Water-Data Report 2012

07381490 (COE) Atchafalaya River at Simmesport, LA

Atchafalaya-Vermilion Basin
Atchafalaya Subbasin

LOCATION.--Lat 30°58′57″, long 91°47′54″ referenced to North American Datum of 1983, Avoyelles Parish, LA, Hydrologic Unit 08080101, located on the right bridge pier of the State Hwy 1 bridge crossing the Atchafalaya River, and 5.4 mi downstream from confluence of Red River and Old River (head of Atchafalaya River).

DRAINAGE AREA.--87570.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 13, 2009 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.00 ft NGVD 29.

COOPERATION.--Gage is operated in cooperation with the USACE New Orleans District.

REMARKS.--Records good except for periods of estimated data which are poor. ‘e’ denotes an estimated value.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 697,000 ft^3/s, May. 23, 24 2011, gage height, 45.06 ft; minimum discharge, 75,800 ft^3/s, Nov. 18, 2010, gage height, 5.21 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 390,000 ft^3/s, Dec. 27, 28, gage height, 30.25 ft; minimum discharge, e39,700 ft^3/s, Aug. 29, gage height, 1.65 ft

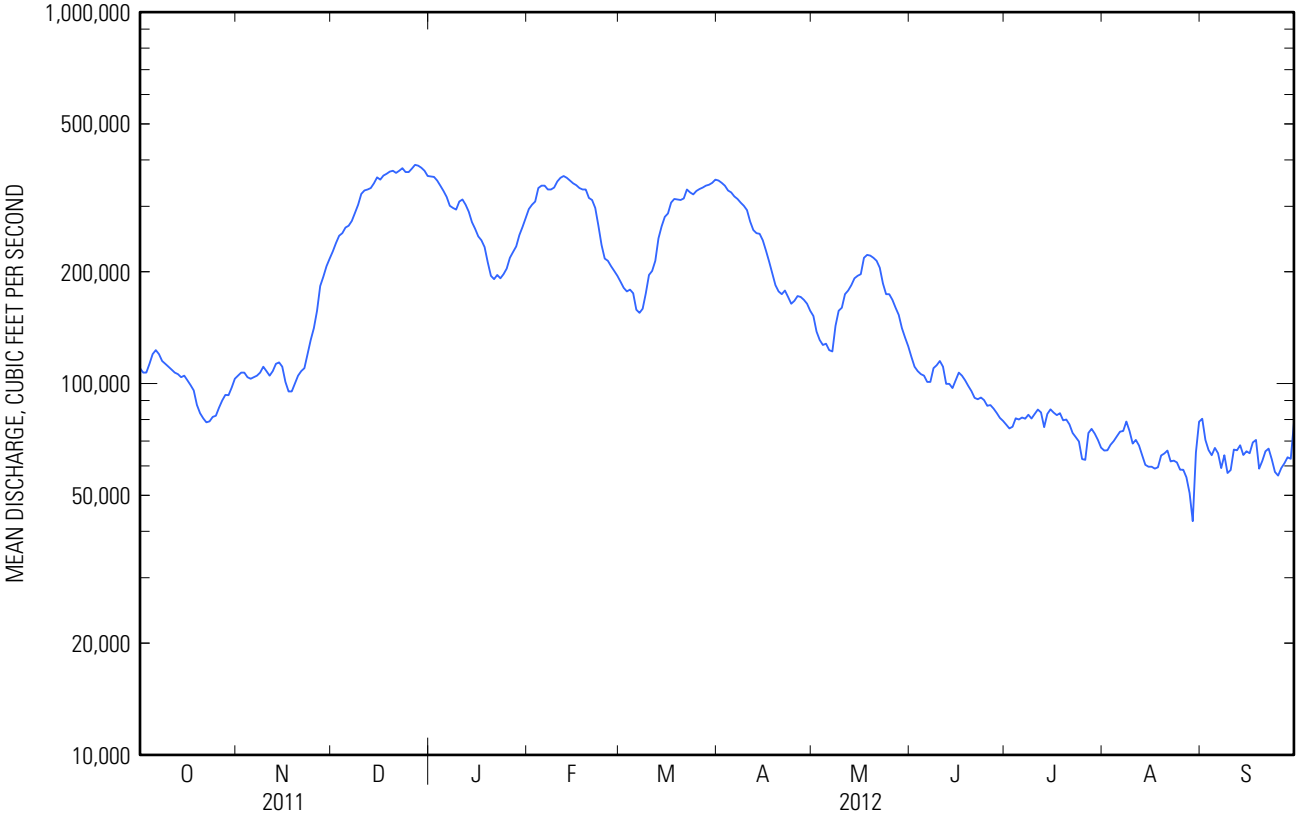
Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 07381490, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/07381490.2012.pdf

07381490 (COE) Atchafalaya River at Simmesport, LA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	110,000	105,000	227,000	361,000	295,000	188,000	352,000	152,000	118,000	77,500	66,000	80,400
2	107,000	107,000	239,000	360,000	303,000	181,000	347,000	138,000	111,000	75,700	66,100	70,500
3	107,000	107,000	250,000	352,000	309,000	177,000	341,000	131,000	108,000	76,500	68,400	66,200
4	113,000	104,000	254,000	341,000	336,000	179,000	331,000	127,000	106,000	80,600	70,000	64,100
5	120,000	103,000	263,000	330,000	341,000	175,000	327,000	128,000	105,000	80,000	72,100	67,100
6	123,000	104,000	266,000	318,000	341,000	158,000	319,000	123,000	101,000	81,000	74,200	64,900
7	120,000	105,000	274,000	301,000	333,000	155,000	314,000	122,000	101,000	80,400	74,500	59,200
8	115,000	107,000	288,000	297,000	333,000	159,000	307,000	143,000	110,000	82,400	79,000	64,100
9	113,000	111,000	303,000	294,000	337,000	175,000	301,000	157,000	112,000	80,500	74,500	57,400
10	111,000	108,000	324,000	309,000	350,000	196,000	293,000	160,000	115,000	82,800	68,900	58,500
11	109,000	105,000	331,000	313,000	358,000	201,000	273,000	174,000	111,000	85,100	70,500	66,400
12	107,000	108,000	333,000	303,000	362,000	214,000	259,000	178,000	99,800	83,600	68,100	66,100
13	106,000	113,000	336,000	290,000	358,000	246,000	254,000	184,000	99,800	76,300	64,100	68,200
14	104,000	114,000	346,000	272,000	352,000	265,000	253,000	192,000	97,200	82,800	60,400	64,200
15	105,000	111,000	359,000	261,000	346,000	281,000	243,000	195,000	102,000	85,200	59,700	65,700
16	102,000	101,000	354,000	249,000	342,000	287,000	228,000	197,000	107,000	83,500	59,700	64,900
17	99,000	95,200	363,000	243,000	336,000	307,000	213,000	218,000	105,000	82,200	59,000	69,400
18	95,800	95,200	367,000	233,000	333,000	314,000	198,000	222,000	e102,000	83,200	59,500	70,500
19	87,600	100,000	372,000	212,000	333,000	313,000	184,000	221,000	e98,500	79,600	64,000	59,000
20	83,200	105,000	374,000	195,000	316,000	312,000	177,000	218,000	e95,400	80,000	64,800	61,900
21	80,600	108,000	369,000	191,000	312,000	315,000	174,000	214,000	e91,500	77,600	66,000	65,700
22	78,600	110,000	374,000	196,000	297,000	333,000	178,000	205,000	e90,700	73,600	61,700	66,800
23	79,100	120,000	380,000	192,000	266,000	327,000	171,000	186,000	e91,700	71,700	62,000	62,500
24	81,300	131,000	371,000	197,000	236,000	323,000	164,000	174,000	e90,200	69,800	61,300	57,800
25	81,900	141,000	371,000	204,000	217,000	330,000	167,000	174,000	e87,100	62,600	58,600	56,500
26	86,100	157,000	379,000	218,000	214,000	334,000	172,000	168,000	e87,500	62,300	58,600	59,200
27	90,000	183,000	388,000	226,000	207,000	337,000	171,000	160,000	85,600	73,600	55,900	61,000
28	93,200	194,000	386,000	234,000	201,000	341,000	168,000	153,000	83,300	75,500	e50,700	63,300
29	93,000	207,000	381,000	251,000	195,000	343,000	164,000	141,000	80,800	73,300	e42,600	62,700
30	97,500	217,000	374,000	264,000	---	347,000	157,000	133,000	79,300	70,500	e65,200	78,200
31	103,000	---	362,000	279,000	---	354,000	---	126,000	---	67,200	78,900	---

07381490 (COE) Atchafalaya River at Simmesport, LA—Continued



07381490 (COE) Atchafalaya River at Simmesport, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.35	7.91	18.67	28.71	24.33	15.26	28.17	12.06	9.07	5.58	4.63	5.83
2	8.03	8.03	19.62	28.62	24.99	14.69	27.93	10.82	8.46	5.43	4.63	5.00
3	8.09	8.05	20.62	28.16	25.37	14.29	27.59	10.24	8.14	5.50	4.82	4.64
4	8.66	7.77	20.95	27.56	27.26	14.50	26.95	9.85	7.99	5.84	4.96	4.46
5	9.22	7.68	21.66	26.87	27.57	14.11	26.64	9.94	7.86	5.80	5.14	4.72
6	9.54	7.79	21.98	26.04	27.57	12.67	26.14	9.52	7.51	5.88	5.31	4.53
7	9.28	7.88	22.62	24.82	27.09	12.37	25.74	9.43	7.49	5.82	5.33	4.04
8	8.79	8.05	23.75	24.46	27.06	12.73	25.26	11.32	8.38	5.99	5.71	4.46
9	8.61	8.46	24.95	24.23	27.31	14.17	24.81	12.57	8.56	5.84	5.33	3.88
10	8.42	8.13	26.47	25.42	28.08	15.98	24.12	12.84	8.75	6.03	4.86	3.98
11	8.21	7.88	26.93	25.69	28.50	16.35	22.55	14.00	8.47	6.21	5.00	4.66
12	8.05	8.17	27.10	24.95	28.74	17.47	21.35	14.43	7.41	6.09	4.80	4.63
13	7.97	8.59	27.30	23.90	28.52	20.23	20.91	14.89	7.42	5.48	4.47	4.81
14	7.82	8.69	27.88	22.44	28.20	21.90	20.85	15.62	7.19	6.03	4.15	4.47
15	7.85	8.39	28.58	21.52	27.83	23.17	20.00	15.91	7.58	6.22	4.09	4.60
16	7.58	7.54	28.29	20.50	27.64	23.65	18.73	16.08	8.11	6.08	4.08	4.53
17	7.33	6.99	28.82	20.04	27.31	25.26	17.40	17.81	7.88	5.97	4.02	4.91
18	7.05	6.99	29.05	19.13	27.10	25.75	16.10	18.24	e7.62	6.06	4.06	5.00
19	6.30	7.44	29.32	17.31	27.09	25.70	14.94	18.11	e7.29	5.76	4.46	4.02
20	5.90	7.91	29.40	15.86	25.90	25.62	14.31	17.83	e7.05	5.79	4.52	4.28
21	5.66	8.15	29.15	15.56	25.61	25.84	14.00	17.48	e6.73	5.59	4.62	4.60
22	5.48	8.31	29.39	15.91	24.47	27.07	14.38	16.71	e6.67	5.26	4.25	4.69
23	5.52	9.21	29.72	15.60	21.95	26.70	13.76	15.06	e6.75	5.10	4.28	4.32
24	5.72	10.21	29.24	16.02	19.37	26.40	13.14	14.08	e6.62	4.94	4.22	3.92
25	5.78	11.10	29.26	16.64	17.78	26.88	13.46	14.02	e6.38	4.33	3.99	3.81
26	6.16	12.59	29.67	17.88	17.49	27.19	13.88	13.49	e6.41	4.31	3.99	4.04
27	6.52	14.80	30.15	18.58	16.88	27.36	13.74	12.82	6.25	5.26	3.75	4.20
28	6.81	15.80	30.06	19.27	16.38	27.59	13.55	12.16	6.07	5.42	3.22	4.40
29	6.79	16.89	29.80	20.67	15.85	27.66	13.19	11.10	5.86	5.23	2.04	4.34
30	7.20	17.78	29.41	21.82	---	27.90	12.59	10.38	5.73	5.00	4.53	5.63
31	7.66	---	28.75	23.06	---	28.28	---	9.76	---	4.72	5.70	---

07381490 (COE) Atchafalaya River at Simmesport, LA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952-53, 1973 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1975, October 1978 to September 1979.
WATER TEMPERATURE: December 1975 to September 1976, October 1977 to September 1984, May 1990 to August 1992.
CHLORIDE: October 1974 to September 1984, May 1990 to August 1992.
SUSPENDED-SEDIMENT DISCHARGE: October 1972 to current year.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Daily suspended-sediment discharge records are computed by the Geological Survey and reviewed by the Corps of Engineers. Corps of Engineers station 03045.

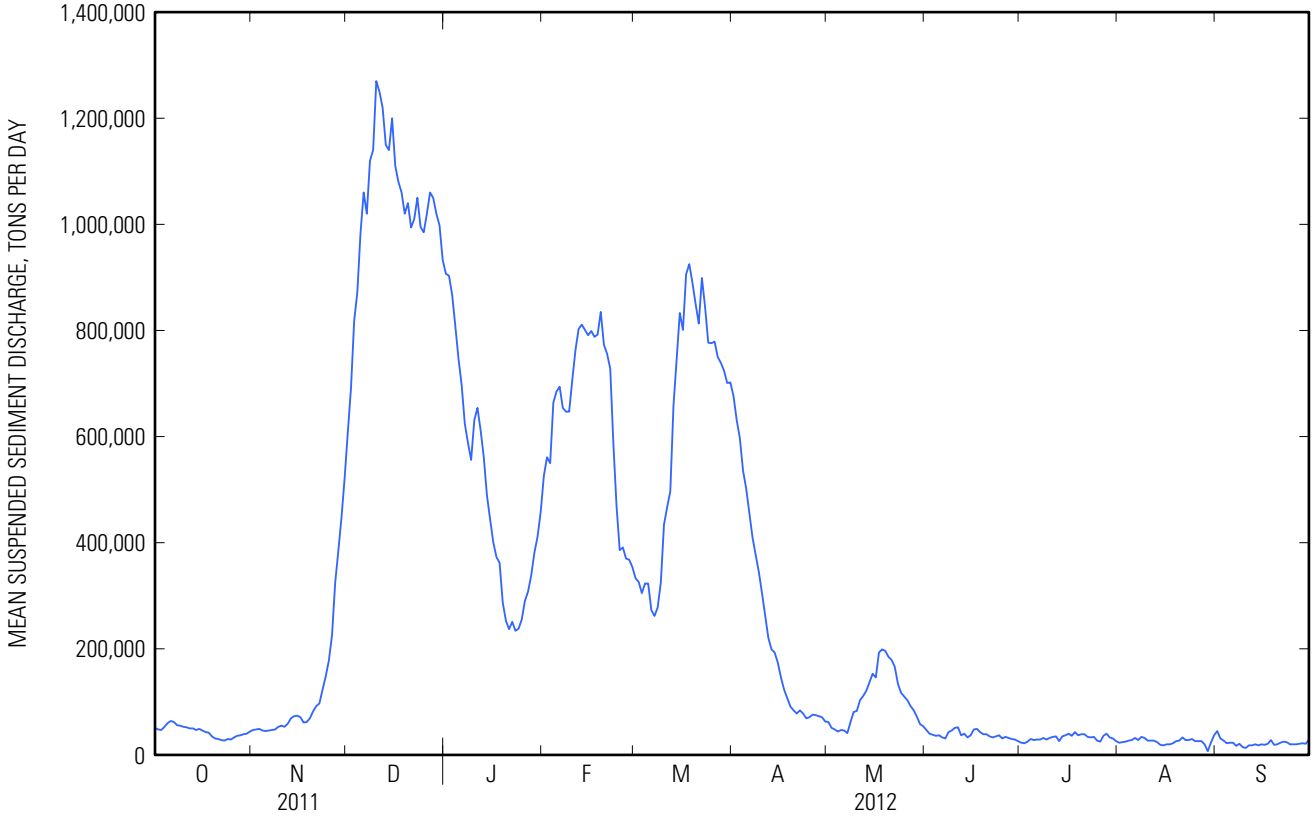
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 627 micromhos Nov. 17, 1978; minimum daily, 179 micromhos Feb. 21, 1979.
WATER TEMPERATURE: Maximum daily, 32.0°C July 23, 1981; minimum daily, 2.0°C Jan. 18-20, Feb. 3, 6, 7, 1978, Jan. 15, 1979,Jan. 14, 1982.
CHLORIDE: Maximum daily, 150 mg/L June 9, 13, 14, 1977; minimum daily, 9.1 mg/L May 14, 1991.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 1,240,000 tons Dec. 15, 1982; minimum daily, 2,000 tons Oct. 3- 5, 1976.

07381490 (COE) Atchafalaya River at Simmesport, LA—Continued

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	51,000	47,000	609,000	907,000	526,000	333,000	676,000	62,000	47,000	23,000	23,000	45,000
2	48,000	48,000	692,000	903,000	561,000	326,000	631,000	51,000	40,000	22,000	24,000	31,000
3	47,000	49,000	818,000	867,000	550,000	305,000	597,000	48,000	38,000	25,000	25,000	27,000
4	53,000	46,000	872,000	808,000	664,000	323,000	536,000	44,000	36,000	30,000	27,000	22,000
5	60,000	45,000	983,000	747,000	685,000	323,000	502,000	47,000	37,000	28,000	28,000	23,000
6	64,000	46,000	1,060,000	697,000	694,000	273,000	456,000	46,000	33,000	29,000	32,000	23,000
7	62,000	47,000	1,020,000	624,000	654,000	262,000	410,000	41,000	31,000	29,000	28,000	17,000
8	56,000	48,000	1,120,000	588,000	647,000	278,000	377,000	62,000	43,000	32,000	34,000	21,000
9	55,000	53,000	1,140,000	556,000	647,000	325,000	345,000	81,000	46,000	29,000	32,000	15,000
10	53,000	55,000	1,270,000	631,000	707,000	434,000	305,000	83,000	51,000	32,000	27,000	13,000
11	52,000	53,000	1,250,000	654,000	763,000	467,000	263,000	103,000	52,000	34,000	27,000	18,000
12	50,000	59,000	1,220,000	612,000	803,000	497,000	221,000	111,000	37,000	35,000	27,000	18,000
13	50,000	69,000	1,150,000	561,000	811,000	658,000	199,000	121,000	40,000	26,000	24,000	20,000
14	47,000	73,000	1,140,000	489,000	801,000	745,000	193,000	137,000	33,000	35,000	19,000	18,000
15	49,000	74,000	1,200,000	444,000	791,000	833,000	174,000	153,000	37,000	37,000	18,000	20,000
16	46,000	71,000	1,110,000	401,000	799,000	801,000	146,000	146,000	48,000	40,000	20,000	19,000
17	43,000	61,000	1,080,000	373,000	788,000	906,000	123,000	193,000	49,000	36,000	20,000	21,000
18	42,000	62,000	1,060,000	362,000	792,000	925,000	107,000	199,000	43,000	43,000	22,000	28,000
19	35,000	69,000	1,020,000	287,000	835,000	890,000	91,000	196,000	39,000	37,000	26,000	19,000
20	31,000	82,000	1,040,000	253,000	773,000	850,000	84,000	185,000	39,000	39,000	27,000	20,000
21	30,000	92,000	994,000	237,000	756,000	813,000	78,000	179,000	35,000	39,000	33,000	23,000
22	28,000	97,000	1,010,000	251,000	728,000	899,000	84,000	166,000	33,000	34,000	28,000	25,000
23	27,000	123,000	1,050,000	234,000	585,000	844,000	78,000	134,000	35,000	33,000	28,000	24,000
24	30,000	148,000	995,000	238,000	468,000	777,000	69,000	117,000	37,000	34,000	30,000	20,000
25	29,000	178,000	985,000	255,000	386,000	776,000	71,000	110,000	31,000	27,000	26,000	20,000
26	33,000	226,000	1,020,000	290,000	391,000	779,000	76,000	103,000	34,000	25,000	26,000	20,000
27	36,000	325,000	1,060,000	308,000	370,000	750,000	75,000	92,000	32,000	36,000	26,000	21,000
28	37,000	385,000	1,050,000	338,000	368,000	739,000	73,000	84,000	30,000	40,000	20,000	22,000
29	39,000	448,000	1,020,000	381,000	354,000	724,000	71,000	72,000	29,000	33,000	7,000	21,000
30	40,000	523,000	998,000	411,000	---	701,000	63,000	58,000	26,000	31,000	23,000	29,000
31	44,000	---	933,000	458,000	---	702,000	---	54,000	---	26,000	37,000	---
Mean	44,100	123,000	1,030,000	489,000	645,000	621,000	239,000	106,000	38,000	32,200	25,600	22,100
Max	64,000	523,000	1,270,000	907,000	835,000	925,000	676,000	199,000	52,000	43,000	37,000	45,000
Min	27,000	45,000	609,000	234,000	354,000	262,000	63,000	41,000	26,000	22,000	7,000	13,000

07381490 (COE) Atchafalaya River at Simmesport, LA—Continued



07381490 (COE) Atchafalaya River at Simmesport, LA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
[ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters]

Date	Sample start time	Discharge, instantaneous, ft^3/s (00061)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)
10-12-2011	**1015**	105,000	100	178	50,500
11-08-2011	**1015**	102,000	100	173	47,800
12-06-2011	**1045**	256,000	97	1,540	1,070,000
12-19-2011	**1015**	377,000	91	999	1,020,000
02-09-2012	**1045**	319,000	93	752	648,000
03-12-2012	**1045**	217,000	98	849	497,000
04-03-2012	**1030**	340,000	93	651	597,000
04-17-2012	**1035**	211,000	93	216	123,000
05-01-2012	**1036**	151,000	97	151	61,600
05-17-2012	**1005**	225,000	89	318	193,000
05-31-2012	**1005**	126,000	100	158	53,800
06-26-2012	**1033**	84,400	100	149	34,000
07-10-2012	**1030**	85,500	100	138	31,800
07-25-2012	**1011**	60,900	100	166	27,300
08-08-2012	**1019**	82,600	100	153	34,000
08-27-2012	**1000**	56,600	100	173	26,400
09-11-2012	**0940**	68,600	100	95	17,600
09-25-2012	**1015**	53,700	100	136	19,700