

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS

Lower Mississippi-Natchez Basin
Lower Mississippi-Natchez Subbasin

LOCATION.--Lat 32°18'54", long 90°54'21" referenced to North American Datum of 1983, in SW ¼ sec.32, T.16 N., R.3 E., Warren County, MS, Hydrologic Unit 08060100, Washington Meridian.

DRAINAGE AREA.--1,144,500 mi² of which 4,000 mi² probably is noncontributing, The 4,000 mi² probably not contribution is in the Great Divide basin in Southern Wyoming.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Discharge: January 1928 through September 1999, January 2008 to September 2008. Prior to July 1931, monthly discharges only, published in WSP 1311. October 1999 to January 2008 in U.S. Army Corps of Engineers publications.

Gage Heights: April 1930 - September 2001 in reports of the U.S. Geological Survey. Since December 1871, referred to canal gages (above 30.0 ft or 9.14 m only, since December 1949), September 1934 to December 1964, referred to bridge gage, in reports of Mississippi River Commission. January 1937 to December 1964 referred to bridge gage, January 1968 to December 1976, referred to gage 1.1 miles upstream and January 1977 to September 1986 referred to gage at mile 435.3 (corrected), in reports of the U.S. Army Corps of Engineers. Since May 1873, in reports of the National Weather Service.

Extreme of Stage, intermittently 1828 to 1871, and since 1871, extremes of discharge for various years 1858 to 1926 and since 1926, annual mean discharges since 1871, and records of daily discharge 1828 to 1964 are available in reports of the Mississippi River Commission. Since January 1947 daily discharge in reports of the U.S. Army Corps of Engineers. Prior to 1968, published as Mississippi River near Vicksburg.

REVISED RECORDS.--WRD Miss. 1975: Drainage area.

GAGE.--Water stage recorder operated by the U.S. Army Corps of Engineers. Datum of gage is 46.22 feet above sea level (U.S. Army Corps of Engineers benchmark) or 46.16 ft. above mean gulf level. The U.S. Geological Survey operated a water-stage recorder over the cavity in the fourth pier from the left bank at a combined highway and railway bridge of Vicksburg Bridge Commission of Warren County, at southern city limits of Vicksburg, 1.5 miles downstream from the Yazoo River diversion canal, and at mile 435.7 (corrected), operated until January 1977. Gages used by Mississippi River Commission: Dec. 10, 1871 to Sept. 30, 1929, nonrecording gage at the mouth of the Yazoo diversion canal, 1.5 mi upstream from the bridge gage, since October 1929, nonrecording gage on Yazoo diversion canal, 1600 ft upstream from the mouth. Gage used by National Weather Service, May 18, 1873 to Oct. 29, 1919, nonrecording gage 0.5 mi upstream from the bridge gage, Oct. 30, 1919 to Nov. 30, 1922, nonrecording gage at mouth of Yazoo Canal, Dec. 1, 1922 to Aug. 31, 1934, nonrecording gage on Yazoo diversion canal, Sept. 1, 1934 to Dec. 31, 1962, nonrecording gage at bridge, Jan. 1, 1963 to Dec. 31, 1967, water-stage recorder on left bank near downstream side of bridge, Jan. 1, 1968 to Dec. 31, 1976, on left bank at site 1.1 mi upstream, and since Jan. 1, 1977 on left bank at downstream side of Interstate 20 bridge. All gages at same datum, but readings differ due to slope of water surface between them.

COOPERATION.--Stage record and streamflow measurements furnished by U.S. Army Corps of Engineers.

REMARKS.--Estimated discharge May 3. Natural flow of stream affected by many reservoirs and navigation dams. U.S. Army Corps of Engineers telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1871, 58.4 ft U.S. Army Corps of Engineers gage on Yazoo diversion canal, approximately 56.0 ft, May 4, 1927 (U.S. Geological survey gage).

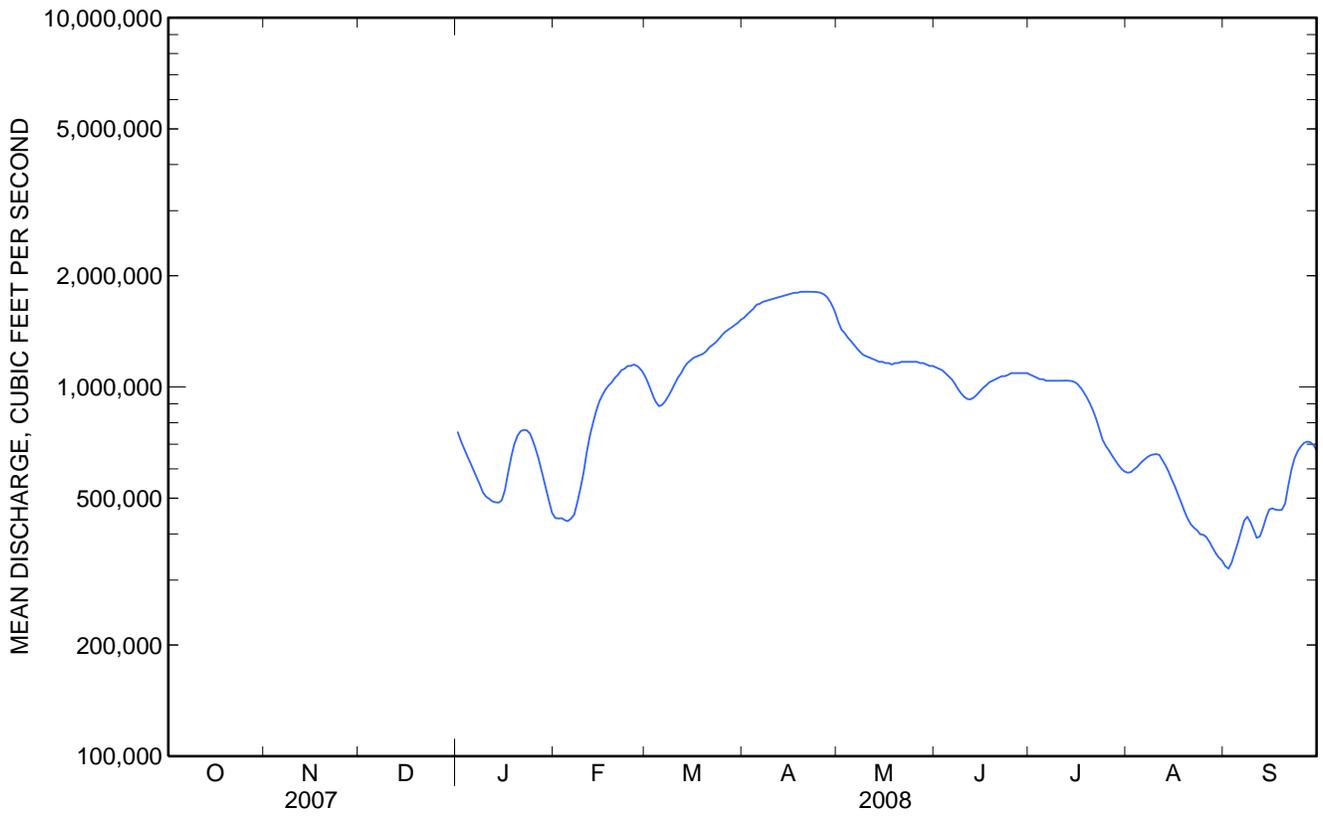
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,820,000 ft³/s, Apr. 20, gage height, 51.00 ft; minimum discharge, 322,000 ft³/s, Sept. 2, gage height, 10.68 ft.

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
 [×10⁶, million]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	754,000	442,000	1,050,000	1,540,000	1,500,000	1,130,000	1,080,000	586,000	327,000
2	---	---	---	715,000	440,000	1,000,000	1,570,000	1,430,000	1,120,000	1,070,000	588,000	322,000
3	---	---	---	682,000	441,000	950,000	1,600,000	1,400,000	1,110,000	1,060,000	598,000	334,000
4	---	---	---	651,000	436,000	911,000	1,630,000	1,360,000	1,090,000	1,050,000	608,000	356,000
5	---	---	---	623,000	433,000	887,000	1,670,000	1,330,000	1,070,000	1,050,000	621,000	379,000
6	---	---	---	595,000	440,000	895,000	1,680,000	1,300,000	1,050,000	1,040,000	633,000	407,000
7	---	---	---	570,000	451,000	916,000	1,700,000	1,270,000	1,020,000	1,040,000	644,000	434,000
8	---	---	---	545,000	485,000	947,000	1,710,000	1,240,000	988,000	1,040,000	652,000	445,000
9	---	---	---	518,000	530,000	980,000	1,720,000	1,220,000	961,000	1,040,000	656,000	430,000
10	---	---	---	505,000	586,000	1,020,000	1,730,000	1,210,000	940,000	1,040,000	658,000	410,000
11	---	---	---	498,000	665,000	1,060,000	1,740,000	1,200,000	927,000	1,040,000	655,000	390,000
12	---	---	---	490,000	739,000	1,090,000	1,750,000	1,190,000	926,000	1,040,000	633,000	394,000
13	---	---	---	487,000	798,000	1,130,000	1,760,000	1,180,000	936,000	1,040,000	613,000	416,000
14	---	---	---	486,000	860,000	1,160,000	1,770,000	1,170,000	953,000	1,040,000	589,000	444,000
15	---	---	---	493,000	914,000	1,180,000	1,780,000	1,170,000	974,000	1,030,000	561,000	466,000
16	---	---	---	526,000	952,000	1,200,000	1,790,000	1,160,000	994,000	1,020,000	537,000	469,000
17	---	---	---	585,000	984,000	1,210,000	1,800,000	1,160,000	1,010,000	993,000	511,000	465,000
18	---	---	---	647,000	1,010,000	1,220,000	1,800,000	1,150,000	1,030,000	967,000	486,000	464,000
19	---	---	---	700,000	1,030,000	1,230,000	1,810,000	1,160,000	1,040,000	937,000	461,000	465,000
20	---	---	---	738,000	1,060,000	1,250,000	1,810,000	1,160,000	1,050,000	901,000	440,000	483,000
21	---	---	---	759,000	1,080,000	1,280,000	1,810,000	1,170,000	1,060,000	861,000	425,000	540,000
22	---	---	---	765,000	1,110,000	1,300,000	1,810,000	1,170,000	1,070,000	815,000	416,000	597,000
23	---	---	---	763,000	1,120,000	1,320,000	1,810,000	1,170,000	1,070,000	765,000	409,000	640,000
24	---	---	---	747,000	1,140,000	1,350,000	1,810,000	1,170,000	1,080,000	719,000	399,000	670,000
25	---	---	---	714,000	1,140,000	1,380,000	1,800,000	1,170,000	1,090,000	693,000	398,000	690,000
26	---	---	---	669,000	1,150,000	1,410,000	1,790,000	1,170,000	1,090,000	673,000	392,000	705,000
27	---	---	---	623,000	1,140,000	1,430,000	1,770,000	1,160,000	1,090,000	653,000	380,000	711,000
28	---	---	---	577,000	1,120,000	1,450,000	1,720,000	1,160,000	1,090,000	633,000	366,000	709,000
29	---	---	---	535,000	1,090,000	1,470,000	1,660,000	1,150,000	1,090,000	615,000	354,000	696,000
30	---	---	---	491,000	---	1,490,000	1,590,000	1,140,000	1,090,000	600,000	345,000	675,000
31	---	---	---	456,000	---	1,520,000	---	1,140,000	---	590,000	338,000	---
Total	---	---	---	18.90×10 ⁶	23.78×10 ⁶	36.68×10 ⁶	51.93×10 ⁶	37.73×10 ⁶	31.13×10 ⁶	28.13×10 ⁶	15.95×10 ⁶	14.93×10 ⁶
Mean	---	---	---	609,900	820,200	1,183,000	1,731,000	1,217,000	1,038,000	907,600	514,600	497,800
Max	---	---	---	765,000	1,150,000	1,520,000	1,810,000	1,500,000	1,130,000	1,080,000	658,000	711,000
Min	---	---	---	456,000	433,000	887,000	1,540,000	1,140,000	926,000	590,000	338,000	322,000
Med	---	---	---	595,000	914,000	1,200,000	1,760,000	1,170,000	1,060,000	1,020,000	537,000	464,000
Cfsm	---	---	---	0.53	0.72	1.04	1.52	1.07	0.91	0.80	0.45	0.44
In.	---	---	---	0.62	0.78	1.20	1.69	1.23	1.02	0.92	0.52	0.49

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WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Time	Gage height, feet (00065)	Instan- taneous dis- charge, ft ³ /s (00061)	Drain- age area, mi ² (81024)	Suspnd.	Sus- pend- ed	Sus- pend- ed
					sediment, sieve diametr percent <62.5um (70331)	sediment concentra- tion mg/L (80154)	sediment dis- charge, tons/d (80155)
Apr							
16...	1020	50.24	1,790,000	1,144,500	40	260	1,260,000
16...	1440	50.47	1,790,000	1,144,500	47	225	1,090,000
19...	0930	50.78	1,810,000	1,144,500	51	187	914,000
19...	1310	50.89	1,810,000	1,144,500	54	186	909,000
22...	1020	50.87	1,810,000	1,144,500	39	268	1,310,000
22...	1600	50.85	1,810,000	1,144,500	60	178	870,000
25...	0830	50.79	1,810,000	1,144,500	49	198	968,000
25...	1330	50.66	1,790,000	1,144,500	57	167	807,000
28...	0900	50.19	1,730,000	1,144,500	58	166	775,000
28...	1300	50.10	1,710,000	1,144,500	55	166	766,000
30...	1100	49.21	1,590,000	1,144,500	63	166	713,000