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STATE OF ILLINOIS

DEPARTMENT OF ENERGY AND NATURAL RESOURCES



***Illinois Benchmark Network
Instream Suspended Sediment Monitoring Program,
Water Year 1986***

by D. Kevin Davie

ILLINOIS STATE WATER SURVEY

CHAMPAIGN

1990

CIRCULAR 171-86



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Abstract: Beginning in Water Year 1981, the Water Survey's suspended sediment monitoring program evolved from the effort to gather data on sediment transport and sedimentation in Illinois waterways. In Water Year 1981, the program consisted of 50 stations throughout the state. However, by Water Year 1983 a series of cuts in funding reduced the number of stations to 18. In 1983, the suspended sediment monitoring program was combined with two other Water Survey monitoring programs under the program name of the Illinois Benchmark Network (IBN). Since that time, the IBN has continued to maintain suspended sediment stations statewide. This report, which presents the suspended sediment data collected during Water Year 1986, is a continuation of the Water Survey's Circular 171 series presenting data collected in the suspended sediment monitoring program. In Water Year 1986, 16 stations were maintained. All the techniques used in the data collection process and the laboratory analyses were based upon those used by the U.S. Geological Survey. All the data for Water Year 1986, including those pertaining to water discharge, sediment concentration, sediment load, and particle size distribution of the suspended sediment samples, are given in the appendices to this report. The appendices also include the statistical parameters for the regression equations relating water discharge and suspended sediment load data for Water Year 1986.

Reference: Davie, D. Kevin. Illinois Benchmark Network Instream Suspended Sediment Monitoring Program, Water Year 1986. Illinois State Water Survey, Champaign, Circular 171-86, 1990.

Indexing Terms: Data collection, Illinois Benchmark Network, particle size distribution, regression equations, rivers, sediment concentrations, streams, suspended sediment load.

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**ILLINOIS BENCHMARK NETWORK
INSTREAM SUSPENDED SEDIMENT MONITORING PROGRAM,
WATER YEAR 1986**

by D. Kevin Davie

INTRODUCTION

Beginning in Water Year 1981, the Illinois State Water Survey's instream suspended sediment monitoring program has provided a means for gathering data on sediment transport and sedimentation in Illinois waterways. In Water Year 1981, the program consisted of 50 stations throughout the state. However, by Water Year 1983, a series of cuts in funding reduced the number of stations to 18. In 1983, the suspended sediment monitoring program was combined with two other Water Survey monitoring programs under the program name of the Illinois Benchmark Network (IBN). Since that time the IBN has continued to maintain suspended sediment stations statewide.

This report presents the suspended sediment data collected during Water Year 1986. This publication is a continuation of the Water Survey's Circular 171 series presenting data collected by the Illinois Benchmark Network's instream suspended sediment monitoring program. Further details regarding the operation and methods of this monitoring program can be found in Water Survey Circular 171-84 (Davie, 1988).

Acknowledgments

This report was prepared as part of the author's regular duties at the Illinois State Water Survey under the administrative guidance of Richard G. Semonin (Chief) and Michael L. Terstriep (Head of the Surface Water Section). The author expresses his sincere thanks to the Illinois District, Water Resources Division, U.S. Geological Survey, which provided all the necessary streamgaging data and water discharge rating tables. Chris Svec, Director of the Project Development, Management and Evaluation Office, College of Technical Careers, Southern Illinois University-Carbondale, supplied support services. The report was reviewed by Nani Bhowmik and edited by Gail Taylor.

DATA COLLECTION AND ANALYSIS

The 16 stations monitored in Water Year 1986 were maintained by regional offices at Batavia (northern region), Peoria (west-central), Champaign (east-central), and Carbondale (southern region). Each station was maintained by an IBN technician, and each location was sampled on a weekly basis by a locally hired observer. Locations of the 16 stations are shown in figure 1, and additional information on the stations is given in table 1.

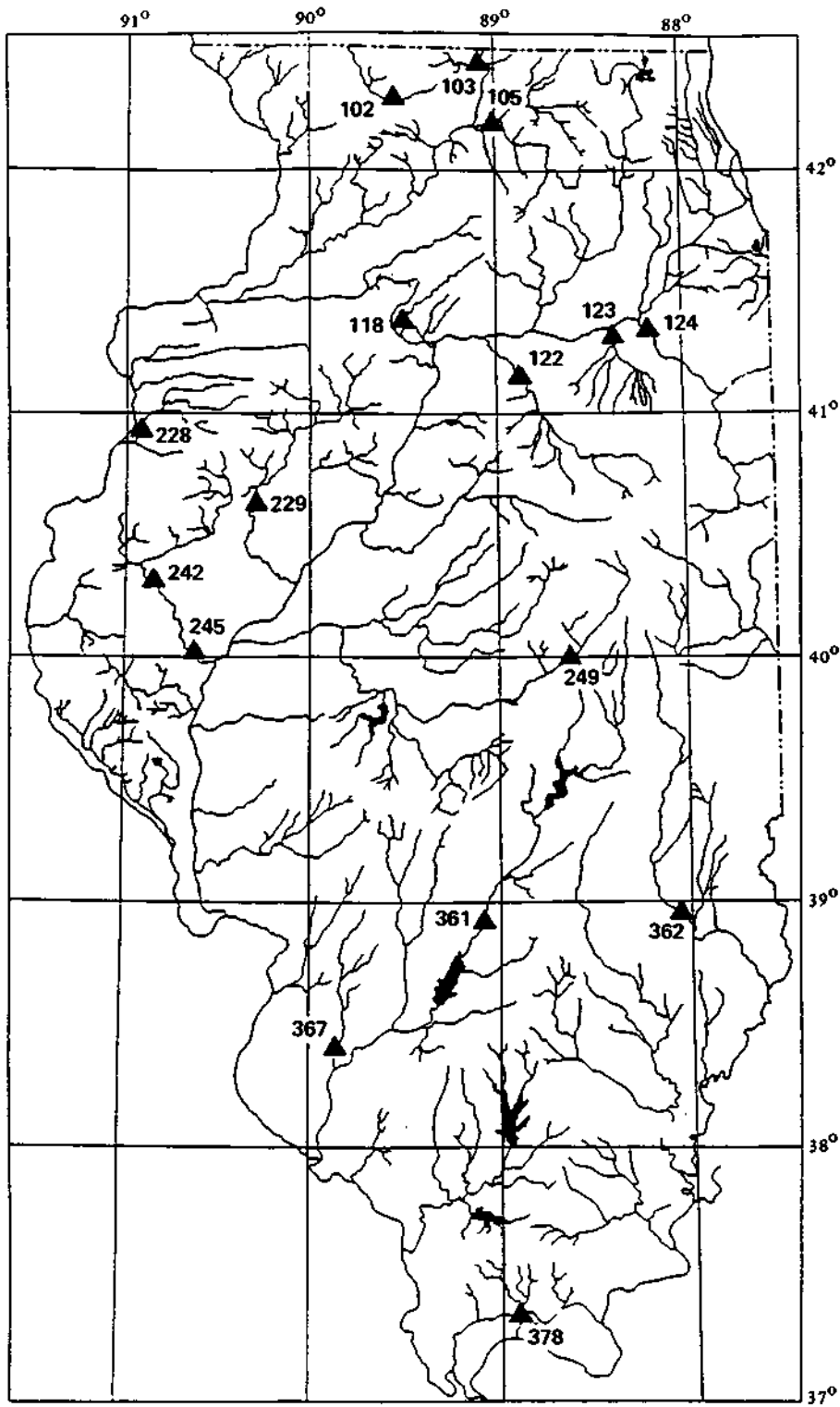


Figure 1. Illinois Benchmark Network suspended sediment stations for Water Year 1986 (October 1985 through September 1986)

Table 1. Illinois Benchmark Network Instream Suspended Sediment Monitoring Program,
Water Year 1986

| <i>Station name</i> | <i>USGS ID</i> | <i>ISWS ID</i> | <i>Drainage area (square miles)</i> | <i>ISWS period of record (water years)</i> | <i>County</i> |
|-------------------------------|----------------|----------------|-------------------------------------|--|---------------|
| <i>Northern District</i> | | | | | |
| Pecatonica R. at Freeport | 05435500 | 102 | 1326 | 1981 to Present | Stephenson |
| Rock R. at Rockton | 05437500 | 103 | 6363 | 1981 to Present | Winnebago |
| Kishwaukee R. near Perryville | 05438600 | 105 | 655 | 1983 to Present | Winnebago |
| Big Bureau Cr. at Princeton | 05556500 | 118 | 196 | 1981 to Present | Bureau |
| Mazon R. near Coal City | 05542000 | 123 | 455 | 1981 to Present | Grundy |
| Kankakee R. near Wilmington | 05527500 | 124 | 5150 | 1983 to Present | Will |
| <i>West-Central District</i> | | | | | |
| Henderson Cr. near Oquawka | 05469000 | 228 | 432 | 1983 to Present | Henderson |
| Spoon R. at London Mills | 05569500 | 229 | 1062 | 1981 to Present | Fulton |
| La Moine R. at Colmar | 05584500 | 242 | 655 | 1981 to Present | McDonough |
| La Moine R. at Ripley | 05585000 | 245 | 1293 | 1983 to Present | Brown |
| <i>East-Central District</i> | | | | | |
| Vermilion R. near Leonore | 05555300 | 122 | 1251 | 1981 to Present | La Salle |
| Sangamon R. at Monticello | 05572000 | 249 | 550 | 1981 to Present | Piatt |
| <i>Southern District</i> | | | | | |
| Kaskaskia R. at Vandalia | 05592500 | 361 | 1940 | 1981 to Present | Fayette |
| Embarras R. at Ste. Marie | 03345500 | 362 | 1516 | 1981 to Present | Jasper |
| Silver Cr. near Freeburg | 05594800 | 367 | 464 | 1981 to Present | St. Clair |
| Cache R. at Forman | 03612000 | 378 | 244 | 1981 to Present | Johnson |

The suspended sediment samples collected at each location were transported to the Inter-Survey Geotechnical Laboratory, Champaign. The laboratory analyzed 817 samples for sediment concentration in pans per million and 43 samples for particle size distribution. All the techniques used in the data collection process and the laboratory analyses were based on those used by the U.S. Geological Survey. Descriptions of these methods are contained in the U.S. Department of the Interior's series of publications entitled *Techniques of Water-Resources Investigations of the United States Geological Survey* (Buchanan and Somers, 1969; Guy, 1969; Guy and Norman, 1970; Porterfield, 1972).

Instrumentation

Three types of suspended sediment samplers were used in this program. All of them have been approved by the Federal Inter-Agency Sedimentation Project of the Inter-Agency Committee on Water Resources, located at the St. Anthony Falls Hydraulic Laboratory in Minneapolis, Minnesota. The three samplers are 1) the depth-integrating suspended sediment wading-type hand sampler, US DH-48; 2) the depth-integrating suspended sediment hand-type sampler, US DH-59; and 3) the point-integrating suspended sediment cable and reel sampler, also used for depth integration, US P-72. More detailed information on these sediment samplers and on the methods used for collecting suspended sediment is provided by Davie (1988).

Data Analysis

After suspended sediment samples were analyzed at the Inter-Survey Geotechnical Laboratory, the data were transferred to a computer format, and a computer printout was sent to each technician. The format allowed the technicians to check the data for errors by making comparisons with the information on their field sheets. The technician's printout was returned to the supervisor, and any errors were corrected on a master copy. After all errors were corrected, the data were designated as "provisional data."

Data were extracted from the provisional data for statistical analysis and were formatted according to date, time, stage, temperature, concentration of suspended sediments, and instantaneous water discharge (Q_w), taken from records supplied by the USGS.

Instantaneous suspended sediment load (Q_s) was computed by the following equation:

$$Q_s = C_s(Q_w)^k \tag{1}$$

where C_s is the suspended sediment sample concentration (ppm), Q_w is the instantaneous water discharge (cfs), and k is a coefficient with the value 0.0027. Instantaneous suspended sediment load (Q_s) was calculated for each sample collected within the water year.

The computed values of Q_s and the values of Q_w for Water Year 1986 for all the stations are given in Appendix A. Appendix B shows the total number of samples collected for analyses of suspended sediment concentration and particle size distribution.

Linear regression equations relating Q_s and Q_w for each station were developed for the data collected in Water Year 1986. The statistical parameters for the equations are given in Appendix C. The general regression equation is:

$$Q_s = a (Q_w)^b \quad (2)$$

where a is a coefficient and b is slope.

Appendix D presents the results of the particle size analyses for the data collected in Water Year 1986. The results are listed as the total number of bottles composited for analysis, the percent of suspended sediment finer than 62.5 microns in size, and the average suspended sediment concentration in parts per million for the respective number of composited samples.

SUMMARY

In Water Year 1986, 16 instream suspended sediment monitoring stations were maintained by the Illinois Benchmark Network (IBN). The samples were collected weekly by locally hired observers and were transferred by IBN technicians to the Inter-Survey Geotechnical Laboratory, Champaign. The laboratory analyzed the samples for sediment concentration in parts per million, as well as for particle size distribution.

Instantaneous values for water discharge (Q_w) and sediment discharge (Q_s) were used to develop an annual regression equation for each suspended sediment station.

All the data, including those pertaining to water discharge (Q_w), suspended sediment load (Q_s), and particle size distribution of the suspended sediment samples, are given in the appendices to this report. The appendices also include the statistical parameters for the regression equations relating water discharge and suspended sediment load data for Water Year 1986.

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Appendix A. Suspended-Sediment Data and Statistical Parameters,
Water Year 1986

Explanation of data set:

| | |
|-------|--|
| Date | Day the sample was taken |
| Time | Time of sample in 24-hour clock |
| Stage | Gage height of stream at time of sampling, feet (ft) |
| Temp | Temperature of water in degrees celsius at time of sampling |
| Cs | Concentration of suspended sediment, milligrams per liter (mg/l) |
| Qw | Instantaneous water discharge, cubic feet per second (cfs) |
| Qs | Instantaneous sediment load, tons/day (t/d) |

(Note: station locations can be found on figure 1,
and additional information on the stations is given in table 1.)

PECATONICA RIVER at FREEPORT

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/01/85 | 1630 | 3.81 | 14 | 146 | 780 | 307 |
| 10/08/85 | 1530 | 3.59 | 12 | 145 | 729 | 285 |
| 10/15/85 | 1530 | 6.62 | 12 | 203 | 1428 | 783 |
| 10/22/85 | 1530 | 5.12 | 13 | 163 | 1082 | 476 |
| 10/29/85 | 1530 | 5.26 | 11 | 141 | 1115 | 424 |
| 11/03/85 | 1000 | 11.32 | 08 | 145 | 2832 | 1109 |
| 11/06/85 | 1320 | 10.08 | 08 | 141 | 2390 | 910 |
| 11/12/85 | 1530 | 7.74 | 04 | 65 | 1684 | 295 |
| 11/19/85 | 1630 | 10.43 | 07 | 152 | 2507 | 1029 |
| 11/29/85 | 1100 | 7.27 | 0 | 106 | 1577 | 451 |
| 01/10/86 | 1200 | 5.70 | 2 | 16 | 1216 | 52 |
| 03/08/86 | 1530 | 12.68 | 2 | 137 | 3608 | 1335 |
| 03/19/86 | 1700 | 12.64 | 3 | 117 | 3572 | 1128 |
| 03/25/86 | 1715 | 13.24 | 8 | 118 | 4246 | 1353 |
| 04/03/86 | 1600 | 9.70 | 11 | 128 | 2265 | 783 |
| 04/10/86 | 1200 | 8.32 | 12 | 192 | 1837 | 952 |
| 04/15/86 | 1545 | 7.98 | 9 | 209 | 1739 | 981 |
| 04/18/86 | 1245 | 7.84 | 10 | 120 | 1707 | 553 |
| 04/23/86 | 1500 | 6.89 | 10 | 95 | 1490 | 382 |
| 04/29/86 | 1430 | 6.51 | 15 | 233 | 1402 | 882 |
| 05/09/86 | 1600 | 5.73 | 16 | 239 | 1223 | 789 |
| 05/14/86 | 1530 | 6.62 | 15 | 265 | 1428 | 1022 |
| 05/19/86 | 1525 | 10.42 | 14 | 120 | 2503 | 811 |
| 05/20/86 | 1500 | 9.90 | 14 | 121 | 2331 | 761 |
| 05/30/86 | 1530 | 6.76 | 18 | 255 | 1460 | 1005 |
| 06/07/86 | 0700 | 5.97 | 16 | 436 | 1278 | 1504 |
| 06/16/86 | 1530 | 6.38 | 18 | 290 | 1373 | 1075 |
| 06/23/86 | 1200 | 5.16 | 22 | 441 | 1092 | 1300 |
| 06/30/86 | 1100 | 5.09 | 19 | 454 | 1076 | 1319 |
| 07/09/86 | 1530 | 5.75 | 22 | 404 | 1228 | 1339 |
| 07/15/86 | 1600 | 4.91 | 23 | 228 | 1034 | 636 |
| 07/23/86 | 1500 | 3.98 | 25 | 199 | 819 | 440 |
| 07/28/86 | 1200 | 4.14 | 24 | 215 | 856 | 497 |
| 08/05/86 | 1200 | 3.60 | 20 | 136 | 731 | 268 |
| 08/15/86 | 1250 | 3.97 | 21 | 152 | 817 | 335 |
| 08/16/86 | 1000 | 3.91 | 19 | 247 | 803 | 535 |
| 08/23/86 | 1000 | 3.51 | 19 | 137 | 710 | 263 |
| 08/30/86 | 0930 | 4.20 | 16 | 146 | 870 | 343 |

PECATONICA RIVER at FREEPORT (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 09/06/86 | 1200 | 3.96 | 15 | 139 | 814 | 305 |
| 09/11/86 | 1500 | 5.78 | 16 | 298 | 1235 | 994 |
| 09/15/86 | 1710 | 5.13 | 17 | 216 | 1085 | 633 |
| 09/20/86 | 1230 | 4.24 | 15 | 261 | 879 | 619 |
| 09/25/86 | 0600 | 11.39 | 17 | 1349 | 2859 | 10413 |

ROCK RIVER at ROCKTON

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/03/85 | 0925 | 3.99 | 13 | 24 | 3610 | 234 |
| 10/10/85 | 1135 | 4.73 | 12 | 36 | 4793 | 466 |
| 10/17/85 | 1515 | 5.31 | 14 | 56 | 5784 | 874 |
| 10/24/85 | 1000 | 5.49 | 14 | 70 | 6103 | 1153 |
| 11/01/85 | 0845 | 5.79 | 12 | 48 | 6643 | 861 |
| 11/07/85 | 1330 | 8.20 | 09 | 64 | 11420 | 1973 |
| 11/08/85 | 1430 | 8.00 | 07 | 68 | 11000 | 2020 |
| 11/15/85 | 0800 | 7.73 | 06 | 30 | 10430 | 845 |
| 11/21/85 | 1430 | 8.80 | 04 | 70 | 12720 | 2404 |
| 11/27/85 | 1430 | 8.06 | 03 | 67 | 11120 | 2012 |
| 12/05/85 | 1415 | 8.02 | 01 | 64 | 11040 | 1908 |
| 12/12/85 | 1500 | 6.79 | 2 | 25 | 8537 | 576 |
| 01/23/86 | 0810 | 5.76 | 1 | 25 | 6589 | 445 |
| 01/30/86 | 1145 | 6.07 | 0 | 12 | 7160 | 232 |
| 02/13/86 | 1030 | 6.40 | 0 | 14 | 7782 | 294 |
| 02/27/86 | 1145 | 5.22 | 2 | 28 | 5627 | 425 |
| 03/07/86 | 1345 | 5.43 | 0 | 73 | 5996 | 1182 |
| 03/10/86 | 1400 | 8.23 | 2 | 228 | 11490 | 7073 |
| 03/13/86 | 0825 | 8.81 | 2 | 64 | 12740 | 2201 |
| 03/20/86 | 1500 | 10.27 | 3 | 35 | 16110 | 1522 |
| 03/27/86 | 1450 | 10.42 | 6 | 34 | 16470 | 1512 |
| 04/03/86 | 0940 | 9.56 | 10 | 64 | 14440 | 2495 |
| 04/10/86 | 1510 | 8.22 | 12 | 86 | 11460 | 2661 |
| 04/17/86 | 1330 | 7.37 | 9 | 50 | 9694 | 1309 |
| 04/22/86 | 1245 | 6.75 | 10 | 87 | 8458 | 1987 |
| 04/24/86 | 1440 | 6.45 | 13 | 68 | 7878 | 1446 |
| 05/01/86 | 1100 | 6.11 | 15 | 81 | 7235 | 1582 |
| 05/10/86 | 0700 | 5.28 | 16 | 77 | 5732 | 1192 |
| 05/16/86 | 1015 | 5.37 | 16 | 72 | 5890 | 1145 |
| 05/21/86 | 1300 | 6.51 | 15 | 99 | 7993 | 2136 |
| 05/22/86 | 1010 | 6.45 | 15 | 120 | 7878 | 2552 |
| 05/30/86 | 1445 | 5.41 | 20 | 106 | 5961 | 1706 |
| 06/05/86 | 0930 | 4.62 | 18 | 147 | 4611 | 1830 |
| 06/12/86 | 0930 | 4.05 | 19 | 224 | 3702 | 2239 |
| 06/20/86 | 1330 | 4.21 | 23 | 249 | 3951 | 2656 |
| 06/26/86 | 1400 | 4.95 | 24 | 282 | 5163 | 3931 |
| 07/02/86 | 1500 | 4.19 | 22 | 140 | 3920 | 1482 |
| 07/10/86 | 1100 | 4.66 | 22 | 136 | 4677 | 1717 |

ROCK RIVER at ROCKTON (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 07/17/86 | 1400 | 4.31 | 27 | 121 | 4110 | 1343 |
| 07/23/86 | 1315 | 4.63 | 28 | 80 | 4628 | 1000 |
| 07/24/86 | 1400 | 5.00 | 27 | 49 | 5248 | 694 |
| 07/31/86 | 1330 | 4.43 | 25 | 48 | 4302 | 557 |
| 08/07/86 | 1500 | 4.05 | 22 | 65 | 3702 | 650 |
| 08/14/86 | 1030 | 4.11 | 20 | 42 | 3795 | 430 |
| 08/21/86 | 1500 | 3.81 | 23 | 59 | 3337 | 532 |
| 08/28/86 | 1330 | 3.76 | 18 | 32 | 3262 | 282 |
| 09/04/86 | 1430 | 3.96 | 23 | 83 | 3564 | 799 |
| 09/11/86 | 1500 | 4.46 | 18 | 50 | 4350 | 587 |
| 09/12/86 | 1500 | 5.04 | 20 | 61 | 5316 | 875 |
| 09/18/86 | 1315 | 5.74 | 15 | 58 | 6552 | 1026 |
| 09/26/86 | 1330 | 9.07 | 20 | 196 | 13330 | 7054 |

KISHWAUKEE RIVER near PERRYVILLE

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/03/85 | 1700 | 5.14 | 15 | 73 | 140 | 28 |
| 10/15/85 | 1340 | 6.17 | 24 | 119 | 608 | 195 |
| 10/23/85 | 0925 | 6.80 | 23 | 152 | 990 | 406 |
| 11/01/85 | 1300 | 7.36 | 11 | 151 | 1405 | 573 |
| 11/06/85 | 1630 | 8.35 | 09 | 165 | 2251 | 1003 |
| 11/11/85 | 1415 | 8.97 | 09 | | 2836 | |
| 11/23/85 | 0900 | 9.77 | 03 | 89 | 3622 | 870 |
| 11/26/85 | 1010 | 7.90 | 03 | 71 | 1851 | 355 |
| 12/03/85 | 1215 | 10.37 | 0 | 49 | 4227 | 559 |
| 12/12/85 | 1630 | 7.16 | 0 | 82 | 1246 | 276 |
| 12/23/85 | 1005 | 8.46 | 01 | 55 | 2353 | 349 |
| 12/26/85 | 1610 | 7.65 | 02 | 67 | 1641 | 297 |
| 01/02/86 | 1100 | 7.15 | 2 | 36 | 1239 | 120 |
| 01/10/86 | 0950 | 7.10 | 1 | 28 | 1200 | 91 |
| 01/17/86 | 1530 | 6.94 | 2 | 31 | 1084 | 91 |
| 01/23/86 | 1625 | 7.40 | 2 | 35 | 1437 | 136 |
| 01/28/86 | 1100 | 8.17 | 1 | 18 | 2087 | 101 |
| 02/07/86 | 1110 | 9.26 | 1 | 62 | 3117 | 522 |
| 02/14/86 | 1000 | 8.06 | 0 | 16 | 1990 | 86 |
| 02/22/86 | 1420 | 7.39 | 1 | 29 | 1429 | 112 |
| 02/28/86 | 1240 | 6.03 | 2 | 29 | 532 | 42 |
| 03/10/86 | 1720 | 11.86 | 2 | 265 | 5760 | 4121 |
| 03/21/86 | 1430 | 7.77 | 4 | 37 | 1741 | 174 |
| 03/26/86 | 1030 | 7.04 | 11 | 108 | 1155 | 337 |
| 04/03/86 | 1330 | 6.50 | 11 | 39 | 800 | 84 |
| 04/12/86 | 1015 | 6.15 | 10 | 51 | 597 | 82 |
| 04/18/86 | 1815 | 6.15 | 13 | 44 | 597 | 71 |
| 04/24/86 | 1200 | 5.98 | 15 | 42 | 505 | 57 |
| 04/30/86 | 1140 | 6.14 | 15 | 54 | 591 | 86 |
| 05/08/86 | 1440 | 5.86 | 20 | 46 | 444 | 55 |
| 05/15/86 | 1300 | 5.95 | 21 | 42 | 490 | 56 |
| 05/19/86 | 1250 | 10.89 | - | 128 | 4751 | 1642 |
| 05/30/86 | 1300 | 6.98 | 20 | 116 | 1111 | 348 |
| 06/06/86 | 0745 | 6.51 | 15 | 94 | 806 | 205 |
| 06/13/86 | 1030 | 6.24 | 18 | 53 | 647 | 93 |
| 06/16/86 | 1515 | 6.37 | 19 | 53 | 722 | 103 |
| 06/25/86 | 1230 | 5.84 | 20 | 30 | 434 | 35 |
| 06/30/86 | 1300 | 6.03 | 20 | 46 | 532 | 66 |

KISHWAUKEE RIVER near PERRYVILLE (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 07/08/86 | 1600 | 6.64 | 24 | 108 | 887 | 259 |
| 07/16/86 | 1030 | 6.59 | 25 | 131 | 856 | 303 |
| 07/23/86 | 1535 | 5.92 | 27 | 37 | 474 | 47 |
| 08/01/86 | 1500 | 5.62 | 26 | 25 | 330 | 22 |
| 08/07/86 | 1400 | 5.62 | 21 | 82 | 330 | 73 |
| 08/15/86 | 1000 | 5.51 | 21 | 76 | 282 | 58 |
| 08/22/86 | 1610 | 5.59 | 24 | 76 | 317 | 65 |
| 08/28/86 | 1110 | 5.37 | 16 | 131 | 225 | 80 |
| 09/04/86 | 1445 | 5.20 | 24 | 60 | 161 | 26 |
| 09/12/86 | 1745 | 5.40 | 22 | 74 | 236 | 47 |
| 09/19/86 | 1615 | 5.26 | 16 | 41 | 183 | 20 |
| 09/25/86 | 1730 | 9.05 | 20 | 260 | 2913 | 2045 |
| 09/30/86 | 1615 | 10.31 | 17 | 86 | 4166 | 967 |

BIG BUREAU CREEK at PRINCETON

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/01/85 | 1630 | 1.99 | 16 | 25 | 30 | 2 |
| 10/15/85 | 1630 | 2.40 | 18 | 19 | 69 | 3 |
| 10/22/85 | 1700 | 2.53 | 17 | 87 | 86 | 20 |
| 10/29/85 | 1630 | 2.44 | 22 | 68 | 74 | 14 |
| 11/05/85 | 1700 | 3.24 | 08 | 129 | 226 | 79 |
| 11/12/85 | 1630 | 3.74 | 09 | 167 | 385 | 174 |
| 11/14/85 | 1515 | 4.15 | 09 | 225 | 537 | 326 |
| 11/19/85 | 1630 | 6.35 | 13 | 4258 | 1788 | 20556 |
| 12/04/85 | 1630 | 3.75 | 03 | 153 | 388 | 160 |
| 12/11/85 | 1630 | 3.14 | 3 | 105 | 201 | 57 |
| 01/22/86 | 1630 | 2.93 | 02 | 93 | 154 | 39 |
| 02/20/86 | 1115 | 4.23 | 01 | 1404 | 570 | 2161 |
| 02/27/86 | 1300 | 2.46 | 02 | 47 | 76 | 10 |
| 03/23/86 | 1730 | 2.63 | 6 | 85 | 101 | 23 |
| 04/05/86 | 0700 | 2.41 | 8 | 27 | 70 | 5 |
| 04/17/86 | 1500 | 2.29 | 15 | 28 | 56 | 4 |
| 04/26/86 | 0700 | 2.17 | 11 | 31 | 45 | 4 |
| 05/03/86 | 0700 | 2.15 | 21 | 11 | 43 | 1 |
| 05/09/86 | 1650 | 2.08 | 21 | 9 | 37 | 1 |
| 05/14/86 | 1420 | 3.31 | 22 | 3602 | 244 | 2373 |
| 05/25/86 | 0800 | 3.00 | 8 | 107 | 169 | 49 |
| 06/14/86 | 0630 | 2.52 | 10 | 89 | 84 | 20 |
| 06/24/86 | 0700 | 2.52 | 11 | 116 | 84 | 26 |
| 06/30/86 | 1630 | 3.51 | 10 | 1014 | 307 | 840 |
| 07/13/86 | 0700 | 3.61 | 11 | 262 | 343 | 243 |
| 07/27/86 | 0800 | 2.31 | 15 | 35 | 59 | 6 |
| 08/02/86 | 0730 | 2.17 | 12 | 35 | 45 | 4 |
| 08/08/86 | 1330 | 2.11 | 27 | 79 | 39 | 8 |
| 08/09/86 | 0630 | 2.07 | 17 | 115 | 36 | 11 |
| 08/16/86 | 0800 | 1.95 | 22 | 131 | 27 | 9 |
| 08/23/86 | 0800 | 1.85 | 23 | 69 | 21 | 4 |
| 08/29/86 | 0730 | 1.85 | 16 | 74 | 21 | 4 |
| 09/06/86 | 0730 | 1.81 | 16 | 60 | 19 | 3 |
| 09/14/86 | 1000 | 1.97 | 18 | 112 | 29 | 9 |
| 09/18/86 | 1500 | 1.84 | 20 | 49 | 20 | 3 |
| 09/20/86 | 0930 | 1.86 | 19 | 115 | 22 | 7 |
| 09/27/86 | 0800 | 2.75 | 22 | 559 | 120 | 181 |

VERMILION RIVER near LEONORE

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/03/85 | 1200 | 3.08 | 14 | 17 | 51 | 2 |
| 10/12/85 | 1400 | 3.86 | 17 | 15 | 219 | 9 |
| 10/15/85 | 1200 | 4.01 | 15 | 14 | 265 | 10 |
| 10/16/85 | 1130 | 4.06 | 14 | 11 | 282 | 8 |
| 11/02/85 | 1500 | 10.70 | 11 | 344 | 4699 | 4364 |
| 11/09/85 | 1200 | 6.05 | 11 | 173 | 1275 | 596 |
| 11/12/85 | 1230 | 10.21 | 9 | 147 | 4252 | 1688 |
| 11/14/85 | 1000 | 10.19 | 09 | 191 | 4235 | 2184 |
| 11/21/85 | 1200 | 18.20 | 07 | 256 | 14290 | 9877 |
| 11/26/85 | 1000 | 7.75 | 07 | 246 | 2302 | 1529 |
| 12/01/85 | 1300 | 8.02 | 06 | 183 | 2497 | 1234 |
| 12/14/85 | 1000 | 7.81 | 07 | 101 | 2344 | 639 |
| 01/25/86 | 1000 | 5.25 | 0 | 9 | 820 | 20 |
| 02/04/86 | 1100 | 6.01 | 0 | 284 | 1255 | 962 |
| 02/06/86 | 1000 | 5.23 | 01 | 423 | 809 | 924 |
| 02/20/86 | 1030 | 13.48 | 0 | 605 | 7734 | 12633 |
| 02/25/86 | 1000 | 6.48 | 0 | 27 | 1502 | 109 |
| 03/08/86 | 0930 | 9.16 | 0 | 180 | 3374 | 1640 |
| 03/12/86 | 1200 | 8.89 | 2 | 299 | 3166 | 2556 |
| 03/15/86 | 1100 | 8.16 | 7 | 87 | 2603 | 611 |
| 03/22/86 | 1700 | 6.92 | 8 | 58 | 1757 | 275 |
| 03/29/86 | 1400 | 4.58 | 16 | 62 | 501 | 84 |
| 04/05/86 | 0900 | 5.58 | 15 | 18 | 1012 | 49 |
| 04/12/86 | 1000 | 5.12 | 12 | 46 | 749 | 93 |
| 04/19/86 | 1000 | 5.09 | 14 | 13 | 733 | 26 |
| 04/20/86 | 0900 | 5.09 | 14 | 11 | 733 | 22 |
| 04/22/86 | 1300 | 5.09 | 9 | 38 | 733 | 75 |
| 04/25/86 | 1000 | 3.84 | 20 | 139 | 214 | 80 |
| 05/02/86 | 1200 | 13.69 | 19 | 114 | 7999 | 2462 |
| 05/07/86 | 1500 | 6.47 | 18 | 144 | 1496 | 582 |
| 05/14/86 | 1800 | 7.24 | 20 | 129 | 1957 | 682 |
| 05/20/86 | 1430 | 7.13 | 17 | 107 | 1886 | 545 |
| 05/30/86 | 0930 | 5.73 | 20 | 104 | 1093 | 307 |
| 06/03/86 | 1400 | 4.75 | 23 | 78 | 571 | 120 |
| 06/09/86 | 1145 | 6.74 | 19 | 182 | 1650 | 811 |
| 06/12/86 | 1200 | 8.32 | - | 74 | 2726 | 545 |
| 06/20/86 | 1100 | 4.21 | - | 133 | 338 | 121 |
| 06/27/86 | 1600 | 5.14 | - | 133 | 760 | 273 |

VERMILION RIVER near LEONORE (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 06/29/86 | 1600 | 4.10 | - | 138 | 296 | 110 |
| 07/06/86 | 1200 | 6.27 | - | 336 | 1388 | 1259 |
| 07/11/86 | 1800 | 9.81 | - | 760 | 3905 | 8013 |
| 07/19/86 | 1200 | 5.17 | 28 | 148 | 776 | 310 |
| 07/21/86 | 2000 | 4.25 | 27 | 166 | 354 | 159 |
| 08/02/86 | 0930 | 3.33 | 24 | 66 | 96 | 17 |
| 08/05/86 | 1830 | 3.16 | 21 | 96 | 63 | 16 |
| 08/11/86 | 1430 | 3.16 | 22 | 61 | 63 | 10 |
| 08/12/86 | 1000 | 2.99 | 24 | 110 | 38 | 11 |
| 08/19/86 | 1100 | 2.85 | 22 | 99 | 23 | 6 |
| 08/25/86 | 0900 | 2.80 | 22 | 170 | 19 | 9 |
| 09/06/86 | 1000 | 2.52 | 18 | 77 | 8 | 2 |
| 09/13/86 | 1000 | 2.80 | 19 | 106 | 19 | 5 |
| 09/14/86 | 0900 | 2.80 | 19 | 163 | 19 | 8 |
| 09/23/86 | 0900 | 3.44 | 19 | 18 | 120 | 6 |
| 09/30/86 | 1100 | 4.87 | 20 | 144 | 625 | 243 |

MAZON RIVER near COAL CITY

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/03/85 | 1230 | 0.94 | 14 | 57 | 8 | 1 |
| 10/11/85 | 1000 | 1.29 | 12 | 46 | 33 | 4 |
| 10/17/85 | 1300 | 1.69 | 17 | 106 | 88 | 25 |
| 10/28/85 | 1712 | 1.84 | 12 | 132 | 118 | 42 |
| 11/02/85 | 1100 | 5.52 | 11 | 486 | 1914 | 2512 |
| 11/07/85 | 1340 | 3.95 | 11 | 100 | 962 | 260 |
| 11/12/85 | 1600 | 5.12 | 10 | 135 | 1631 | 594 |
| 11/13/85 | 1230 | 5.70 | 11 | 166 | 2043 | 916 |
| 11/19/85 | 1245 | 15.65 | 15 | 688 | 14710 | 27325 |
| 11/27/85 | 1500 | 3.92 | 6 | 105 | 949 | 269 |
| 12/06/85 | 1545 | 4.01 | 2 | 92 | 990 | 246 |
| 12/20/85 | 1100 | 4.17 | 0 | 135 | 1072 | 391 |
| 01/16/86 | 1130 | 1.71 | 0 | 71 | 92 | 17 |
| 02/07/86 | 1450 | 2.60 | 2 | 96 | 335 | 87 |
| 02/20/86 | 1530 | 7.02 | 2 | 524 | 3078 | 4355 |
| 02/24/86 | 1200 | 2.42 | 2 | 30 | 273 | 22 |
| 03/11/86 | 1200 | 5.30 | 5 | 557 | 1756 | 2641 |
| 03/15/86 | 1630 | 3.78 | 8 | 39 | 880 | 93 |
| 03/23/86 | 1515 | 2.90 | 9 | 61 | 455 | 75 |
| 03/30/86 | 1715 | 2.12 | 17 | 24 | 185 | 12 |
| 04/20/86 | 1420 | 1.63 | 14 | 8 | 78 | 2 |
| 04/23/86 | 1300 | 1.57 | 11 | 4 | 68 | 1 |
| 05/09/86 | 1140 | 1.99 | 18 | 93 | 152 | 38 |
| 05/16/86 | 1500 | 2.58 | 18 | 154 | 328 | 136 |
| 05/20/86 | 1300 | 2.56 | 14 | 121 | 321 | 105 |
| 05/30/86 | 1200 | 3.12 | 21 | 137 | 555 | 205 |
| 06/04/86 | 1843 | 2.20 | 21 | 155 | 207 | 87 |
| 06/12/86 | 1345 | 2.93 | 19 | 197 | 468 | 249 |
| 06/20/86 | 1240 | 2.03 | 26 | 186 | 162 | 81 |
| 06/28/86 | 1730 | 2.09 | 26 | 134 | 177 | 64 |
| 07/02/86 | 0830 | 6.29 | 22 | 570 | 2486 | 3826 |
| 07/12/86 | 1850 | 7.53 | 21 | 233 | 3524 | 2217 |
| 07/19/86 | 1730 | 2.30 | 26 | 165 | 236 | 105 |
| 07/24/86 | 1330 | 1.71 | 28 | 77 | 92 | 19 |
| 07/26/86 | 2025 | 1.65 | 24 | 46 | 81 | 10 |
| 08/01/86 | 1835 | 1.25 | 25 | 17 | 29 | 1 |

MAZON RIVER near COAL CITY (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 08/09/86 | 1520 | 1.25 | 25 | 31 | 29 | 2 |
| 08/16/86 | 1730 | 1.05 | 26 | 24 | 13 | 1 |
| 08/30/86 | 1900 | 0.87 | 20 | 31 | 6 | 0 |
| 09/05/86 | 1400 | 0.86 | 24 | 35 | 5 | 0 |
| 09/06/86 | 1530 | 0.80 | 21 | 48 | 4 | 0 |
| 09/08/86 | 1500 | 0.83 | 19 | 29 | 4 | 0 |
| 09/14/86 | 1900 | 1.04 | 19 | 36 | 12 | 1 |
| 09/21/86 | 1735 | 1.51 | 20 | 38 | 59 | 6 |
| 09/28/86 | 1330 | 1.64 | 22 | 61 | 80 | 13 |
| 09/30/86 | 1145 | 2.65 | 20 | 61 | 354 | 58 |

KANKAKEE RIVER near WILMINGTON

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/06/85 | 1130 | 1.06 | 13 | 51 | 1205 | 166 |
| 10/13/85 | 1640 | 0.99 | 18 | 77 | 1051 | 218 |
| 10/19/85 | 1445 | 1.51 | 16 | 65 | 2449 | 430 |
| 10/27/85 | 1355 | 1.84 | 16 | 25 | 3639 | 246 |
| 11/04/85 | 1555 | 2.00 | 10 | 97 | 4300 | 1126 |
| 11/10/85 | 1405 | 2.15 | 08 | 74 | 4914 | 982 |
| 11/12/85 | 1300 | 3.10 | 09 | 147 | 9654 | 3832 |
| 11/18/85 | 1150 | 4.80 | 10 | 163 | 21630 | 9519 |
| 11/24/85 | 1110 | 5.92 | 5 | 137 | 31850 | 11781 |
| 12/01/85 | 1223 | 4.50 | 7 | 63 | 19200 | 3266 |
| 12/08/85 | 1540 | 3.00 | 4 | 64 | 9087 | 1570 |
| 12/14/85 | 1530 | 4.73 | 0 | 185 | 21050 | 10514 |
| 02/24/86 | 1300 | 3.49 | 3 | 33 | 12010 | 1070 |
| 02/25/86 | 1355 | 3.06 | 3 | 25 | 9425 | 636 |
| 03/08/86 | 1420 | 3.47 | 1 | 85 | 11890 | 2729 |
| 03/15/86 | 1445 | 3.33 | 7 | 68 | 11020 | 2023 |
| 03/22/86 | 1450 | 3.14 | 7 | 49 | 9885 | 1308 |
| 03/29/86 | 1800 | 2.46 | 16 | 45 | 6300 | 765 |
| 04/06/86 | 1740 | 2.11 | 17 | 32 | 4747 | 410 |
| 04/13/86 | 1705 | 1.98 | 15 | 26 | 4214 | 296 |
| 04/20/86 | 1815 | 1.97 | 14 | 29 | 4172 | 327 |
| 04/23/86 | 1500 | 1.95 | 13 | 23 | 4087 | 254 |
| 04/27/86 | 1651 | 1.82 | 24 | 19 | 3560 | 183 |
| 05/04/86 | 1555 | 4.32 | 17 | 290 | 17810 | 13945 |
| 05/11/86 | 1410 | 2.50 | 19 | 200 | 6491 | 3505 |
| 05/18/86 | 1550 | 2.79 | 18 | 270 | 7948 | 5794 |
| 05/20/86 | 1450 | 2.99 | 16 | 240 | 9031 | 5852 |
| 05/25/86 | 1515 | 2.17 | 21 | 157 | 4999 | 2119 |
| 06/01/86 | 1400 | 3.75 | 24 | 726 | 13720 | 26894 |
| 06/08/86 | 1745 | 4.25 | 23 | 428 | 17280 | 19969 |
| 06/16/86 | 1555 | 3.40 | 23 | 112 | 11450 | 3462 |
| 06/22/86 | 1815 | 2.52 | 27 | 207 | 6587 | 3681 |
| 06/30/86 | 1653 | 2.33 | 23 | 154 | 5700 | 2370 |
| 07/07/86 | 1645 | 2.81 | 28 | 108 | 8053 | 2348 |
| 07/14/86 | 1712 | 3.87 | 26 | 237 | 14540 | 9304 |
| 07/21/86 | 1606 | 1.94 | 29 | 133 | 4045 | 1453 |
| 07/22/86 | 1500 | 1.81 | 30 | 69 | 3521 | 656 |
| 07/29/86 | 0954 | 1.51 | 30 | 45 | 2449 | 297 |

KANKAKEE RIVER near WILMINGTON (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 08/06/86 | 1320 | 1.52 | 23 | 23 | 2482 | 154 |
| 08/13/86 | 1639 | 1.20 | 22 | 44 | 1545 | 183 |
| 08/20/86 | 1354 | 1.09 | 26 | 37 | 1275 | 127 |
| 08/28/86 | 1119 | 1.02 | 19 | 44 | 1116 | 133 |
| 09/03/86 | 1634 | 0.99 | 26 | 51 | 1051 | 145 |
| 09/08/86 | 1320 | 0.91 | 21 | 50 | 888 | 120 |
| 09/11/86 | 1330 | 0.97 | 20 | 76 | 1009 | 207 |
| 09/18/86 | 1142 | 0.95 | 28 | 94 | 968 | 246 |
| 09/26/86 | 1107 | 1.37 | 22 | 63 | 2015 | 343 |

HENDERSON CREEK near OQUAWKA

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/06/85 | 1800 | 12.26 | 13 | 88 | 42 | 10 |
| 10/08/85 | 1121 | 12.03 | 13 | 74 | 26 | 5 |
| 10/14/85 | 1620 | 12.14 | 14 | 97 | 34 | 9 |
| 10/20/85 | 1300 | 14.05 | 14 | 586 | 209 | 331 |
| 10/25/85 | 1730 | 12.76 | 12 | 431 | 82 | 95 |
| 11/01/85 | 0810 | 14.50 | 10 | 638 | 258 | 444 |
| 11/10/85 | 0845 | 15.42 | 06 | 731 | 367 | 724 |
| 11/17/85 | 0900 | 17.72 | 06 | 273 | 674 | 497 |
| 11/19/85 | 1100 | 23.61 | 11 | 1248 | 2421 | 8158 |
| 11/24/85 | 1600 | 16.65 | 03 | 227 | 526 | 322 |
| 11/29/85 | 1200 | 15.45 | 0 | 183 | 371 | 183 |
| 12/06/85 | 1145 | 16.55 | 0 | 190 | 513 | 263 |
| 01/04/86 | 1600 | 14.10 | 3 | 44 | 214 | 25 |
| 01/22/86 | 1645 | 15.78 | 0 | 191 | 412 | 212 |
| 01/27/86 | 1645 | 14.53 | 1 | 23 | 262 | 16 |
| 02/04/86 | 1525 | 23.25 | 1 | 2334 | 1780 | 11217 |
| 02/11/86 | 1545 | 14.34 | 0 | 162 | 240 | 105 |
| 02/20/86 | 1415 | 24.77 | 0 | 2103 | 3376 | 19169 |
| 02/26/86 | 1520 | 14.28 | 2 | 72 | 234 | 45 |
| 03/28/86 | 1630 | 14.71 | 12 | 177 | 282 | 135 |
| 03/04/86 | 1030 | 17.05 | 03 | 459 | 580 | 719 |
| 03/05/86 | 1500 | 16.64 | 2 | 441 | 525 | 625 |
| 03/14/86 | 1630 | 16.69 | 6 | 419 | 531 | 601 |
| 03/20/86 | 1540 | 16.10 | 4 | 178 | 453 | 218 |
| 04/04/86 | 1745 | 14.19 | 15 | 121 | 224 | 73 |
| 04/11/86 | 1730 | 13.84 | 16 | 95 | 186 | 48 |
| 04/18/86 | 1730 | 13.65 | 13 | 121 | 167 | 55 |
| 04/24/86 | 1645 | 13.45 | 19 | 136 | 147 | 54 |
| 04/30/86 | 1335 | 13.34 | 16 | 46 | 136 | 17 |
| 05/02/86 | 1630 | 13.54 | 16 | 56 | 156 | 24 |
| 05/09/86 | 1715 | 13.23 | 21 | 96 | 125 | 32 |
| 05/16/86 | 1730 | 13.08 | 19 | 95 | 111 | 28 |
| 05/23/86 | 1630 | 15.36 | 21 | 286 | 360 | 278 |
| 05/30/86 | 1745 | 14.62 | 22 | 272 | 272 | 200 |
| 06/06/86 | 0900 | 16.37 | 18 | 1001 | 489 | 1322 |
| 06/13/86 | 1930 | 14.17 | 23 | 254 | 222 | 152 |
| 06/17/86 | 1015 | 13.88 | 21 | 184 | 191 | 95 |
| 06/20/86 | 1900 | 13.57 | 27 | 201 | 159 | 86 |

HENDERSON CREEK near OQUAWKA (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 06/27/86 | 1930 | 13.25 | 25 | 164 | 127 | 56 |
| 07/06/86 | 1930 | 13.38 | 28 | 155 | 140 | 59 |
| 07/13/86 | 0830 | 16.41 | 25 | 648 | 494 | 864 |
| 07/20/86 | 1715 | 13.47 | 28 | 129 | 149 | 52 |
| 07/25/86 | 1715 | 13.20 | 28 | 119 | 122 | 39 |
| 07/31/86 | 1045 | 14.90 | 24 | 1840 | 305 | 1515 |
| 08/01/86 | 1500 | 18.75 | 24 | 1671 | 858 | 3871 |
| 08/08/86 | 1645 | 17.02 | 21 | 2023 | 576 | 3146 |
| 08/15/86 | 1840 | 13.19 | 23 | 65 | 121 | 21 |
| 08/22/86 | 1830 | 12.64 | 26 | 21 | 72 | 4 |
| 08/29/86 | 1900 | 12.47 | 22 | 30 | 58 | 5 |
| 09/07/86 | 1830 | 12.25 | 18 | 29 | 42 | 3 |
| 09/14/86 | 1900 | 12.50 | 20 | 73 | 61 | 12 |
| 09/17/86 | 1045 | 12.43 | 15 | 43 | 55 | 6 |
| 09/19/86 | 1715 | 13.46 | 18 | 992 | 148 | 396 |
| 09/28/86 | 1720 | 16.12 | 21 | 288 | 456 | 355 |

SPOON RIVER at LONDON MILLS

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/08/85 | 1500 | 2.33 | 14 | | 75 | |
| 10/14/85 | 1200 | 2.62 | 14 | 314 | 117 | 99 |
| 10/19/85 | 1340 | 3.80 | 15 | 218 | 339 | 199 |
| 10/27/85 | 1600 | 2.87 | 14 | 169 | 157 | 72 |
| 11/10/85 | 1600 | 8.61 | 6 | 1150 | 1952 | 6061 |
| 11/13/85 | 1045 | 6.67 | 9 | 788 | 1181 | 2513 |
| 11/16/85 | 1645 | 11.42 | 7 | 464 | 3450 | 4322 |
| 11/19/85 | 1430 | 19.34 | 12 | 888 | 11720 | 28100 |
| 11/24/85 | 1700 | 9.00 | 3 | 259 | 2142 | 1498 |
| 12/01/85 | 1300 | 13.85 | 5 | 1690 | 5173 | 23604 |
| 12/08/85 | 1715 | 6.99 | 2 | 192 | 1299 | 673 |
| 12/16/85 | 1530 | 7.79 | 0 | 145 | 1611 | 631 |
| 01/19/86 | 1700 | 8.97 | 0 | 271 | 2127 | 1556 |
| 01/27/86 | 1700 | 4.12 | 0 | 121 | 412 | 135 |
| 02/02/86 | 1700 | 4.04 | 0 | 194 | 393 | 206 |
| 02/19/86 | 0930 | 11.90 | 0 | 1055 | 3772 | 10744 |
| 02/25/86 | 1615 | 4.91 | 1 | 150 | 613 | 248 |
| 03/02/86 | 1650 | 5.83 | 2 | 326 | 885 | 779 |
| 03/05/86 | 1330 | 7.74 | 02 | 782 | 1592 | 3361 |
| 03/11/86 | 1730 | 8.88 | 6 | 7300 | 2083 | 41056 |
| 03/17/86 | 1615 | 5.21 | 6 | 246 | 695 | 462 |
| 03/23/86 | 1630 | 5.05 | 7 | 234 | 651 | 411 |
| 03/30/86 | 1745 | 4.44 | 12 | 211 | 494 | 281 |
| 04/06/86 | 1800 | 4.03 | 16 | 153 | 391 | 161 |
| 04/13/86 | 1730 | 3.75 | 15 | 146 | 328 | 129 |
| 04/20/86 | 1800 | 3.60 | 14 | 145 | 298 | 117 |
| 04/27/86 | 2015 | 3.37 | 21 | 168 | 250 | 113 |
| 04/30/86 | 0943 | 3.40 | 18 | 119 | 257 | 83 |
| 05/05/86 | 1330 | 3.75 | 18 | 291 | 328 | 258 |
| 05/11/86 | 1515 | 3.46 | 20 | 286 | 269 | 208 |
| 05/18/86 | 1220 | 7.96 | 16 | 3878 | 1678 | 17570 |
| 05/26/86 | 1600 | 4.50 | 17 | 440 | 510 | 606 |
| 06/02/86 | 0715 | 3.85 | 28 | 220 | 350 | 208 |
| 06/10/86 | 1015 | 3.78 | 23 | 312 | 335 | 282 |
| 06/15/86 | 1300 | 3.80 | 21 | 339 | 339 | 310 |
| 06/17/86 | 1315 | 3.69 | 25 | 275 | 316 | 235 |
| 06/24/86 | 0710 | 3.18 | 23 | 211 | 214 | 122 |

SPOON RIVER at LONDON MILLS (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 07/01/86 | 1400 | 7.12 | 22 | 3156 | 1349 | 11495 |
| 07/06/86 | 1600 | 3.78 | 28 | 338 | 335 | 306 |
| 07/14/86 | 1700 | 7.35 | 24 | 1098 | 1439 | 4266 |
| 07/22/86 | 1330 | 3.81 | 27 | 207 | 341 | 191 |
| 07/27/86 | 1440 | 3.34 | 28 | 73 | 244 | 48 |
| 07/31/86 | 1340 | 12.05 | 22 | 3887 | 3876 | 40678 |
| 08/06/86 | 1640 | 4.87 | 21 | 1185 | 603 | 1929 |
| 08/13/86 | 1830 | 2.97 | 21 | 51 | 176 | 24 |
| 08/17/86 | 1900 | 2.92 | 25 | 66 | 166 | 30 |
| 08/27/86 | 1430 | 2.93 | 22 | 40 | 168 | 18 |
| 09/03/86 | 2000 | 2.27 | 22 | 64 | 68 | 12 |
| 09/09/86 | 1050 | 2.15 | 11 | 59 | 53 | 8 |
| 09/17/86 | 1400 | 2.18 | 18 | 124 | 57 | 19 |
| 09/17/86 | 1815 | 2.18 | 17 | 84 | 57 | 13 |
| 09/24/86 | 1820 | 6.32 | 20 | 1684 | 1054 | 4792 |

LA MOINE RIVER at COLMAR

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/07/85 | 1215 | 2.89 | 12 | 80 | 27 | 6 |
| 10/09/85 | 1320 | 3.02 | 14 | 91 | 34 | 8 |
| 10/14/85 | 1412 | 4.10 | 14 | 219 | 111 | 66 |
| 10/21/85 | 1238 | 5.13 | 15 | 155 | 214 | 90 |
| 10/28/85 | 0811 | 3.86 | 10 | 111 | 91 | 27 |
| 11/04/85 | 1207 | 6.77 | 8 | 109 | 423 | 124 |
| 11/11/85 | 1545 | 16.88 | 5 | 402 | 2463 | 2673 |
| 11/17/85 | 1310 | 19.97 | 9 | 291 | 4287 | 3368 |
| 11/25/85 | 1156 | 4.68 | 2 | 94 | 166 | 42 |
| 12/02/85 | 1220 | 20.86 | 0 | 325 | 5442 | 4775 |
| 12/09/85 | 1230 | 7.80 | 0 | 77 | 573 | 119 |
| 11/18/85 | 1330 | 20.00 | 10 | 381 | 4320 | 4444 |
| 01/20/86 | 1146 | 7.97 | 0 | 179 | 599 | 289 |
| 03/04/85 | 1300 | 15.71 | 02 | 920 | 2141 | 5318 |
| 03/10/86 | 0750 | 7.68 | 7 | 119 | 555 | 178 |
| 03/17/86 | 0810 | 7.18 | 7 | 66 | 482 | 86 |
| 03/24/86 | 1535 | 6.36 | 9 | 83 | 368 | 82 |
| 03/31/86 | 1450 | 5.40 | 19 | 93 | 245 | 61 |
| 04/06/86 | 1025 | 4.92 | 18 | 307 | 191 | 158 |
| 04/13/86 | 1244 | 4.00 | 11 | 107 | 103 | 30 |
| 04/20/86 | 1200 | 4.36 | 10 | 117 | 134 | 42 |
| 04/27/86 | 1505 | 4.14 | 21 | 117 | 114 | 36 |
| 05/01/86 | 1310 | 4.81 | 18 | 269 | 179 | 130 |
| 05/04/86 | 1000 | 4.25 | 19 | 54 | 124 | 18 |
| 05/11/86 | 1008 | 5.61 | 17 | 517 | 271 | 378 |
| 05/18/86 | 1036 | 19.13 | 15 | 1707 | 3551 | 16366 |
| 05/25/86 | 0700 | 5.45 | 17 | 216 | 251 | 146 |
| 06/01/86 | 1005 | 5.95 | 20 | 363 | 316 | 310 |
| 06/08/86 | 0700 | 22.43 | 19 | 629 | 8937 | 15178 |
| 06/15/86 | 1000 | 7.31 | 19 | 352 | 501 | 476 |
| 06/16/86 | 1245 | 8.15 | 23 | 560 | 627 | 948 |
| 06/22/86 | 0701 | 5.00 | 18 | 166 | 200 | 90 |
| 06/29/86 | 0700 | 10.81 | 22 | 5425 | 1097 | 16068 |
| 07/06/86 | 1900 | 16.15 | 24 | 597 | 2244 | 3617 |
| 07/14/86 | 1700 | 10.50 | 24 | 183 | 1038 | 513 |
| 07/20/86 | 1955 | 11.20 | 23 | 262 | 1174 | 830 |
| 07/27/86 | 2000 | 6.20 | 23 | 90 | 347 | 84 |
| 07/29/86 | 1310 | 6.42 | 25 | 4543 | 376 | 4612 |

LA MOINE RIVER at COLMAR (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 08/03/86 | 0700 | 4.13 | 22 | 129 | 114 | 40 |
| 08/11/86 | 1205 | 3.74 | 22 | 134 | 81 | 29 |
| 08/18/86 | 1435 | 3.37 | 23 | 79 | 54 | 11 |
| 08/25/86 | 1500 | 3.05 | 24 | 200 | 35 | 19 |
| 09/01/86 | 1500 | 2.75 | 20 | 90 | 20 | 5 |
| 09/07/86 | 1731 | 2.67 | 18 | 82 | 17 | 4 |
| 09/14/86 | 1210 | 3.04 | 18 | 147 | 35 | 14 |
| 09/15/86 | 1345 | 3.10 | 21 | 113 | 38 | 12 |
| 09/21/86 | 1540 | 6.18 | 20 | 553 | 345 | 515 |
| 09/27/86 | 1500 | 6.14 | 22 | 219 | 340 | 201 |

LA MOINE RIVER at RIPLEY

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/06/85 | 0800 | 5.44 | 11 | 133 | 69 | 27 |
| 10/09/85 | 1035 | 5.36 | 15 | 588 | 62 | 109 |
| 10/13/85 | 0800 | 7.30 | 14 | 107 | 311 | 100 |
| 10/20/85 | 0800 | 10.45 | 17 | 654 | 1039 | 2038 |
| 10/27/85 | 0800 | 7.50 | 15 | 422 | 344 | 435 |
| 11/03/85 | 0800 | 15.66 | 10 | 468 | 3074 | 4316 |
| 11/10/85 | 0800 | 16.82 | 10 | 1362 | 3641 | 14877 |
| 11/17/85 | 0800 | 23.46 | 6 | 250 | 9605 | 7204 |
| 11/18/85 | 1045 | 24.09 | 8 | 255 | 10860 | 8308 |
| 11/24/85 | 0800 | 23.84 | 3 | 180 | 10300 | 5562 |
| 12/08/85 | 0800 | 13.55 | 1 | 118 | 2119 | 750 |
| 12/15/85 | 0800 | 12.66 | 0 | 48 | 1764 | 254 |
| 01/26/86 | 0800 | 7.55 | 0 | 15 | 353 | 16 |
| 02/09/86 | 0800 | 8.41 | 0 | 142 | 523 | 223 |
| 03/02/86 | 0800 | 14.67 | 1 | 382 | 2602 | 2982 |
| 03/04/86 | 1015 | 16.47 | 02 | 778 | 3464 | 8085 |
| 03/09/86 | 0800 | 9.93 | 5 | 262 | 900 | 707 |
| 03/16/86 | 0800 | 10.23 | 7 | 146 | 980 | 429 |
| 03/19/86 | 0800 | 10.46 | 8 | 207 | 1042 | 647 |
| 03/30/86 | 0800 | 7.55 | 16 | 84 | 353 | 89 |
| 04/06/86 | 0800 | 7.13 | 17 | 133 | 284 | 113 |
| 04/13/86 | 0800 | 6.67 | 15 | 138 | 211 | 87 |
| 04/20/86 | 0800 | 6.45 | 14 | 132 | 180 | 71 |
| 04/27/86 | 0800 | 6.10 | 19 | 136 | 137 | 56 |
| 05/01/86 | 1115 | 11.59 | 17 | 6734 | 1382 | 27919 |
| 05/04/86 | 0800 | 6.97 | 17 | 292 | 260 | 228 |
| 05/11/86 | 0800 | 9.04 | 20 | 733 | 669 | 1471 |
| 05/18/86 | 0800 | 17.53 | 18 | 5108 | 4017 | 61556 |
| 05/25/86 | 0800 | 8.32 | 19 | 267 | 504 | 404 |
| 05/30/86 | 0800 | 11.79 | 19 | 2527 | 1449 | 10985 |
| 06/08/86 | 0800 | 18.74 | 24 | 939 | 4722 | 13302 |
| 06/15/86 | 0800 | 16.76 | 21 | 8784 | 3611 | 95157 |
| 06/16/86 | 1000 | 15.21 | 22 | 3170 | 2857 | 27170 |
| 06/22/86 | 0800 | 7.61 | 26 | 202 | 364 | 221 |
| 06/29/86 | 0800 | 10.99 | 25 | 3110 | 1194 | 11140 |
| 07/06/86 | 0800 | 7.33 | 26 | 293 | 316 | 278 |
| 07/13/86 | 0800 | 20.08 | 26 | 504 | 5636 | 8522 |
| 07/20/86 | 0800 | 8.13 | 27 | 205 | 465 | 286 |

LA MOINE RIVER at RIPLEY (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 07/27/86 | 0800 | 6.50 | 27 | 68 | 187 | 38 |
| 07/29/86 | 1000 | 15.06 | 24 | 3090 | 2785 | 25817 |
| 08/03/86 | 0800 | 6.33 | 23 | 112 | 165 | 55 |
| 08/10/86 | 0800 | 6.56 | 23 | 163 | 195 | 95 |
| 08/17/86 | 0800 | 5.55 | 22 | 78 | 78 | 18 |
| 08/24/86 | 0800 | 5.44 | 22 | 98 | 69 | 20 |
| 08/31/86 | 0800 | 5.23 | 19 | 79 | 52 | 12 |
| 09/07/86 | 0800 | 5.08 | 19 | 99 | 41 | 12 |
| 09/14/86 | 0800 | 5.96 | 18 | 235 | 121 | 85 |
| 09/15/86 | 1130 | 5.64 | 20 | 774 | 87 | 202 |
| 09/21/86 | 0800 | 6.12 | 21 | 169 | 140 | 71 |
| 09/28/86 | 0800 | 9.44 | 23 | 371 | 767 | 854 |

SANGAMON RIVER at MONTICELLO

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/03/85 | 1330 | 4.21 | 14 | 61 | 24 | 4 |
| 10/11/85 | 1315 | 4.24 | 14 | 78 | 26 | 5 |
| 10/15/85 | 1600 | 4.31 | 18 | 70 | 29 | 5 |
| 11/01/85 | 1000 | 6.85 | 13 | 74 | 267 | 53 |
| 11/08/85 | 1130 | 9.09 | 12 | 67 | 655 | 118 |
| 11/12/85 | 0900 | 11.10 | 10 | 85 | 1405 | 322 |
| 11/21/85 | 1415 | 17.32 | 9 | 289 | 11440 | 8927 |
| 12/12/85 | 1200 | 12.78 | 13 | 116 | 2636 | 826 |
| 12/15/85 | 1300 | 10.34 | 13 | 113 | 1033 | 315 |
| 12/17/85 | 1130 | 10.00 | 2 | 100 | 893 | 241 |
| 01/17/86 | 1330 | 6.30 | 3 | 72 | 194 | 38 |
| 02/07/86 | 1330 | 11.58 | 02 | 87 | 1688 | 396 |
| 02/20/86 | 1500 | 10.70 | 3 | 303 | 1198 | 980 |
| 02/28/86 | 0800 | 7.05 | 0 | 99 | 296 | 79 |
| 03/07/86 | 1100 | 11.48 | 0 | 164 | 1626 | 720 |
| 03/13/86 | 1000 | 9.76 | 4 | 150 | 825 | 334 |
| 03/21/86 | 0830 | 8.35 | 0 | 122 | 511 | 168 |
| 03/27/86 | 1000 | 7.35 | 7 | 133 | 343 | 123 |
| 04/04/86 | 1030 | 6.62 | 12 | 123 | 236 | 78 |
| 04/11/86 | 1000 | 6.17 | 09 | 60 | 179 | 29 |
| 04/17/86 | 0800 | 5.97 | 06 | 33 | 157 | 14 |
| 04/23/86 | 1000 | 5.80 | 08 | 52 | 139 | 19 |
| 05/01/86 | 0915 | 6.83 | 13 | 247 | 265 | 177 |
| 05/07/86 | 1530 | 7.63 | 17 | 460 | 387 | 481 |
| 05/16/86 | 0830 | 7.66 | 15 | 806 | 392 | 853 |
| 05/19/86 | 1345 | 7.35 | 13 | 221 | 343 | 205 |
| 05/29/86 | 1705 | 7.33 | 17 | 193 | 340 | 177 |
| 06/06/86 | 1000 | 6.98 | 18 | 274 | 286 | 212 |
| 06/13/86 | 1100 | 9.20 | 17 | 217 | 681 | 399 |
| 06/26/86 | 1330 | 5.86 | 21 | 120 | 145 | 47 |
| 07/03/86 | 0800 | 9.54 | 18 | 409 | 765 | 845 |
| 07/11/86 | 0945 | 7.02 | 21 | 313 | 292 | 247 |
| 07/16/86 | 1000 | 8.29 | 23 | 274 | 499 | 369 |
| 07/25/86 | 0930 | 5.23 | 23 | 130 | 85 | 30 |
| 07/30/86 | 0900 | 4.78 | 22 | 80 | 54 | 12 |
| 08/08/86 | 1000 | 4.40 | 20 | 36 | 33 | 3 |

SANGAMON RIVER at MONTICELLO (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 08/18/86 | 1000 | 4.20 | 21 | 117 | 24 | 8 |
| 08/28/86 | 1000 | 4.12 | 16 | 119 | 21 | 7 |
| 09/11/86 | 1000 | 3.78 | 19 | 173 | 10 | 5 |
| 09/18/86 | 1500 | 3.93 | 17 | 169 | 14 | 6 |
| 09/25/86 | 1130 | 4.35 | 21 | 96 | 30 | 8 |

KASKASKIA RIVER at VANDALIA

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/01/85 | 0800 | 4.95 | - | 59 | 591 | 94 |
| 10/08/85 | 0800 | 2.20 | - | 96 | 62 | 16 |
| 10/15/85 | 1500 | 2.95 | - | 103 | 174 | 48 |
| 10/21/85 | 1600 | 2.24 | - | 49 | 67 | 9 |
| 10/28/85 | 1500 | 2.32 | - | 56 | 78 | 12 |
| 11/05/85 | 0930 | 2.60 | - | 66 | 118 | 21 |
| 11/11/85 | 1450 | 3.80 | - | 279 | 333 | 251 |
| 11/18/85 | 1430 | 5.74 | - | 266 | 791 | 568 |
| 11/25/85 | 1300 | 16.80 | - | 852 | 5707 | 13128 |
| 12/02/85 | 1430 | 11.85 | - | 248 | 2839 | 1901 |
| 12/16/85 | 1330 | 15.25 | - | 164 | 4697 | 2080 |
| 12/23/85 | 1315 | 15.65 | - | 158 | 4936 | 2106 |
| 12/30/85 | 1320 | 15.15 | - | 214 | 4638 | 2680 |
| 01/06/86 | 1400 | 14.45 | - | 140 | 4215 | 1593 |
| 01/13/86 | 1400 | 10.25 | - | 96 | 2198 | 570 |
| 01/21/86 | 1350 | 10.20 | - | 107 | 2178 | 629 |
| 02/03/86 | 1415 | 16.75 | - | 837 | 5671 | 12816 |
| 02/10/86 | 1500 | 9.10 | - | 87 | 1784 | 419 |
| 02/19/86 | 1500 | 8.40 | - | 62 | 1558 | 261 |
| 02/25/86 | 1430 | 8.35 | - | 52 | 1543 | 217 |
| 02/26/86 | 1400 | 8.46 | - | 90 | 1577 | 383 |
| 03/04/86 | 1330 | 7.28 | - | 38 | 1218 | 125 |
| 03/11/86 | 1530 | 9.40 | - | 159 | 1888 | 810 |
| 03/18/86 | 1500 | 7.26 | - | 101 | 1212 | 330 |
| 03/25/86 | 1300 | 7.24 | - | 49 | 1206 | 160 |
| 04/01/86 | 1530 | 6.10 | - | 101 | 887 | 242 |
| 04/08/86 | 1500 | 4.45 | - | 97 | 474 | 124 |
| 04/16/86 | 1500 | 3.72 | - | 54 | 317 | 46 |
| 04/22/86 | 1400 | 3.25 | - | 61 | 227 | 37 |
| 04/29/86 | 1300 | 3.15 | - | 91 | 209 | 51 |
| 05/06/86 | 1600 | 2.95 | - | 114 | 174 | 54 |
| 05/12/86 | 1500 | 3.00 | - | 149 | 182 | 73 |
| 05/29/86 | 1500 | 4.23 | - | 576 | 425 | 661 |
| 06/04/86 | 1430 | 2.65 | - | 46 | 125 | 15 |
| 06/10/86 | 1500 | 4.70 | - | 262 | 531 | 376 |
| 06/17/86 | 1430 | 7.33 | - | 307 | 1233 | 1022 |
| 06/24/86 | 0810 | 5.74 | - | 143 | 791 | 305 |

KASKASKIA RIVER at VANDALIA (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 07/01/86 | 0900 | 9.55 | - | 1528 | 1940 | 8004 |
| 07/09/86 | 1500 | 4.75 | - | 244 | 543 | 358 |
| 07/14/86 | 1430 | 4.29 | - | 196 | 438 | 232 |
| 07/15/86 | 1300 | 4.82 | - | 258 | 560 | 390 |
| 07/22/86 | 1525 | 3.05 | - | 85 | 191 | '44 |
| 07/29/86 | 1450 | 2.95 | - | 224 | 174 | 105 |
| 08/05/86 | 1430 | 3.49 | - | 82 | 272 | 60 |
| 08/12/86 | 1500 | 2.95 | - | 92 | 174 | 43 |
| 08/19/86 | 1400 | 2.80 | - | 125 | 149 | 50 |
| 08/27/86 | 1500 | 2.25 | - | 116 | 68 | 21 |
| 09/08/86 | 1530 | 2.03 | - | P5 | 42 | 14 |
| 09/15/86 | 1600 | 1.98 | - | 108 | 37 | 11 |
| 09/23/86 | 1600 | 2.26 | - | 79 | 70 | 15 |
| 09/30/86 | 1100 | 2.16 | - | 80 | 57 | 1? |

EMBARRAS RIVER at STE. MARIE

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/05/85 | 1500 | 0.95 | - | 86 | 39 | 9 |
| 10/12/85 | 1500 | 1.00 | - | 89 | 46 | 11 |
| 10/19/85 | 1600 | 1.00 | - | 108 | 46 | 13 |
| 10/26/85 | 1400 | 1.03 | - | 96 | 50 | 13 |
| 11/02/85 | 1400 | 2.48 | - | 95 | 333 | 85 |
| 11/05/85 | 1400 | 7.00 | - | 415 | 1852 | 2075 |
| 11/19/85 | 1200 | 18.60 | - | 479 | 8612 | 11138 |
| 11/22/85 | 1100 | 20.78 | - | 260 | 14250 | 10003 |
| 12/02/85 | 1200 | 16.20 | - | 258 | 6609 | 4604 |
| 12/13/85 | 1300 | 21.33 | - | 526 | 15980 | 22695 |
| 12/28/85 | 1200 | 4.74 | - | 127 | 1000 | 343 |
| 01/05/86 | 1400 | 3.47 | - | 128 | 598 | 207 |
| 01/15/86 | 1300 | 2.88 | - | 38 | 435 | 45 |
| 01/21/86 | 1000 | 3.34 | - | 118 | 561 | 179 |
| 01/27/86 | 1300 | 2.74 | - | 105 | 398 | 113 |
| 02/06/86 | 1400 | 10.47 | - | 746 | 3432 | 6913 |
| 02/10/86 | 1300 | 7.61 | - | 380 | 2108 | 2163 |
| 02/17/86 | 1300 | 4.25 | - | 255 | 837 | 576 |
| 02/20/86 | 1120 | 5.08 | - | 109 | 1117 | 329 |
| 02/26/86 | 1300 | 4.71 | - | 176 | 989 | 470 |
| 03/07/86 | 1300 | 5.51 | - | 435 | 1272 | 1494 |
| 03/15/86 | 1700 | 7.11 | - | 375 | 1897 | 1921 |
| 03/20/86 | 1700 | 13.43 | - | 895 | 4995 | 12070 |
| 03/24/86 | 1700 | 5.64 | - | 263 | 1320 | 937 |
| 03/29/86 | 1200 | 4.23 | - | 197 | 831 | 442 |
| 04/05/86 | 1500 | 3.57 | - | 169 | 627 | 286 |
| 04/12/86 | 1300 | 2.87 | - | 259 | 432 | 302 |
| 04/19/86 | 1100 | 2.62 | - | 141 | 368 | 140 |
| 04/26/86 | 1100 | 2.37 | - | 142 | 307 | 118 |
| 05/05/86 | 1200 | 3.74 | - | 285 | 678 | 522 |
| 05/12/86 | 1300 | 2.46 | - | 175 | 328 | 155 |
| 05/14/86 | 0800 | 3.38 | - | 923 | 572 | 1425 |
| 05/15/86 | 1145 | 4.50 | 19 | 2092 | 919 | 5191 |
| 05/19/86 | 1500 | 3.82 | 19 | 414 | 702 | 785 |
| 05/27/86 | 1200 | 2.57 | 24 | 247 | 355 | 237 |
| 06/04/86 | 1600 | 6.40 | 24 | 647 | 1610 | 2812 |
| 06/20/86 | 1500 | 3.10 | 33 | 194 | 494 | 259 |

EMBARRAS RIVER at STE. MARIE (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 06/27/86 | 1500 | 2.10 | 33 | 302 | 245 | 200 |
| 07/02/86 | 1600 | 3.81 | 27 | 1223 | 699 | 2308 |
| 07/08/86 | 1500 | 1.95 | 34 | 174 | 213 | 100 |
| 07/12/86 | 1500 | 5.20 | 26 | 889 | 1160 | 2784 |
| 07/14/86 | 1800 | 7.80 | 27 | 652 | 2189 | 3853 |
| 07/23/86 | 1600 | 1.87 | - | 73 | 196 | 39 |
| 07/30/86 | 1600 | 1.73 | 32 | 93 | 168 | 42 |
| 08/06/86 | 1700 | 1.62 | 26 | 1313 | 146 | 518 |
| 08/16/86 | 1500 | 1.14 | 24 | 107 | 65 | 19 |
| 08/22/86 | 1600 | 0.91 | 29 | 90 | 34 | 8 |
| 08/30/86 | 1500 | 0.77 | - | 28 | 19 | 1 |
| 09/08/86 | 1500 | 0.71 | 23 | 49 | 13 | 2 |
| 09/15/86 | 1500 | 0.71 | 25 | 48 | 13 | 2 |

SILVER CREEK near FREEBURG

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/04/85 | 1600 | 0.58 | - | 39 | 9 | 1 |
| 10/09/85 | 0830 | 0.52 | - | 15 | 7 | 0 |
| 10/17/85 | 1100 | 1.08 | - | 31 | 33 | 3 |
| 10/22/85 | 1300 | 1.34 | - | 78 | 47 | 10 |
| 10/30/85 | 1700 | 1.29 | - | 16 | 44 | 2 |
| 11/04/85 | 1300 | 1.25 | - | 14 | 42 | 2 |
| 11/13/85 | 0800 | 1.25 | - | 91 | 42 | 10 |
| 11/22/85 | 1630 | 12.70 | - | 178 | 2102 | 1010 |
| 12/07/85 | 1530 | 2.82 | - | 44 | 166 | 20 |
| 01/12/86 | 1300 | 1.93 | - | 18 | 88 | 4 |
| 01/17/86 | 1700 | 1.91 | - | 8 | 86 | 2 |
| 01/24/86 | 1500 | 1.71 | - | 10 | 71 | 2 |
| 01/30/86 | 1200 | 1.52 | - | 10 | 59 | 2 |
| 02/03/86 | 1200 | 20.20 | - | 799 | 8553 | 18451 |
| 02/10/86 | 1530 | 10.87 | - | 224 | 1595 | 965 |
| 02/17/86 | 1400 | 3.80 | - | 109 | 274 | 81 |
| 02/24/86 | 1300 | 3.39 | - | 74 | 226 | 45 |
| 02/26/86 | 1030 | 3.15 | - | 49 | 200 | 26 |
| 03/04/86 | 1200 | 2.37 | - | 40 | 124 | 13 |
| 03/11/86 | 1000 | 2.28 | - | 61 | 116 | 19 |
| 03/18/86 | 1700 | 2.87 | - | 341 | 171 | 157 |
| 03/31/86 | 1200 | 1.93 | - | 63 | 88 | 15 |
| 04/07/86 | 1800 | 1.63 | - | 145 | 66 | 26 |
| 04/14/86 | 1200 | 1.52 | - | 129 | 59 | 20 |
| 04/21/86 | 1200 | 1.55 | - | 142 | 61 | 23 |
| 04/28/86 | 1000 | 1.15 | - | 142 | 37 | 14 |
| 05/05/86 | 0900 | 1.10 | - | 123 | 34 | 11 |
| 05/12/86 | 0900 | 1.09 | - | 171 | 33 | 15 |
| 05/22/86 | 1300 | 1.08 | - | 78 | 33 | 7 |
| 05/27/86 | 1200 | 1.10 | - | 90 | 34 | 8 |
| 06/08/86 | 1300 | 1.64 | - | 365 | 67 | 66 |
| 06/10/86 | 1700 | 8.60 | - | 2118 | 1066 | 6096 |
| 06/19/86 | 2000 | 1.05 | - | 87 | 31 | 7 |
| 06/27/86 | 1100 | 0.67 | - | 57 | 13 | 2 |
| 07/11/86 | 1300 | 2.54 | - | 355 | 139 | 133 |
| 07/15/86 | 0800 | 7.38 | - | 549 | 828 | 1227 |
| 07/15/86 | 0920 | 7.41 | 24 | 742 | 834 | 1671 |

SILVER CREEK near FREEBURG (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 07/28/86 | 1900 | 0.66 | - | 40 | 12 | 1 |
| 08/03/86 | 0900 | 0.46 | - | 68 | 5 | 1 |
| 08/19/86 | 1200 | 0.64 | - | | | 97 11 3 |
| 08/28/86 | 1200 | 0.68 | - | 73 | 13 | 3 |
| 09/04/86 | 1400 | 0.49 | - | 50 | 6 | 1 |
| 09/08/86 | 1400 | 0.45 | - | 40 | 5 | 0 |
| 09/19/86 | 1200 | 2.26 | - | 451 | 114 | 139 |

CACHE RIVER at FORMAN

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 10/05/85 | 1310 | 1.38 | - | 20 | 11 | 1 |
| 10/14/85 | 1515 | 2.50 | - | 83 | 66 | 15 |
| 10/15/85 | 1805 | 4.64 | - | 209 | 251 | 142 |
| 10/19/85 | 1220 | 1.67 | - | 47 | 22 | 3 |
| 10/20/85 | 1620 | 2.74 | - | 78 | 83 | 17 |
| 10/23/85 | 1755 | 8.13 | - | 1611 | 705 | 3067 |
| 10/24/85 | 1700 | 5.88 | - | 170 | 393 | 180 |
| 10/28/85 | 1640 | 2.38 | - | 33 | 59 | 5 |
| 10/30/85 | 1648 | 8.43 | - | 235 | 753 | 478 |
| 10/31/85 | 1655 | 9.70 | - | 274 | 967 | 715 |
| 11/02/85 | 1630 | 8.52 | - | 124 | 767 | 257 |
| 11/11/85 | 1125 | 2.98 | - | 31 | 100 | 8 |
| 11/15/85 | 1620 | 6.81 | - | 112 | 511 | 155 |
| 11/17/85 | 1150 | 7.79 | - | 110 | 653 | 194 |
| 11/20/85 | 1700 | 8.88 | - | 164 | 826 | 366 |
| 11/25/85 | 1745 | 7.45 | - | 49 | 601 | 80 |
| 11/26/85 | 1605 | 10.33 | - | 632 | 1078 | 1839 |
| 11/27/85 | 1545 | 13.48 | - | 380 | 1759 | 1805 |
| 11/28/85 | 1430 | 13.25 | - | 190 | 1706 | 875 |
| 12/01/85 | 1525 | 10.82 | - | 76 | 1167 | 239 |
| 12/10/85 | 1605 | 4.35 | - | 21 | 222 | 13 |
| 12/11/85 | 1612 | 10.18 | - | 827 | 1052 | 2349 |
| 12/15/85 | 1445 | 6.53 | - | 44 | 474 | 56 |
| 12/24/85 | 1300 | 3.46 | - | 20 | 139 | 7 |
| 12/29/85 | 1610 | 2.63 | - | 18 | 75 | 4 |
| 01/05/86 | 1648 | 2.35 | - | 19 | 57 | 3 |
| 01/12/86 | 1530 | 2.03 | - | 9 | 39 | 1 |
| 01/19/86 | 1630 | 3.80 | - | 126 | 169 | 57 |
| 01/26/86 | 1450 | 2.62 | - | 18 | 74 | 4 |
| 02/01/86 | 1505 | 2.25 | - | 5 | 51 | 1 |
| 02/02/86 | 1645 | 2.45 | - | 85 | 63 | 14 |
| 02/03/86 | 1550 | 13.46 | - | 2342 | 1754 | 11091 |
| 02/04/86 | 1600 | 13.67 | - | 546 | 1802 | 2657 |
| 02/08/86 | 1029 | 9.88 | - | 140 | 999 | 378 |
| 02/15/86 | 1331 | 4.49 | - | 42 | 236 | 27 |
| 02/17/86 | 1754 | 6.63 | - | 98 | 487 | 129 |
| 02/23/86 | 1620 | 3.57 | - | 34 | 148 | 14 |
| 03/02/86 | 1606 | 2.67 | - | 20 | 78 | 4 |
| 03/09/86 | 1545 | 2.39 | - | 15 | 59 | 2 |
| 03/13/86 | 1658 | 9.92 | - | 415 | 1006 | 1127 |

CACHE RIVER at FORMAN (continued)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 03/16/86 | 1645 | 7.25 | - | 165 | 572 | 255 |
| 03/23/86 | 1800 | 4.08 | - | 38 | 195 | 20 |
| 03/30/86 | 1700 | 2.67 | - | 44 | 78 | 9 |
| 04/05/86 | 1530 | 2.63 | - | 61 | 75 | 12 |
| 04/13/86 | 1705 | 2.55 | - | 52 | 70 | 10 |
| 04/20/86 | 1650 | 3.11 | - | 70 | 110 | 21 |
| 04/21/86 | 1545 | 5.76 | - | 203 | 378 | 207 |
| 04/22/86 | 1710 | 6.10 | - | 152 | 420 | 172 |
| 04/28/86 | 1811 | 3.75 | - | 109 | 164 | 48 |
| 04/29/86 | 1545 | 3.45 | - | 133 | 138 | 50 |
| 05/04/86 | 1825 | 2.11 | - | 56 | 44 | 7 |
| 05/11/86 | 1550 | 1.71 | - | 52 | 24 | 3 |
| 05/14/86 | 1650 | 1.81 | - | 43 | 28 | 3 |
| 05/15/86 | 1405 | 10.45 | - | 1899 | 1100 | 5640 |
| 05/16/86 | 1045 | 16.69 | 19 | 672 | 2691 | 4883 |
| 05/17/86 | 0715 | 19.44 | - | 291 | 3729 | 2930 |
| 05/17/86 | 1625 | 20.13 | - | 185 | 4019 | 2007 |
| 05/18/86 | 0725 | 21.29 | - | 134 | 4538 | 1642 |
| 05/18/86 | 1750 | 21.69 | - | 134 | 4733 | 1712 |
| 05/20/86 | 1502 | 16.40 | 19 | 156 | 2588 | 1090 |
| 05/21/86 | 1338 | 13.75 | 18 | 154 | 1821 | 757 |
| 05/24/86 | 0905 | 7.20 | - | 118 | 565 | 180 |
| 05/25/86 | 1455 | 8.46 | - | 213 | 758 | 436 |
| 05/26/86 | 0920 | 12.60 | - | 953 | 1555 | 4001 |
| 05/26/86 | 1855 | 12.44 | - | 422 | 1518 | 1730 |
| 06/01/86 | 1830 | 4.55 | - | 85 | 242 | 56 |
| 06/05/86 | 1815 | 5.57 | - | 133 | 355 | 127 |
| 06/07/86 | 1030 | 5.35 | - | 233 | 329 | 207 |
| 06/10/86 | 0730 | 6.67 | 24 | 159 | 492 | 211 |
| 06/10/86 | 1353 | 6.27 | 25 | 166 | 441 | 198 |
| 06/15/86 | 1655 | 2.53 | - | 58 | 68 | 11 |
| 06/22/86 | 1625 | 1.69 | 31 | 33 | 23 | 2 |
| 06/27/86 | 1103 | 1.45 | 26 | 43 | 13 | 2 |
| 06/29/86 | 1655 | 1.42 | 31 | 28 | 12 | 1 |
| 07/13/86 | 1617 | 1.40 | 30 | 43 | 12 | 1 |
| 07/15/86 | 0940 | 3.27 | 26 | 267 | 123 | 89 |
| 07/23/86 | 1449 | 1.37 | 29 | 75 | 11 | 2 |
| 07/27/86 | 1145 | 1.27 | 29 | 92 | 8 | 2 |
| 08/03/86 | 1610 | 1.13 | - | 29 | 5 | 0 |
| 08/07/86 | 1439 | 1.26 | 25 | 453 | 8 | 10 |
| 08/08/86 | 0930 | 1.29 | 25 | 49 | 9 | 1 |
| 08/10/86 | 1615 | 6.46 | 25 | 1381 | 465 | 1734 |
| 08/12/86 | 1122 | 5.37 | 24 | 324 | 332 | 290 |

CACHE RIVER at FORMAN (concluded)

| Date | Time | Stage (ft) | Temp (° C) | Cs (mg/l) | Qw (cfs) | Qs (t/d) |
|----------|------|---------------|---------------|--------------|-------------|-------------|
| 08/12/86 | 1143 | 5.35 | - | 313 | 329 | 278 |
| 08/19/86 | 1750 | 12.02 | 26 | 85 | 1422 | 326 |
| 08/24/86 | 1640 | 1.25 | 28 | 46 | 8 | 1 |
| 08/28/86 | 1409 | 1.13 | 24 | 51 | 5 | 1 |
| 08/31/86 | 1515 | 1.09 | 25 | 30 | 4 | 0 |
| 09/04/86 | 1156 | 1.14 | 24 | 38 | 5 | 1 |
| 09/07/86 | 1750 | 1.03 | 20 | 22 | 3 | 0 |
| 09/11/86 | 1147 | 1.01 | 23 | 21 | 3 | 0 |
| 09/18/86 | 1640 | 1.29 | 21 | 92 | 9 | 2 |
| 09/19/86 | 1625 | 4.42 | 23 | 298 | 229 | 184 |
| 09/20/86 | 1745 | 3.73 | 24 | 220 | 163 | 97 |
| 09/23/86 | 1840 | 1.67 | 24 | 281 | 22 | 17 |
| 09/24/86 | 1830 | 2.59 | 25 | 181 | 72 | 35 |
| 09/26/86 | 1254 | 3.57 | 24 | 183 | 148 | 73 |
| 09/28/86 | 1545 | 1.78 | 28 | 68 | 27 | 5 |

Appendix B. Suspended Sediment Sample Record,
Water Year 1986

| ISWS ID | No. of Samples Collected | |
|---------|--------------------------|------------------|
| | Suspended sediment | Particle size |
| 102 | 43 | 3 |
| 103 | 51 | 3 |
| 105 | 51 | 3 |
| 118 | 37 | 3 |
| 122 | 54 | 4 |
| 123 | 46 | 3 |
| 124 | 47 | 3 |
| 228 | 54 | 4 |
| 229 | 52 | 4 |
| 242 | 48 | 4 |
| 245 | 50 | 4 |
| 249 | 41 | 4 |
| 361 | 51 - | |
| 362 | 50 | 1 |
| 367 | 44 - | |
| 378* | 98 - | |
| Totals | 817 | 43 |

* The samples for this station, and their laboratory analyses, were supplied by the Illinois State Water Survey's Cache River Project.

Appendix C. Statistical Parameters for the Annual Regression Equations,
Water Year 1986

$$Q_s = a Q_w^b$$

| Station Name | ISWS ID | Coefficient (a) | Slope (b) | Correlation coefficient (r) | Standard error of estimate |
|----------------------------------|------------|--------------------|--------------|-----------------------------------|----------------------------------|
| Pecatonica R. at Freeport | 102 | 6.74579 | 0.60359 | 0.59051 | 0.47988 |
| Rock R. at Rockton | 103 | 16.64799 | 0.47828 | 0.44140 | 0.63071 |
| Kishwaukee R. near Perryville | 105 | 0.22794 | 0.99199 | 0.92957 | 0.40207 |
| Big Bureau Cr. at Princeton | 118 | 0.04149 | 1.33948 | 0.91195 | 0.88654 |
| Vermilion R. near Leonore | 122 | 0.01218 | 1.40580 | 0.92129 | 0.88891 |
| Mazon R. near Coal City | 123 | 0.03074 | 1.34173 | 0.94579 | 0.85767 |
| Kankakee R. near Wilmington | 124 | 0.01061 | 1.30164 | 0.88833 | 0.90399 |
| Henderson Cr. near Oquawka | 228 | 0.01584 | 1.55455 | 0.96530 | 0.67284 |
| Spoon R. at London Mills | 229 | 0.02107 | 1.48203 | 0.96024 | 0.62561 |
| Lamoine R. at Colmar | 242 | 0.10586 | 1.23890 | 0.91906 | 0.99236 |
| Lamoine R. at Ripley | 245 | 0.11007 | 1.23635 | 0.92270 | 0.89337 |
| Sangamon R. at Monticello | 249 | 0.02899 | 1.45069 | 0.94918 | 0.67277 |
| Kaskaskia R. at Vandalia | 361 | 0.10211 | 1.27915 | 0.95281 | 0.55335 |
| Embarras R. at Ste. Marie | 362 | 0.00484 | 1.72294 | 0.95459 | 0.70555 |
| Silver Cr. near Freeburg | 367 | 0.12652 | 1.20601 | 0.95123 | 0.74841 |
| Cache R. at Forman | 378 | 0.04372 | 1.35744 | 0.88371 | 0.92194 |

Note: Q_s in tons/day, Q_w in cfs

Appendix D. Particle Size Analyses,
Water Year 1986

| ISWS ID | Date | Cs* | % < 62.5 μ ** |
|---------|----------|---------|-------------------|
| 102 | 11/06/85 | 140.62 | 72.73 |
| | 04/18/86 | 164.35 | 57.86 |
| | 08/15/86 | 151.66 | 73.66 |
| 103 | 11/08/85 | 68.48 | 86.43 |
| | 04/22/86 | 86.76 | 79.16 |
| | 07/23/86 | 80.23 | 91.12 |
| 105 | 11/11/85 | 1473.72 | 5.95 |
| | 04/24/86 | 86.75 | 49.96 |
| | 08/07/86 | 81.86 | 38.31 |
| 118 | 11/14/85 | 224.62 | 83.75 |
| | 04/17/86 | 76.25 | 73.16 |
| | 08/08/86 | 78.74 | 86.09 |
| 122 | 11/12/85 | 147.73 | 94.92 |
| | 03/12/86 | 299.02 | 96.30 |
| | 06/09/86 | 182.35 | 77.31 |
| | 09/30/86 | 144.05 | 93.38 |
| 123 | 11/13/86 | 165.80 | 74.41 |
| | 04/23/86 | 77.40 | 93.33 |
| | 07/24/86 | 77.48 | 63.79 |
| 124 | 11/12/85 | 91.49 | 95.52 |
| | 04/23/86 | 52.86 | 95.52 |
| | 07/22/86 | 68.79 | 72.86 |
| 228 | 10/08/85 | 286.42 | 94.65 |
| | 03/04/86 | 459.56 | 96.62 |
| | 06/17/86 | 184.27 | 83.01 |
| | 09/17/86 | 45.98 | 97.35 |
| 229 | 10/08/85 | 91.33 | 65.51 |
| | 03/05/86 | 781.82 | 98.00 |
| | 06/17/86 | 274.57 | 82.80 |
| | 09/17/86 | 123.66 | 76.32 |

Appendix D. Concluded

| ISWS ED | Date | Cs* | % < 62.5 μ ** |
|---------|----------|---------|-------------------|
| 242 | 10/09/85 | 91.11 | 82.67 |
| | 03/04/86 | 919.65 | 98.46 |
| | 06/16/86 | 896.00 | 81.42 |
| | 09/15/86 | 579.85 | 37.10 |
| 245 | 10/09/85 | 587.96 | 96.17 |
| | 03/04/86 | 778.47 | 95.20 |
| | 06/16/86 | 1383.63 | 99.40 |
| | 09/15/86 | 774.43 | 93.32 |
| 249 | 11/12/85 | 84.84 | 98.23 |
| | 02/07/86 | 86.67 | 98.75 |
| | 04/23/86 | 52.16 | 58.40 |
| | 08/28/86 | 119.21 | 74.37 |
| 362 | 05/15/86 | 2097.95 | 99.71 |

* Concentration of suspended sediment in parts per million

** Percent finer than 62.5 microns