

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued  
(National stream-quality accounting network station)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURE: October 1974 to September 1981.

SUSPENDED-SEDIMENT: October 1980 to current year.

REMARKS.--NASQAN station January 1973 to September 1986. Illinois Environmental Protection Agency station October 1986 to September 1994 (during the period, samples were analyzed by the Illinois EPA). Re-established as a NASQAN station October 1994 to current year. Sediment records good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 705 microsiemens per centimeter, Aug. 5-7, 1980; minimum daily, 272 microsiemens per centimeter, Apr. 6, 1979.

WATER TEMPERATURE: Maximum daily, 31.5°C, July 10 and 11, 1975, and July 17, 1977; minimum daily, 0.0°C, on several days during winter periods.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,890 mg/L, Dec. 22, 1985; minimum daily mean, 13 mg/L, Jan. 28, 1981.

SUSPENDED-SEDIMENT LOADS: Maximum daily, 6,280,000 tons, Mar. 1, 1985; minimum daily, 2,530 tons, Jan. 28, 1981.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,630 mg/L, Feb. 25; minimum daily mean, 100 mg/L, Sept. 9.

SUSPENDED-SEDIMENT LOADS: Maximum daily, 2,310,000 tons, Feb. 27; minimum daily, 35,700 tons, Jan. 19.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	TEMPER- ATURE WATER (DEG C) (00010)	DIS- CHARGE, INST. CUBIC FEET WATER PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (μS/cm) (00095)	OXYGEN, DIS- SOLVED OXYGEN, PER- CENT (mg/L) (00300)	PH WATER WHOLE (PER- CENT) (mg/L) (00301)	COLI- FORM, FIELD (STAND- ARD) (NTU) (00400)	STREP- TOCOCCI FECAL, KLF AGAR 0.7 μm-MF ITY (COLS./ 100 mL) (00076)	ALKA- LINITY WAT DIS TOT IT FIELD FIELD (mg/L as CaCO <sub>3</sub> ) (31625)	ALKA- LINITY WAT DIS TOT IT FIELD FIELD (mg/L as CaCO <sub>3</sub> ) (31673)	ALKA- LINITY WAT DIS TOT IT FIELD FIELD (mg/L as CaCO <sub>3</sub> ) (39036)	ALKA- LINITY WAT DIS TOT IT FIELD FIELD (mg/L as CaCO <sub>3</sub> ) (39086)
OCT 21...	1530	17.0	124000	654	9.7	99	8.11	20	100	K24	163	164
DEC 16...	1530	4.0	191000	511	12.8	96	7.84	24	1000	1850	158	157
JAN 27...	1425	2.0	161000	438	13.4	97	7.79	39	K640	340	163	164
FEB 24...	1515	5.0	441000	555	11.3	87	7.64	380	580	6000	141	146
MAR 12...	1430	8.0	405000	370	10.9	91	7.83	72	260	420	128	129
	26...	1700	9.0	343000	464	9.4	79	8.03	55	K81	164	160
APR 15...	1315	8.0	442000	507	10.5	86	7.49	0.8	440	480	135	137
	28...	1525	13.0	492000	439	9.5	90	7.91	78	208	80	130
MAY 22...	1600	18.0	284000	297	8.4	86	7.72	0.3	148	K12	153	154
JUN 11...	1535	21.5	246000	586	8.0	88	7.49	30	K160	K10	153	157
JUL 09...	1600	27.5	238000	617	7.0	86	7.80	60	--	K79	154	155
	21...	1520	29.5	220000	601	7.2	92	7.98	42	260	88	160
AUG 13...	1540	26.0	175000	634	8.0	98	8.12	--	60	K5	307	307
	20...	1450	25.0	192000	586	7.5	89	8.20	19	310	210	150
SEP 17...	1530	25.5	141000	641	7.5	91	7.96	27	400	K19	145	152

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

## 07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	CAR-BONATE WATER DIS IT FIELD (mg/L as CO <sub>3</sub> ) (00452)	BICAR-BONATE WATER DIS IT FIELD (mg/L as HCO <sub>3</sub> ) (00453)	NITRO-GEN, TOTAL (ng/L as N) (00600)	NITRO-GEN, DIS-SOLVED (ng/L as N) (00602)	NITRO-GEN, ORGANIC TOTAL (ng/L as N) (00605)	NITRO-GEN, DIS-SOLVED (ng/L as N) (00607)	NITRO-GEN, AMMONIA TOTAL (ng/L as N) (00608)	NITRO-GEN, NITRITE DIS-SOLVED (ng/L as N) (00613)	NITRO-GEN, NITRATE DIS-SOLVED (ng/L as N) (00618)	NITRO-GEN, MONIA + ORGANIC DIS. (ng/L as N) (00623)
OCT 21...	0	200	1.4	1.1	0.52	0.22	0.08	0.03	0.75	0.3
DEC 16...	0	192	2.8	2.5	0.59	0.29	0.11	0.02	2.08	0.4
JAN 27...	0	200	3.2	2.9	0.74	0.44	0.26	0.03	2.17	0.7
FEB 24...	0	178	4.3	2.6	2.1	0.41	0.19	0.02	1.98	0.6
MAR 12...	0	157	3.8	3.0	1.1	0.35	0.25	0.03	2.37	0.6
26...	0	191	3.7	3.1	1.0	0.45	0.14	0.04	2.51	0.6
APR 15...	0	167	4.0	2.8	1.6	0.38	0.04	0.03	2.33	0.4
28...	0	158	3.3	2.6	1.1	0.43	0.03	0.02	2.07	0.5
MAY 22...	0	188	3.3	2.8	0.79	0.37	0.06	0.02	2.40	0.4
JUN 11...	0	191	3.4	2.9	0.80	0.32	0.03	0.03	2.52	0.4
JUL 09...	0	190	3.4	3.4	0.38	--	<0.01	0.02	3.01	0.4
21...	0	194	2.7	--	0.77	--	<0.01	0.02	1.94	<0.2
AUG 13...	0	375	2.0	1.7	0.73	--	<0.01	0.02	1.29	0.4
20...	0	190	1.7	1.4	0.76	0.43	0.03	0.02	0.90	0.5
SEP 17...	0	185	0.52	--	0.52	--	<0.01	<0.01	--	0.3
DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00631)	PHOS-PHATE, ORTHO, DIS-SOLVED (mg/L as PO <sub>4</sub> ) (00660)	PHOS-PHORUS, DIS-SOLVED (mg/L as P) (00665)	PHOS-PHORUS, TOTAL (mg/L as P) (00666)	PHOS-PHORUS, DIS-SOLVED (mg/L as P) (00671)	CARBON, ORGANIC SUS-PENDED TOTAL (mg/L as C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (mg/L as C) (00689)	HARDNESS, TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	HARDNESS, NONCARB DISSOLV FLD. as (mg/L) (00904)
OCT 21...	0.60	0.78	0.23	0.150	0.060	0.074	4.7	1.9	220	58
DEC 16...	0.70	2.10	0.26	0.180	0.070	0.086	4.4	1.5	210	52
JAN 27...	1.0	2.20	0.27	0.230	0.080	0.088	4.8	1.2	230	61
FEB 24...	2.3	2.00	0.22	1.40	0.090	0.073	5.0	10	190	40
MAR 12...	1.4	2.40	0.37	0.380	0.080	0.120	5.0	2.0	170	36
26...	1.2	2.55	0.23	0.404	0.126	0.076	5.2	0.3	--	--
APR 15...	1.6	2.36	0.27	0.714	0.069	0.089	5.3	3.5	--	--
28...	1.2	2.10	0.19	0.390	0.070	0.062	4.8	2.6	--	--
MAY 22...	0.85	2.42	0.25	0.238	0.070	0.081	4.9	0.7	230	79
JUN 11...	0.84	2.55	0.25	0.186	0.071	0.083	6.1	0.6	240	83
JUL 09...	0.38	3.03	0.43	0.174	0.165	0.140	4.1	1.1	220	66
21...	0.77	1.96	0.39	0.259	0.105	0.128	4.2	1.0	220	63
AUG 13...	0.73	1.31	0.27	0.190	0.093	0.089	4.2	0.9	220	0
20...	0.79	0.91	0.27	0.222	0.093	0.089	4.4	0.6	220	67
SEP 17...	0.52	<0.05	0.34	0.179	0.086	0.110	3.8	1.1	220	68

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	HARDNESS NONCARB DISSOLV LAB as CaCO <sub>3</sub> (mg/L) (00905)		MAGNE- SIUM, DIS- SOLVED (mg/L) (00915)		SODIUM, DIS- SOLVED (mg/L) (00925)		SODIUM AD- SORP- TION RATIO (00931)		POTAS- SIUM, DIS- SOLVED (mg/L) (00932)	CHLO- RIDE, DIS- SOLVED (mg/L) (00935)	SULFATE DIS- SOLVED (mg/L) (00940)	FLUO- RIDE, DIS- SOLVED (mg/L) (00945)	SILICA, DIS- SOLVED (mg/L as SiO <sub>2</sub> ) (00955)
	CALCIUM (mg/L) (00915)	SODIUM as Mg (00925)	SODIUM as Na (00930)	SODIUM PERCENT (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 <sub>4</sub> ) (00945)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SILICA, DIS- SOLVED (mg/L as SiO <sub>2</sub> ) (00955)			
OCT 21...	50	54	21	45	1	30	5.7	24	130	0.4	6.4		
DEC 16...	45	54	18	30	0.9	23	4.3	22	84	0.3	9.3		
JAN 27...	55	57	20	31	0.9	23	4.7	29	75	0.3	10		
FEB 24...	39	48	16	27	0.9	24	4.6	25	66	0.3	9.9		
MAR 12...	36	43	14	21	0.7	21	5.0	25	46	0.2	8.5		
	26...	36	47	16	27	0.9	24	5.0	22	57	0.2	7.5	
APR 15...	46	49	16	27	0.9	23	4.6	18	80	0.3	9.0		
	28...	--	--	--	--	--	--	--	15	66	0.2	--	
MAY 22...	67	58	21	27	0.8	20	4.9	19	99	0.3	6.5		
JUN 11...	76	58	23	30	0.9	21	4.7	20	97	0.3	6.3		
JUL 09...	58	55	20	33	1	24	5.0	20	110	0.3	8.7		
	21...	55	55	21	36	1	26	4.7	19	110	0.3	8.3	
AUG 13...	--	55	20	42	1	29	4.5	19	110	0.3	7.6		
	20...	65	55	21	42	1	29	4.5	19	130	0.3	7.2	
SEP 17...	60	53	21	46	1	31	5.0	20	140	0.3	8.9		
DATE	MOLYB- DENUM, DIS- SOLVED (mg/L as Mo) (01060)	NICKEL, DIS- SOLVED (mg/L as Ni) (01065)	SILVER, DIS- SOLVED (mg/L as Ag) (01075)	STRON- TIUM, DIS- SOLVED (mg/L as Sr) (01080)	VANA- DIUM, DIS- SOLVED (mg/L as V) (01085)	ZINC, DIS- SOLVED (mg/L as Zn) (01090)	ANTI- MONY, DIS- SOLVED (mg/L as Sb) (01095)	ALUM- INUM, DIS- SOLVED (mg/L as Al) (01106)	LITHIUM, DIS- SOLVED (mg/L as Li) (01130)	SELE- NIUM, DIS- SOLVED (mg/L as Se) (01145)	PROP- CHLOR, WATER, DISS, REC (μg/L) (04024)		
OCT 21...	3	3	<1	350	7	<1	<1	5	24	<1	<0.007		
DEC 16...	2	2	<1	270	<6	<1	<1	11	15	1	<0.007		
JAN 27...	2	2	<1	250	<6	2	<1	54	13	<1	<0.007		
FEB 24...	2	2	<1	230	<6	<1	<1	37	16	<1	<0.007		
MAR 12...	1	2	<1	170	<6	<1	<1	38	7	<1	<0.007		
	26...	1	2	<1	190	<6	<1	12	7	<1	<0.007		
APR 15...	2	2	<1	230	<6	<1	<1	24	16	<1	<0.007		
	28...	--	--	--	--	--	--	--	--	--	<0.007		
MAY 22...	2	2	<1	270	<6	<1	<1	10	19	2	<0.007		
JUN 11...	3	2	<1	270	<6	1	<1	6	19	2	<0.007		
JUL 09...	3	2	<1	300	<6	1	<1	3	21	1	<0.007		
	21...	3	2	<1	300	<6	2	<1	4	23	1	<0.007	
AUG 13...	3	2	<1	310	<6	<1	<1	5	27	1	--		
	20...	3	2	<1	320	<6	<1	7	30	1	<0.007		
SEP 17...	3	2	<1	340	<6	5	<1	6	31	2	<0.007		

## 07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	BUTYL-	SI-	PRO-	DEETHYL	CYANA-	URANIUM	ALPHA BHC (mg/L as U)	P,P' DDE (μg/L)	CHLOR-	PYRIPOS	LINDANE	
	ATE, WATER, DISS, REC (μg/L) (04028)	MAZINE, WATER, DISS, REC (μg/L) (04035)	METON, WATER, DISS, REC (μg/L) (04037)	ATRA- ZINE, WATER, DISS, REC (μg/L) (04040)	ZINE, WATER, DISS, REC (μg/L) (04041)	FONOFOSS WATER DISS REC (μg/L) (04095)		DIS- SOLVED (μg/L) (22703)	DIS- SOLVED (μg/L) (34253)	DISSOLV (μg/L) (34653)	SOLVED (μg/L) (38933)	
OCT 21...	<0.002	<0.005	E0.008	E0.004	<0.004	<0.003	3	<0.002	<0.004	<0.004	<0.001	
DEC 16...	<0.002	0.009	E0.008	E0.026	0.030	<0.003	3	<0.002	<0.004	<0.004	<0.001	
JAN 27...	<0.002	0.008	E0.007	E0.008	0.015	<0.003	2	<0.002	0.006	<0.004	<0.001	
FEB 24...	<0.002	0.006	E0.008	E0.032	0.035	<0.003	2	<0.002	<0.004	<0.004	<0.001	
MAR 12...	<0.002	0.008	E0.006	E0.024	0.044	<0.003	1	<0.002	<0.004	<0.004	<0.001	
	26...	<0.002	0.008	E0.004	E0.020	0.025	<0.003	2	<0.002	E0.002	<0.004	<0.001
APR 15...	<0.002	0.008	E0.004	E0.015	0.066	<0.003	1	<0.002	<0.004	<0.004	<0.001	
	28...	<0.002	0.008	E0.003	E0.015	0.049	<0.003	--	<0.002	E0.003	<0.004	<0.001
MAY 22...	<0.002	0.012	E0.007	E0.022	0.142	<0.003	4	<0.002	<0.004	<0.004	<0.001	
JUN 11...	<0.002	0.136	E0.009	E0.080	0.503	<0.003	3	<0.002	<0.004	<0.004	<0.001	
JUL 09...	<0.002	0.025	E0.013	E0.088	0.222	<0.003	3	<0.002	<0.004	<0.004	<0.001	
	21...	<0.002	0.008	E0.004	E0.018	0.026	<0.003	3	<0.002	E0.003	<0.004	E0.003
AUG 13...	--	--	--	--	--	--	3	--	--	--	--	
	20...	<0.002	0.009	E0.011	E0.027	0.030	<0.003	3	<0.002	<0.004	<0.004	<0.001
SEP 17...	<0.002	0.006	E0.008	E0.015	0.021	<0.003	3	<0.002	<0.004	<0.004	<0.001	
DATE	DI- ELDRIN DIS- SOLVED (μg/L) (39381)	METO- LACHLOR WATER DISSOLV (μg/L) (39415)	MALA- THION, WATER DISSOLV (μg/L) (39532)	PARA- THION, DIS- SOLVED (μg/L) (39542)	DI- AZINON, DIS- SOLVED (μg/L) (39572)	ATRA- ZINE, WATER, DISS, REC (μg/L) (39632)	ALA- CHLOR, WATER, DISS, REC, (μg/L) (39632)	ACETO- CHLOR, WATER DEG. C FLTRD REC, (μg/L) (46342)	SOLIDs, RESIDUE AT 180 TUENTS, FLTRD REC, (μg/L) (49260)	SOLIDs, SUM OF CONSTI- TUENTS, DIS- SOLVED (TONS PER DAY) (70300)	SOLIDs, DIS- SOLVED (TONS PER DAY) (70301)	SOLIDs, (70302)
OCT 21...	<0.001	0.052	<0.005	<0.004	<0.002	0.170	0.005	0.012	408	389	137000	
DEC 16...	<0.001	0.074	0.010	<0.004	0.007	0.214	0.010	0.020	339	326	175000	
JAN 27...	<0.001	0.092	0.039	<0.004	0.093	0.192	0.010	0.022	347	336	151000	
FEB 24...	<0.001	0.103	<0.005	<0.004	<0.002	0.139	0.006	0.041	308	295	367000	
MAR 12...	<0.001	0.280	<0.005	<0.004	<0.002	0.220	0.014	0.084	248	252	271000	
	26...	<0.001	0.423	<0.005	<0.004	E0.004	0.177	0.009	0.031	286	287	265000
APR 15...	<0.001	0.396	<0.005	<0.004	E0.002	0.406	0.014	0.059	318	297	380000	
	28...	<0.001	0.262	0.006	<0.004	0.038	0.244	0.007	0.031	275	--	--
MAY 22...	<0.001	0.430	<0.005	<0.004	<0.002	0.625	0.022	0.200	354	341	271000	
JUN 11...	<0.001	0.801	<0.005	<0.004	<0.002	1.99	0.050	0.244	360	345	239000	
JUL 09...	<0.001	0.760	<0.005	<0.004	<0.002	2.05	0.045	0.091	384	356	247000	
	21...	E0.003	0.412	<0.005	<0.004	0.004	0.172	0.009	0.029	380	357	226000
AUG 13...	--	--	--	--	--	--	--	--	385	447	182000	
	20...	<0.001	0.092	<0.005	<0.004	E0.002	0.243	0.008	0.016	405	375	210000
SEP 17...	<0.001	0.057	<0.005	<0.004	E0.003	0.157	0.004	0.008	406	387	155000	

E--Laboratory estimated value.

## 07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	SIEVE DIAM. % FINER THAN .062 mm (70331)	SED. SUSP. AMMONIA DIS- SOLVED (mg/L) (71846)	NITRO- GEN, NITRATE DIS- SOLVED (mg/L) (71851)	NITRO- GEN, NITRATE DIS- SOLVED (mg/L) (71856)	SEDI- MENT, SUS- PENDED (mg/L) (80154)	SEDI- MENT, CHARGE, SUS- PENDED (T/DAY) (80155)	METRI- BUZIN WATER DISSOLV (µg/L) (82630)	2,6-DI- ETHYL ANILINE GF, REC (µg/L) (82660)	TRI- FLUR- ALIN WAT FLT GF, REC (µg/L) (82661)	ETHAL- FLUR- ALIN WAT FLT GF, REC (µg/L) (82663)	PHORATE WATER FLTRD GF, REC (µg/L) (82664)	
OCT 21...	93	0.10	3.3	0.10	141	47200	<0.004	<0.003	<0.002	<0.004	<0.002	
DEC 16...	78	0.14	9.2	0.07	152	78400	<0.004	<0.003	<0.002	<0.004	<0.002	
JAN 27...	72	0.33	9.6	0.10	206	89500	0.005	<0.003	<0.002	<0.004	<0.002	
FEB 24...	83	0.24	8.8	0.07	1760	2100000	0.006	<0.003	<0.002	<0.004	<0.002	
MAR 12...	64	0.32	10	0.10	397	434000	<0.010	<0.003	<0.002	<0.004	<0.002	
	26...	87	0.19	11	0.12	211	195000	<0.004	<0.003	0.005	<0.004	<0.002
APR 15...	89	0.05	10	0.10	960	1150000	<0.004	<0.003	E0.004	<0.004	<0.002	
	28...	--	0.04	9.2	0.08	--	--	0.005	<0.003	E0.004	<0.004	<0.002
MAY 22...	88	0.08	11	0.07	254	195000	<0.008	<0.003	E0.004	<0.004	<0.002	
JUN 11...	89	0.04	11	0.10	165	110000	0.018	<0.003	0.004	<0.004	<0.002	
JUL 09...	86	--	13	0.05	285	183000	<0.004	<0.003	<0.002	<0.004	<0.002	
	21...	88	--	8.6	0.08	186	110000	<0.004	<0.003	0.005	<0.004	<0.002
AUG 13...	85	--	5.7	0.06	126	59500	--	--	--	--	--	
	20...	85	0.04	4.0	0.06	127	65800	<0.004	E0.001	E0.002	<0.004	<0.002
SEP 17...	93	--	--	--	138	52500	<0.004	<0.003	<0.002	<0.004	<0.002	
DATE	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	METHYL PARA- WATER WAT FLT 0.7 µ GF, REC (µg/L) (82667)	EPTC WATER FLTRD GF, REC (µg/L) (82668)	PEB- ULATE WATER GF, REC (µg/L) (82669)	TEBU- THIURON WATER GF, REC (µg/L) (82670)	MOL- INATE WATER GF, REC (µg/L) (82671)	ETHO- PROP WATER GF, REC (µg/L) (82672)	BEN- FLUR- ALIN GF, REC (µg/L) (82673)	CARBO- FURAN WATER GF, REC (µg/L) (82674)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	
OCT 21...	<0.007	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	
DEC 16...	<0.007	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	
JAN 27...	<0.007	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	
FEB 24...	<0.007	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.010	<0.013	<0.003	
MAR 12...	<0.007	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	
	26...	<0.007	<0.006	E0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.013	<0.003	
APR 15...	<0.007	<0.006	E0.001	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	
	28...	<0.007	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.013	<0.003	
MAY 22...	<0.007	<0.006	E0.003	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	
JUN 11...	<0.007	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	
JUL 09...	<0.007	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	
	21...	<0.007	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.013	<0.003	
AUG 13...	--	--	--	--	--	--	--	--	--	--	--	
	20...	<0.007	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	E0.002	<0.003	<0.013	<0.003
SEP 17...	<0.007	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	

E--Laboratory estimated value.

## MISSISSIPPI RIVER MAIN STEM

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	DISUL-	TRIAL-	PRO-	CAR-	THIO-	PENDI-	NAPROP-	PRO-	METHYL	PER-
	FOTON WATER FLTRD 0.7 $\mu$	LATE WATER FLTRD 0.7 $\mu$	PANIL WATER FLTRD 0.7 $\mu$	BARYL WATER FLTRD 0.7 $\mu$	BENCARB WATER FLTRD 0.7 $\mu$	DCPA WATER FLTRD 0.7 $\mu$	METH- ALIN WAT FLT	AMIDE WATER FLTRD 0.7 $\mu$	PARGITE WATER FLTRD 0.7 $\mu$	AZIN- PHOS WAT FLT
GF, REC ( $\mu$ g/L)	GF, REC ( $\mu$ g/L)	GF, REC ( $\mu$ g/L)	GF, REC ( $\mu$ g/L)	GF, REC ( $\mu$ g/L)	GF, REC ( $\mu$ g/L)	GF, REC ( $\mu$ g/L)	GF, REC ( $\mu$ g/L)	GF, REC ( $\mu$ g/L)	GF, REC ( $\mu$ g/L)	PER- CIS WAT FLT ( $\mu$ g/L)
OCT 21...	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001 <0.005
DEC 16...	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001 <0.005
JAN 27...	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001 <0.005
FEB 24...	<0.017	<0.001	<0.004	E0.024	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001 <0.005
MAR 12...	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001 <0.005
	26...	<0.017	<0.001	<0.004	<0.003	<0.002	E0.001	<0.004	<0.003	<0.013 <0.001 <0.005
APR 15...	<0.017	<0.001	<0.004	<0.003	<0.002	E0.001	<0.004	<0.003	<0.013	<0.001 <0.005
	28...	<0.017	<0.001	<0.004	<0.003	<0.002	E0.001	<0.004	<0.003	<0.013 <0.001 <0.005
MAY 22...	<0.017	<0.001	<0.004	<0.003	<0.002	E0.001	<0.004	<0.003	<0.013	<0.001 <0.005
JUN 11...	<0.017	<0.001	<0.004	<0.003	<0.002	E0.001	<0.004	<0.003	<0.013	<0.001 <0.005
JUL 09...	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001 <0.005
	21...	<0.017	<0.001	<0.004	<0.003	<0.002	E0.001	<0.004	<0.003	<0.013 <0.001 <0.005
AUG 13...	--	--	--	--	--	--	--	--	--	--
	20...	<0.017	<0.001	<0.004	<0.003	<0.002	E0.001	<0.004	<0.003	<0.013 <0.001 <0.005
SEP 17...	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001 <0.005

E--Laboratory estimated value.

## 07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

## SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MEAN DISCHARGE (CFS)			MEAN DISCHARGE (CFS)			MEAN DISCHARGE (CFS)		
	CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)	CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)	CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)	CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)	
	OCTOBER			NOVEMBER			DECEMBER		
1	177000	571	273000	182000	355	175000	257000	419	290000
2	182000	593	291000	182000	377	185000	245000	389	257000
3	176000	619	293000	186000	334	168000	248000	346	231000
4	168000	667	302000	196000	236	125000	264000	313	224000
5	158000	665	283000	200000	236	127000	272000	316	232000
6	154000	593	246000	188000	219	111000	269000	319	231000
7	148000	495	198000	185000	256	128000	259000	322	225000
8	138000	236	88000	206000	303	169000	251000	293	198000
9	127000	218	74600	232000	337	211000	238000	271	174000
10	121000	218	71300	253000	371	254000	223000	267	161000
11	122000	212	70100	250000	442	298000	219000	232	137000
12	123000	211	69800	241000	368	239000	214000	194	112000
13	122000	199	65600	232000	298	187000	205000	210	116000
14	121000	179	58400	223000	259	156000	196000	248	131000
15	120000	184	59500	206000	218	121000	189000	221	113000
16	119000	186	59600	191000	207	106000	191000	193	99600
17	117000	196	62200	183000	198	97500	191000	195	101000
18	120000	201	65100	177000	166	79400	188000	218	111000
19	126000	191	65100	177000	154	73300	182000	184	90500
20	126000	175	59400	178000	176	84600	177000	182	87100
21	124000	154	51600	209000	280	159000	160000	147	63600
22	128000	169	58300	259000	356	250000	147000	143	57000
23	138000	171	63700	268000	556	402000	146000	156	61200
24	142000	180	69100	260000	881	619000	147000	184	73200
25	139000	176	65700	259000	909	659000	144000	157	60800
26	139000	151	56800	293000	708	560000	134000	153	55100
27	161000	192	83600	290000	584	456000	126000	153	52000
28	193000	267	140000	282000	490	372000	126000	138	46800
29	197000	255	135000	282000	406	309000	125000	132	44600
30	187000	271	137000	272000	360	264000	125000	144	48700
31	182000	287	141000	---	---	---	126000	125	42800
	JANUARY			FEBRUARY			MARCH		
1	132000	117	41800	195000	267	140000	604000	1190	1940000
2	140000	123	46600	180000	207	100000	628000	1030	1750000
3	141000	135	51600	171000	179	82300	630000	884	1500000
4	142000	133	51000	176000	172	81500	604000	731	1190000
5	142000	139	53200	190000	192	98600	571000	612	943000
6	140000	135	50700	195000	221	117000	544000	538	790000
7	136000	156	57300	206000	240	134000	514000	539	747000
8	136000	145	53200	214000	212	123000	486000	504	660000
9	133000	131	46700	216000	226	131000	459000	474	587000
10	133000	124	44500	214000	216	125000	433000	344	402000
11	136000	122	45000	207000	201	112000	415000	315	353000
12	128000	121	41900	195000	172	90500	406000	409	448000
13	120000	120	38900	184000	175	86600	400000	422	457000
14	124000	119	39700	179000	173	83900	410000	428	474000
15	129000	117	40700	181000	171	84000	420000	371	422000
16	129000	116	40500	181000	169	82800	429000	422	490000
17	124000	115	38300	176000	167	79500	431000	360	419000
18	120000	113	36700	172000	165	76800	424000	313	358000
19	118000	112	35700	166000	163	73100	414000	307	344000
20	119000	115	38100	160000	161	69800	398000	283	304000
21	126000	159	56400	166000	179	80800	383000	273	282000
22	129000	267	107000	210000	268	153000	373000	331	334000
23	135000	271	119000	338000	481	442000	368000	303	301000
24	149000	239	106000	431000	1340	1560000	360000	311	302000
25	152000	213	96600	487000	1630	2150000	350000	306	289000
26	159000	217	101000	523000	1460	206000	345000	294	274000
27	161000	221	100000	558000	1530	231000	341000	245	225000
28	177000	224	107000	587000	1420	2250000	342000	225	208000
29	189000	253	129000	---	---	---	344000	223	207000
30	201000	287	156000	---	---	---	339000	217	198000
31	207000	303	169000	---	---	---	334000	233	210000

## MISSISSIPPI RIVER MAIN STEM

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MEAN DISCHARGE (CFS)			MEAN DISCHARGE (CFS)			MEAN DISCHARGE (CFS)		
	CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)	CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)	CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)	CONCEN- TRATION (mg/L)	SEDIMENT DISCHARGE (TONS/DAY)	
	APRIL			MAY			JUNE		
1	330000	245	219000	459000	433	536000	428000	602	696000
2	327000	198	174000	451000	431	526000	409000	598	660000
3	321000	157	136000	445000	351	422000	380000	531	543000
4	319000	177	153000	439000	342	406000	339000	413	377000
5	336000	192	174000	435000	344	404000	324000	332	290000
6	352000	196	186000	436000	365	430000	307000	279	231000
7	351000	201	190000	436000	592	696000	293000	270	213000
8	345000	187	174000	430000	714	829000	279000	265	200000
9	342000	213	197000	416000	713	801000	266000	226	162000
10	347000	274	257000	398000	593	637000	258000	208	145000
11	355000	266	255000	380000	468	480000	247000	206	137000
12	358000	292	282000	375000	496	502000	242000	186	122000
13	362000	269	263000	377000	443	450000	237000	166	106000
14	391000	379	402000	374000	547	552000	248000	196	131000
15	439000	899	1070000	362000	716	699000	256000	230	159000
16	477000	1340	1730000	346000	784	732000	268000	176	127000
17	498000	1020	1380000	330000	595	529000	267000	195	141000
18	507000	754	1030000	316000	440	375000	268000	239	173000
19	513000	644	892000	290000	345	282000	275000	282	209000
20	516000	662	921000	294000	350	278000	279000	229	178000
21	520000	694	974000	287000	321	249000	292000	250	197000
22	522000	709	999000	284000	293	225000	287000	310	240000
23	516000	609	849000	283000	255	195000	277000	299	223000
24	513000	472	654000	281000	248	188000	275000	280	208000
25	506000	451	617000	276000	245	183000	284000	357	274000
26	501000	461	624000	273000	255	188000	281000	395	300000
27	497000	435	584000	276000	287	214000	271000	258	189000
28	492000	447	593000	288000	259	201000	275000	204	151000
29	483000	492	641000	317000	378	325000	275000	189	140000
30	469000	415	525000	343000	589	547000	275000	210	156000
31	---	---	---	407000	837	922000	---	---	---
	JULY			AUGUST			SEPTEMBER		
1	275000	296	220000	213000	144	82600	180000	125	60700
2	273000	476	351000	207000	142	79200	177000	122	58300
3	269000	525	381000	199000	157	84600	174000	121	56700
4	268000	602	436000	194000	174	91200	168000	124	57800
5	265000	448	321000	195000	177	93400	169000	123	55800
6	265000	375	268000	197000	165	87800	169000	110	50400
7	260000	328	230000	197000	172	91400	167000	110	49700
8	246000	277	184000	196000	176	93500	164000	111	49400
9	238000	240	154000	193000	141	73400	168000	100	45500
10	231000	238	148000	189000	139	70800	164000	108	48900
11	226000	237	145000	183000	128	63500	169000	130	59100
12	228000	235	145000	178000	140	67100	164000	179	79600
13	225000	216	131000	175000	148	69800	160000	222	95800
14	223000	197	119000	177000	129	61700	156000	192	80900
15	222000	194	116000	181000	128	62600	152000	158	64900
16	222000	197	118000	177000	123	58900	144000	140	54400
17	223000	208	125000	173000	139	64800	141000	147	55800
18	221000	223	133000	169000	143	65100	143000	131	50800
19	223000	196	118000	178000	171	82100	150000	137	55300
20	224000	172	104000	191000	175	90200	153000	129	53100
21	221000	188	112000	201000	169	91700	157000	143	60600
22	218000	164	96100	202000	160	87500	160000	151	65100
23	217000	136	79800	194000	149	78200	161000	147	63700
24	227000	149	91600	188000	134	67800	158000	158	67300
25	236000	140	89100	182000	134	65900	156000	142	59600
26	229000	134	82700	177000	135	64600	160000	135	58700
27	215000	138	80200	175000	134	63300	161000	139	59900
28	206000	143	79300	175000	136	64400	159000	173	74200
29	208000	155	87100	175000	133	62900	160000	160	69300
30	212000	163	93200	176000	131	62000	162000	146	64000
31	215000	153	88900	175000	128	60300	---	---	---