06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1979 to September 1993, November 1994 to current year, formerly published as 06918080 Osage River near Schell City, Missouri.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1979 to September 1981.
WATER TEMPERATURE: March 1979 to September 1981.
SUSPENDED-SEDIMENT: February 1991 to current year.

REMARKS.--Sediment records fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,950 microsiemens, Oct. 11, 1980; minimum daily, 114 microsiemens, June 12, 1981.
WATER TEMPERATURE: Maximum daily, 32.0° C, July 11, 1980; minimum daily, 0.0° C, Feb. 5, 1980, and Feb. 11-14, 1981.
SUSPENDED-SEDIMENT CONCENTRATONS: Maximum daily mean, 2,760 mg/L, Apr. 17, 1992; minimum daily mean, 8 mg/L, Aug. 4 and 5, 1993, and Jan. 10-12, 1995.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 105,000 tons, Apr. 11, 1994; minimum daily, 1.7 tons, Nov. 7-13, 1991.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,700 mg/L, Aug. 4; minimum daily mean, 8 mg/L, Jan. 10-12.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 88,600 tons, May 9; minimum daily, 15 tons, Jan. 11.

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

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)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	COLI-FORM, FECAL, 0.7 µM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ALKA-LINITY WAT WH TOT IT FIELD MG/L AS $CACO_3$ (00419)
NOV											
29...	1300	13900	7.5	243	7.30	9.70	79	<10	K5	7000	83
MAR											
07...	1630	1430	3.5	544	8.00	13.8	105	--	124	420	152
APR											
13...	1330	1860	14.0	663	7.40	9.10	88	--	K1620	430	136
25...	1100	--	--	--	--	--	--	--	--	--	--
MAY											
16...	1600	13900	20.5	328	7.70	6.50	73	--	220	400	110
JUN											
27...	1630	45400	21.5	276	7.50	6.10	69	10	740	860	84
AUG											
22...	1310	822	29.0	397	7.82	5.00	66	<10	46	50	142

DATE	BICAR-BONATE WATER WH IT FIELD MG/L AS HCO_3 (00450)	CAR-BONATE WATER WH IT FIELD MG/L AS CO_3 (00447)	NITRO-GEN, NO_2+NO_3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	HARD-NESS TOTAL (mg/L AS $CACO_3$) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV											
29...	102	0	0.430	0.040	0.120	1.3	0.280	0.220	110	34	5.1
MAR											
07...	182	0	0.370	0.010	0.060	0.78	0.110	0.030	--	--	--
APR											
13...	166	0	0.230	0.010	0.120	0.94	0.170	0.030	--	--	--
MAY											
16...	134	0	0.510	0.030	0.090	0.94	0.130	0.070	--	--	--
JUN											
27...	103	0	0.640	0.010	0.090	0.97	0.140	0.090	110	35	6.2
AUG											
22...	173	0	0.670	0.010	0.030	0.78	0.150	0.090	170	51	9.2

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

06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--Continued

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

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO_4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	ALUM-INUM, TOTAL RECOV-ERABLE (µG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (µG/L AS AL) (01106)	CADMIUM TOTAL RECOV-ERABLE (µG/L AS CD) (01027)	CADMIUM DIS-SOLVED (µG/L AS CD) (01025)
NOV											
29...	5.7	3.4	32	6.7	0.10	152	270	5600	20	<1	<1.0
JUN											
27...	7.1	3.9	35	6.5	0.20	172	140	2800	160	1	1.0
AUG											
22...	14	3.9	55	8.5	0.30	244	82	1800	<20	<1	<1.0

DATE	COPPER, DIS-SOLVED (µG/L AS CU) (01040)	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, DIS-SOLVED (µG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (µG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	PROP-CHLOR, WATER, DISS, REC (µG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (µG/L) (04028)	SI-MAZINE, WATER, DISS, REC (µG/L) (04035)
NOV											
29...	3	37	10	<1	22	1.2	50	<4	<0.02	<0.008	<0.008
MAR											
07...	--	--	--	--	--	--	--	--	<0.02	<0.008	<0.008
APR											
25...	--	--	--	--	--	--	--	--	E0.006	<0.008	0.05
MAY											
16...	--	--	--	--	--	--	--	--	<0.02	<0.008	0.03
JUN											
27...	3	200	4	1	7	0.10	20	4	0.47	<0.002	0.02
AUG											
22...	2	12	6	<1	83	<0.10	10	<4	<0.007	<0.002	0.02

DATE	PRO-METON, WATER, DISS, REC (µG/L) (04037)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (µG/L) (04041)	FONOFOS WATER DISS REC (µG/L) (04095)	ALPHA BHC DIS-SOLVED (µG/L) (34253)	P,P' DDE DISSOLV (µG/L) (34653)	METO-LACHLOR WATER DISSOLV (µG/L) (39415)	LINDANE DIS-SOLVED (µG/L) (39341)	DI-ELDRIN DIS-SOLVED (µG/L) (39381)	ATRA-ZINE, WATER, DISS, REC (µG/L) (39632)	METRI-BUZIN SENCOR WATER DISSOLV (µG/L) (82630)
NOV											
29...	0.03	E0.005	<0.01	<0.008	<0.007	<0.01	<0.009	E0.008	<0.008	E0.005	<0.01
MAR											
07...	E0.007	E0.02	<0.01	<0.008	<0.007	<0.01	0.02	<0.01	<0.008	0.13	<0.01
APR											
25...	0.02	E0.06	0.02	<0.008	<0.007	<0.01	0.46	<0.01	<0.008	2.00	<0.01
MAY											
16...	0.01	E0.10	0.02	<0.008	<0.007	<0.01	0.53	<0.01	<0.008	1.60	<0.01
JUN											
27...	0.02	E0.13	0.02	<0.003	<0.002	<0.006	1.40	<0.004	<0.001	3.10	0.14
AUG											
22...	0.06	E0.08	<0.004	<0.003	<0.002	<0.006	0.08	<0.004	<0.001	1.10	0.004

E--Laboratory estimated value.

06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--Continued

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

DATE	FONOFOS WATER DISS REC (µG/L) (04095)	CHLOR-PYRIFOS DIS-SOLVED (µG/L) (38933)	MALA-THION, DIS-SOLVED (µG/L) (39532)	PARA-THION, DIS-SOLVED (µG/L) (39542)	DI-AZINON, DIS-SOLVED (µG/L) (39572)	ALA-CHLOR, WATER, DISS, REC, (µG/L) (46342)	ACETO-CHLOR, WATER FLTRD REC (µG/L) (49260)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (µG/L) (82660)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (µG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (µG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (µG/L) (82665)
NOV											
29...	<0.008	<0.005	<0.01	<0.02	E0.004	<0.009	<0.00	<0.006	<0.01	<0.01	<0.03
MAR											
07...	<0.008	<0.005	<0.01	<0.02	<0.008	<0.009	<0.009	<0.006	<0.01	<0.01	<0.03
APR											
25...	<0.008	<0.09	<0.01	<0.02	<0.008	0.17	0.12	<0.006	<0.01	<0.01	<0.03
MAY											
16...	<0.008	<0.005	<0.01	<0.02	<0.008	0.04	0.03	<0.006	<0.01	<0.01	<0.03
JUN											
27...	<0.003	<0.004	<0.005	<0.004	<0.002	0.65	0.02	<0.003	<0.004	<0.002	<0.007
AUG											
22...	<0.003	<0.004	<0.005	<0.004	E0.002	0.02	<0.002	<0.003	<0.004	<0.002	E0.007

DATE	LIN-URON WATER FLTRD 0.7 U GF, REC (µG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (µG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (µG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (µG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (µG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (µG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (µG/L) (82672)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (µG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (µG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (µG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (µG/L) (82676)
NOV											
29...	<0.04	<0.03	<0.005	<0.009	0.03	<0.007	<0.01	<0.01	<0.01	<0.01	<0.009
MAR											
07...	<0.04	<0.03	<0.005	<0.009	E0.02	<0.007	<0.01	<0.01	<0.01	<0.01	<0.009
APR											
25...	<0.04	<0.03	<0.005	<0.009	0.02	<0.007	<0.01	<0.01	E0.04	<0.01	<0.009
MAY											
16...	<0.04	<0.03	<0.005	<0.009	E0.006	<0.007	<0.01	<0.01	E0.04	<0.01	<0.009
JUN											
27...	<0.002	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	E0.008	<0.01	<0.003
AUG											
22...	<0.002	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.01	<0.003

DATE	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (µG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (µG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (µG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (µG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (µG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (µG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (µG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (µG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (µG/L) (82685)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (µG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (µG/L) (82687)
NOV											
29...	<0.06	<0.008	<0.02	<0.05	<0.008	<0.004	<0.02	<0.01	<0.006	<0.04	<0.02
MAR											
07...	<0.06	<0.008	<0.02	<0.05	<0.008	<0.004	<0.02	<0.01	<0.006	<0.04	<0.02
APR											
25...	<0.06	<0.008	<0.02	<0.05	<0.008	E0.001	0.01	<0.01	<0.006	<0.04	<0.02
MAY											
16...	<0.06	<0.008	<0.02	<0.05	<0.008	<0.004	<0.02	<0.01	<0.006	<0.04	<0.02
JUN											
27...	<0.02	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.01	<0.001	<0.005
AUG											
22...	<0.02	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.01	<0.001	<0.005

E--Laboratory estimated value.

06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--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	220	133	79	550	206	344	5320	145	2080
2	210	107	61	2260	289	1790	4080	148	1630
3	205	119	66	1760	346	1600	3150	186	1570
4	205	127	70	1150	527	1620	2350	171	1080
5	200	111	60	3060	614	5420	1850	198	975
6	200	102	55	7270	649	12800	1540	255	1060
7	200	106	57	8420	494	11200	2290	308	2000
8	232	119	74	6980	296	5640	5400	408	5980
9	243	108	71	4110	210	2330	5080	298	4090
10	300	119	96	2760	209	1570	3940	212	2260
11	335	119	108	3200	269	2330	3010	153	1240
12	311	115	97	2050	201	1110	2400	150	968
13	251	112	76	1240	168	563	2010	135	730
14	227	114	70	939	132	333	1850	119	596
15	230	101	62	846	123	279	1830	103	511
16	250	98	66	946	127	325	1830	95	472
17	270	95	69	1120	129	391	2130	98	563
18	260	96	67	1060	125	357	2430	81	530
19	250	108	73	853	156	371	2340	85	534
20	230	101	63	9780	1470	38800	2030	79	432
21	215	115	67	21300	969	55700	1810	72	351
22	205	128	71	24800	649	43500	1690	66	303
23	195	122	64	28900	439	34300	1590	59	256
24	185	113	57	27900	217	16400	1530	60	248
25	175	98	47	24400	123	8080	1460	53	210
26	170	94	43	20200	120	6520	1400	49	183
27	164	100	44	17100	138	6370	1340	51	183
28	162	98	43	15200	195	7990	1290	40	138
29	141	99	38	11600	204	6400	1250	20	66
30	183	102	50	7530	196	3990	1200	21	68
31	222	113	68	---	---	---	1160	16	50
	JANUARY			FEBRUARY			MARCH		
1	1110	16	48	5520	132	1960	1800	301	1480
2	962	17	45	3700	132	1300	1270	181	621
3	859	19	44	2920	107	846	1060	108	308
4	773	19	41	2540	86	586	910	93	229
5	757	14	29	2330	79	495	880	76	180
6	827	10	23	2020	74	404	920	65	161
7	811	9	19	1790	73	351	1180	80	258
8	798	9	18	1610	72	311	1300	79	276
9	778	10	21	1440	70	272	1460	74	293
10	732	8	16	1300	65	228	1470	79	315
11	716	8	15	1210	53	172	1360	77	284
12	726	8	16	1120	36	108	1310	90	316
13	744	11	22	1010	24	65	1190	103	328
14	1290	108	406	924	18	44	1040	118	332
15	1940	168	897	866	19	44	951	125	321
16	2130	210	1210	861	19	45	897	124	303
17	1520	102	421	878	21	49	1310	183	646
18	1180	71	228	865	22	51	1390	177	663
19	1090	51	150	833	23	52	1530	157	650
20	1040	47	130	809	25	55	1510	157	639
21	1010	50	137	775	30	62	1450	158	617
22	1170	57	181	732	36	71	1390	182	683
23	1210	66	213	691	41	76	1330	168	604
24	1100	66	195	652	49	86	1310	137	485
25	969	64	166	611	49	80	1270	131	448
26	999	64	173	627	51	87	1260	129	442
27	2060	231	1470	1570	350	2010	1140	119	363
28	6970	579	11700	2860	487	3780	944	125	317
29	10800	499	14600	---	---	---	844	105	239
30	10400	324	9100	---	---	---	801	98	212
31	8340	180	4070	---	---	---	784	95	201

06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--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	729	98	193	8540	517	11600	28000	85	6390
2	635	104	178	10900	380	11300	22600	115	7030
3	590	105	167	11900	399	12800	21000	129	7340
4	506	90	123	11400	308	9510	19000	118	6040
5	411	80	83	10800	296	8600	18200	109	5420
6	344	81	75	10100	311	8470	20800	134	7540
7	340	93	83	8260	387	8690	20600	140	7750
8	360	106	97	17700	1510	76500	21100	140	7850
9	352	100	94	23900	1390	88600	27500	149	11200
10	364	108	94	28900	709	55000	32600	169	14800
11	437	132	141	31800	376	32200	35800	161	15600
12	923	147	374	29500	195	15700	49700	128	17000
13	1640	193	867	23200	150	9380	57200	102	15800
14	1490	174	696	18700	137	6890	55500	96	14400
15	1100	159	470	14600	119	4650	47300	118	15000
16	894	181	434	10200	141	3840	39900	119	12900
17	1160	315	986	17700	983	61200	27500	135	10000
18	8000	1350	29800	37500	617	61800	20800	150	8430
19	10100	1340	36500	41000	341	37800	20000	162	8740
20	9650	723	19000	48000	256	33000	19600	166	8810
21	7900	440	9350	54800	258	38000	18400	164	8140
22	5730	348	5380	56100	237	36000	17100	188	8650
23	3500	312	2930	53900	175	25500	16400	195	8570
24	3200	281	2470	49200	129	17200	16300	215	9510
25	3880	330	3450	37900	107	10900	19100	264	13900
26	3100	205	1710	32100	125	10800	21900	338	20000
27	2320	179	1120	32700	150	13300	21800	272	16000
28	1960	149	788	34600	167	15600	20900	242	13600
29	2590	423	3120	35700	161	15400	19900	228	12200
30	4380	484	5860	38200	135	13800	19400	159	8330
31	---	---	---	36300	102	9990	---	---	---
		JULY			AUGUST			SEPTEMBER	
1	18900	175	8990	1200	120	390	142	90	36
2	18500	174	8690	1580	218	930	151	107	44
3	17800	187	8980	3170	559	4790	156	129	55
4	16800	189	8590	6310	1700	28900	173	140	65
5	16500	186	8290	9330	863	21700	187	117	59
6	16100	223	9620	8720	573	13500	170	105	48
7	14400	268	10500	8420	414	9420	155	117	49
8	13600	229	8400	7920	316	6750	146	127	50
9	12700	212	7280	5060	195	2670	140	125	47
10	12000	217	7040	2190	151	891	164	118	52
11	11400	210	6470	1120	119	361	170	97	45
12	10600	202	5770	684	113	209	168	89	40
13	8550	180	4150	496	105	140	164	109	48
14	7180	177	3420	476	93	119	160	132	57
15	6350	189	3230	349	91	86	156	135	57
16	4680	150	1900	319	108	93	152	138	57
17	3860	113	1180	296	91	72	150	141	57
18	3450	117	1090	288	85	67	150	143	58
19	3340	119	1080	323	82	72	148	144	58
20	3240	124	1080	385	86	89	148	141	56
21	3230	123	1080	413	92	102	146	123	49
22	3380	150	1370	341	103	94	200	136	73
23	3470	160	1490	284	109	84	190	168	86
24	3070	146	1210	253	99	68	175	150	71
25	2410	127	824	224	93	58	165	131	58
26	2060	106	595	231	99	60	160	106	46
27	1930	92	479	232	106	66	156	90	38
28	1710	94	435	208	110	64	154	85	35
29	1550	92	385	198	106	60	152	82	34
30	1330	93	334	190	100	51	150	82	33
31	1180	103	329	192	91	35	---	---	---