

Water-Data Report 2013

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO

Mississippi River Main Stem

LOCATION.--Lat 38°37'44.4", long 90°10'47.2" referenced to North American Datum of 1983, in T.45 N., R.7 E., St. Louis City, MO, Hydrologic Unit 07140101, on downstream side of west pier of Eads Bridge at St. Louis, 15.0 mi downstream from Missouri River, 19.2 mi upstream from Meramec River, and at mile 180.0 above the Ohio River.

DRAINAGE AREA.--697,000 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: January 1861 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE HEIGHT: March 1933 to current year. Since January 1861 in reports of Mississippi River Commission. Since January 1890 in reports of the National Weather Service.

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

GAGE.--Water-stage recorder. Datum of gage is 379.58 ft above North American Vertical Datum of 1988. Prior to May 5, 1934, nonrecording gage 0.4 mi downstream; May 5, 1934, to Dec. 9, 1952, water-stage recorder at site 20 ft downstream at present datum.

REMARKS.--No estimated daily discharges. Water-discharge records good. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River Basin and by many reservoirs and diversions for irrigation in Missouri River Basin.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 27, 1844, reached a stage of 41.32 ft, from floodmarks, discharge, 1,000,000 ft³/s, computed by U.S. Army Corps of Engineers. Flood in April 1785 may have reached a stage of 42.0 ft. Minimum flow, 18,000 ft³/s, Dec. 23, 1863.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 769,000 ft³/s, June 4, gage height, 40.49 ft; minimum discharge, 56,400 ft³/s, Jan. 1, gage height, 4.55 ft.

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued

**DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	67,600	85,600	76,200	57,400	112,000	111,000	191,000	577,000	623,000	390,000	151,000	96,900
2	66,800	86,500	72,600	58,700	106,000	113,000	187,000	560,000	693,000	400,000	125,000	101,000
3	67,300	86,800	73,000	61,300	116,000	107,000	199,000	549,000	742,000	412,000	128,000	98,300
4	66,900	85,100	75,400	62,200	114,000	105,000	214,000	563,000	763,000	416,000	133,000	92,100
5	67,300	83,100	78,000	61,200	110,000	110,000	223,000	563,000	760,000	416,000	129,000	89,000
6	67,500	83,100	77,700	60,900	109,000	105,000	220,000	560,000	741,000	416,000	130,000	88,400
7	68,200	83,300	73,800	60,700	104,000	96,800	226,000	566,000	707,000	412,000	136,000	90,000
8	68,900	83,800	71,800	60,200	99,800	107,000	222,000	569,000	667,000	405,000	173,000	92,900
9	64,000	83,700	76,500	62,900	98,600	116,000	220,000	557,000	632,000	396,000	257,000	94,500
10	61,400	83,600	75,200	66,900	107,000	160,000	227,000	541,000	606,000	386,000	301,000	92,900
11	61,200	82,100	72,900	68,600	115,000	284,000	268,000	526,000	583,000	377,000	291,000	87,100
12	61,200	81,300	71,700	67,200	115,000	385,000	347,000	511,000	564,000	369,000	255,000	85,700
13	62,600	81,600	70,400	69,900	130,000	419,000	392,000	497,000	549,000	352,000	218,000	89,500
14	74,600	85,800	67,800	71,200	137,000	409,000	403,000	481,000	536,000	330,000	201,000	92,400
15	90,800	92,000	65,300	74,300	139,000	390,000	386,000	468,000	521,000	313,000	186,000	91,400
16	99,000	92,700	64,000	75,400	130,000	372,000	376,000	458,000	506,000	300,000	160,000	87,600
17	94,800	87,700	63,700	73,400	122,000	354,000	405,000	449,000	494,000	288,000	139,000	82,400
18	87,600	83,800	64,800	70,900	116,000	346,000	434,000	440,000	497,000	276,000	137,000	86,400
19	81,000	83,300	67,600	66,700	115,000	330,000	489,000	429,000	500,000	263,000	135,000	87,800
20	84,200	82,500	75,700	66,900	101,000	317,000	556,000	421,000	496,000	247,000	131,000	88,600
21	86,600	82,600	80,400	68,300	95,600	299,000	598,000	437,000	479,000	235,000	131,000	90,100
22	87,700	84,400	74,700	66,200	92,000	273,000	630,000	452,000	453,000	223,000	129,000	93,500
23	92,900	85,900	72,700	60,300	89,300	242,000	642,000	454,000	432,000	207,000	124,000	92,900
24	93,600	82,700	73,000	59,000	87,200	228,000	651,000	443,000	419,000	192,000	131,000	92,600
25	88,900	78,300	74,200	58,900	90,400	223,000	652,000	418,000	399,000	181,000	127,000	93,000
26	91,000	77,600	74,300	60,200	105,000	196,000	641,000	391,000	389,000	182,000	122,000	90,400
27	91,500	80,000	66,300	63,100	118,000	177,000	622,000	372,000	380,000	177,000	117,000	87,900
28	89,900	81,800	62,300	64,600	115,000	185,000	607,000	383,000	372,000	161,000	110,000	86,500
29	89,900	82,000	61,700	69,200	---	204,000	600,000	432,000	373,000	153,000	102,000	86,000
30	90,000	80,300	59,900	88,300	---	207,000	592,000	481,000	381,000	148,000	95,000	82,700
31	89,600	---	57,900	117,000	---	198,000	---	529,000	---	156,000	96,300	---
Mean	79,180	83,770	70,690	67,480	110,300	231,300	414,000	486,400	541,900	296,100	154,800	90,350
Max	99,000	92,700	80,400	117,000	139,000	419,000	652,000	577,000	763,000	416,000	301,000	101,000
Min	61,200	77,600	57,900	57,400	87,200	96,800	187,000	372,000	372,000	148,000	95,000	82,400
In.	0.13	0.13	0.12	0.11	0.16	0.38	0.66	0.80	0.87	0.49	0.26	0.14

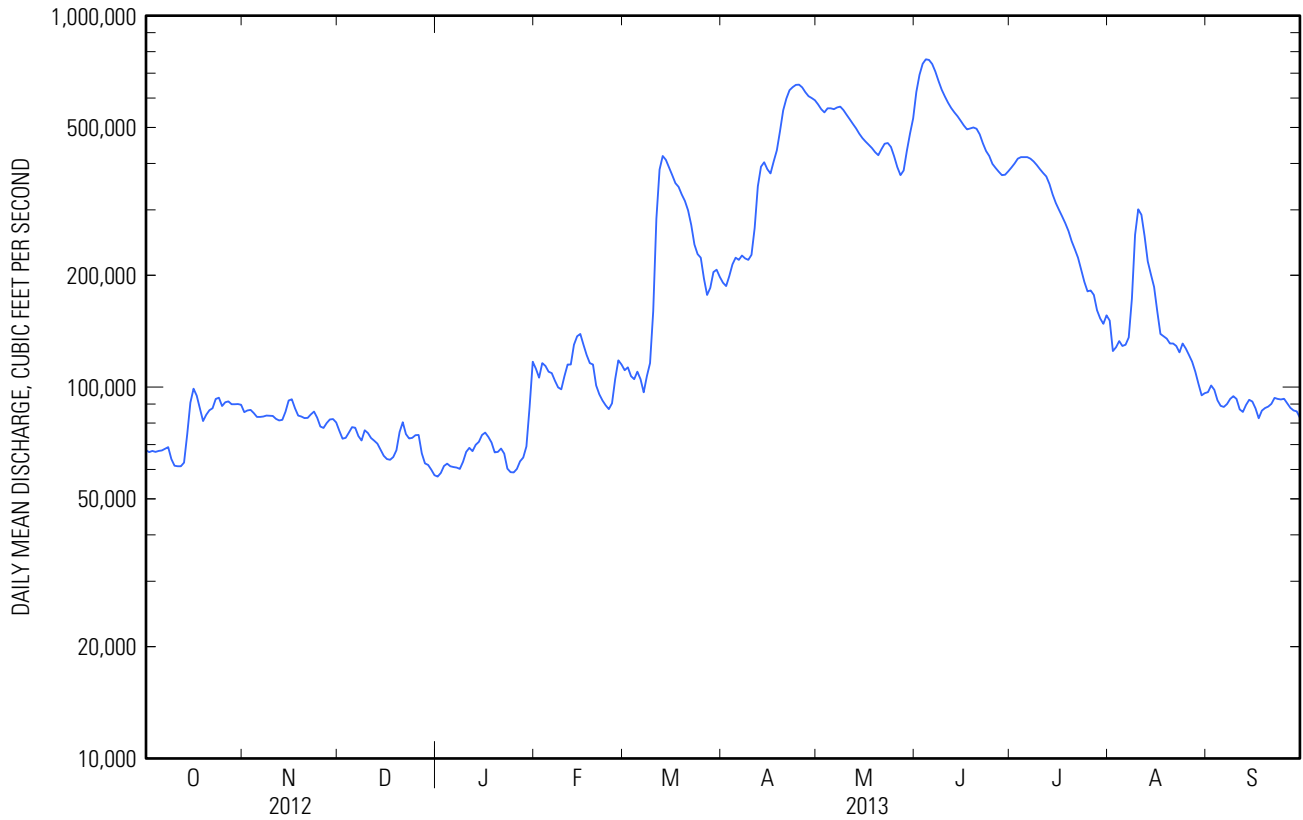
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	141,000	145,000	125,300	119,700	147,300	233,200	307,400	304,800	284,800	229,100	150,800	140,300
Max	575,300	396,600	452,400	307,800	301,400	521,800	692,500	588,700	600,600	808,800	700,200	531,800
(WY)	(1987)	(2010)	(1983)	(1973)	(1974)	(1973)	(1973)	(1995)	(1947)	(1993)	(1993)	(1993)
Min	44,170	47,920	42,130	31,340	41,900	74,550	110,100	79,500	70,260	67,130	43,510	54,640
(WY)	(1940)	(1940)	(1938)	(1940)	(1940)	(1964)	(1934)	(1934)	(1934)	(1936)	(1936)	(1939)

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1933 - 2013	
Annual mean	132,100		219,000		194,100	
Highest annual mean					429,700	1993
Lowest annual mean					67,700	1934
Highest daily mean	322,000	Mar 25	763,000	Jun 4	1,050,000	Aug 1, 1993
Lowest daily mean	57,900	Dec 31	59,400	Jan 1	27,800	Dec 12, 1937
Annual seven-day minimum	63,900	Oct 7	59,800	Dec 30	28,200	Jan 18, 1940
Maximum peak flow			769,000	Jun 4	1,080,000	Aug 1, 1993
Maximum peak stage			40.49	Jun 4	49.58	Aug 1, 1993
Instantaneous low flow			56,400	Jan 1	27,800	Dec 12, 1937
Annual runoff (inches)	2.58		4.27		3.78	
10 percent exceeds	239,000		527,000		384,000	
50 percent exceeds	110,000		115,000		154,000	
90 percent exceeds	69,300		67,300		71,200	



07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
OBSERVATION AT 0800
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	-2.49	-0.75	-1.67	-4.39	3.02	2.45	10.33	32.27	34.15	23.72	6.98	1.09
2	-2.69	-0.61	e-2.22	-4.29	1.54	2.32	9.93	31.56	37.00	24.12	4.83	1.42
3	-2.56	-0.49	-2.14	-3.81	2.80	1.95	10.77	30.82	39.34	24.87	4.38	1.48
4	-2.72	-0.81	-2.04	-3.57	2.95	1.68	11.69	31.51	40.42	25.15	5.08	0.57
5	-2.78	e-1.05	-1.36	-3.76	2.19	1.79	12.77	31.57	40.38	25.19	4.60	0.11
6	-2.62	-1.06	-1.51	-3.87	2.17	2.21	12.27	31.41	39.76	25.14	4.64	-0.01
7	-2.50	-1.09	-1.81	-3.79	1.79	0.22	12.97	31.39	38.50	25.04	4.63	0.17
8	-2.34	-0.98	-2.36	-4.01	1.06	1.84	12.71	31.83	36.89	24.63	7.38	0.55
9	-3.01	-0.80	-2.11	-3.69	0.89	2.75	12.48	31.23	35.37	24.15	14.56	0.86
10	-3.62	-0.94	-1.85	-3.03	1.40	4.98	12.72	30.67	34.19	23.55	17.93	0.68
11	-3.59	-1.17	-2.20	-2.52	3.01	15.18	14.69	29.99	33.41	23.08	17.72	0.00
12	-3.52	-1.11	-2.26	-2.97	2.93	22.34	20.18	29.22	32.40	22.70	15.33	-0.26
13	-3.54	-1.12	-2.43	-2.44	4.33	24.64	22.99	28.70	31.72	21.74	12.96	0.11
14	-2.16	-0.72	-2.65	-2.28	5.21	24.32	23.99	27.89	31.11	20.52	11.17	0.52
15	-0.21	0.17	-3.19	-1.95	5.21	23.25	23.14	27.17	30.50	19.38	10.15	0.37
16	1.01	0.65	-3.45	-1.62	4.73	22.33	22.13	26.64	29.79	18.45	8.08	0.12
17	0.51	0.10	-3.46	-1.96	3.79	21.25	23.70	26.31	29.01	17.75	5.79	-0.80
18	0.01	-0.63	-3.36	-2.11	2.91	20.84	24.78	25.87	29.22	16.95	5.46	e-0.24
19	-1.56	-0.73	-2.95	-2.96	3.26	19.89	27.46	25.16	29.43	16.08	5.19	-0.07
20	-1.02	-0.96	-2.04	-2.95	1.31	19.15	30.83	24.89	29.29	15.14	4.49	0.02
21	-0.75	-0.88	-0.84	-2.68	0.58	18.16	32.70	25.42	28.55	14.15	4.88	0.13
22	-0.50	-0.50	-1.75	-2.91	0.03	16.53	34.05	26.26	27.27	13.44	4.67	0.61
23	0.05	-0.47	-2.10	-3.93	-0.24	14.46	34.78	26.54	26.12	12.47	4.18	0.67
24	0.36	-0.55	-2.15	-4.13	-0.59	13.22	34.98	26.11	25.57	10.98	4.49	0.61
25	-0.34	-1.44	-1.88	-4.20	-0.49	12.98	35.23	24.86	24.46	9.82	4.54	0.67
26	-0.13	-1.54	-1.80	-4.06	1.27	11.11	34.91	23.36	23.84	9.48	3.85	0.34
27	0.01	-1.21	-2.79	-3.59	3.18	9.24	33.97	22.06	23.31	9.51	3.47	0.02
28	-0.19	-0.96	-3.57	-3.56	3.04	9.39	33.43	22.40	22.87	7.88	2.71	-0.18
29	-0.11	-0.78	-3.66	-2.86	---	11.08	---	25.00	22.78	7.20	1.97	-0.48
30	-0.18	-1.01	-3.94	-1.57	---	11.80	32.76	27.70	23.20	6.45	0.87	-0.57
31	-0.18	---	-4.37	2.98	---	11.10	---	29.99	---	7.42	1.10	---
Mean	-1.40	-0.78	-2.45	-2.98	2.26	12.08	---	27.93	31.00	17.62	6.71	0.28
Max	1.01	0.65	-0.84	2.98	5.21	24.64	---	32.27	40.42	25.19	17.93	1.48
Min	-3.62	-1.54	-4.37	-4.39	-0.59	0.22	---	22.06	22.78	6.45	0.87	-0.80

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURE: October 1951 to September 1992.

SEDIMENT RECORDS: April 1948 to current year.

WATER-QUALITY RECORDS: October 2004 to September 2007.

REMARKS.--Sediment records good, except estimated days which are fair.

EXTREMES FOR PERIOD OF RECORD.--

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 6,720 mg/L, Feb. 24, 1985; minimum daily mean, 19 mg/L, Jan. 21 and 22, 1967.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 9,830,000 tons, Feb. 24, 1985; minimum daily, 2,800 tons, Jan. 21, 1967.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean 1,330 mg/L, Jun. 1; minimum daily mean 26 mg/L, Jan. 7.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily 2,330,000 tons, Jun. 2; minimum daily 4,230 tons, Jan. 7.

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
[e, estimated; $\times 10^6$, million]

Day	Mean	Mean	Sediment	Mean	Mean	Sediment	Mean	Mean	Sediment
	discharge	concentration	discharge	discharge	concentration	discharge	discharge	concentration	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	67,600	73	13,300	85,600	137	31,700	76,200	67	13,800
2	66,800	88	15,800	86,500	102	23,900	72,600	76	14,800
3	67,300	84	15,300	86,800	114	26,700	73,000	53	10,400
4	66,900	82	14,700	85,100	e98	e22,500	75,400	83	16,800
5	67,300	88	16,100	83,100	76	17,100	78,000	111	23,400
6	67,500	138	25,200	83,100	93	20,800	77,700	75	15,600
7	68,200	120	22,000	83,300	80	18,000	73,800	88	17,500
8	68,900	77	14,200	83,800	112	25,300	71,800	111	21,500
9	64,000	78	13,500	83,700	77	17,300	76,500	e100	e20,600
10	61,400	78	12,900	83,600	86	19,500	75,200	79	16,000
11	61,200	77	12,700	82,100	86	19,000	72,900	74	14,500
12	61,200	90	14,900	81,300	81	17,800	71,700	68	13,200
13	62,600	93	15,700	81,600	121	26,700	70,400	68	13,000
14	74,600	118	23,800	85,800	e97	e22,500	67,800	79	14,400
15	90,800	129	31,600	92,000	87	21,500	65,300	64	11,400
16	99,000	118	31,400	92,700	81	20,200	64,000	59	10,200
17	94,800	117	30,000	87,700	79	18,600	63,700	61	10,400
18	87,600	123	29,100	83,800	78	17,700	64,800	66	11,600
19	81,000	101	22,000	83,300	e89	e20,000	67,600	74	13,500
20	84,200	e102	e23,200	82,500	e99	e22,000	75,700	67	13,700
21	86,600	103	24,100	82,600	81	18,100	80,400	75	16,200
22	87,700	e110	e26,000	84,400	82	18,800	74,700	75	15,100
23	92,900	115	28,900	85,900	66	15,400	72,700	e70	e13,700
24	93,600	114	28,700	82,700	68	15,200	73,000	65	12,800
25	88,900	110	26,400	78,300	67	14,100	74,200	61	12,300
26	91,000	114	28,000	77,600	86	18,100	74,300	77	15,400
27	91,500	139	34,300	80,000	75	16,200	66,300	e65	e11,600
28	89,900	137	33,200	81,800	68	15,100	62,300	51	8,660
29	89,900	150	36,500	82,000	72	16,000	61,700	46	7,690
30	90,000	125	30,300	80,300	70	15,100	59,900	66	10,700
31	89,600	144	34,800	---	---	---	57,900	50	7,830
Total	2,454,500	---	728,600	2,513,000	---	590,900	2,191,500	---	428,280

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
[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	57,400	66	10,300	112,000	221	66,900	111,000	110	32,900
2	58,700	52	8,190	106,000	161	46,100	113,000	94	28,600
3	61,300	42	7,020	116,000	300	93,900	107,000	104	30,000
4	62,200	66	11,100	114,000	269	82,900	105,000	104	29,600
5	61,200	66	10,900	110,000	233	69,100	110,000	80	23,800
6	60,900	63	10,400	109,000	183	53,700	105,000	71	20,200
7	60,700	26	4,230	104,000	153	42,900	96,800	52	13,700
8	60,200	65	10,600	99,800	114	30,700	107,000	76	22,100
9	62,900	65	11,100	98,600	86	22,900	116,000	80	25,000
10	66,900	78	14,000	107,000	88	25,400	160,000	79	34,200
11	68,600	73	13,500	115,000	100	30,900	284,000	267	204,000
12	67,200	73	13,200	115,000	89	27,500	385,000	887	922,000
13	69,900	51	9,540	130,000	111	39,000	419,000	e1,200	e1,360,000
14	71,200	63	12,100	137,000	130	48,300	409,000	870	961,000
15	74,300	48	9,560	139,000	120	45,200	390,000	694	731,000
16	75,400	53	10,800	130,000	104	36,400	372,000	432	434,000
17	73,400	59	11,700	122,000	93	30,800	354,000	409	391,000
18	70,900	43	8,240	116,000	87	27,200	346,000	402	375,000
19	66,700	35	6,340	115,000	88	27,300	330,000	349	311,000
20	66,900	78	14,000	101,000	81	22,000	317,000	325	278,000
21	68,300	77	14,200	95,600	80	20,700	299,000	307	248,000
22	66,200	33	5,850	92,000	68	16,900	273,000	250	184,000
23	60,300	44	7,130	89,300	89	21,600	242,000	208	136,000
24	59,000	38	5,980	87,200	124	29,200	228,000	172	106,000
25	58,900	47	7,460	90,400	64	15,500	223,000	144	86,600
26	60,200	37	6,010	105,000	117	33,200	196,000	160	84,700
27	63,100	30	5,110	118,000	122	39,000	177,000	157	74,900
28	64,600	43	7,460	115,000	125	38,900	185,000	136	68,100
29	69,200	39	7,280	---	---	---	204,000	132	73,000
30	88,300	105	25,100	---	---	---	207,000	147	82,200
31	117,000	94	29,800	---	---	---	198,000	120	64,400
Total	2,092,000	---	328,200	3,088,900	---	1,084,100	7,168,800	---	7,435,000

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
[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	191,000	172	88,800	577,000	156	244,000	623,000	1,330	2,240,000
2	187,000	77	38,800	560,000	164	247,000	693,000	1,250	2,330,000
3	199,000	88	47,200	549,000	141	208,000	742,000	730	1,460,000
4	214,000	76	43,800	563,000	123	187,000	763,000	731	1,510,000
5	223,000	89	53,700	563,000	144	219,000	760,000	637	1,310,000
6	220,000	97	57,500	560,000	122	185,000	741,000	599	1,200,000
7	226,000	69	42,300	566,000	116	178,000	707,000	572	1,090,000
8	222,000	61	36,300	569,000	125	192,000	667,000	626	1,130,000
9	220,000	74	43,800	557,000	175	263,000	632,000	561	957,000
10	227,000	78	48,000	541,000	290	423,000	606,000	443	725,000
11	268,000	151	109,000	526,000	287	407,000	583,000	408	642,000
12	347,000	359	336,000	511,000	241	332,000	564,000	370	564,000
13	392,000	518	548,000	497,000	179	240,000	549,000	344	510,000
14	403,000	531	578,000	481,000	172	223,000	536,000	350	507,000
15	386,000	563	587,000	468,000	127	161,000	521,000	349	491,000
16	376,000	423	429,000	458,000	133	165,000	506,000	305	416,000
17	405,000	460	503,000	449,000	128	155,000	494,000	398	532,000
18	434,000	456	535,000	440,000	132	157,000	497,000	348	467,000
19	489,000	496	655,000	429,000	110	128,000	500,000	451	609,000
20	556,000	659	989,000	421,000	99	113,000	496,000	560	751,000
21	598,000	952	1,540,000	437,000	235	278,000	479,000	537	694,000
22	630,000	1,270	2,170,000	452,000	303	369,000	453,000	377	462,000
23	642,000	991	1,720,000	454,000	246	302,000	432,000	419	489,000
24	651,000	1,200	2,110,000	443,000	298	357,000	419,000	397	449,000
25	652,000	800	1,410,000	418,000	274	309,000	399,000	286	308,000
26	641,000	579	1,000,000	391,000	251	265,000	389,000	257	270,000
27	622,000	440	740,000	372,000	174	175,000	380,000	319	328,000
28	607,000	301	494,000	383,000	201	208,000	372,000	328	330,000
29	600,000	301	487,000	432,000	438	511,000	373,000	231	233,000
30	592,000	208	333,000	481,000	569	739,000	381,000	240	247,000
31	---	---	---	529,000	767	1,100,000	---	---	---
Total	12.42 $\times 10^6$	---	17.77 $\times 10^6$	15.07 $\times 10^6$	---	9,040,000	16.25 $\times 10^6$	---	23.25 $\times 10^6$

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
[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)
July			August			September			
1	390,000	249	263,000	151,000	83	33,800	96,900	44	11,400
2	400,000	204	221,000	125,000	81	27,400	101,000	83	22,500
3	412,000	202	224,000	128,000	93	32,000	98,300	93	24,800
4	416,000	223	251,000	133,000	83	29,800	92,100	88	21,900
5	416,000	237	266,000	129,000	84	29,200	89,000	93	22,400
6	416,000	225	253,000	130,000	78	27,500	88,400	74	17,800
7	412,000	189	210,000	136,000	99	36,400	90,000	74	18,000
8	405,000	184	201,000	173,000	186	86,700	92,900	77	19,300
9	396,000	150	160,000	257,000	572	397,000	94,500	81	20,800
10	386,000	135	140,000	301,000	756	614,000	92,900	74	18,500
11	377,000	132	134,000	291,000	586	460,000	87,100	85	19,900
12	369,000	148	147,000	255,000	400	275,000	85,700	90	20,800
13	352,000	e120	e114,000	218,000	338	199,000	89,500	e90	e21,700
14	330,000	113	101,000	201,000	241	131,000	92,400	e89	e22,200
15	313,000	127	108,000	186,000	173	86,700	91,400	89	22,000
16	300,000	98	79,400	160,000	170	73,500	87,600	83	19,500
17	288,000	120	93,200	139,000	130	48,800	82,400	104	23,100
18	276,000	125	92,800	137,000	117	43,200	86,400	81	19,000
19	263,000	113	80,200	135,000	106	38,600	87,800	81	19,200
20	247,000	107	71,300	131,000	109	38,500	88,600	82	19,700
21	235,000	94	59,500	131,000	93	32,900	90,100	81	19,600
22	223,000	109	65,400	129,000	50	17,500	93,500	80	20,300
23	207,000	111	62,200	124,000	89	29,800	92,900	63	15,900
24	192,000	86	44,600	131,000	95	33,500	92,600	74	18,400
25	181,000	96	47,200	127,000	73	24,900	93,000	68	17,000
26	182,000	104	50,900	122,000	96	31,500	90,400	72	17,600
27	177,000	78	37,200	117,000	76	24,000	87,900	e66	e15,700
28	161,000	73	31,800	110,000	103	30,500	86,500	62	14,600
29	153,000	90	37,300	102,000	93	25,500	86,000	78	18,200
30	148,000	e83	e33,200	95,000	81	20,700	82,700	92	20,400
31	156,000	79	33,400	96,300	73	19,000	---	---	---
Total	9,179,000	---	3,712,600	4,800,300	---	2,997,900	2,710,500	---	582,200

	Total discharge (ft ³ /s)	Total suspended sediment discharge (tons)
Year	79,952,500	67,951,980