

Water-Data Report 2009

06934500 MISSOURI RIVER AT HERMANN, MO

Missouri River Main Stem

LOCATION.--Lat 38°42'35.3", long 91°26'18.6" referenced to North American Datum of 1983, in SW ¼ sec.25, T.46 N., R.5 W., Montgomery County, MO, Hydrologic Unit 10300200, on downstream side of third pier from right abutment of bridge on State Highway 19 at Hermann, 7 miles downstream from Gasconade River, and at mile 97.9.

DRAINAGE AREA.--522,500 mi², the 3,959 mi² in Great Divide basin are not included.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1897 to current year. Prior to August 1928 monthly discharge only published in WSP 1310. Gage-height records 1873-99 collected at site 480 ft downstream are contained in reports of Missouri River Commission; since 1900 in reports of the National Weather Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 481.56 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 26, 1930, nonrecording gage at site 480 ft downstream at datum 0.07 ft lower; Sept. 26, 1930, to Mar. 27, 1932, nonrecording gage; Mar. 28, 1932, to June 12, 1945, water-stage recorder; June 13, 1945, to Apr. 2, 1946, May 13 to Sept. 30, 1978, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Water-discharge records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1844 reached a stage of 35.5 ft, discharge, about 700,000 ft³/s, computed by the U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 287,000 ft³/s, June 18, gage height, 27.50 ft; minimum discharge, 38,500 ft³/s, Feb. 3, gage height, 3.73 ft.

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	83,100	96,500	47,900	123,000	47,700	50,600	147,000	281,000	126,000	114,000	67,000	96,400
2	78,900	87,100	49,400	109,000	40,500	51,700	136,000	272,000	117,000	111,000	66,100	83,400
3	75,600	77,400	51,900	92,100	40,900	57,300	128,000	252,000	110,000	108,000	63,700	74,500
4	75,200	73,000	50,400	80,700	47,400	62,500	120,000	229,000	106,000	132,000	61,200	69,100
5	74,300	69,000	48,200	70,400	47,300	54,800	112,000	207,000	115,000	145,000	59,600	65,400
6	73,300	66,200	48,400	69,100	48,000	48,400	108,000	181,000	121,000	124,000	58,800	64,100
7	73,100	66,400	46,000	72,500	44,000	44,600	105,000	161,000	117,000	116,000	59,400	64,600
8	68,900	90,600	43,800	70,200	40,100	41,900	102,000	159,000	108,000	111,000	59,600	62,700
9	61,700	101,000	42,800	66,500	39,700	40,400	101,000	192,000	104,000	109,000	59,800	63,400
10	55,400	87,000	42,200	62,400	41,000	69,900	101,000	180,000	116,000	97,800	59,600	64,900
11	55,600	78,900	43,400	56,700	49,300	143,000	109,000	170,000	163,000	92,800	60,900	63,100
12	56,800	77,300	45,900	51,900	77,600	165,000	135,000	161,000	191,000	97,700	64,100	67,200
13	56,900	75,700	45,900	50,400	77,500	155,000	145,000	147,000	193,000	99,000	65,800	66,600
14	55,200	72,500	44,500	52,400	83,100	140,000	133,000	142,000	175,000	103,000	63,700	61,300
15	55,000	69,500	43,700	53,700	97,000	126,000	123,000	139,000	160,000	107,000	64,400	59,800
16	58,400	64,000	43,300	56,500	92,100	106,000	118,000	162,000	203,000	106,000	63,300	61,500
17	65,500	60,100	44,200	57,800	81,400	85,500	114,000	228,000	261,000	102,000	62,100	61,900
18	68,200	60,100	45,100	49,400	77,100	71,600	110,000	252,000	282,000	94,700	70,200	66,400
19	67,000	64,300	43,400	41,900	79,000	65,400	106,000	240,000	257,000	87,200	125,000	64,300
20	65,000	67,200	43,300	40,000	76,100	60,500	115,000	230,000	210,000	82,500	157,000	59,900
21	66,200	65,500	45,400	40,100	74,400	59,900	126,000	215,000	182,000	79,200	159,000	57,000
22	70,700	63,800	45,700	43,300	65,400	61,600	128,000	201,000	170,000	77,200	143,000	55,100
23	76,200	59,200	43,600	45,900	57,300	61,500	120,000	185,000	160,000	76,500	120,000	55,500
24	84,900	54,300	43,100	45,600	65,900	65,400	109,000	163,000	156,000	77,200	100,000	64,000
25	121,000	52,100	42,200	45,500	69,800	85,400	104,000	144,000	158,000	76,400	87,200	81,600
26	137,000	53,400	40,500	46,700	63,600	117,000	102,000	139,000	152,000	73,700	79,200	78,600
27	130,000	54,000	44,800	51,700	56,000	131,000	99,200	143,000	141,000	72,200	78,200	67,700
28	120,000	51,100	93,400	56,000	53,000	140,000	140,000	151,000	136,000	70,900	76,100	60,300
29	111,000	48,600	132,000	54,700	---	165,000	223,000	153,000	129,000	70,200	79,000	61,600
30	105,000	47,900	137,000	53,200	---	174,000	261,000	154,000	120,000	70,900	97,900	65,600
31	101,000	---	131,000	53,000	---	160,000	---	139,000	---	68,100	104,000	---
Mean	78,910	68,460	55,240	60,070	61,860	92,290	126,000	186,200	158,000	95,230	81,770	66,250
Max	137,000	101,000	137,000	123,000	97,000	174,000	261,000	281,000	282,000	145,000	159,000	96,400
Min	55,000	47,900	40,500	40,000	39,700	40,400	99,200	139,000	104,000	68,100	58,800	55,100
In.	0.17	0.15	0.12	0.13	0.12	0.20	0.27	0.41	0.34	0.21	0.18	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2009^a, BY WATER YEAR (WY)

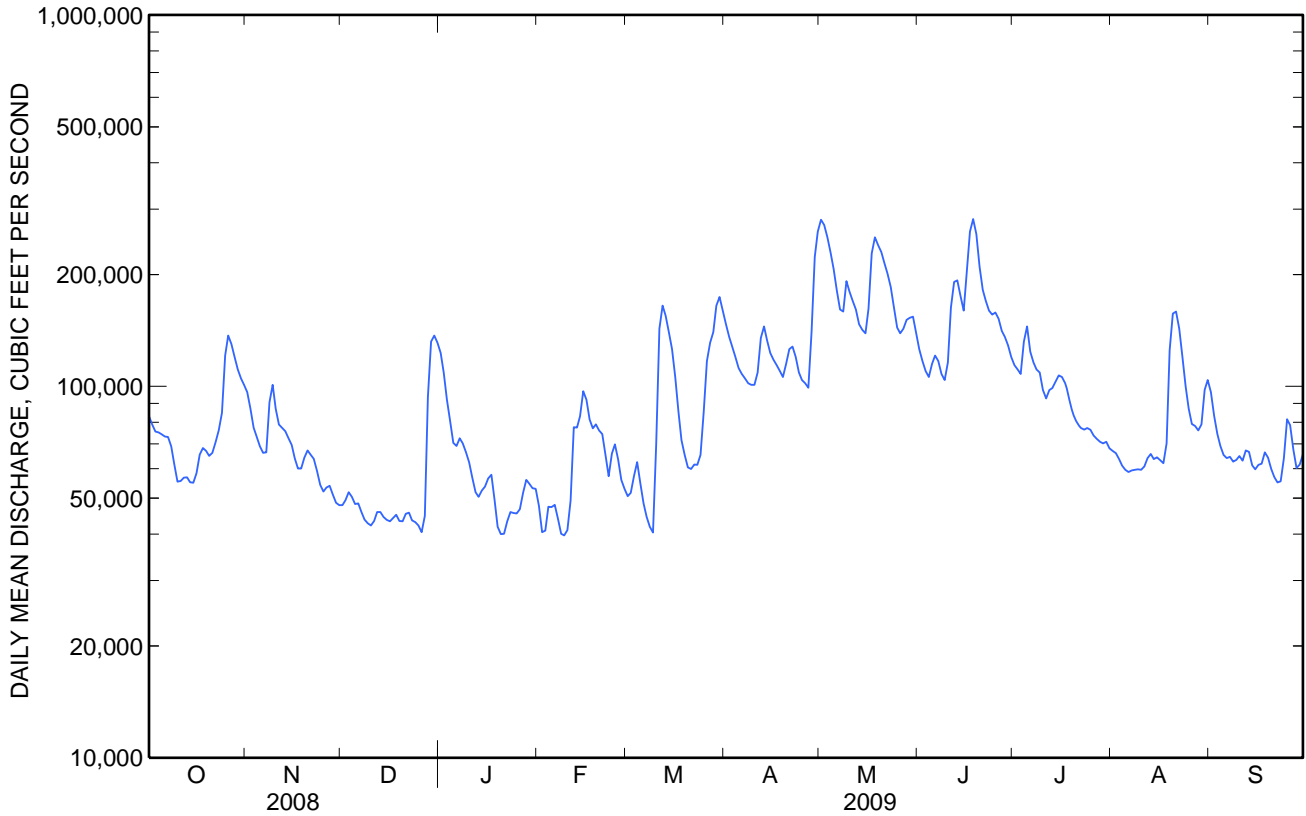
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	75,640	74,880	60,740	51,410	67,290	94,800	117,900	123,300	121,700	99,100	73,620	75,440
Max	286,700	174,800	178,900	129,000	136,800	267,500	333,400	313,000	282,300	376,300	306,600	243,500
(WY)	(1987)	(1999)	(1983)	(1973)	(1982)	(1973)	(1973)	(1995)	(1995)	(1993)	(1993)	(1993)
Min	35,230	24,820	17,060	17,350	19,250	22,810	45,800	47,710	46,150	40,970	37,920	37,800
(WY)	(2007)	(2007)	(1964)	(1963)	(1964)	(1964)	(1963)	(1989)	(1988)	(2006)	(2003)	(1963)

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1958 - 2009 ^a	
Annual mean	118,100		94,340		86,340	
Highest annual mean					181,800	1993
Lowest annual mean					41,690	2006
Highest daily mean	338,000	Sep 16	282,000	Jun 18	739,000	Jul 31, 1993
Lowest daily mean	38,500	Jan 7	39,700	Feb 9	6,210	Dec 23, 1963
Annual seven-day minimum	41,700	Jan 1	43,200	Jan 19	7,400	Dec 20, 1963
Maximum peak flow			287,000	Jun 18	750,000	Jul 31, 1993
Maximum peak stage			27.50	Jun 18	36.97	Jul 31, 1993
Instantaneous low flow			38,500	Feb 3	602	Dec 23, 1963
Annual runoff (inches)	3.08		2.45		2.25	
10 percent exceeds	233,000		160,000		162,000	
50 percent exceeds	99,000		76,100		66,800	
90 percent exceeds	47,300		46,000		36,000	

^a Period of Regulated Streamflow



06934500 MISSOURI RIVER AT HERMANN, MO—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--July 1969 to current year. National Stream-Quality Accounting Network station September 1989 to current year. Discrete suspended and bed material sediments October 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1996, February 2006 to current year (Seasonally).

pH: February 2006 to September 2007.

WATER TEMPERATURE: October 1974 to September 1996, February 2006 to current year (Seasonally).

DISSOLVED OXYGEN: June to September 1984, April to September 1985, April to September 1986, February 2006 to current year (Seasonally).

TURBIDITY: February 2006 to current year (Seasonally).

SUSPENDED-SEDIMENT CONCENTRATION: October 2008 to current year.

SUSPENDED-SEDIMENT LOAD: October 2008 to current year.

INSTRUMENTATION.--Water-quality monitor, February 2006 to current year.

REMARKS.--Interruptions in the record are generally due to malfunction or fouling of the sensors. Detailed records of the procedures employed for specific periods of record have been included with the station analysis and are kept on file. The magnitude of extreme turbidity values has been found to vary depending on the probe used. The manufacturer's specified range for turbidity sensors used is 0 to 1,000 FNU. Values >1,000 FNU have been maintained in some cases for continuity of the record and/or have been flagged as greater than (>). All values greater than the manufacturer's specified limit should be considered as >1,000 FNU.

Specific conductance record is rated excellent, except for the following periods: Oct. 17-23, rated good; Apr. 29, May 12, Jun. 13, 16, 20, 23, rated poor. Water temperature record is rated excellent, except for the following periods: Aug. 20 - Sept. 17, rated good; June 23, rated poor. Dissolved oxygen record is rated excellent, except for the following periods: Oct. 22-23, Apr. 24, May 12, 25-28, rated good; May 29 - June 1, Sept. 14, rated fair; Oct. 17-19, 21, Mar. 3, 5, June 2, 20, 23, July 23-24, Aug. 15-16, 26-29, Sept. 2, 17, 28-30, rated poor. Turbidity record is rated excellent, except for the following periods: Oct. 18-23, rated good; Oct. 27, Mar. 12, 29-30, Apr. 1, June 20, 23, Jul. 22-24, Aug. 19-20, 26-29, Sept. 2, 4, 14, 17, 28-30, rated poor.

Interruptions or periods of missing record may be due to instrument out of service, instrument failure, or data corrections exceeding allowable criteria, which were deleted.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,150 $\mu\text{S}/\text{cm}$ (once daily measurement), Dec. 9, 1978; minimum recorded 119 $\mu\text{S}/\text{cm}$, Mar. 22, 2008.

pH: Maximum recorded, 8.8 standard units, Sep. 14-16, 2006; minimum recorded 7.3 standard units, May 12-16, and 18, 2007.

WATER TEMPERATURE: Maximum recorded, 32.5 $^{\circ}\text{C}$ (once daily measurement), Jul. 31, 1987; minimum recorded, 0.0 $^{\circ}\text{C}$ (once daily measurement) on many days during winter period (1974-1996).

DISSOLVED OXYGEN: Maximum recorded 14.6 mg/L, Mar. 26, 2006; minimum recorded, 1.7 mg/L, May 9, 2007.

TURBIDITY: Maximum recorded, 1430 FNU, Jun. 10, 2008, but may have been higher during periods of missing record; minimum recorded, 14 FNU, Mar. 7, 2009.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 799 $\mu\text{S}/\text{cm}$, Mar. 3, 2006; minimum daily, 126 $\mu\text{S}/\text{cm}$, Mar. 22, 2008.

pH: Maximum daily 8.7 standard units, Sep. 15-16, 2006; minimum daily, 7.3 standard units May 15, 2007.

WATER TEMPERATURE: Maximum daily, 31.5 $^{\circ}\text{C}$, Jul. 20, 2006; minimum daily, 3.0 $^{\circ}\text{C}$, Mar. 4, 2007.

DISSOLVED OXYGEN: Maximum daily, 14.1 mg/L, Mar. 26, 2006; minimum daily, 2.4 mg/L, May 10, 2007.

TURBIDITY: Maximum daily, 1240 FNU, Jun. 10, 2008, but may have been higher during periods of missing record; minimum daily, 17 FNU, Feb. 24, Mar. 2, 2006.

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean 2,760 mg/L, May 18; minimum daily mean 86 mg/L, Sep 24 and 27, but may have been lower during period of missing record.

SUSPENDED-SEDIMENT LOAD: Maximum daily 1,840,000 tons/day, May 1; minimum daily 5,130 tons/day, Feb 3.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 735 $\mu\text{S}/\text{cm}$, Aug. 9, but may have been higher during periods of missing record; minimum recorded 303 $\mu\text{S}/\text{cm}$, May 21.

WATER TEMPERATURE: Maximum recorded, 28.8 $^{\circ}\text{C}$, Aug. 15, but may have been higher during periods of missing record; minimum recorded, 3.1 $^{\circ}\text{C}$, Mar. 4, but may have been lower during periods of missing record.

DISSOLVED OXYGEN: Maximum recorded 12.3 mg/L, Mar. 5, but may have been higher during periods of missing record; minimum recorded, 3.6 mg/L, Aug. 19, but may have been lower during periods of missing record.

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

TURBIDITY: Maximum recorded, 1230 FNU, May 19; minimum recorded, 14 FNU, Mar. 7.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Medium name	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Instantaneous discharge, ft ³ /s (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC μS/cm @ (00095)
Oct									
29...	1135	Surface water	.214	.168	111,000	10.2	94	7.6	447
Dec									
09...	0950	Surface water	.091	.066	43,100	12.9	101	8.1	719
Feb									
23...	1130	Surface water	.152	.116	56,900	12.2	91	8.0	533
Mar									
18...	1215	Surface water	.164	.124	70,900	11.0	95	7.6	441
Apr									
08...	1010	Surface water	.123	.093	102,000	10.6	89	8.3	540
21...	1115	Surface water	.146	.111	126,000	9.2	89	7.6	508
May									
06...	1025	Surface water	.181	.135	181,000	6.4	67	7.8	393
26...	1140	Surface water	.159	.117	138,000	6.8	81	7.7	449
Jun									
10...	0950	Surface water	.141	.103	112,000	6.8	82	8.0	508
23...	1045	Surface water	.155	.115	161,000	6.2	80	7.8	431
Jul									
21...	1005	Surface water	.134	.101	79,400	6.7	83	7.8	605
Aug									
26...	1020	Surface water	.121	.089	78,400	6.5	80	7.5	555
26...	1021	<i>QC sample - Surface water</i>	.124	.091	--	6.5	79	7.6	554
Sep									
10...	0850	Surface water	.244	.215	65,500	7.9	94	8.1	655

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Temperature, water, deg C (00010)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltred, mg/L (00915)	Magnes- ium, water, fltred, mg/L (00925)	Potas- sium, water, fltred, mg/L (00935)	Sodium, water, fltred, mg/L (00930)	Alka- linity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt infl pt titr., field, mg/L (00453)	Total carbon, suspnd sedimnt total, mg/L (00694)	Carbon- ate, wat flt infl pt titr., field, mg/L (00452)	Chlor- ide, water, fltred, mg/L (00940)
Oct													
29...	11.2	370	272	160	45.0	11.8	5.95	27.5	127	154	13.7	.3	17.0
Dec													
09...	3.9	27	481	290	77.5	22.5	6.60	46.3	223	269	1.8	1.3	33.4
Feb													
23...	3.0	120	343	200	55.9	14.9	8.08	28.9	171	207	5.8	.9	23.0
Mar													
18...	8.1	440	265	180	51.0	11.8	5.64	20.7	161	196	12.6	.3	18.8
Apr													
08...	8.9	110	343	220	61.1	16.6	5.28	27.7	159	192	4.8	.9	19.6
21...	13.1	120	338	210	57.8	16.2	5.24	26.3	133	161	8.1	.2	17.8
May													
06...	16.6	340	246	160	46.3	11.6	4.82	14.7	126	153	6.3	<.1	12.3
26...	21.6	170	262	170	47.5	12.6	4.58	18.1	133	161	5.6	<.1	12.9
Jun													
10...	23.0	140	288	180	48.2	14.1	5.18	24.6	133	161	5.7	.7	15.7
23...	27.0	340	256	160	44.3	11.9	4.91	20.7	121	147	7.2	.5	11.7
Jul													
21...	25.5	340	377	220	57.1	18.9	5.96	33.2	148	179	21.6	.6	17.7
Aug													
26...	24.9	100	335	190	51.7	15.7	5.93	34.9	138	167	4.0	.4	15.8
26...	24.8	110	336	200	52.2	15.7	5.85	35.3	--	--	3.9	--	15.9
Sep													
10...	23.0	45	417	230	58.8	19.0	6.26	47.0	160	194	3.0	.6	19.5

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Fluor- ide, water, fltrd, mg/L (00950)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia		Nitrate + nitrite water, fltrd, mg/L (00631)	Ortho- phos- phate, water, fltrd, mg/L (00671)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)		
					+ org-N, water, fltrd, mg/L as N (00623)	+ org-N, water, unfltrd mg/L as N (00625)							
Oct													
29...	.31	.2	10.7	62.0	.42	1.9	E.015	1.17	.012	.115	1.46	.115	.63
Dec													
09...	.37	M	16.3	113	.34	.55	.034	2.23	.007	.129	.21	.137	.231
Feb													
23...	.35	.1	13.1	73.7	.86	1.5	.158	2.16	.027	.147	.65	.174	.40
Mar													
18...	.28	.3	10.9	51.2	.56	1.7	.048	2.03	.021	.090	1.30	.097	.782
Apr													
08...	.28	.4	10.2	75.5	.58	.80	E.019	1.49	.010	.077	.58	.091	.360
21...	.28	<.04	10.6	75.8	.41	1.0	E.018	1.46	.011	.092	.99	.101	.387
May													
06...	.23	<.04	9.56	46.0	.54	1.3	E.011	1.52	.045	.072	.63	.079	.53
26...	.28	M	8.66	53.6	.69	1.1	<.020	1.19	.060	.015	.96	.078	.406
Jun													
10...	.27	<.04	9.39	68.8	.65	.96	<.020	1.70	.017	.087	.61	.107	.336
23...	.26	E.1	10.7	55.2	.49	1.8	<.020	1.47	.008	.106	1.00	.112	.833
Jul													
21...	.37	E.1	12.5	108	.54	1.7	<.020	2.07	E.002	.140	2.21	.160	.867
Aug													
26...	.34	<.04	10.3	103	.38	.86	<.020	.87	.011	.126	.53	.136	.371
26...	.33	<.04	10.3	103	.40	.83	<.020	.87	.011	.122	.46	.136	.382
Sep													
10...	.42	<.04	9.99	138	.33	.67	<.020	.74	.004	.117	.39	.132	.271

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified. Microbiology results with a remark code of E are based on non-ideal colony counts.]

Date	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Iron, water, fltrd, µg/L (01046)	Lithium water, fltrd, µg/L (01130)	Stront- ium, water, fltrd, µg/L (01080)	Vana- dium, water, fltrd, µg/L (01085)	Arsenic water, fltrd, µg/L (01000)	Boron, water, fltrd, µg/L (01020)	Selen- ium, water, fltrd, µg/L (01145)	1-Naph- thol, water, fltrd 0.7µ GF µg/L (49295)	2,6-Di- ethyl- aniline water, fltrd 0.7µ GF µg/L (82660)	2Chloro -2',6'- diethyl acet- anilide wat flt µg/L (61618)	CIAT, water, fltrd, µg/L (04040)
Oct													
29...	1,200	2,300	18	15.6	269	3.4	2.5	53	1.3	<.04	<.006	<.010	E.058
Dec													
09...	33	150	7	26.0	495	2.3	2.9	80	2.4	<.04	<.006	<.010	E.050
Feb													
23...	E63	180	12	15.8	312	2.0	2.5	50	2.1	<.04	<.006	<.010	E.048
Mar													
18...	450	350	8	9.1	232	1.6	1.5	31	1.5	<.04	<.006	<.010	E.031
Apr													
08...	90	90	E2	14.3	327	1.8	2.0	47	1.6	<.04	<.006	<.010	E.064
21...	710	E660	7	16.9	330	2.3	2.2	48	1.7	<.04	<.006	<.010	E.068
May													
06...	600	580	11	8.4	240	2.4	1.7	37	1.1	<.04	<.006	<.010	E.129
26...	E160	E100	5	10.1	226	2.0	1.7	41	1.1	<.04	<.006	<.010	E.163
Jun													
10...	170	200	6	15.8	276	2.8	2.3	54	1.3	<.04	<.006	<.010	E.243
23...	510	430	6	12.3	233	3.2	2.5	46	1.5	<.04	<.006	<.010	E.236
Jul													
21...	E500	E730	<4	22.3	362	3.7	3.6	68	2.4	<.04	<.006	<.010	E.149
Aug													
26...	84	170	6	24.9	310	3.9	3.1	76	1.6	<.04	<.006	<.010	E.103
26...	E77	190	4	24.4	299	3.8	3.1	76	1.6	<.04	<.006	<.010	E.096
Sep													
10...	E58	E67	5	33.1	400	3.6	3.6	95	1.9	<.04	<.006	<.010	E.082

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	2-Ethyl-6-methyl-aniline wat flt µg/L (61620)	3,4-Di-chloro-aniline water, fltrd, µg/L (61625)	3,5-Di-chloro-aniline water, fltrd, µg/L (61627)	4-Chloro-2-methyl-phenol, wat flt µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-Endo-sulfan, water, fltrd, µg/L (34362)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl oxon, water, fltrd, µg/L (61635)	Azin-phos-methyl, water, fltrd 0.7µ GF µg/L (82686)	Ben-flur-alin, water, fltrd 0.7µ GF µg/L (82673)	Car-baryl, water, fltrd 0.7µ GF µg/L (82680)	Carbo-furan, water, fltrd 0.7µ GF µg/L (82674)
Oct													
29...	<.010	<.004	<.004	<.005	.025	E.007	<.006	.204	<.04	<.120	<.014	<.200	<.060
Dec													
09...	<.010	<.004	<.004	<.005	.019	<.008	<.006	.220	<.04	<.120	<.014	<.200	<.060
Feb													
23...	<.010	<.004	<.004	<.005	.133	<.008	<.006	.146	<.04	<.120	<.014	<.200	<.060
Mar													
18...	<.010	<.004	<.004	<.005	.022	E.006	<.006	.126	<.04	<.120	<.014	<.200	<.060
Apr													
08...	<.010	<.004	<.004	<.005	.027	E.007	<.006	.238	<.04	<.120	<.014	<.200	<.060
21...	<.010	E.004	<.004	<.005	.207	.008	<.006	.596	<.04	<.120	<.014	<.200	<.060
May													
06...	<.010	<.004	<.004	<.005	.327	.019	<.006	2.18	<.04	<.120	<.014	<.200	<.060
26...	<.010	<.004	<.004	<.005	.240	.023	<.006	E2.50	<.04	<.120	<.014	<.200	<.060
Jun													
10...	E.003	E.004	<.004	<.005	.361	.072	<.006	1.08	<.04	<.120	<.014	<.200	<.060
23...	<.010	E.005	<.004	<.005	.197	.020	<.006	1.46	<.04	<.120	<.014	<.200	<.060
Jul													
21...	<.010	<.004	<.004	<.005	.036	.009	<.006	.462	<.04	<.120	<.014	<.200	<.060
Aug													
26...	<.010	<.004	<.004	<.005	.023	.011	<.006	.232	<.04	<.120	<.014	<.200	<.060
26...	<.010	<.004	<.004	<.005	.023	.011	<.006	.221	<.04	<.120	<.014	<.200	<.060
Sep													
10...	<.010	<.004	<.004	<.005	.019	<.009	<.006	.196	<.04	<.120	<.014	<.200	<.060

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Chlor-pyrifos oxon, water, fltrd, µg/L (61636)	Chlor-pyrifos water, fltrd, µg/L (38933)	cis-Per-methrin water fltrd 0.7µ GF µg/L (82687)	cis-Propi-conazole, water, fltrd, µg/L (79846)	Cyana-zine, water, fltrd, µg/L (04041)	Cyflu-thrin, water, fltrd, µg/L (61585)	Cyper-methrin water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7µ GF µg/L (82682)	Desulf-inyl-fipro-nil amide, wat flt µg/L (62169)	Desulf-inyl-fipro-nil, water, fltrd, µg/L (62170)	Diazi-non, water, fltrd, µg/L (39572)	Diaz-oxon, water, fltrd, µg/L (61638)	Di-chlor-vo-s, water, fltrd, µg/L (38775)
Oct 29...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	E.005	<.005	--	<.02
Dec 09...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	E.005	<.005	--	<.02
Feb 23...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	<.012	<.005	--	<.02
Mar 18...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	<.012	<.005	--	<.02
Apr 08...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	E.004	<.005	--	<.02
Apr 21...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	<.012	<.005	--	<.02
May 06...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	<.012	<.005	--	<.02
May 26...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	<.012	<.005	--	<.02
Jun 10...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	E.004	<.005	--	<.02
Jun 23...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	E.003	<.005	<.01	<.02
Jul 21...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	<.012	<.005	<.01	<.02
Aug 26...	<.05	<.010	<.014	E.008	<.040	<.016	<.020	<.006	<.029	<.012	<.005	<.01	<.02
Aug 26...	<.05	<.010	<.014	E.007	<.040	<.016	<.020	<.006	<.029	<.012	<.005	<.01	<.02
Sep 10...	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	<.012	<.005	<.01	<.02

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 7 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Dicrotophos, water, fltrd, µg/L (38454)	Dieldrin, water, fltrd, µg/L (39381)	Dimethoate, water, fltrd, 0.7µ GF µg/L (82662)	Disulfoton sulfone water, fltrd, µg/L (61640)	Disulfoton water, fltrd, 0.7µ GF µg/L (82677)	Endosulfan sulfate water, fltrd, µg/L (61590)	EPTC, water, fltrd, 0.7µ GF µg/L (82668)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Ethion, water, fltrd, 0.7µ GF µg/L (82672)	Fenamiphos sulfone water, fltrd, µg/L (61645)	Fenamiphos sulf-oxide, water, fltrd, µg/L (61646)	Fenamiphos, water, fltrd, µg/L (61591)
Oct													
29...	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
Dec													
09...	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
Feb													
23...	<.08	<.009	E.005	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
Mar													
18...	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
Apr													
08...	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
21...	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
May													
06...	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
26...	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
Jun													
10...	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
23...	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
Jul													
21...	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
Aug													
26...	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
26...	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03
Sep													
10...	<.08	<.009	<.006	<.01	<.04	<.022	<.007	<.02	<.012	<.016	<.053	<.08	<.03

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 8 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Fipro- nil sulfide water, fltrd, µg/L (62167)	Fipro- nil sulfone water, fltrd, µg/L (62168)	Fipro- nil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexa- zinone, water, fltrd, µg/L (04025)	Ipro- dione, water, fltrd, µg/L (61593)	Isofen- phos, water, fltrd, µg/L (61594)	lambda- Cyhalo- thrin, water, fltrd, µg/L (61595)	Mala- oxon, water, fltrd, µg/L (61652)	Mala- thion, water, fltrd, µg/L (39532)	Meta- laxyl, water, fltrd, µg/L (61596)	Methid- athion, water, fltrd, µg/L (61598)	Methyl para- oxon, water, fltrd, µg/L (61664)
Oct 29...	E.006	<.024	E.006	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01
Dec 09...	<.013	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01
Feb 23...	<.013	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01
Mar 18...	<.013	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01
Apr 08...	<.013	<.024	E.006	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01
Apr 21...	<.013	<.024	E.003	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01
May 06...	<.013	<.024	E.008	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01
May 26...	<.013	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01
Jun 10...	E.003	E.005	E.004	<.010	<.008	<.014	<.006	<.010	<.080	<.020	E.012	<.006	<.01
Jun 23...	E.003	E.004	E.004	<.010	<.008	<.014	<.006	<.010	<.080	<.020	E.009	<.006	<.01
Jul 21...	<.013	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01
Aug 26...	<.013	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01
Aug 26...	<.013	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01
Sep 10...	<.013	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 9 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Methyl para- thion, water, fltrd 0.7µ GF µg/L (82667)	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd 0.7µ GF µg/L (82671)	Myclo- butanil water, fltrd, µg/L (61599)	Oxy- fluor- fen, water, fltrd, µg/L (61600)	Pendi- meth- alin, water, fltrd 0.7µ GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd 0.7µ GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)	Prome- ton, water, fltrd, µg/L (04037)	Prome- tryn, water, fltrd, µg/L (04036)
Oct 29...	<.008	.081	E.009	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	<.006
Dec 09...	<.008	.070	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	.008
Feb 23...	<.008	.092	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	.017
Mar 18...	<.008	.035	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	E.01	.020
Apr 08...	<.008	.043	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	E.01	.014
Apr 21...	<.008	.068	E.009	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	.009
May 06...	<.008	.373	.018	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	.008
May 26...	<.008	.391	E.015	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	E.01	<.006
Jun 10...	<.008	.716	.027	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	E.01	<.006
Jun 23...	<.008	.535	E.013	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	<.006
Jul 21...	<.008	.210	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	E.01	<.006
Aug 26...	.016	.080	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	.010
Aug 26...	<.015	.075	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	.009
Sep 10...	<.017	.061	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	.01	.009

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 10 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Pro-panil, water, fltrd 0.7µ GF µg/L (82679)	Propar-gite, water, fltrd 0.7µ GF µg/L (82685)	Propy-zamide, water, fltrd 0.7µ GF µg/L (82676)	Sima-zine, water, fltrd, µg/L (04035)	Tebu-con-azole, water, fltrd, µg/L (62852)	Tebu-thiuron water, fltrd 0.7µ GF µg/L (82670)	Teflu-thrin, water, fltrd, µg/L (61606)	Ter-bufos-oxon sulfone water, fltrd, µg/L (61674)	Terbu-fos, water, fltrd 0.7µ GF µg/L (82675)	Ter-buthyl-azine, water, fltrd, µg/L (04022)	Thio-bencarb water, fltrd 0.7µ GF µg/L (82681)	trans-Propi-cona-zole, water, fltrd, µg/L (79847)	Tribu-phos, water, fltrd, µg/L (61610)
Oct													
29...	<.014	<.02	<.004	E.008	--	<.02	<.010	<.04	<.02	<.01	<.016	E.01	<.035
Dec													
09...	<.014	<.02	<.004	E.009	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035
Feb													
23...	<.014	<.02	<.004	.026	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035
Mar													
18...	<.014	<.02	<.004	.078	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035
Apr													
08...	<.014	<.02	<.004	.021	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035
21...	<.014	<.02	<.004	.078	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035
May													
06...	<.014	<.02	<.004	.080	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035
26...	<.014	<.02	<.004	.040	--	<.02	<.010	<.04	<.02	M	<.016	<.02	<.035
Jun													
10...	<.014	<.02	<.004	.015	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035
23...	<.014	<.02	<.004	.019	<.02	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035
Jul													
21...	<.014	<.02	<.004	E.009	<.02	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035
Aug													
26...	<.014	<.02	<.004	.011	<.02	<.02	<.010	<.04	<.02	<.01	<.016	E.02	<.035
26...	<.014	<.02	<.004	.010	<.02	<.02	<.010	<.04	<.02	<.01	<.016	E.01	<.035
Sep													
10...	<.014	<.02	<.004	E.010	<.02	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 11 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Tri-fluor-alin, water, fltrd 0.7 μ GF μ g/L (82661)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Suspnd. sieve diametr percent <0.0625 mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
Oct					
29...	<.012	13.5	6.3	88	885
Dec					
09...	<.012	1.80	3.5	57	88
Feb					
23...	<.012	5.62	6.1	72	306
Mar					
18...	<.012	12.3	8.7	88	789
Apr					
08...	<.012	4.41	8.7	67	306
21...	<.012	8.09	5.4	58	538
May					
06...	<.012	6.33	8.0	98	569
26...	<.012	5.53	15.6	85	262
Jun					
10...	<.012	5.75	5.4	96	244
23...	<.012	7.12	8.5	97	598
Jul					
21...	<.012	21.6	15.4	96	563
Aug					
26...	<.012	4.04	4.0	88	236
26...	<.012	3.89	4.3	--	--
Sep					
10...	<.012	2.97	3.6	86	102

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 1

Date	Time	Medium name	Instantaneous discharge, ft ³ /s (00061)	Temperature, water, deg C (00010)	Suspnd. sediment, falldia dst wat percent <62.5um (70342)	Suspnd. sediment, falldia dst wat percent <.125mm (70343)	Suspnd. sediment, falldia dst wat percent <.5 mm (70345)	Suspnd. sediment sieve diametr percent <0.0625 mm (70331)	Suspended sediment concentration mg/L (80154)
Feb									
20...	1205	Suspended sediment	76,100	10.5	--	--	--	89	383
Mar									
06...	1209	Suspended sediment	48,400	5.7	--	--	--	89	104
20...	1015	Suspended sediment	60,100	--	--	--	--	92	341
Apr									
10...	1219	Suspended sediment	101,000	--	60	67	100	--	258
24...	1100	Suspended sediment	109,000	16.8	--	--	--	90	185
May									
07...	1210	Suspended sediment	158,000	--	--	--	--	81	628
15...	1145	Suspended sediment	138,000	19.5	--	--	--	17	1,100
22...	1100	Suspended sediment	202,000	20.0	--	--	--	69	1,250
Jun									
05...	1000	Suspended sediment	114,000	23.0	--	--	--	93	817
11...	1145	Suspended sediment	163,000	23.0	--	--	--	89	1,440
19...	0950	Suspended sediment	262,000	22.8	--	--	--	97	1,370
Jul									
10...	1125	Suspended sediment	97,900	27.0	--	--	--	88	451
17...	1000	Suspended sediment	103,000	26.2	--	--	--	94	505
23...	1000	Suspended sediment	76,900	25.3	--	--	--	90	292
Aug									
07...	1038	Suspended sediment	59,400	27.0	--	--	--	82	100
14...	1120	Suspended sediment	63,600	28.0	--	--	--	82	137
21...	1015	Suspended sediment	161,000	24.0	--	--	--	90	1,790
Sep									
04...	1100	Suspended sediment	69,300	23.0	--	--	--	79	279
11...	1115	Suspended sediment	62,300	24.0	68	74	99	--	194
18...	1130	Suspended sediment	65,700	24.1	--	--	--	82	90

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 2

Date	Time	Medium name	Instan- taneous dis- charge, ft ³ /s (00061)	Bed	Bed	Bed	Bed	Bed	Bed
				sediment, dry svd sve dia percent <16 mm (80172)	sediment, dry svd sve dia percent <2 mm (80169)	sediment, dry svd sve dia percent <4 mm (80170)	sediment, dry svd sve dia percent <8 mm (80171)	sediment, fall dia dst wat percent <62.5um (80158)	sediment, fall dia dst wat percent <.125mm (80159)
Apr									
10...	1330	Bottom material	101,000	100	77	77	80	.0	.0
10...	1335	Bottom material	101,000	--	97	97	100	.0	.0
10...	1340	Bottom material	101,000	--	--	--	--	.0	.0
10...	1345	Bottom material	101,000	--	--	--	--	.0	.0
10...	1350	Bottom material	101,000	--	87	87	100	.0	.0
Sep									
11...	1132	Bottom material	62,300	--	94	100	--	.0	.0
11...	1137	Bottom material	62,300	--	93	97	100	.0	.0
11...	1143	Bottom material	62,300	--	--	--	--	.0	.0
11...	1150	Bottom material	62,300	--	99	100	--	.0	.0
11...	1156	Bottom material	62,300	100	81	87	89	.0	.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 2

Date	Bed	Bed	Bed	Bed
	sediment, fall dia dst wat percent <.25mm (80160)	sediment, fall dia dst wat percent <.5 mm (80161)	sediment, fall dia dst wat percent <1 mm (80162)	sediment, fall dia dst wat percent <2 mm (80163)
Apr				
10...	2	8	71	--
10...	13	35	83	--
10...	46	95	100	--
10...	30	91	100	--
10...	4	19	73	--
Sep				
11...	3	14	83	94
11...	25	61	91	93
11...	38	78	100	--
11...	13	54	99	--
11...	.0	22	80	81

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	523	504	513	468	443	458	---	---	---	---	---	---
2	528	509	517	530	468	499	---	---	---	---	---	---
3	554	523	536	559	530	547	---	---	---	---	---	---
4	569	543	556	565	556	560	---	---	---	---	---	---
5	578	560	567	---	---	---	---	---	---	---	---	---
6	594	570	581	---	---	---	---	---	---	---	---	---
7	594	573	583	---	---	---	---	---	---	---	---	---
8	597	570	586	---	---	---	---	---	---	---	---	---
9	654	586	616	---	---	---	---	---	---	---	---	---
10	691	651	675	---	---	---	---	---	---	---	---	---
11	702	690	698	---	---	---	---	---	---	---	---	---
12	714	701	706	---	---	---	---	---	---	---	---	---
13	721	708	715	---	---	---	---	---	---	---	---	---
14	709	671	687	---	---	---	---	---	---	---	---	---
15	672	655	664	---	---	---	---	---	---	---	---	---
16	673	644	653	---	---	---	---	---	---	---	---	---
17	682	622	666	---	---	---	---	---	---	---	---	---
18	623	576	590	---	---	---	---	---	---	---	---	---
19	581	571	575	---	---	---	---	---	---	---	---	---
20	630	581	602	---	---	---	---	---	---	---	---	---
21	650	628	641	---	---	---	---	---	---	---	---	---
22	628	586	609	---	---	---	---	---	---	---	---	---
23	596	582	589	---	---	---	---	---	---	---	---	---
24	589	545	569	---	---	---	---	---	---	---	---	---
25	552	474	520	---	---	---	---	---	---	---	---	---
26	474	419	439	---	---	---	---	---	---	---	---	---
27	433	419	426	---	---	---	---	---	---	---	---	---
28	435	427	432	---	---	---	---	---	---	---	---	---
29	446	432	440	---	---	---	---	---	---	---	---	---
30	438	418	428	---	---	---	---	---	---	---	---	---
31	443	422	432	---	---	---	---	---	---	---	---	---
Month	721	418	575	---	---	---	---	---	---	---	---	---

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

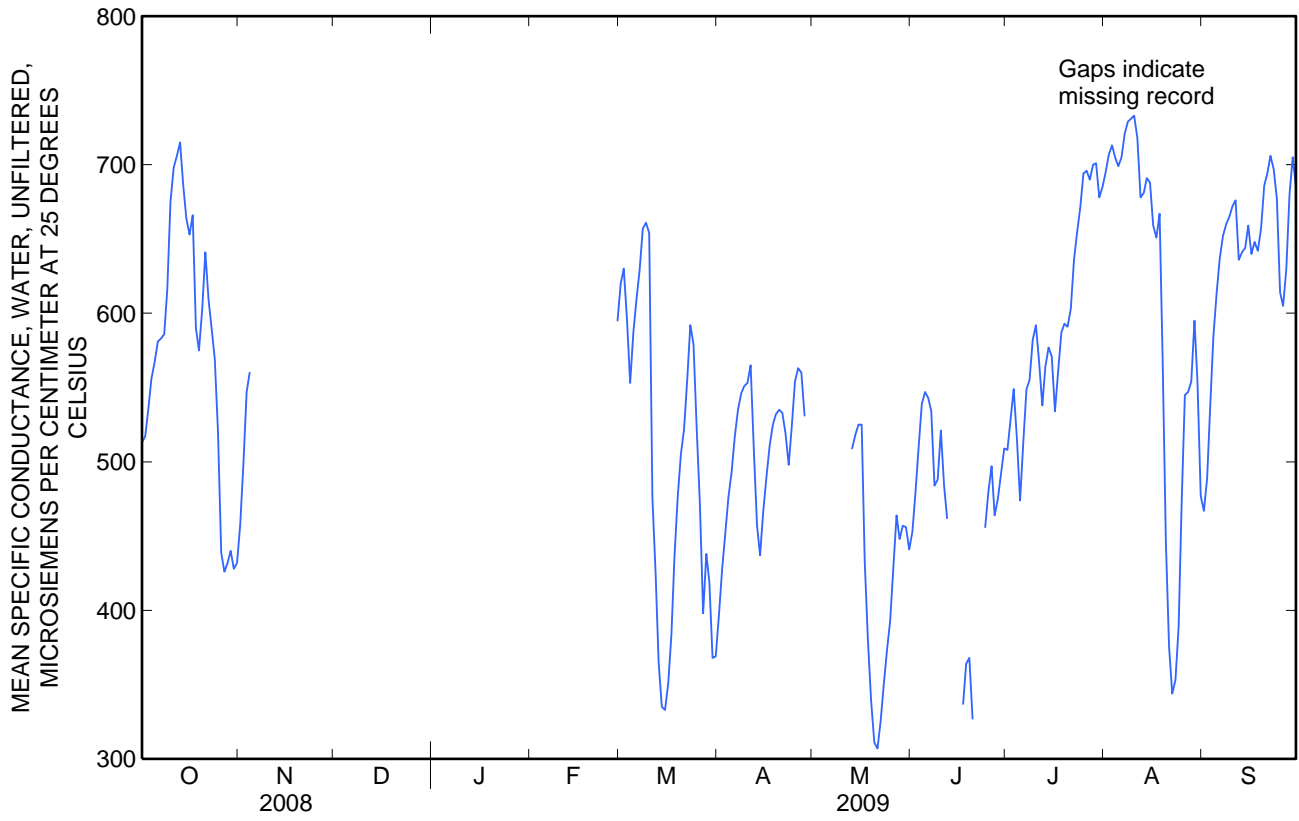
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	628	607	620	416	375	397	---	---	---
2	---	---	---	632	628	630	443	415	428	---	---	---
3	---	---	---	628	561	596	466	438	451	---	---	---
4	---	---	---	561	547	553	488	461	476	---	---	---
5	---	---	---	605	561	587	507	474	493	---	---	---
6	---	---	---	615	605	610	533	498	517	---	---	---
7	---	---	---	654	615	629	548	524	535	---	---	---
8	---	---	---	662	653	657	554	534	546	---	---	---
9	---	---	---	665	656	661	564	546	551	---	---	---
10	---	---	---	713	523	654	561	546	553	---	---	---
11	---	---	---	523	438	476	580	556	565	---	---	---
12	---	---	---	438	398	425	566	470	508	507	---	---
13	---	---	---	398	343	365	473	438	457	517	505	509
14	---	---	---	343	330	335	449	430	437	523	515	518
15	---	---	---	339	330	333	481	447	467	529	522	525
16	---	---	---	372	339	351	501	479	490	530	507	525
17	---	---	---	411	363	384	523	498	511	507	391	433
18	---	---	---	458	410	436	531	518	525	397	359	380
19	---	---	---	494	458	476	540	523	532	359	328	339
20	---	---	---	510	493	505	547	527	535	328	304	311
21	---	---	---	537	510	522	546	517	533	315	303	307
22	---	---	---	576	534	556	532	505	519	338	314	326
23	---	---	---	603	575	592	514	489	498	363	337	350
24	---	---	---	605	539	579	554	500	525	382	363	373
25	---	---	---	544	480	522	569	539	554	410	382	393
26	---	---	---	482	439	471	580	544	563	446	410	429
27	---	---	---	443	381	398	580	526	560	479	446	464
28	607	588	595	459	401	438	573	491	531	467	439	448
29	---	---	---	454	380	419	499	---	---	476	440	457
30	---	---	---	383	360	368	---	---	---	476	439	456
31	---	---	---	380	364	369	---	---	---	448	437	441
Month	---	---	---	713	330	501	---	---	---	---	---	---

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	463	447	453	514	500	508	699	692	695	470	466	467
2	498	462	479	538	513	528	715	697	707	512	470	489
3	535	492	510	555	538	549	715	710	713	561	511	539
4	562	512	539	563	466	516	710	700	705	605	561	584
5	565	523	547	484	465	474	701	697	699	624	603	613
6	556	527	543	543	484	513	715	698	705	646	624	637
7	565	493	534	555	542	549	727	713	721	659	646	652
8	511	469	484	579	539	555	731	726	729	662	658	660
9	511	471	488	590	576	582	735	728	731	671	660	665
10	555	486	521	594	590	592	734	730	733	680	668	672
11	543	460	484	590	534	567	731	699	718	682	653	676
12	489	407	462	549	532	538	699	670	678	653	628	636
13	410	---	---	569	549	564	687	676	681	653	627	641
14	---	---	---	584	569	577	699	686	691	649	640	644
15	---	---	---	584	546	571	699	669	688	668	646	659
16	337	---	---	546	530	534	670	650	659	647	634	640
17	349	326	337	573	541	561	658	646	651	662	632	648
18	395	335	364	595	573	587	711	652	667	653	632	642
19	394	339	368	595	590	593	716	457	569	683	636	657
20	344	319	327	593	588	591	463	406	447	694	676	686
21	---	---	---	620	593	603	406	351	376	708	677	694
22	---	---	---	648	620	636	351	340	344	710	697	706
23	450	---	---	657	648	655	366	341	353	700	694	697
24	469	449	456	686	657	671	424	366	389	698	653	677
25	498	469	480	700	686	694	522	424	473	653	582	614
26	511	475	497	701	687	696	555	522	545	617	583	605
27	475	457	464	696	686	690	550	544	547	660	612	630
28	483	464	475	704	696	700	569	541	554	700	660	680
29	506	483	492	706	696	701	636	568	595	710	694	705
30	518	499	509	709	659	678	636	484	553	696	673	685
31	---	---	---	699	664	685	484	469	477	---	---	---
Month	---	---	---	709	465	595	735	340	606	710	466	640

06934500 MISSOURI RIVER AT HERMANN, MO—Continued



06934500 MISSOURI RIVER AT HERMANN, MO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	22.6	21.9	22.2	12.7	12.0	12.4	---	---	---	---	---	---
2	21.9	21.6	21.7	12.7	12.3	12.5	---	---	---	---	---	---
3	21.6	21.2	21.4	12.8	12.3	12.6	---	---	---	---	---	---
4	21.4	21.0	21.2	13.2	12.7	13.0	---	---	---	---	---	---
5	21.5	21.0	21.2	---	---	---	---	---	---	---	---	---
6	21.5	21.2	21.3	---	---	---	---	---	---	---	---	---
7	21.4	21.1	21.2	---	---	---	---	---	---	---	---	---
8	21.1	20.6	20.8	---	---	---	---	---	---	---	---	---
9	20.6	20.1	20.3	---	---	---	---	---	---	---	---	---
10	20.1	19.6	19.8	---	---	---	---	---	---	---	---	---
11	20.0	19.4	19.8	---	---	---	---	---	---	---	---	---
12	20.1	19.6	19.9	---	---	---	---	---	---	---	---	---
13	20.2	20.0	20.1	---	---	---	---	---	---	---	---	---
14	20.1	19.9	20.0	---	---	---	---	---	---	---	---	---
15	20.0	19.7	19.9	---	---	---	---	---	---	---	---	---
16	19.7	18.6	19.1	---	---	---	---	---	---	---	---	---
17	18.6	17.5	18.0	---	---	---	---	---	---	---	---	---
18	17.5	16.7	17.0	---	---	---	---	---	---	---	---	---
19	16.7	16.1	16.3	---	---	---	---	---	---	---	---	---
20	16.2	15.8	16.0	---	---	---	---	---	---	---	---	---
21	16.1	15.8	16.0	---	---	---	---	---	---	---	---	---
22	15.8	15.2	15.5	---	---	---	---	---	---	---	---	---
23	15.2	14.9	15.1	---	---	---	---	---	---	---	---	---
24	15.0	14.2	14.6	---	---	---	---	---	---	---	---	---
25	14.2	13.5	13.8	---	---	---	---	---	---	---	---	---
26	13.5	12.6	13.0	---	---	---	---	---	---	---	---	---
27	12.6	11.8	12.1	---	---	---	---	---	---	---	---	---
28	11.8	11.5	11.7	---	---	---	---	---	---	---	---	---
29	11.7	11.2	11.4	---	---	---	---	---	---	---	---	---
30	12.3	11.5	11.8	---	---	---	---	---	---	---	---	---
31	12.6	12.0	12.3	---	---	---	---	---	---	---	---	---
Month	22.6	11.2	17.6	---	---	---	---	---	---	---	---	---

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

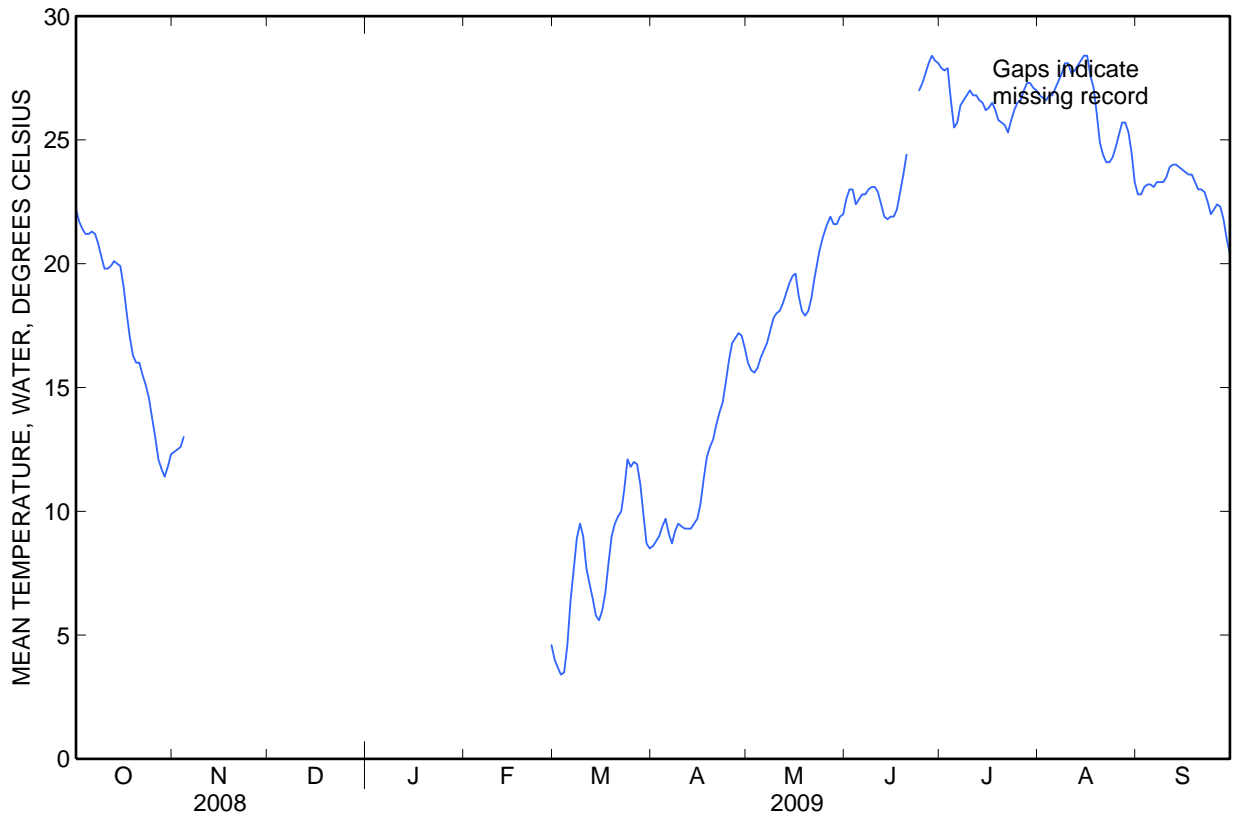
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	4.2	3.8	4.0	8.7	8.4	8.6	16.3	15.8	16.0
2	---	---	---	3.9	3.5	3.7	9.0	8.6	8.8	15.8	15.6	15.7
3	---	---	---	3.6	3.2	3.4	9.3	8.7	9.0	15.7	15.6	15.6
4	---	---	---	3.8	3.1	3.5	9.7	9.1	9.4	16.0	15.6	15.8
5	---	---	---	5.6	3.8	4.6	9.9	9.6	9.7	16.4	16.0	16.2
6	---	---	---	7.2	5.6	6.4	9.6	8.6	9.1	16.7	16.3	16.5
7	---	---	---	8.3	7.1	7.6	9.0	8.4	8.7	17.3	16.4	16.8
8	---	---	---	9.6	8.3	8.9	9.6	8.8	9.2	17.6	17.0	17.3
9	---	---	---	9.6	9.3	9.5	9.6	9.4	9.5	18.2	17.4	17.8
10	---	---	---	9.5	8.3	9.0	9.4	9.2	9.4	18.2	17.8	18.0
11	---	---	---	8.3	7.4	7.7	9.6	9.0	9.3	18.3	17.7	18.1
12	---	---	---	7.4	6.8	7.1	9.4	9.2	9.3	18.8	17.8	18.4
13	---	---	---	6.8	6.2	6.5	9.5	9.2	9.3	19.1	18.5	18.8
14	---	---	---	6.2	5.6	5.8	9.6	9.4	9.5	19.4	18.9	19.2
15	---	---	---	5.8	5.4	5.6	10.0	9.4	9.7	19.8	19.2	19.5
16	---	---	---	6.3	5.6	6.0	10.8	9.9	10.3	19.7	19.4	19.6
17	---	---	---	7.4	6.3	6.7	11.9	10.8	11.3	19.4	18.3	18.7
18	---	---	---	8.5	7.4	7.9	12.3	11.9	12.2	18.3	17.9	18.1
19	---	---	---	9.5	8.5	9.0	12.7	12.3	12.6	18.1	17.7	17.9
20	---	---	---	9.8	9.1	9.5	13.3	12.7	12.9	18.4	17.9	18.1
21	---	---	---	10.2	9.6	9.8	13.9	13.2	13.5	19.1	18.3	18.6
22	---	---	---	10.2	9.8	10	14.3	13.6	14.0	19.9	19.1	19.4
23	---	---	---	11.8	10.2	10.9	14.8	14.1	14.4	20.7	19.9	20.2
24	---	---	---	12.3	11.8	12.1	15.7	14.7	15.2	21.1	20.7	20.8
25	---	---	---	12.0	11.7	11.8	16.6	15.6	16.1	21.5	21.1	21.2
26	---	---	---	12.4	11.8	12.0	17.2	16.5	16.8	21.9	21.4	21.6
27	---	---	---	12.2	11.6	11.9	17.2	16.9	17.0	22.1	21.8	21.9
28	5.0	4.2	4.6	11.6	10.6	11.1	17.5	16.9	17.2	21.9	21.4	21.6
29	---	---	---	10.6	9.3	9.9	17.5	17.0	17.1	22.1	21.2	21.6
30	---	---	---	9.3	8.5	8.7	17.0	16.3	16.6	22.1	21.7	21.9
31	---	---	---	8.7	8.4	8.5	---	---	---	22.3	21.7	22.0
Month	---	---	---	12.4	3.1	8.0	17.5	8.4	11.9	22.3	15.6	18.8

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	23.0	22.2	22.6	28.1	27.8	27.9	27.1	26.6	26.8	23.0	22.6	22.8
2	23.3	22.8	23.0	28.0	27.6	27.8	27.0	26.3	26.7	23.1	22.5	22.8
3	23.2	22.5	23.0	28.1	27.7	27.9	27.0	26.3	26.6	23.4	22.7	23.1
4	22.7	22.2	22.4	27.8	25.6	26.6	26.9	26.7	26.8	23.5	23.0	23.2
5	22.9	22.3	22.6	25.7	25.3	25.5	27.3	26.4	26.8	23.4	23.1	23.2
6	23.0	22.6	22.8	26.1	25.4	25.7	27.5	26.8	27.1	23.3	22.9	23.1
7	23.0	22.6	22.8	26.7	26.1	26.4	27.8	27.0	27.4	23.5	23.0	23.3
8	23.3	22.8	23.0	26.9	26.3	26.6	28.1	27.3	27.7	23.5	23.0	23.3
9	23.3	22.8	23.1	27.0	26.5	26.8	28.6	27.7	28.1	23.7	23.1	23.3
10	23.6	22.8	23.1	27.2	26.8	27.0	28.5	27.9	28.1	23.9	23.1	23.5
11	23.4	22.8	22.9	26.9	26.6	26.8	28.1	27.4	27.7	24.2	23.5	23.9
12	22.8	22.1	22.4	26.9	26.7	26.8	28.2	27.4	27.8	24.2	23.8	24.0
13	22.1	21.7	21.9	26.9	26.4	26.6	28.2	27.8	28.0	24.2	23.9	24.0
14	21.9	21.7	21.8	26.8	26.3	26.5	28.6	27.8	28.2	24.1	23.7	23.9
15	22.1	21.8	21.9	26.3	26.1	26.2	28.8	28.1	28.4	24.0	23.7	23.8
16	22.1	21.6	21.9	26.6	26.0	26.3	28.6	28.1	28.4	23.9	23.5	23.7
17	22.5	21.9	22.2	26.6	26.2	26.5	28.1	27.3	27.6	23.9	23.4	23.6
18	23.3	22.5	22.9	26.5	25.9	26.2	27.3	27.0	27.1	23.7	23.4	23.6
19	24.0	23.3	23.6	26.0	25.6	25.8	27.2	25.1	26.1	23.5	23.1	23.3
20	24.8	24.0	24.4	26.0	25.4	25.7	25.1	24.6	24.9	23.1	22.8	23.0
21	---	---	---	25.9	25.3	25.6	24.6	24.2	24.4	23.2	22.7	23.0
22	---	---	---	25.6	25.0	25.3	24.3	23.9	24.1	23.1	22.7	22.9
23	26.9	---	---	26.2	25.3	25.8	24.3	23.9	24.1	22.7	22.3	22.5
24	27.3	26.8	27.0	26.6	25.8	26.2	24.6	24.0	24.3	22.3	21.9	22.0
25	27.7	27.1	27.3	26.7	26.3	26.5	25.1	24.3	24.7	22.5	21.9	22.2
26	28.1	27.5	27.7	27.0	26.2	26.6	25.6	24.9	25.2	22.5	22.2	22.4
27	28.5	27.9	28.1	27.4	26.5	27.0	26.0	25.4	25.7	22.6	22.0	22.3
28	28.6	28.3	28.4	27.6	27.0	27.3	25.8	25.5	25.7	22.4	21.5	21.8
29	28.4	28.0	28.2	27.7	26.9	27.3	25.6	25.1	25.3	21.5	20.7	21.0
30	28.2	28.0	28.1	27.5	26.9	27.1	25.3	23.7	24.5	20.7	20.2	20.4
31	---	---	---	27.3	26.6	27.0	23.7	23.0	23.3	---	---	---
Month	---	---	---	28.1	25.0	26.6	28.8	23.0	26.4	24.2	20.2	23.0

06934500 MISSOURI RIVER AT HERMANN, MO—Continued



06934500 MISSOURI RIVER AT HERMANN, MO—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	8.1	7.4	7.7	9.2	9.1	9.2	---	---	---	---	---	---
2	8.4	7.6	8.0	9.4	9.2	9.3	---	---	---	---	---	---
3	9.2	7.9	8.6	9.4	9.3	9.4	---	---	---	---	---	---
4	9.7	8.6	9.0	9.4	9.3	9.4	---	---	---	---	---	---
5	9.8	8.6	9.1	---	---	---	---	---	---	---	---	---
6	9.8	8.6	9.2	---	---	---	---	---	---	---	---	---
7	9.2	8.3	8.6	---	---	---	---	---	---	---	---	---
8	9.4	8.0	8.7	---	---	---	---	---	---	---	---	---
9	9.9	8.3	9.1	---	---	---	---	---	---	---	---	---
10	10.2	8.9	9.5	---	---	---	---	---	---	---	---	---
11	9.9	8.9	9.5	---	---	---	---	---	---	---	---	---
12	9.7	8.7	9.2	---	---	---	---	---	---	---	---	---
13	9.1	8.3	8.7	---	---	---	---	---	---	---	---	---
14	8.4	7.8	8.1	---	---	---	---	---	---	---	---	---
15	8.2	7.6	7.9	---	---	---	---	---	---	---	---	---
16	8.6	7.8	8.1	---	---	---	---	---	---	---	---	---
17	8.4	7.3	7.8	---	---	---	---	---	---	---	---	---
18	7.7	7.3	7.5	---	---	---	---	---	---	---	---	---
19	8.0	7.6	7.8	---	---	---	---	---	---	---	---	---
20	8.7	7.9	8.2	---	---	---	---	---	---	---	---	---
21	9.1	8.3	8.8	---	---	---	---	---	---	---	---	---
22	9.2	8.8	9.0	---	---	---	---	---	---	---	---	---
23	9.2	8.8	9.0	---	---	---	---	---	---	---	---	---
24	8.8	8.6	8.7	---	---	---	---	---	---	---	---	---
25	8.6	7.6	8.2	---	---	---	---	---	---	---	---	---
26	7.7	7.3	7.5	---	---	---	---	---	---	---	---	---
27	8.1	7.7	7.9	---	---	---	---	---	---	---	---	---
28	8.5	8.0	8.3	---	---	---	---	---	---	---	---	---
29	8.7	8.5	8.6	---	---	---	---	---	---	---	---	---
30	8.9	8.7	8.8	---	---	---	---	---	---	---	---	---
31	9.1	8.9	9.0	---	---	---	---	---	---	---	---	---
Month	10.2	7.3	8.5	---	---	---	---	---	---	---	---	---

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

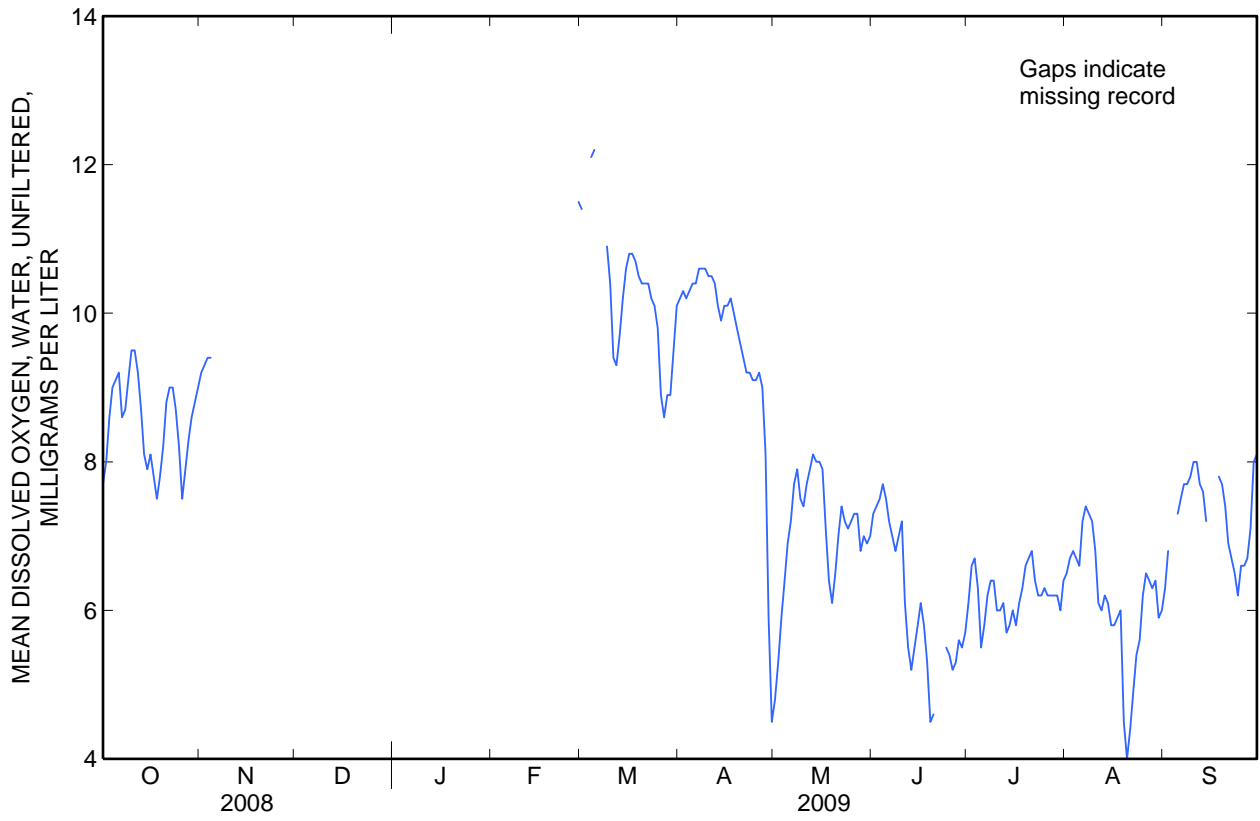
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	11.5	11.2	11.4	10.3	10.2	10.2	5.0	4.4	4.8
2	---	---	---	---	---	---	10.4	10.2	10.3	5.6	5.0	5.3
3	---	---	---	12.2	---	---	10.2	10.1	10.2	6.1	5.6	5.9
4	---	---	---	12.2	11.9	12.1	10.4	10.2	10.3	6.6	6.1	6.4
5	---	---	---	12.3	12.1	12.2	10.4	10.3	10.4	7.0	6.6	6.9
6	---	---	---	---	---	---	10.6	10.3	10.4	7.5	7.0	7.2
7	---	---	---	---	---	---	10.7	10.5	10.6	7.9	7.4	7.7
8	---	---	---	---	---	---	10.7	10.5	10.6	8.0	7.8	7.9
9	---	---	---	11.0	10.8	10.9	10.7	10.5	10.6	7.8	7.2	7.5
10	---	---	---	10.9	9.6	10.4	10.6	10.4	10.5	7.6	7.2	7.4
11	---	---	---	9.6	9.2	9.4	10.6	10.4	10.5	7.8	7.6	7.7
12	---	---	---	9.5	9.2	9.3	10.6	10.2	10.4	8.2	7.8	7.9
13	---	---	---	9.9	9.4	9.7	10.3	9.9	10.1	8.2	8.1	8.1
14	---	---	---	10.4	9.9	10.2	9.9	9.8	9.9	8.1	8.0	8.0
15	---	---	---	10.7	10.4	10.6	10.2	9.9	10.1	8.2	7.9	8.0
16	---	---	---	10.9	10.7	10.8	10.2	10.0	10.1	8.1	7.5	7.9
17	---	---	---	10.9	10.7	10.8	10.3	10.0	10.2	8.0	6.8	7.1
18	---	---	---	10.8	10.4	10.7	10.2	9.9	10.0	6.9	6.0	6.4
19	---	---	---	10.7	10.3	10.5	9.9	9.6	9.8	6.4	6.0	6.1
20	---	---	---	10.5	10.3	10.4	9.7	9.4	9.6	6.6	6.4	6.5
21	---	---	---	10.5	10.3	10.4	9.5	9.2	9.4	7.3	6.6	7.0
22	---	---	---	10.4	10.3	10.4	9.3	9.2	9.2	7.7	7.2	7.4
23	---	---	---	10.3	10.0	10.2	9.3	9.1	9.2	7.6	7.0	7.2
24	---	---	---	10.3	10.0	10.1	9.2	9.0	9.1	7.2	7.0	7.1
25	---	---	---	10.3	9.2	9.8	9.2	9.1	9.1	7.4	7.1	7.2
26	---	---	---	9.2	8.7	8.9	9.3	9.1	9.2	7.4	7.2	7.3
27	---	---	---	8.8	8.6	8.6	9.2	8.8	9.0	7.4	7.1	7.3
28	11.6	11.2	11.5	9.0	8.7	8.9	8.8	6.9	8.1	7.1	6.8	6.8
29	---	---	---	9.2	8.8	8.9	6.9	4.8	5.9	7.2	6.8	7.0
30	---	---	---	9.9	9.1	9.5	4.8	4.3	4.5	7.2	6.8	6.9
31	---	---	---	10.2	9.9	10.1	---	---	---	7.2	6.8	7.0
Month	---	---	---	---	---	---	10.7	4.3	9.6	8.2	4.4	7.1

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	7.4	7.2	7.3	6.4	5.8	6.1	6.7	6.4	6.5	6.5	6.1	6.3
2	7.5	7.3	7.4	6.7	6.4	6.6	6.9	6.4	6.7	7.2	6.5	6.8
3	7.7	7.3	7.5	6.8	6.6	6.7	7.0	6.5	6.8	---	---	---
4	8.0	7.5	7.7	7.0	5.6	6.3	6.8	6.5	6.7	---	---	---
5	7.9	7.3	7.5	5.7	5.3	5.5	7.0	6.1	6.6	7.5	6.9	7.3
6	7.3	7.1	7.2	6.2	5.4	5.8	7.7	6.6	7.2	7.6	7.3	7.5
7	7.1	6.8	7.0	6.3	6.1	6.2	7.8	7.1	7.4	7.8	7.5	7.7
8	6.8	6.8	6.8	6.5	6.2	6.4	7.7	6.8	7.3	8.0	7.6	7.7
9	7.1	6.8	7.0	6.6	6.0	6.4	7.7	6.8	7.2	8.1	7.6	7.8
10	7.2	7.0	7.2	6.1	5.8	6.0	7.3	6.4	6.8	8.4	7.5	8.0
11	7.0	5.8	6.1	6.2	5.8	6.0	6.5	5.7	6.1	8.2	7.8	8.0
12	5.8	5.0	5.5	6.2	5.8	6.1	6.3	5.6	6.0	7.9	7.5	7.7
13	5.4	5.0	5.2	5.8	5.4	5.7	6.4	5.9	6.2	7.9	7.4	7.6
14	5.6	5.4	5.5	6.0	5.6	5.8	6.4	5.8	6.1	7.7	6.9	7.2
15	5.9	5.6	5.8	6.0	5.7	6.0	6.1	4.9	5.8	---	---	---
16	6.2	5.9	6.1	5.9	5.7	5.8	6.1	5.4	5.8	---	---	---
17	6.1	5.6	5.8	6.2	5.8	6.1	6.1	5.6	5.9	8.2	---	---
18	5.6	4.9	5.3	6.4	6.2	6.3	6.6	5.4	6.0	8.2	7.5	7.8
19	4.9	4.3	4.5	6.8	6.4	6.6	6.2	3.6	4.5	8.0	7.4	7.7
20	5.0	4.4	4.6	6.9	6.4	6.7	4.2	3.9	4.0	7.6	6.9	7.4
21	---	---	---	7.0	6.7	6.8	4.7	4.1	4.4	7.4	6.5	6.9
22	---	---	---	6.9	6.0	6.4	5.1	4.7	4.9	7.0	6.5	6.7
23	5.5	---	---	6.5	5.8	6.2	5.6	5.1	5.4	6.7	6.3	6.5
24	5.5	5.1	5.5	6.6	5.8	6.2	5.9	5.4	5.6	6.4	6.0	6.2
25	5.5	5.3	5.4	6.5	6.0	6.3	6.6	5.9	6.2	7.1	6.1	6.6
26	5.3	5.1	5.2	6.4	6.0	6.2	6.7	6.0	6.5	7.2	6.2	6.6
27	5.4	5.2	5.3	6.5	6.0	6.2	6.7	5.7	6.4	7.1	6.3	6.7
28	5.7	5.4	5.6	6.4	6.0	6.2	6.6	5.8	6.3	8.2	6.6	7.1
29	5.8	5.3	5.5	6.6	5.8	6.2	7.1	5.7	6.4	8.5	7.0	8.0
30	5.9	5.3	5.7	6.4	5.7	6.0	6.8	5.5	5.9	8.5	7.1	8.1
31	---	---	---	6.7	6.0	6.4	6.2	5.8	6.0	---	---	---
Month	---	---	---	7.0	5.3	6.2	7.8	3.6	6.1	---	---	---

06934500 MISSOURI RIVER AT HERMANN, MO—Continued



06934500 MISSOURI RIVER AT HERMANN, MO—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	35	27	30	210	170	190	---	---	---	---	---	---
2	36	27	30	180	170	170	---	---	---	---	---	---
3	34	26	28	170	160	160	---	---	---	---	---	---
4	32	25	27	160	130	150	---	---	---	---	---	---
5	32	22	26	---	---	---	---	---	---	---	---	---
6	35	23	25	---	---	---	---	---	---	---	---	---
7	30	22	25	---	---	---	---	---	---	---	---	---
8	34	24	28	---	---	---	---	---	---	---	---	---
9	35	22	27	---	---	---	---	---	---	---	---	---
10	35	24	28	---	---	---	---	---	---	---	---	---
11	37	24	29	---	---	---	---	---	---	---	---	---
12	39	27	32	---	---	---	---	---	---	---	---	---
13	48	33	41	---	---	---	---	---	---	---	---	---
14	55	40	48	---	---	---	---	---	---	---	---	---
15	55	33	43	---	---	---	---	---	---	---	---	---
16	48	36	42	---	---	---	---	---	---	---	---	---
17	100	42	63	---	---	---	---	---	---	---	---	---
18	110	81	100	---	---	---	---	---	---	---	---	---
19	110	78	99	---	---	---	---	---	---	---	---	---
20	93	58	73	---	---	---	---	---	---	---	---	---
21	74	52	62	---	---	---	---	---	---	---	---	---
22	100	61	81	---	---	---	---	---	---	---	---	---
23	120	93	100	---	---	---	---	---	---	---	---	---
24	170	110	140	---	---	---	---	---	---	---	---	---
25	470	170	300	---	---	---	---	---	---	---	---	---
26	520	460	500	---	---	---	---	---	---	---	---	---
27	520	460	500	---	---	---	---	---	---	---	---	---
28	460	370	410	---	---	---	---	---	---	---	---	---
29	380	340	360	---	---	---	---	---	---	---	---	---
30	350	270	310	---	---	---	---	---	---	---	---	---
31	280	210	240	---	---	---	---	---	---	---	---	---
Month	520	22	120	---	---	---	---	---	---	---	---	---

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

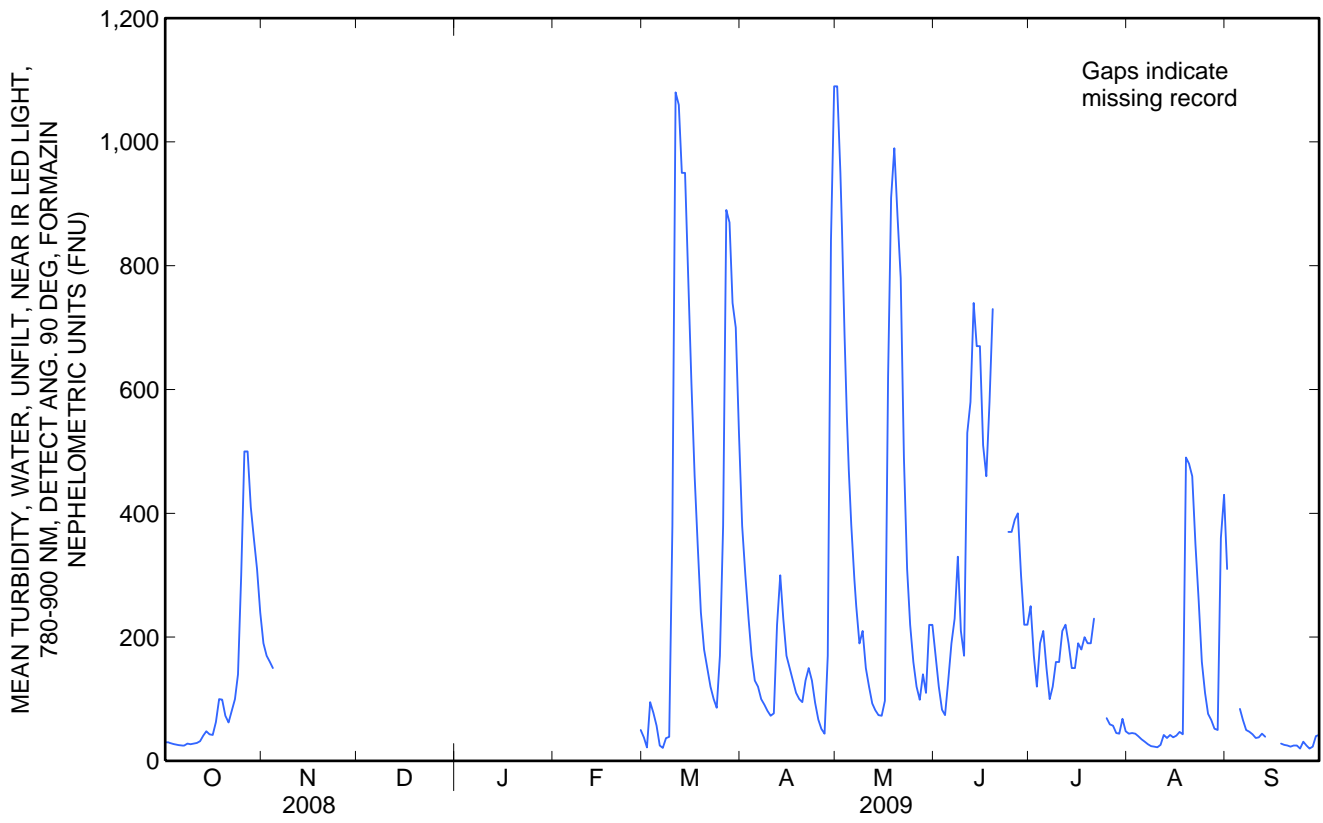
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	47	29	38	560	320	380	1,110	1,030	1,090
2	---	---	---	39	16	22	360	270	300	1,100	800	950
3	---	---	---	120	24	95	360	190	230	880	620	750
4	---	---	---	93	64	78	200	140	170	660	450	560
5	---	---	---	100	33	57	150	120	130	490	380	430
6	---	---	---	34	19	25	140	110	120	390	250	320
7	---	---	---	64	14	21	120	92	100	290	210	250
8	---	---	---	230	18	37	110	81	91	220	180	190
9	---	---	---	54	32	39	96	72	81	230	180	210
10	---	---	---	1,090	36	380	84	66	73	200	120	150
11	---	---	---	1,090	1,080	1,080	120	65	77	160	100	120
12	---	---	---	1,080	970	1,060	300	110	220	110	78	93
13	---	---	---	1,070	820	950	330	270	300	120	71	82
14	---	---	---	1,070	810	950	280	180	230	87	68	74
15	---	---	---	1,010	610	780	190	160	170	84	65	73
16	---	---	---	760	500	610	170	140	150	210	71	97
17	---	---	---	560	400	460	160	110	130	940	210	620
18	---	---	---	420	280	350	130	98	110	1,020	800	910
19	---	---	---	300	190	240	110	95	100	1,230	780	990
20	---	---	---	200	150	180	110	87	95	960	760	880
21	---	---	---	230	130	150	160	100	130	940	630	780
22	---	---	---	140	110	120	170	130	150	630	370	490
23	---	---	---	110	91	100	150	110	130	380	240	310
24	---	---	---	120	75	86	120	61	94	260	180	220
25	---	---	---	350	78	170	82	56	67	200	140	160
26	---	---	---	560	320	380	61	47	52	150	100	120
27	---	---	---	1,120	560	890	49	41	44	130	87	99
28	57	40	50	1,080	720	870	510	41	170	170	110	140
29	---	---	---	920	620	740	1,000	510	840	140	92	110
30	---	---	---	810	570	700	1,110	970	1,090	310	110	220
31	---	---	---	650	420	530	---	---	---	280	170	220
Month	---	---	---	1,120	14	390	1,110	41	200	1,230	65	380

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	220	140	170	320	200	250	50	40	44	360	250	310
2	160	88	120	210	140	170	54	41	45	270	---	---
3	93	77	83	150	97	120	49	40	44	---	---	---
4	84	69	74	340	72	190	47	36	40	---	88	---
5	160	81	130	270	170	210	40	30	35	96	72	84
6	210	160	190	190	100	150	38	26	31	77	54	66
7	340	160	230	120	91	100	34	23	27	59	43	50
8	360	280	330	130	110	120	30	21	24	50	42	47
9	290	150	210	190	110	160	28	19	23	48	37	43
10	260	140	170	190	140	160	26	20	22	42	32	37
11	620	260	530	260	170	210	41	19	26	45	33	38
12	710	510	580	250	190	220	49	35	42	48	37	44
13	770	700	740	200	170	190	43	31	37	44	35	39
14	740	610	670	180	120	150	46	37	42	40	---	---
15	710	620	670	190	120	150	56	30	38	---	---	---
16	670	420	510	230	160	190	52	32	41	---	---	---
17	540	400	460	200	160	180	59	40	47	---	28	---
18	680	510	580	210	180	200	82	33	43	32	24	28
19	910	560	730	210	160	190	760	66	490	31	21	26
20	980	---	---	240	160	190	540	400	480	37	21	25
21	---	---	---	300	170	230	550	360	460	36	19	23
22	---	---	---	180	---	---	400	320	350	31	19	25
23	340	---	---	---	58	---	330	190	260	32	19	25
24	420	280	370	---	74	---	200	120	160	23	17	20
25	410	320	370	82	54	69	140	89	110	42	19	31
26	440	330	390	68	51	59	99	63	76	38	18	25
27	450	330	400	64	44	57	79	48	66	23	17	20
28	360	260	300	51	37	45	66	30	52	32	18	23
29	280	170	220	52	36	44	72	26	50	47	31	40
30	270	160	220	91	41	68	530	72	360	48	36	42
31	---	---	---	58	41	48	520	340	430	---	---	---
Month	---	---	---	---	---	---	760	19	130	---	---	---

06934500 MISSOURI RIVER AT HERMANN, MO—Continued



06934500 MISSOURI RIVER AT HERMANN, MO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
[e, estimated; $\times 10^6$, million]

Day	Mean discharge	Mean concentration	Sediment discharge	Mean discharge	Mean concentration	Sediment discharge	Mean discharge	Mean concentration	Sediment discharge
	(ft ³ /s)	(mg/L)	(tons/day)	(ft ³ /s)	(mg/L)	(tons/day)	(ft ³ /s)	(mg/L)	(tons/day)
	October			November			December		
1	83,100	108	24,200	96,500	450	117,000	47,900	---	e9,000
2	78,900	107	22,800	87,100	416	97,900	49,400	---	e9,400
3	75,600	104	21,300	77,400	394	82,400	51,900	---	e8,440
4	75,200	101	20,500	73,000	349	68,700	50,400	---	e8,830
5	74,300	99	19,900	69,000	307	57,200	48,200	---	e8,740
6	73,300	97	19,300	66,200	---	e33,200	48,400	---	e7,340
7	73,100	97	19,100	66,400	---	e21,900	46,000	---	e8,680
8	68,900	103	19,200	90,600	---	e38,100	43,800	---	e8,580
9	61,700	101	16,800	101,000	---	e65,200	42,800	---	e9,050
10	55,400	104	15,600	87,000	---	e81,900	42,200	---	e8,860
11	55,600	107	16,000	78,900	---	e68,800	43,400	---	e11,200
12	56,800	116	17,800	77,300	---	e53,500	45,900	---	e10,900
13	56,900	135	20,700	75,700	---	e35,000	45,900	---	e11,500
14	55,200	149	22,100	72,500	---	e20,100	44,500	---	e11,500
15	55,000	134	19,900	69,500	---	e16,300	43,700	---	e9,870
16	58,400	136	21,400	64,000	---	e17,400	43,300	---	e7,890
17	65,500	205	36,300	60,100	---	e17,600	44,200	---	e9,500
18	68,200	272	50,100	60,100	---	e18,000	45,100	---	e10,900
19	67,000	248	44,900	64,300	---	e16,500	43,400	---	e14,200
20	65,000	194	34,000	67,200	---	e16,700	43,300	---	e13,600
21	66,200	180	32,100	65,500	---	e15,100	45,400	---	e9,780
22	70,700	235	44,800	63,800	---	e15,400	45,700	---	e18,700
23	76,200	281	57,800	59,200	---	e15,300	43,600	---	e25,600
24	84,900	384	88,100	54,300	---	e11,900	43,100	---	e16,500
25	121,000	846	278,000	52,100	---	e15,900	42,200	---	e6,700
26	137,000	1,160	426,000	53,400	---	e14,900	40,500	---	e52,400
27	130,000	1,110	391,000	54,000	---	e11,100	44,800	---	e198,000
28	120,000	918	297,000	51,100	---	e9,770	93,400	---	e293,000
29	111,000	817	246,000	48,600	---	e9,820	132,000	---	e445,000
30	105,000	696	198,000	47,900	---	e9,370	137,000	---	e628,000
31	101,000	549	149,000	---	---	---	131,000	---	e416,000
Total	2,446,100	---	2,689,700	2,053,700	---	1,071,960	1,712,400	---	2,307,660

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
[e, estimated; $\times 10^6$, million]

Day	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/day)
	January			February			March		
1	123,000	---	e300,000	47,700	---	e8,670	50,600	113	15,400
2	109,000	---	e255,000	40,500	---	e6,310	51,700	113	15,800
3	92,100	---	e149,000	40,900	---	e5,130	57,300	266	41,100
4	80,700	---	e107,000	47,400	---	e7,710	62,500	200	33,700
5	70,400	---	e76,700	47,300	---	e6,890	54,800	150	22,200
6	69,100	---	e57,200	48,000	---	e7,570	48,400	91	11,900
7	72,500	---	e58,800	44,000	---	e6,500	44,600	92	11,100
8	70,200	---	e39,800	40,100	---	e7,680	41,900	131	14,900
9	66,500	---	e32,100	39,700	---	e38,300	40,400	126	13,800
10	62,400	---	e34,400	41,000	---	e126,000	69,900	1,370	259,000
11	56,700	---	e57,500	49,300	---	e186,000	143,000	2,430	938,000
12	51,900	---	e55,100	77,600	---	e226,000	165,000	2,340	1,040,000
13	50,400	---	e36,700	77,500	---	e194,000	155,000	2,140	893,000
14	52,400	---	e27,200	83,100	---	e130,000	140,000	2,090	792,000
15	53,700	---	e16,500	97,000	---	e115,000	126,000	1,670	566,000
16	56,500	---	e15,000	92,100	---	e93,700	106,000	1,320	378,000
17	57,800	---	e20,400	81,400	---	e78,000	85,500	999	231,000
18	49,400	---	e16,200	77,100	---	e68,100	71,600	765	148,000
19	41,900	---	e10,300	79,000	---	e60,900	65,400	532	93,800
20	40,000	---	e11,000	76,100	---	e61,000	60,500	419	68,500
21	40,100	---	e12,100	74,400	---	e70,000	59,900	361	58,300
22	43,300	---	e8,660	65,400	---	e55,800	61,600	299	49,800
23	45,900	---	e8,910	57,300	---	e49,100	61,500	256	42,500
24	45,600	---	e7,080	65,900	---	e46,100	65,400	230	40,600
25	45,500	---	e5,690	69,800	---	e41,700	85,400	546	126,000
26	46,700	---	e7,780	63,600	---	e28,700	117,000	1,030	324,000
27	51,700	---	e9,990	56,000	160	24,200	131,000	2,150	760,000
28	56,000	---	e8,320	53,000	148	21,200	140,000	1,860	703,000
29	54,700	---	e11,500	---	---	---	165,000	1,670	746,000
30	53,200	---	e6,800	---	---	---	174,000	1,520	712,000
31	53,000	---	e8,810	---	---	---	160,000	1,130	488,000
Total	1,862,300	---	1,471,540	1,732,200	---	1,770,260	2,860,900	---	9,637,400

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
[e, estimated; $\times 10^6$, million]

Day	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/day)
	April			May			June		
1	147,000	827	328,000	281,000	2,430	1,840,000	126,000	391	133,000
2	136,000	686	252,000	272,000	2,010	1,480,000	117,000	279	88,200
3	128,000	520	179,000	252,000	1,630	1,110,000	110,000	221	65,600
4	120,000	396	128,000	229,000	1,200	743,000	106,000	211	60,700
5	112,000	326	98,900	207,000	953	533,000	115,000	376	116,000
6	108,000	302	87,800	181,000	704	343,000	121,000	451	147,000
7	105,000	261	74,000	161,000	558	242,000	117,000	641	203,000
8	102,000	239	65,900	159,000	460	198,000	108,000	741	217,000
9	101,000	218	59,200	192,000	500	259,000	104,000	463	130,000
10	101,000	200	54,700	180,000	348	169,000	116,000	504	158,000
11	109,000	242	71,400	170,000	288	132,000	163,000	1,290	567,000
12	135,000	610	222,000	161,000	240	104,000	191,000	1,420	730,000
13	145,000	687	268,000	147,000	220	87,400	193,000	1,680	875,000
14	133,000	505	181,000	142,000	204	78,400	175,000	1,490	706,000
15	123,000	405	134,000	139,000	205	77,000	160,000	1,500	648,000
16	118,000	375	119,000	162,000	370	162,000	203,000	1,090	597,000
17	114,000	315	97,400	228,000	1,680	1,030,000	261,000	1,100	777,000
18	110,000	273	81,400	252,000	2,150	1,460,000	282,000	1,360	1,030,000
19	106,000	261	74,700	240,000	2,100	1,360,000	257,000	1,770	1,230,000
20	115,000	258	80,000	230,000	2,000	1,240,000	210,000	1,690	958,000
21	126,000	352	120,000	215,000	1,630	947,000	182,000	---	e648,000
22	128,000	362	125,000	201,000	1,020	555,000	170,000	---	e522,000
23	120,000	322	104,000	185,000	665	332,000	160,000	711	307,000
24	109,000	237	69,600	163,000	490	215,000	156,000	894	378,000
25	104,000	181	50,800	144,000	379	147,000	158,000	871	371,000
26	102,000	152	42,000	139,000	290	109,000	152,000	910	372,000
27	99,200	139	37,100	143,000	272	105,000	141,000	884	337,000
28	140,000	743	281,000	151,000	356	145,000	136,000	675	248,000
29	223,000	2,030	1,220,000	153,000	292	121,000	129,000	500	174,000
30	261,000	2,480	1,740,000	154,000	585	243,000	120,000	568	184,000
31	---	---	---	139,000	484	182,000	---	---	---
Total	3,780,200	---	6,445,900	5,772,000	---	15.74 $\times 10^6$	4,739,000	---	12.97 $\times 10^6$

06934500 MISSOURI RIVER AT HERMANN, MO—Continued

**SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
 WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
[e, estimated; $\times 10^6$, million]

Day	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/ day)	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/ day)	Mean discharge (ft ³ /s)	Mean concentration (mg/L)	Sediment discharge (tons/ day)
1	114,000	570	176,000	67,000	138	25,000	96,400	689	179,000
2	111,000	384	115,000	66,100	142	25,400	83,400	478	108,000
3	108,000	282	82,200	63,700	138	23,700	74,500	---	e65,300
4	132,000	523	186,000	61,200	128	21,100	69,100	253	47,200
5	145,000	482	188,000	59,600	119	19,100	65,400	219	38,700
6	124,000	338	113,000	58,800	108	17,200	64,100	178	30,900
7	116,000	281	87,600	59,400	101	16,100	64,600	150	26,200
8	111,000	314	94,500	59,600	94	15,100	62,700	145	24,600
9	109,000	412	121,000	59,800	92	14,900	63,400	134	23,000
10	97,800	412	109,000	59,600	91	14,600	64,900	120	21,100
11	92,800	533	133,000	60,900	109	17,900	63,100	131	22,300
12	97,700	507	134,000	64,100	131	22,700	67,200	135	24,600
13	99,000	442	118,000	65,800	125	22,200	66,600	126	22,700
14	103,000	353	98,000	63,700	131	22,500	61,300	---	e19,800
15	107,000	410	118,000	64,400	125	21,800	59,800	---	e18,500
16	106,000	450	129,000	63,300	137	23,500	61,500	---	e18,300
17	102,000	461	127,000	62,100	146	24,400	61,900	108	18,000
18	94,700	478	122,000	70,200	172	32,500	66,400	103	18,500
19	87,200	441	104,000	125,000	1,280	435,000	64,300	99	17,200
20	82,500	492	109,000	157,000	1,110	469,000	59,900	100	16,200
21	79,200	510	109,000	159,000	989	426,000	57,000	89	13,700
22	77,200	295	61,500	143,000	792	306,000	55,100	100	14,900
23	76,500	210	43,400	120,000	571	185,000	55,500	95	14,200
24	77,200	219	45,600	100,000	372	101,000	64,000	86	14,900
25	76,400	186	38,500	87,200	265	62,300	81,600	116	25,500
26	73,700	172	34,200	79,200	201	43,100	78,600	90	19,000
27	72,200	162	31,700	78,200	183	38,500	67,700	86	15,700
28	70,900	138	26,400	76,100	146	30,000	60,300	98	16,000
29	70,200	141	26,700	79,000	184	39,200	61,600	133	22,200
30	70,900	196	37,400	97,900	1,020	269,000	65,600	133	23,600
31	68,100	143	26,400	104,000	928	262,000	---	---	---
Total	2,952,200	---	2,945,100	2,534,900	---	3,045,800	1,987,500	---	939,800

	Total discharge (ft ³ /s)	Total suspended sediment discharge (tons)
Year	34,433,400	61,051,420