05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL

WATER-QUALITY RECORDS

LOCATION.--Lat 38°57′04″, long 90°22′16″, in sec.24, T.6 N., R.11 W., Jersey County, Hydrologic Unit 07110009, 11.3 mi above Lock and Dam 26, 19.0 mi above mouth of Missouri River, and at mile 214.6 upstream from the mouth of the Ohio River.

DRAINAGE AREA.--171,300 mi^2, approximately.

PERIOD OF RECORD.--March 1989 to current year. National stream-quality accounting network station 1989 to 1994.

REMARKS.--Established ambient water-quality monitoring network station November 1992. Sediment records fair.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT: October 1989 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,910 mg/L, May 23, 1990; minimum daily mean, 1 mg/L, Sept. 10, 1991.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 1,090,000 tons, May 23, 1990; minimum daily, 186 tons, Sept. 10, 1991.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 811 mg/L, Jan. 9; minimum daily mean, 41 mg/L, Nov. 8.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 433,000 tons, Apr. 2; minimum daily, 5,150 tons, Nov. 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 µM-MF (COLS./ 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 mL) (31673)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 mL) (31633)	ALKA-LINITY WAT DIS FIX END FIELD $CaCO_3$ (mg/L) (39036)
OCT												
16...	1125	69500	18.4	434	8.05	10	9.2	97	K4	950	K6	150
NOV												
12...	1335	63400	7.0	468	7.62	4.7	12.3	100	K22	K8	52	150
DEC												
04...	1045	46100	5.4	544	8.65	6.5	9.2	71	110	54	130	170
JAN												
22...	1020	79500	0.6	470	8.14	23	14.0	95	83	K76	54	180
FEB												
17...	1225	108000	4.2	303	7.97	63	13.7	105	200	210	100	150
MAR												
17...	1015	126000	3.8	466	8.03	34	13.0	97	K45	3000	K28	140
23...	1315	197000	3.3	435	7.92	90	13.3	99	190	5800	190	150
APR												
14...	1110	329000	13.8	607	7.91	37	10.4	100	K77	220	120	140
MAY												
05...	1010	250000	14.0	497	8.09	42	9.7	93	190	100	150	160
19...	0935	173000	22.3	544	8.10	30	7.4	83	78	15	68	160
JUN												
02...	0945	192000	23.3	522	7.92	33	7.3	86	44	K11	58	170
15...	1250	221000	21.8	495	8.13	100	6.9	78	1400	3000	1700	160
JUL												
06...	1340	286000	27.5	459	7.99	56	5.7	71	K150	500	540	150
AUG												
12...	1055	118000	26.9	440	8.09	32	7.4	91	110	K20	--	150
SEP												
01...	1045	93700	25.9	466	8.09	14	6.7	82	K29	230	K24	160

K--Results based on colony count outside the acceptable range (non-ideal colony count).

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	ALKA-LINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)	BICAR-BONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN DIS-SOLVED (mg/L as N) (00602)	NITRO-GEN, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	NITRO-GEN, NITRATE DIS-SOLVED (mg/L as N) (00618)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (mg/L as N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT												
16...	147	180	0	1.8	1.6	0.54	0.041	0.045	1.14	0.37	0.58	1.19
NOV												
12...	154	188	0	3.0	2.9	--	<0.020	0.023	2.41	0.45	0.53	2.43
DEC												
04...	166	178	12	2.7	2.4	--	<0.020	0.014	2.05	0.37	0.63	2.06
JAN												
22...	175	214	0	5.6	5.4	0.61	0.098	0.037	4.88	0.49	0.71	4.92
FEB												
17...	154	188	0	5.3	4.6	1.0	0.074	0.023	4.22	0.38	1.1	4.24
MAR												
17...	144	175	0	5.1	4.6	1.0	0.058	0.027	4.02	0.52	1.1	4.05
23...	146	178	0	5.3	4.7	1.0	0.130	0.022	4.16	0.54	1.1	4.18
APR												
14...	139	170	0	5.6	5.3	0.84	0.049	0.037	4.71	0.51	0.89	4.75
MAY												
05...	160	196	0	6.1	5.5	1.0	0.039	0.035	4.99	0.46	1.1	5.02
19...	162	198	0	6.4	5.9	0.96	0.055	0.078	5.30	0.48	1.0	5.38
JUN												
02...	167	204	0	5.9	5.2	0.96	0.053	0.197	4.66	0.39	1.0	4.85
15...	155	189	0	7.0	5.9	1.5	0.029	0.098	5.37	0.47	1.6	5.47
JUL												
06...	148	181	0	5.6	5.0	--	<0.020	0.030	4.55	0.43	1.0	4.58
AUG												
12...	152	185	0	3.0	3.0	0.47	0.084	0.062	2.35	0.57	0.55	2.41
SEP												
01...	166	203	0	2.7	2.1	--	<0.020	0.070	1.50	0.49	1.2	1.57

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (mg/L as PO_4) (00660)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	CARBON, ORGANIC DIS-SOLVED (mg/L as C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (mg/L as C) (00689)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	HARD-NESS NONCARB DISSOLV FLD. as $CaCO_3$ (mg/L) (00904)	HARD-NESS NONCARB DISSOLV LAB as $CaCO_3$ (mg/L) (00905)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)
OCT												
16...	0.40	0.173	0.141	0.129	5.4	1.1	200	49	--	44	21	18
NOV												
12...	0.38	0.137	0.115	0.123	5.0	0.70	200	42	--	47	20	18
DEC												
04...	0.31	0.133	0.093	0.101	4.7	1.1	220	49	--	51	21	21
JAN												
22...	0.28	0.179	0.092	0.092	4.9	0.70	250	70	--	58	25	28
FEB												
17...	0.25	0.313	0.086	0.083	5.0	1.9	220	68	--	54	22	19
MAR												
17...	0.25	0.248	0.086	0.080	5.7	2.0	190	47	--	46	18	14
23...	0.28	0.313	0.090	0.090	4.5	3.0	180	38	50	45	17	13
APR												
14...	0.25	0.282	0.108	0.081	5.1	1.6	190	--	--	47	17	10
MAY												
05...	0.24	0.283	0.079	0.077	5.7	3.0	230	67	--	57	21	10
19...	0.15	0.269	0.071	0.049	4.5	1.6	240	73	67	56	23	14
JUN												
02...	0.36	0.282	0.118	0.117	4.8	1.3	230	66	--	54	24	13
15...	0.43	0.570	0.167	0.140	4.3	2.2	220	66	56	54	21	12
JUL												
06...	0.47	0.373	0.143	0.153	5.6	1.9	190	41	--	47	17	8.7
AUG												
12...	0.41	0.186	0.130	0.133	5.2	1.2	200	49	--	47	20	14
SEP												
01...	0.39	0.229	0.148	0.127	7.3	0.90	200	35	--	45	22	14

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SILICA, DIS-SOLVED (mg/L as SiO_2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (mg/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.062 mm (70331)	SEDI-MENT, SUS-PENDED (mg/L) (80154)
OCT												
16...	0.6	16	3.3	27	34	0.29	8.6	269	250	50500	97	57
NOV												
12...	0.6	16	3.3	28	34	0.18	7.7	281	261	48100	93	58
DEC												
04...	0.6	17	3.0	31	37	0.22	7.2	298	280	37100	90	74
JAN												
22...	0.8	20	3.3	51	45	0.26	7.7	362	344	77700	91	132
FEB												
17...	0.6	16	2.9	30	39	0.14	7.9	304	286	88600	96	250
MAR												
17...	0.5	14	3.4	25	33	0.18	8.5	275	254	93600	71	313
23...	0.4	13	3.3	22	31	0.19	9.0	255	249	136000	88	463
APR												
14...	0.3	10	3.4	19	29	0.18	10	249	242	221000	79	162
MAY												
05...	0.3	9	3.0	21	42	0.17	8.3	302	282	204000	89	423
19...	0.4	12	3.2	27	46	0.25	5.5	320	297	149000	91	213
JUN												
02...	0.4	11	3.0	24	45	0.24	7.0	315	293	163000	94	182
15...	0.3	10	3.5	20	37	0.25	9.7	323	275	193000	96	488
JUL												
06...	0.3	9	3.6	16	25	0.25	13	264	241	204000	89	245
AUG												
12...	0.4	13	3.2	23	34	0.30	8.4	272	252	86700	95	143
SEP												
01...	0.4	13	2.9	23	30	0.21	7.0	275	250	69600	98	100

DATE	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)
OCT												
16...	<0.003	0.340	0.010	0.196	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	0.008	<0.002
NOV												
12...	<0.003	0.061	0.103	0.211	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	0.008	<0.002
DEC												
04...	<0.003	<0.002	0.006	0.080	<0.001	<0.002	<0.002	<0.010	<0.003	<0.004	<0.004	<0.002
JAN												
22...	<0.003	0.085	0.007	0.144	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002
FEB												
17...	<0.003	0.042	0.008	0.106	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	0.019	<0.002
MAR												
17...	<0.003	0.036	0.014	0.111	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002
23...	<0.003	0.040	0.014	0.147	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	0.029	<0.002
APR												
14...	<0.003	0.016	0.010	0.102	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	0.007	<0.002
MAY												
05...	<0.003	0.774	0.030	2.31	<0.001	<0.002	<0.002	<0.003	<0.003	<0.010	0.156	<0.002
19...	<0.003	1.80	0.065	4.12	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	0.548	<0.002
JUN												
02...	<0.003	0.879	0.029	3.16	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	0.284	<0.002
15...	<0.003	0.901	0.069	5.96	<0.001	<0.002	<0.002	<0.003	E0.024	<0.020	0.318	<0.002
JUL												
06...	<0.003	0.183	0.035	1.86	<0.001	<0.002	<0.002	<0.003	E0.0248	<0.004	0.290	<0.002
AUG												
12...	<0.003	0.019	0.007	0.536	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	0.083	<0.002
SEP												
01...	0.0047	0.016	0.004	0.226	<0.001	<0.002	<0.002	E0.043	<0.003	<0.004	0.012	0.016

E--Laboratory estimated value.

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)
OCT												
16...	E0.020	E0.003	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	0.028
NOV												
12...	E0.006	E0.004	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	0.093
DEC												
04...	E0.005	0.005	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	0.055
JAN												
22...	E0.005	E0.004	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	0.142
FEB												
17...	E0.018	<0.002	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	0.088
MAR												
17...	E0.019	<0.002	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	0.118
23...	E0.039	<0.002	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	0.313
APR												
14...	E0.006	<0.002	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	0.109
MAY												
05...	E0.016	E0.004	<0.001	<0.017	0.004	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	1.42
19...	E0.033	0.005	<0.001	<0.017	0.005	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	2.82
JUN												
02...	E0.035	<0.002	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	1.36
15...	E0.082	E0.004	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	1.75
JUL												
06...	E0.198	<0.002	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	0.809
AUG												
12...	E0.089	<0.002	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	0.194
SEP												
01...	E0.017	0.007	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	0.064

DATE	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	PARA-THION, DIS-SOLVED (µg/L) (39542)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	PEB-ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	PROP-CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)
OCT												
16...	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	E0.008	<0.007	<0.004	<0.013
NOV												
12...	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	E0.007	<0.007	<0.004	<0.013
DEC												
04...	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	E0.008	<0.007	<0.004	<0.013
JAN												
22...	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	E0.006	<0.007	<0.004	<0.013
FEB												
17...	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	E0.003	<0.007	<0.004	<0.013
MAR												
17...	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	<0.018	<0.007	<0.004	<0.013
23...	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	<0.018	<0.007	<0.004	<0.013
APR												
14...	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	E0.006	<0.007	<0.004	<0.013
MAY												
05...	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	E0.010	<0.007	<0.004	<0.013
19...	<0.010	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	E0.016	<0.007	<0.004	<0.013
JUN												
02...	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	E0.016	<0.007	<0.004	<0.013
15...	0.021	<0.004	<0.003	<0.004	<0.006	<0.004	0.023	<0.002	E0.010	<0.007	<0.004	<0.013
JUL												
06...	0.013	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	E0.013	<0.007	<0.004	<0.013
AUG												
12...	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	E0.015	<0.007	<0.004	<0.013
SEP												
01...	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.002	E0.011	<0.007	<0.004	<0.013

E--Laboratory estimated value.

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)
OCT											
16...	<0.003	0.008	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
NOV											
12...	<0.003	E0.004	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
DEC											
04...	<0.003	E0.004	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
JAN											
22...	<0.003	<0.005	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
FEB											
17...	<0.003	E0.004	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
MAR											
17...	<0.003	<0.005	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
23...	<0.003	0.006	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
APR											
14...	<0.020	<0.005	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
MAY											
05...	<0.003	0.028	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
19...	<0.003	0.034	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
JUN											
02...	<0.003	0.026	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
15...	<0.003	0.036	<0.010	<0.007	<0.013	<0.002	<0.001	E0.002	<0.002	<0.005	<0.006
JUL											
06...	<0.003	0.015	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
AUG											
12...	<0.003	<0.010	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	<0.006
SEP											
01...	<0.003	0.006	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	<0.002	<0.005	E0.001

E--Laboratory estimated value.

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)
	OCTOBER			NOVEMBER			DECEMBER		
1	45800	62	7640	70400	79	15000	64000	77	13300
2	52500	61	8680	62800	65	10900	63700	80	13800
3	48000	67	8690	58200	52	8200	60700	81	13300
4	48100	63	8130	65700	48	8550	50000	78	10500
5	50100	64	8700	78800	48	10200	43000	85	9750
6	51300	68	9460	70700	50	9530	49900	72	9790
7	48600	113	14900	65500	52	9170	55000	69	10200
8	46400	139	17400	65600	41	7230	57800	77	12100
9	42800	135	15600	59400	43	6880	60500	78	12700
10	41900	123	14000	60800	57	9340	54600	54	7890
11	52000	124	17500	63900	58	9970	55400	60	9050
12	50400	101	13800	63000	58	9790	57800	65	10200
13	51400	83	11600	60200	55	8870	57200	61	9370
14	41400	74	8220	50400	45	6220	55900	66	9980
15	49800	66	8830	46800	41	5150	58100	73	11500
16	68600	72	13500	43900	65	7760	58700	67	10600
17	73200	69	13700	53000	83	11900	58600	89	13900
18	71100	72	14000	50400	69	9320	60400	132	21600
19	72700	76	14900	47500	75	9610	54700	122	18100
20	71100	77	14800	50300	69	9340	56600	97	14800
21	70100	72	13500	46200	50	6130	65800	81	14500
22	73900	79	15900	44000	54	6490	57000	88	13500
23	76000	76	15700	42500	72	8180	53700	96	13900
24	78900	68	14500	48700	117	15400	59700	92	14800
25	74000	69	13700	42500	105	12100	54800	85	12700
26	74800	62	12600	36700	108	9750	53500	83	12000
27	65900	66	11800	43200	70	8180	59300	78	12400
28	64000	67	11500	48300	64	8360	59100	69	11000
29	62100	61	10200	57200	69	10700	52600	70	9770
30	69200	59	11000	67700	67	12300	49200	80	10600
31	72300	62	12200	---	---	---	48800	89	11800
	JANUARY			FEBRUARY			MARCH		
1	55700	90	13500	84300	128	29200	209000	555	313000
2	50900	87	11800	85300	112	25800	198000	381	205000
3	51300	89	12300	82800	96	21400	191000	309	159000
4	79900	99	21700	93300	133	33500	189000	293	150000
5	99200	110	29500	95500	176	45200	186000	271	136000
6	111000	144	43500	95200	169	43400	185000	271	136000
7	124000	266	90300	92300	155	38600	183000	296	146000
8	156000	523	226000	93600	155	39100	186000	286	145000
9	184000	811	403000	92200	157	39300	215000	496	289000
10	165000	774	346000	91600	151	37300	225000	525	320000
11	130000	587	205000	94700	144	37100	229000	632	391000
12	98300	586	155000	117000	307	98300	229000	604	373000
13	65900	517	91600	133000	388	140000	222000	502	300000
14	78200	479	101000	132000	358	127000	211000	422	240000
15	66800	403	72600	115000	373	116000	192000	350	181000
16	71600	413	80400	111000	255	76300	171000	285	132000
17	73400	406	80200	114000	260	80000	161000	256	112000
18	79500	278	60100	122000	267	87900	205000	424	238000
19	76300	214	44000	123000	232	77000	221000	613	366000
20	85500	192	44400	123000	227	75300	216000	623	363000
21	80000	158	34300	126000	221	74900	211000	550	314000
22	77300	132	27500	128000	194	66700	207000	447	250000
23	82300	142	31700	132000	190	67700	202000	424	231000
24	85900	147	34000	140000	211	79600	202000	258	141000
25	84200	117	26700	139000	225	84100	208000	205	115000
26	87000	130	30500	139000	275	104000	216000	212	124000
27	82800	139	31000	164000	395	179000	217000	401	235000
28	85300	107	24700	202000	715	391000	216000	525	306000
29	81600	109	23900	---	---	---	216000	547	319000
30	84300	142	32400	---	---	---	215000	505	293000
31	89700	152	37000	---	---	---	217000	480	281000

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)
	APRIL			MAY			JUNE		
1	230000	643	400000	259000	203	142000	168000	190	86700
2	234000	684	433000	253000	199	136000	172000	185	85500
3	241000	518	337000	253000	221	151000	170000	183	84000
4	256000	424	293000	256000	233	161000	165000	166	73900
5	273000	347	257000	249000	223	150000	157000	157	66400
6	286000	302	233000	233000	229	144000	145000	144	56300
7	295000	319	255000	222000	225	135000	136000	141	51900
8	300000	335	272000	222000	260	155000	135000	151	55000
9	304000	330	271000	219000	244	145000	148000	197	78900
10	306000	319	264000	217000	209	122000	146000	237	93400
11	308000	299	249000	216000	206	120000	146000	307	122000
12	312000	241	203000	211000	213	121000	182000	493	244000
13	318000	158	136000	208000	242	136000	190000	452	232000
14	329000	157	140000	212000	264	152000	200000	434	235000
15	335000	165	149000	214000	277	160000	219000	487	289000
16	346000	196	183000	205000	277	153000	221000	502	300000
17	356000	198	190000	183000	291	143000	229000	493	306000
18	356000	194	186000	163000	260	114000	230000	465	288000
19	348000	156	147000	165000	219	97800	227000	478	293000
20	337000	174	158000	173000	231	108000	230000	412	256000
21	324000	217	190000	180000	232	113000	236000	363	232000
22	311000	218	183000	203000	231	127000	233000	448	281000
23	302000	239	195000	219000	289	170000	236000	388	248000
24	294000	219	174000	213000	309	178000	246000	264	175000
25	288000	210	163000	214000	295	170000	252000	203	138000
26	281000	225	171000	220000	293	174000	250000	218	147000
27	274000	245	181000	219000	333	197000	249000	207	140000
28	268000	282	204000	209000	275	155000	252000	216	147000
29	264000	254	181000	193000	221	115000	249000	232	156000
30	265000	207	148000	192000	206	107000	251000	311	211000
31	---	---	---	176000	203	96000	---	---	---
	JULY			AUGUST			SEPTEMBER		
1	261000	368	260000	105000	194	54800	91700	102	25300
2	273000	343	253000	98100	208	55000	73600	106	21100
3	279000	268	202000	95400	189	48700	48000	115	14700
4	279000	228	172000	92300	135	33800	48300	154	20200
5	278000	241	181000	94700	123	31400	46500	139	17400
6	279000	242	182000	103000	132	36700	46900	113	14300
7	281000	216	164000	109000	118	34700	44400	91	10900
8	284000	191	146000	113000	111	33900	43200	89	10400
9	289000	210	164000	119000	126	40400	43600	127	15000
10	293000	231	183000	121000	121	39400	47400	116	14800
11	294000	241	191000	120000	132	42700	44300	88	10500
12	290000	233	182000	118000	143	45700	43300	102	11900
13	284000	213	163000	114000	141	43500	39300	172	18300
14	276000	212	158000	104000	116	32600	47300	202	25900
15	267000	215	155000	104000	107	30000	50300	198	26900
16	255000	225	155000	102000	117	32100	66200	209	37400
17	242000	271	176000	85900	113	26200	70800	183	35000
18	227000	318	194000	79800	120	25800	59500	148	23800
19	216000	298	174000	96400	145	37700	47200	120	15200
20	207000	237	132000	99100	103	27500	42800	107	12300
21	192000	252	131000	72600	95	18700	40900	137	14900
22	173000	181	84200	64200	102	17700	42500	149	17200
23	156000	171	72100	54300	99	14600	38800	149	15600
24	161000	174	75300	58700	110	17600	41800	130	14700
25	161000	166	71900	65800	127	22500	41100	147	16300
26	160000	207	89500	66400	97	17400	40800	146	16100
27	140000	295	111000	59200	85	13600	40100	150	16300
28	118000	296	93600	64200	92	16000	38600	183	19100
29	109000	297	87700	79600	103	22000	42300	145	16700
30	116000	265	83200	93100	118	29800	40700	104	11600
31	114000	224	68900	96900	102	26700	---	---	---