07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

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.--Discontinued as national stream-quality accounting network station, September 1986. Samples are analyzed by the Illinois Environmental Protection Agency. Sediment records good.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 705 microsiemens, Aug. 5-7, 1980; minimum daily, 272 microsiemens, 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 CONCENTRATONS: 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, 966 mg/L, May 13; minimum daily mean, 76 mg/L, Jan. 10.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 1,690,000 tons, May 20; minimum daily, 19,800 tons, Jan. 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	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)
NOV											
02...	0700	1028	17002	145000.	546	7.75	11.0	9.7	9.8	89	--
JAN											
12...	0900	1028	17002	95200	628	8.12	4.0	4.7	13.8	104	290
MA											
21...	0900	1028	17002	234000.	536	7.97	12.0	13	10.5	95	220
MAY											
23...	1030	1028	17002	855000.	309	7.58	19.0	49	6.3	67	1200
JUL											
27...	0900	1028	17002	251000.	513	7.76	26.5	27	5.5	69	1000
SEP											
06...	0900	1028	17002	165000.	586	8.01	26.5	4.2	6.4	80	250

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS $CACO_3$) (00900)	HARD-NESS NONCARB WH WAT TOT FLD (MG/L AS $CACO_3$) (00902)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV											
02...	64	230	75	58	56	22	21	31	32	4.3	4.3
JAN											
12...	300	260	83	68	65	24	23	34	33	4.1	4.1
MAR											
21...	K51	240	94	62	58	25	24	26	27	4.2	4.1
MAY											
23...	2100	140	62	42	38	14	11	9.0	8.5	5.6	4.0
JUL											
27...	280	240	93	65	61	22	20	30	30	6.4	5.3
SEP											
06...	K64	230	83	61	58	22	21	39	39	5.8	5.4

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 1994 TO SEPTEMBER 1995

DATE	ALKA-LINITY WAT WH TOT IT FIELD (MG/L AS $CACO_3$) (00419)	BICAR-BONATE WATER WH IT FIELD (MG/L AS HCO_3) (00450)	CAR-BONATE WATER WH IT FIELD (MG/L AS CO_3) (00447)	SULFATE DIS-SOLVED (MG/L AS SO_4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, NO_2+NO_3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	AMMONIA UN-IONIZED (MG/L AS N) (00619)
NOV											
02...	161	196	0	86	22	0.3	83	9	1.66	0.060	<0.001
JAN											
12...	186	227	0	68	28	0.2	47	7	1.87	0.190	0.003
MAR											
21...	164	200	0	77	30	0.2	138	16	--	0.150	0.003
MAY											
23...	101	123	0	28	9.7	0.2	250	22	1.80	0.090	0.001
JUL											
27...	160	195	0	84	20	0.3	306	30	3.50	<0.010	<0.001
SEP											
06...	161	196	0	110	24	0.3	172	16	4.60	0.110	0.007

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ALUM-INUM, TOTAL RECOV-ERABLE (µG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (µG/L AS AL) (01106)	ARSENIC TOTAL (µG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (µG/L AS BA) (01007)	BARIUM, DIS-SOLVED (µG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (µG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (µG/L AS BE) (01010)
NOV										
02...	0.75	0.180	0.110	1400	<100	2	92	70	<1.0	<1
JAN										
12...	0.94	0.150	0.060	680	<100	<1	89	74	<1.0	<1
MAR										
21...	1.50	--	0.050	1800	<100	2	92	65	<1.0	<1
MAY										
23...	0.95	0.340	0.080	7900	110	3	200	70	<1.0	<1
JUL										
27...	0.85	0.300	0.110	4900	<100	3	200	110	<1.0	<1
SEP										
06...	0.95	0.270	0.140	2200	110	4	100	99	<1.0	<1

DATE	BORON, TOTAL RECOV-ERABLE (µG/L AS B) (01022)	BORON, DIS-SOLVED (µG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (µG/L AS CD) (01027)	CADMIUM DIS-SOLVED (µG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (µG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (µG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (µG/L AS CO) (01037)	COBALT, DIS-SOLVED (µG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	COPPER, DIS-SOLVED (µG/L AS CU) (01040)
NOV										
02...	70	--	<3	<3.0	<5	<5	<10	<10	<5	<5
JAN										
12...	80	70	<3	<3.0	<5	<5	<10	<10	<5	<5
MAR										
21...	70	60	<3	<3.0	<5	<5	<10	<10	7	<5
MAY										
23...	40	30	<3	<3.0	11	<5	<10	<10	15	<10
JUL										
27...	70	60	<3	<3.0	6	<5	<10	<10	15	<10
SEP										
06...	100	100	<3	<3.0	<5	<5	<10	<10	18	14

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	IRON, DIS-SOLVED (µG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	LEAD, DIS-SOLVED (µG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (µG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	SILVER, TOTAL RECOV-ERABLE (µG/L AS AG) (01077)
NOV										
02...	1900	<50	<5	<5	150	<15	<0.05	<15	<15	<3
JAN										
12...	1200	<50	46	<5	90	19	<0.05	<15	<15	<3
MAR										
2...	3100	<50	10	<5	200	<15	<0.05	<15	<15	<3
MAY										
23...	11000	160	<5	<5	360	<15	--	18	<15	3
JUL										
27...	5900	<50	57	<5	320	<15	--	<25	<25	<3
SEP										
06...	3400	66	16	<5	280	<15	--	<25	<25	<3

DATE	SILVER, DIS-SOLVED (µG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (µG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (µG/L AS SR) (01080)	VANA-DIUM, TOTAL (µG/L AS V) (01087)	VANA-DIUM, DIS-SOLVED (µG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (µG/L) (32730)
NOV										
02...	3.0	260	250	7	<5	140	<100	5.9	<0.010	<10
JAN										
12...	<3.0	290	280	<5	<5	<100	<100	4.1	<0.010	<10
MAR										
21...	<3.0	210	200	6	<5	<100	<100	4.8	<0.010	<10
MAY										
23...	<3.0	140	120	21	<5	<100	<100	26	<0.010	<10
JUL										
27...	<3.0	310	290	13	<5	<100	<100	4.3	0.010	<10
SEP										
06...	3.0	320	310	8	<5	180	130	5.4	<0.010	<10

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

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	159000	110	47100	143000	116	44600	181000	146	71100
2	163000	108	47600	144000	107	41600	184000	146	72300
3	165000	93	41500	143000	104	40200	186000	149	74500
4	163000	97	42900	150000	127	51700	183000	156	77000
5	162000	94	41100	182000	206	102000	181000	155	75600
6	154000	88	36600	196000	295	156000	180000	117	57000
7	144000	85	33100	195000	247	130000	177000	124	59300
8	135000	92	33400	193000	172	89900	172000	122	56600
9	133000	107	38700	201000	173	93800	182000	142	70100
10	138000	110	40900	210000	131	74300	207000	157	87600
11	139000	123	46300	219000	123	72900	205000	167	92300
12	133000	114	41000	220000	209	124000	203000	192	105000
13	128000	98	34000	211000	249	142000	190000	212	109000
14	129000	108	37600	197000	190	101000	173000	232	108000
15	133000	139	49900	189000	168	85800	164000	192	84700
16	130000	160	56300	178000	183	88300	158000	151	64400
17	129000	155	53700	164000	160	70700	147000	135	53300
18	129000	154	53500	157000	121	51300	136000	120	44000
19	127000	136	46700	155000	139	58000	135000	118	43100
20	127000	86	29500	152000	140	57300	141000	128	49100
21	126000	91	31000	151000	124	50700	142000	141	53900
22	123000	100	33300	157000	148	63000	136000	149	55000
23	123000	102	33800	186000	196	99400	145000	143	56200
24	127000	107	36900	220000	249	148000	152000	124	50800
25	131000	164	58300	224000	291	176000	151000	104	42400
26	134000	116	41800	210000	325	183000	153000	110	45400
27	135000	128	46800	196000	332	176000	152000	145	59600
28	135000	139	50400	200000	270	146000	150000	136	54800
29	136000	121	44700	196000	210	111000	148000	114	45700
30	138000	116	43000	186000	151	75800	144000	106	41100
31	141000	117	44300	---	---	---	139000	115	43000
		JANUARY			FEBRUARY			MARCH	
1	135000	154	56100	227000	227	139000	150000	178	72500
2	129000	126	44200	217000	233	136000	156000	234	99000
3	126000	118	40000	212000	223	128000	167000	231	104000
4	119000	120	38600	219000	215	127000	172000	301	140000
5	108000	95	27600	242000	214	140000	169000	224	102000
6	97500	93	24500	257000	239	166000	160000	207	89400
7	91900	90	22300	238000	216	138000	168000	232	106000
8	93500	94	23700	210000	185	105000	206000	428	241000
9	96100	91	23600	191000	162	83400	237000	510	326000
10	96800	76	19800	179000	161	77800	238000	548	352000
11	93100	82	20500	177000	166	79000	232000	407	255000
12	95800	81	21000	178000	170	81700	226000	324	198000
13	101000	101	27600	169000	175	79800	206000	256	142000
14	114000	151	47400	151000	180	73300	186000	258	129000
15	154000	286	122000	142000	184	70200	180000	293	142000
16	231000	407	256000	140000	179	67500	182000	269	132000
17	269000	402	292000	138000	164	61000	188000	267	135000
18	264000	316	225000	138000	149	55400	200000	204	110000
19	262000	280	198000	139000	134	50500	213000	213	123000
20	260000	259	182000	141000	128	48700	230000	230	143000
21	248000	219	146000	140000	139	52400	238000	254	163000
22	223000	220	132000	137000	119	44000	234000	279	176000
23	211000	204	116000	132000	116	41100	224000	330	199000
24	207000	183	102000	134000	120	43700	219000	368	218000
25	197000	154	82000	137000	135	49900	221000	342	204000
26	185000	151	75600	137000	170	62900	224000	317	192000
27	184000	154	76600	140000	173	65500	228000	312	192000
28	184000	168	83500	146000	199	78800	236000	382	244000
29	190000	185	95100	---	---	---	238000	384	247000
30	208000	214	121000	---	---	---	240000	320	207000
31	227000	214	131000	---	---	---	242000	271	177000

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

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	244000	289	191000	379000	438	450000	801000	371	803000
2	254000	391	269000	417000	583	659000	799000	359	776000
3	259000	489	342000	440000	768	915000	789000	356	758000
4	254000	454	311000	460000	819	1020000	773000	346	722000
5	248000	401	269000	470000	735	933000	756000	357	728000
6	243000	360	236000	472000	638	813000	743000	322	646000
7	240000	318	206000	467000	546	689000	724000	313	611000
8	236000	329	209000	460000	528	656000	705000	334	636000
9	233000	305	192000	464000	429	538000	686000	312	578000
10	228000	261	161000	475000	474	609000	667000	332	596000
11	225000	284	172000	492000	555	738000	651000	357	627000
12	236000	298	191000	514000	720	1000000	635000	330	565000
13	259000	382	268000	536000	966	1400000	621000	346	579000
14	296000	469	378000	564000	949	1440000	606000	380	622000
15	329000	688	612000	582000	841	1320000	591000	393	626000
16	346000	829	774000	594000	683	1100000	579000	439	686000
17	347000	896	840000	609000	788	1300000	567000	321	491000
18	340000	814	747000	672000	758	1380000	555000	379	568000
19	335000	648	586000	754000	777	1580000	536000	394	570000
20	343000	633	586000	803000	778	1690000	513000	381	527000
21	364000	722	710000	844000	718	1640000	489000	435	574000
22	383000	677	700000	855000	687	1590000	462000	427	532000
23	392000	653	691000	856000	518	1200000	438000	402	476000
24	392000	539	570000	848000	504	1150000	419000	396	448000
25	388000	464	486000	831000	436	977000	404000	421	459000
26	380000	449	460000	813000	387	848000	392000	383	406000
27	374000	414	418000	805000	429	934000	385000	404	420000
28	371000	442	443000	806000	433	941000	380000	420	431000
29	368000	452	449000	802000	421	911000	392000	412	436000
30	365000	428	422000	799000	525	1130000	404000	448	489000
31	---	---	---	798000	423	912000	---	---	---
	JULY			AUGUST			SEPTEMBER		
1	403000	470	512000	224000	192	116000	189000	136	69200
2	401000	454	491000	222000	192	115000	179000	141	68200
3	394000	459	489000	226000	213	130000	171000	138	63900
4	385000	487	506000	235000	210	133000	164000	155	68800
5	372000	466	467000	249000	216	145000	160000	168	72900
6	356000	454	436000	272000	219	161000	162000	180	78600
7	354000	459	438000	290000	286	225000	163000	169	74600
8	371000	515	517000	315000	410	351000	163000	159	70400
9	388000	588	617000	321000	504	437000	170000	182	83600
10	401000	671	727000	295000	409	326000	179000	177	85500
11	404000	765	834000	264000	335	239000	182000	171	83800
12	392000	810	857000	250000	257	174000	179000	165	79700
13	379000	701	718000	250000	191	129000	172000	159	73900
14	361000	575	561000	244000	165	109000	167000	153	69200
15	336000	497	451000	230000	167	103000	161000	148	64100
16	313000	415	351000	212000	174	99700	152000	143	58700
17	294000	365	289000	197000	177	94500	146000	138	54400
18	278000	314	236000	203000	170	93400	143000	137	52600
19	267000	248	178000	230000	184	115000	139000	148	55500
20	258000	236	164000	239000	194	125000	134000	153	55600
21	254000	213	146000	233000	192	121000	133000	138	49700
22	250000	195	131000	226000	216	131000	132000	157	55900
23	247000	180	120000	219000	251	148000	131000	164	57900
24	248000	196	131000	216000	278	162000	131000	156	55200
25	250000	201	136000	213000	269	155000	132000	176	62700
26	248000	207	138000	209000	239	135000	129000	177	61700
27	251000	298	202000	208000	199	112000	127000	178	61100
28	246000	349	232000	205000	198	110000	131000	190	67500
29	241000	320	209000	203000	204	112000	143000	208	80300
30	234000	266	168000	201000	176	95600	144000	193	75500
31	227000	229	140000	197000	140	74700	---	---	---