Water-Data Report 2009

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, nonrecrording 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 some streamflow measurements furnished by U.S. Army Corps of Engineers.

REMARKS.--Estimated discharge Dec. 18,19, Apr. 18-21, May 15,16 and Aug. 7,8. 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, 1,550,000 ft³/s, May 25, gage height, 47.36 ft; minimum discharge, 259,000 ft³/s, Dec. 9, gage height, 5.63 ft.

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[$\times 10^6$, million]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	648,000	294,000	273,000	704,000	457,000	782,000	889,000	1,040,000	1,460,000	842,000	491,000	434,000
2	616,000	295,000	266,000	740,000	442,000	759,000	891,000	1,030,000	1,400,000	814,000	503,000	415,000
3	586,000	306,000	267,000	778,000	439,000	727,000	899,000	1,030,000	1,320,000	785,000	510,000	395,000
4	558,000	321,000	268,000	819,000	464,000	700,000	912,000	1,030,000	1,280,000	754,000	516,000	378,000
5	522,000	334,000	269,000	853,000	512,000	684,000	934,000	1,050,000	1,230,000	719,000	527,000	368,000
6	484,000	338,000	276,000	897,000	575,000	687,000	963,000	1,080,000	1,170,000	682,000	545,000	374,000
7	442,000	338,000	276,000	934,000	636,000	694,000	983,000	1,120,000	1,110,000	647,000	564,000	386,000
8	416,000	330,000	270,000	947,000	675,000	702,000	997,000	1,150,000	1,060,000	607,000	583,000	401,000
9	409,000	323,000	263,000	938,000	676,000	710,000	1,010,000	1,200,000	1,030,000	574,000	595,000	414,000
10	413,000	315,000	270,000	913,000	657,000	704,000	1,010,000	1,240,000	1,010,000	552,000	602,000	415,000
11	408,000	312,000	293,000	879,000	630,000	692,000	1,020,000	1,280,000	978,000	539,000	603,000	407,000
12	392,000	309,000	323,000	851,000	610,000	683,000	1,020,000	1,320,000	947,000	535,000	600,000	394,000
13	378,000	300,000	337,000	825,000	599,000	663,000	1,030,000	1,360,000	916,000	532,000	593,000	385,000
14	366,000	298,000	339,000	804,000	612,000	669,000	1,040,000	1,390,000	885,000	528,000	574,000	384,000
15	351,000	297,000	335,000	791,000	633,000	676,000	1,040,000	1,420,000	856,000	521,000	548,000	384,000
16	338,000	292,000	331,000	788,000	657,000	677,000	1,050,000	1,440,000	834,000	508,000	514,000	381,000
17	333,000	295,000	345,000	790,000	696,000	686,000	1,060,000	1,470,000	821,000	496,000	477,000	373,000
18	336,000	293,000	368,000	803,000	740,000	712,000	1,060,000	1,490,000	813,000	488,000	444,000	377,000
19	335,000	291,000	400,000	808,000	787,000	751,000	1,060,000	1,510,000	812,000	483,000	427,000	393,000
20	326,000	294,000	455,000	804,000	821,000	787,000	1,060,000	1,530,000	822,000	478,000	420,000	410,000
21	315,000	288,000	502,000	795,000	847,000	811,000	1,050,000	1,540,000	835,000	478,000	418,000	422,000
22	306,000	287,000	537,000	765,000	864,000	824,000	1,050,000	1,550,000	849,000	484,000	421,000	424,000
23	302,000	290,000	557,000	725,000	878,000	829,000	1,060,000	1,550,000	863,000	495,000	428,000	425,000
24	305,000	289,000	562,000	673,000	883,000	834,000	1,060,000	1,550,000	870,000	502,000	427,000	427,000
25	303,000	284,000	562,000	618,000	876,000	840,000	1,060,000	1,540,000	873,000	502,000	419,000	436,000
26	304,000	286,000	564,000	562,000	856,000	858,000	1,060,000	1,540,000	876,000	489,000	413,000	459,000
27	308,000	288,000	578,000	508,000	834,000	869,000	1,060,000	1,530,000	879,000	477,000	419,000	482,000
28	308,000	287,000	602,000	460,000	809,000	875,000	1,060,000	1,520,000	882,000	471,000	430,000	493,000
29	308,000	289,000	621,000	433,000	---	879,000	1,060,000	1,520,000	880,000	475,000	445,000	498,000
30	303,000	282,000	649,000	433,000	---	880,000	1,050,000	1,510,000	866,000	481,000	450,000	500,000
31	297,000	---	681,000	452,000	---	882,000	---	1,490,000	---	487,000	446,000	---
Total	12.01×10^6	9,045,000	12.63×10^6	23.09×10^6	19.16×10^6	23.52×10^6	30.49×10^6	42.02×10^6	29.42×10^6	17.42×10^6	15.35×10^6	12.43×10^6
Mean	387,600	301,500	407,700	744,800	684,500	758,900	1,017,000	1,355,000	980,900	562,100	495,200	414,500
Max	648,000	338,000	681,000	947,000	883,000	882,000	1,060,000	1,550,000	1,460,000	842,000	603,000	500,000
Min	297,000	282,000	263,000	433,000	439,000	663,000	889,000	1,030,000	812,000	471,000	413,000	368,000
Cfsm	0.34	0.26	0.36	0.65	0.60	0.67	0.89	1.19	0.86	0.49	0.43	0.36
In.	0.39	0.30	0.41	0.75	0.63	0.77	0.99	1.37	0.96	0.57	0.50	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	130,200	69,250	165,600	232,600	181,500	251,400	250,500	429,000	287,000	195,400	202,500	237,200
Max	405,700	387,300	939,900	1,429,000	820,200	1,183,000	1,731,000	1,355,000	1,038,000	907,600	514,600	497,800
(WY)	(1991)	(1991)	(1992)	(1991)	(2008)	(2008)	(2008)	(2009)	(2008)	(2008)	(2008)	(2008)
Min	269,000	287,000	357,000	320,000	665,000	611,000	679,000	635,000	520,000	453,000	357,000	269,000
(WY)	(2001)	(2001)	(2001)	(2001)	(2006)	(2006)	(1995)	(2001)	(2005)	(2002)	(2001)	(2001)

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS—Continued