07289350 BIG BLACK RIVER AT WEST, MS

Big Black-Homochitto Basin
Upper Big Black Subbasin

LOCATION.--Lat 33°11′40″, long 89°46′16″ referenced to North American Datum of 1983, in NW ¼ NE ¼ sec.3, T.15 N., R.5 E., Attala County, MS, Hydrologic Unit 08060201, Choctaw Meridian, near right bank on downstream side of bridge on State Highway 19, 0.2 mi east of West, 5.2 mi upstream from Jordan Creek, and 7.1 mi downstream from Zilpha Creek.

DRAINAGE AREA.--1,027 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1971 to current year. July 1936 to December 1946 and January 1947 to 1971 (gage heights and occasional discharge measurements) in reports of U. S. Army Corps of Engineers, Vicksburg district.

REVISED RECORDS.--WDR MS-89-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 249.74 ft above NGVD of 1929 (levels by U. S. Army Corps of Engineers). Prior to June 10, 1948, nonrecording gage, and June 10, 1948, to Nov. 2, 1967, recorder at site about 2,000 ft downstream at same datum.

REMARKS.--Estimated daily discharges: June 10-15, 20-27. Records good except for estimated daily discharges, which are poor. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 30, 1951, reached a stage of 24.09 ft, discharge, 47,000 ft^3/s,at site about 2,000 ft downstream.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 6	0100	*10,200	*19.17
No other peak greater than base discharge			

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	71	119	135	264	2,050	1,270	1,560	1,680	1,630	54	105	500
2	65	106	120	215	2,330	1,030	2,660	1,200	1,100	51	97	330
3	60	95	107	178	2,480	869	2,810	1,290	545	48	102	443
4	56	85	100	153	4,120	2,180	3,190	2,160	332	46	127	769
5	53	78	102	139	7,780	3,150	6,830	1,730	251	45	87	1,050
6	51	71	101	133	6,680	2,890	9,250	1,700	200	52	73	724
7	50	65	98	130	6,890	2,610	7,000	1,430	172	57	64	550
8	49	62	96	131	6,640	2,610	7,290	857	163	71	58	401
9	50	60	93	160	4,900	2,150	6,280	602	142	114	52	300
10	64	59	92	286	3,280	1,440	4,250	488	e123	94	48	436
11	63	58	96	746	1,880	1,120	2,220	435	e115	155	44	523
12	63	57	104	699	939	934	1,280	369	e106	182	148	497
13	61	55	101	656	728	777	1,070	303	e112	164	483	359
14	57	55	90	570	641	732	836	265	e139	133	292	343
15	53	59	92	403	593	1,310	615	800	e171	98	303	1,330
16	52	99	177	299	534	1,360	486	2,190	198	77	219	1,390
17	54	115	230	252	736	1,170	411	2,010	264	62	157	1,350
18	222	121	210	226	1,370	1,060	370	1,870	210	52	127	986
19	395	119	188	206	1,270	1,160	752	2,030	153	47	103	530
20	255	121	166	190	1,320	1,410	1,080	1,650	e115	42	122	326
21	180	109	240	175	1,120	1,360	1,260	853	e88	40	217	284
22	145	101	248	180	1,550	1,390	1,160	476	e72	39	147	357
23	554	129	258	341	1,830	1,130	1,190	427	e69	63	105	396
24	592	124	276	374	1,600	789	1,070	863	e68	214	162	321
25	494	127	240	407	1,460	576	711	425	e67	268	1,290	238
26	411	147	208	368	1,560	459	1,010	306	e66	199	1,920	183
27	339	219	191	323	1,950	394	2,060	266	e71	170	1,820	148
28	277	194	204	294	1,670	352	2,290	719	66	321	1,820	125
29	222	178	296	330	1,560	328	2,090	1,360	60	203	1,900	114
30	174	156	328	1,040	---	318	1,820	1,280	56	156	1,640	106
31	140	---	309	1,090	---	770	---	1,510	---	122	939	---
Total	5,372	3,143	5,296	10,958	71,461	39,098	74,901	33,544	6,924	3,439	14,771	15,409
Mean	173	105	171	353	2,464	1,261	2,497	1,082	231	111	476	514
Max	592	219	328	1,090	7,780	3,150	9,250	2,190	1,630	321	1,920	1,390
Min	49	55	90	130	534	318	370	265	56	39	44	106
Med	65	104	166	286	1,600	1,130	1,420	863	131	77	147	399
Cfsm	0.17	0.10	0.17	0.34	2.40	1.23	2.43	1.05	0.22	0.11	0.46	0.50
In.	0.19	0.11	0.19	0.40	2.59	1.42	2.71	1.22	0.25	0.12	0.54	0.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	406	827	2,152	3,064	2,919	3,101	2,669	1,567	871	473	224	298
Max	2,890	5,739	11,820	7,339	6,246	8,406	8,664	9,714	5,186	3,284	1,005	2,054
(WY)	(1985)	(1980)	(1983)	(1974)	(2006)	(1980)	(1991)	(1983)	(1989)	(1989)	(1975)	(1979)
Min	16.3	61.3	167	185	372	474	190	89.9	33.6	53.0	22.5	31.1
(WY)	(1988)	(1982)	(2000)	(1986)	(2000)	(2007)	(1986)	(1988)	(1988)	(2000)	(2000)	(1987)

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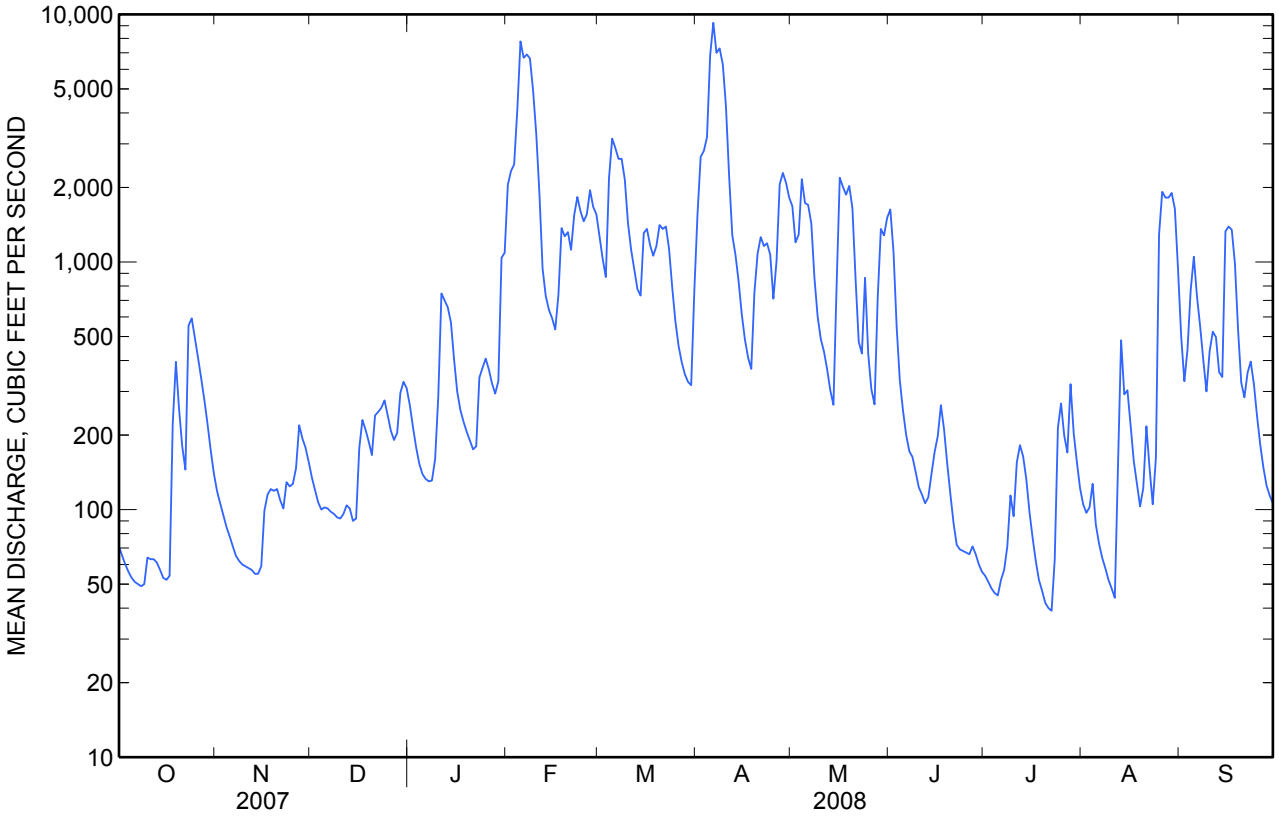
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1971 - 2008	
Annual total	259,009		284,316			
Annual mean	710		777		1,542	
Highest annual mean					3,821	1983
Lowest annual mean					423	1986
Highest daily mean	14,500	Jan 8	9,250	Apr 6	62,400	May 21, 1983
Lowest daily mean	35	Sep 12	39	Jul 22	13	Aug 23, 2000
Annual seven-day minimum	37	Sep 6	49	Jul 17	14	Aug 19, 2000
Maximum peak flow			10,200	Apr 6	71,200	May 21, 1983
Maximum peak stage			19.17	Apr 6	26.08	May 21, 1983
Instantaneous low flow			38	Jul 22	12	Aug 24, 2000
Annual runoff (cfsm)	0.691		0.756		1.50	
Annual runoff (inches)	9.38		10.30		20.40	
10 percent exceeds	1,520		1,890		3,840	
50 percent exceeds	165		280		390	
90 percent exceeds	50		61		68	



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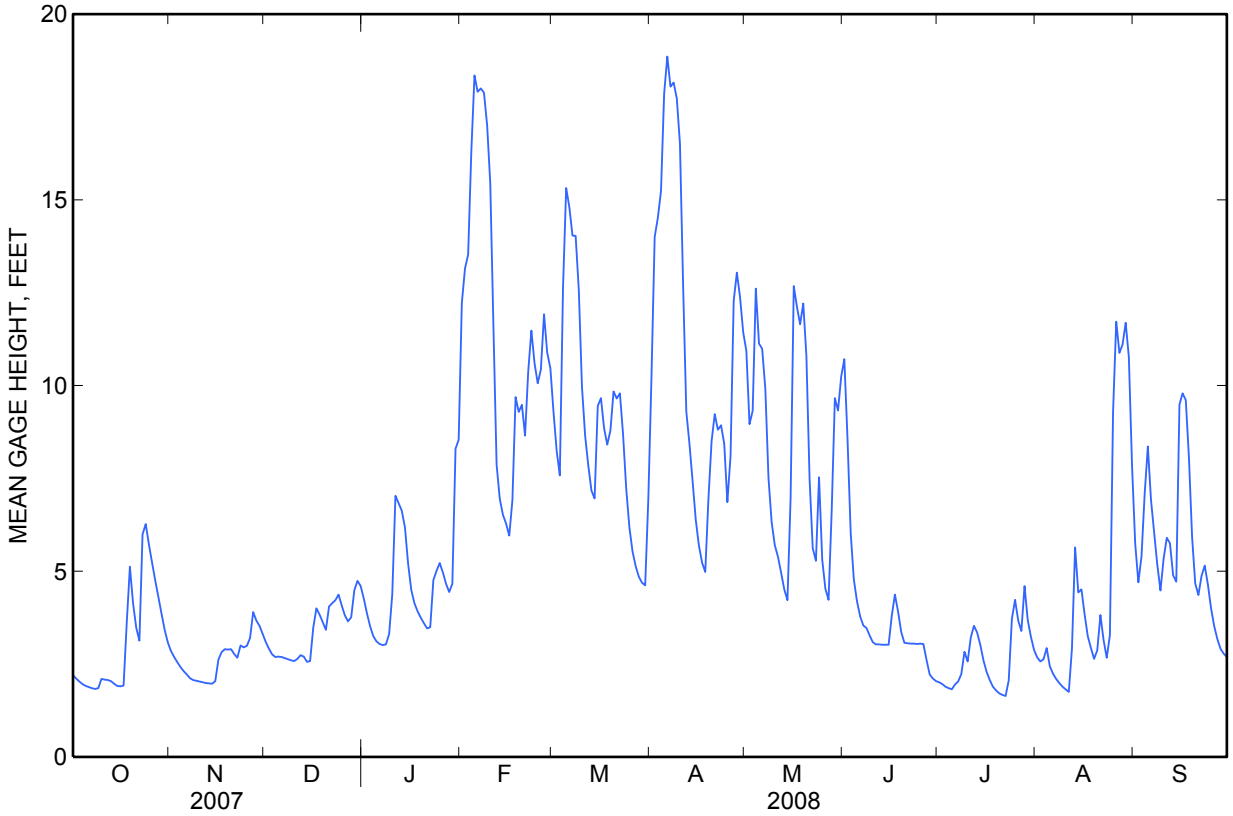
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.20	2.85	3.09	4.26	12.22	9.29	10.27	10.93	10.71	2.01	2.68	5.75
2	2.11	2.69	2.91	3.86	13.15	8.24	14.00	8.96	8.57	1.96	2.57	4.70
3	2.03	2.55	2.76	3.51	13.53	7.58	14.52	9.32	6.04	1.89	2.63	5.40
4	1.96	2.42	2.69	3.25	16.30	12.62	15.24	12.61	4.78	1.85	2.93	7.09
5	1.91	2.31	2.70	3.11	18.35	15.32	17.86	11.13	4.19	1.82	2.44	8.36
6	1.88	2.22	2.69	3.04	17.91	14.81	18.86	10.99	3.78	1.95	2.24	6.92
7	1.85	2.12	2.66	3.01	18.00	14.04	18.05	9.92	3.54	2.03	2.10	6.04
8	1.83	2.07	2.63	3.03	17.89	14.03	18.16	7.51	3.47	2.23	1.99	5.17
9	1.85	2.05	2.60	3.31	17.01	12.57	17.73	6.32	3.27	2.83	1.89	4.48
10	2.10	2.03	2.58	4.38	15.44	9.97	16.51	5.70	3.09	2.57	1.82	5.34
11	2.08	2.01	2.64	7.03	11.56	8.65	12.67	5.39	3.03	3.22	1.75	5.90
12	2.07	1.99	2.74	6.83	7.87	7.85	9.30	4.96	3.03	3.53	2.92	5.75
13	2.04	1.98	2.70	6.63	6.95	7.17	8.43	4.51	3.02	3.35	5.64	4.89
14	1.97	1.97	2.56	6.18	6.52	6.96	7.43	4.22	3.02	3.02	4.43	4.72
15	1.91	2.04	2.58	5.21	6.28	9.45	6.38	6.96	3.02	2.60	4.51	9.49
16	1.90	2.62	3.48	4.50	5.96	9.66	5.69	12.68	3.80	2.29	3.84	9.79
17	1.92	2.82	4.00	4.14	6.91	8.85	5.23	12.12	4.37	2.07	3.25	9.61
18	3.61	2.90	3.83	3.92	9.69	8.41	4.98	11.65	3.91	1.89	2.93	8.07
19	5.12	2.89	3.63	3.75	9.29	8.79	6.94	12.21	3.36	1.79	2.64	5.92
20	4.14	2.90	3.42	3.60	9.48	9.84	8.50	10.79	3.07	1.71	2.87	4.67
21	3.48	2.77	4.05	3.46	8.65	9.65	9.23	7.48	3.06	1.67	3.82	4.36
22	3.13	2.67	4.14	3.49	10.38	9.79	8.81	5.62	3.05	1.64	3.15	4.88
23	5.99	3.00	4.22	4.76	11.48	8.69	8.93	5.28	3.05	2.06	2.67	5.15
24	6.27	2.95	4.37	5.01	10.60	7.22	8.43	7.53	3.04	3.72	3.28	4.64
25	5.73	2.99	4.08	5.22	10.06	6.18	6.86	5.31	3.05	4.23	9.28	4.00
26	5.24	3.20	3.81	4.97	10.43	5.53	8.10	4.53	3.04	3.67	11.72	3.52
27	4.76	3.90	3.65	4.66	11.92	5.13	12.28	4.23	2.61	3.39	10.88	3.17
28	4.31	3.67	3.76	4.44	10.89	4.85	13.04	6.65	2.22	4.60	11.10	2.91
29	3.86	3.53	4.49	4.66	10.47	4.69	12.38	9.66	2.11	3.69	11.69	2.78
30	3.42	3.31	4.74	8.30	---	4.62	11.44	9.33	2.04	3.24	10.76	2.69
31	3.08	---	4.60	8.54	---	6.97	---	10.24	---	2.88	7.86	---
Mean	3.09	2.65	3.38	4.65	11.56	8.95	11.21	8.22	3.74	2.63	4.65	5.54
Max	6.27	3.90	4.74	8.54	18.35	15.32	18.86	12.68	10.71	4.60	11.72	9.79
Min	1.83	1.97	2.56	3.01	5.96	4.62	4.98	4.22	2.04	1.64	1.75	2.69

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