | 11.2        | 8.9  | 10.18 | 2.3   | 9.1         | 6.6  | 7.94  | 2.5   |
| 09/02/95 | 11.5        | 10.0 | 10.84 | 1.5   | 9.7         | 8.1  | 8.83  | 1.    |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS OOO and PPP in 1995

|          | STATION OOO |         |         |         | STATION PPP |         |         |         |
|----------|-------------|---------|---------|---------|-------------|---------|---------|---------|
| DATE     | MAX         | MIN     | MEAN    | RANGE   | MAX         | MIN     | MEAN    | RANGE   |
| 09/05/95 | 11.2        | 9.9     | 10.67   | 1.3     | 10.6        | 8.9     | 9.78    | 1.7     |
| 09/06/95 | 11.3        | 10.3    | 10.84   | 1.0     | 11.4        | 9.7     | 10.21   | 1.7     |
| 09/07/95 | 11.1        | 9.6     | 10.46   | 1.5     | 11.1        | 8.6     | 9.70    | 2.5     |
| 09/08/95 | 11.1        | 9.5     | 10.38   | 1.6     | 11.1        | 8.6     | 9.68    | 2.5     |
| 09/09/95 | 10.9        | 9.4     | 10.25   | 1.5     | 10.4        | 8.3     | 9.50    | 2.1     |
| 09/10/95 | 11.3        | 10.0    | 10.61   | 1.3     | 11.2        | 9.4     | 10.14   | 1.8     |
| 09/11/95 | 11.4        | 10.4    | 10.80   | 1.0     | 11.5        | 9.7     | 10.45   | 1.8     |
| 09/12/95 | 11.3        | 10.0    | 10.92   | 1.3     | 11.4        | 9.4     | 10.25   | 2.0     |
| 09/13/95 | 10.8        | 9.1     | 9.98    | 1.7     | 10.5        | 8.1     | 9.14    | 2.4     |
| 09/14/95 | 10.5        | 9.1     | 9.81    | 1.4     | 10.6        | 7.9     | 9.05    | 2.7     |
| 09/15/95 | 10.3        | 8.9     | 9.71    | 1.4     | 10.0        | 7.7     | 8.64    | 2.3     |
| 09/16/95 | 10.4        | 8.4     | 9.36    | 2.0     | 9.7         | 7.0     | 8.15    | 2.7     |
| 09/17/95 | 10.3        | 8.5     | 9.37    | 1.8     | 9.5         | 7.0     | 8.10    | 2.5     |
| 09/18/95 | 9.7         | 9.0     | 9.45    | 0.7     | 8.2         | 7.1     | 7.75    | 1.1     |
| 09/19/95 | 9.7         | 8.3     | 8.98    | 1.4     | 8.6         | 6.4     | 7.13    | 2.2     |
| 09/20/95 | 9.3         | 7.4     | 8.37    | 1.9     | 7.8         | 4.9     | 6.31    | 2.9     |
| 09/21/95 | 9.3         | 7.9     | 8.58    | 1.4     | 8.1         | 5.5     | 6.73    | 2.6     |
| 09/22/95 | 8.9         | 7.6     | 8.34    | 1.3     | 8.0         | 5.3     | 6.58    | 2.7     |
| 09/23/95 | 9.2         | 7.6     | 8.48    | 1.6     | 8.3         | 5.7     | 6.94    | 2.6     |
| 09/24/95 | 9.4         | 7.8     | 8.62    | 1.6     | 8.5         | 6.3     | 7.26    | 2.2     |
| 09/25/95 | 9.4         | 7.8     | 8.70    | 1.6     | 8.5         | 6.4     | 7.40    | 2.1     |
| 09/26/95 | 9.6         | 8.5     | 9.20    | 1.1     | 8.6         | 7.6     | 8.09    | 1.0     |
| 09/27/95 | 9.6         | 7.9     | 8.71    | 1.7     | 8.1         | 6.4     | 7.29    | 1.7     |
| 09/28/95 | 9.7         | 8.7     | 9.13    | 1.0     | 8.4         | 7.4     | 7.73    | 1.0     |
| 09/29/95 | 9.6         | 8.0     | 8.83    | 1.6     | 7.9         | 6.4     | 7.22    | 1.5     |
| 09/30/95 | 8.9         | 7.5     | 8.38    | 1.4     | 7.1         | 5.6     | 6.63    | 1.5     |
| 10/01/95 |             | 7.0     |         |         |             | 4.9     |         |         |
| COUNT    | 105         | 105     | 104     | 104     | 106         | 106     | 105     | 105     |
| MAX      | 15.1        | 12.9    | 13.8042 | 5.8     | 13.1        | 11.1    | 11.925  | 3.8     |
| MIN      | 8.9         | 7.0     | 8.3375  | 0.1     | 7.1         | 4.9     | 6.3125  | 0.6     |
| MEAN     | 11.7371     | 9.78762 | 10.7905 | 1.92596 | 10.275      | 8.23396 | 9.20175 | 2.02476 |
| ST.DEV   | 1.55253     | 1.38342 | 1.32156 | 1.14556 | 1.4137      | 1.39005 | 1.29661 | 0.672   |
| VARIANCE | 2.41033     | 1.91385 | 1.74652 | 1.31231 | 1.9985      | 1.93224 | 1.68119 | 0.45158 |

## GATES CREEK WATER TEMPERATURE (°C) at STATION QQQ in 1995

|          | STATION QQQ |      |       |       |
|----------|-------------|------|-------|-------|
| DATE     | MAX         | MIN  | MEAN  | RANGE |
| 06/17/95 | 10.1        |      |       |       |
| 06/18/95 | 11.4        | 7.5  | 9.54  | 3.9   |
| 06/19/95 | 12.5        | 8.5  | 10.36 | 4.0   |
| 06/20/95 | 14.2        | 9.2  | 11.68 | 5.0   |
| 06/21/95 | 14.5        | 9.7  | 12.16 | 4.8   |
| 06/22/95 | 13.6        | 11.2 | 12.30 | 2.4   |
| 06/23/95 | 12.6        | 10.3 | 11.43 | 2.3   |
| 06/24/95 | 12.0        | 10.2 | 11.00 | 1.8   |
| 06/25/95 | 11.0        | 8.3  | 9.81  | 2.7   |
| 06/26/95 | 13.0        | 7.6  | 10.33 | 5.4   |
| 06/27/95 | 14.4        | 9.2  | 11.87 | 5.2   |
| 06/28/95 | 15.3        | 10.5 | 13.00 | 4.8   |
| 06/29/95 | 15.6        | 11.3 | 13.63 | 4.3   |
| 06/30/95 | 17.0        | 12.0 | 14.42 | 5.0   |
| 07/01/95 | 14.6        | 13.2 | 13.95 | 1.4   |
| 07/02/95 | 15.1        | 12.5 | 13.50 | 2.6   |
| 07/03/95 | 14.3        | 12.4 | 13.37 | 1.9   |
| 07/04/95 | 13.9        | 12.0 | 12.85 | 1.9   |
| 07/05/95 | 13.4        | 11.3 | 12.37 | 2.1   |
| 07/06/95 | 14.3        | 10.0 | 12.12 | 4.3   |
| 07/07/95 | 14.1        | 10.3 | 12.38 | 3.8   |
| 07/08/95 | 14.2        | 12.4 | 13.01 | 1.8   |
| 07/09/95 | 13.9        | 11.7 | 12.86 | 2.2   |
| 07/10/95 | 12.8        | 9.5  | 11.07 | 3.3   |
| 07/11/95 | 9.8         | 9.0  | 9.47  | 0.8   |
| 07/12/95 | 11.3        | 8.4  | 9.83  | 2.9   |
| 07/13/95 | 11.2        | 9.4  | 10.20 | 1.8   |
| 07/14/95 | 11.6        | 9.7  | 10.56 | 1.9   |
| 07/15/95 | 12.8        | 8.9  | 11.00 | 3.9   |
| 07/16/95 | 13.3        | 10.7 | 12.01 | 2.6   |
| 07/17/95 | 13.6        | 10.9 | 12.28 | 2.7   |
| 07/18/95 | 14.9        | 10.9 | 12.96 | 4.0   |
| 07/19/95 | 16.2        | 11.7 | 13.99 | 4.5   |
| 07/20/95 | 16.2        | 13.0 | 14.70 | 3.2   |
| 07/21/95 | 16.6        | 12.9 | 14.77 | 3.7   |
| 07/22/95 | 16.4        | 13.1 | 14.65 | 3.3   |
| 07/23/95 | 15.1        | 13.0 | 14.04 | 2.1   |
| 07/24/95 | 12.9        | 12.4 | 12.63 | 0.5   |
| 07/25/95 | 15.3        | 12.0 | 13.30 | 3.3   |
| 07/26/95 | 14.3        | 11.8 | 12.93 | 2.5   |

## GATES CREEK WATER TEMPERATURE (°C) at STATION QQQ in 1995

| STATION QQQ |      |      |       |       |
|-------------|------|------|-------|-------|
| DATE        | MAX  | MIN  | MEAN  | RANGE |
| 07/27/95    | 12.8 | 10.7 | 11.63 | 2.1   |
| 07/28/95    | 12.0 | 9.1  | 10.80 | 2.9   |
| 07/29/95    | 14.0 | 10.0 | 11.84 | 4.0   |
| 07/30/95    | 12.4 | 10.7 | 11.58 | 1.7   |
| 07/31/95    | 12.7 | 10.8 | 11.78 | 1.9   |
| 08/01/95    | 14.1 | 11.1 | 12.30 | 3.0   |
| 08/02/95    | 13.1 | 11.2 | 12.18 | 1.9   |
| 08/03/95    | 14.3 | 11.4 | 12.74 | 2.9   |
| 08/04/95    | 14.5 | 12.3 | 13.26 | 2.2   |
| 08/05/95    | 13.0 | 10.3 | 11.60 | 2.7   |
| 08/06/95    | 12.8 | 9.4  | 11.05 | 3.4   |
| 08/07/95    | 13.1 | 9.6  | 11.25 | 3.5   |
| 08/08/95    | 13.0 | 9.5  | 11.33 | 3.5   |
| 08/09/95    | 13.3 | 10.4 | 11.91 | 2.9   |
| 08/10/95    | 12.9 | 11.1 | 11.93 | 1.8   |
| 08/11/95    | 14.3 | 11.0 | 12.34 | 3.3   |
| 08/12/95    | 13.6 | 9.9  | 11.68 | 3.7   |
| 08/13/95    | 12.4 | 10.5 | 11.35 | 1.9   |
| 08/14/95    | 12.4 | 10.4 | 11.32 | 2.0   |
| 08/15/95    | 11.0 | 9.3  | 10.03 | 1.7   |
| 08/16/95    | 11.5 | 8.2  | 9.84  | 3.3   |
| 08/17/95    | 11.8 | 8.2  | 10.04 | 3.6   |
| 08/18/95    | 11.5 | 9.0  | 10.25 | 2.5   |
| 08/19/95    | 10.9 | 9.0  | 9.90  | 1.9   |
| 08/20/95    | 10.7 | 8.9  | 9.87  | 1.8   |
| 08/21/95    | 10.9 | 9.7  | 10.28 | 1.2   |
| 08/22/95    | 10.2 | 9.3  | 9.72  | 0.9   |
| 08/23/95    | 9.8  | 8.2  | 9.01  | 1.6   |
| 08/24/95    | 9.8  | 8.2  | 9.04  | 1.6   |
| 08/25/95    | 9.7  | 7.8  | 8.80  | 1.9   |
| 08/26/95    | 9.6  | 7.3  | 8.38  | 2.3   |
| 08/27/95    | 9.8  | 6.6  | 8.28  | 3.2   |
| 08/28/95    | 10.4 | 6.9  | 8.56  | 3.5   |
| 08/29/95    | 10.8 | 6.7  | 8.65  | 4.1   |
| 08/30/95    | 10.6 | 6.6  | 8.61  | 4.0   |
| 08/31/95    | 10.1 | 6.6  | 8.50  | 3.5   |
| 09/01/95    | 10.9 | 7.0  | 9.11  | 3.9   |
| 09/02/95    | 11.3 | 9.3  | 10.39 | 2.0   |
| 09/03/95    | 12.4 | 9.6  | 10.91 | 2.8   |
| 09/04/95    | 12.1 | 8.8  | 10.55 | 3.3   |

## GATES CREEK WATER TEMPERATURE (°C) at STATION QQQ in 1995

| STATION QQQ |         |         |         |         |
|-------------|---------|---------|---------|---------|
| DATE        | MAX     | MIN     | MEAN    | RANGE   |
| 09/05/95    | 12.0    | 9.8     | 11.14   | 2.2     |
| 09/06/95    | 13.2    | 11.1    | 11.83   | 2.1     |
| 09/07/95    | 12.1    | 9.1     | 10.70   | 3.0     |
| 09/08/95    | 11.8    | 9.0     | 10.46   | 2.8     |
| 09/09/95    | 11.1    | 8.8     | 10.18   | 2.3     |
| 09/10/95    | 11.8    | 10.1    | 10.93   | 1.7     |
| 09/11/95    | 12.3    | 10.9    | 11.42   | 1.4     |
| 09/12/95    | 12.3    | 10.1    | 11.18   | 2.2     |
| 09/13/95    | 10.9    | 8.2     | 9.55    | 2.7     |
| 09/14/95    | 10.8    | 8.0     | 9.28    | 2.8     |
| 09/15/95    | 10.0    | 7.5     | 8.73    | 2.5     |
| 09/16/95    | 9.4     | 6.8     | 8.11    | 2.6     |
| 09/17/95    | 9.2     | 6.7     | 8.02    | 2.5     |
| 09/18/95    | 8.5     | 7.5     | 8.19    | 1.0     |
| 09/19/95    | 8.5     | 6.7     | 7.40    | 1.8     |
| 09/20/95    | 7.4     | 4.9     | 6.24    | 2.5     |
| 09/21/95    | 7.7     | 5.4     | 6.50    | 2.3     |
| 09/22/95    | 7.5     | 5.1     | 6.28    | 2.4     |
| 09/23/95    | 7.7     | 5.3     | 6.47    | 2.4     |
| 09/24/95    | 7.9     | 5.8     | 6.81    | 2.1     |
| 09/25/95    | 7.9     | 6.0     | 6.96    | 1.9     |
| 09/26/95    | 8.5     | 7.6     | 8.04    | 0.9     |
| 09/27/95    | 8.1     | 6.6     | 7.48    | 1.5     |
| 09/28/95    | 8.6     | 7.7     | 8.15    | 0.9     |
| 09/29/95    | 8.3     | 7.0     | 7.82    | 1.3     |
| 09/30/95    | 7.8     | 6.1     | 7.22    | 1.7     |
| 10/01/95    |         |         | 5.2     |         |
| COUNT       | 106     | 106     | 105     | 105     |
| MAX         | 17.0    | 13.2    | 14.7667 | 5.4     |
| MIN         | 7.4     | 4.9     | 6.2375  | 0.5     |
| MEAN        | 12.0481 | 9.36038 | 10.7237 | 2.66667 |
| ST.DEV      | 2.29014 | 2.04735 | 2.06163 | 1.05277 |
| VARIANCE    | 5.24476 | 4.19164 | 4.25033 | 1.10832 |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS NAD3 and PETER ALEC in 1994

|          | STATION NAD3 |      |       |       | STATION PETER ALEC |      |       |       |
|----------|--------------|------|-------|-------|--------------------|------|-------|-------|
| DATE     | MAX          | MIN  | MEAN  | RANGE | MAX                | MIN  | MEAN  | RANGE |
| 06/09/94 | 13.7         |      |       |       | 10.7               |      |       |       |
| 06/10/94 | 13.0         | 10.2 | 11.78 | 2.8   | 10.0               | 7.7  | 9.06  | 2.3   |
| 06/11/94 | 14.2         | 11.5 | 12.49 | 2.7   | 11.3               | 9.0  | 9.88  | 2.3   |
| 06/12/94 | 11.7         | 10.2 | 11.03 | 1.5   | 9.4                | 8.2  | 8.88  | 1.2   |
| 06/13/94 | 11.1         | 9.8  | 10.48 | 1.3   | 8.8                | 8.2  | 8.52  | 0.6   |
| 06/14/94 | 11.3         | 8.2  | 9.65  | 3.1   | 8.8                | 7.8  | 8.21  | 1.0   |
| 06/15/94 | 12.1         | 9.2  | 10.45 | 2.9   | 9.6                | 7.8  | 8.67  | 1.8   |
| 06/16/94 | 12.1         | 10.0 | 11.28 | 2.1   | 9.4                | 8.2  | 8.92  | 1.2   |
| 06/17/94 | 12.8         | 9.8  | 11.37 | 3.0   | 10.0               | 7.8  | 8.96  | 2.2   |
| 06/18/94 | 14.2         | 10.2 | 12.04 | 4.0   | 10.2               | 7.7  | 9.13  | 2.5   |
| 06/19/94 | 15.3         | 11.5 | 13.10 | 3.8   | 11.5               | 8.4  | 9.98  | 3.1   |
| 06/20/94 | 16.6         | 11.9 | 14.05 | 4.7   | 12.6               | 9.2  | 10.91 | 3.4   |
| 06/21/94 | 17.3         | 12.6 | 14.96 | 4.7   | 13.5               | 9.8  | 11.70 | 3.7   |
| 06/22/94 | 18.1         | 13.5 | 15.88 | 4.6   | 14.4               | 10.7 | 12.61 | 3.7   |
| 06/23/94 | 18.6         | 15.3 | 17.04 | 3.3   | 15.1               | 12.4 | 13.82 | 2.7   |
| 06/24/94 | 19.1         | 15.3 | 17.13 | 3.8   | 15.3               | 12.6 | 13.88 | 2.7   |
| 06/25/94 | 19.4         | 14.9 | 16.99 | 4.5   | 15.6               | 11.9 | 13.55 | 3.7   |
| 06/26/94 | 19.1         | 15.6 | 17.28 | 3.5   | 15.3               | 12.4 | 13.60 | 2.9   |
| 06/27/94 | 17.1         | 14.9 | 15.53 | 2.2   | 13.3               | 11.5 | 12.40 | 1.8   |
| 06/28/94 | 14.9         | 13.5 | 14.17 | 1.4   | 11.5               | 10.2 | 11.00 | 1.3   |
| 06/29/94 | 14.6         | 12.8 | 13.77 | 1.8   | 11.1               | 9.4  | 10.38 | 1.7   |
| 06/30/94 | 14.2         | 12.6 | 13.48 | 1.6   | 10.7               | 9.2  | 9.95  | 1.5   |
| 07/01/94 | 15.3         | 12.6 | 13.85 | 2.7   | 10.9               | 9.4  | 10.15 | 1.5   |
| 07/02/94 | 13.7         | 12.6 | 13.03 | 1.1   | 10.4               | 9.8  | 10.08 | 0.6   |
| 07/03/94 | 15.6         | 11.9 | 13.65 | 3.7   | 11.7               | 9.2  | 10.46 | 2.5   |
| 07/04/94 | 14.2         | 12.4 | 13.18 | 1.8   | 11.5               | 10.4 | 10.97 | 1.1   |
| 07/05/94 | 15.8         | 11.3 | 13.73 | 4.5   | 13.0               | 9.4  | 11.25 | 3.6   |
| 07/06/94 | 15.3         | 13.5 | 14.47 | 1.8   | 12.4               | 11.1 | 11.76 | 1.3   |
| 07/07/94 | 16.6         | 13.0 | 14.67 | 3.6   | 13.9               | 10.9 | 12.17 | 3.0   |
| 07/08/94 | 16.6         | 12.1 | 14.26 | 4.5   | 13.3               | 10.2 | 11.61 | 3.1   |
| 07/09/94 | 16.3         | 11.7 | 14.12 | 4.6   | 13.5               | 9.6  | 11.49 | 3.9   |
| 07/10/94 | 17.6         | 12.1 | 14.86 | 5.5   | 14.4               | 9.8  | 12.12 | 4.6   |
| 07/11/94 | 18.9         | 13.0 | 16.01 | 5.9   | 15.6               | 10.4 | 13.00 | 5.2   |
| 07/12/94 | 19.4         | 13.9 | 16.70 | 5.5   | 16.6               | 11.5 | 14.02 | 5.1   |
| 07/13/94 | 17.3         | 14.4 | 16.15 | 2.9   | 16.3               | 13.0 | 14.56 | 3.3   |
| 07/14/94 | 19.1         | 14.4 | 16.64 | 4.7   | 16.8               | 12.8 | 14.88 | 4.0   |
| 07/15/94 | 20.2         | 14.4 | 17.37 | 5.8   | 17.1               | 12.6 | 14.89 | 4.5   |
| 07/16/94 | 18.6         | 15.6 | 17.18 | 3.0   | 15.6               | 13.0 | 14.24 | 2.6   |
| 07/17/94 | 17.1         | 15.3 | 16.30 | 1.8   | 14.4               | 12.6 | 13.52 | 1.8   |
| 07/18/94 | 18.6         | 14.6 | 16.16 | 4.0   | 14.6               | 12.1 | 13.45 | 2.5   |
| 07/19/94 | 20.0         | 14.2 | 17.07 | 5.8   | 17.1               | 11.5 | 14.10 | 5.6   |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS NAD3 and PETER ALEC in 1994

|          | STATION NAD3 |      |       |       | STATION PETER ALEC |      |       |       |
|----------|--------------|------|-------|-------|--------------------|------|-------|-------|
| DATE     | MAX          | MIN  | MEAN  | RANGE | MAX                | MIN  | MEAN  | RANGE |
| 07/20/94 | 20.2         | 15.3 | 17.95 | 4.9   | 17.6               | 12.1 | 14.73 | 5.5   |
| 07/21/94 | 20.5         | 15.6 | 18.18 | 4.9   | 17.8               | 12.4 | 14.95 | 5.4   |
| 07/22/94 | 20.8         | 14.9 | 18.03 | 5.9   | 17.8               | 11.5 | 14.58 | 6.3   |
| 07/23/94 | 21.1         | 15.8 | 18.66 | 5.3   | 18.9               | 12.6 | 15.50 | 6.3   |
| 07/24/94 | 22.6         | 17.6 | 19.93 | 5.0   | 19.7               | 14.2 | 16.60 | 5.5   |
| 07/25/94 | 20.2         | 16.8 | 18.98 | 3.4   | 18.1               | 13.9 | 15.61 | 4.2   |
| 07/26/94 | 20.5         | 16.6 | 18.59 | 3.9   | 17.8               | 13.3 | 15.28 | 4.5   |
| 07/27/94 | 20.5         | 15.8 | 18.29 | 4.7   | 17.8               | 12.4 | 15.08 | 5.4   |
| 07/28/94 | 21.1         | 17.6 | 19.17 | 3.5   | 18.6               | 14.2 | 16.08 | 4.4   |
| 07/29/94 | 18.9         | 16.6 | 17.75 | 2.3   | 16.3               | 13.5 | 14.88 | 2.8   |
| 07/30/94 | 16.6         | 14.4 | 15.79 | 2.2   | 14.6               | 11.5 | 13.20 | 3.1   |
| 07/31/94 | 15.8         | 13.0 | 14.55 | 2.8   | 13.7               | 10.0 | 12.01 | 3.7   |
| 08/01/94 | 18.1         | 14.4 | 16.22 | 3.7   | 15.8               | 11.5 | 13.48 | 4.3   |
| 08/02/94 | 20.5         | 15.6 | 17.97 | 4.9   | 18.1               | 12.6 | 15.16 | 5.5   |
| 08/03/94 | 18.1         | 16.1 | 16.98 | 2.0   | 15.6               | 13.3 | 14.51 | 2.3   |
| 08/04/94 | 20.0         | 15.3 | 17.43 | 4.7   | 17.3               | 13.0 | 15.02 | 4.3   |
| 08/05/94 | 17.6         | 15.1 | 16.38 | 2.5   | 15.1               | 12.4 | 13.66 | 2.7   |
| 08/06/94 | 16.1         | 13.9 | 15.22 | 2.2   | 13.7               | 11.7 | 12.91 | 2.0   |
| 08/07/94 | 19.4         | 15.1 | 17.00 | 4.3   | 15.6               | 12.6 | 13.89 | 3.0   |
| 08/08/94 | 18.6         | 14.9 | 16.77 | 3.7   | 15.1               | 11.9 | 13.56 | 3.2   |
| 08/09/94 | 16.6         | 15.3 | 15.96 | 1.3   | 14.4               | 12.4 | 13.55 | 2.0   |
| 08/10/94 | 18.6         | 13.0 | 15.68 | 5.6   | 15.8               | 11.1 | 13.30 | 4.7   |
| 08/11/94 | 19.7         | 13.7 | 16.64 | 6.0   | 16.3               | 11.1 | 13.65 | 5.2   |
| 08/12/94 | 20.2         | 15.1 | 17.61 | 5.1   | 17.1               | 12.1 | 14.51 | 5.0   |
| 08/13/94 | 20.0         | 15.3 | 17.56 | 4.7   | 17.1               | 12.4 | 14.70 | 4.7   |
| 08/14/94 | 20.2         | 15.8 | 17.79 | 4.4   | 16.8               | 13.3 | 14.79 | 3.5   |
| 08/15/94 | 18.6         | 14.6 | 16.55 | 4.0   | 15.1               | 11.7 | 13.41 | 3.4   |
| 08/16/94 | 18.3         | 13.9 | 16.06 | 4.4   | 15.3               | 11.1 | 12.95 | 4.2   |
| 08/17/94 | 20.2         | 14.2 | 16.91 | 6.0   | 16.3               | 11.1 | 13.46 | 5.2   |
| 08/18/94 | 20.5         | 15.3 | 17.81 | 5.2   | 16.3               | 11.7 | 14.07 | 4.6   |
| 08/19/94 | 20.5         | 15.3 | 17.77 | 5.2   | 17.1               | 11.7 | 14.28 | 5.4   |
| 08/20/94 | 18.3         | 14.6 | 16.67 | 3.7   | 15.3               | 11.7 | 13.58 | 3.6   |
| 08/21/94 | 16.6         | 14.2 | 15.47 | 2.4   | 13.7               | 11.1 | 12.50 | 2.6   |
| 08/22/94 | 16.8         | 13.5 | 14.78 | 3.3   | 13.7               | 11.1 | 12.20 | 2.6   |
| 08/23/94 | 16.1         | 11.5 | 13.55 | 4.6   | 12.4               | 9.0  | 10.76 | 3.4   |
|          |              |      |       |       |                    |      |       |       |

## GATES CREEK WATER TEMPERATURE (°C) at STATIONS NAD3 and PETER ALEC in 1994

| DATE     | STATION NAD3 |         |         |         | STATION PETER ALEC |         |         |         |
|----------|--------------|---------|---------|---------|--------------------|---------|---------|---------|
|          | MAX          | MIN     | MEAN    | RANGE   | MAX                | MIN     | MEAN    | RANGE   |
| 08/30/94 | 16.8         | 11.9    | 14.65   | 4.9     | 13.9               | 9.0     | 11.41   | 4.9     |
| 08/31/94 | 16.3         | 13.0    | 14.61   | 3.3     | 14.2               | 10.0    | 11.84   | 4.2     |
| 09/01/94 | 15.6         | 11.5    | 13.43   | 4.1     | 12.8               | 9.4     | 10.96   | 3.4     |
| 09/02/94 | 13.3         | 11.5    | 12.25   | 1.8     | 11.1               | 9.4     | 10.25   | 1.7     |
| 09/03/94 | 14.4         | 10.9    | 12.21   | 3.5     | 12.4               | 9.2     | 10.29   | 3.2     |
| 09/04/94 | 12.1         | 9.4     | 10.99   | 2.7     | 10.4               | 7.7     | 9.17    | 2.7     |
| 09/05/94 | 14.6         | 10.0    | 12.03   | 4.6     | 12.1               | 8.4     | 10.08   | 3.7     |
| 09/06/94 | 14.6         | 11.9    | 13.13   | 2.7     | 12.1               | 9.6     | 10.56   | 2.5     |
| 09/07/94 | 12.8         | 9.8     | 11.14   | 3.0     | 9.8                | 7.8     | 8.98    | 2.0     |
| 09/08/94 | 13.3         | 10.7    | 11.88   | 2.6     | 11.1               | 9.0     | 9.86    | 2.1     |
| 09/09/94 | 13.7         | 10.7    | 12.24   | 3.0     | 10.4               | 8.6     | 9.53    | 1.8     |
| 09/10/94 | 13.0         | 10.0    | 11.53   | 3.0     | 10.0               | 7.8     | 8.85    | 2.2     |
| 09/11/94 | 11.3         | 8.0     | 9.99    | 3.3     | 9.0                | 6.1     | 7.75    | 2.9     |
| 09/12/94 | 13.0         | 10.0    | 11.41   | 3.0     | 10.9               | 8.0     | 9.24    | 2.9     |
| 09/13/94 | 13.0         | 10.9    | 12.02   | 2.1     | 11.1               | 8.6     | 9.80    | 2.5     |
| 09/14/94 | 11.7         | 9.6     | 10.93   | 2.1     | 9.8                | 7.7     | 8.98    | 2.1     |
| 09/15/94 | 13.5         | 9.4     | 11.58   | 4.1     | 11.3               | 7.8     | 9.68    | 3.5     |
| 09/16/94 | 14.2         | 11.9    | 12.98   | 2.3     | 13.3               | 9.8     | 11.11   | 3.5     |
| 09/17/94 | 13.0         | 10.7    | 11.98   | 2.3     | 11.3               | 8.6     | 9.82    | 2.7     |
| 09/18/94 | 13.3         | 9.4     | 11.27   | 3.9     | 11.3               | 7.8     | 9.31    | 3.5     |
| 09/19/94 | 13.0         | 11.1    | 11.77   | 1.9     | 10.9               | 8.6     | 9.66    | 2.3     |
| 09/20/94 | 11.9         | 8.6     | 10.49   | 3.3     | 9.8                | 7.1     | 8.31    | 2.7     |
| 09/21/94 | 13.3         | 9.2     | 11.21   | 4.1     | 10.9               | 6.9     | 8.72    | 4.0     |
| 09/22/94 | 14.2         | 10.7    | 12.45   | 3.5     | 11.3               | 8.2     | 9.73    | 3.1     |
| 09/23/94 | 13.7         | 12.4    | 13.16   | 1.3     | 11.1               | 9.4     | 10.22   | 1.7     |
| 09/24/94 | 15.1         | 12.1    | 13.42   | 3.0     | 12.6               | 9.8     | 10.95   | 2.8     |
| 09/25/94 | 13.3         | 10.7    | 12.08   | 2.6     | 11.5               | 8.6     | 9.98    | 2.9     |
| 09/26/94 | 10.4         | 8.4     | 9.62    | 2.0     | 9.0                | 6.9     | 8.08    | 2.1     |
| 09/27/94 | 11.3         | 9.0     | 9.95    | 2.3     | 9.6                | 7.3     | 8.23    | 2.3     |
| 09/28/94 | 9.4          | 6.9     | 8.30    | 2.5     | 8.0                | 5.0     | 6.58    | 3.0     |
| 09/29/94 | 8.4          | 6.1     | 7.40    | 2.3     | 7.1                | 4.3     | 5.76    | 2.8     |
| 09/30/94 | 8.0          | 7.7     | 7.84    | 0.3     | 6.3                | 5.6     | 6.05    | 0.7     |
| 10/01/94 |              |         |         |         |                    | 4.9     |         |         |
| COUNT    | 114          | 114     | 113     | 113     | 114                | 114     | 113     | 113     |
| MAX      | 22.6         | 17.6    | 19.9333 | 6.0     | 19.7               | 14.2    | 16.6042 | 6.3     |
| MIN      | 8.0          | 6.0     | 7.39583 | 0.3     | 6.3                | 4.3     | 5.7625  | 0.6     |
| MEAN     | 16.156       | 12.564  | 14.3798 | 3.55575 | 13.3509            | 10.0632 | 11.6844 | 3.26549 |
| ST.DEV   | 3.1478       | 2.54666 | 2.74289 | 1.34473 | 2.89283            | 2.16367 | 2.3984  | 1.33773 |
| VARIANC  | 9.909        | 6.48546 | 7.52343 | 1.80831 | 8.36846            | 4.68145 | 5.75231 | 1.78952 |

## NADINA RIVER WATER TEMPERATURE (°C) at STATIONS NAD1 and NAD2 in 1995

| DATE     | STATION NAD1* |      |       |       | STATION NAD2 |      |       |       |
|----------|---------------|------|-------|-------|--------------|------|-------|-------|
|          | MAX           | MIN  | MEAN  | RANGE | MAX          | MIN  | MEAN  | RANGE |
| 06/16/95 | 15.3          |      |       |       | 15.1         |      |       |       |
| 06/17/95 | 14.9          | 13.3 | 14.22 | 1.6   | 14.6         | 13.0 | 13.97 | 1.6   |
| 06/18/95 | 16.1          | 11.9 | 14.24 | 4.1   | 16.1         | 11.7 | 14.01 | 4.3   |
| 06/19/95 | 16.8          | 13.5 | 15.08 | 3.3   | 16.6         | 13.0 | 14.71 | 3.5   |
| 06/20/95 | 18.6          | 14.2 | 16.25 | 4.4   | 18.3         | 13.9 | 15.94 | 4.4   |
| 06/21/95 | 19.1          | 14.2 | 16.68 | 5.0   | 18.9         | 13.9 | 16.43 | 4.9   |
| 06/22/95 | 18.3          | 15.6 | 16.88 | 2.8   | 18.3         | 15.3 | 16.67 | 3.0   |
| 06/23/95 | 17.6          | 14.2 | 15.90 | 3.4   | 17.6         | 14.2 | 15.77 | 3.4   |
| 06/24/95 | 16.8          | 13.9 | 15.16 | 2.9   | 16.6         | 13.9 | 15.12 | 2.6   |
| 06/25/95 | 14.9          | 12.4 | 13.91 | 2.5   | 14.9         | 12.4 | 13.81 | 2.5   |
| 06/26/95 | 17.6          | 11.5 | 14.44 | 6.1   | 17.6         | 11.3 | 14.35 | 6.3   |
| 06/27/95 | 19.4          | 13.0 | 16.24 | 6.4   | 19.4         | 13.0 | 16.16 | 6.4   |
| 06/28/95 | 20.5          | 14.4 | 17.53 | 6.1   | 20.5         | 14.4 | 17.46 | 6.1   |
| 06/29/95 | 20.0          | 15.6 | 18.00 | 4.4   | 20.2         | 15.6 | 18.04 | 4.7   |
| 06/30/95 | 21.7          | 16.1 | 18.69 | 5.6   | 22.0         | 16.1 | 18.79 | 5.9   |
| 07/01/95 | 19.7          | 17.1 | 18.00 | 2.6   | 19.4         | 17.1 | 17.92 | 2.4   |
| 07/02/95 | 18.1          | 15.6 | 16.73 | 2.5   | 18.1         | 15.6 | 16.73 | 2.5   |
| 07/03/95 | 17.8          | 15.1 | 16.49 | 2.7   | 17.8         | 15.1 | 16.54 | 2.7   |
| 07/04/95 | 17.1          | 14.9 | 16.03 | 2.2   | 17.3         | 14.9 | 16.09 | 2.4   |
| 07/05/95 | 17.6          | 14.4 | 15.92 | 3.2   | 17.6         | 14.4 | 16.00 | 3.2   |
| 07/06/95 | 18.1          | 13.5 | 15.70 | 4.6   | 18.1         | 13.5 | 15.78 | 4.6   |
| 07/07/95 | 17.8          | 13.9 | 16.10 | 3.9   | 18.1         | 13.9 | 16.24 | 4.1   |
| 07/08/95 | 17.3          | 15.6 | 16.59 | 1.7   | 17.6         | 15.6 | 16.65 | 2.0   |
| 07/09/95 | 17.8          | 14.6 | 16.34 | 3.2   | 17.8         | 14.6 | 16.34 | 3.2   |
| 07/10/95 |               |      |       |       |              |      | 16.8  | 13.0  |
| 07/11/95 |               |      |       |       |              |      | 13.9  | 12.4  |
| 07/12/95 |               |      |       |       |              |      | 15.8  | 12.2  |
| 07/13/95 |               |      |       |       |              |      | 15.3  | 13.5  |
| 07/14/95 |               |      |       |       |              |      | 16.3  | 13.3  |
| 07/15/95 |               |      |       |       |              |      | 17.3  | 12.6  |
| 07/16/95 |               |      |       |       |              |      | 17.6  | 14.2  |
| 07/17/95 |               |      |       |       |              |      | 18.3  | 14.4  |
| 07/18/95 |               |      |       |       |              |      | 20.2  | 14.9  |
| 07/19/95 |               |      |       |       |              |      | 20.8  | 15.3  |
| 07/20/95 |               |      |       |       |              |      | 21.4  | 17.1  |
| 07/21/95 |               |      |       |       |              |      | 20.5  | 16.6  |
| 07/22/95 |               |      |       |       |              |      | 19.1  | 16.8  |
| 07/23/95 |               |      |       |       |              |      | 18.9  | 16.1  |
| 07/24/95 |               |      |       |       |              |      | 16.6  | 15.1  |
| 07/25/95 |               |      |       |       |              |      | 18.3  | 14.4  |

## NADINA RIVER WATER TEMPERATURE (°C) at STATIONS NAD1 and NAD2 in 1995

| DATE     | STATION NAD1* |      |       |       | STATION NAD2 |      |       |       |
|----------|---------------|------|-------|-------|--------------|------|-------|-------|
|          | MAX           | MIN  | MEAN  | RANGE | MAX          | MIN  | MEAN  | RANGE |
| 07/26/95 |               |      |       |       | 16.6         | 14.6 | 15.52 | 1.9   |
| 07/27/95 |               |      |       |       | 15.3         | 12.8 | 14.11 | 2.5   |
| 07/28/95 |               |      |       |       | 15.1         | 11.5 | 13.47 | 3.6   |
| 07/29/95 |               |      |       |       | 17.3         | 12.6 | 14.74 | 4.7   |
| 07/30/95 |               |      |       |       | 15.3         | 13.5 | 14.36 | 1.9   |
| 07/31/95 |               |      |       |       | 16.8         | 13.0 | 14.65 | 3.8   |
| 08/01/95 |               |      |       |       | 16.8         | 13.7 | 15.19 | 3.1   |
| 08/02/95 |               |      |       |       | 16.1         | 13.5 | 14.72 | 2.6   |
| 08/03/95 | 16.8          | 13.3 | 15.15 | 3.6   | 16.8         | 13.3 | 15.17 | 3.6   |
| 08/04/95 | 17.3          | 14.9 | 16.02 | 2.4   | 17.3         | 14.9 | 16.01 | 2.4   |
| 08/05/95 | 15.6          | 12.6 | 14.24 | 3.0   | 15.6         | 12.6 | 14.27 | 3.0   |
| 08/06/95 | 15.8          | 11.7 | 13.76 | 4.1   | 16.1         | 11.7 | 13.81 | 4.3   |
| 08/07/95 | 16.6          | 12.4 | 14.07 | 4.2   | 16.6         | 12.4 | 14.10 | 4.2   |
| 08/08/95 | 17.1          | 12.2 | 14.57 | 4.9   | 17.1         | 12.2 | 14.62 | 4.9   |
| 08/09/95 | 16.1          | 12.8 | 14.59 | 3.2   | 16.1         | 12.8 | 14.58 | 3.2   |
| 08/10/95 | 16.3          | 13.7 | 14.75 | 2.6   | 16.3         | 13.5 | 14.73 | 2.8   |
| 08/11/95 | 17.3          | 13.5 | 15.32 | 3.8   | 17.1         | 13.5 | 15.25 | 3.6   |
| 08/12/95 | 16.8          | 12.2 | 14.30 | 4.7   | 16.8         | 11.9 | 14.27 | 4.9   |
| 08/13/95 | 14.2          | 12.4 | 13.43 | 1.8   | 14.2         | 12.4 | 13.45 | 1.8   |
| 08/14/95 | 14.9          | 13.0 | 13.70 | 1.8   | 14.9         | 13.0 | 13.71 | 1.8   |
| 08/15/95 | 13.9          | 10.9 | 12.35 | 3.1   | 13.9         | 10.9 | 12.34 | 3.1   |
| 08/16/95 | 14.2          | 9.8  | 12.06 | 4.3   | 14.2         | 9.8  | 12.04 | 4.3   |
| 08/17/95 | 14.6          | 10.9 | 12.94 | 3.8   | 14.9         | 10.9 | 12.93 | 4.0   |
| 08/18/95 | 14.6          | 11.9 | 13.28 | 2.7   | 14.6         | 11.9 | 13.26 | 2.7   |
| 08/19/95 | 13.5          | 11.3 | 12.55 | 2.2   | 13.5         | 11.3 | 12.57 | 2.2   |
| 08/20/95 | 13.0          | 10.9 | 12.06 | 2.2   | 13.0         | 10.9 | 12.07 | 2.2   |
| 08/21/95 | 14.9          | 11.7 | 13.06 | 3.1   | 14.4         | 11.7 | 12.80 | 2.7   |
| 08/22/95 | 14.6          | 11.9 | 13.25 | 2.7   | 14.4         | 11.7 | 12.91 | 2.7   |
| 08/23/95 | 14.4          | 10.2 | 12.33 | 4.2   | 14.2         | 10.0 | 12.08 | 4.1   |
| 08/24/95 | 13.0          | 10.7 | 11.96 | 2.4   | 12.6         | 10.7 | 11.80 | 1.9   |
| 08/25/95 | 14.2          | 10.2 | 12.18 | 3.9   | 14.2         | 10.0 | 12.08 | 4.1   |
| 08/26/95 | 13.9          | 9.6  | 11.84 | 4.3   | 13.7         | 9.6  | 11.76 | 4.1   |
| 08/27/95 | 13.7          | 9.0  | 11.39 | 4.7   | 13.5         | 9.0  | 11.34 | 4.5   |
| 08/28/95 | 14.6          | 9.8  | 12.16 | 4.8   | 14.6         | 9.6  | 12.12 | 5.0   |
| 08/29/95 | 13.3          | 9.4  | 11.62 | 3.8   | 13.3         | 9.2  | 11.56 | 4.0   |
| 08/30/95 | 13.9          | 9.2  | 11.60 | 4.7   | 13.9         | 9.2  | 11.57 | 4.7   |
| 08/31/95 | 13.0          | 9.2  | 11.49 | 3.8   | 13.3         | 9.2  | 11.47 | 4.0   |
| 09/01/95 | 14.4          | 10.0 | 12.25 | 4.4   | 14.4         | 10.0 | 12.27 | 4.4   |
| 09/02/95 | 15.6          | 12.4 | 14.11 | 3.2   | 15.6         | 12.4 | 14.08 | 3.2   |
| 09/03/95 | 16.8          | 12.8 | 14.83 | 4.0   | 16.8         | 12.8 | 14.80 | 4.0   |

## NADINA RIVER WATER TEMPERATURE (°C) at STATIONS NAD1 and NAD2 in 1995

| DATE     | STATION NAD1* |         |         |         | STATION NAD2 |         |         |         |
|----------|---------------|---------|---------|---------|--------------|---------|---------|---------|
|          | MAX           | MIN     | MEAN    | RANGE   | MAX          | MIN     | MEAN    | RANGE   |
| 09/04/95 | 16.8          | 12.2    | 14.64   | 4.7     | 16.8         | 12.2    | 14.57   | 4.7     |
| 09/05/95 | 16.3          | 13.0    | 15.02   | 3.3     | 16.3         | 13.3    | 15.02   | 3.1     |
| 09/06/95 | 16.6          | 14.2    | 15.45   | 2.4     | 16.6         | 14.2    | 15.45   | 2.4     |
| 09/07/95 | 16.3          | 12.2    | 14.36   | 4.2     | 16.3         | 12.2    | 14.36   | 4.2     |
| 09/08/95 | 16.1          | 11.5    | 13.93   | 4.6     | 16.1         | 11.7    | 13.94   | 4.3     |
| 09/09/95 | 14.2          | 11.1    | 13.10   | 3.1     | 14.4         | 11.1    | 13.12   | 3.3     |
| 09/10/95 | 15.6          | 12.4    | 13.92   | 3.2     | 15.6         | 12.6    | 13.95   | 3.0     |
| 09/11/95 | 14.9          | 13.0    | 13.84   | 1.8     | 14.9         | 13.0    | 13.89   | 1.8     |
| 09/12/95 | 15.1          | 12.2    | 13.66   | 2.9     | 15.1         | 12.4    | 13.70   | 2.7     |
| 09/13/95 | 13.9          | 10.2    | 12.22   | 3.7     | 13.9         | 10.2    | 12.21   | 3.7     |
| 09/14/95 | 13.7          | 9.6     | 11.83   | 4.1     | 13.7         | 9.8     | 11.89   | 3.9     |
| 09/15/95 | 13.3          | 9.6     | 11.57   | 3.6     | 13.3         | 9.6     | 11.62   | 3.6     |
| 09/16/95 | 12.6          | 8.8     | 10.84   | 3.8     | 12.6         | 8.8     | 10.86   | 3.8     |
| 09/17/95 | 12.6          | 8.6     | 10.66   | 4.0     | 12.6         | 8.6     | 10.72   | 4.0     |
| 09/18/95 | 11.3          | 9.6     | 10.34   | 1.7     | 11.3         | 9.6     | 10.38   | 1.7     |
| 09/19/95 | 11.1          | 8.0     | 9.42    | 3.0     | 11.1         | 8.0     | 9.42    | 3.0     |
| 09/20/95 | 10.2          | 6.3     | 8.41    | 3.9     | 10.2         | 6.3     | 8.47    | 3.9     |
| 09/21/95 | 10.9          | 7.1     | 9.08    | 3.8     | 10.9         | 7.3     | 9.09    | 3.6     |
| 09/22/95 | 10.9          | 6.9     | 8.98    | 4.0     | 10.9         | 7.1     | 9.03    | 3.8     |
| 09/23/95 | 11.1          | 7.1     | 9.16    | 4.0     | 11.1         | 7.3     | 9.18    | 3.8     |
| 09/24/95 | 11.5          | 7.9     | 9.66    | 3.7     | 11.3         | 7.9     | 9.68    | 3.4     |
| 09/25/95 | 11.3          | 7.9     | 9.73    | 3.4     | 11.3         | 8.0     | 9.74    | 3.3     |
| 09/26/95 | 11.7          | 10.2    | 11.12   | 1.5     | 11.9         | 10.5    | 11.18   | 1.5     |
| 09/27/95 | 11.9          | 9.8     | 10.90   | 2.1     | 11.9         | 9.8     | 10.93   | 2.1     |
| 09/28/95 | 12.6          | 10.5    | 11.46   | 2.1     | 12.6         | 10.5    | 11.48   | 2.1     |
| 09/29/95 | 11.5          | 9.2     | 10.26   | 2.3     | 11.5         | 9.2     | 10.28   | 2.3     |
| 09/30/95 | 10.0          | 8.0     | 9.34    | 2.0     | 10.0         | 8.2     | 9.31    | 1.8     |
| 10/01/95 |               |         |         |         |              |         |         |         |
| COUNT    | 83            | 83      | 82      | 82      | 107          | 107     | 106     | 106     |
| MAX      | 21.67         | 17.05   | 18.6933 | 6.38    | 21.96        | 17.05   | 19.1629 | 6.38    |
| MIN      | 10.04         | 5.95    | 8.40917 | 1.48    | 10.04        | 5.95    | 8.46625 | 1.45    |
| MEAN     | 15.1963       | 11.66   | 13.5027 | 3.46488 | 15.666       | 12.1829 | 13.9653 | 3.42934 |
| ST.DEV   | 2.53739       | 2.46744 | 2.38265 | 1.07767 | 2.5911       | 2.4692  | 2.40334 | 1.11542 |
| VARIANCE | 6.43837       | 6.08827 | 5.67704 | 1.16137 | 6.7136       | 6.09695 | 5.77605 | 1.24416 |

\* Data was lost between July 10 and August 2 due to a large tree and rootwad falling onto the temperature sensors of NAD1.

## WATER TEMP. (°C) in SLIM CR.(U.S. of Centennial) and CENTENIAL CR. in 1994

| DATE     | SLIM CR.(U.S. of Centennial) |      |       |       | CENTENIAL CREEK |     |       |       |
|----------|------------------------------|------|-------|-------|-----------------|-----|-------|-------|
|          | MAX                          | MIN  | MEAN  | RANGE | MAX             | MIN | MEAN  | RANGE |
| 06/06/94 | 11.7                         |      |       |       | 7.5             |     |       |       |
| 06/07/94 | 11.1                         | 10.7 | 10.91 | 0.4   | 6.9             | 6.1 | 6.48  | 0.8   |
| 06/08/94 | 11.1                         | 10.4 | 10.80 | 0.7   | 6.7             | 6.0 | 6.25  | 0.7   |
| 06/09/94 | 11.5                         | 10.2 | 10.67 | 1.3   | 7.7             | 5.4 | 6.45  | 2.3   |
| 06/10/94 | 13.7                         | 10.2 | 11.61 | 3.5   | 8.6             | 6.0 | 7.31  | 2.6   |
| 06/11/94 | 13.7                         | 11.7 | 12.43 | 2.0   | 9.2             | 6.7 | 7.80  | 2.5   |
| 06/12/94 | 13.0                         | 11.7 | 12.28 | 1.3   | 8.0             | 6.7 | 7.42  | 1.3   |
| 06/13/94 | 13.5                         | 11.1 | 11.94 | 2.4   | 8.4             | 6.3 | 7.21  | 2.1   |
| 06/14/94 | 12.1                         | 11.1 | 11.53 | 1.0   | 7.3             | 6.1 | 6.58  | 1.2   |
| 06/15/94 | 12.4                         | 10.2 | 11.30 | 2.2   | 7.1             | 5.0 | 6.23  | 2.1   |
| 06/16/94 | 14.2                         | 10.2 | 11.91 | 4.0   | 8.2             | 5.2 | 6.77  | 3.0   |
| 06/17/94 | 13.3                         | 11.1 | 11.91 | 2.2   | 8.2             | 6.1 | 7.20  | 2.1   |
| 06/18/94 | 13.7                         | 10.9 | 12.15 | 2.8   | 8.4             | 6.0 | 7.30  | 2.4   |
| 06/19/94 | 13.3                         | 11.3 | 12.19 | 2.0   | 8.6             | 6.1 | 7.52  | 2.5   |
| 06/20/94 | 14.2                         | 11.5 | 12.49 | 2.7   | 9.4             | 6.9 | 8.00  | 2.5   |
| 06/21/94 | 15.8                         | 11.3 | 13.01 | 4.5   | 10.4            | 6.1 | 8.25  | 4.3   |
| 06/22/94 | 16.6                         | 12.1 | 13.81 | 4.5   | 11.5            | 6.7 | 9.06  | 4.8   |
| 06/23/94 | 17.3                         | 12.8 | 14.78 | 4.5   | 11.3            | 7.3 | 9.43  | 4.0   |
| 06/24/94 | 15.8                         | 13.5 | 14.69 | 2.3   | 11.5            | 8.0 | 9.69  | 3.5   |
| 06/25/94 | 17.6                         | 13.7 | 15.08 | 3.9   | 11.7            | 8.4 | 10.11 | 3.3   |
| 06/26/94 | 17.1                         | 14.2 | 15.05 | 2.9   | 11.9            | 8.6 | 10.15 | 3.3   |
| 06/27/94 | 16.1                         | 13.0 | 14.44 | 3.1   | 10.0            | 7.7 | 9.04  | 2.3   |
| 06/28/94 | 14.9                         | 13.3 | 14.08 | 1.6   | 9.4             | 7.8 | 8.76  | 1.6   |
| 06/29/94 | 15.6                         | 13.0 | 13.89 | 2.6   | 9.8             | 7.8 | 8.68  | 2.0   |
| 06/30/94 | 13.9                         | 13.0 | 13.43 | 0.9   | 9.0             | 7.8 | 8.30  | 1.2   |
| 07/01/94 | 13.7                         | 13.0 | 13.31 | 0.7   | 8.4             | 7.8 | 8.13  | 0.6   |
| 07/02/94 | 13.9                         | 12.8 | 13.16 | 1.1   | 8.8             | 7.5 | 7.94  | 1.3   |
| 07/03/94 | 12.8                         | 12.4 | 12.59 | 0.4   | 7.7             | 7.1 | 7.49  | 0.6   |
| 07/04/94 | 12.6                         | 12.1 | 12.28 | 0.5   | 7.5             | 6.9 | 7.07  | 0.6   |
| 07/05/94 | 13.9                         | 11.5 | 12.48 | 2.4   | 8.2             | 6.3 | 7.27  | 1.9   |
| 07/06/94 | 13.0                         | 12.1 | 12.70 | 0.9   | 8.2             | 7.5 | 7.85  | 0.7   |
| 07/07/94 | 14.9                         | 11.7 | 12.84 | 3.2   | 9.6             | 6.9 | 8.20  | 2.7   |
| 07/08/94 | 14.6                         | 12.6 | 13.33 | 2.0   | 9.6             | 8.0 | 8.56  | 1.6   |
| 07/09/94 | 13.9                         | 11.7 | 12.66 | 2.2   | 8.8             | 6.5 | 7.70  | 2.3   |
| 07/10/94 | 13.5                         | 12.1 | 12.71 | 1.4   | 8.8             | 7.1 | 8.00  | 1.7   |
| 07/11/94 | 13.3                         | 11.9 | 12.50 | 1.4   | 8.6             | 7.1 | 7.94  | 1.5   |
| 07/12/94 | 15.6                         | 11.3 | 13.08 | 4.3   | 11.1            | 6.7 | 8.59  | 4.4   |
| 07/13/94 | 16.3                         | 11.9 | 13.70 | 4.4   | 11.3            | 7.1 | 9.08  | 4.2   |
| 07/14/94 | 16.6                         | 12.4 | 14.13 | 4.2   | 10.9            | 7.8 | 9.47  | 3.1   |
| 07/15/94 | 16.6                         | 12.8 | 14.32 | 3.8   | 10.9            | 8.0 | 9.61  | 2.9   |
| 07/16/94 | 15.8                         | 12.8 | 14.25 | 3.0   | 10.9            | 8.2 | 9.60  | 2.7   |
| 07/17/94 | 14.6                         | 13.5 | 13.89 | 1.1   | 10.0            | 8.8 | 9.34  | 1.2   |

## WATER TEMP. (°C) in SLIM CR.(U.S. of Centennial) and CENTENIAL CR. in 1994

| DATE     | SLIM CR.(U.S. of Centennial) |      |      |       | CENTENIAL CREEK |      |      |       |         |
|----------|------------------------------|------|------|-------|-----------------|------|------|-------|---------|
|          | DATE                         | MAX  | MIN  | MEAN  | RANGE           | MAX  | MIN  | MEAN  | RANGE   |
| 07/18/94 | 07/18/94                     | 13.9 | 13.3 | 13.68 | 0.6             | 10.0 | 8.6  | 9.23  | 1.4     |
| 07/19/94 | 07/19/94                     | 15.8 | 12.8 | 14.16 | 3.0             | 11.5 | 8.4  | 9.87  | 3.1     |
| 07/20/94 | 07/20/94                     | 18.1 | 13.0 | 15.03 | 5.1             | 13.0 | 8.6  | 10.79 | 4.4     |
| 07/21/94 | 07/21/94                     | 18.9 | 14.6 | 16.16 | 4.3             | 13.5 | 10.0 | 11.60 | 3.5     |
| 07/22/94 | 07/22/94                     | 18.6 | 13.5 | 15.48 | 5.1             | 12.8 | 8.6  | 10.83 | 4.2     |
| 07/23/94 | 07/23/94                     | 18.9 | 13.7 | 15.81 | 5.2             | 13.0 | 8.8  | 11.02 | 4.2     |
| 07/24/94 | 07/24/94                     | 16.8 | 13.9 | 15.35 | 2.9             | 11.7 | 9.6  | 10.73 | 2.1     |
| 07/25/94 | 07/25/94                     | 17.8 | 14.2 | 15.57 | 3.6             | 12.8 | 9.6  | 11.12 | 3.2     |
| 07/26/94 | 07/26/94                     | 16.6 | 14.4 | 15.18 | 2.2             | 12.4 | 10.4 | 11.28 | 2.0     |
| 07/27/94 | 07/27/94                     | 17.8 | 13.7 | 15.27 | 4.1             | 12.8 | 9.2  | 10.86 | 3.6     |
| 07/28/94 | 07/28/94                     | 18.6 | 13.7 | 15.70 | 4.9             | 13.7 | 9.2  | 11.46 | 4.5     |
| 07/29/94 | 07/29/94                     | 18.9 | 14.2 | 15.98 | 4.7             | 13.9 | 9.8  | 11.83 | 4.1     |
| 07/30/94 | 07/30/94                     | 18.1 | 14.6 | 16.05 | 3.5             | 13.0 | 10.2 | 11.65 | 2.8     |
| 07/31/94 | 07/31/94                     | 18.1 | 13.7 | 15.52 | 4.4             | 12.8 | 9.2  | 11.16 | 3.6     |
| 08/01/94 | 08/01/94                     | 18.3 | 13.9 | 15.73 | 4.4             | 13.0 | 9.2  | 11.16 | 3.8     |
| 08/02/94 | 08/02/94                     | 19.1 | 14.2 | 16.20 | 4.9             | 13.7 | 9.8  | 11.77 | 3.9     |
| 08/03/94 | 08/03/94                     | 19.1 | 14.6 | 16.34 | 4.5             | 14.4 | 10.4 | 12.26 | 4.0     |
| 08/04/94 | 08/04/94                     | 18.6 | 14.6 | 16.31 | 4.0             | 14.4 | 10.9 | 12.64 | 3.5     |
| 08/05/94 | 08/05/94                     | 16.3 | 14.6 | 15.56 | 1.7             | 12.1 | 10.2 | 11.46 | 1.9     |
| 08/06/94 | 08/06/94                     | 16.6 | 13.7 | 14.90 | 2.9             | 11.3 | 8.8  | 10.07 | 2.5     |
| 08/07/94 | 08/07/94                     | 17.8 | 12.8 | 14.89 | 5.0             | 12.6 | 7.1  | 9.95  | 5.5     |
| 08/08/94 | 08/08/94                     | 17.3 | 13.5 | 15.10 | 3.8             | 12.4 | 9.0  | 10.69 | 3.4     |
| 08/09/94 | 08/09/94                     | 16.3 | 13.7 | 14.79 | 2.6             | 11.9 | 10.0 | 10.89 | 1.9     |
| 08/10/94 | 08/10/94                     | 15.3 | 13.7 | 14.45 | 1.6             | 11.3 | 10.0 | 10.63 | 1.3     |
| 08/11/94 | 08/11/94                     | 16.1 | 12.6 | 14.23 | 3.5             | 11.3 | 8.2  | 9.93  | 3.1     |
| 08/12/94 | 08/12/94                     | 17.3 | 13.0 | 14.79 | 4.3             | 12.6 | 9.0  | 10.59 | 3.6     |
| 08/13/94 | 08/13/94                     | 17.8 | 13.0 | 15.00 | 4.8             | 13.0 | 9.0  | 10.99 | 4.0     |
| 08/14/94 | 08/14/94                     | 17.3 | 13.5 | 15.05 | 3.8             | 13.0 | 9.8  | 11.33 | 3.2     |
| 08/15/94 | 08/15/94                     | 16.3 | 13.9 | 14.80 | 2.4             | 12.4 | 10.2 | 11.11 | 2.2     |
| 08/16/94 | 08/16/94                     | 17.3 | 12.6 | 14.45 | 4.7             | 12.1 | 8.6  | 10.44 | 3.5</td |

## WATER TEMP. (°C) in SLIM CR.(U.S. of Centennial) and CENTENIAL CR. in 1994

|          | SLIM CR.(U.S. of Centennial) |         |         |         |        | CENTENIAL CREEK |         |         |  |  |
|----------|------------------------------|---------|---------|---------|--------|-----------------|---------|---------|--|--|
| DATE     | MAX                          | MIN     | MEAN    | RANGE   | MAX    | MIN             | MEAN    | RANGE   |  |  |
| 08/29/94 | 15.3                         | 11.3    | 12.95   | 4.0     | 10.7   | 7.1             | 8.89    | 3.6     |  |  |
| 08/30/94 | 15.6                         | 11.3    | 12.94   | 4.3     | 10.7   | 7.7             | 9.13    | 3.0     |  |  |
| 08/31/94 | 15.3                         | 11.9    | 13.30   | 3.4     | 11.3   | 8.2             | 9.70    | 3.1     |  |  |
| 09/01/94 | 14.2                         | 12.4    | 13.17   | 1.8     | 11.1   | 9.2             | 10.01   | 1.9     |  |  |
| 09/02/94 | 15.1                         | 11.9    | 13.06   | 3.2     | 10.7   | 8.2             | 9.54    | 2.5     |  |  |
| 09/03/94 | 12.8                         | 11.7    | 12.26   | 1.1     | 9.2    | 8.2             | 8.83    | 1.0     |  |  |
| 09/04/94 | 14.2                         | 11.1    | 12.33   | 3.1     | 10.2   | 7.8             | 8.92    | 2.4     |  |  |
| 09/05/94 | 13.3                         | 11.5    | 12.23   | 1.8     | 10.2   | 8.4             | 9.17    | 1.8     |  |  |
| 09/06/94 | 14.6                         | 11.1    | 12.48   | 3.5     | 10.9   | 8.0             | 9.51    | 2.9     |  |  |
| 09/07/94 | 13.0                         | 11.3    | 12.19   | 1.7     | 10.2   | 8.8             | 9.59    | 1.4     |  |  |
| 09/08/94 | 13.5                         | 11.3    | 12.05   | 2.2     | 10.0   | 8.4             | 9.08    | 1.6     |  |  |
| 09/09/94 | 12.1                         | 10.7    | 11.33   | 1.4     | 8.8    | 7.7             | 8.26    | 1.1     |  |  |
| 09/10/94 | 11.7                         | 10.2    | 10.97   | 1.5     | 8.6    | 7.1             | 7.80    | 1.5     |  |  |
| 09/11/94 | 11.9                         | 9.8     | 10.70   | 2.1     | 8.0    | 6.5             | 7.23    | 1.5     |  |  |
| 09/12/94 | 11.1                         | 9.8     | 10.46   | 1.3     | 7.7    | 6.3             | 7.05    | 1.4     |  |  |
| 09/13/94 | 11.7                         | 10.2    | 10.82   | 1.5     | 8.6    | 7.1             | 7.76    | 1.5     |  |  |
| 09/14/94 | 12.8                         | 10.2    | 11.25   | 2.6     | 9.6    | 7.3             | 8.39    | 2.3     |  |  |
| 09/15/94 | 12.1                         | 10.9    | 11.40   | 1.2     | 9.6    | 8.0             | 8.80    | 1.6     |  |  |
| 09/16/94 | 13.7                         | 10.7    | 11.61   | 3.0     | 10.4   | 8.4             | 9.34    | 2.0     |  |  |
| 09/17/94 | 13.0                         | 10.2    | 11.33   | 2.8     | 10.4   | 7.7             | 8.98    | 2.7     |  |  |
| 09/18/94 | 13.0                         | 9.6     | 11.06   | 3.4     | 9.8    | 7.3             | 8.68    | 2.5     |  |  |
| 09/19/94 | 11.7                         | 10.0    | 10.85   | 1.7     | 9.2    | 7.5             | 8.42    | 1.7     |  |  |
| 09/20/94 | 12.1                         | 9.0     | 10.29   | 3.1     | 8.0    | 6.3             | 7.25    | 1.7     |  |  |
| 09/21/94 | 11.9                         | 8.6     | 9.93    | 3.3     | 7.8    | 4.9             | 6.39    | 2.9     |  |  |
| 09/22/94 | 12.8                         | 9.4     | 10.76   | 3.4     | 9.2    | 6.9             | 7.93    | 2.3     |  |  |
| 09/23/94 | 11.7                         | 10.7    | 11.09   | 1.0     | 9.6    | 8.4             | 8.92    | 1.2     |  |  |
| 09/24/94 | 13.0                         | 10.2    | 11.19   | 2.8     | 10.4   | 8.2             | 9.18    | 2.2     |  |  |
| 09/25/94 | 12.1                         | 9.8     | 10.77   | 2.3     | 9.4    | 7.3             | 8.48    | 2.1     |  |  |
| 09/26/94 | 10.9                         | 8.8     | 9.83    | 2.1     | 7.8    | 5.6             | 6.97    | 2.2     |  |  |
| 09/27/94 | 11.1                         | 9.6     | 10.23   | 1.5     | 8.6    | 7.1             | 7.75    | 1.5     |  |  |
| 09/28/94 | 10.7                         | 8.4     | 9.53    | 2.3     | 7.3    | 5.4             | 6.45    | 1.9     |  |  |
| 09/29/94 | 10.9                         | 9.0     | 9.73    | 1.9     | 7.5    | 6.0             | 6.67    | 1.5     |  |  |
| 09/30/94 | 9.8                          | 9.2     | 9.58    | 0.6     | 7.5    | 6.5             | 6.89    | 1.0     |  |  |
| 10/01/94 |                              |         |         |         |        | 6.7             |         |         |  |  |
| COUNT    | 117                          | 117     | 116     | 116     | 117    | 117             | 116     | 116     |  |  |
| MAX      | 19.1                         | 14.6    | 16.3375 | 5.2     | 14.4   | 10.9            | 12.6375 | 5.5     |  |  |
| MIN      | 9.8                          | 8.4     | 9.525   | 0.4     | 6.7    | 4.9             | 6.225   | 0.6     |  |  |
| MEAN     | 14.7855                      | 11.9641 | 13.1459 | 2.82759 | 10.3   | 7.80342         | 9.06451 | 2.51121 |  |  |
| ST.DEV.  | 2.32005                      | 1.5601  | 1.76501 | 1.33595 | 1.8968 | 1.35507         | 1.54615 | 1.08077 |  |  |
| VARIANCE | 5.38261                      | 2.43393 | 3.11527 | 1.78476 | 3.5978 | 1.83623         | 2.39057 | 1.16806 |  |  |

## WATER TEMPERATURE (°C) in DONNA CR. and SLIM CR.(D.S. of Donna) in 1994

| DATE     | DONNA CREEK |     |      |       | SLIM CR.(D.S.of Donna) |     |       |       |
|----------|-------------|-----|------|-------|------------------------|-----|-------|-------|
|          | MAX         | MIN | MEAN | RANGE | MAX                    | MIN | MEAN  | RANGE |
| 06/06/94 | 5.8         |     |      |       |                        |     |       |       |
| 06/07/94 | 5.6         | 4.5 | 5.04 | 1.1   |                        |     |       |       |
| 06/08/94 | 6.0         | 4.5 | 5.10 | 1.5   |                        |     |       |       |
| 06/09/94 | 6.5         | 4.1 | 5.27 | 2.4   |                        |     |       |       |
| 06/10/94 | 7.8         | 4.5 | 5.96 | 3.3   | 9.2                    |     |       |       |
| 06/11/94 | 7.3         | 5.0 | 5.97 | 2.3   | 8.8                    | 6.5 | 7.50  | 2.3   |
| 06/12/94 | 6.5         | 4.9 | 5.67 | 1.6   | 7.8                    | 6.3 | 7.06  | 1.5   |
| 06/13/94 | 7.3         | 4.7 | 5.62 | 2.6   | 8.2                    | 5.8 | 6.75  | 2.4   |
| 06/14/94 | 6.1         | 4.5 | 5.16 | 1.6   | 7.3                    | 5.8 | 6.39  | 1.5   |
| 06/15/94 | 6.3         | 3.8 | 5.23 | 2.5   | 7.8                    | 5.2 | 6.67  | 2.6   |
| 06/16/94 | 8.0         | 4.1 | 5.98 | 3.9   | 9.6                    | 5.8 | 7.58  | 3.8   |
| 06/17/94 | 7.5         | 4.7 | 5.93 | 2.8   | 8.8                    | 6.7 | 7.69  | 2.1   |
| 06/18/94 | 7.7         | 4.5 | 6.05 | 3.2   | 9.4                    | 6.3 | 7.82  | 3.1   |
| 06/19/94 | 8.0         | 5.0 | 6.42 | 3.0   | 9.4                    | 6.9 | 8.10  | 2.5   |
| 06/20/94 | 8.2         | 5.4 | 6.71 | 2.8   | 9.8                    | 7.3 | 8.40  | 2.5   |
| 06/21/94 | 9.8         | 4.7 | 7.03 | 5.1   | 11.3                   | 6.7 | 8.75  | 4.6   |
| 06/22/94 | 10.2        | 5.2 | 7.45 | 5.0   | 11.9                   | 7.1 | 9.28  | 4.8   |
| 06/23/94 | 10.4        | 5.8 | 7.82 | 4.6   | 12.1                   | 7.7 | 9.73  | 4.4   |
| 06/24/94 | 9.4         | 6.1 | 7.72 | 3.3   | 11.3                   | 8.0 | 9.66  | 3.3   |
| 06/25/94 | 9.8         | 6.5 | 8.01 | 3.3   | 11.9                   | 8.4 | 10.03 | 3.5   |
| 06/26/94 | 10.0        | 6.7 | 8.19 | 3.3   | 11.9                   | 8.8 | 10.13 | 3.1   |
| 06/27/94 | 9.0         | 6.0 | 7.46 | 3.0   | 11.1                   | 8.0 | 9.55  | 3.1   |
| 06/28/94 | 8.6         | 6.5 | 7.45 | 2.1   | 10.4                   | 8.8 | 9.63  | 1.6   |
| 06/29/94 | 8.6         | 6.7 | 7.49 | 1.9   | 10.9                   | 8.8 | 9.62  | 2.1   |
| 06/30/94 | 7.5         | 6.5 | 7.10 | 1.0   | 9.6                    | 8.6 | 8.98  | 1.0   |
| 07/01/94 | 7.7         | 6.7 | 7.09 | 1.0   | 8.8                    | 7.7 | 8.22  | 1.1   |
| 07/02/94 | 7.3         | 6.1 | 6.53 | 1.2   | 8.4                    | 7.3 | 7.73  | 1.1   |
| 07/03/94 | 6.7         | 6.0 | 6.32 | 0.7   | 7.7                    | 7.1 | 7.41  | 0.6   |
| 07/04/94 | 6.7         | 6.0 | 6.28 | 0.7   | 7.5                    | 6.9 | 7.10  | 0.6   |
| 07/05/94 | 8.4         | 5.6 | 6.80 | 2.8   | 8.8                    | 6.3 | 7.55  | 2.5   |
| 07/06/94 | 7.8         | 6.5 | 7.13 | 1.3   | 8.6                    | 7.5 | 8.03  | 1.1   |
| 07/07/94 | 9.0         | 6.1 | 7.58 | 2.9   | 10.2                   | 7.3 | 8.56  | 2.9   |
| 07/08/94 | 9.2         | 6.9 | 7.84 | 2.3   | 10.2                   | 8.2 | 9.04  | 2.0   |
| 07/09/94 | 9.0         | 5.4 | 7.11 | 3.6   | 9.8                    | 7.1 | 8.43  | 2.7   |
| 07/10/94 | 9.0         | 6.7 | 7.74 | 2.3   | 9.8                    | 8.0 | 8.92  | 1.8   |
| 07/11/94 | 8.6         | 6.5 | 7.40 | 2.1   | 9.6                    | 8.0 | 8.78  | 1.6   |
| 07/12/94 | 10.7        | 6.0 | 8.13 | 4.7   | 12.1                   | 7.7 | 9.63  | 4.4   |
| 07/13/94 | 10.4        | 6.5 |      |       |                        |     |       |       |

## WATER TEMPERATURE (°C) in DONNA CR. and SLIM CR.(D.S. of Donna) in 1994

| DATE     | DONNA CREEK |      |       |       | SLIM CR.(D.S.of Donna) |      |       |       |
|----------|-------------|------|-------|-------|------------------------|------|-------|-------|
|          | MAX         | MIN  | MEAN  | RANGE | MAX                    | MIN  | MEAN  | RANGE |
| 07/17/94 | 9.2         | 7.8  | 8.48  | 1.4   | 11.1                   | 9.6  | 10.28 | 1.5   |
| 07/18/94 | 9.0         | 7.8  | 8.38  | 1.2   | 10.7                   | 9.4  | 9.96  | 1.3   |
| 07/19/94 | 11.3        | 7.7  | 9.36  | 3.6   | 12.6                   | 9.4  | 10.90 | 3.2   |
| 07/20/94 | 12.4        | 7.7  | 9.94  | 4.7   | 14.2                   | 9.6  | 11.76 | 4.6   |
| 07/21/94 | 12.4        | 8.8  | 10.48 | 3.6   | 14.6                   | 11.1 | 12.58 | 3.5   |
| 07/22/94 | 12.1        | 7.5  | 9.87  | 4.6   | 14.4                   | 9.8  | 12.01 | 4.6   |
| 07/23/94 | 12.4        | 7.8  | 10.23 | 4.6   | 14.9                   | 10.2 | 12.36 | 4.7   |
| 07/24/94 | 11.3        | 8.4  | 10.00 | 2.9   | 13.0                   | 10.9 | 11.95 | 2.1   |
| 07/25/94 | 12.4        | 8.8  | 10.50 | 3.6   | 14.2                   | 10.9 | 12.22 | 3.3   |
| 07/26/94 | 11.7        | 9.4  | 10.38 | 2.3   | 12.6                   | 10.9 | 11.60 | 1.7   |
| 07/27/94 | 12.4        | 8.4  | 10.37 | 4.0   | 12.8                   | 10.0 | 11.16 | 2.8   |
| 07/28/94 | 13.0        | 8.6  | 10.81 | 4.4   | 13.7                   | 9.8  | 11.63 | 3.9   |
| 07/29/94 | 13.0        | 8.8  | 11.01 | 4.2   | 14.4                   | 10.4 | 12.29 | 4.0   |
| 07/30/94 | 12.4        | 9.0  | 10.78 | 3.4   | 13.9                   | 11.1 | 12.35 | 2.8   |
| 07/31/94 | 12.1        | 8.2  | 10.34 | 3.9   | 13.0                   | 9.8  | 11.19 | 3.2   |
| 08/01/94 | 12.8        | 8.4  | 10.60 | 4.4   | 14.6                   | 10.9 | 12.58 | 3.7   |
| 08/02/94 | 13.3        | 9.0  | 11.05 | 4.3   | 15.3                   | 11.1 | 13.11 | 4.2   |
| 08/03/94 | 13.7        | 9.6  | 11.45 | 4.1   | 15.6                   | 11.7 | 13.31 | 3.9   |
| 08/04/94 | 13.3        | 10.0 | 11.63 | 3.3   | 15.3                   | 11.9 | 13.41 | 3.4   |
| 08/05/94 | 11.5        | 10.0 | 10.77 | 1.5   | 13.3                   | 11.9 | 12.64 | 1.4   |
| 08/06/94 | 11.7        | 8.4  | 10.05 | 3.3   | 13.3                   | 10.7 | 11.83 | 2.6   |
| 08/07/94 | 12.4        | 7.7  | 10.03 | 4.7   | 14.4                   | 9.8  | 11.90 | 4.6   |
| 08/08/94 | 12.6        | 8.4  | 10.50 | 4.2   | 14.4                   | 10.9 | 12.39 | 3.5   |
| 08/09/94 | 11.9        | 9.4  | 10.53 | 2.5   | 13.5                   | 11.3 | 12.30 | 2.2   |
| 08/10/94 | 11.1        | 9.6  | 10.26 | 1.5   | 12.6                   | 11.3 | 11.94 | 1.3   |
| 08/11/94 | 11.9        | 8.2  | 9.96  | 3.7   | 13.0                   | 10.0 | 11.55 | 3.0   |
| 08/12/94 | 12.8        | 8.8  | 10.64 | 4.0   | 14.4                   | 10.7 | 12.22 | 3.7   |
| 08/13/94 | 13.0        | 8.8  | 10.89 | 4.2   | 14.9                   | 10.7 | 12.52 | 4.2   |
| 08/14/94 | 12.8        | 9.4  | 11.01 | 3.4   | 14.6                   | 11.3 | 12.69 | 3.3   |
| 08/15/94 | 11.9        | 9.6  | 10.60 | 2.3   | 13.7                   | 11.7 | 12.46 | 2.0   |
| 08/16/94 | 12.6        | 8.6  | 10.38 | 4.0   | 14.2                   | 10.2 | 12.03 | 4.0   |
| 08/17/94 | 12.4        | 8.6  | 10.41 | 3.8   | 13.5                   | 10.4 | 11.87 | 3.1   |
| 08/18/94 | 12.4        | 8.6  | 10.43 | 3.8   | 14.2                   | 10.2 | 11.91 | 4.0   |
| 08/19/94 | 12.8        | 8.8  | 10.64 | 4.0   | 14.4                   | 10.2 | 12.15 | 4.2   |
| 08/20/94 | 12.6        | 9.6  | 10.98 | 3.0   | 14.2                   | 11.3 | 12.58 | 2.9   |
| 08/21/94 | 11.1        | 9.4  | 10.23 | 1.7   | 12.4                   | 10.4 | 11.54 | 2.0   |
| 08/22/94 | 10.7        | 9.4  | 9.95  | 1.3   | 11.9                   | 10.2 | 11.26 | 1.7   |
| 08/23/94 | 10.2        | 8.6  | 9.48  | 1.6   | 11.7                   | 9.8  | 10.78 | 1.9   |
| 08/24/94 | 10.2        | 7.7  | 9.07  | 2.5   | 11.5                   | 9.4  | 10.49 | 2.1   |
| 08/25/94 | 10.9        | 7.1  | 8.93  | 3.8   | 12.6                   | 8.8  | 10.42 | 3.8   |
| 08/26/94 | 10.9        | 7.1  | 8.85  | 3.8   | 12.4                   | 8.8  | 10.33 | 3.6   |

## WATER TEMPERATURE (°C) in DONNA CR. and SLIM CR.(D.S. of Donna) in 1994

| DATE     | DONNA CREEK |         |         |         | SLIM CR.(D.S.of Donna) |         |         |         |
|----------|-------------|---------|---------|---------|------------------------|---------|---------|---------|
|          | MAX         | MIN     | MEAN    | RANGE   | MAX                    | MIN     | MEAN    | RANGE   |
| 08/27/94 | 11.1        | 7.1     | 8.98    | 4.0     | 12.4                   | 8.8     | 10.35   | 3.6     |
| 08/28/94 | 11.1        | 7.5     | 9.16    | 3.6     | 11.7                   | 8.8     | 10.20   | 2.9     |
| 08/29/94 | 11.5        | 7.7     | 9.43    | 3.8     | 11.7                   | 9.0     | 10.31   | 2.7     |
| 08/30/94 | 11.7        | 8.0     | 9.62    | 3.7     | 11.7                   | 9.2     | 10.38   | 2.5     |
| 08/31/94 | 11.5        | 8.6     | 9.93    | 2.9     | 12.6                   | 9.8     | 11.05   | 2.8     |
| 09/01/94 | 10.7        | 9.2     | 9.91    | 1.5     | 11.9                   | 10.4    | 11.03   | 1.5     |
| 09/02/94 | 10.9        | 8.4     | 9.61    | 2.5     | 11.7                   | 9.6     | 10.58   | 2.1     |
| 09/03/94 | 9.6         | 8.4     | 9.09    | 1.2     | 10.7                   | 9.6     | 10.24   | 1.1     |
| 09/04/94 | 10.4        | 8.2     | 9.27    | 2.2     | 11.5                   | 9.0     | 9.99    | 2.5     |
| 09/05/94 | 10.4        | 8.8     | 9.44    | 1.6     | 10.4                   | 9.6     | 9.97    | 0.8     |
| 09/06/94 | 11.3        | 8.4     | 9.80    | 2.9     | 11.1                   | 9.2     | 10.04   | 1.9     |
| 09/07/94 | 10.2        | 8.8     | 9.58    | 1.4     | 11.1                   | 10.0    | 10.55   | 1.1     |
| 09/08/94 | 10.4        | 8.6     | 9.30    | 1.8     | 11.3                   | 9.6     | 10.25   | 1.7     |
| 09/09/94 | 9.4         | 8.2     |         | 1.2     | 10.2                   | 9.2     | 9.65    | 1.0     |
| 09/10/94 |             |         |         |         | 9.6                    | 8.6     | 9.18    | 1.0     |
| 09/11/94 |             |         |         |         | 9.6                    | 8.2     | 8.88    | 1.4     |
| 09/12/94 |             |         |         |         | 9.2                    | 8.2     | 8.67    | 1.0     |
| 09/13/94 |             |         |         |         | 9.8                    | 8.6     | 9.11    | 1.2     |
| 09/14/94 |             |         |         |         | 11.1                   | 8.6     | 9.63    | 2.5     |
| 09/15/94 |             |         |         |         | 10.7                   | 9.4     | 10.00   | 1.3     |
| 09/16/94 |             |         |         |         | 11.9                   | 9.4     | 10.29   | 2.5     |
| 09/17/94 |             |         |         |         | 11.3                   | 8.8     | 10.04   | 2.5     |
| 09/18/94 |             |         |         |         | 11.1                   | 8.6     | 9.75    | 2.5     |
| 09/19/94 |             |         |         |         | 10.2                   | 8.8     | 9.53    | 1.4     |
| 09/20/94 |             |         |         |         | 10.0                   | 7.8     | 8.83    | 2.2     |
| 09/21/94 |             |         |         |         | 9.8                    | 7.1     | 8.32    | 2.7     |
| 09/22/94 |             |         |         |         |                        |         | 8.2     |         |
| COUNT    | 96          | 95      | 94      | 95      | 104                    | 104     | 103     | 103     |
| MAX      | 13.7        | 10.0    | 11.6333 | 5.1     | 15.6                   | 11.9    | 13.4125 | 4.8     |
| MIN      | 5.6         | 3.8     | 5.04167 | 0.7     | 7.3                    | 5.2     | 6.39167 | 0.6     |
| MEAN     | 10.2083     | 7.33263 | 8.72079 | 2.92211 | 11.629                 | 9.02885 | 10.2328 | 2.61553 |
| ST.DEV.  | 2.09561     | 1.63549 | 1.79511 | 1.13991 | 2.0437                 | 1.55308 | 1.69299 | 1.09808 |
| VARIANCE | 4.3916      | 2.67483 | 3.22243 | 1.29941 | 4.1769                 | 2.41205 | 2.86621 | 1.20578 |

APPENDIX A

## GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

|          | STATION AAA |      |       | STATION CCCEast |      |      | STATION CCCwest |     |      |
|----------|-------------|------|-------|-----------------|------|------|-----------------|-----|------|
| DATE     | MAX         | MIN  | MEAN  | MAX             | MIN  | MEAN | MAX             | MIN | MEAN |
| 10/01/95 |             |      |       | 6.5             |      |      | 7.0             |     |      |
| 10/02/95 | 8.6         | 6.7  | 7.45  | 7.0             | 5.6  | 6.38 | 7.4             | 6.4 | 6.82 |
| 10/03/95 | 7.9         | 5.5  | 6.63  | 5.9             | 4.1  | 5.16 | 6.8             | 5.8 | 6.31 |
| 10/04/95 | 7.7         | 5.8  | 6.70  | 6.5             | 4.8  | 5.69 | 6.9             | 6.0 | 6.44 |
| 10/05/95 | 7.6         | 6.6  | 6.98  | 6.5             | 5.7  | 6.05 | 6.7             | 6.4 | 6.49 |
| 10/06/95 | 8.2         | 6.4  | 7.16  | 6.7             | 5.7  | 6.10 | 6.7             | 5.9 | 6.42 |
| 10/07/95 | 7.3         | 5.8  | 6.45  | 6.3             | 4.6  | 5.43 | 6.5             | 5.6 | 6.03 |
| 10/08/95 | 7.5         | 5.2  | 6.32  | 6.0             | 4.3  | 5.30 | 6.5             | 5.3 | 5.91 |
| 10/09/95 | 7.5         | 5.5  | 6.31  | 5.6             | 4.6  | 5.06 | 6.0             | 5.2 | 5.64 |
| 10/10/95 | 6.7         | 5.1  | 5.75  | 5.4             | 3.7  | 4.53 | 5.8             | 4.7 | 5.08 |
| 10/11/95 | 6.3         | 4.6  | 5.29  | 5.1             | 3.6  | 4.34 | 5.2             | 4.3 | 4.72 |
| 10/12/95 | 5.4         | 3.6  | 4.55  | 4.2             | 2.7  | 3.56 | 4.6             | 3.6 | 4.23 |
| 10/13/95 | 6.5         | 4.5  | 5.32  | 4.8             | 3.6  | 4.24 | 5.0             | 4.1 | 4.57 |
| 10/14/95 | 6.5         | 4.9  | 5.59  | 5.6             | 4.4  | 4.97 | 5.2             | 4.5 | 4.85 |
| 10/15/95 | 5.3         | 4.5  | 5.04  | 4.8             | 3.0  | 4.13 | 4.7             | 3.3 | 4.25 |
| 10/16/95 | 5.6         | 4.4  | 4.95  | 4.8             | 3.2  | 4.04 | 4.3             | 3.4 | 3.79 |
| 10/17/95 | 5.6         | 4.5  | 4.92  | 4.6             | 3.6  | 4.04 | 3.8             | 3.0 | 3.38 |
| 10/18/95 | 5.0         | 3.3  | 4.18  | 4.8             | 3.2  | 3.90 | 3.7             | 2.7 | 3.10 |
| 10/19/95 | 4.8         | 3.7  | 4.27  | 4.5             | 3.4  | 3.93 | 3.6             | 2.8 | 3.21 |
| 10/20/95 | 4.7         | 3.6  | 4.18  | 4.3             | 3.3  | 3.68 | 3.4             | 2.8 | 3.03 |
| 10/21/95 | 4.6         | 3.1  | 3.69  | 4.1             | 2.9  | 3.30 | 3.3             | 2.5 | 2.76 |
| 10/22/95 | 3.8         | 2.7  | 3.26  | 3.4             | 2.3  | 2.85 | 2.9             | 2.2 | 2.54 |
| 10/23/95 | 4.7         | 3.2  | 3.81  | 4.1             | 2.8  | 3.28 | 3.3             | 2.5 | 2.87 |
| 10/24/95 | 3.9         | 2.7  | 3.31  | 3.7             | 2.4  | 3.00 | 3.1             | 2.2 | 2.66 |
| 10/25/95 | 4.3         | 3.3  | 3.79  | 3.8             | 3.0  | 3.35 | 3.3             | 2.5 | 2.86 |
| 10/26/95 | 3.1         | 2.3  | 2.77  | 2.9             | 2.3  | 2.63 | 2.4             | 1.8 | 2.14 |
| 10/27/95 | 3.0         | 1.9  | 2.45  | 2.7             | 1.8  | 2.23 | 2.4             | 1.6 | 1.94 |
| 10/28/95 | 2.5         | 1.4  | 2.02  | 1.9             | 0.8  | 1.40 | 1.8             | 0.9 | 1.38 |
| 10/29/95 | 1.6         | 0.6  | 1.10  | 1.1             | 0.0  | 0.53 | 1.2             | 0.5 | 0.81 |
| 10/30/95 | 1.4         | 0.5  | 1.03  | 0.7             | 0.0  | 0.34 | 0.9             | 0.3 | 0.64 |
| 10/31/95 | 1.7         | 0.3  | 1.02  | 0.7             | 0.0  | 0.36 | 0.9             | 0.3 | 0.61 |
| 11/01/95 | 1.2         | 0.2  | 0.73  | 0.2             | 0.0  | 0.06 | 0.9             | 0.3 | 0.61 |
| 11/02/95 | 1.5         | 0.3  | 0.75  | 0.3             | 0.0  | 0.10 | 0.8             | 0.4 | 0.60 |
| 11/03/95 | 1.6         | 0.2  | 0.90  | 0.7             | 0.0  | 0.23 | 1.0             | 0.4 | 0.69 |
| 11/04/95 | 2.5         | 1.1  | 1.59  | 1.3             | 0.7  | 0.93 | 1.2             | 0.7 | 0.90 |
| 11/05/95 | 1.8         | 0.3  | 0.99  | 0.9             | 0.2  | 0.66 | 1.1             | 0.4 | 0.72 |
| 11/06/95 | 0.9         | 0.1  | 0.50  | 0.2             | -0.1 | 0.06 | 0.6             | 0.3 | 0.48 |
| 11/07/95 | 0.4         | 0.2  | 0.31  | 0.0             | 0.0  | 0.00 | 0.4             | 0.2 | 0.35 |
| 11/08/95 | 0.5         | 0.0  | 0.20  | 0.0             | 0.0  | 0.00 | 0.4             | 0.0 | 0.27 |
| 11/09/95 | 0.1         | -0.1 | -0.01 | 0.0             | 0.0  | 0.00 | 0.2             | 0.0 | 0.08 |
| 11/10/95 | 0.0         | -0.1 | -0.03 | 0.0             | 0.0  | 0.00 | 0.1             | 0.0 | 0.05 |
| 11/11/95 | 0.0         | 0.0  | 0.00  | 0.0             | 0.0  | 0.00 | 0.2             | 0.1 | 0.15 |
| 11/12/95 | 0.1         | 0.0  | 0.04  | 0.0             | 0.0  | 0.00 | 0.4             | 0.2 | 0.32 |
| 11/13/95 | 0.2         | 0.0  | 0.06  | 0.0             | 0.0  | 0.00 | 0.6             | 0.2 | 0.39 |
| 11/14/95 | 0.1         | -0.1 | 0.00  | 0.0             | 0.0  | 0.00 | 0.4             | 0.0 | 0.20 |
| 11/15/95 | 0.3         | 0.1  | 0.18  | 0.0             | 0.0  | 0.00 | 0.6             | 0.4 | 0.51 |
| 11/16/95 | 0.4         | 0.1  | 0.28  | 0.0             | 0.0  | 0.00 | 0.6             | 0.4 | 0.53 |
| 11/17/95 | 0.6         | 0.0  | 0.34  | 0.0             | 0.0  | 0.00 | 0.7             | 0.2 | 0.47 |
| 11/18/95 | 0.7         | 0.2  | 0.36  | 0.0             | 0.0  | 0.00 | 0.6             | 0.4 | 0.45 |
| 11/19/95 | 0.5         | -0.1 | 0.15  | 0.0             | 0.0  | 0.00 | 0.5             | 0.1 | 0.28 |
| 11/20/95 | 0.4         | -0.1 | 0.21  | 0.0             | 0.0  | 0.00 | 0.4             | 0.1 | 0.30 |
| 11/21/95 | 0.7         | 0.3  | 0.48  | 0.1             | 0.0  | 0.06 | 0.6             | 0.4 | 0.46 |
| 11/22/95 | 0.7         | 0.4  | 0.56  | 0.2             | 0.1  | 0.15 | 0.6             | 0.4 | 0.54 |
| 11/23/95 | 0.8         | 0.2  | 0.57  | 0.2             | 0.0  | 0.16 | 0.6             | 0.2 | 0.50 |
| 11/24/95 | 1.1         | 0.6  | 0.79  | 0.3             | 0.1  | 0.23 | 0.6             | 0.5 | 0.56 |
| 11/25/95 | 0.9         | 0.4  | 0.75  | 0.4             | 0.1  | 0.27 | 0.7             | 0.4 | 0.55 |
| 11/26/95 | 1.2         | 0.6  | 0.84  | 0.4             | 0.2  | 0.32 | 0.7             | 0.5 | 0.61 |

APPENDIX A

## GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

|          | STATION AAA |      |       | STATION CCCEast |     |      | STATION CCCwest |     |      |
|----------|-------------|------|-------|-----------------|-----|------|-----------------|-----|------|
| DATE     | MAX         | MIN  | MEAN  | MAX             | MIN | MEAN | MAX             | MIN | MEAN |
| 11/27/95 | 0.7         | 0.2  | 0.40  | 0.2             | 0.0 | 0.10 | 0.6             | 0.2 | 0.40 |
| 11/28/95 | 0.2         | -0.1 | -0.01 | 0.0             | 0.0 | 0.00 | 0.2             | 0.0 | 0.05 |
| 11/29/95 | 0.0         | -0.1 | -0.03 | 0.0             | 0.0 | 0.00 | 0.0             | 0.0 | 0.00 |
| 11/30/95 | 0.0         | -0.1 | -0.00 | 0.0             | 0.0 | 0.00 | 0.1             | 0.0 | 0.04 |
| 12/01/95 | 0.0         | -0.1 | -0.01 | 0.0             | 0.0 | 0.00 | 0.2             | 0.0 | 0.11 |
| 12/02/95 | 0.0         | 0.0  | 0.00  | 0.0             | 0.0 | 0.00 | 0.2             | 0.0 | 0.11 |
| 12/03/95 | 0.0         | -0.1 | -0.02 | 0.0             | 0.0 | 0.00 | 0.2             | 0.0 | 0.13 |
| 12/04/95 | 0.0         | -0.1 | -0.03 | 0.0             | 0.0 | 0.00 | 0.0             | 0.0 | 0.00 |
| 12/05/95 | 0.0         | -0.1 | -0.01 | 0.0             | 0.0 | 0.00 | 0.0             | 0.0 | 0.00 |
| 12/06/95 | 0.0         | 0.0  | 0.00  | 0.0             | 0.0 | 0.00 | 0.1             | 0.0 | 0.05 |
| 12/07/95 | 0.0         | 0.0  | 0.00  | 0.0             | 0.0 | 0.00 | 0.0             | 0.0 | 0.00 |
| 12/08/95 | 0.0         | 0.0  | 0.00  | 0.0             | 0.0 | 0.00 | 0.0             | 0.0 | 0.00 |
| 12/09/95 | 0.0         | 0.0  | 0.00  | 0.0             | 0.0 | 0.00 | 0.0             | 0.0 | 0.00 |
| 12/10/95 | 0.0         | 0.0  | 0.00  | 0.0             | 0.0 | 0.00 | 0.1             | 0.0 | 0.07 |
| 12/11/95 | 0.          |      |       |                 |     |      |                 |     |      |

## APPENDIX A GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

| DATE     | STATION AAA |      |       | STATION CCeast |     |      | STATION CCCwest |      |       |
|----------|-------------|------|-------|----------------|-----|------|-----------------|------|-------|
|          | MAX         | MIN  | MEAN  | MAX            | MIN | MEAN | MAX             | MIN  | MEAN  |
| 01/23/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 01/24/96 | 0.0         | -0.1 | -0.01 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 01/25/96 | 0.0         | -0.1 | -0.02 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 01/26/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 01/27/96 | 0.0         | -0.1 | -0.01 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.03 |
| 01/28/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.09 |
| 01/29/96 | 0.0         | -0.1 | -0.05 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.10 |
| 01/30/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | -0.1            | -0.1 | -0.10 |
| 01/31/96 | 0.0         | -0.1 | -0.05 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.10 |
| 02/01/96 | 0.0         | -0.1 | -0.04 | 0.0            | 0.0 | 0.00 | -0.1            | -0.1 | -0.10 |
| 02/02/96 | 0.0         | -0.1 | -0.05 | 0.0            | 0.0 | 0.00 | -0.1            | -0.1 | -0.10 |
| 02/03/96 | 0.0         | -0.1 | -0.06 | 0.0            | 0.0 | 0.00 | -0.1            | -0.1 | -0.10 |
| 02/04/96 | 0.0         | -0.1 | -0.05 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.09 |
| 02/05/96 | 0.0         | -0.1 | -0.02 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.03 |
| 02/06/96 | 0.0         | -0.1 | -0.00 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 02/07/96 | 0.0         | 0.0  | 0.00  | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 02/08/96 | 0.0         | 0.0  | 0.00  | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 02/09/96 | 0.0         | 0.0  | 0.00  | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 02/10/96 | 0.0         | 0.0  | 0.00  | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 02/11/96 | 0.0         | 0.0  | 0.00  | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 02/12/96 | 0.0         | 0.0  | 0.00  | 0.0            | 0.0 | 0.00 | 0.1             | 0.0  | 0.04  |
| 02/13/96 | 0.0         | 0.0  | 0.00  | 0.0            | 0.0 | 0.00 | 0.1             | 0.0  | 0.04  |
| 02/14/96 | 0.0         | 0.0  | 0.00  | 0.0            | 0.0 | 0.00 | 0.1             | 0.1  | 0.10  |
| 02/15/96 | 0.0         | 0.0  | 0.00  | 0.1            | 0.0 | 0.01 | 0.1             | 0.1  | 0.10  |
| 02/16/96 | 0.1         | 0.0  | 0.02  | 0.1            | 0.0 | 0.08 | 0.1             | 0.1  | 0.10  |
| 02/17/96 | 0.1         | 0.0  | 0.03  | 0.1            | 0.1 | 0.10 | 0.1             | 0.1  | 0.10  |
| 02/18/96 | 0.1         | 0.0  | 0.03  | 0.1            | 0.0 | 0.10 | 0.1             | 0.0  | 0.08  |
| 02/19/96 | 0.1         | 0.0  | 0.01  | 0.1            | 0.0 | 0.04 | 0.1             | 0.0  | 0.07  |
| 02/20/96 | 0.1         | 0.0  | 0.02  | 0.1            | 0.0 | 0.05 | 0.1             | 0.0  | 0.09  |
| 02/21/96 | 0.1         | 0.0  | 0.04  | 0.1            | 0.1 | 0.10 | 0.1             | 0.1  | 0.10  |
| 02/22/96 | 0.1         | 0.0  | 0.03  | 0.1            | 0.1 | 0.10 | 0.1             | 0.0  | 0.09  |
| 02/23/96 | 0.1         | 0.0  | 0.00  | 0.1            | 0.0 | 0.05 | 0.1             | 0.0  | 0.05  |
| 02/24/96 | 0.0         | 0.0  | 0.00  | 0.1            | 0.0 | 0.10 | 0.1             | 0.0  | 0.08  |
| 02/25/96 | 0.0         | 0.0  | 0.00  | 0.1            | 0.0 | 0.03 | 0.0             | 0.0  | 0.00  |
| 02/26/96 | 0.0         | -0.1 | -0.01 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.00 |
| 02/27/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.01 |
| 02/28/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.00 |
| 02/29/96 | 0.0         | -0.1 | -0.04 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.01 |
| 03/01/96 | 0.0         | -0.1 | -0.04 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.04 |
| 03/02/96 | 0.0         | -0.1 | -0.01 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 03/03/96 | 0.0         | -0.1 | -0.02 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 03/04/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.01 |
| 03/05/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 03/06/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 03/07/96 | 0.0         | -0.1 | -0.02 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 03/08/96 | 0.0         | -0.1 | -0.01 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 03/09/96 | 0.0         | -0.1 | -0.01 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 03/10/96 | 0.0         | -0.1 | -0.00 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 03/11/96 | 0.0         | -0.1 | -0.01 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 03/12/96 | 0.0         | -0.1 | -0.00 | 0.0            | 0.0 | 0.00 | 0.0             | 0.0  | 0.00  |
| 03/13/96 | 0.0         | 0.0  | 0.00  | 0.0            | 0.0 | 0.00 | 0.1             | -0.1 | -0.01 |
| 03/14/96 | 0.0         | -0.1 | -0.05 | 0.0            | 0.0 | 0.00 | -0.1            | -0.1 | -0.10 |
| 03/15/96 | 0.0         | -0.1 | -0.07 | 0.0            | 0.0 | 0.00 | -0.1            | -0.1 | -0.10 |
| 03/16/96 | 0.0         | -0.1 | -0.05 | 0.0            | 0.0 | 0.00 | -0.1            | -0.1 | -0.10 |
| 03/17/96 | 0.0         | -0.1 | -0.04 | 0.0            | 0.0 | 0.00 | -0.1            | -0.1 | -0.10 |
| 03/18/96 | 0.0         | -0.1 | -0.05 | 0.0            | 0.0 | 0.00 | -0.1            | -0.1 | -0.10 |
| 03/19/96 | 0.0         | -0.1 | -0.04 | 0.0            | 0.0 | 0.00 | -0.1            | -0.1 | -0.10 |

## APPENDIX A GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

| DATE     | STATION AAA |      |       | STATION CCeast |     |      | STATION CCCwest |      |       |
|----------|-------------|------|-------|----------------|-----|------|-----------------|------|-------|
|          | MAX         | MIN  | MEAN  | MAX            | MIN | MEAN | MAX             | MIN  | MEAN  |
| 03/20/96 | 0.0         | -0.1 | -0.05 | 0.0            | 0.0 | 0.00 | -0.1            | -0.1 | -0.10 |
| 03/21/96 | 0.0         | -0.1 | -0.04 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.08 |
| 03/22/96 | 0.0         | -0.1 | -0.06 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.06 |
| 03/23/96 | 0.0         | -0.1 | -0.04 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.08 |
| 03/24/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.09 |
| 03/25/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.08 |
| 03/26/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.07 |
| 03/27/96 | 0.0         | -0.1 | -0.04 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.08 |
| 03/28/96 | 0.0         | -0.1 | -0.05 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.05 |
| 03/29/96 | 0.0         | -0.1 | -0.02 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.08 |
| 03/30/96 | 0.0         | -0.1 | -0.03 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.10 |
| 03/31/96 | 0.0         | -0.1 | -0.04 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.10 |
| 04/01/96 | 0.0         | -0.1 | -0.02 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.10 |
| 04/02/96 | 0.0         | -0.1 | -0.02 | 0.0            | 0.0 | 0.00 | 0.0             | -0.1 | -0.10 |
| 04/03/96 | 0.0         | -0.  |       |                |     |      |                 |      |       |

## APPENDIX A GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

|          | STATION AAA |     |       | STATION CCeast |     |       | STATION CCCwest |     |      |
|----------|-------------|-----|-------|----------------|-----|-------|-----------------|-----|------|
| DATE     | MAX         | MIN | MEAN  | MAX            | MIN | MEAN  | MAX             | MIN | MEAN |
| 05/16/96 | 5.1         | 2.0 | 3.23  | 4.0            | 1.3 | 2.44  | 2.6             | 0.7 | 1.43 |
| 05/17/96 | 4.7         | 1.8 | 3.20  | 3.6            | 1.2 | 2.46  | 2.5             | 0.6 | 1.47 |
| 05/18/96 | 4.5         | 2.6 | 3.23  | 3.3            | 2.0 | 2.55  | 2.2             | 0.9 | 1.44 |
| 05/19/96 | 5.6         | 1.9 | 3.38  | 4.4            | 1.3 | 2.69  | 2.8             | 0.9 | 1.55 |
| 05/20/96 | 3.5         | 2.1 | 2.75  | 2.8            | 1.8 | 2.32  | 1.8             | 0.9 | 1.29 |
| 05/21/96 | 4.7         | 1.5 | 2.91  | 3.5            | 1.2 | 2.34  | 2.8             | 0.7 | 1.46 |
| 05/22/96 | 4.5         | 2.3 | 3.26  | 3.6            | 2.1 | 2.87  | 2.6             | 1.1 | 1.67 |
| 05/23/96 | 5.2         | 2.5 | 3.64  | 4.4            | 2.3 | 3.25  | 2.7             | 1.2 | 1.75 |
| 05/24/96 | 4.0         | 2.3 | 3.09  | 3.4            | 2.1 | 2.85  | 2.2             | 1.1 | 1.60 |
| 05/25/96 | 4.7         | 2.4 | 3.35  | 4.1            | 2.3 | 3.08  | 2.5             | 1.2 | 1.70 |
| 05/26/96 | 3.8         | 1.9 | 2.71  | 3.2            | 1.8 | 2.51  | 2.2             | 0.9 | 1.49 |
| 05/27/96 | 4.5         | 1.7 | 3.00  | 3.7            | 1.6 | 2.68  | 2.8             | 0.9 | 1.68 |
| 05/28/96 | 4.8         | 1.9 | 3.30  | 3.9            | 1.9 | 3.00  | 2.8             | 0.9 | 1.82 |
| 05/29/96 | 5.0         | 2.3 | 3.53  | 4.4            | 2.3 | 3.34  | 2.8             | 1.2 | 1.99 |
| 05/30/96 | 5.1         | 2.5 | 3.83  | 4.9            | 2.6 | 3.77  | 3.0             | 1.4 | 2.16 |
| 05/31/96 | 5.3         | 3.0 | 4.02  | 4.9            | 3.2 | 4.10  | 3.0             | 1.6 | 2.16 |
| 06/01/96 | 5.1         | 2.8 | 3.78  | 4.8            | 2.9 | 3.93  | 3.1             | 1.4 | 2.12 |
| 06/02/96 | 5.1         | 2.8 | 3.92  | 5.0            | 3.2 | 4.12  | 3.2             | 1.6 | 2.25 |
| 06/03/96 | 5.9         | 3.2 | 4.23  | 5.7            | 3.6 | 4.57  | 3.8             | 1.8 | 2.50 |
| 06/04/96 | 5.1         | 3.2 | 4.12  | 5.3            | 3.8 | 4.64  | 3.5             | 1.8 | 2.63 |
| 06/05/96 | 5.4         | 3.0 | 4.25  | 5.3            | 3.6 | 4.45  | 4.3             | 1.8 | 3.05 |
| 06/06/96 | 6.1         | 3.9 | 4.92  | 6.0            | 4.3 | 5.09  | 4.6             | 2.5 | 3.52 |
| 06/07/96 | 6.3         | 3.8 | 4.84  | 5.9            | 4.2 | 5.03  | 4.8             | 2.4 | 3.59 |
| 06/08/96 | 5.2         | 4.0 | 4.68  | 5.3            | 4.3 | 4.83  | 4.2             | 2.8 | 3.49 |
| 06/09/96 | 4.9         | 3.3 | 4.28  | 4.8            | 3.6 | 4.31  | 4.0             | 2.3 | 3.23 |
| 06/10/96 | 6.8         | 3.9 | 5.08  | 6.3            | 4.0 | 4.97  | 5.0             | 2.8 | 3.93 |
| 06/11/96 | 6.4         | 4.2 | 5.19  | 6.0            | 4.3 | 5.12  | 4.9             | 3.2 | 4.13 |
| 06/12/96 | 6.9         | 3.9 | 5.24  | 6.2            | 4.0 | 5.10  | 5.5             | 3.0 | 4.26 |
| 06/13/96 | 6.4         | 4.4 | 5.38  | 6.3            | 4.6 | 5.39  | 5.3             | 3.6 | 4.47 |
| 06/14/96 | 6.4         | 4.4 | 5.38  | 6.0            | 4.4 | 5.19  | 5.2             | 3.7 | 4.59 |
| 06/15/96 | 5.8         | 4.8 | 5.34  | 5.4            | 4.8 | 5.13  | 4.8             | 4.1 | 4.61 |
| 06/16/96 | 6.7         | 3.8 | 5.14  | 6.2            | 3.9 | 4.98  | 5.1             | 3.2 | 4.16 |
| 06/17/96 | 6.8         | 4.8 | 5.72  | 6.5            | 4.8 | 5.61  | 5.3             | 4.1 | 4.77 |
| 06/18/96 | 7.9         | 5.1 | 6.23  | 7.2            | 5.1 | 6.00  | 6.5             | 4.4 | 5.38 |
| 06/19/96 | 8.6         | 5.3 | 6.95  | 8.1            | 5.4 | 6.75  | 7.2             | 4.8 | 6.14 |
| 06/20/96 | 9.2         | 6.3 | 7.58  | 8.5            | 6.4 | 7.36  | 7.8             | 5.7 | 6.85 |
| 06/21/96 | 9.0         | 7.3 | 7.97  | 8.3            | 7.1 | 7.68  | 8.0             | 6.8 | 7.34 |
| 06/22/96 | 8.9         | 7.0 | 7.92  | 8.2            | 7.0 | 7.65  | 8.0             | 6.5 | 7.24 |
| 06/23/96 | 9.7         | 7.7 | 8.44  | 9.3            | 7.7 | 8.23  | 8.5             | 7.0 | 7.78 |
| 06/24/96 | 9.4         | 7.3 | 8.39  | 9.1            | 7.3 | 8.23  | 8.6             | 6.5 | 7.70 |
| 06/25/96 | 10.2        | 7.9 | 8.96  | 10.0           | 7.9 | 8.78  | 8.9             | 7.5 | 8.30 |
| 06/26/96 | 11.3        | 8.0 | 9.36  | 10.5           | 8.0 | 9.14  | 9.7             | 7.6 | 8.67 |
| 06/27/96 | 11.8        | 8.6 | 9.75  | 11.2           | 8.5 | 9.63  | 9.9             | 8.1 | 8.81 |
| 06/28/96 | 10.5        | 7.9 | 8.84  | 9.7            | 7.9 | 8.66  | 8.8             | 7.4 | 7.99 |
| 06/29/96 | 9.4         | 7.6 | 8.42  | 8.6            | 7.4 | 8.04  | 8.1             | 7.1 | 7.55 |
| 06/30/96 | 11.6        | 7.3 | 9.05  | 9.9            | 6.9 | 8.40  | 9.2             | 6.6 | 7.83 |
| 07/01/96 | 11.8        | 6.9 | 9.05  | 10.3           | 6.9 | 8.59  | 8.9             | 6.5 | 7.61 |
| 07/02/96 | 11.5        | 6.6 | 8.92  | 9.8            | 6.5 | 8.33  | 8.9             | 6.0 | 7.47 |
| 07/03/96 | 10.5        | 8.5 | 9.10  | 9.0            | 8.0 | 8.53  | 8.6             | 7.6 | 8.10 |
| 07/04/96 | 9.5         | 7.4 | 8.46  | 8.9            | 7.3 | 8.22  | 8.2             | 6.8 | 7.52 |
| 07/05/96 | 11.3        | 7.5 | 9.03  | 9.7            | 7.2 | 8.40  | 9.2             | 6.8 | 7.73 |
| 07/06/96 | 12.6        | 7.0 | 9.48  | 10.4           | 6.8 | 8.60  | 9.4             | 6.3 | 7.81 |
| 07/07/96 | 13.1        | 7.8 | 10.27 | 10.7           | 7.5 | 9.22  | 9.7             | 7.0 | 8.45 |
| 07/08/96 | 12.9        | 9.6 | 11.10 | 11.1           | 8.9 | 10.03 | 10.7            | 8.4 | 9.49 |
| 07/09/96 | 13.1        | 9.6 |       |                | 8.8 |       | 10.4            | 8.5 |      |

## APPENDIX A GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

|          | STATION DDD |     |          | STATION EEE |     |      | STATION FFF |     |      |
|----------|-------------|-----|----------|-------------|-----|------|-------------|-----|------|
| DATE     | MAX         | MIN | MEAN     | MAX         | MIN | MEAN | MAX         | MIN | MEAN |
| 10/01/95 | 5.5         | 5.2 | 5.51     | 5.0         | 4.5 | 4.81 | 7.7         | 5.3 | 6.14 |
| 10/02/95 | 5.8         | 4.7 | 4.92     | 4.5         | 4.0 | 4.33 | 6.7         | 4.4 | 5.40 |
| 10/03/95 | 5.2         | 4.8 | 4.95     | 4.7         | 4.1 | 4.41 | 6.4         | 4.7 | 5.47 |
| 10/04/95 | 5.2         | 4.8 | 5.00     | 4.6         | 4.4 | 4.53 | 5.7         | 4.9 | 5.33 |
| 10/05/95 | 5.2         | 4.7 | 4.96     | 4.8         | 4.1 | 4.50 | 6.0         | 4.4 | 5.23 |
| 10/06/95 | 5.2         | 4.5 | 4.74     | 4.6         | 3.9 | 4.23 | 6.1         | 4.0 | 4.85 |
| 10/07/95 | 5.1         | 4.1 | 4.45     | 4.3         | 3.6 | 3.99 | 5.7         | 3.6 | 4.55 |
| 10/08/95 | 4.7         | 3.5 | 3.88     | 3.9         | 3.1 | 3.56 | 5.4         | 3.3 | 4.10 |
| 10/09/95 | 4.3         | 3.3 | 3.51     | 3.4         | 2.9 | 3.12 | 5.1         | 3.0 | 3.77 |
| 10/10/95 | 3.8         | 3.3 | 3.51     | 3.4         | 2.8 | 3.12 | 5.3         | 2.7 | 3.36 |
| 10/11/95 | 3.7         | 3.1 | 3.35     | 3.2         | 2.6 | 2.88 | 4.6         | 2.7 | 3.36 |
| 10/12/95 | 3.1         | 2.8 | 2.92     | 2.8         | 2.4 | 2.60 | 3.8         | 2.2 | 2.88 |
| 10/13/95 | 3.6         | 2.9 | 3.24     | 3.0         | 2.6 | 2.80 | 5.0         | 2.8 | 3.56 |
| 10/14/95 | 4.0         | 3.4 | 3.71     | 3.4         | 2.8 | 3.08 | 5.0         | 3.0 | 3.91 |
| 10/15/95 | 3.8         | 2.5 | 3.23     | 3.1         | 1.9 | 2.68 | 3.5         | 1.8 | 2.94 |
| 10/16/95 | 2.5         | 1.8 | 2.46     | 2.1         | 1.7 | 2.03 | 3.6         | 1.2 | 2.55 |
| 10/17/95 | 2.4         | 1.5 | 2.09</td |             |     |      |             |     |      |

## APPENDIX A GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

| DATE     | STATION DDD |      |       | STATION EEE |      |       | STATION FFF |      |       |
|----------|-------------|------|-------|-------------|------|-------|-------------|------|-------|
|          | MAX         | MIN  | MEAN  | MAX         | MIN  | MEAN  | MAX         | MIN  | MEAN  |
| 11/27/95 | 0.2         | 0.2  | 0.20  | 0.3         | 0.2  | 0.21  | 0.2         | 0.1  | 0.14  |
| 11/28/95 | 0.2         | 0.1  | 0.15  | 0.1         | 0.0  | 0.03  | 0.0         | -0.1 | -0.02 |
| 11/29/95 | 0.2         | 0.1  | 0.11  | 0.0         | 0.0  | 0.00  | 0.0         | -0.1 | -0.03 |
| 11/30/95 | 0.2         | 0.1  | 0.18  | 0.1         | 0.0  | 0.02  | 0.0         | 0.0  | 0.00  |
| 12/01/95 | 0.2         | 0.2  | 0.20  | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.04  |
| 12/02/95 | 0.2         | 0.2  | 0.20  | 0.1         | 0.0  | 0.10  | 0.1         | 0.0  | 0.03  |
| 12/03/95 | 0.2         | 0.2  | 0.20  | 0.1         | 0.0  | 0.06  | 0.1         | 0.0  | 0.05  |
| 12/04/95 | 0.2         | 0.1  | 0.16  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 12/05/95 | 0.2         | 0.1  | 0.14  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 12/06/95 | 0.2         | 0.1  | 0.17  | 0.1         | 0.0  | 0.04  | 0.1         | 0.0  | 0.03  |
| 12/07/95 | 0.1         | 0.0  | 0.09  | -0.1        | -0.1 | -0.10 | 0.0         | 0.0  | 0.00  |
| 12/08/95 | 0.1         | 0.0  | 0.04  | -0.1        | -0.1 | -0.10 | 0.0         | -0.1 | -0.05 |
| 12/09/95 | 0.1         | 0.0  | 0.06  | -0.1        | -0.1 | -0.10 | -0.1        | -0.1 | -0.10 |
| 12/10/95 | 0.1         | 0.0  | 0.05  | -0.1        | -0.1 | -0.10 | 0.0         | -0.1 | -0.03 |
| 12/11/95 | 0.1         | 0.0  | 0.04  | 0.0         | -0.1 | -0.10 | 0.0         | -0.1 | -0.04 |
| 12/12/95 | 0.1         | 0.0  | 0.03  | -0.1        | -0.1 | -0.10 | 0.0         | 0.0  | 0.00  |
| 12/13/95 | 0.1         | 0.0  | 0.02  | -0.1        | -0.1 | -0.10 | 0.0         | 0.0  | 0.00  |
| 12/14/95 | 0.1         | 0.0  | 0.03  | 0.0         | -0.1 | -0.06 | 0.0         | 0.0  | 0.00  |
| 12/15/95 | 0.1         | 0.0  | 0.03  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 12/16/95 | 0.1         | 0.0  | 0.05  | 0.0         | 0.0  | 0.00  | 0.1         | 0.0  | 0.00  |
| 12/17/95 | 0.1         | 0.0  | 0.07  | 0.0         | 0.0  | 0.00  | 0.1         | 0.0  | 0.09  |
| 12/18/95 | 0.1         | 0.0  | 0.04  | 0.1         | 0.0  | 0.05  | 0.1         | 0.1  | 0.10  |
| 12/19/95 | 0.1         | 0.0  | 0.05  | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  |
| 12/20/95 | 0.1         | 0.0  | 0.05  | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  |
| 12/21/95 | 0.1         | 0.0  | 0.08  | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  |
| 12/22/95 | 0.1         | 0.0  | 0.08  | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.03  |
| 12/23/95 | 0.1         | 0.0  | 0.10  | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.10  |
| 12/24/95 | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  |
| 12/25/95 | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.08  |
| 12/26/95 | 0.1         | 0.1  | 0.10  | -0.1        | 0.1  | 0.10  | 0.1         | 0.0  | 0.04  |
| 12/27/95 | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  |
| 12/28/95 | 0.1         | 0.1  | 0.10  | 0.2         | 0.1  | 0.13  | 0.1         | 0.1  | 0.10  |
| 12/29/95 | 0.1         | 0.1  | 0.10  | 0.2         | 0.2  | 0.20  | 0.1         | 0.1  | 0.10  |
| 12/30/95 | 0.2         | 0.1  | 0.11  | 0.2         | 0.2  | 0.20  | 0.1         | 0.1  | 0.10  |
| 12/31/95 | 0.2         | 0.1  | 0.13  | 0.2         | 0.1  | 0.12  | 0.1         | 0.1  | 0.10  |
| 01/01/96 | 0.2         | 0.1  | 0.12  | 0.2         | 0.1  | 0.19  | 0.1         | 0.1  | 0.10  |
| 01/02/96 | 0.1         | 0.1  | 0.10  | 0.2         | 0.1  | 0.15  | 0.1         | 0.0  | 0.07  |
| 01/03/96 | 0.1         | 0.1  | 0.10  | 0.2         | 0.1  | 0.15  | 0.1         | 0.1  | 0.10  |
| 01/04/96 | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.01  | 0.1         | 0.0  | 0.01  |
| 01/05/96 | 0.1         | 0.0  | 0.07  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 01/06/96 | 0.1         | 0.0  | 0.05  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 01/07/96 | 0.1         | 0.0  | 0.08  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 01/08/96 | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.07  | 0.0         | 0.0  | 0.00  |
| 01/09/96 | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.09  |
| 01/10/96 | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.07  |
| 01/11/96 | 0.1         | 0.0  | 0.02  | 0.1         | 0.0  | 0.01  | -0.1        | -0.1 | 0.02  |
| 01/12/96 | 0.0         | -0.1 | -0.02 | 0.1         | 0.0  | 0.00  | -0.1        | -0.1 | -0.10 |
| 01/13/96 | 0.0         | -0.1 | -0.04 | 0.1         | 0.0  | 0.03  | -0.1        | -0.1 | -0.10 |
| 01/14/96 | 0.0         | -0.1 | -0.00 | 0.1         | 0.0  | 0.03  | -0.1        | -0.1 | -0.02 |
| 01/15/96 | 0.0         | 0.0  | 0.00  | 0.1         | 0.0  | 0.08  | 0.0         | -0.1 | 0.03  |
| 01/16/96 | 0.1         | 0.0  | 0.05  | 0.1         | 0.0  | 0.10  | 0.0         | -0.1 | 0.04  |
| 01/17/96 | 0.1         | 0.0  | 0.03  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 01/18/96 | 0.1         | 0.0  | 0.02  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 01/19/96 | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 01/20/96 | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 01/21/96 | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  | -0.1        | -0.1 | 0.00  |
| 01/22/96 | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  | -0.1        | -0.1 | 0.00  |

## APPENDIX A GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

| DATE     | STATION DDD |     |      | STATION EEE |     |      | STATION FFF |     |      |
|----------|-------------|-----|------|-------------|-----|------|-------------|-----|------|
|          | MAX         | MIN | MEAN | MAX         | MIN | MEAN | MAX         | MIN | MEAN |
| 01/23/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 |
| 01/24/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 |
| 01/25/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 |
| 01/26/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 |
| 01/27/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 |
| 01/28/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 |
| 01/29/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 |
| 01/30/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 |
| 01/31/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 |
| 02/01/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.1         | 0.0 | 0.03 |
| 02/02/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.1         | 0.0 | 0.09 |
| 02/03/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.1         | 0.1 | 0.10 |
| 02/04/96 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 | 0.0         | 0.0 | 0.00 |
| 02/05/96 | 0.0         | 0.0 | 0.00 | 0.1         | 0.0 | 0.03 | 0.1         | 0.0 | 0.12 |
| 02/06/96 | 0.0         |     |      |             |     |      |             |     |      |

## APPENDIX A

## GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

|          | STATION DDD |      |       | STATION EEE |      |       | STATION FFF |      |       |
|----------|-------------|------|-------|-------------|------|-------|-------------|------|-------|
| DATE     | MAX         | MIN  | MEAN  | MAX         | MIN  | MEAN  | MAX         | MIN  | MEAN  |
| 03/20/96 | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.09  |
| 03/21/96 | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.04  |
| 03/22/96 | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.02  |
| 03/23/96 | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 03/24/96 | 0.1         | 0.0  | 0.06  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 03/25/96 | 0.1         | 0.0  | 0.08  | 0.1         | 0.0  | 0.04  | 0.1         | 0.0  | 0.04  |
| 03/26/96 | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.07  | 0.1         | 0.0  | 0.05  |
| 03/27/96 | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.01  | 0.1         | 0.0  | 0.04  |
| 03/28/96 | 0.1         | 0.1  | 0.10  | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.10  |
| 03/29/96 | 0.1         | 0.1  | 0.10  | 0.1         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 03/30/96 | 0.1         | 0.0  | 0.05  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 03/31/96 | 0.1         | 0.0  | 0.04  | 0.0         | 0.0  | 0.00  | 0.0         | -0.1 | -0.00 |
| 04/01/96 | 0.1         | 0.0  | 0.05  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 04/02/96 | 0.1         | 0.0  | 0.05  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 04/03/96 | 0.1         | 0.0  | 0.07  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 04/04/96 | 0.1         | 0.0  | 0.07  | 0.1         | 0.0  | 0.04  | 0.0         | -0.1 | -0.03 |
| 04/05/96 | 0.0         | -0.1 | -0.00 | 0.0         | 0.0  | 0.00  | -0.1        | -0.1 | -0.10 |
| 04/06/96 | 0.0         | -0.1 | -0.02 | 0.0         | -0.1 | -0.00 | -0.1        | -0.1 | -0.10 |
| 04/07/96 | 0.1         | 0.0  | 0.01  | 0.0         | -0.1 | -0.01 | -0.1        | -0.1 | -0.10 |
| 04/08/96 | 0.1         | 0.0  | 0.05  | 0.0         | 0.0  | 0.00  | 0.0         | -0.1 | -0.09 |
| 04/09/96 | 0.1         | 0.0  | 0.06  | 0.0         | 0.0  | 0.00  | 0.0         | -0.1 | -0.04 |
| 04/10/96 | 0.1         | 0.1  | 0.10  | 0.0         | 0.0  | 0.00  | 0.0         | -0.1 | -0.04 |
| 04/11/96 | 0.2         | 0.1  | 0.11  | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  |
| 04/12/96 | 0.2         | 0.1  | 0.12  | 0.0         | 0.0  | 0.00  | 0.1         | 0.0  | 0.01  |
| 04/13/96 | 0.2         | 0.0  | 0.08  | 0.0         | 0.0  | 0.00  | 0.1         | -0.1 | 0.03  |
| 04/14/96 | 0.2         | 0.0  | 0.10  | 0.0         | 0.0  | 0.00  | 0.1         | 0.0  | 0.06  |
| 04/15/96 | 0.1         | 0.0  | 0.05  | 0.0         | 0.0  | 0.00  | 0.1         | -0.1 | -0.03 |
| 04/16/96 | 0.1         | 0.0  | 0.04  | 0.0         | 0.0  | 0.00  | 0.1         | -0.1 | 0.02  |
| 04/17/96 | 0.1         | 0.0  | 0.06  | 0.0         | 0.0  | 0.00  | 0.1         | -0.1 | -0.02 |
| 04/18/96 | 0.2         | 0.1  | 0.13  | 0.1         | 0.0  | 0.02  | 0.2         | 0.0  | 0.12  |
| 04/19/96 | 0.2         | 0.1  | 0.15  | 0.1         | 0.0  | 0.06  | 0.2         | 0.1  | 0.13  |
| 04/20/96 | 0.2         | 0.1  | 0.20  | 0.2         | 0.1  | 0.12  | 0.3         | 0.1  | 0.15  |
| 04/21/96 | 0.2         | 0.0  | 0.13  | 0.2         | 0.0  | 0.10  | 0.3         | -0.1 | 0.10  |
| 04/22/96 | 0.2         | 0.0  | 0.11  | 0.1         | 0.0  | 0.03  | 0.2         | -0.1 | 0.04  |
| 04/23/96 | 0.1         | 0.0  | 0.03  | 0.2         | 0.1  | 0.11  | 0.2         | -0.1 | 0.07  |
| 04/24/96 | 0.0         | 0.0  | 0.00  | 0.0         | 0.0  | 0.00  | 0.0         | -0.1 | -0.06 |
| 04/25/96 | 0.2         | 0.0  | 0.10  | 0.2         | 0.0  | 0.10  | 0.3         | 0.0  | 0.10  |
| 04/26/96 | 0.2         | 0.1  | 0.18  | 0.2         | 0.2  | 0.20  | 0.4         | 0.1  | 0.23  |
| 04/27/96 | 0.2         | 0.1  | 0.20  | 0.2         | 0.2  | 0.20  | 0.5         | 0.2  | 0.28  |
| 04/28/96 | 0.2         | 0.2  | 0.20  | 0.3         | 0.2  | 0.26  | 0.5         | 0.2  | 0.30  |
| 04/29/96 | 0.2         | 0.1  | 0.18  | 0.3         | 0.3  | 0.30  | 0.8         | 0.2  | 0.35  |
| 04/30/96 | 0.2         | 0.2  | 0.20  | 0.3         | 0.2  | 0.29  | 0.7         | 0.1  | 0.36  |
| 05/01/96 | 0.2         | 0.2  | 0.20  | 0.3         | 0.3  | 0.30  | 0.7         | 0.1  | 0.37  |
| 05/02/96 | 0.2         | 0.2  | 0.20  | 0.3         | 0.3  | 0.30  | 1.1         | 0.2  | 0.43  |
| 05/03/96 | 0.2         | 0.1  | 0.19  | 0.3         | 0.3  | 0.30  | 0.8         | 0.2  | 0.41  |
| 05/04/96 | 0.2         | 0.1  | 0.18  | 0.3         | 0.2  | 0.30  | 1.1         | 0.2  | 0.43  |
| 05/05/96 | 0.2         | 0.2  | 0.20  | 0.3         | 0.2  | 0.25  | 0.9         | 0.1  | 0.38  |
| 05/06/96 | 0.2         | 0.2  | 0.20  | 0.3         | 0.2  | 0.27  | 0.4         | 0.0  | 0.19  |
| 05/07/96 | 0.2         | 0.2  | 0.20  | 0.2         | 0.2  | 0.20  | 0.5         | 0.0  | 0.18  |
| 05/08/96 | 0.2         | 0.2  | 0.20  | 0.3         | 0.2  | 0.26  | 0.6         | -0.1 | 0.23  |
| 05/09/96 | 0.3         | 0.2  | 0.24  | 0.3         | 0.3  | 0.30  | 1.0         | 0.0  | 0.34  |
| 05/10/96 | 0.4         | 0.2  | 0.30  | 0.4         | 0.3  | 0.31  | 1.4         | 0.1  | 0.53  |
| 05/11/96 | 0.5         | 0.3  | 0.36  | 0.4         | 0.3  | 0.34  | 1.3         | 0.1  | 0.60  |
| 05/12/96 | 0.4         | 0.3  | 0.38  | 0.4         | 0.3  | 0.40  | 0.7         | 0.3  | 0.47  |
| 05/13/96 | 0.3         | 0.0  | 0.17  | 0.4         | 0.1  | 0.23  | 0.9         | 0.2  | 0.39  |
| 05/14/96 | 0.7         | 0.2  | 0.38  | 0.2         | 0.1  | 0.17  | 1.3         | 0.1  | 0.44  |
| 05/15/96 | 0.7         | 0.3  | 0.46  | 0.2         | 0.2  | 0.20  | 1.0         | 0.2  | 0.47  |

## APPENDIX A

## GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

|          | STATION DDD |     |      | STATION EEE |     |      | STATION FFF |     |      |
|----------|-------------|-----|------|-------------|-----|------|-------------|-----|------|
| DATE     | MAX         | MIN | MEAN | MAX         | MIN | MEAN | MAX         | MIN | MEAN |
| 05/16/96 | 0.9         | 0.3 | 0.51 | 0.4         | 0.2 | 0.28 | 1.2         | 0.2 | 0.53 |
| 05/17/96 | 1.1         | 0.3 | 0.61 | 0.4         | 0.3 | 0.35 | 1.2         | 0.2 | 0.65 |
| 05/18/96 | 0.8         | 0.0 | 0.39 | 0.4         | 0.2 | 0.29 | 1.0         | 0.2 | 0.49 |
| 05/19/96 | 1.1         | 0.2 | 0.54 | 0.3         | 0.2 | 0.22 | 1.5         | 0.3 | 0.71 |
| 05/20/96 | 0.9         | 0.3 | 0.53 | 0.3         | 0.2 | 0.28 | 1.2         | 0.2 | 0.61 |
| 05/21/96 | 1.6         | 0.3 | 0.79 | 0.4         | 0.2 | 0.32 | 1.7         | 0.2 | 0.86 |
| 05/22/96 | 1.6         | 0.5 | 0.82 | 0.4         | 0.2 | 0.30 | 1.8         | 0.5 | 1.00 |
| 05/23/96 | 1.5         | 0.4 | 0.82 | 0.4         | 0.1 | 0.25 | 2.1         | 0.5 | 1.18 |
| 05/24/96 | 1.3         | 0.3 | 0.73 | 0.4         | 0.2 | 0.25 | 1.5         | 0.4 | 0.88 |
| 05/25/96 | 2.2         | 0.4 | 1.00 | 0.3         | 0.0 | 0.17 | 2.1         | 0.4 | 0.94 |
| 05/26/96 | 1.5         | 0.3 | 0.85 | 0.4         | 0.2 | 0.35 | 1.1         | 0.3 | 0.73 |
| 05/27/96 | 2.2         | 0.4 | 1.13 | 0.6         | 0.4 | 0.45 | 1.4         | 0.4 | 0.92 |
| 05/28/96 | 2.6         | 0.5 | 1.33 | 0.6         | 0.4 | 0.51 | 1.8         | 0.5 | 1.14 |
| 05/29/96 | 2.4         | 0.6 | 1.36 | 0.7         | 0.4 | 0.53 | 2.3         | 0   |      |

## GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

| DATE     | STATION MMM |      |       | STATION NAD1 |      |      | STATION NAD2 |      |      |
|----------|-------------|------|-------|--------------|------|------|--------------|------|------|
|          | MAX         | MIN  | MEAN  | MAX          | MIN  | MEAN | MAX          | MIN  | MEAN |
| 10/01/95 | 5.5         |      |       | 7.85         | 5.95 | 6.99 | 7.85         | 5.95 | 7.06 |
| 10/02/95 | 5.9         | 5.2  | 5.61  | 9.03         | 7.65 | 8.21 | 9.03         | 7.65 | 8.29 |
| 10/03/95 | 5.2         | 4.4  | 4.83  | 7.85         | 5.95 | 7.14 | 7.85         | 6.14 | 7.19 |
| 10/04/95 | 5.2         | 4.8  | 5.00  | 7.85         | 6.32 | 7.08 | 7.85         | 6.32 | 7.12 |
| 10/05/95 | 5.2         | 4.9  | 5.08  | 8.04         | 7.08 | 7.60 | 8.04         | 7.27 | 7.68 |
| 10/06/95 | 5.3         | 4.8  | 5.08  | 8.83         | 7.27 | 7.95 | 8.83         | 7.27 | 8.01 |
| 10/07/95 | 5.1         | 4.5  | 4.81  | 7.65         | 6.32 | 6.98 | 7.85         | 6.51 | 7.04 |
| 10/08/95 | 4.8         | 4.3  | 4.56  | 7.27         | 5.58 | 6.59 | 7.46         | 5.58 | 6.69 |
| 10/09/95 | 4.5         | 3.6  | 4.04  | 7.27         | 5.95 | 6.67 | 7.46         | 6.14 | 6.76 |
| 10/10/95 | 4.0         | 3.3  | 3.63  | 6.51         | 5.04 | 5.90 | 6.70         | 5.22 | 6.00 |
| 10/11/95 | 3.7         | 3.2  | 3.44  | 5.95         | 4.50 | 5.27 | 5.95         | 4.50 | 5.34 |
| 10/12/95 | 3.3         | 2.9  | 3.08  | 4.86         | 3.08 | 4.12 | 4.86         | 3.08 | 4.18 |
| 10/13/95 | 3.8         | 3.0  | 3.39  | 5.95         | 4.14 | 5.01 | 6.14         | 4.14 | 5.09 |
| 10/14/95 | 4.1         | 3.6  | 3.85  | 6.70         | 4.86 | 5.77 | 6.70         | 5.04 | 5.84 |
| 10/15/95 | 3.8         | 2.1  | 3.20  | 6.14         | 4.86 | 5.46 | 6.14         | 4.86 | 5.47 |
| 10/16/95 | 2.5         | 2.0  | 2.41  | 5.77         | 4.50 | 5.03 | 5.77         | 4.50 | 5.10 |
| 10/17/95 | 2.3         | 1.7  | 2.05  | 6.14         | 4.68 | 5.30 | 6.14         | 4.68 | 5.34 |
| 10/18/95 | 2.4         | 1.9  | 2.13  | 5.04         | 3.26 | 4.32 | 5.22         | 3.43 | 4.40 |
| 10/19/95 | 2.7         | 2.1  | 2.37  | 4.68         | 3.43 | 4.11 | 4.86         | 3.43 | 4.19 |
| 10/20/95 | 2.7         | 2.3  | 2.43  | 4.68         | 3.96 | 4.41 | 4.86         | 3.96 | 4.46 |
| 10/21/95 | 2.7         | 2.1  | 2.40  | 4.32         | 2.91 | 3.70 | 4.50         | 2.91 | 3.77 |
| 10/22/95 | 2.4         | 1.9  | 2.13  | 3.43         | 2.39 | 2.96 | 3.61         | 2.39 | 3.03 |
| 10/23/95 | 2.5         | 2.1  | 2.32  | 4.68         | 3.08 | 3.77 | 4.86         | 3.08 | 3.85 |
| 10/24/95 | 2.6         | 2.1  | 2.33  | 3.61         | 2.22 | 3.02 | 3.61         | 2.22 | 3.11 |
| 10/25/95 | 2.5         | 1.8  | 2.29  | 4.14         | 3.43 | 3.70 | 4.32         | 3.43 | 3.83 |
| 10/26/95 | 2.0         | 1.6  | 1.88  | 3.43         | 2.22 | 2.68 | 3.43         | 2.22 | 2.76 |
| 10/27/95 | 1.7         | 1.4  | 1.53  | 2.39         | 0.87 | 1.76 | 2.57         | 1.04 | 1.91 |
| 10/28/95 | 1.3         | 0.6  | 0.89  | 2.05         | 0.71 | 1.46 | 2.05         | 0.71 | 1.58 |
| 10/29/95 | 0.6         | 0.2  | 0.37  | 1.38         | 0.05 | 0.52 | 1.38         | 0.05 | 0.61 |
| 10/30/95 | 0.2         | 0.0  | 0.13  | 0.38         | 0.05 | 0.23 | 0.54         | 0.05 | 0.34 |
| 10/31/95 | 0.2         | -0.1 | 0.00  | 0.54         | 0.05 | 0.26 | 0.71         | 0.05 | 0.36 |
| 11/01/95 | 0.0         | -0.1 | -0.07 | 0.54         | 0.05 | 0.26 | 0.54         | 0.05 | 0.29 |
| 11/02/95 | 0.0         | -0.1 | -0.05 | 0.71         | 0.05 | 0.32 | 0.87         | 0.05 | 0.37 |
| 11/03/95 | 0.1         | 0.0  | 0.06  | 0.71         | 0.05 | 0.38 | 0.87         | 0.05 | 0.41 |
| 11/04/95 | 0.2         | 0.1  | 0.16  | 1.21         | 0.21 | 0.59 | 1.54         | 0.21 | 0.70 |
| 11/05/95 | 0.2         | -0.1 | 0.07  | 0.71         | 0.05 | 0.23 | 0.87         | 0.05 | 0.27 |
| 11/06/95 | 0.0         | -0.1 | -0.09 | 0.38         | 0.05 | 0.21 | 0.38         | 0.05 | 0.19 |
| 11/07/95 | -0.1        | -0.1 | -0.10 | 0.38         | 0.05 | 0.22 | 0.38         | 0.05 | 0.17 |
| 11/08/95 | -0.1        | -0.1 | -0.10 | 0.54         | 0.05 | 0.25 | 0.54         | 0.05 | 0.17 |
| 11/09/95 | -0.1        | -0.1 | -0.10 | 0.38         | 0.05 | 0.10 | 0.21         | 0.05 | 0.07 |
| 11/10/95 | -0.1        | -0.1 | -0.10 | 0.21         | 0.05 | 0.06 | 0.05         | 0.05 | 0.05 |
| 11/11/95 | 0.0         | -0.1 | -0.10 | 0.21         | 0.05 | 0.14 | 0.21         | 0.05 | 0.05 |
| 11/12/95 | 0.0         | -0.1 | -0.04 | 0.21         | 0.05 | 0.10 | 0.05         | 0.05 | 0.05 |
| 11/13/95 | 0.0         | 0.0  | 0.00  | 0.21         | 0.05 | 0.08 | 0.21         | 0.05 | 0.08 |
| 11/14/95 | 0.0         | 0.0  | 0.00  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 11/15/95 | 0.0         | -0.1 | -0.01 | 0.21         | 0.05 | 0.16 | 0.38         | 0.05 | 0.23 |
| 11/16/95 | 0.1         | 0.0  | 0.05  | 0.21         | 0.05 | 0.14 | 0.38         | 0.05 | 0.15 |
| 11/17/95 | 0.1         | 0.0  | 0.07  | 0.21         | 0.05 | 0.19 | 0.38         | 0.05 | 0.24 |
| 11/18/95 | 0.1         | 0.0  | 0.08  | 0.38         | 0.05 | 0.21 | 0.38         | 0.05 | 0.23 |
| 11/19/95 | 0.2         | 0.1  | 0.17  | 0.38         | 0.05 | 0.14 | 0.38         | 0.05 | 0.17 |
| 11/20/95 | 0.2         | 0.1  | 0.14  | 0.21         | 0.05 | 0.14 | 0.38         | 0.05 | 0.19 |
| 11/21/95 | 0.2         | 0.2  | 0.20  | 0.38         | 0.05 | 0.24 | 0.54         | 0.21 | 0.30 |
| 11/22/95 | 0.2         | 0.2  | 0.20  | 0.38         | 0.05 | 0.21 | 0.38         | 0.21 | 0.30 |
| 11/23/95 | 0.2         | 0.1  | 0.19  | 0.38         | 0.05 | 0.23 | 0.54         | 0.05 | 0.34 |
| 11/24/95 | 0.2         | 0.2  | 0.20  | 0.54         | 0.21 | 0.29 | 0.54         | 0.38 | 0.43 |
| 11/25/95 | 0.3         | 0.2  | 0.24  | 0.38         | 0.05 | 0.23 | 0.54         | 0.05 | 0.37 |
| 11/26/95 | 0.3         | 0.2  | 0.29  | 0.54         | 0.21 | 0.27 | 0.54         | 0.21 | 0.39 |

## GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

| DATE     | STATION MMM |      |       | STATION NAD1 |      |      | STATION NAD2 |      |      |
|----------|-------------|------|-------|--------------|------|------|--------------|------|------|
|          | MAX         | MIN  | MEAN  | MAX          | MIN  | MEAN | MAX          | MIN  | MEAN |
| 11/27/95 | 0.3         | 0.1  | 0.20  | 0.21         | 0.05 | 0.12 | 0.38         | 0.05 | 0.17 |
| 11/28/95 | 0.2         | 0.0  | 0.04  | 0.05         | 0.05 | 0.05 | 0.21         | 0.05 | 0.06 |
| 11/29/95 | 0.0         | 0.0  | 0.00  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 11/30/95 | 0.1         | 0.0  | 0.08  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 12/01/95 | 0.2         | 0.1  | 0.11  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 12/02/95 | 0.1         | 0.1  | 0.10  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 12/03/95 | 0.1         | 0.0  | 0.09  | 0.21         | 0.05 | 0.06 | 0.05         | 0.05 | 0.05 |
| 12/04/95 | 0.1         | 0.0  | 0.01  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 12/05/95 | 0.1         | 0.0  | 0.06  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 12/06/95 | 0.1         | 0.1  | 0.10  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 12/07/95 | 0.0         | -0.1 | -0.03 | 0.05         | 0.05 | 0.05 | 0            |      |      |

## APPENDIX A GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

|          | STATION MMM |      |       | STATION NAD1 |      |      | STATION NAD2 |      |      |
|----------|-------------|------|-------|--------------|------|------|--------------|------|------|
| DATE     | MAX         | MIN  | MEAN  | MAX          | MIN  | MEAN | MAX          | MIN  | MEAN |
| 01/23/96 | 0.1         | 0.1  | 0.10  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 01/24/96 | 0.1         | 0.1  | 0.10  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 01/25/96 | 0.1         | 0.1  | 0.10  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 01/26/96 | 0.1         | 0.0  | 0.09  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 01/27/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 01/28/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 01/29/96 | 0.0         | -0.1 | -0.01 | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 01/30/96 | 0.0         | -0.1 | -0.01 | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 01/31/96 | 0.0         | -0.1 | -0.01 | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/01/96 | 0.0         | -0.1 | -0.02 | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/02/96 | 0.0         | -0.1 | -0.08 | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/03/96 | 0.0         | -0.1 | -0.01 | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/04/96 | 0.0         | -0.1 | -0.06 | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/05/96 | 0.0         | -0.1 | -0.05 | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/06/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.05 | 0.20 | 0.05         | 0.05 | 0.05 |
| 02/07/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.05 | 0.20 | 0.05         | 0.05 | 0.05 |
| 02/08/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.05 | 0.17 | 0.05         | 0.05 | 0.05 |
| 02/09/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/10/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/11/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/12/96 | 0.0         | -0.1 | -0.02 | 0.21         | 0.05 | 0.20 | 0.05         | 0.05 | 0.05 |
| 02/13/96 | 0.0         | -0.1 | -0.06 | 0.21         | 0.05 | 0.14 | 0.05         | 0.05 | 0.05 |
| 02/14/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.05 | 0.07 | 0.05         | 0.05 | 0.05 |
| 02/15/96 | 0.1         | 0.0  | 0.07  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 02/16/96 | 0.1         | 0.1  | 0.10  | 0.21         | 0.05 | 0.08 | 0.05         | 0.05 | 0.05 |
| 02/17/96 | 0.1         | 0.1  | 0.10  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 02/18/96 | 0.1         | 0.0  | 0.08  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 02/19/96 | 0.1         | 0.0  | 0.09  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 02/20/96 | 0.1         | 0.1  | 0.10  | 0.05         | 0.05 | 0.05 | 0.05         | 0.05 | 0.05 |
| 02/21/96 | 0.1         | 0.1  | 0.10  | 0.21         | 0.05 | 0.06 | 0.05         | 0.05 | 0.05 |
| 02/22/96 | 0.2         | 0.1  | 0.10  | 0.21         | 0.05 | 0.12 | 0.05         | 0.05 | 0.05 |
| 02/23/96 | 0.1         | 0.1  | 0.10  | 0.21         | 0.05 | 0.17 | 0.05         | 0.05 | 0.05 |
| 02/24/96 | 0.2         | 0.1  | 0.10  | 0.21         | 0.05 | 0.16 | 0.05         | 0.05 | 0.05 |
| 02/25/96 | 0.1         | 0.1  | 0.10  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/26/96 | 0.1         | 0.0  | 0.08  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/27/96 | 0.1         | 0.0  | 0.04  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/28/96 | 0.1         | 0.0  | 0.01  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 02/29/96 | 0.1         | 0.0  | 0.02  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/01/96 | 0.1         | 0.1  | 0.10  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/02/96 | 0.1         | 0.1  | 0.10  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/03/96 | 0.1         | 0.0  | 0.07  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/04/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/05/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/06/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/07/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/08/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/09/96 | 0.0         | 0.0  | 0.00  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/10/96 | 0.0         | -0.1 | -0.03 | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/11/96 | 0.0         | -0.1 | -0.03 | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/12/96 | 0.1         | 0.0  | 0.07  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/13/96 | 0.1         | -0.1 | 0.05  | 0.21         | 0.21 | 0.21 | 0.05         | 0.05 | 0.05 |
| 03/14/96 | 0.0         | -0.1 | -0.10 | 0.21         | 0.05 | 0.17 | 0.05         | 0.05 | 0.05 |
| 03/15/96 | 0.1         | -0.1 | 0.03  | 0.21         | 0.05 | 0.08 | 0.05         | 0.05 | 0.05 |
| 03/16/96 | 0.1         | 0.1  | 0.10  | 0.21         | 0.05 | 0.06 | 0.05         | 0.05 | 0.05 |
| 03/17/96 | 0.2         | 0.1  | 0.13  | 0.21         | 0.05 | 0.10 | 0.05         | 0.05 | 0.05 |
| 03/18/96 | 0.2         | 0.1  | 0.17  | 0.21         | 0.05 | 0.11 | 0.05         | 0.05 | 0.05 |
| 03/19/96 | 0.2         | 0.1  | 0.19  | 0.21         | 0.05 | 0.10 | 0.05         | 0.05 | 0.05 |

## APPENDIX A GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

|          | STATION MMM |     |      | STATION NAD1 |      |      | STATION NAD2 |      |      |
|----------|-------------|-----|------|--------------|------|------|--------------|------|------|
| DATE     | MAX         | MIN | MEAN | MAX          | MIN  | MEAN | MAX          | MIN  | MEAN |
| 03/20/96 | 0.2         | 0.2 | 0.20 | 0.21         | 0.05 | 0.12 | 0.05         | 0.05 | 0.05 |
| 03/21/96 | 0.2         | 0.2 | 0.20 | 0.21         | 0.05 | 0.11 | 0.21         | 0.05 | 0.06 |
| 03/22/96 | 0.2         | 0.1 | 0.18 | 0.21         | 0.05 | 0.10 | 0.21         | 0.05 | 0.07 |
| 03/23/96 | 0.2         | 0.1 | 0.10 | 0.21         | 0.05 | 0.08 | 0.21         | 0.05 | 0.05 |
| 03/24/96 | 0.1         | 0.1 | 0.10 | 0.21         | 0.05 | 0.09 | 0.21         | 0.05 | 0.06 |
| 03/25/96 | 0.2         | 0.1 | 0.10 | 0.21         | 0.05 | 0.09 | 0.21         | 0.05 | 0.06 |
| 03/26/96 | 0.2         | 0.1 | 0.13 | 0.21         | 0.05 | 0.10 | 0.21         | 0.05 | 0.06 |
| 03/27/96 | 0.1         | 0.1 | 0.10 | 0.21         | 0.05 | 0.10 | 0.21         | 0.05 | 0.08 |
| 03/28/96 | 0.2         | 0.1 | 0.18 | 0.21         | 0.05 | 0.11 | 0.21         | 0.05 | 0.08 |
| 03/29/96 | 0.2         | 0.1 | 0.10 | 0.21         | 0.05 | 0.07 | 0.21         | 0.05 | 0.06 |
| 03/30/96 | 0.1         | 0.1 | 0.10 | 0.21         | 0.05 | 0.09 | 0.21         | 0.05 | 0.06 |
| 03/31/96 | 0.1         | 0.1 | 0.10 |              |      |      |              |      |      |

## APPENDIX A

## GATES CREEK WATER TEMPERATURES (°C) OCTOBER 1 1995 to JULY 10 1996

| DATE     | STATION MMM |     |      | STATION NAD1 |       |       | STATION NAD2 |       |       |
|----------|-------------|-----|------|--------------|-------|-------|--------------|-------|-------|
|          | MAX         | MIN | MEAN | MAX          | MIN   | MEAN  | MAX          | MIN   | MEAN  |
| 05/16/96 | 0.8         | 0.4 | 0.58 | 6.70         | 3.61  | 5.13  | 6.32         | 3.26  | 4.72  |
| 05/17/96 | 0.9         | 0.4 | 0.63 | 6.51         | 3.61  | 5.19  | 6.14         | 3.26  | 4.76  |
| 05/18/96 | 0.7         | 0.1 | 0.45 | 6.51         | 4.68  | 5.57  | 5.95         | 4.14  | 5.04  |
| 05/19/96 | 0.9         | 0.2 | 0.51 | 7.65         | 4.14  | 5.86  | 7.27         | 3.61  | 5.19  |
| 05/20/96 | 1.0         | 0.4 | 0.61 | 6.14         | 4.50  | 5.41  | 5.40         | 3.79  | 4.62  |
| 05/21/96 | 1.5         | 0.4 | 0.86 | 6.70         | 3.96  | 5.49  | 6.14         | 3.43  | 4.79  |
| 05/22/96 | 1.5         | 0.6 | 0.96 | 7.27         | 4.86  | 6.02  | 6.51         | 4.14  | 5.29  |
| 05/23/96 | 1.5         | 0.7 | 1.03 | 8.63         | 5.40  | 6.93  | 7.46         | 4.50  | 5.87  |
| 05/24/96 | 1.4         | 0.6 | 0.94 | 7.65         | 5.95  | 7.00  | 6.32         | 4.68  | 5.61  |
| 05/25/96 | 2.1         | 0.6 | 1.22 | 8.43         | 5.95  | 7.14  | 7.08         | 4.68  | 5.77  |
| 05/26/96 | 1.7         | 0.6 | 1.06 | 7.08         | 5.22  | 6.27  | 6.14         | 4.14  | 5.07  |
| 05/27/96 | 2.2         | 0.6 | 1.29 | 7.46         | 5.04  | 6.35  | 6.70         | 4.14  | 5.44  |
| 05/28/96 | 2.6         | 0.7 | 1.51 | 8.23         | 5.40  | 6.90  | 7.46         | 4.50  | 6.04  |
| 05/29/96 | 2.5         | 0.9 | 1.56 | 8.63         | 6.32  | 7.46  | 7.85         | 5.40  | 6.54  |
| 05/30/96 | 2.5         | 1.0 | 1.66 | 9.23         | 6.51  | 7.97  | 8.04         | 5.40  | 6.80  |
| 05/31/96 | 2.4         | 1.0 | 1.56 | 9.83         | 7.85  | 8.93  | 8.43         | 6.32  | 7.38  |
| 06/01/96 | 2.3         | 0.9 | 1.53 | 10.87        | 8.04  | 9.50  | 8.83         | 6.14  | 7.50  |
| 06/02/96 | 2.3         | 1.2 | 1.65 | 11.08        | 9.03  | 10.10 | 9.03         | 6.89  | 7.92  |
| 06/03/96 | 2.7         | 1.3 | 1.83 | 11.93        | 8.63  | 10.35 | 9.63         | 6.70  | 8.03  |
| 06/04/96 | 2.5         | 1.3 | 1.79 | 11.50        | 10.45 | 10.93 | 9.03         | 7.65  | 8.29  |
| 06/05/96 | 2.8         | 1.2 | 1.98 | 11.50        | 9.43  | 10.30 | 9.63         | 7.27  | 8.34  |
| 06/06/96 | 2.9         | 1.5 | 2.16 | 11.50        | 10.24 | 10.90 | 10.04        | 8.43  | 9.16  |
| 06/07/96 | 3.0         | 1.4 | 2.13 | 11.08        | 9.43  | 10.32 | 9.83         | 8.04  | 8.85  |
| 06/08/96 | 2.8         | 1.5 | 2.11 | 10.04        | 8.83  | 9.59  | 9.03         | 7.85  | 8.45  |
| 06/09/96 | 2.8         | 1.2 | 2.02 | 9.63         | 8.43  | 9.11  | 8.83         | 7.46  | 8.21  |
| 06/10/96 | 3.3         | 1.4 | 2.30 | 10.87        | 8.23  | 9.42  | 10.24        | 7.65  | 8.66  |
| 06/11/96 | 3.2         | 1.6 | 2.36 | 9.83         | 8.23  | 9.09  | 9.23         | 7.46  | 8.41  |
| 06/12/96 | 3.6         | 1.4 | 2.41 | 10.87        | 7.65  | 9.24  | 10.24        | 7.08  | 8.58  |
| 06/13/96 | 3.2         | 1.7 | 2.35 | 10.66        | 8.04  | 9.34  | 10.04        | 7.46  | 8.72  |
| 06/14/96 | 3.4         | 1.7 | 2.52 | 10.45        | 8.23  | 9.35  | 9.83         | 7.65  | 8.77  |
| 06/15/96 | 2.8         | 2.0 | 2.45 | 9.63         | 8.63  | 9.28  | 9.03         | 8.23  | 8.72  |
| 06/16/96 | 3.5         | 1.3 | 2.33 | 10.87        | 7.65  | 9.21  | 10.24        | 7.27  | 8.68  |
| 06/17/96 | 3.6         | 2.0 | 2.84 | 10.87        | 9.03  | 10.02 | 10.24        | 8.43  | 9.37  |
| 06/18/96 | 4.2         | 2.4 | 3.20 | 11.50        | 9.03  | 10.20 | 10.87        | 8.43  | 9.60  |
| 06/19/96 | 4.7         | 2.5 | 3.54 | 12.59        | 9.23  | 11.04 | 11.93        | 8.63  | 10.36 |
| 06/20/96 | 4.8         | 2.8 | 3.77 | 13.03        | 10.45 | 11.87 | 12.37        | 9.63  | 11.12 |
| 06/21/96 | 4.6         | 3.4 | 3.99 | 13.03        | 10.87 | 11.88 | 12.15        | 10.24 | 11.13 |
| 06/22/96 | 5.3         | 3.5 | 4.41 | 12.81        | 10.66 | 11.79 | 11.93        | 10.04 | 11.00 |
| 06/23/96 | 5.6         | 4.3 | 4.82 | 13.25        | 11.72 | 12.47 | 12.59        | 10.87 | 11.64 |
| 06/24/96 | 6.1         | 4.1 | 5.10 | 13.93        | 11.08 | 12.55 | 13.25        | 10.45 | 11.83 |
| 06/25/96 | 5.9         | 3.8 | 5.17 | 14.86        | 10.87 | 12.73 | 14.16        | 10.45 | 12.16 |
| 06/26/96 | 6.5         | 4.8 | 5.61 | 15.10        | 12.15 | 13.60 | 14.63        | 11.72 | 13.05 |
| 06/27/96 | 6.7         | 5.1 | 5.72 | 14.86        | 12.59 | 13.83 | 14.63        | 12.15 | 13.39 |
| 06/28/96 | 6.0         | 4.5 | 5.17 | 14.39        | 12.15 | 13.05 | 13.93        | 11.72 | 12.69 |
| 06/29/96 | 5.6         | 4.5 | 4.98 | 13.48        | 11.72 | 12.60 | 13.25        | 11.50 | 12.32 |
| 06/30/96 | 6.5         | 4.6 | 5.54 | 14.39        | 11.29 | 12.99 | 14.16        | 11.08 | 12.69 |
| 07/01/96 | 6.3         | 4.6 | 5.40 | 14.86        | 10.87 | 12.90 | 14.63        | 10.66 | 12.65 |
| 07/02/96 | 6.5         | 4.4 | 5.53 | 14.86        | 11.08 | 13.13 | 14.63        | 10.87 | 12.86 |
| 07/03/96 | 6.6         | 5.7 | 6.15 | 13.48        | 11.93 | 12.61 | 13.25        | 11.72 | 12.42 |
| 07/04/96 | 6.2         | 4.8 | 5.53 | 12.81        | 11.29 | 12.20 | 12.59        | 11.08 | 11.96 |
| 07/05/96 | 6.6         | 4.8 | 5.69 | 13.48        | 11.29 | 12.36 | 13.25        | 10.87 | 12.14 |
| 07/06/96 | 7.3         | 4.7 | 5.98 | 15.58        | 10.45 | 12.97 | 15.58        | 10.24 | 12.79 |
| 07/07/96 | 8.1         | 5.8 | 7.00 | 16.55        | 11.72 | 14.30 | 16.31        | 11.72 | 14.12 |
| 07/08/96 | 9.0         | 7.3 | 8.08 | 16.80        | 13.71 | 15.33 | 16.55        | 13.48 | 15.16 |
| 07/09/96 | 8.1         | 6.7 | 7.40 |              | 13.71 |       |              | 13.48 |       |
| 07/10/96 | 7.9         | 5.9 | 6.84 |              |       |       |              |       |       |