

Data/Case Study 2001-01



**Benchmark Sediment Monitoring Program
for Illinois Streams:
Data Report for Water Years 1994 and 1995** ■

by
Richard L. Allgire
Watershed Science Section

Illinois State Water Survey
A Division of the Illinois Department of Natural Resources

2001

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Abstract

The Benchmark Sediment Monitoring Program for Illinois Streams was initiated by the Illinois State Water Survey in 1981 to generate a long-term database of suspended sediment transport. The program is now part of the Water Survey's Water and Atmospheric Resources Monitoring (WARM) Network, which monitors the climate, soil moisture, surface water, ground water, and sediment throughout Illinois. This report summarizes the suspended sediment data collected for the program during Water Years 1994 and 1995. All the techniques used in the data collection process and laboratory analyses are based on U.S. Geological Survey procedures and techniques. The report appendices present tables of instantaneous suspended sediment measurements, particle size analysis, sediment transport curves, and plots of instantaneous sediment concentrations for the period of record for the current monitoring stations.

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Introduction

The Illinois State Water Survey (ISWS) initiated the Benchmark Sediment Monitoring Program in 1981 to monitor and quantify the long-term changes in suspended sediment concentrations and loads in Illinois waterways. The data collected for this program can assist in evaluating the management of the state's land and water resources. This report presents an analysis and summary of the suspended sediment data collected during Water Years 1994 and 1995. A complete overview of the sediment program, including a description of the monitoring sites, can be found in the report, *Benchmark Sediment Monitoring Program for Illinois Streams: Program Summary and Site Descriptions* (Allgire and Demissie, 1995). Results from prior water years have been published in reports by Bonini et al. (1983), Davie (1988, 1989, and 1990), and Allgire (1997).

Acknowledgments

The Benchmark Sediment Monitoring Program is one of several components that comprises the Water and Atmospheric Resources Monitoring (WARM) Network. The data compilation and reporting are part of the author's regular duties for the Illinois State Water Survey.

The author wishes to acknowledge Paul Nelson, who is responsible for the data collection for the monitoring sites in central Illinois. Expressed appreciation goes to the Illinois Division of the U.S. Geological Survey for supplying the stream discharge rating tables necessary for data computations.

Becky Howard and Dawn Amrein prepared the camera-ready copy of the report, Eva Kingston and Agnes Dillon edited it, and Becky Howard and Linda Hascall helped prepare the graphs and maps.

Sediment Monitoring Program

Current Program Status

The primary purpose of the Benchmark Sediment Monitoring Program is to collect suspended sediment concentrations at selected stream locations throughout Illinois. These data are used to compare changes in suspended sediment concentrations and loads at individual sampling sites over a long period of time.

When the program began in 1981, there were 50 sampling stations strategically distributed throughout the state. Subsequent budget reductions, sampling site evaluation, and streamlining of the program reduced the number of stations over the next several years. During the mid-1980s, the number of sampling stations declined to 18. By 1992, the number of sampling stations had dwindled to nine, due to equipment shortages, lack of personnel, and bridge reconstruction at various locations. The Benchmark Sediment Monitoring Program currently consists of 15 sampling sites statewide. Figure 1 shows the number of active sampling stations per water year since the beginning of the sediment monitoring program in 1981.

Water Years 1994 and 1995 brought the restart of one station that had been out of service for several years and the start-up of a new station. The Spoon River at London Mills, which had been out of service for several years, was restarted in Water Year 1994. The Kishwaukee River near Perryville was replaced with the Cache River at Ullin in Water Year 1995. The Cache River at Ullin had several years of sample data from Water Years 1986 to 1990 under a research project

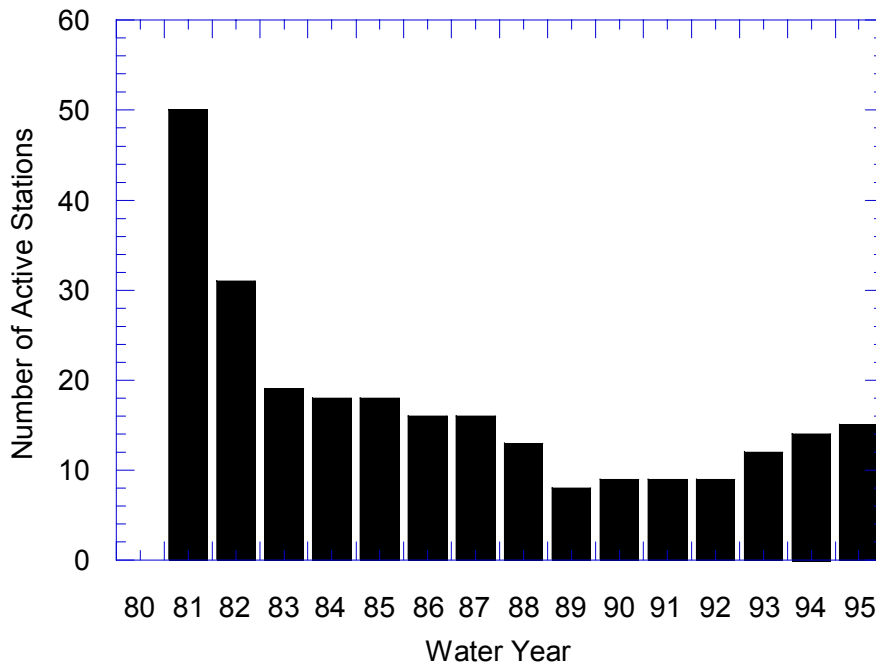


Figure 1. Number of active Benchmark Sediment Monitoring stations

sponsored by the state. This site differs from the rest of the Benchmark Sediment Monitoring Program sites in that it is not a U.S. Geological Survey (USGS) streamgaging station. The ISWS collects and analyzes the streamflow data at this station. A detailed description of the Cache River stations and data can be found in the report, *Cache River Basin: Hydrology, Hydraulics, and Sediment Transport, Volume 1: Background, Data Collection, and Analysis* (Demissie et al., 1990).

Additionally, sampling was temporarily suspended at the Sangamon River at Monticello for Water Year 1995 due to the Department of Transportation bridge reconstruction. Sampling at the Monticello site is scheduled to resume upon completion of the bridge.

Data Collection

The Benchmark Sediment Monitoring Program uses techniques based upon and similar to the sediment data collection techniques developed by the USGS. Detailed descriptions of these techniques can be found in the series *Techniques of Water-Resources Investigations of the U.S. Geological Survey* (Guy, 1969; Guy and Norman, 1970; Porterfield, 1972).

All of the suspended sediment sampling stations, with the exception of the Cache River at Ullin, are located at USGS continuous recording streamgaging stations. The Cache River at Ullin sediment sampling station is located at a continuous streamgaging station maintained by the ISWS. This enables sampling personnel to read the corresponding river stage when they collect a suspended sediment sample. The USGS furnishes the ISWS with updated water discharge rating tables for each station on an annual basis. The ISWS streamgaging station rating table is developed and updated annually by ISWS personnel. Then, during analysis of the sediment data, an instantaneous water discharge can be assigned to each sample based upon the stage of the river at the time of sampling.

Table 1 lists the active Benchmark Sediment Monitoring Program sampling sites for Water Years 1994 and 1995. This table lists the ISWS and USGS identification numbers, the name of each station and the identifying city, the drainage area for each station, and the period of record. Figure 2 depicts the location of each station in Illinois.

Each sampling site is installed on a bridge crossing the river, and consists of a California-style sediment box with a cable-reel and a sediment sampler. Most of the samplers in use on the network are depth-integrated DH 59s. The bridge sampling locations were placed as close to the approximate channel thalweg as possible when the sampling equipment was set up at each site. Single vertical, depth-integrated samples are collected on a weekly basis by local observers, who are paid a small per-sample fee. The observers collect their samples at a time each week that is conducive to their personal schedule. These samples are then collected periodically by ISWS personnel and transported to the ISWS Sediment Laboratory in Champaign.

Most sites also have calibration cross-sectional sampling done on a periodic basis. Cross-sectional sampling consists of a series of samples that are collected at selected intervals across

Table 1. Benchmark Sediment Monitoring Sites, Water Years 1994 and 1995

<i>ISWS ID</i>	<i>Station Name</i>	<i>USGS ID</i>	<i>Drainage area (sq mi)</i>	<i>Period of record (Water Years)</i>
102	Pecatonica R. at Freeport	05435500	1326	1981 - Present
103	Rock R. at Rockton	05437500	6363	1981 - Present
122	Vermilion R. near Leonore	05555300	1251	1984 - Present
123	Mazon R. near Coal City	05542000	455	1981 - Present
124	Kankakee R. near Wilmington	05527500	5150	1983 - Present
125	Kankakee R. at Momence	05520500	2294	1982 - 1985, 1988 - 1990, 1993 - Present
229	Spoon R. at London Mills	05569500	1062	1981 - 1987, 1994 - Present
242	LaMoine R. at Colmar	05584500	655	1981 - 1988, 1993 - Present
245	LaMoine R. at Ripley	05585000	1293	1983 - 1990, 1993 - Present
249	Sangamon R. at Monticello	05572000	550	1981 - 1994
361	Kaskaskia R. at Vandalia	05592500	1904	1981 - 1988, 1990 - Present
367	Silver Creek near Freeburg	05594800	464	1981 - 1988, 1990 - Present
370	Little Wabash R. at Carmi	03381500	3102	1981 - 1985, 1993 - Present
378	Cache R. at Forman	03612000	244	1981 - Present
513	Cache R. at Ullin	N/A	164	1986 - 1989, 1995

the width of the stream. These samples are analyzed individually. The concentrations for all the samples in a cross section are then computed to determine the average sediment concentration for the cross section. These data can then be compared to the single vertical weekly samples to verify that the single vertical samples accurately represent the actual sediment loads in the rivers. In addition, alternate collections of cross sections are composited and analyzed for particle size. The particle size analysis consists of a sand/fine split and is reported as percent finer than 0.0625 millimeters. However, some sites are cross sectioned irregularly, or not all due to a shortage of regional personnel and other time commitments. More detailed information on the sampling and analysis procedures for the sediment monitoring network can be found in the ISWS publication, *Statewide Instream Sediment Monitoring Program for Illinois: Annual Report - Water Year 1981* (Bonini et al., 1983).

Data Analysis

The collected suspended sediment samples are analyzed for concentration and particle size at the ISWS Sediment Laboratory in Champaign. After the analysis has been completed, the sample information and concentrations are screened for quality control. Questionable sample information that cannot be rectified is either discarded or flagged. If no suitable explanation can be deduced for questionable data, the values are marked with an asterisk (*) and left in the data set. Data marked as such should be used cautiously in any further analysis. The abbreviation of the questionable sample component is included in a remarks column adjacent to the information for that particular sample.

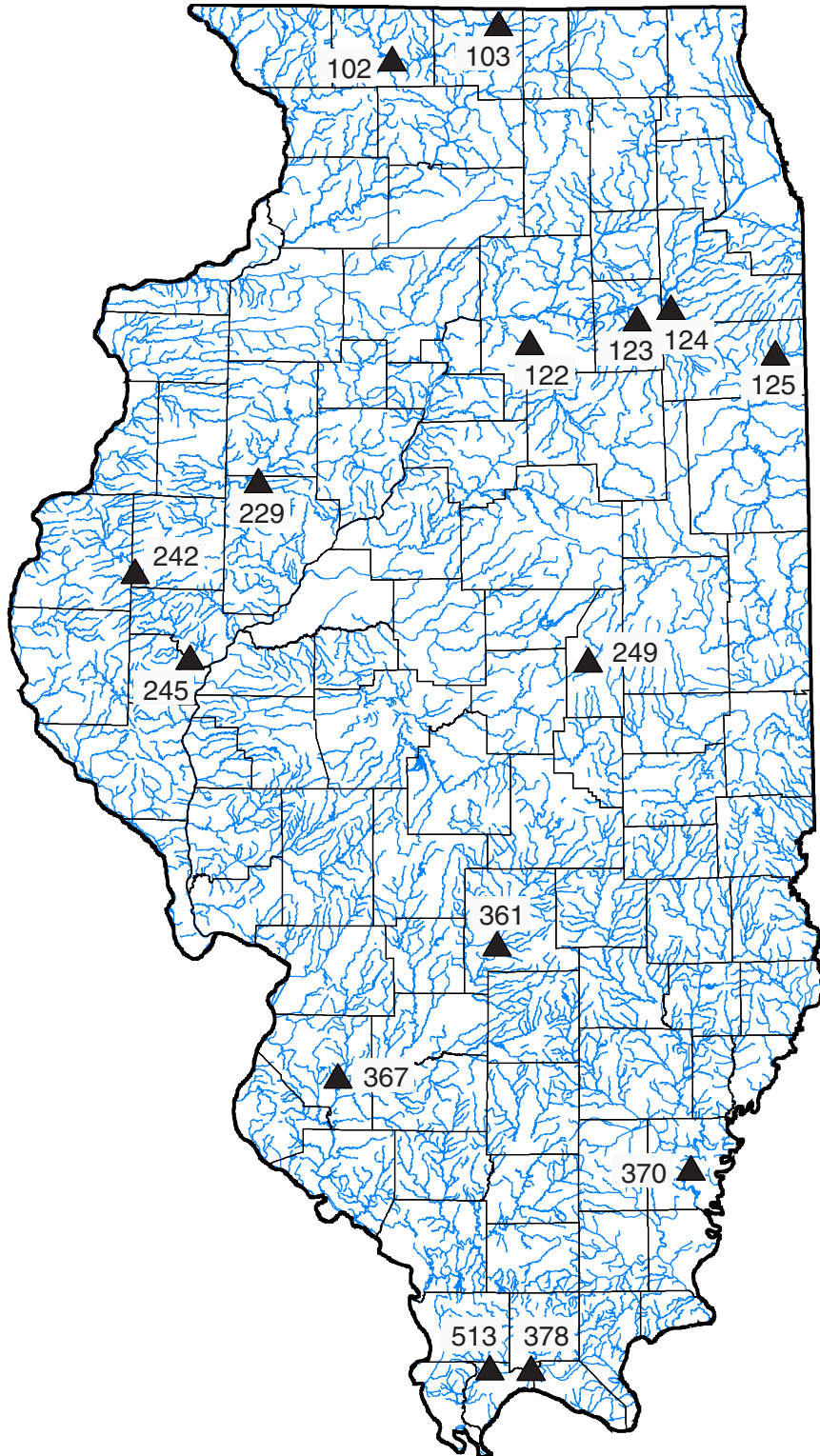


Figure 2. Location of Benchmark Sediment Monitoring stations, Water Years 1994 and 1995

When the samples have been screened for quality control, instantaneous stream discharge is matched with the gage height for each sample. The instantaneous sediment loads are then calculated using the formula:

$$Q_s = C_s (Q_w) K \quad (1)$$

where Q_s is the instantaneous suspended sediment load in tons per day, C_s is the suspended sediment sample concentration in milligrams per liter, Q_w is the instantaneous water discharge in cubic feet per second, and K is a coefficient with a value of 0.0027. After these calculations have been completed, the data are formatted and compiled into data sets for inclusion in appendix A of this report.

Additionally, each data set contains analysis of any particle size samples that were collected during the water year (see appendix B). Appendix C presents graphs of the sediment load versus water discharge for Water Years 1994 and 1995, and appendix D contains graphs of the sediment concentration values over the complete sampling record for each station.

Summary

The ISWS initiated the Benchmark Sediment Monitoring Program in 1981 to monitor and quantify the long-term changes in suspended sediment concentrations and sediment loads in Illinois waterways. The program began with 50 monitoring stations distributed throughout Illinois. During Water Years 1994 and 1995, 15 stations were monitored.

The monitoring program involves the collection of weekly suspended sediment samples by local private citizens. Calibration samples and particle size data are collected by ISWS personnel to supplement the weekly data. The suspended sediment sample concentrations are paired with the instantaneous water discharge for calculation of the instantaneous sediment load (in tons per day).

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Appendix A: Instantaneous Suspended Sediment Measurements

Data Set Parameters

- Gage Ht:*** Gage height, in feet, at the time of sample collection as read from the U.S. Geological Survey or Illinois State Water Survey streamgaging station.
- Temp (°C):*** Water temperature, in degrees Celsius, at the time of sample collection.
- Cs (mg/l):*** Concentration of the collected suspended sediment sample, in milligrams per liter.
- Qw (cfs):*** Instantaneous water discharge of the stream, in cubic feet per second, at the time of sample collection, taken from the U.S. Geological Survey or Illinois State Water Survey stream discharge rating tables.
- Qs (t/d):*** Instantaneous sediment load, in tons per day.
- Remarks:*** Values flagged with an asterisk (*) in this column indicate questionable data. For example, *Cs indicates a questionable suspended sediment concentration.
- :*** A dash (-) in any data column indicates the data are missing for that parameter.

#102 - Pecatonica River at Freeport, IL (USGS #05435500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/06/93	1550	7.71	12	258.80	1678.0	1172.5	
10/22/93	1555	7.02	9	188.26	1519.0	772.1	
10/27/93	1600	6.71	8	173.10	1448.0	676.8	
11/05/93	1540	6.34	4	147.78	1363.0	543.8	
11/19/93	1710	6.08	3	41.28	1304.0	145.3	
12/03/93	1640	6.65	1	77.83	1435.0	301.6	
12/17/93	1550	5.71	2	87.08	1218.0	286.4	
04/11/94	1615	5.21	8	173.23	1103.0	515.9	
04/13/94	1630	5.41	7	142.72	1149.0	442.8	
04/22/94	1710	4.78	13	199.69	1004.0	541.3	
04/26/94	1550	5.23	17	284.11	1108.0	849.9	
05/09/94	1620	4.57	13	173.27	955.5	447.0	
05/15/94	0800	4.21	13	185.12	872.3	436.0	
05/20/94	1115	3.94	16	231.68	809.8	506.6	
05/24/94	0700	3.91	17	259.76	802.8	563.0	
06/04/94	1145	3.59	18	340.36	728.6	669.6	
06/08/94	1630	3.57	18	310.34	723.9	606.6	
06/13/94	1025	3.61	19	233.86	733.2	463.0	
06/14/94	1535	3.77	22	234.67	770.3	488.1	
06/20/94	0710	4.36	23	204.76	907.0	501.4	
06/23/94	1740	4.52	21	223.86	944.0	570.6	
07/02/94	1640	4.15	20	237.68	858.4	550.9	
07/05/94	0710	4.21	20	216.74	872.3	510.5	
07/08/94	0650	4.62	21	210.87	964.8	549.3	
07/15/94	1750	4.57	20	219.83	955.5	567.1	
07/20/94	0700	4.36	19	195.45	907.0	478.6	
07/29/94	1545	3.79	20	201.18	775.0	421.0	
08/05/94	1630	3.57	21	133.49	723.9	260.9	
08/11/94	2015	3.65	16	170.14	742.5	341.1	
08/13/94	2030	4.86	17	237.61	1023.0	656.3	
08/18/94	1600	3.85	19	226.27	788.9	482.0	
08/20/94	1215	6.15	18	255.05	1320.0	909.0	
08/26/94	1600	5.15	21	184.35	1089.0	542.0	
09/02/94	1600	4.04	15	230.33	832.9	518.0	
09/09/94	1545	3.81	17	219.39	779.6	461.8	
09/16/94	1700	3.49	21	244.29	705.4	465.3	
09/23/94	1550	3.61	14	229.05	733.2	453.4	
09/27/94	1550	7.16	12	152.83	1552.0	640.4	

#102 - Pecatonica River at Freeport, IL (USGS #05435500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995							
10/07/94	1210	4.00	12	195.54	823.7	434.9	
10/17/94	1615	3.78	12	158.45	772.7	330.6	
10/28/94	1625	3.65	7	132.52	742.5	265.7	
11/04/94	1615	3.66	7	151.58	744.8	304.8	
11/14/94	1630	4.22	6	154.08	874.6	363.8	
11/27/94	1615	4.63	2	67.56	969.4	176.8	
12/03/94	0900	5.11	1	149.62	1080.0	436.3	
03/10/95	1620	3.36	1	98.40	675.2	179.4	
03/17/95	0925	5.21	7	124.65	1103.0	371.2	
03/27/95	1655	4.87	4	125.85	1025.0	348.3	
04/07/95	1555	4.43	5	154.34	923.2	384.7	
04/11/95	0700	5.00	2	135.53	1055.0	386.0	
04/12/95	1645	7.44	2	127.91	1616.0	558.1	
04/19/95	0700	6.91	7	190.34	1494.0	767.8	
04/21/95	1545	7.31	6	168.31	1586.0	720.7	
04/27/95	0705	7.34	6	234.46	1593.0	1008.4	
05/09/95	0700	8.59	9	318.98	1917.0	1651.0	
05/10/95	1620	11.21	9	187.75	2791.0	1414.8	
05/17/95	0715	9.86	10	211.42	2317.0	1322.6	
05/29/95	1110	9.58	11	210.11	2226.0	1262.8	
05/29/95	1655	6.93	11	306.53	1499.0	1240.6	
06/13/95	0715	6.98	14	429.55	1510.0	1751.3	
06/27/95	0700	4.90	19	288.88	1032.0	804.9	
07/05/95	0655	5.07	16	281.01	1071.0	812.6	
07/18/95	0655	4.36	21	226.29	907.0	554.2	
07/28/95	0650	4.65	20	167.09	974.0	439.4	
08/07/95	0700	4.07	20	170.84	839.9	387.4	
08/09/95	0700	4.01	20	187.03	826.0	417.1	
08/16/95	1635	4.50	22	191.30	939.3	485.2	
08/17/95	1615	4.85	22	130.41	1020.0	359.2	
08/25/95	1645	3.47	22	177.65	700.7	336.1	
08/28/95	1630	3.41	21	172.18	686.8	319.3	
09/07/95	1600	3.59	16	203.62	728.6	400.6	
09/15/95	1615	3.45	16	187.19	696.1	351.8	
09/22/95	0700	3.50	7	161.20	707.7	308.0	
09/29/95	1615	3.25	12	151.07	649.6	265.0	

#103 - Rock River at Rockton, IL (USGS #05437500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/01/93	1430	6.82	18	60.16	9104.0	1478.8	
10/08/93	1430	5.70	17	57.99	6933.0	1085.5	
10/15/93	1500	5.20	15	52.74	6016.0	856.7	
10/22/93	1500	4.85	13	58.53	5394.0	852.4	
10/29/93	1500	4.57	9	58.19	4909.0	771.3	
11/05/93	1500	4.54	13	40.09	4858.0	525.8	
11/12/93	1400	4.30	7	53.81	4453.0	647.0	
11/19/93	1430	4.44	7	19.31	4688.0	244.4	
11/24/93	1300	4.38	7	63.80	4587.0	790.2	
12/03/93	1445	4.79	5	38.10	5289.0	544.1	
12/10/93	1430	4.67	5	67.92	5081.0	931.8	
12/17/93	1000	4.39	4	85.71	4604.0	1065.4	
12/24/93	0730	4.38	1	67.32	4587.0	833.8	
01/11/94	1400	5.57	2	120.45	6692.0	2176.3	
01/21/94	1100	5.74	1	130.38	7008.0	2467.0	
01/28/94	1400	4.55	1	129.23	4875.0	1701.0	
02/04/94	1400	4.59	2	156.20	4943.0	2084.7	
02/11/94	1330	4.54	2	128.66	4858.0	1687.6	
02/18/94	1330	4.32	3	109.93	4487.0	1331.8	
03/04/94	1330	7.56	4	118.75	10620.0	3405.0	
03/11/94	1430	8.96	4	51.68	13640.0	1903.3	
03/18/94	1400	7.33	5	59.44	10140.0	1627.3	
03/25/94	1415	7.16	8	30.95	9792.0	818.3	
04/01/94	0900	6.24	7	36.04	7961.0	774.7	
04/08/94	1500	5.52	9	51.98	6599.0	926.1	
04/15/94	1500	5.17	12	40.00	5962.0	643.9	
04/22/94	1500	4.68	16	41.37	5098.0	569.4	
04/29/94	1500	4.54	14	59.15	4858.0	775.8	
05/06/94	1500	4.26	15	35.21	4387.0	417.1	
05/13/94	1500	3.87	20	36.56	3752.0	370.4	
05/20/94	1400	3.44	21	66.13	3082.0	550.3	
05/27/94	1500	3.15	20	94.11	2651.0	673.6	
06/03/94	1500	3.18	23	138.47	2695.0	1007.6	
06/10/94	1430	2.71	23	178.57	2030.0	978.7	
06/17/94	1430	2.91	30	148.48	2307.0	924.9	
06/24/94	1500	3.65	23	115.75	3405.0	1064.1	
07/01/94	1400	3.68	26	118.13	3452.0	1101.0	
07/08/94	1430	4.70	28	71.12	5133.0	985.7	
07/15/94	1430	4.33	24	58.12	4503.0	706.6	
07/23/94	1400	4.31	23	67.17	4470.0	810.7	
07/29/94	1330	3.66	24	79.95	3421.0	738.5	

#103 - Rock River at Rockton, IL (USGS #05437500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994 (concluded)							
08/05/94	1500	3.93	25	61.51	3848.0	639.1	
08/12/94	1500	3.44	20	67.28	3082.0	559.9	
08/19/94	1430	4.12	25	59.65	4156.0	669.3	
08/26/94	1500	4.35	26	94.50	4537.0	1157.6	
09/02/94	1500	2.98	20	171.84	2406.0	1116.3	
09/09/94	1400	3.21	21	135.65	2739.0	1003.2	
09/16/94	1430	2.95	25	126.75	2364.0	809.0	
09/23/94	1030	3.09	20	81.70	2564.0	565.6	
09/30/94	1500	4.07	18	87.13	4074.0	958.4	
Water Year 1995							
10/07/94	1330	3.67	16	103.37	3436.0	959.0	
10/14/94	1330	3.25	15	59.31	2798.0	448.1	
10/21/94	1430	3.26	17	85.95	2813.0	652.8	
10/28/94	1430	3.29	11	20.05	2857.0	154.7	
11/04/94	1430	3.07	11	128.65	2535.0	880.5	
11/11/94	1430	3.75	10	100.49	3562.0	966.5	
11/18/94	1300	3.52	10	25.42	3204.0	219.9	
11/23/94	1430	3.52	6	108.21	3204.0	936.1	
12/02/94	1500	3.99	5	45.82	3944.0	487.9	
12/09/94	1000	3.77	3	71.15	3593.0	690.2	
12/16/94	1100	3.66	3	112.82	3421.0	1042.1	
12/23/94	0800	3.51	4	111.47	3189.0	959.7	
12/31/94	1400	3.85	4	96.12	3720.0	965.4	
01/06/95	1345	4.15	1	99.63	4205.0	1131.1	
01/13/95	1500	3.57	2	102.80	3281.0	910.6	
01/24/95	1430	3.69	1	80.90	3467.0	757.3	
01/27/95	1500	3.72	4	74.94	3514.0	711.0	
02/03/95	1300	3.67	3	44.05	3436.0	408.7	
02/10/95	1430	3.47	2	72.65	3128.0	613.6	
02/17/95	1330	3.09	3	86.34	2564.0	597.7	
02/24/95	1500	4.13	3	38.42	4172.0	432.8	
03/03/95	1445	3.36	4	13.74	2962.0	109.9	
03/10/95	1500	3.26	6	129.83	2813.0	986.0	
03/17/95	1500	4.46	13	87.44	4722.0	1114.8	
03/24/95	1500	4.98	9	65.73	5623.0	997.9	
03/31/95	1430	4.87	8	52.97	5429.0	776.5	
04/07/95	1515	4.36	10	67.44	4554.0	829.2	
04/14/95	0900	5.02	9	118.17	5694.0	1816.7	
04/21/95	1400	5.19	11	75.82	5998.0	1227.9	
04/28/95	1500	5.91	13	79.81	7329.0	1579.2	

#103 - Rock River at Rockton, IL (USGS #05437500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995 (concluded)							
05/04/95	1300	5.45	15	101.56	6470.0	1774.2	
05/12/95	1515	6.82	16	121.62	9104.0	2989.6	
05/19/95	1500	6.54	17	175.33	8547.0	4046.1	
05/26/95	1500	5.49	19	125.83	6544.0	2223.2	
06/02/95	0800	5.70	20	156.07	6933.0	2921.4	
06/09/95	1000	4.61	19	237.74	4978.0	3195.3	
06/16/95	1330	4.17	25	227.99	4238.0	2608.8	
06/23/95	1500	3.27	28	253.77	2828.0	1937.7	
06/30/95	1500	3.42	25	227.31	3052.0	1873.2	
07/07/95	0800	3.37	21	199.74	2977.0	1605.5	
07/14/95	0800	3.04	28	189.13	2492.0	1272.5	
07/21/95	1430	3.18	27	131.13	2695.0	954.1	
07/28/95	1415	3.21	27	95.18	2739.0	703.9	
08/04/95	1500	3.09	27	117.10	2564.0	810.7	
08/11/95	1400	3.87	28	64.41	3752.0	652.5	
08/18/95	1430	4.73	28	61.90	5185.0	866.5	
08/25/95	1500	4.80	27	53.52	5306.0	766.7	
08/31/95	1430	4.24	28	45.35	4353.0	532.9	
09/08/95	1300	4.05	20	51.61	4042.0	563.2	
09/15/95	0800	3.41	18	52.71	3037.0	432.2	
09/22/95	1500	3.39	15	34.18	3007.0	277.5	
09/29/95	1500	2.97	18	79.31	2392.0	512.2	

#122 - Vermilion River near Leonore, IL (USGS #05555300)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/03/93	1700	16.22	10	158.11	11320.0	4832.5	
10/10/93	1730	11.07	12	165.24	5052.0	2253.9	
10/26/93	1700	7.10	8	165.01	1868.0	832.2	
10/31/93	1500	6.65	7	171.52	1598.0	740.0	
11/07/93	1600	6.03	7	143.21	1265.0	489.1	
11/14/93	1630	7.14	6	162.40	1893.0	830.0	
11/21/93	0800	6.72	3	163.58	1638.0	723.4	
12/04/93	1500	5.60	4	154.98	1022.0	427.7	
12/11/93	1600	5.38	4	143.54	895.7	347.1	
12/13/93	1600	5.35	3	143.19	877.8	339.4	
02/18/94	0930	10.88	1	156.66	4869.0	2059.5	
02/25/94	0800	5.71	3	340.40	1082.0	994.4	
03/05/94	1100	7.14	3	1062.50	1893.0	5430.5	*Cs
03/07/94	0830	13.30	5	460.47	7510.0	9337.0	
03/26/94	1200	4.73	9	126.84	562.7	192.7	
03/27/94	1730	4.77	9	118.11	580.1	185.0	
04/03/94	0900	4.65	9	123.50	529.1	176.4	
04/13/94	1800	13.26	8	922.05	7461	18574.4	
04/23/94	1100	5.44	17	141.60	932.3	356.4	
04/24/94	1200	5.43	17	145.03	926.2	362.7	
05/07/94	1200	6.78	15	152.31	1673.0	688.0	
05/11/94	1130	6.46	16	302.13	1491.0	1216.3	
05/16/94	1400	5.35	19	108.97	877.8	258.3	
05/21/94	2000	4.79	21	145.54	588.9	231.4	
05/22/94	0830	4.77	22	156.27	580.1	244.8	
06/04/94	1200	4.12	22	153.50	303.3	125.7	
06/06/94	0930	4.10	23	139.97	296.1	111.9	
06/18/94	1200	5.87	31	43.82	1173.0	138.8	
06/21/94	1830	3.81	31	135.62	205.7	75.3	
07/03/94	1700	3.11	29	33.43	55.4	5.0	
07/10/94	1600	3.14	27	53.44	60.0	8.7	
07/17/94	1200	3.20	25	47.93	70.0	9.1	
07/24/94	1900	3.78	20	40.00	197.8	21.4	
07/31/94	0730	3.07	25	350.80	49.0	46.4	
08/12/94	0915	5.37	21	250.62	889.7	602.0	
08/20/94	1200	3.31	24	40.13	91.9	10.0	
08/27/94	0900	3.25	26	48.04	79.5	10.3	
08/28/94	1030	3.22	26	135.50	73.7	26.9	
09/05/94	1730	3.14	19	61.58	60.0	10.0	
09/12/94	0700	3.42	18	178.88	115.1	55.6	
09/19/94	0800	3.50	17	137.26	135.0	50.0	
09/25/94	0700	3.58	17	133.33	151.0	54.4	

#122 - Vermilion River near Leonore, IL (USGS #05555300)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995							
10/02/94	1700	3.58	16	12.35	151.0	5.0	
10/13/94	1600	3.53	18	130.94	140.8	49.8	
10/22/94	1200	3.20	14	147.48	70.0	27.9	
10/23/94	1730	3.20	14	233.01	70.0	44.0	
11/05/94	1200	6.48	13	25.41	1502.0	103.0	
11/06/94	0645	8.67	12	882.33	3001.0	7149.3	*Cs
11/17/94	1430	3.97	7	238.20	252.3	162.3	
11/24/94	1300	4.33	7	122.23	388.2	128.1	
12/01/94	1400	4.31	8	149.30	379.4	152.9	
12/04/94	1600	4.57	8	148.19	496.9	198.8	
12/17/94	0800	5.72	4	144.47	1087.0	424.0	
12/24/94	0800	4.94	3	145.58	658.2	258.7	
12/25/94	0830	4.93	3	145.24	653.4	256.2	
01/15/95	0930	14.35	2	623.48	8829.0	14862.7	
01/28/95	1030	6.07	2	138.24	1285.0	479.6	
01/31/95	1330	5.15	3	133.33	765.0	275.4	
02/25/95	1200	4.29	3	33.93	370.7	34.0	
02/27/95	1000	4.40	3	27.16	420.4	30.8	
03/08/95	1257	9.17	2	234.22	3382.0	2138.7	
03/08/95	1220	9.02	2	196.31	3266.0	1731.1	
03/17/95	1000	5.62	13	113.17	1033.0	315.6	
03/24/95	1030	5.51	9	56.00	975.1	147.4	
04/01/95	1230	5.58	8	99.06	1012.0	270.7	
04/07/95	1125	5.58	11	102.04	1012.0	278.8	
04/12/95	0930	17.07	6	458.75	12600.0	15606.6	
04/21/95	1030	8.30	10	97.17	2710.0	711.0	
04/27/95	2000	7.15	11	140.50	1899.0	720.4	
05/04/95	0900	5.78	11	120.34	1121.0	364.2	
05/11/95	1130	13.05	14	274.68	7206.0	5344.2	
05/14/95	1830	19.00	16	2042.66	15470.0	85319.9	*Cs
05/25/95	1830	21.05	13	330.75	19040.0	17002.9	
06/04/95	0745	8.09	18	196.25	2550.0	1351.2	
06/09/95	0945	5.90	19	131.71	1190.0	423.2	
06/09/95	1014	5.89	19	131.63	1184.0	420.8	
06/11/95	1700	5.85	20	111.99	1161.0	351.1	
06/18/95	1545	4.85	26	107.07	616.0	178.1	
06/25/95	1530	4.98	28	135.71	677.7	248.3	
07/02/95	1515	5.63	23	85.32	1038.0	239.1	

#122 - Vermilion River near Leonore, IL (USGS #05555300)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995 (concluded)							
07/09/95	1600	4.52	27	133.37	477.6	172.0	
07/19/95	0700	3.65	25	134.07	166.3	60.2	
07/20/95	1032	3.80	27	83.46	203.1	45.8	
07/20/95	1108	3.80	27	99.79	203.1	54.7	
07/24/95	1500	3.72	30	97.36	182.7	48.0	
07/31/95	1330	3.72	34	90.80	182.7	44.8	
08/07/95	1500	5.16	27	71.09	770.4	147.9	
08/19/95	1910	4.00	30	101.17	261.9	71.5	
08/26/95	0830	3.67	26	42.55	170.8	19.6	
08/31/95	1300	3.43	30	100.36	117.5	31.8	
09/05/95	1028	3.07	25	30.65	49.0	4.1	
09/05/95	1108	3.07	25	31.08	49.0	4.1	
09/08/95	1100	3.04	19	30.72	44.4	3.7	
09/09/95	0945	2.95	22	55.56	32.8	4.9	
09/23/95	0930	2.94	11	87.59	31.8	7.5	
09/30/95	1800	2.93	19	51.16	30.7	4.2	

#123 - Mazon River near Coal City, IL (USGS #05542000)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
05/24/94	1225	1.86	24	116.13	134.7	42.2	
05/31/94	0915	1.68	24	68.27	94.8	17.5	
06/08/94	1300	1.85	20	59.90	132.2	21.4	
06/19/94	1000	1.45	29	40.97	53.2	5.9	
06/26/94	1000	1.45	25	36.45	53.2	5.2	
07/03/94	1000	1.20	23	138.94	22.0	8.3	
07/10/94	0930	1.24	22	79.14	26.1	5.6	
07/17/94	0930	1.38	25	64.86	43.2	7.6	
07/24/94	0930	1.65	25	75.51	88.7	18.1	
07/31/94	0930	1.04	23	39.65	8.0	0.9	
08/07/94	0930	0.92	20	52.55	4.1	0.6	
08/14/94	1000	1.31	22	45.04	34.2	4.2	
08/21/94	1000	1.05	22	35.16	8.4	0.8	
08/28/94	1000	0.90	25	42.93	3.6	0.4	
09/04/94	1000	0.95	21	41.51	4.9	0.5	
09/11/94	1000	0.80	24	178.26	1.9	0.9	
09/18/94	1000	0.80	19	25.00	1.9	0.1	
09/25/94	1000	1.00	16	37.86	6.3	0.6	
Water Year 1995							
10/02/94	1000	1.00	15	16.98	6.3	0.3	
10/09/94	1000	1.00	15	16.90	6.3	0.3	
10/14/94	1000	1.05	17	78.08	8.4	1.8	
10/23/94	1000	1.00	13	80.21	6.3	1.4	
10/30/94	1000	1.00	12	161.06	6.3	2.7	
11/06/94	1000	3.64	13	191.34	851.9	440.1	
11/14/94	1000	2.40	12	117.44	287.9	91.3	
11/20/94	1000	1.85	10	89.66	132.2	32.0	
11/27/94	1500	2.14	11	91.66	210.2	52.0	
12/04/94	1000	2.05	14	206.05	185.3	103.1	
12/11/94	1000	3.65	13	67.58	857.4	156.4	
12/18/94	1000	3.05	15	127.93	552.9	191.0	
12/23/94	1500	2.40	14	120.84	287.9	93.9	
01/15/95	1000	3.00	11	106.98	530.0	153.1	
01/22/95	1000	2.75	11	41.40	418.5	46.8	
01/29/95	1000	2.45	11	87.51	303.8	71.8	
02/05/95	1000	2.35	13	102.31	272.3	75.2	
02/26/95	1000	2.15	13	114.23	213.0	65.7	
03/05/95	1000	2.00	13	113.03	172.0	52.5	
03/08/95	1554	4.53	2	385.15	1395.0	1450.7	
03/08/95	1632	4.45	2	381.10	1342.0	1380.9	

#123 - Mazon River near Coal City, IL (USGS #05542000)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995 (concluded)							
03/12/95	1000	3.85	13	77.17	971.0	202.3	
03/19/95	1000	2.45	12	127.83	303.8	104.9	
03/26/95	1000	2.30	12	92.64	257.0	64.3	
04/02/95	1000	2.20	12	77.82	227.4	47.8	
04/09/95	1000	2.10	12	43.68	199.0	23.5	
04/16/95	1000	2.50	15	54.63	320.0	47.2	
04/23/95	1000	3.00	14	112.63	530.0	161.2	
05/01/95	1000	2.30	18	88.33	257.0	61.3	
05/07/95	1000	2.20	18	79.83	227.4	49.0	
05/14/95	1000	2.45	15	108.70	303.8	89.2	
05/21/95	1000	4.00	15	117.53	1060.0	336.4	
05/28/95	1000	3.10	19	81.37	576.1	126.6	
06/04/95	1000	3.10	19	94.22	576.1	146.5	
06/09/95	1223	2.49	18	88.75	316.7	75.9	
06/09/95	1239	2.50	18	102.52	320.0	88.6	
06/11/95	1000	2.65	20	102.71	377.0	104.5	
06/18/95	1000	2.15	24	88.36	213.0	50.8	
06/24/95	1000	1.95	25	79.43	158.2	33.9	
07/02/95	1000	2.45	21	71.97	303.8	59.0	
07/09/95	1000	1.70	24	34.23	99.0	9.2	
07/16/95	1000	1.10	28	30.51	11.7	1.0	
07/19/95	1000	0.95	29	18.24	4.9	0.2	
07/29/95	1000	0.85	27	20.13	2.7	0.1	
08/05/95	1000	2.20	25	42.37	227.4	26.0	
08/12/95	1000	1.30	28	50.02	33.0	4.5	
08/19/95	1200	0.95	30	21.18	4.9	0.3	
08/26/95	1000	0.90	26	26.77	3.6	0.3	
09/02/95	1000	0.80	21	21.70	1.9	0.1	
09/09/95	1000	0.80	18	16.91	1.9	0.1	*GH
09/16/95	1000	1.64	16	12.86	86.7	3.0	*GH
09/23/95	1000	0.76	14	23.31	1.4	0.1	*GH
09/30/95	1000	0.73	18	6.81	1.0	0.0	*GH

#124 - Kankakee River near Wilmington, IL (USGS #05527500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/03/93	1330	3.12	15	33.89	9733.0	890.6	
10/12/93	1212	3.14	13	50.50	9843.0	1342.1	
10/17/93	1613	6.00	15	227.68	28200.0	17335.6	
02/20/94	1440	5.08	1	154.47	21830.0	9104.6	
03/04/94	1710	2.41	5	9.06	6066.0	148.4	
03/19/94	1430	2.65	6	37.61	7227.0	733.9	
03/27/94	1325	2.33	9	71.87	5700.0	1106.1	
04/04/94	1108	2.24	11	62.79	5300.0	898.5	
04/10/94	1455	2.25	11	54.66	5344.0	788.7	
04/16/94	1015	6.33	11	349.91	30550.0	28862.3	
05/04/94	1547	3.03	16	72.31	9247.0	1805.4	
05/13/94	1040	2.43	16	113.24	6159.0	1883.1	
05/21/94	1215	2.00	21	90.28	4300.0	1048.2	
05/31/94	1357	1.60	24	103.55	2750.0	768.9	
06/06/94	1517	1.40	26	108.48	2105.0	616.5	
06/13/94	0958	1.54	24	115.62	2547.0	795.1	
06/21/94	0950	2.77	27	75.90	7843.0	1607.3	
06/28/94	1523	2.01	27	56.01	4340.0	656.3	
07/05/94	1352	2.18	29	41.86	5041.0	569.7	
07/13/94	1452	2.59	27	53.41	6928.0	999.1	
07/23/94	1133	2.04	27	34.70	4460.0	417.8	
08/01/94	1140	1.41	25	70.73	2135.0	407.7	
08/08/94	1515	1.29	26	75.74	1786.0	365.2	
08/17/94	1540	1.35	26	45.44	1957.0	240.1	
08/24/94	0920	1.27	24	49.56	1731.0	231.6	
08/30/94	1130	1.13	22	65.47	1370.0	242.2	
09/04/94	1207	1.14	20	90.37	1395.0	340.4	
09/10/94	1010	1.06	24	74.26	1205.0	241.6	
09/18/94	1355	0.98	24	50.71	1030.0	141.0	
09/27/94	1022	1.04	17	60.61	1160.0	189.8	
Water Year 1995							
10/05/94	0935	0.95	16	59.34	967.9	155.1	
10/17/94	1034	1.03	17	59.77	1138.0	183.6	
10/26/94	1017	1.01	11	68.29	1094.0	201.7	
11/01/94	1500	1.31	10	82.65	1842.0	411.1	
11/07/94	0927	2.31	12	27.84	5610.0	421.7	
11/14/94	1431	2.45	12	29.97	6253.0	506.0	
11/26/94	1454	1.88	6	73.48	3799.0	753.7	
12/04/94	1401	2.05	8	132.48	4500.0	1609.6	
12/14/94	1022	2.97	2	116.32	8920.0	2801.4	

#124 - Kankakee River near Wilmington, IL (USGS #05527500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995 (concluded)							
12/19/94	1051	2.81	3	114.78	8053.0	2495.7	
12/25/94	1420	2.35	6	114.70	5790.0	1793.1	
01/02/95	1415	2.00	1	111.35	4300.0	1292.7	
01/08/95	1412	2.95	1	127.88	8809.0	3041.5	
01/15/95	1430	4.92	3	286.82	20760.0	16077.1	
01/22/95	1401	4.00	2	53.63	14800.0	2142.9	
02/04/95	1430	2.40	2	113.09	6020.0	1838.2	
02/12/95	1400	3.15	1	144.33	9898.0	3857.1	
02/19/95	1225	2.23	3	108.60	5256.0	1541.1	
02/25/95	1305	1.77	8	88.16	3367.0	801.4	
03/03/95	1600	2.06	4	75.92	4541.0	930.8	
03/10/95	1720	3.94	6	134.16	14440.0	5230.6	
03/21/95	1710	2.67	11	93.50	7328.0	1850.0	
03/26/95	1411	2.29	10	97.58	5520.0	1454.3	
04/01/95	1540	2.31	8	104.90	5610.0	1589.0	
04/08/95	1620	2.09	12	97.81	4664.0	1231.7	
04/16/95	1100	4.60	11	75.48	18640.0	3798.7	
04/22/95	1045	3.82	12	59.85	13730.0	2218.8	
04/28/95	1157	3.30	13	109.49	10740.0	3174.9	
05/08/95	1525	2.42	17	101.65	6112.0	1677.5	
05/22/95	1045	4.14	17	91.45	15610.0	3854.4	
05/31/95	0940	4.88	19	71.69	20490.0	3965.9	
06/18/95	1516	2.03	27	99.34	4420.0	1185.6	
06/24/95	0940	1.68	27	100.70	3032.0	824.3	
06/30/95	0958	3.49	22	241.40	11840.0	7717.0	
07/08/95	1530	2.05	26	93.29	4500.0	1133.5	
07/15/95	1410	1.45	33	89.95	2258.0	548.4	
07/22/95	1158	1.35	32	75.56	1957.0	399.2	
07/29/95	1425	1.38	31	17.23	2045.0	95.1	
08/05/95	0922	3.50	25	195.21	11900.0	6272.2	
08/13/95	1338	1.90	31	40.35	3880.0	422.7	
08/27/95	1246	1.34	29	19.28	1928.0	100.3	
09/08/95	1149	1.09	21	27.34	1275.0	94.1	
09/17/95	1521	1.04	22	66.08	1160.0	207.0	

#125 - Kankakee River at Momence, IL (USGS #05520500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/07/93	1730	2.57	16	93.85	2504.0	634.5	
10/15/93	1330	2.58	12	83.64	2521.0	569.3	
10/18/93	1700	4.91	13	91.52	7257.0	1793.2	
11/05/93	0800	3.41	9	73.29	4050.0	801.4	
11/14/93	1145	2.84	9	87.46	2992.0	706.5	
11/19/93	1600	2.27	7	70.64	2006.0	382.6	
11/28/93	1500	3.60	4	9.16	4417.0	109.2	
12/05/93	1240	3.53	7	36.20	4281.0	418.4	
12/10/93	1100	3.33	6	79.17	3899.0	833.4	
12/20/93	1000	2.93	5	67.73	3164.0	578.6	
12/25/93	1600	3.01	-	97.18	3318.0	870.6	*GH
01/01/94	1625	2.58	1	114.08	2521.0	776.5	
01/09/94	1345	2.70	1	102.36	2734.0	755.6	
03/03/94	1630	2.90	0	43.53	3106.0	365.1	*GH
03/14/94	0945	3.61	7	65.73	4437.0	787.4	*GH
04/04/94	0800	2.55	9	77.07	2469.0	513.8	
04/13/94	1615	3.10	10	34.88	3478.0	327.5	
04/19/94	0700	3.46	14	16.82	4146.0	188.3	
05/09/94	0645	2.57	13	36.12	2504.0	244.2	
05/12/94	1300	2.45	17	36.61	2299.0	227.2	
05/15/94	0930	2.34	16	91.01	2118.0	520.4	
05/24/94	0815	1.99	20	114.18	1586.0	488.9	
06/08/94	1600	1.66	20	121.67	1151.0	378.1	
06/14/94	1700	2.89	25	935.92	3087.0	7800.8	*Cs
06/22/94	0730	2.67	25	68.04	2680.0	492.3	
06/28/94	0800	2.45	20	42.86	2299.0	266.0	
07/06/94	0750	2.78	23	92.21	2880.0	717.0	
07/13/94	0745	2.72	21	43.17	2770.0	322.9	
07/20/94	0745	2.44	22	60.99	2282.0	375.8	
08/01/94	0750	1.86	21	125.51	1407.0	476.8	
08/03/94	0750	1.88	21	98.63	1434.0	381.9	
08/12/94	0725	1.80	18	115.16	1328.0	412.9	
08/22/94	0800	1.88	20	83.90	1434.0	324.8	
09/09/94	0815	1.58	19	105.98	1055.0	301.9	
09/16/94	1535	1.49	23	105.32	950.7	270.3	
09/20/94	1520	1.55	16	101.71	1019.0	279.8	*GH
09/27/94	1500	1.60	15	109.54	1078.0	318.8	*GH

#125 - Kankakee River at Momence, IL (USGS #05520500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995							
10/08/94	1630	1.42	16	97.88	944.7	249.7	
11/08/94	1145	2.48	12	37.43	2702.0	273.0	
11/28/94	1630	2.69	5	53.25	3120.0	448.6	
12/09/94	0810	3.11	5	49.37	3933.0	524.3	*GH
12/21/94	0815	2.92	4	23.63	3568.0	227.7	
01/02/95	1615	2.49	2	66.11	2721.0	485.7	
01/07/95	1430	4.84	0	98.61	7706.0	2051.7	
01/14/95	1635	4.81	2	153.72	7634.0	3168.4	
01/21/95	1015	4.64	2	18.01	7231.0	351.5	
03/08/95	1630	3.40	1	78.39	4500.0	952.4	
03/13/95	1430	3.39	8	42.62	4480.0	515.5	
04/13/95	0800	4.72	-	52.16	7420.0	1045.0	
04/19/95	1640	3.91	-	27.91	5580.0	420.5	
04/24/95	0930	3.54	11	77.91	4793.0	1008.3	
05/03/95	1940	2.79	12	90.05	3311.0	805.1	
05/09/95	0825	2.54	15	95.72	2819.0	728.5	
05/20/95	1500	2.63	17	80.78	2999.0	654.1	
05/25/95	2030	3.58	14	33.35	4877.0	439.2	
05/31/95	1700	3.61	19	20.77	4941.0	277.1	
06/02/95	1330	3.40	19	71.34	4500.0	866.8	
06/10/95	1745	2.61	21	81.85	2960.0	654.1	
06/18/95	1845	2.10	25	80.55	2000.0	435.0	
06/27/95	1825	1.83	23	94.24	1536.0	390.8	
07/04/95	1345	2.52	21	42.39	2779.0	318.1	
07/11/95	1000	1.96	24	59.58	1751.0	281.7	
07/23/95	0900	1.65	23	99.64	1259.0	338.7	*GH
08/03/95	1900	2.91	23	381.58	3549.0	3656.4	
08/09/95	1715	2.82	24	68.00	3370.0	618.7	
08/13/95	1300	2.31	28	88.62	2379.0	569.3	
08/26/95	0920	1.85	25	120.55	1568.0	510.4	
09/01/95	1820	1.57	24	115.64	1145.0	357.5	
09/10/95	1315	1.57	21	126.65	1145.0	391.5	

#229 - Spoon River at London Mills, IL (USGS #05569500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/06/93	1415	5.74	15	169.98	1006.0	461.7	
10/06/93	1455	5.74	17	161.15	1006.0	437.7	
11/22/93	1058	4.44	5	110.95	592.3	177.4	
11/22/93	1158	4.43	5	116.19	589.4	184.9	
12/09/93	1000	5.75	5	180.34	1010.0	491.8	
03/30/94	1403	4.82	7	172.24	704.0	327.4	
03/30/94	1436	4.82	7	141.25	704.0	268.5	
05/13/94	1050	5.67	17	150.67	981.5	399.3	
05/13/94	1132	5.66	18	178.59	978.0	471.6	
09/01/94	1333	2.43	20	44.55	114.1	13.7	
09/01/94	1402	2.44	20	81.56	115.7	25.5	
Water Year 1995							
10/13/94	1024	2.30	13	82.83	93.9	21.0	
10/13/94	1103	2.29	13	68.30	92.4	17.0	
11/02/94	0948	3.20	9	75.49	261.3	53.3	
11/02/94	1013	3.21	9	74.48	263.5	53.0	
11/02/94	1143	3.25	9	85.54	272.3	62.9	
11/09/94	1010	3.00	10	196.04	220.0	116.4	
11/16/94	1143	3.25	8	249.36	272.3	183.3	
11/23/94	1032	4.08	4	206.34	493.3	274.8	
11/30/94	0932	4.10	8	191.74	500.0	258.9	
12/07/94	1209	7.49	8	220.35	1669.0	992.9	
12/14/94	0902	5.67	7	193.19	981.5	512.0	
12/21/94	0832	4.63	7	193.72	647.0	338.4	
12/28/94	1221	4.27	4	197.16	545.2	290.2	
01/04/95	1340	3.56	4	181.35	348.3	170.5	
01/11/95	1417	3.41	2	173.52	306.6	143.6	
01/18/95	1520	5.38	2	226.66	882.4	540.0	
01/25/95	1617	4.94	3	176.29	741.1	352.7	
02/01/95	1202	4.13	1	187.25	507.8	256.7	
02/08/95	1524	3.71	1	212.01	384.8	220.3	
02/15/95	1005	3.92	5	174.30	443.5	208.7	
02/22/95	0930	7.02	6	216.59	1478.0	864.3	
02/22/95	1101	6.99	6	176.21	1466.0	697.5	
03/01/95	1500	5.55	4	166.26	939.9	421.9	
03/07/95	1158	4.84	2	177.96	710.1	341.2	
03/07/95	1230	4.84	2	180.85	710.1	346.7	
03/07/95	1600	4.80	10	247.14	697.9	465.7	
03/15/95	0630	4.77	8	275.08	688.7	511.5	
03/21/95	0800	4.42	8	292.74	586.6	463.7	

#229 - Spoon River at London Mills, IL (USGS #05569500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995 (concluded)							
03/29/95	1300	4.48	8	491.44	603.6	800.9	
04/05/95	1900	3.98	12	303.51	461.1	377.9	
04/12/95	0630	15.58	10	291.51	6093.0	4795.6	
04/19/95	0956	9.75	13	658.82	2718.0	4834.8	
04/19/95	1036	9.67	13	635.53	2678.0	4595.3	
04/25/95	0730	6.35	12	276.49	1224.0	913.8	
05/03/95	0800	6.00	16	281.67	1100.0	836.5	
05/10/95	1600	17.12	18	273.39	7190.0	5307.4	
05/18/95	1630	12.82	18	314.84	4405.0	3744.6	
05/24/95	0730	8.05	18	261.78	1910.0	1350.0	
05/30/95	0800	18.78	20	301.08	8460.0	6877.3	
06/06/95	0900	8.26	22	242.23	2004.0	1310.6	
06/07/95	1823	8.05	23	306.37	1910.0	1579.9	
06/07/95	1852	8.05	23	291.03	1910.0	1500.8	
06/12/95	0905	6.85	27	43.53	1412.0	165.9	
06/14/95	1640	6.07	22	287.01	1124.0	871.0	
06/19/95	1530	5.18	27	57.30	817.0	126.4	
06/21/95	1530	5.17	24	247.21	813.7	543.1	
06/26/95	1000	5.41	28	44.02	892.5	106.1	
06/28/95	1600	6.09	24	246.31	1131.0	752.2	
07/02/95	1730	4.50	27	56.36	609.3	92.7	
07/05/95	0905	5.50	28	297.47	922.8	741.2	
07/09/95	0930	6.44	28	50.43	1257.0	171.1	
07/16/95	1030	4.40	27	95.53	581.0	149.9	
07/19/95	1456	4.34	28	197.24	564.4	300.6	
07/19/95	1536	4.33	28	158.19	561.6	239.9	
07/23/95	1800	4.19	29	71.13	523.7	100.6	
07/31/95	1600	3.65	28	49.73	368.9	49.5	
08/06/95	1530	3.75	28	60.88	395.7	65.0	
08/13/95	1130	3.50	28	57.00	330.8	50.9	
08/21/95	0905	3.38	28	59.96	301.9	48.9	
08/27/95	1600	2.79	27	40.43	177.9	19.4	
09/01/95	1504	2.93	28	67.73	205.5	37.6	
09/01/95	1527	2.92	28	61.89	203.4	34.0	
09/04/95	1505	2.46	27	58.75	119.1	18.9	
09/11/95	1005	2.46	26	51.39	119.1	16.5	
09/18/95	0915	2.31	26	31.68	95.3	8.2	
09/26/95	0800	2.28	26	25.08	91.0	6.2	

#242 - La Moine River at Colmar, IL (USGS #05584500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/04/93	1400	7.12	18	21.45	472.9	27.4	
10/06/93	1115	6.65	15	160.32	406.2	175.8	
10/06/93	1145	6.64	15	68.72	404.8	75.1	
11/04/93	1300	2.30	9	32.78	6.9	0.6	
11/12/93	1300	3.00	7	24.78	33.0	2.2	
11/17/93	1133	6.77	7	26.19	422.7	29.9	
11/17/93	1223	6.77	7	23.07	422.7	26.3	
11/17/93	1300	6.77	10	40.00	422.7	45.7	
11/27/93	1300	4.10	10	31.54	111.1	9.5	
11/28/93	1500	2.00	8	14.71	2.6	0.1	
12/03/93	1400	7.04	8	66.94	461.2	83.4	
12/09/93	1400	8.00	6	74.74	603.4	121.8	
12/13/93	1100	8.17	5	22.59	630.0	38.4	
03/30/94	1100	5.16	7	59.73	217.3	35.0	
03/30/94	1129	5.17	7	90.14	218.4	53.2	
05/11/94	1330	9.10	17	196.53	786.8	417.5	
05/11/94	1413	9.06	17	200.16	779.7	421.4	
09/01/94	1105	3.18	20	84.14	42.4	9.6	
09/01/94	1130	3.17	20	86.55	41.8	9.8	
Water Year 1995							
10/12/94	1150	2.53	13	37.57	11.4	1.2	
10/12/94	1225	2.54	13	47.40	11.7	1.5	
11/02/94	1421	3.54	10	74.89	66.6	13.5	
11/02/94	1445	3.53	10	48.63	66.0	8.7	
11/03/94	1046	3.70	11	79.67	78.0	16.8	
11/12/94	0845	3.00	8	54.81	33.0	4.9	
11/20/94	1445	2.80	8	36.13	22.2	2.2	
12/01/94	1500	3.70	6	164.34	78.0	34.6	
12/07/94	1330	17.24	3	1434.36	2591.0	10034.3	
12/12/94	1300	4.50	1	52.52	148.0	21.0	
12/21/94	1421	4.39	2	23.54	137.1	8.7	
12/28/94	1630	3.78	2	61.71	84.2	14.0	
02/23/95	1230	10.10	6	330.37	964.1	860.0	
03/04/95	1500	6.53	3	65.24	390.0	68.7	
03/07/95	1417	7.95	2	130.34	595.7	209.6	
03/07/95	1455	7.95	2	132.78	595.7	213.6	
03/11/95	1700	6.42	6	57.28	375.6	58.1	
03/18/95	1500	5.57	15	50.49	265.6	36.2	
03/27/95	1700	5.66	10	72.18	277.1	54.0	
04/02/95	1530	4.90	10	65.23	188.8	33.2	

#242 - La Moine River at Colmar, IL (USGS #05584500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995 (concluded)							
04/09/95	1430	15.95	10	1963.74	2190.0	11611.6	
04/15/95	1700	11.81	14	290.73	1300.0	1020.4	
04/19/95	1218	18.23	14	480.33	2986.0	3872.5	
04/19/95	1249	18.15	14	466.30	2953.0	3717.9	
04/23/95	1230	8.09	12	110.93	617.4	184.9	
05/01/95	1100	7.30	12	79.91	500.0	107.9	
05/07/95	1500	6.15	18	49.34	341.3	45.5	
05/14/95	1500	17.90	18	1125.24	2851.0	8661.8	
05/21/95	1300	18.84	16	157.88	3338.0	1422.9	
05/28/95	1845	21.04	16	293.86	5731.0	4547.0	
06/05/95	1940	8.21	20	137.80	636.4	236.8	
06/07/95	1548	7.61	22	127.94	544.6	188.1	
06/07/95	1620	7.62	22	124.70	546.0	183.8	
06/11/95	1730	6.87	19	103.27	436.7	121.8	
06/18/95	1730	5.39	26	66.17	243.7	43.5	
06/25/95	1715	5.40	25	219.27	244.9	145.0	
07/02/95	1730	6.05	23	131.19	329.0	116.5	
07/09/95	1530	7.65	24	180.15	550.5	267.8	
07/16/95	1250	5.11	29	246.69	211.8	141.1	
07/19/95	1248	4.69	26	174.46	166.6	78.5	
07/19/95	1316	4.69	26	120.02	166.6	54.0	
07/23/95	1000	4.97	25	117.45	196.6	62.3	
07/30/95	0930	4.04	27	72.71	106.2	20.8	
08/06/95	1230	4.08	26	441.64	109.5	130.6	
08/13/95	1215	5.93	28	182.54	313.2	154.4	
08/20/95	1530	4.24	28	230.10	123.2	76.5	
08/27/95	1500	3.38	29	526.36	55.1	78.3	
09/01/95	1248	3.07	26	84.51	36.4	8.3	
09/01/95	1314	3.07	26	111.47	36.4	11.0	
09/04/95	1825	2.94	25	102.75	29.4	8.2	
09/10/95	1515	3.20	20	82.54	43.6	9.7	
09/17/95	1900	2.85	20	415.84	24.6	27.6	
09/24/95	1650	2.91	14	87.42	27.7	6.5	

#245 - La Moine River at Ripley, IL (USGS #05585000)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/05/93	0830	11.40	10	5.83	1321.0	20.8	*Cs
10/07/93	1105	9.55	15	71.56	795.7	153.7	
10/07/93	1150	9.55	16	52.43	795.7	112.6	
10/12/93	0830	10.22	10	0.72	976.9	1.9	*Cs
10/19/93	0815	9.45	10	35.36	769.7	73.5	
10/26/93	0800	9.16	5	0.78	697.7	1.5	*Cs
11/02/93	0900	10.11	-	0.32	948.2	0.8	*Cs
11/09/93	0810	9.45	-	4.79	769.7	10.0	*Cs
11/16/93	0815	9.14	-	5.07	692.9	9.5	*Cs
11/16/93	1340	11.53	8	111.30	1363.0	409.6	
11/16/93	1425	11.45	8	111.23	1337.0	401.5	
11/23/93	0800	9.50	-	12.13	782.6	25.6	*Cs
11/30/93	0810	9.60	-	17.92	808.9	39.1	*Cs
12/07/93	0810	9.42	-	42.42	762.1	87.3	
12/14/93	0815	9.45	-	0.00	769.7	0.0	*Cs
12/20/93	0800	5.10	-6	80.51	42.0	9.1	
12/28/93	0810	6.35	5	73.28	167.8	33.2	
01/04/94	0810	6.40	-8	72.58	174.1	34.1	
01/11/94	0800	5.35	-6	70.25	61.7	11.7	
01/18/94	0810	6.10	0	72.80	137.1	26.9	
01/25/94	0815	6.15	0	69.57	143.5	27.0	
02/01/94	0720	6.22	-6	72.86	152.3	30.0	
02/08/94	0800	6.14	-6	75.59	142.2	29.0	
02/15/94	0815	6.12	5	79.16	139.6	29.8	
02/22/94	0720	6.40	5	98.20	174.1	46.2	
03/01/94	0800	7.10	10	78.76	279.7	59.5	
03/08/94	0800	7.12	6	76.51	282.7	58.4	
03/15/94	0700	7.20	0	71.20	294.9	56.7	
03/22/94	0800	7.22	2	80.53	298.0	64.8	
03/29/94	0800	7.40	4	72.86	327.3	64.4	
03/29/94	1315	7.67	9	52.43	375.0	53.1	
03/29/94	1405	7.64	9	31.58	369.4	31.5	
04/05/94	0800	8.10	6	70.96	459.2	88.0	
04/12/94	0800	8.14	7	76.42	467.1	96.4	
04/19/94	0800	8.22	4	76.79	483.1	100.2	
04/26/94	0800	8.40	4	82.72	520.5	116.2	
05/02/94	0720	8.36	4	83.79	512.0	115.8	
05/10/94	1208	19.81	15	202.96	5430.0	2975.6	
05/10/94	1247	19.81	15	185.16	5430.0	2714.6	
08/31/94	1510	6.07	22	197.78	133.5	71.3	
08/31/94	1548	6.08	22	210.53	134.7	76.6	

#245 - La Moine River at Ripley, IL (USGS #05585000)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995							
10/11/94	1155	4.58	13	122.43	23.4	7.7	
10/11/94	1247	4.55	14	113.89	21.3	6.6	
10/17/94	0800	12.10	26	72.83	1737.0	341.6	
10/24/94	0815	12.22	22	68.43	1782.0	329.2	
10/31/94	0700	12.16	24	67.83	1759.0	322.2	
11/01/94	1404	5.38	10	74.84	96.0	19.4	
11/01/94	1444	5.38	10	72.40	96.0	18.8	
11/07/94	0800	11.65	22	58.28	1577.0	248.1	
11/14/94	0820	11.60	26	67.49	1560.0	284.3	
11/21/94	0800	11.62	24	794.75	1567.0	3362.5	
11/28/94	0715	11.54	24	174.69	1539.0	725.9	
12/05/94	0800	10.60	18	95.85	1232.0	318.8	
12/12/94	0700	10.54	10	79.60	1213.0	260.7	
12/19/94	0800	10.60	6	75.06	1232.0	249.7	
12/26/94	0800	11.05	12	157.99	1376.0	587.0	
01/02/95	0815	11.18	8	162.82	1418.0	623.4	
01/16/95	0800	10.62	4	174.29	1238.0	582.6	
01/23/95	0815	10.60	4	202.93	1232.0	675.0	
01/30/95	0800	10.56	2	75.21	1219.0	247.5	
02/06/95	0815	10.68	8	220.68	1257.0	749.0	
02/13/95	0700	11.06	12	169.48	1379.0	631.0	
02/20/95	0715	10.64	14	154.59	1244.0	519.2	
02/27/95	0820	10.58	12	151.78	1225.0	502.0	
03/06/95	0800	10.65	14	169.50	1247.0	570.7	
03/07/95	0800	8.85	20	56.84	740.7	113.7	
03/07/95	1618	10.93	2	232.95	1337.0	840.9	
03/07/95	1702	10.96	2	238.99	1346.0	868.6	
03/14/95	0810	8.95	15	54.74	765.9	113.2	
03/21/95	0800	8.34	18	68.86	617.3	114.8	
03/28/95	0820	9.17	20	64.60	822.5	143.5	
04/04/95	0815	9.20	20	68.73	830.4	154.1	
04/11/95	0800	9.14	21	54.50	814.7	119.9	
04/18/95	0745	8.95	18	57.26	765.9	118.4	
04/19/95	1410	18.32	16	813.24	4883.0	10721.8	
04/19/95	1448	18.32	16	841.24	4883.0	11091.0	
04/25/95	0745	10.12	19	70.68	1085.0	207.1	
05/02/95	0800	11.95	22	65.37	1682.0	296.9	
05/09/95	0815	13.74	19	59.03	2389.0	380.7	
05/16/95	0800	14.90	20	65.75	2915.0	517.5	
05/23/95	0745	14.28	19	57.14	2626.0	405.1	
05/30/95	0800	13.65	18	98.97	2351.0	628.2	

#245 - La Moine River at Ripley, IL (USGS #05585000)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995 (concluded)							
06/05/95	0745	13.10	20	65.46	2124.0	375.4	
06/07/95	1306	14.65	24	136.18	2797.0	1028.4	
06/07/95	1348	14.63	24	139.88	2788.0	1053.0	
06/12/95	0815	13.19	20	66.24	2160.0	386.3	
06/19/95	0800	9.20	22	65.66	830.4	147.2	
06/26/95	0800	8.95	20	55.54	765.9	114.9	
07/04/95	0815	8.90	24	55.48	753.2	112.8	
07/11/95	0800	8.95	28	76.67	765.9	158.5	
07/17/95	0810	8.34	20	135.45	617.3	225.7	
07/19/95	1011	7.33	26	72.81	400.8	78.8	
07/19/95	1103	7.31	26	85.02	396.9	91.1	
07/24/95	0800	8.15	28	167.60	573.6	259.6	
07/31/95	0745	8.25	24	137.72	596.4	221.8	
08/07/95	0800	9.32	26	113.30	862.0	263.7	
08/14/95	0815	9.26	26	154.67	846.1	353.3	
08/21/95	0800	9.22	28	406.43	835.6	917.0	
08/28/95	0810	8.42	32	143.09	636.1	245.8	
09/01/95	1029	5.77	25	154.85	143.6	60.0	
09/01/95	1124	5.77	25	217.68	143.6	84.4	
09/04/95	0800	8.36	30	150.40	622.0	252.6	
09/11/95	0745	8.07	24	102.67	555.6	154.0	
09/18/95	0745	8.05	30	90.03	551.1	134.0	
09/25/95	0800	7.89	20	450.99	516.1	628.4	

#249 - Sangamon River at Monticello, IL (USGS # 05572000)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/01/93	1000	11.28	15	154.79	1511.0	631.5	
10/14/93	1000	10.27	13	149.84	1003.0	405.8	
10/19/93	1700	15.04	15	64.91	5801.0	1016.7	
10/29/93	1300	9.74	11	142.30	819.6	314.9	
11/05/93	1330	8.21	9	152.90	485.7	200.5	
11/10/93	1000	7.50	6	148.89	367.5	147.7	
11/19/93	0915	12.31	8	38.14	2213.0	227.9	
12/02/93	1015	10.91	7	137.90	1307.0	486.6	
12/09/93	0945	10.62	6	132.31	1161.0	414.8	
12/17/93	1445	9.83	7	127.38	844.6	290.5	
01/07/94	0845	7.12	0	146.49	307.2	121.5	
02/24/94	1515	7.76	2	84.69	409.0	93.5	
03/03/94	0945	6.43	2	120.01	211.6	68.6	
03/10/94	0945	12.05	4	35.83	2011.0	194.5	
03/18/94	0930	8.04	6	118.99	456.0	146.5	
04/20/94	0900	11.56	14	182.11	1679.0	825.6	
04/29/94	1100	12.05	12	236.90	2011.0	1286.3	
05/05/94	0945	10.16	14	174.11	957.2	450.0	
05/10/94	1230	11.44	13	82.01	1606.0	355.6	
05/20/94	1400	7.90	18	155.65	432.2	181.6	
05/25/94	0930	7.70	21	163.80	399.2	176.6	
06/03/94	1045	6.69	18	157.06	245.6	104.1	
06/17/94	1030	6.11	27	176.35	173.3	82.5	
06/21/94	1645	5.86	29	159.54	145.4	62.6	
06/30/94	1000	5.44	24	140.62	103.6	39.3	
07/08/94	0945	8.53	26	211.50	544.0	310.6	
07/15/94	1130	5.05	25	113.73	72.6	22.3	
07/29/94	1120	4.45	22	94.33	34.2	8.7	
09/02/94	1030	4.33	18	92.13	27.1	6.7	
Water Year 1995							
10/05/94	1000	4.08	16	114.77	11.9	3.7	

#361 - Kaskaskia River at Vandalia, IL (USGS #05592500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/09/93	1750	10.40	15	157.00	2575.0	1091.5	
10/17/93	1722	11.39	16	690.20	3046.0	5676.3	
10/24/93	1637	9.73	15	140.34	2278.0	863.2	
10/31/93	1704	9.57	10	107.27	2210.0	640.1	
11/07/93	1655	9.70	9	698.71	2265.0	4273.0	*Cs
11/10/93	1356	9.63	11	57.26	2235.0	345.5	
11/13/93	1400	17.20	11	577.64	6655.0	10379.3	
11/21/93	1551	14.93	8	141.99	4995.0	1914.9	
12/03/93	1200	17.24	7	288.73	6687.0	5213.0	
12/11/93	1506	13.90	6	90.36	4974.0	1213.5	
12/17/93	1355	13.90	7	86.08	4974.0	1156.0	
12/21/93	1325	14.26	5	72.86	4553.0	895.7	
12/21/93	1359	14.26	5	74.36	4553.0	914.1	
12/26/93	1555	13.77	4	82.67	4258.0	950.4	
01/02/94	1653	13.56	3	151.57	4135.0	1692.2	
01/13/94	1355	13.74	1	69.14	4241.0	791.7	
01/21/94	1700	14.74	0	26.72	4864.0	350.9	
01/28/94	0845	22.48	0	239.66	12950.0	8379.7	
02/04/94	1540	15.22	2	94.22	5199.0	1322.6	
02/13/94	1745	9.84	2	84.64	2326.0	531.6	
02/16/94	1345	9.00	6	90.50	1972.0	481.9	
02/16/94	1417	8.99	6	93.56	1967.0	496.9	
02/18/94	1510	8.47	7	102.07	1760.0	485.0	
02/26/94	1540	9.80	3	88.62	2309.0	552.5	
03/04/94	1639	6.77	7	131.22	1134.0	401.8	
03/11/94	1007	5.63	6	97.35	786.6	206.8	
03/18/94	1800	9.53	7	63.77	2193.0	377.6	
03/25/94	1640	7.67	11	54.68	1453.0	214.5	
03/31/94	1020	6.50	9	73.11	1047.0	206.7	
04/06/94	1137	5.23	8	31.76	677.7	58.1	
04/06/94	1221	5.23	8	19.67	677.7	36.0	
04/07/94	1033	6.23	11	101.63	962.5	264.1	
04/22/94	1806	14.56	14	149.76	4741.0	1917.0	
05/07/94	1550	16.75	14	115.28	6295.0	1959.4	
05/12/94	1905	16.51	18	116.33	6108.0	1918.5	
05/20/94	1325	9.90	20	117.61	2352.0	746.9	
05/20/94	1354	9.91	20	106.64	2357.0	678.6	
05/20/94	1545	9.00	-	106.09	1972.0	564.9	
05/29/94	1645	8.37	-	105.04	1721.0	488.1	
06/05/94	1914	8.16	-	144.74	1640.0	640.9	
06/13/94	1613	15.85	-	1608.46	5641.0	24498.0	*Cs

#361 - Kaskaskia River at Vandalia, IL (USGS #05592500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994 (concluded)							
06/20/94	1550	7.05	26	227.75	1228.0	755.1	
06/27/94	1630	6.73	24	386.05	1121.0	1168.5	
07/06/94	1341	6.14	-	118.47	935.0	299.1	
07/06/94	1424	6.14	-	116.39	935.0	293.8	
07/06/94	1635	6.11	28	224.55	926.0	561.4	
07/15/94	1700	6.00	28	206.08	893.0	496.9	
07/29/94	1600	4.43	24	125.85	478.0	162.4	
08/06/94	1605	3.15	25	220.24	219.1	130.3	
08/14/94	0940	2.87	27	112.24	173.5	52.6	
08/18/94	1338	2.85	27	79.78	170.5	36.7	
08/18/94	1411	2.85	-	69.79	170.5	32.1	
08/21/94	1251	2.75	23	135.52	155.3	56.8	
08/28/94	1755	2.57	27	90.97	129.6	31.8	
09/05/94	1815	2.67	20	63.16	143.7	24.5	
09/11/94	1725	2.58	21	76.35	131.0	27.0	
09/26/94	1525	2.71	25	41.41	149.5	16.7	
Water Year 1995							
10/03/94	1450	2.50	24	29.43	120.1	9.5	
10/12/94	1615	2.55	20	24.48	126.8	8.4	
10/13/94	1342	2.55	16	22.36	126.8	7.7	
10/13/94	1425	2.55	-	24.48	126.8	8.4	
10/23/94	1635	2.49	17	72.64	118.7	23.3	
10/31/94	1055	2.47	13	84.84	116.1	26.6	
11/08/94	1510	3.96	14	162.77	373.7	164.2	
12/03/94	1513	6.52	-	131.44	1053.0	373.7	
12/22/94	1210	8.78	6	105.56	1882.0	536.4	
01/12/95	1140	3.96	4	53.16	373.7	53.6	
01/25/95	1342	10.55	2	114.90	2643.0	819.9	
01/25/95	1416	10.54	2	108.26	2639.0	771.4	
03/16/95	1322	10.96	10	235.35	2837.0	1802.7	
03/16/95	1349	10.96	10	238.50	2837.0	1826.9	
05/03/95	1329	6.43	13	75.96	1025.0	210.2	
05/03/95	1353	6.42	13	77.14	1021.0	212.7	
06/07/95	1327	6.81	24	148.11	1147.0	458.7	
06/07/95	1353	6.81	24	133.67	1147.0	414.0	
06/14/95	1342	7.28	22	166.99	1309.0	590.2	
06/28/95	1329	10.09	22	225.97	2436.0	1486.2	
07/13/95	1311	9.06	26	134.33	1996.0	723.9	
07/18/95	1315	8.61	25	174.18	1815.0	853.6	
07/18/95	1344	8.59	25	147.73	1807.0	720.8	

#361 - Kaskaskia River at Vandalia, IL (USGS #05592500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995 (concluded)							
07/31/95	1330	8.19	27	172.86	1652.0	771.0	
08/16/95	1333	7.37	28	126.43	1342.0	458.1	
08/24/95	1158	7.87	27	164.86	1530.0	681.0	
08/24/95	1315	7.87	27	173.10	1530.0	715.1	
08/24/95	1320	7.87	27	175.05	1530.0	723.1	
08/29/95	0955	7.17	27	163.82	1270.0	561.7	
09/04/95	1520	6.46	28	986.05	1034.0	2752.9	
09/06/95	1309	6.43	25	139.02	1025.0	384.7	
09/06/95	1334	6.43	25	137.15	1025.0	379.6	
09/13/95	1345	5.27	25	139.51	688.3	259.3	
09/19/95	1010	3.63	20	91.79	306.8	76.0	
09/26/95	1130	2.86	16	122.92	172.0	57.1	

#367 - Silver Creek near Freeburg, IL (USGS #05594800)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/07/93	1800	3.43	14	199.58	298.1	160.6	
10/12/93	1700	1.65	12	63.16	100.2	17.1	
10/21/93	1200	1.27	14	304.08	67.3	55.3	
10/26/93	1900	1.00	7	72.61	47.0	9.2	
11/03/93	2100	3.00	7	18.04	245.0	11.9	
11/10/93	1030	1.48	7	9.83	84.8	2.2	
11/10/93	1054	1.48	7	9.04	84.8	2.1	
11/22/93	1500	9.54	4	75.70	1413.0	288.8	
11/29/93	1300	10.60	-1	88.00	1676.0	398.2	
12/08/93	1200	9.76	2	60.20	1464.0	238.0	
12/15/93	1100	3.35	2	27.53	287.9	21.4	
12/21/93	1025	2.60	5	16.81	198.2	9.0	
12/21/93	1056	2.60	5	16.41	198.2	8.8	
12/21/93	1200	2.68	1	18.66	207.3	10.4	
12/28/93	1500	2.10	-4	14.60	145.0	5.7	
01/07/94	1200	2.02	-4	15.90	137.0	5.9	
01/12/94	1200	2.00	-1	12.95	135.0	4.7	
01/25/94	1200	8.17	-1	319.47	1089.0	939.3	
02/04/94	1700	3.40	-1	54.78	294.2	43.5	
02/10/94	1500	2.07	-2	18.14	142.0	7.0	
02/16/94	1058	2.05	4	12.23	140.0	4.6	
02/16/94	1120	2.05	4	12.48	140.0	4.7	
02/17/94	1200	2.05	3	23.01	140.0	8.7	
02/25/94	1200	2.47	0	59.98	183.7	29.7	
03/01/94	1200	2.86	-1	51.55	228.3	31.8	
03/10/94	1400	2.40	4	17.95	176.2	8.5	
03/18/94	0800	2.86	7	19.62	228.3	12.1	
03/25/94	1200	1.52	10	40.50	88.3	9.7	
04/01/94	1000	1.95	8	35.09	129.8	12.3	
04/07/94	1200	2.70	4	26.83	209.6	15.2	
04/12/94	1200	18.54	7	385.51	6547.0	6814.6	
04/19/94	0800	9.10	16	207.17	1312.0	733.9	
04/28/94	0800	5.25	16	1186.72	550.5	1763.9	*Cs
05/02/94	0800	19.50	7	211.11	7697.0	4387.3	
05/17/94	0800	2.05	16	105.08	140.0	39.7	*Cs
05/20/94	1047	1.90	20	67.11	124.7	22.6	
05/20/94	1110	1.90	69	69.45	124.7	23.4	
06/01/94	0900	1.46	19	68.28	83.1	15.3	
06/07/94	1000	1.29	21	99.53	68.9	18.5	
06/16/94	1800	1.30	22	175.38	69.8	33.0	
06/20/94	1800	1.58	24	224.77	93.7	56.9	

#367 - Silver Creek near Freeburg, IL (USGS #05594800)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994 (concluded)							
06/25/94	1200	6.70	20	1240.98	784.3	2627.9	*Cs
07/05/94	0800	2.64	21	219.88	202.7	120.3	
07/06/94	1044	1.32	21	102.20	71.4	19.7	
07/06/94	1108	1.32	21	112.66	71.4	21.7	
07/11/94	0800	1.73	21	126.31	107.9	36.8	
07/15/94	0800	3.41	22	427.56	295.5	341.1	
07/22/94	1000	0.85	23	61.88	35.7	6.0	
08/09/94	1100	0.40	24	62.60	10.2	1.7	
08/15/94	0800	0.48	18	59.08	13.9	2.2	
08/22/94	0800	0.52	22	80.98	15.9	3.5	
08/30/94	1000	1.26	21	108.99	66.5	19.6	
09/06/94	1000	0.41	18	50.59	10.6	1.5	
09/12/94	0800	0.25	16	94.83	4.4	1.1	
09/24/94	0800	0.67	13	49.32	24.2	3.2	
09/27/94	0800	1.22	10	199.93	63.4	34.2	
Water Year 1995							
10/06/94	1400	0.43	16	58.50	11.5	1.8	
10/10/94	0900	1.15	10	134.75	58.0	21.1	
10/13/94	1024	0.45	14	33.23	12.5	1.1	
10/13/94	1050	0.45	-	31.68	12.5	1.1	
10/21/94	0900	1.00	13	65.74	47.0	8.3	
10/27/94	0900	0.41	7	24.69	10.6	0.7	
11/02/94	0900	0.55	10	17.63	17.5	0.8	
11/07/94	0800	7.00	12	381.01	840.0	864.1	
11/10/94	1400	4.19	12	537.18	397.4	576.4	
11/15/94	1200	1.65	10	100.91	100.2	27.3	
11/28/94	1700	2.94	10	272.43	237.8	174.9	
12/09/94	1630	1.11	5	19.81	55.0	2.9	
12/14/94	0900	1.21	3	61.88	62.6	10.5	
12/19/94	1000	2.72	2	91.36	211.9	52.3	
01/04/95	0900	1.00	-1	8.84	47.0	1.1	
01/11/95	1400	1.28	4	22.01	68.1	4.1	
01/16/95	0900	8.51	2	478.00	1170.0	1510.0	
01/25/95	0900	3.65	-1	79.43	326.1	69.9	
01/25/95	1039	3.60	1	74.14	319.7	64.0	
01/25/95	1106	3.58	1	76.72	317.1	65.7	
02/02/95	0800	3.50	2	70.37	307.0	58.3	
02/10/95	0900	3.40	1	58.25	294.2	46.3	
02/16/95	0900	3.15	2	47.64	263.1	33.8	
02/21/95	1200	2.20	6	16.61	155.2	7.0	

#367 - Silver Creek near Freeburg, IL (USGS #05594800)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995 (concluded)							
02/28/95	1200	4.31	6	689.11	413.8	769.9	
03/07/95	1700	9.91	4	2350.25	1499.0	9512.2	
03/16/95	1021	3.38	15	159.78	291.7	125.8	
03/16/95	1050	3.37	15	152.68	290.5	119.8	
03/17/95	1300	2.90	16	118.53	233.0	74.6	
03/21/95	1200	2.10	16	103.08	145.0	40.4	
03/28/95	1200	4.93	11	277.29	501.7	375.6	
04/06/95	1600	1.93	16	29.57	127.8	10.2	
04/13/95	1100	1.80	13	28.63	114.7	8.9	
04/18/95	1200	2.22	21	58.14	157.2	24.7	
04/24/95	1700	4.24	16	186.62	404.2	203.7	
05/03/95	1015	4.90	12	231.94	497.3	311.4	
05/03/95	1033	4.87	12	220.19	493.0	293.1	
05/03/95	1101	4.85	12	212.53	490.1	281.2	
05/11/95	1300	9.10	17	356.12	1312.0	1261.5	
05/15/95	0900	10.10	19	190.64	1546.0	795.8	
05/22/95	0900	21.07	20	77.34	9681.0	2021.4	
05/27/95	1100	13.69	19	105.20	2629.0	746.7	
06/07/95	1022	6.46	24	156.23	741.7	312.9	
06/07/95	1053	6.44	24	156.74	738.5	312.5	
06/09/95	2000	4.27	24	101.10	408.3	111.5	
06/19/95	0900	4.57	27	1369.46	449.9	1663.5	
06/26/95	0900	7.23	22	2025.55	886.6	4848.8	
07/03/95	0900	3.13	21	167.00	260.7	117.5	
07/12/95	1000	1.40	27	75.47	78.0	15.9	
07/18/95	1016	1.10	28	64.84	54.3	9.5	
07/18/95	1038	1.10	28	61.53	54.3	9.0	
07/19/95	1130	1.00	27	249.65	47.0	31.7	
07/26/95	1200	0.93	28	123.97	41.3	13.8	
08/06/95	1600	4.60	27	302.64	454.1	371.1	
08/12/95	1500	1.74	30	62.42	108.8	18.3	
08/18/95	1500	1.16	31	36.27	58.8	5.8	
08/25/95	1800	0.83	27	85.60	34.4	8.0	
09/02/95	1000	0.56	23	62.20	18.0	3.0	
09/06/95	1012	0.50	22	40.48	14.9	1.6	
09/06/95	1030	0.50	22	34.23	14.9	1.4	
09/09/95	1800	0.46	21	33.49	12.9	1.2	
09/15/95	1800	0.51	22	36.74	15.4	1.5	
09/22/95	1700	0.44	21	28.41	12.0	0.9	
09/29/95	1700	0.36	21	41.79	8.4	1.0	

#370 - Little Wabash River at Carmi, IL (USGS #03381500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/06/93	1600	22.62	27	59.69	8884.0	1431.8	
10/13/93	1430	14.07	16	61.33	4510.0	746.8	
10/21/93	1600	10.48	11	142.40	2980.0	1145.8	
10/28/93	1400	7.78	11	79.48	1874.0	402.2	
11/04/93	1430	3.63	12	29.11	442.8	34.8	
11/09/93	1430	4.27	8	337.21	629.9	573.5	
11/12/93	1046	3.22	9	16.62	334.9	15.0	
11/12/93	1114	3.22	9	15.02	334.9	13.6	
11/15/93	1400	27.00	5	332.42	12430.0	11156.3	
11/24/93	1400	30.64	5	192.67	16610.0	8640.7	
11/30/93	1430	31.38	1	38.52	18260.0	1899.1	
12/07/93	1430	29.76	5	54.09	15540.0	2269.5	
12/16/93	1430	20.43	0	69.69	7573.0	1425.0	
12/22/93	1034	12.01	5	61.69	3624.0	603.6	
12/22/93	1111	11.86	5	67.08	3560.0	644.8	
12/23/93	1430	5.91	-6	26.53	1182.0	84.7	
12/28/93	1400	5.95	-7	21.82	1197.0	70.5	
01/06/94	1400	4.39	0	15.17	666.7	27.3	
01/13/94	1200	6.57	-2	18.60	1419.0	71.3	
01/20/94	1300	5.60	3	31.68	1070.0	91.5	
01/27/94	1430	17.89	0	398.49	6227.0	6699.8	
02/03/94	1400	27.73	5	56.48	13210.0	2014.5	
02/09/94	1430	21.81	1	37.79	8385.0	855.5	
02/17/94	1024	10.27	5	18.32	2892.0	143.0	
02/17/94	1108	10.29	5	18.49	2900.0	144.8	
02/17/94	1400	10.43	13	21.38	2959.0	170.8	
02/25/94	1400	15.75	11	96.61	5239.0	1366.6	
03/03/94	1400	9.35	7	24.70	2505.0	167.1	
03/10/94	1430	13.00	15	24.13	4050.0	263.9	
03/17/94	1430	9.28	6	171.69	2476.0	1147.8	
03/24/94	1400	10.34	13	32.51	2921.0	256.4	
03/31/94	1400	12.06	9	31.99	3645.0	314.8	
04/07/94	1016	14.20	8	276.68	4565.0	3410.2	
04/07/94	1052	14.18	8	252.78	4557.0	3110.2	
04/11/94	1430	21.21	14	453.79	8025.0	9832.5	
04/15/94	1000	27.47	13	178.90	12930.0	6245.6	
04/22/94	1400	28.26	18	93.55	13800.0	3485.7	
04/29/94	1430	25.18	13	98.54	10800.0	2873.4	
05/06/94	1430	19.71	22	190.02	7172.0	3679.6	
05/12/94	1600	9.16	21	109.09	2426.0	714.6	
05/19/94	1000	4.05	25	69.71	564.5	106.2	

#370 - Little Wabash River at Carmi, IL (USGS #03381500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Q_w (cfs)</i>	<i>Q_s (t/d)</i>	<i>Remarks</i>
Water Year 1994 (concluded)							
05/23/94	1100	4.05	24	81.15	564.5	123.7	
05/23/94	1141	4.05	24	63.15	564.5	96.3	
06/03/94	1500	5.79	37	83.49	1138.0	256.5	
06/09/94	1600	3.25	30	86.55	342.4	80.0	
07/07/94	1026	5.69	-	107.63	1102.0	320.2	
07/07/94	1059	5.70	-	103.41	1106.0	308.8	
07/07/94	1630	5.75	31	112.58	1124.0	341.7	
07/15/94	1600	4.67	24	108.46	755.4	221.2	
07/21/94	1900	4.53	27	73.82	710.5	141.6	
07/29/94	1800	3.95	25	53.25	535.0	76.9	
08/04/94	1700	3.05	18	50.34	293.7	39.9	
08/11/94	1600	2.89	28	51.39	253.5	35.2	
08/18/94	1700	2.05	25	30.20	82.1	6.7	
08/19/94	1023	2.18	26	38.04	103.5	10.6	
08/19/94	1047	2.18	-	37.68	103.5	10.5	
08/25/94	1630	1.63	20	41.69	29.1	3.3	
09/02/94	1600	1.91	25	28.24	61.4	4.7	
09/08/94	1600	1.84	23	27.00	52.3	3.8	
09/15/94	1630	1.70	25	29.74	36.0	2.9	
09/22/94	1700	1.85	12	36.69	53.6	5.3	
09/29/94	1600	1.80	15	22.13	47.5	2.8	
Water Year 1995							
10/06/94	1630	1.85	18	16.08	53.6	2.3	
10/12/94	1101	1.85	17	25.40	53.6	3.7	
10/12/94	1136	1.85	-	24.07	53.6	3.5	
10/13/94	1600	1.71	12	20.30	37.1	2.0	
10/20/94	1600	1.73	15	22.90	39.3	2.4	
11/03/94	1600	1.76	13	89.81	42.7	10.4	
11/10/94	1300	3.34	16	102.93	365.2	101.5	
11/17/94	1600	3.68	14	149.82	456.7	184.7	
11/24/94	1630	3.89	15	151.87	517.2	212.1	
12/01/94	1600	4.31	7	153.12	642.1	265.5	
12/08/94	1600	5.53	3	121.02	1045.0	341.5	
12/15/94	1630	4.32	5	34.74	645.1	60.5	
12/22/94	1600	3.63	8	34.33	442.8	41.0	
12/28/94	1600	3.95	10	39.29	535.0	56.7	
01/05/95	1600	4.08	6	17.57	573.3	27.2	
01/11/95	1630	4.37	11	17.58	660.5	31.4	
01/18/95	1630	13.57	0	107.58	4294.0	1247.3	
01/26/95	1034	9.94	2	63.95	2754.0	475.5	

#370 - Little Wabash River at Carmi, IL (USGS #03381500)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995 (concluded)							
01/26/95	1115	9.83	2	44.51	2707.0	325.3	
03/09/95	1600	23.68	13	253.97	9634.0	6606.3	
03/16/95	1600	24.10	18	149.89	9956.0	4029.2	
03/17/95	1025	24.97	13	165.27	10640.0	4747.9	
03/17/95	1108	24.95	13	157.03	10620.0	4502.7	
03/23/95	1600	12.43	8	94.92	3804.0	974.9	
03/30/95	1600	5.82	4	93.45	1149.0	289.9	
04/06/95	1500	3.58	21	39.25	429.0	45.5	
04/13/95	1500	3.50	15	38.70	407.3	42.6	
04/20/95	1500	6.35	20	68.26	1339.0	246.8	
04/27/95	1600	11.85	15	221.56	3556.0	2127.3	
05/04/95	1029	13.88	12	183.84	4428.0	2197.9	
05/04/95	1110	13.86	12	186.23	4419.0	2222.0	
05/05/95	1600	12.07	20	183.34	3650.0	1806.8	
05/12/95	1630	11.91	19	240.28	3582.0	2323.9	
05/18/95	1630	28.41	17	25.90	13970.0	976.7	
05/25/95	1600	34.18	21	31.01	30960.0	2592.2	
06/01/95	1600	31.93	21	25.13	20120.0	1364.9	
06/08/95	1600	27.12	26	363.57	12560.0	12329.3	
06/09/95	1032	30.32	23	26.17	16220.0	1146.0	
06/09/95	1050	30.31	25	24.10	16210.0	1054.9	
06/09/95	1129	30.31	25	23.42	16210.0	1024.9	
06/15/95	1600	10.68	28	313.64	3064.0	2594.6	
06/22/95	1630	5.24	28	346.39	945.3	884.1	
06/29/95	1600	12.18	30	331.71	3697.0	3311.1	
07/06/95	1600	4.40	30	68.98	669.8	124.7	
07/13/95	1630	3.94	36	56.00	532.0	80.4	
07/20/95	1015	2.67	29	54.44	200.8	29.5	
07/20/95	1040	2.67	29	52.11	200.8	28.2	
07/20/95	1630	3.35	27	96.56	367.8	95.9	
07/27/95	1630	5.37	30	94.11	989.7	251.5	
08/10/95	1600	16.09	34	737.01	5390.0	10725.7	
08/17/95	1530	5.37	34	36.46	989.7	97.4	
08/24/95	1530	2.39	35	37.20	142.0	14.3	
08/31/95	1630	2.09	33	30.95	88.4	7.4	
09/07/95	1630	2.05	34	31.27	82.1	6.9	
09/08/95	1010	1.85	24	32.28	53.6	4.7	
09/08/95	1034	1.85	24	32.56	53.6	4.7	
09/14/95	1630	1.87	26	32.81	56.1	5.0	
09/22/95	1630	1.79	11	32.31	46.3	4.0	
09/28/95	1600	1.68	25	19.68	33.9	1.8	

#378 - Cache River at Forman, IL (USGS #03612000)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994							
10/04/93	1930	2.25	16	58.54	109.0	17.2	
10/12/93	1750	1.17	14	16.99	24.3	1.1	
10/18/93	1705	4.23	17	281.35	321.1	243.9	
10/25/93	1635	1.79	14	15.42	68.6	2.9	
11/01/93	1620	1.24	6	10.15	28.1	0.8	
11/08/93	1620	1.11	7	5.22	21.4	0.3	
11/15/93	1630	9.97	13	236.98	1325.0	847.8	
11/17/93	1440	14.71	12	325.28	2519.0	2212.3	
11/17/93	1515	14.70	12	308.28	2517.0	2095.0	
11/22/93	1630	8.56	9	100.33	1030.0	279.0	
11/29/93	1625	5.39	4	37.56	479.3	48.6	
12/07/93	1055	7.18	7	50.48	770.0	104.9	
12/14/93	1255	2.84	6	20.49	165.2	9.1	
12/22/93	1325	1.81	6	14.25	70.4	2.7	
12/22/93	1343	1.81	6	13.28	70.4	2.5	
12/22/93	1600	1.80	5	320.39	69.5	60.1	
12/29/93	1418	1.55	2	18.16	48.6	2.4	
01/06/94	1230	1.80	4	153.71	69.5	28.8	
01/12/94	1335	2.47	3	91.75	129.1	32.0	
01/19/94	1250	1.90	0	18.96	79.0	4.0	
01/25/94	1125	9.00	3	623.70	1119.0	1884.4	
02/01/94	1220	9.20	3	146.12	1160.0	457.6	
02/07/94	1200	3.94	5	31.70	285.6	24.4	
02/14/94	1350	2.45	6	33.41	127.2	11.5	
02/21/94	1023	7.85	10	239.36	892.3	576.7	
02/24/94	1252	9.19	7	168.81	1158.0	527.8	
02/24/94	1319	9.12	7	157.76	1143.0	486.9	
02/28/94	1020	5.81	4	55.82	542.6	81.8	
03/07/94	0915	3.96	11	26.32	288.0	20.5	
03/15/94	0840	6.70	11	1040.92	686.8	1930.2	
03/22/94	1700	3.23	15	72.96	205.6	40.5	
03/28/94	1645	7.17	11	135.07	768.2	280.2	
04/04/94	1850	5.88	13	35.22	553.5	52.6	
04/07/94	1347	8.38	10	88.31	994.1	237.0	
04/07/94	1410	8.36	10	73.10	990.1	195.4	
04/11/94	1730	10.65	16	198.46	1477.0	791.4	
04/18/94	1820	8.60	20	51.65	1038.0	144.8	
04/25/94	1630	8.19	21	19.89	957.1	51.4	
05/02/94	1615	7.61	15	106.56	847.7	243.9	
05/09/94	1820	2.82	19	47.13	163.2	20.8	
05/16/94	1615	1.66	24	28.28	57.2	4.4	

#378 - Cache River at Forman, IL (USGS #03612000)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1994 (concluded)							
05/23/94	1215	1.97	23	25.22	85.3	5.8	
05/23/94	1356	1.98	24	27.19	86.2	6.3	
05/23/94	1412	1.98	24	25.90	86.2	6.0	
05/31/94	1209	0.76	25	30.04	7.8	0.6	
06/06/94	1530	0.70	28	30.85	6.2	0.5	
06/13/94	1205	0.85	-	41.15	10.7	1.2	
06/20/94	0640	0.56	-	33.51	3.3	0.3	
06/27/94	1655	4.40	-	297.43	342.8	275.3	
07/05/94	1510	0.73	32	47.71	7.0	0.9	
07/07/94	1348	1.26	-	56.40	29.2	4.5	
07/07/94	1405	1.26	-	52.05	29.2	4.1	
07/11/94	1510	0.84	30	50.28	10.3	1.4	
07/19/94	1510	1.39	31	34.30	37.3	3.5	
07/26/94	1515	0.45	28	32.08	2.0	0.2	
08/01/94	1650	0.35	30	16.01	1.1	0.0	
08/08/94	1510	0.70	28	31.26	6.2	0.5	
08/15/94	1240	0.45	26	24.84	2.0	0.1	
08/22/94	1635	0.35	26	19.95	1.1	0.1	
08/30/94	1510	0.38	29	17.00	1.3	0.1	
09/06/94	1435	0.39	27	17.02	1.4	0.1	
09/13/94	0640	0.36	21	23.82	1.2	0.1	
09/19/94	1220	0.26	25	7.33	0.5	0.0	
09/26/94	1605	0.31	18	10.11	0.8	0.0	
Water Year 1995							
10/04/94	1220	0.28	21	6.53	1.6	0.0	
10/13/94	1416	0.27	17	3.97	1.5	0.0	
10/18/94	0750	0.31	17	12.27	2.0	0.1	
10/24/94	1235	0.81	17	28.70	15.8	1.2	
11/02/94	1440	0.37	16	12.85	2.9	0.1	
11/07/94	1425	6.90	17	163.39	770.8	340.0	
11/16/94	1240	2.20	13	23.04	128.6	8.0	
11/22/94	1320	3.96	12	74.61	326.0	65.7	
11/30/94	1315	6.20	10	113.60	653.1	200.3	
12/07/94	1405	1.72	12	21.19	81.4	4.7	
12/14/94	1410	3.99	5	37.39	329.8	33.3	
12/22/94	1210	1.96	9	15.50	104.1	4.4	
12/28/94	1505	1.40	7	14.23	52.0	2.0	
01/03/95	1350	1.21	3	9.95	37.9	1.0	
01/11/95	1455	2.10	8	31.44	118.1	10.0	
01/18/95	1000	10.77	9	484.55	1531.0	2003.0	

#378 - Cache River at Forman, IL (USGS #03612000)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Q_w (cfs)</i>	<i>Q_s (t/d)</i>	<i>Remarks</i>
Water Year 1995 (continued)							
01/26/95	1421	4.00	3	33.70	331.1	30.1	
01/26/95	1437	4.00	3	30.43	331.1	27.2	
01/27/95	1110	3.38	5	40.85	255.0	28.1	
02/03/95	1320	2.22	7	43.89	130.7	15.5	
02/08/95	1335	1.83	3	40.68	91.7	10.1	
02/15/95	0900	11.11	5	1890.34	1604.0	8186.7	
02/21/95	1345	5.99	8	80.09	619.1	133.9	
03/01/95	1445	3.94	8	73.60	323.4	64.3	
03/07/95	1300	7.17	10	523.41	818.1	1156.1	
03/15/95	0900	4.09	16	47.16	342.7	43.6	
03/17/95	1358	2.80	17	31.73	191.1	16.4	
03/17/95	1412	2.78	17	45.09	189.1	23.0	
03/23/95	1245	1.49	21	27.45	59.5	4.4	
03/30/95	1200	2.64	16	47.43	174.4	22.3	
04/07/95	1420	1.25	20	19.04	40.6	2.1	
04/13/95	1700	1.12	20	19.88	32.0	1.7	
04/18/95	1155	1.28	22	89.21	42.8	10.3	
04/27/95	1230	3.36	18	70.66	252.7	48.2	
05/02/95	1335	11.56	15	197.37	1702.0	907.0	
05/04/95	1352	6.98	13	97.65	784.7	206.9	
05/04/95	1418	6.98	13	117.62	784.7	249.2	
05/10/95	0930	4.38	22	162.36	381.1	167.1	
05/17/95	1705	10.77	21	832.17	1531.0	3439.9	
05/25/95	1030	9.90	25	47.07	1349.0	171.4	
05/30/95	1155	9.64	25	35.62	1294.0	124.4	
06/09/95	1430	3.90	25	165.36	318.4	142.2	
06/09/95	1449	3.86	25	175.12	313.3	148.1	
06/15/95	1700	1.73	27	46.69	82.4	10.4	
06/24/95	1440	4.08	27	139.82	341.4	128.9	
06/29/95	1905	6.30	25	210.81	669.5	381.1	
07/08/95	1725	1.27	28	41.42	42.1	4.7	
07/15/95	1745	0.62	32	23.07	8.8	0.6	
07/20/95	1335	0.43	28	24.36	4.0	0.3	
07/22/95	1710	0.41	30	22.26	3.6	0.2	
07/29/95	1730	0.85	31	39.61	17.6	1.9	
08/06/95	1705	4.07	28	234.88	340.1	215.7	
08/13/95	1830	0.69	31	30.98	11.2	0.9	
08/20/95	1625	0.41	32	21.68	3.6	0.2	
08/27/95	1835	0.33	28	21.88	2.2	0.1	
09/03/95	1600	0.23	27	15.28	0.9	0.0	
09/08/95	1312	0.47	22	34.37	4.8	0.4	

#378 - Cache River at Forman, IL (USGS #03612000)
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Q_w (cfs)</i>	<i>Q_s (t/d)</i>	<i>Remarks</i>
Water Year 1995 (concluded)							
09/12/95	1615	0.13	26	16.55	0.1	0.0	
09/19/95	1015	0.77	20	58.09	14.2	2.2	
09/24/95	1145	0.17	17	10.66	0.1	0.0	

#513 - Cache River at Ullin, IL
Instantaneous Suspended Sediment Measurements

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>Qs (t/d)</i>	<i>Remarks</i>
Water Year 1995							
04/11/95	1113	4.68	19	89.02	45.4	10.9	
05/04/95	1505	8.95	13	93.65	320.0	80.9	
05/04/95	1516	8.95	13	87.16	320.0	75.3	
05/18/95	1225	12.10	20	647.24	268.6	469.5	Backwater
05/25/95	1327	13.59	23	10.25	113.2	3.1	Backwater
06/01/95	1013	12.96	21	16.30	133.9	5.9	Backwater
06/09/95	1525	9.24	25	64.98	125.0	21.9	Backwater
06/22/95	1132	6.38	23	304.43	118.2	97.2	Backwater
06/30/95	0941	11.67	23	311.41	544.8	458.1	
07/14/95	0938	6.12	28	57.85	109.5	17.1	
07/20/95	1434	4.20	27	70.38	20.3	3.9	
08/02/95	0954	4.03	27	60.88	12.1	2.0	
08/10/95	1146	4.46	27	82.08	29.8	6.6	
08/17/95	1000	3.67	27	40.85	3.0	0.3	
08/23/95	1158	3.60	25	51.21	2.9	0.4	
08/31/95	0941	3.48	24	65.26	2.7	0.5	
09/08/95	1356	3.47	21	60.14	2.7	0.4	
09/20/95	1102	3.50	19	55.32	2.7	0.4	
09/29/95	0943	3.99	15	67.16	10.1	1.8	

Appendix B: Particle Size Distribution

#122 - Vermilion River near Leonore, IL (USGS #05555300)

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>% finer than 0.0625 mm</i>
Water Year 1994						
05/16/94	1400	5.35	19	80.52	877.8	91.00
Water Year 1995						
04/19/95	1101	7.99	12	115.60	2475.0	71.34
07/20/95	1042	3.80	27	67.94	203.1	81.06

#125 - Kankakee River at Momence, IL (USGS #05520500)

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>% finer than 0.0625 mm</i>
Water Year 1994						
05/12/94	1300	2.45	17	32.31	2644.0	93.61

#229 - Spoon River at London Mills, IL (USGS #05569500)

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>% finer than 0.0625 mm</i>
Water Year 1994						
10/06/93	1420	5.74	15	131.92	1006.0	73.42
03/30/94	1408	4.82	7	145.91	704.0	73.98
05/13/94	1106	5.67	18	163.45	981.5	77.29
Water Year 1995						
10/13/94	1030	2.30	13	75.14	93.9	91.08
11/02/94	0952	3.20	9	76.90	261.3	95.49
04/19/95	1007	9.71	13	641.66	2698.0	94.83
06/07/95	1823	8.05	23	300.52	1910.0	85.04
07/19/95	1503	4.34	28	294.81	564.4	85.98

#242 - La Moine River at Colmar, IL (USGS #05584500)

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>% finer than 0.0625 mm</i>
Water Year 1994						
10/06/93	1125	6.65	15	47.46	406.2	95.97
03/30/94	1105	5.16	7	49.78	217.3	84.79
05/11/94	1335	9.08	17	195.83	783.2	92.97
Water Year 1995						
10/12/94	1200	2.53	13	81.30	11.4	79.50
11/02/94	1426	3.54	10	88.24	66.6	93.30
04/19/95	1224	18.19	14	446.51	2970.0	98.59
06/07/95	1558	7.62	22	121.91	546.0	96.10
07/19/95	1256	4.69	26	137.79	166.6	97.56

#245 - La Moine River at Ripley, IL (USGS #05585000)

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>% finer than 0.0625 mm</i>
Water Year 1994						
10/07/93	1120	9.55	16	48.06	924.0	97.94
03/29/94	1325	7.65	9	47.23	465.3	82.71
05/10/94	1215	19.81	15	162.12	6044.0	79.86
Water Year 1995						
10/11/94	1200	4.57	13	340.01	22.7	91.23
11/01/94	1409	5.38	10	80.21	96.0	95.76
04/19/95	1420	18.32	16	796.78	4883.0	95.79
06/07/95	1319	14.64	24	130.03	2792.0	99.17
07/19/95	1026	7.32	26	91.14	398.9	95.52

#249 - Sangamon River at Monticello, IL (USGS #05572000)

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>% finer than 0.0625 mm</i>
Water Year 1994						
05/10/94	1230	11.44	13	86.95	1412.0	96.32

#361 - Kaskaskia River at Vandalia, IL (USGS #05592500)

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>% finer than 0.0625 mm</i>
Water Year 1994						
11/10/93	1327	9.63	11	49.37	2235.0	91.40
02/16/94	1350	9.00	6	79.54	1972.0	88.62
05/20/94	1329	9.90	20	110.45	2352.0	95.49
08/18/94	1346	2.85	27	73.35	170.5	96.51
Water Year 1995						
01/25/95	1346	10.55	2	108.95	2643.0	92.88
05/03/95	1334	6.43	13	76.60	1025.0	97.82
07/18/95	1323	8.60	25	161.10	1811.0	96.60

#367 - Silver Creek near Freeburg, IL (USGS #05594800)

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>% finer than 0.0625 mm</i>
Water Year 1994						
11/10/93	1034	1.48	7	8.40	84.8	89.67
02/16/94	1102	2.05	4	13.25	140.0	87.55
05/20/94	1051	1.90	20	68.79	124.7	98.29
08/18/94	1102	0.42	24	58.25	11.1	90.23
Water Year 1995						
01/25/95	1045	3.59	1	75.41	318.4	96.22
05/03/95	1038	4.86	12	216.81	491.5	99.62
07/18/95	1021	1.10	28	62.20	54.3	98.20

#370 - Little Wabash River at Carmi, IL (USGS #03381500)

<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>% finer than 0.0625 mm</i>
Water Year 1994						
11/12/93	1051	3.22	9	16.69	334.9	92.48
02/17/94	1030	10.28	5	21.32	2896.0	96.73
04/07/94	1023	14.19	8	262.32	4561.0	99.71
05/23/94	1107	4.05	24	59.04	564.5	99.50
08/19/94	1028	2.18	26	44.02	103.5	95.08
Water Year 1995						
01/26/95	1040	9.89	2	69.06	2733.0	99.05
05/04/95	1035	13.87	12	188.65	4424.0	99.35
07/20/95	1020	2.67	29	57.02	200.8	97.80

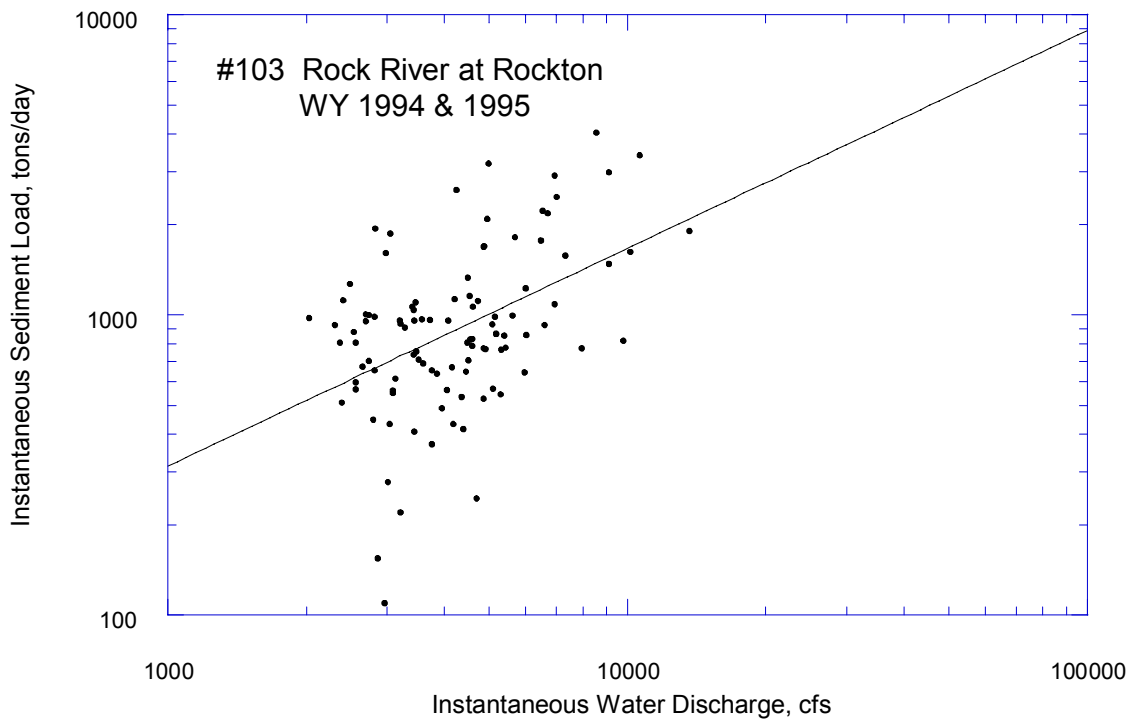
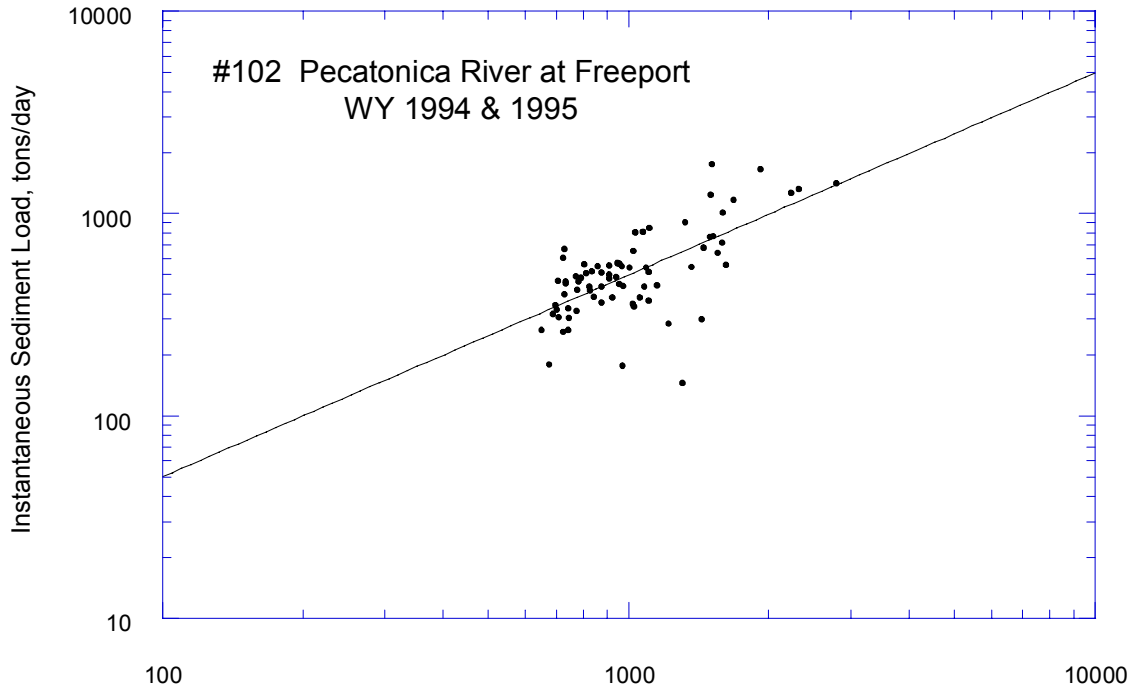
#378 - Cache River at Forman, IL (USGS #03612000)

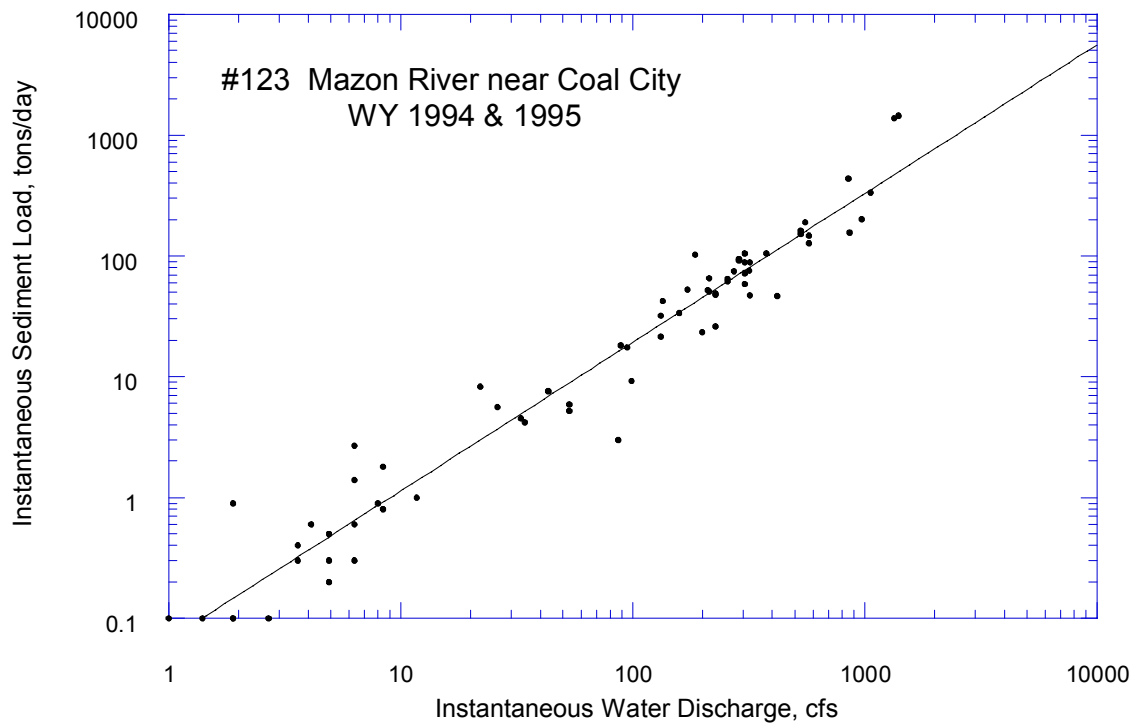
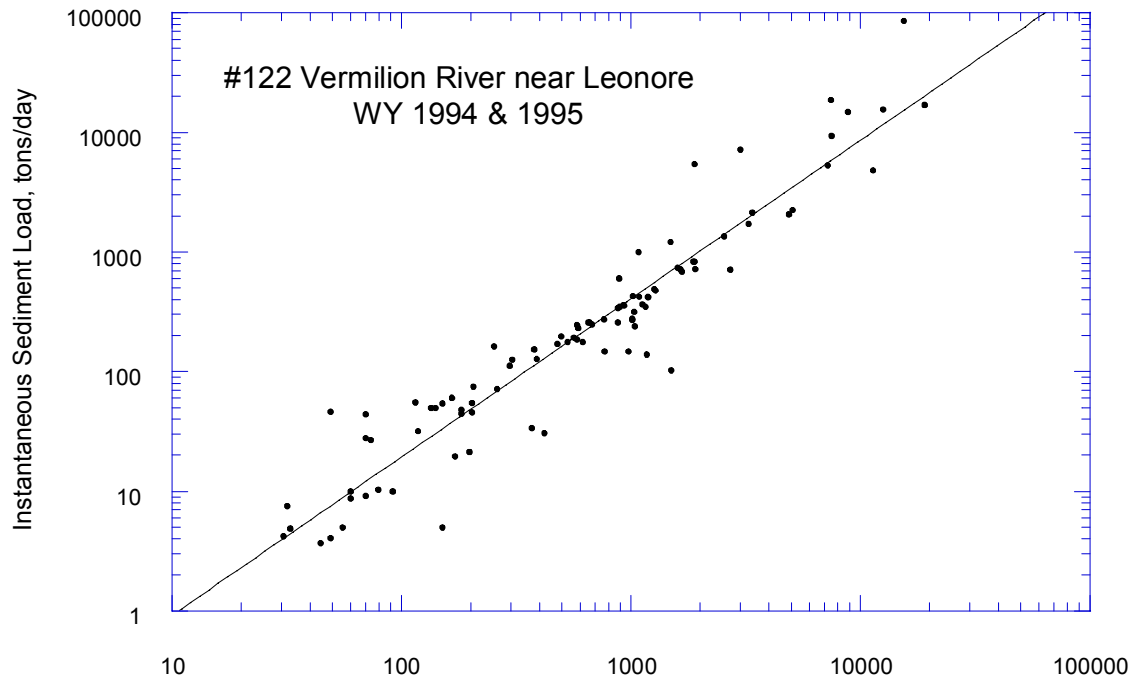
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Water Year 1994						
11/17/93	1446	14.70	12	290.58	2517.0	96.14
02/24/94	1257	9.16	7	141.38	1152.0	94.32
05/23/94	1401	1.98	24	27.94	86.2	92.75
Water Year 1995						
01/26/95	1424	4.00	3	35.45	331.1	91.92
05/04/95	1357	6.98	13	112.15	784.7	97.25

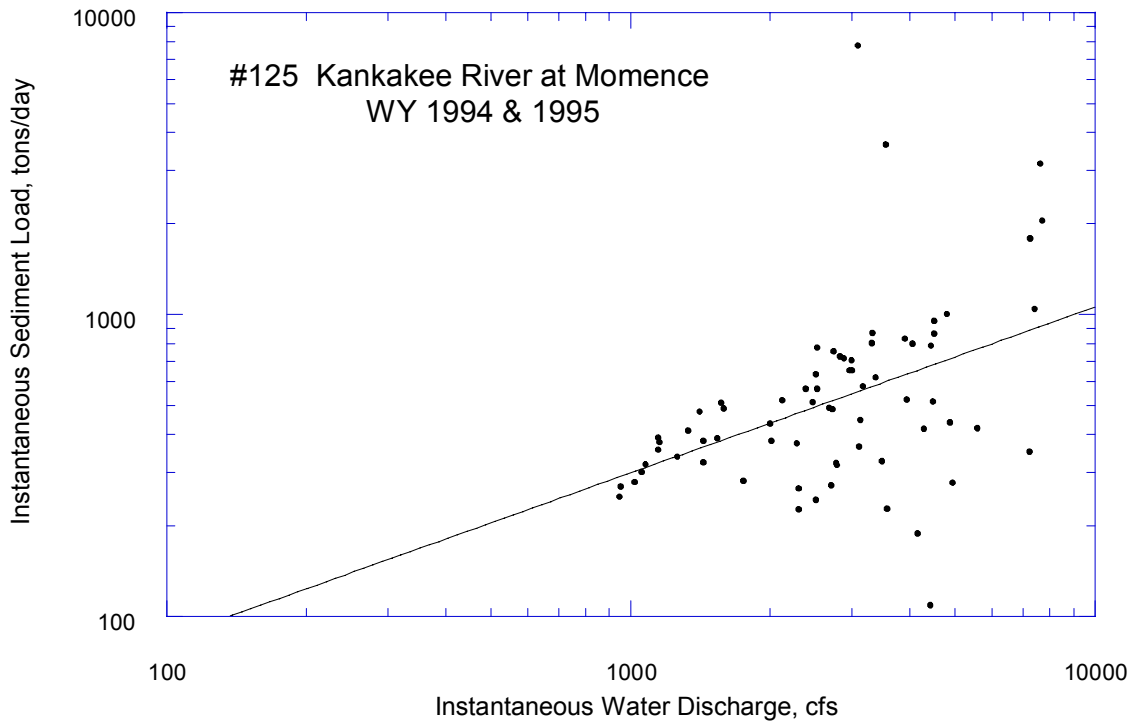
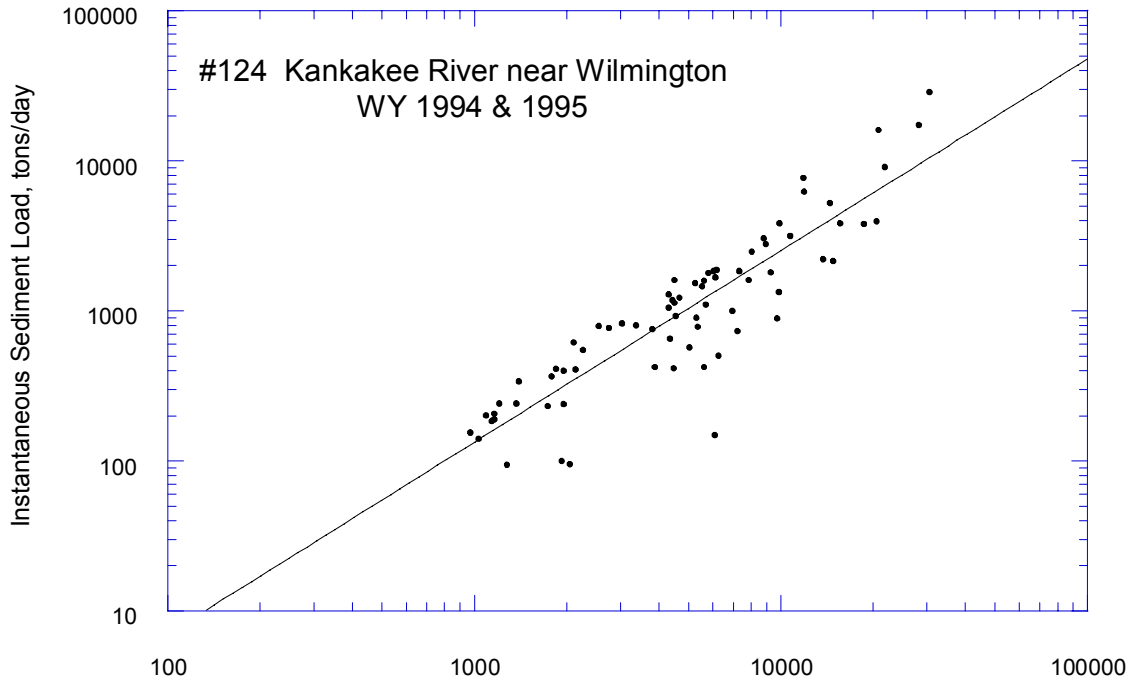
#513 - Cache River at Ullin, IL

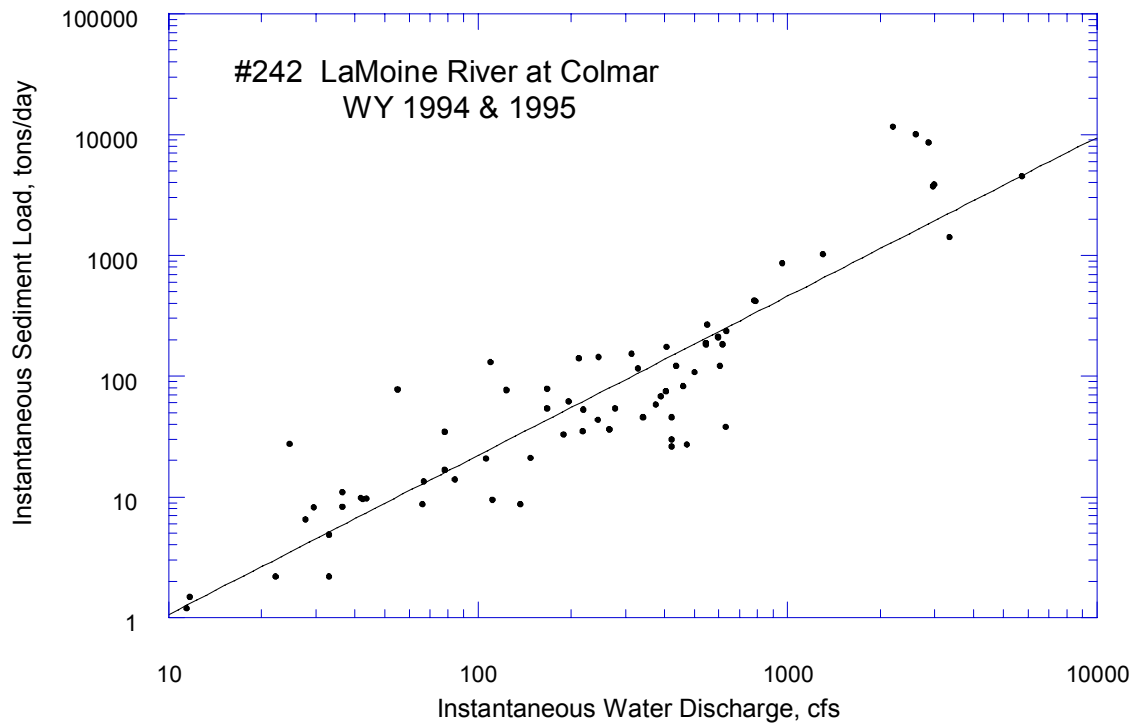
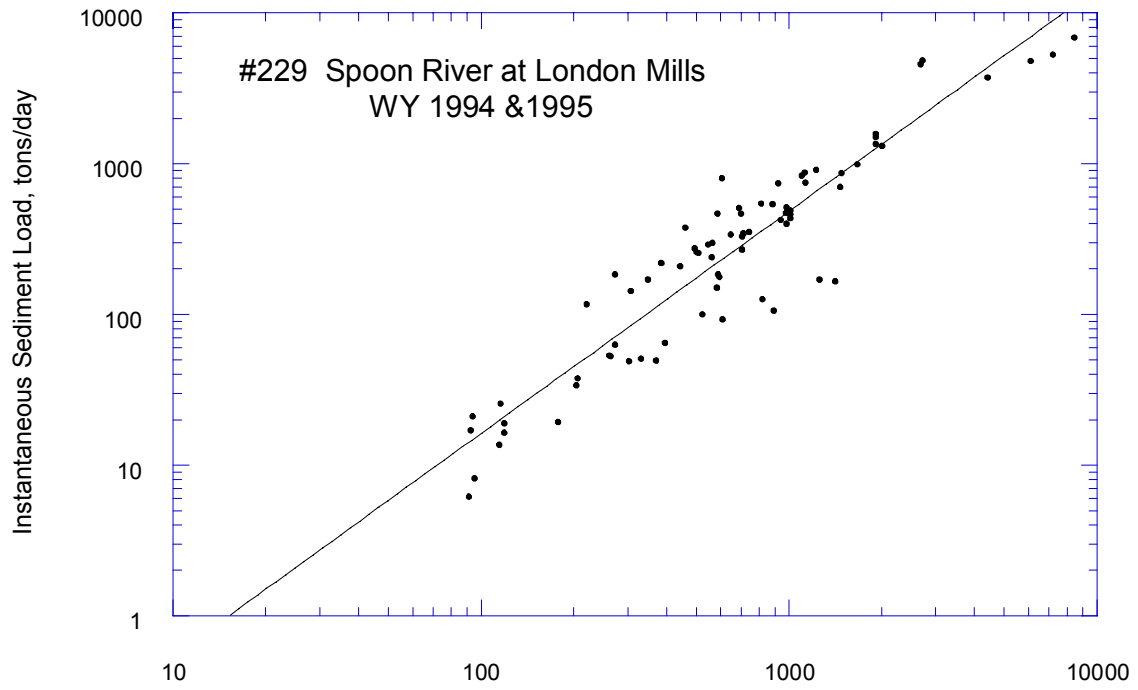
<i>Date</i>	<i>Time</i>	<i>Gage Ht</i>	<i>Temp (°C)</i>	<i>Cs (mg/l)</i>	<i>Qw (cfs)</i>	<i>% finer than 0.0625 mm</i>
Water Year 1995						
05/04/95	1507	8.95	13	108.64	320.0	98.71

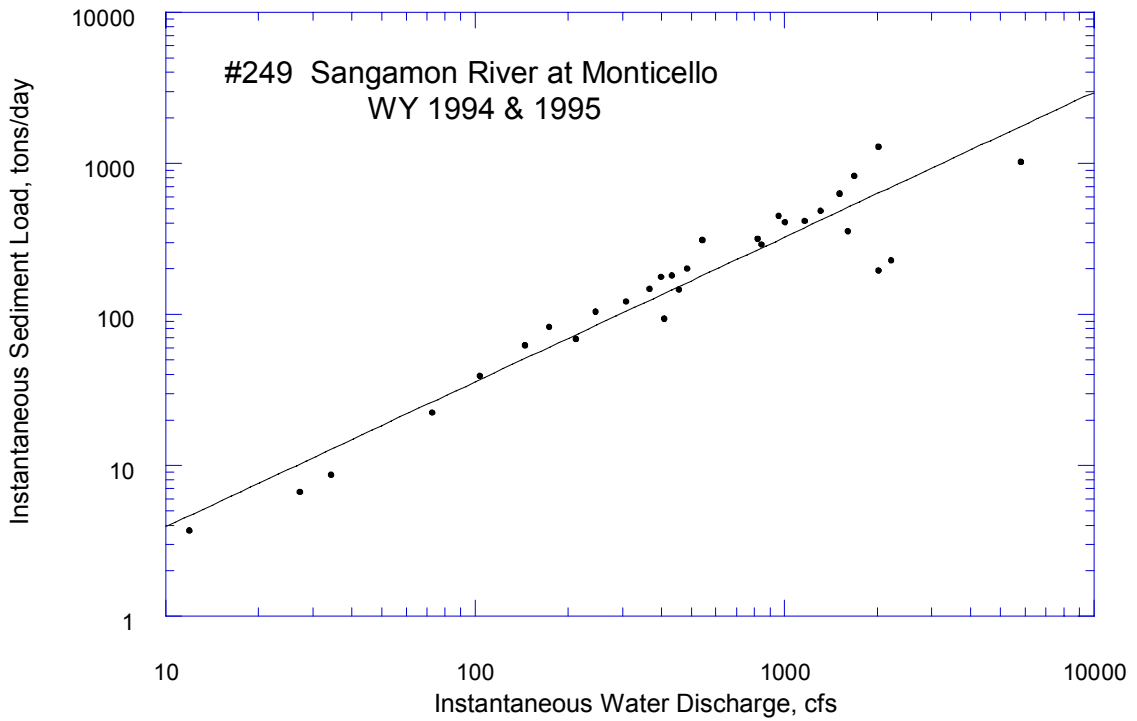
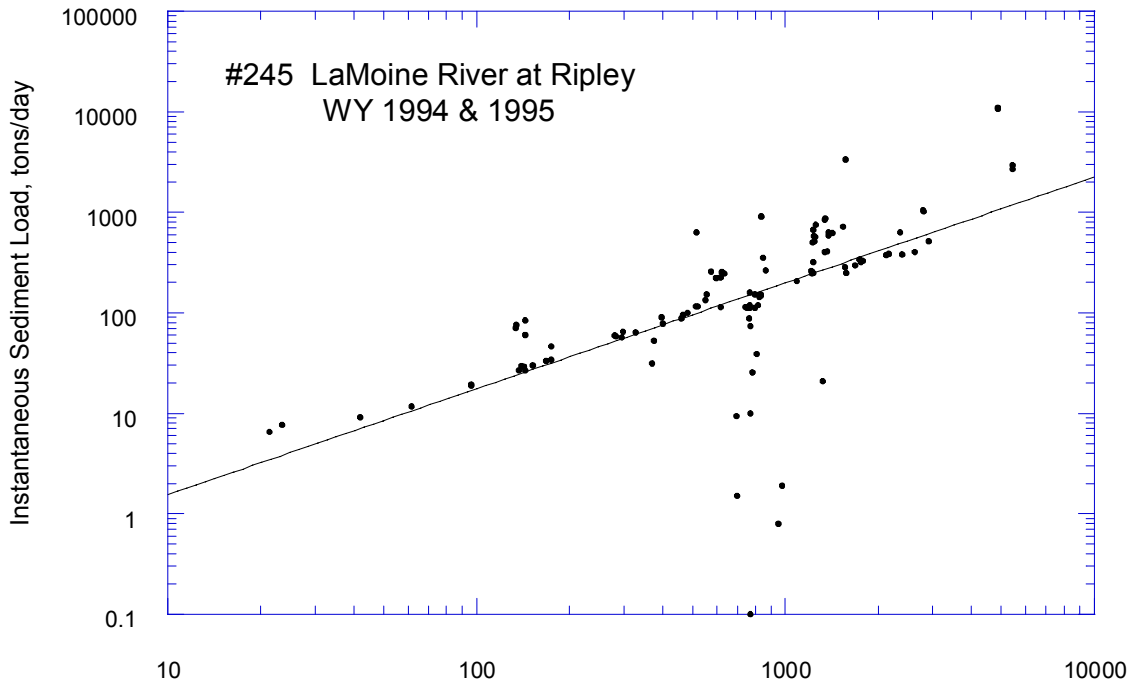
**Appendix C: Sediment Transport Curves
Based on Instantaneous Water Discharge
and Sediment Load**

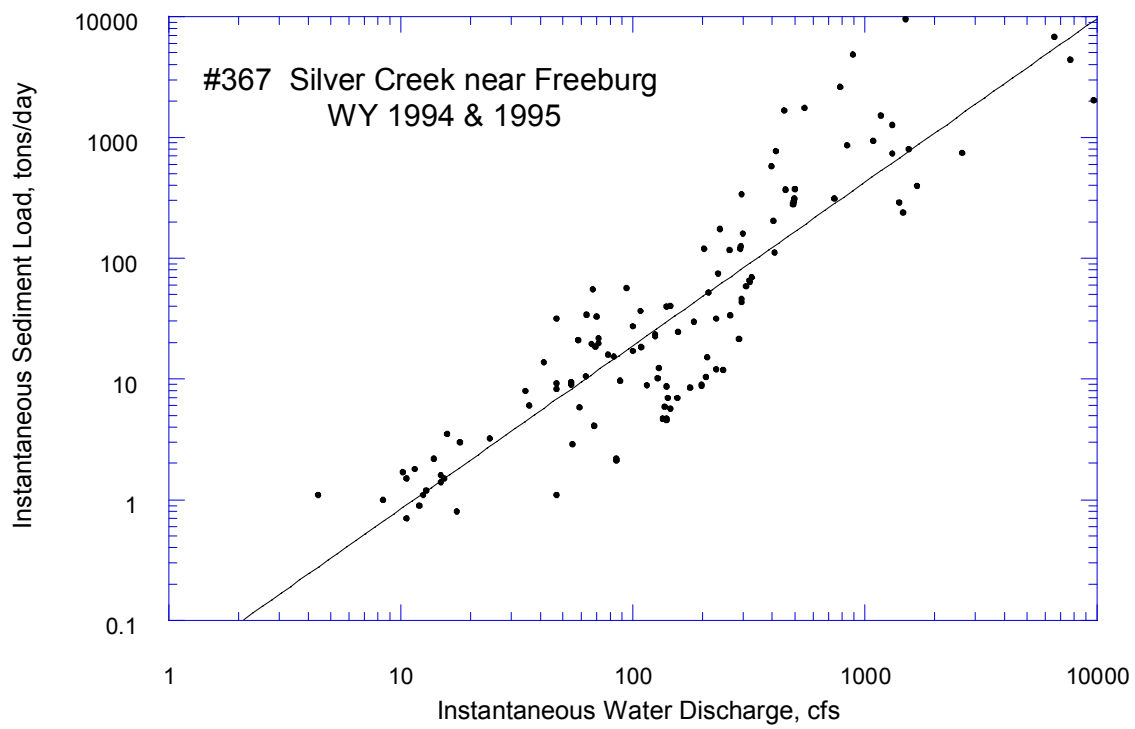
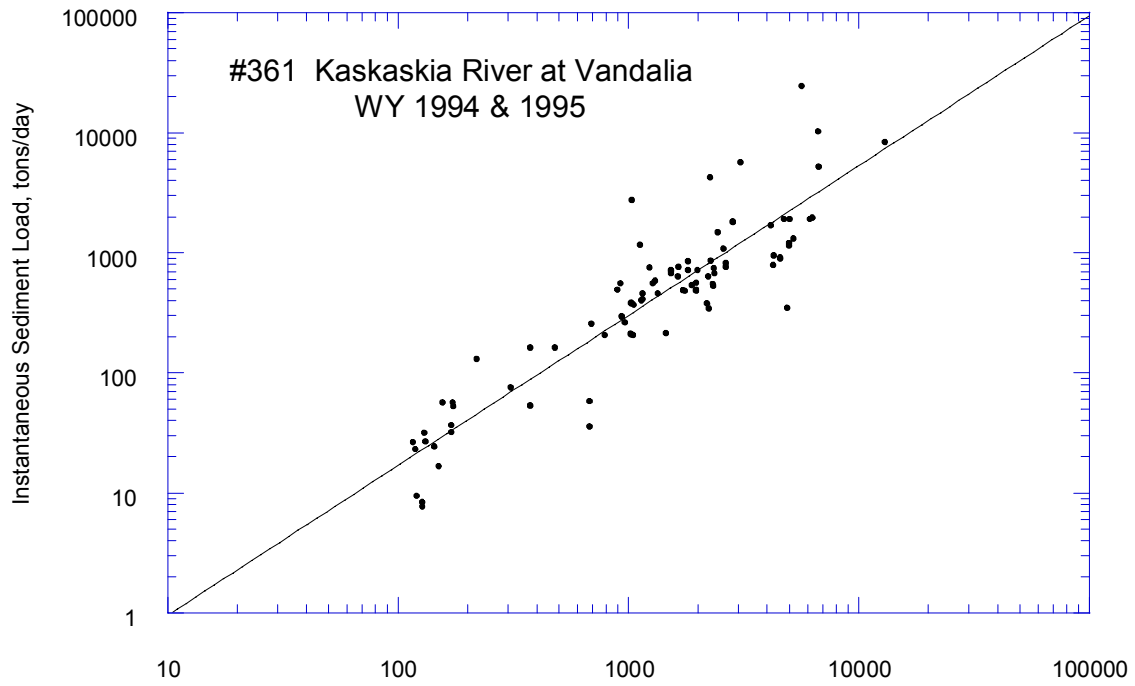


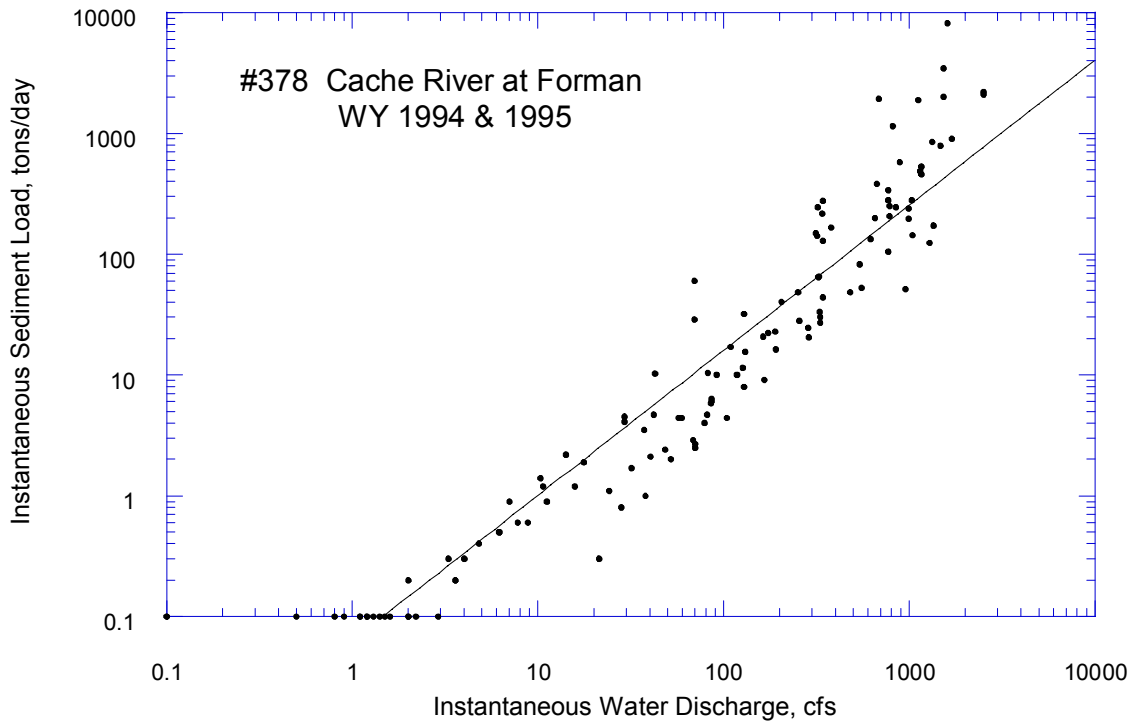
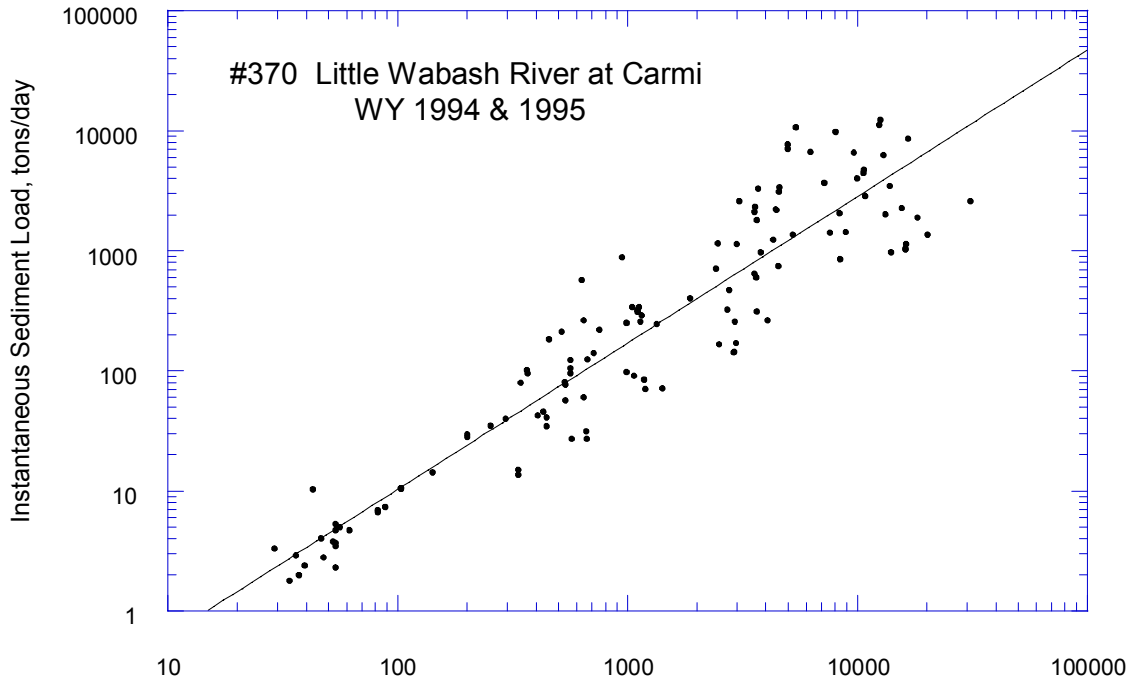


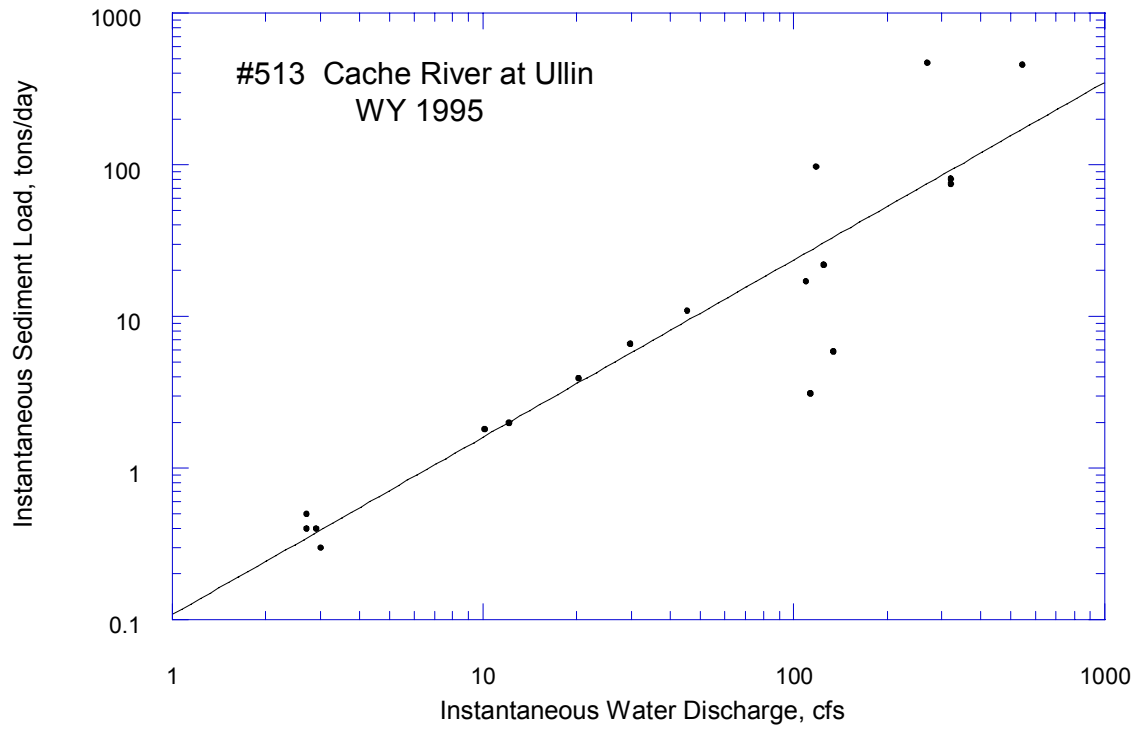












Appendix D: Plots of Instantaneous Sediment Concentration for the Period of Record for Current Monitoring Sites

