Water-Data Report 2013

07285500 YALOBUSHA RIVER AT GRENADA,MS

Yazoo Basin
Yalobusha Subbasin

LOCATION.--Lat 33°47′16″, long 89°48′35″ referenced to North American Datum of 1983, in SE ¼ SW ¼ NE ¼ sec.7, T.22 N., R.5 E., Grenada County, MS, Hydrologic Unit 08030205, Choctaw Meridian, on downstream left bridge seat of U.S. Highway 51 bridge.

DRAINAGE AREA.--1,550 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1989 to current year. July l, 1929, to date, stage data available; February 1929 to date, measured discharge available; and December 1, 1931, to June 30, 1953, daily discharge available in U.S. Army Corps of Engineers records. Prior to October 1, 1992, published as "07285510 Yalobusha River at Grenada, MS."

GAGE.--Water-stage recorder. Datum of gage is 152.03 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to June 23, 1993, water-stage recorder at site 0.5 mi downstream at datum 3.35 ft lower.

REMARKS.--No estimated daily discharges. Records good. Regulated by Grenada Lake Spillway. Satellite telemeter at Station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 14, 1948, reached an elevation of 182.81 ft above sea level at site 2600 ft upstream, discharge 78,900 ft^3/s from records of U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,100 ft^3/s, Jan. 12, gage height, 21.05 ft.

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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	2,460	2,380	2,140	4,860	5,680	4,700	2,910	506	2,120	76	1,010	3,690
2	1,660	2,350	2,090	4,470	5,500	4,610	2,110	1,160	2,540	70	1,670	3,610
3	2,280	2,300	2,030	5,960	5,370	4,520	2,000	2,710	2,290	65	1,660	3,680
4	2,490	2,250	1,970	5,790	5,250	4,140	2,260	3,050	2,140	62	1,650	3,780
5	2,480	2,200	1,090	5,640	5,140	3,470	1,710	1,010	2,760	58	1,660	3,710
6	2,480	2,150	1,020	5,520	5,070	3,400	995	818	3,190	56	1,940	3,630
7	2,450	2,130	1,250	5,390	5,020	3,320	926	647	2,830	57	2,280	3,540
8	2,440	2,080	1,450	5,240	4,950	3,270	896	526	2,780	57	2,270	3,470
9	2,630	2,020	1,420	5,110	4,870	3,210	626	472	2,880	58	2,270	3,530
10	2,780	1,950	1,770	2,190	5,200	3,180	397	444	3,040	56	2,280	3,650
11	3,000	1,890	1,610	2,370	5,200	4,400	5,950	570	2,790	221	2,570	3,560
12	3,330	1,910	1,780	7,900	3,730	3,690	4,480	461	2,720	721	2,330	3,480
13	3,270	1,840	1,980	3,600	5,110	3,390	999	391	2,710	552	2,850	3,480
14	3,230	1,780	1,930	3,150	3,440	3,300	706	361	2,690	87	3,510	3,560
15	3,180	1,740	1,870	1,540	3,220	3,230	604	342	2,680	76	3,460	3,470
16	3,100	1,700	2,390	3,490	3,130	3,190	533	281	2,670	171	3,430	3,480
17	3,050	1,660	2,130	1,580	3,050	3,140	488	5,590	2,760	187	3,420	3,560
18	1,320	1,620	1,050	1,060	3,020	3,130	550	4,420	1,440	195	3,410	3,500
19	1,510	1,580	1,670	739	3,900	3,130	2,800	884	181	194	3,520	3,450
20	3,090	1,540	2,410	619	3,730	3,040	891	545	146	186	3,800	3,130
21	3,040	1,510	2,390	536	4,110	2,970	594	473	129	199	3,800	767
22	2,970	1,480	2,300	473	4,920	2,940	502	2,300	118	187	3,750	685
23	2,870	1,450	2,230	601	4,250	6,880	460	959	112	291	3,880	1,420
24	2,800	1,430	2,190	1,520	4,050	6,510	648	1,390	105	335	4,010	4,180
25	2,760	1,380	3,050	1,880	3,990	2,210	646	1,630	100	196	3,870	2,110
26	2,750	1,360	4,370	2,390	4,730	2,360	464	1,570	94	176	3,780	1,140
27	2,670	1,510	3,300	2,360	4,570	2,180	418	1,550	87	152	3,730	1,210
28	2,590	1,860	3,930	2,990	4,830	2,070	421	1,840	83	140	3,670	1,130
29	2,540	1,800	5,170	4,600	---	2,010	576	2,120	87	126	3,610	1,470
30	2,490	1,960	5,780	7,250	---	2,020	450	2,130	84	115	3,680	2,680
31	2,440	---	5,240	6,380	---	3,050	---	2,130	---	303	3,770	---
Total	82,150	54,810	75,000	107,198	125,030	106,660	38,010	43,280	48,356	5,425	92,540	87,752
Mean	2,650	1,827	2,419	3,458	4,465	3,441	1,267	1,396	1,612	175	2,985	2,925
Max	3,330	2,380	5,780	7,900	5,680	6,880	5,950	5,590	3,190	721	4,010	4,180
Min	1,320	1,360	1,020	473	3,020	2,010	397	281	83	56	1,010	685
Med	2,670	1,820	2,090	3,150	4,780	3,210	647	959	2,220	152	3,430	3,480
Cfsm	1.71	1.18	1.56	2.23	2.88	2.22	0.82	0.90	1.04	0.11	1.93	1.89
In.	1.97	1.32	1.80	2.57	3.00	2.56	0.91	1.04	1.16	0.13	2.22	2.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,526	2,607	3,034	4,010	3,781	2,557	1,811	1,455	1,379	1,365	2,196	2,622
Max	5,075	4,583	6,310	6,387	6,870	4,641	4,228	9,529	5,646	4,904	4,808	5,652
(WY)	(1998)	(2003)	(2010)	(2010)	(2006)	(1995)	(1991)	(1991)	(1991)	(1991)	(1991)	(1991)
Min	601	1,774	259	366	238	517	365	189	248	175	155	298
(WY)	(2008)	(2009)	(2008)	(2000)	(2000)	(2011)	(1992)	(1992)	(2008)	(2013)	(2007)	(2007)

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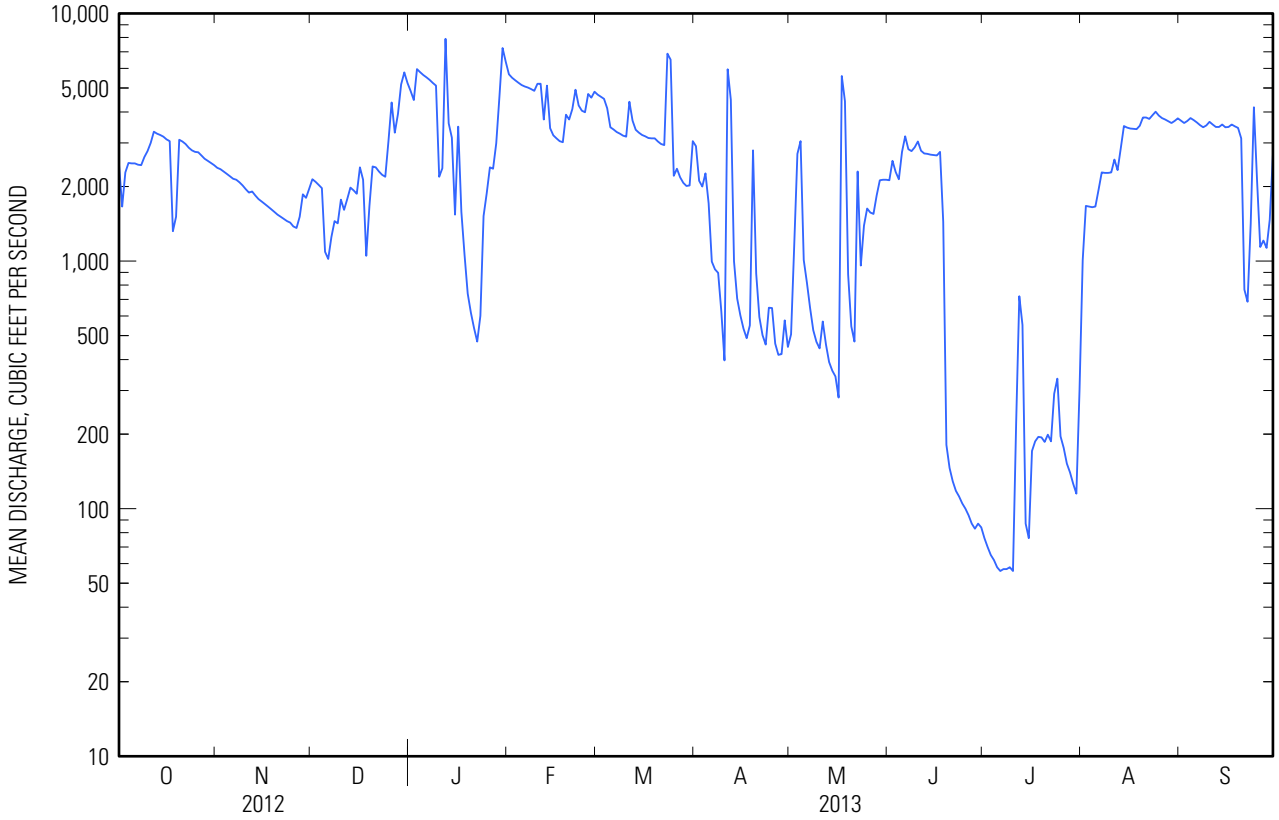
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1991 - 2013	
Annual total	480,218		866,211			
Annual mean	1,312		2,373		2,439	
Highest annual mean					4,441	1991
Lowest annual mean					935	2008
Highest daily mean	5,820	Mar 9	7,900	Jan 12	21,900	Apr 29, 1991
Lowest daily mean	202	Aug 7	56	Jul 6[b]	30	Oct 3, 1990
Annual seven-day minimum	206	Sep 10	58	Jul 4	49	Aug 20, 1995
Maximum peak flow			13,100	Jan 12	23,000	Apr 29, 1991
Maximum peak stage			21.05	Jan 12	[a]27.54	Apr 29, 1991
Annual runoff (cfsm)	0.846		1.53		1.57	
Annual runoff (inches)	11.53		20.79		21.38	
10 percent exceeds	3,010		4,580		5,380	
50 percent exceeds	832		2,280		2,190	
90 percent exceeds	215		198		274	

[a] To present datum.
[b] Also July 10.



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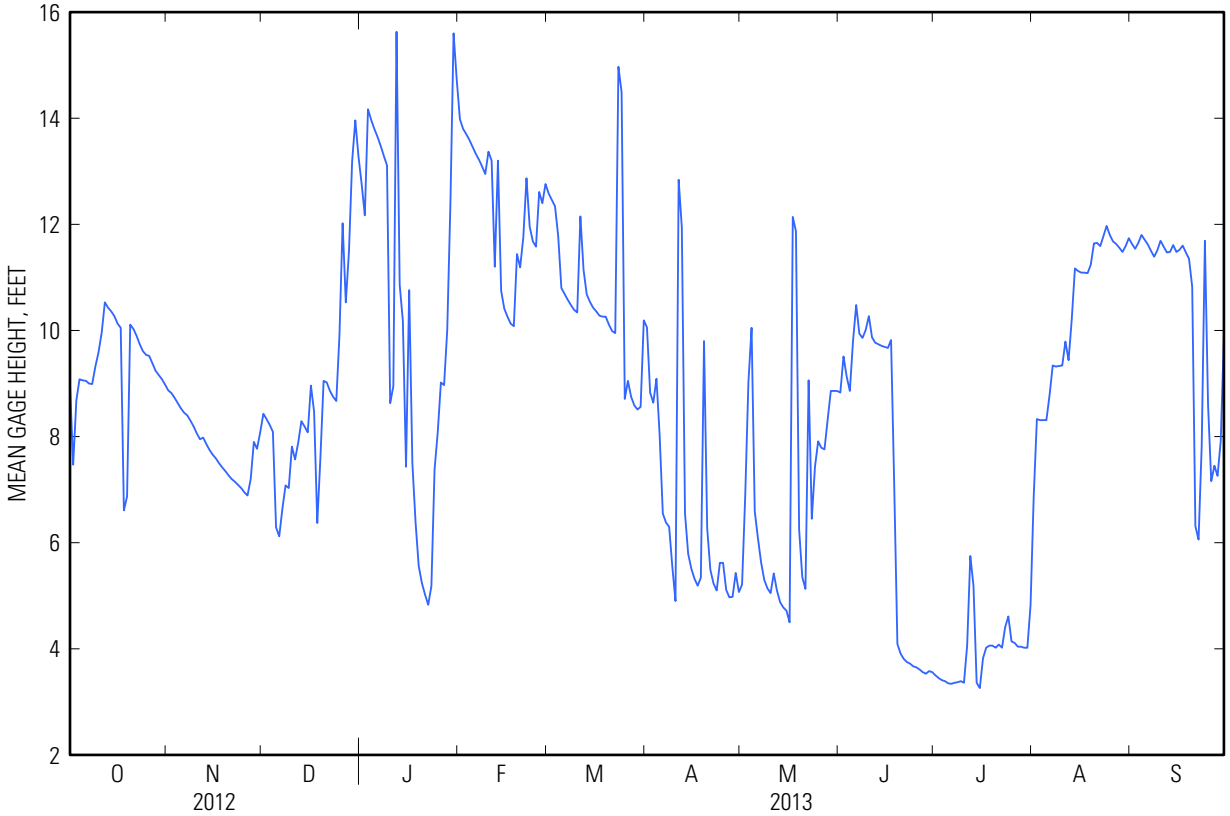
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.97	8.87	8.43	12.76	13.98	12.58	10.06	5.21	8.83	3.50	6.87	11.63
2	7.47	8.82	8.33	12.17	13.80	12.46	8.83	6.89	9.51	3.45	8.33	11.54
3	8.68	8.73	8.22	14.17	13.70	12.34	8.64	9.02	9.13	3.41	8.31	11.65
4	9.08	8.63	8.09	13.97	13.59	11.78	9.09	10.05	8.86	3.39	8.31	11.80
5	9.06	8.53	6.29	13.80	13.46	10.80	8.03	6.59	9.80	3.35	8.31	11.71
6	9.05	8.45	6.12	13.65	13.33	10.69	6.55	6.09	10.48	3.34	8.78	11.62
7	9.00	8.40	6.64	13.48	13.22	10.58	6.38	5.63	9.94	3.36	9.34	11.50
8	8.99	8.30	7.08	13.29	13.09	10.48	6.30	5.30	9.86	3.37	9.32	11.39
9	9.32	8.19	7.03	13.11	12.95	10.39	5.55	5.14	10.01	3.39	9.33	11.51
10	9.59	8.06	7.81	8.63	13.37	10.34	4.90	5.05	10.27	3.36	9.34	11.69
11	9.96	7.95	7.57	8.95	13.20	12.15	12.84	5.42	9.87	4.06	9.79	11.58
12	10.53	7.98	7.89	15.63	11.20	11.14	11.94	5.10	9.77	5.75	9.44	11.47
13	10.43	7.86	8.29	10.86	13.20	10.68	6.55	4.88	9.74	5.19	10.21	11.48
14	10.36	7.75	8.19	10.18	10.75	10.54	5.79	4.78	9.71	3.36	11.17	11.61
15	10.27	7.66	8.08	7.43	10.41	10.43	5.51	4.72	9.69	3.26	11.12	11.48
16	10.13	7.59	8.96	10.76	10.26	10.36	5.32	4.50	9.67	3.82	11.09	11.52
17	10.05	7.50	8.47	7.50	10.13	10.28	5.19	12.14	9.82	4.02	11.09	11.60
18	6.61	7.42	6.37	6.39	10.08	10.26	5.34	11.87	7.07	4.06	11.08	11.47
19	6.87	7.35	7.61	5.56	11.44	10.26	9.80	6.25	4.09	4.06	11.24	11.35
20	10.11	7.27	9.05	5.24	11.19	10.11	6.27	5.35	3.91	4.02	11.64	10.82
21	10.03	7.20	9.02	5.02	11.76	9.99	5.49	5.13	3.81	4.08	11.65	6.31
22	9.90	7.15	8.86	4.83	12.87	9.95	5.23	9.06	3.75	4.02	11.59	6.06
23	9.74	7.09	8.75	5.18	11.96	14.97	5.10	6.45	3.72	4.41	11.78	7.84
24	9.61	7.03	8.67	7.38	11.68	14.49	5.62	7.43	3.67	4.61	11.97	11.69
25	9.54	6.95	9.91	8.08	11.58	8.71	5.62	7.91	3.65	4.14	11.80	8.59
26	9.52	6.89	12.02	9.02	12.61	9.05	5.11	7.79	3.61	4.11	11.68	7.16
27	9.38	7.20	10.53	8.97	12.40	8.75	4.97	7.76	3.56	4.04	11.63	7.45
28	9.24	7.90	11.49	10.01	12.76	8.59	4.98	8.32	3.53	4.04	11.56	7.26
29	9.16	7.77	13.19	12.39	---	8.51	5.43	8.86	3.58	4.02	11.48	7.92
30	9.08	8.08	13.96	15.60	---	8.56	5.07	8.86	3.56	4.02	11.59	9.89
31	8.98	---	13.28	14.72	---	10.19	---	8.86	---	4.82	11.74	---
Mean	9.31	7.82	8.85	10.28	12.28	10.66	6.72	6.98	7.22	3.93	10.41	10.35
Max	10.53	8.87	13.96	15.63	13.98	14.97	12.84	12.14	10.48	5.75	11.97	11.80
Min	6.61	6.89	6.12	4.83	10.08	8.51	4.90	4.50	3.53	3.26	6.87	6.06

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