Water-Data Report 2013

02479130 BLACK CREEK NEAR BROOKLYN, MS

Pascagoula Basin
Black Subbasin

LOCATION.--Lat 31°03′07″, long 89°12′15″ referenced to North American Datum of 1983, in NW ¼ NE ¼ sec.16, T.1 N., R.12 W., Forrest County, MS, Hydrologic Unit 03170007, St. Stephens Meridian, near right bank at downstream side of downstream bridge of dual bridges on U.S. Highway 49, 1.1 mi southwest of Brooklyn, and 4.5 mi upstream from Chaney Creek.

DRAINAGE AREA.--355 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1970 to current year. Occasional discharge measurements, water years 1942-45, 1954-57, 1959, 1961, 1964-66.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 128.14 ft above NGVD of 1929 (Mississippi State Highway Department bench mark).

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 18, 1961, reached a stage of 25.70 ft, discharge, 21,500 ft^3/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 1	0000	5,450	15.33
Dec 29	0715	3,710	13.17
Jan 15	1700	5,420	16.21
Feb 13	0845	*7,390	*18.93
Feb 26	0730	3,710	13.16
Apr 14	2315	4,460	14.55
May 2	0615	4,860	15.26

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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	4,360	213	314	1,210	1,840	1,490	595	2,820	296	341	377	204
2	1,990	213	278	1,790	1,300	1,160	525	4,610	302	319	732	200
3	1,390	216	264	1,290	1,050	938	735	3,230	344	307	418	201
4	1,050	219	257	990	801	832	1,060	2,260	345	243	334	229
5	685	243	273	783	686	781	747	1,670	350	443	270	213
6	543	258	558	727	633	733	583	1,220	395	407	651	225
7	455	260	607	780	1,100	686	480	898	534	515	378	220
8	404	251	531	671	1,490	676	423	743	499	402	232	205
9	373	243	494	656	1,110	670	396	647	756	358	194	195
10	349	237	540	1,010	926	652	383	1,580	971	308	230	186
11	332	233	923	2,350	2,250	1,150	802	2,750	452	309	215	208
12	319	243	771	2,960	6,030	1,680	2,310	1,760	375	364	217	204
13	310	298	635	2,590	7,190	1,250	1,340	1,320	311	322	297	160
14	301	288	565	4,460	5,320	989	2,580	1,080	255	361	1,330	158
15	310	281	427	5,260	2,910	815	3,970	738	224	592	1,770	193
16	315	260	350	4,680	1,890	685	2,530	586	228	553	1,150	189
17	305	247	1,130	3,900	1,410	636	1,670	507	227	409	885	173
18	300	238	1,530	2,590	1,130	621	1,230	471	210	366	604	185
19	292	234	1,150	1,800	1,370	691	1,240	438	229	437	471	189
20	268	233	1,130	1,390	1,220	700	1,090	415	340	445	398	169
21	253	233	922	1,110	1,070	612	851	388	390	389	325	305
22	245	230	581	904	1,100	566	682	382	349	351	317	752
23	239	221	521	785	1,420	556	557	537	275	773	313	621
24	233	217	461	713	1,340	570	607	567	252	648	338	642
25	232	213	669	664	2,520	569	1,440	498	308	469	481	899
26	232	215	1,570	628	3,550	541	1,090	398	507	336	561	526
27	228	260	1,140	602	2,630	510	758	343	566	278	326	685
28	225	423	1,090	581	1,890	487	670	314	325	434	255	778
29	221	425	3,360	563	---	477	1,240	292	238	562	240	394
30	215	376	2,260	1,330	---	473	1,520	285	258	562	221	248
31	213	---	1,510	2,430	---	465	---	294	---	528	209	---
Total	17,187	7,721	26,811	52,197	57,176	23,661	34,104	34,041	11,111	13,131	14,739	9,756
Mean	554	257	865	1,684	2,042	763	1,137	1,098	370	424	475	325
Max	4,360	425	3,360	5,260	7,190	1,680	3,970	4,610	971	773	1,770	899
Min	213	213	257	563	633	465	383	285	210	243	194	158
Med	305	240	607	1,110	1,390	676	826	586	333	402	334	206
Cfsm	1.56	0.72	2.44	4.74	5.75	2.15	3.20	3.09	1.04	1.19	1.34	0.92
In.	1.80	0.81	2.81	5.47	5.99	2.48	3.57	3.57	1.16	1.38	1.54	1.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	313	399	720	965	1,053	1,026	901	564	402	379	327	366
Max	1,142	944	3,125	2,417	2,304	2,025	3,968	2,355	1,378	1,737	1,645	1,781
(WY)	(1986)	(1987)	(2010)	(1993)	(1990)	(1980)	(1983)	(1991)	(2001)	(2003)	(2012)	(2012)
Min	43.6	138	184	248	140	243	174	75.0	63.6	54.1	60.6	58.9
(WY)	(2001)	(2000)	(2011)	(1981)	(2000)	(2000)	(2006)	(2000)	(2006)	(2000)	(2000)	(2000)

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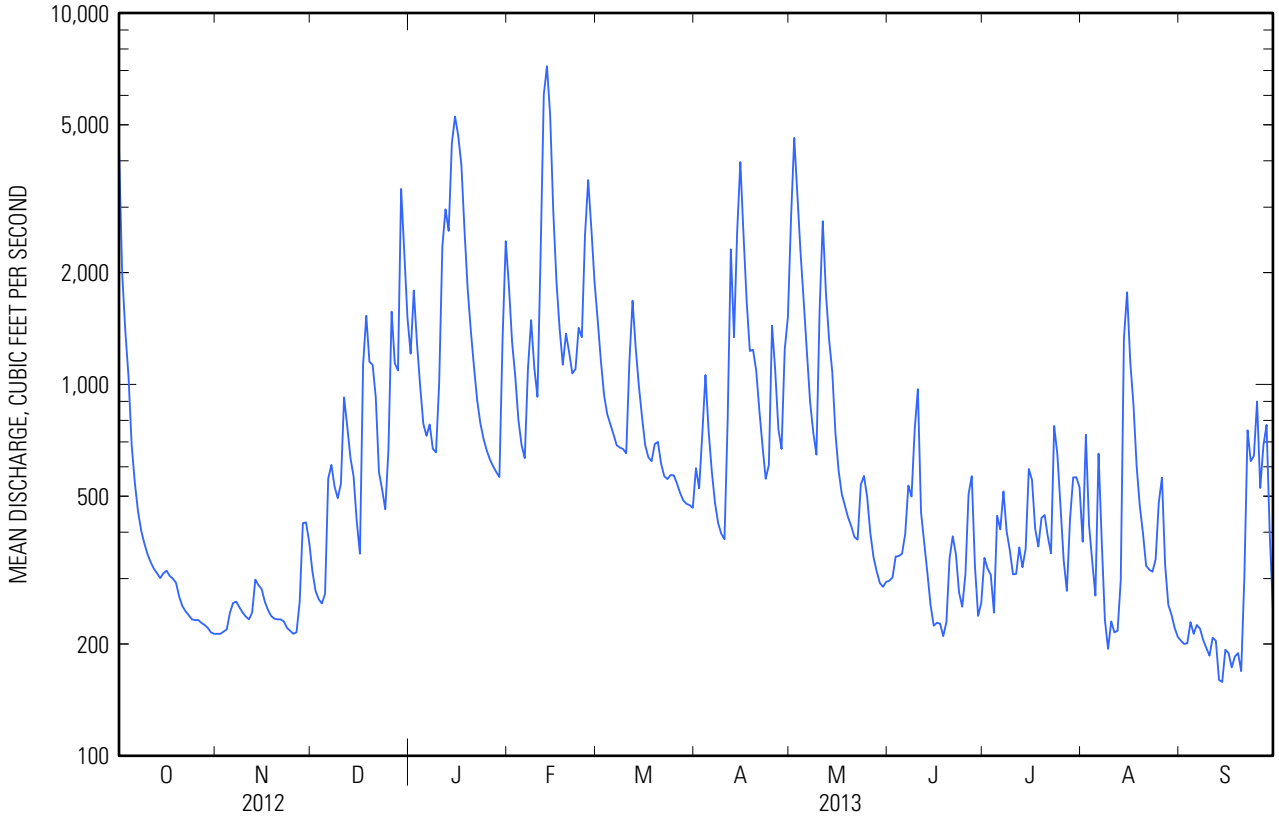
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1971 - 2013	
Annual total	321,247		301,635			
Annual mean	878		826		616	
Highest annual mean					998	1980
Lowest annual mean					159	2000
Highest daily mean	23,300	Aug 31	7,190	Feb 13	32,200	Apr 8, 1983
Lowest daily mean	73	Jun 8	158	Sep 14	32	Aug 25, 2000
Annual seven-day minimum	76	Jun 28	178	Sep 13	36	Sep 30, 2000
Maximum peak flow			7,390	Feb 13	42,500	Apr 7, 1983
Maximum peak stage			18.93	Feb 13	29.96	Apr 7, 1983
Annual runoff (cfsm)	2.47		2.33		1.73	
Annual runoff (inches)	33.66		31.61		23.57	
10 percent exceeds	1,550		1,760		1,330	
50 percent exceeds	336		521		325	
90 percent exceeds	109		225		111	



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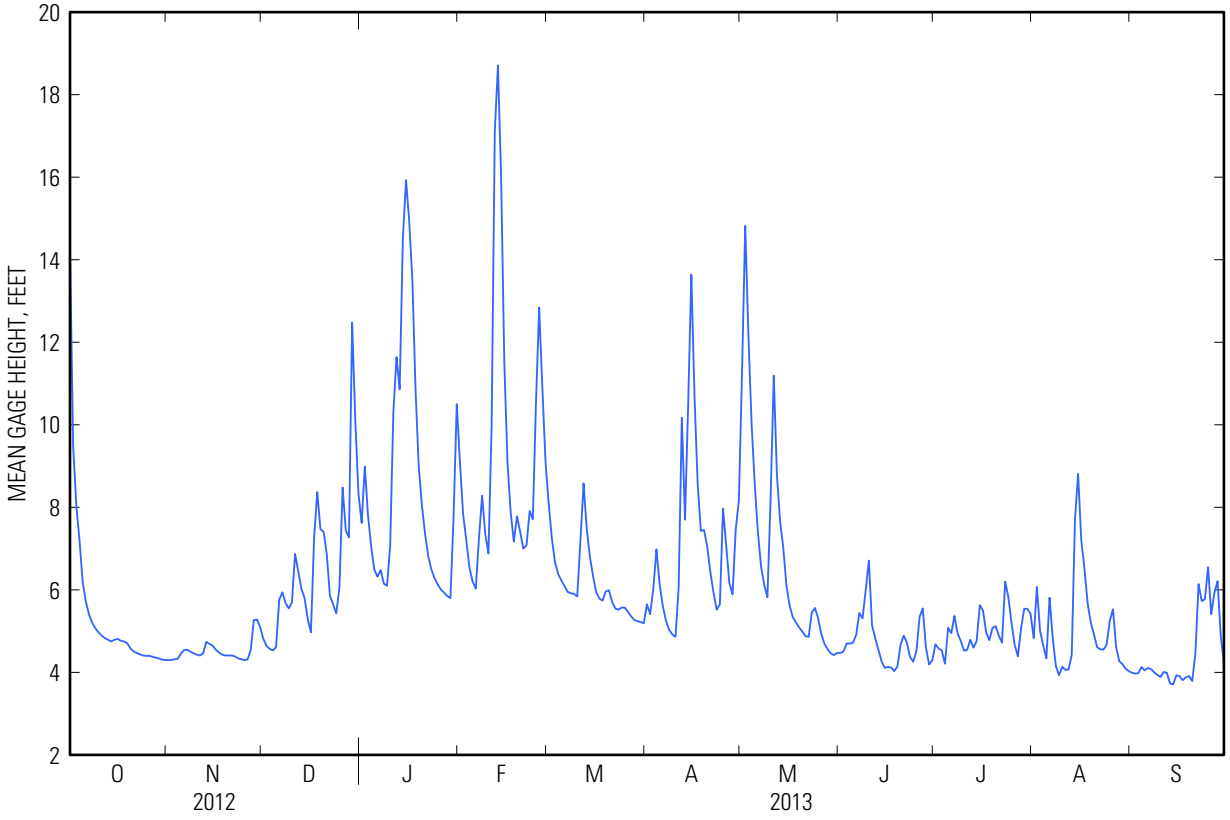
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	14.24	4.30	4.81	7.62	9.10	8.09	5.65	11.31	4.47	4.68	4.83	3.99
2	9.46	4.30	4.64	8.99	7.84	7.25	5.41	14.82	4.51	4.58	6.07	3.97
3	8.03	4.32	4.57	7.81	7.21	6.67	6.02	12.18	4.70	4.53	5.01	3.98
4	7.20	4.33	4.53	7.05	6.54	6.38	6.98	10.04	4.70	4.21	4.65	4.13
5	6.19	4.46	4.61	6.49	6.20	6.23	6.13	8.55	4.72	5.08	4.34	4.05
6	5.72	4.54	5.76	6.32	6.03	6.09	5.61	7.40	4.91	4.95	5.81	4.11
7	5.40	4.55	5.94	6.48	7.25	5.95	5.25	6.56	5.44	5.37	4.83	4.08
8	5.20	4.50	5.68	6.15	8.28	5.92	5.03	6.12	5.31	4.94	4.15	4.00
9	5.07	4.46	5.55	6.10	7.35	5.90	4.92	5.82	5.99	4.76	3.93	3.94
10	4.97	4.43	5.69	7.07	6.88	5.84	4.86	8.20	6.71	4.53	4.14	3.89
11	4.89	4.41	6.87	10.31	9.98	7.17	6.06	11.19	5.14	4.54	4.06	4.01
12	4.83	4.46	6.45	11.64	17.12	8.58	10.17	8.78	4.83	4.79	4.07	3.99
13	4.79	4.74	6.03	10.86	18.71	7.48	7.70	7.66	4.55	4.60	4.43	3.73
14	4.75	4.69	5.80	14.52	15.99	6.80	10.49	7.02	4.27	4.76	7.68	3.71
15	4.79	4.65	5.29	15.93	11.52	6.33	13.64	6.10	4.11	5.63	8.81	3.93
16	4.81	4.55	4.97	14.94	9.09	5.94	10.69	5.62	4.13	5.50	7.21	3.91
17	4.77	4.48	7.26	13.51	7.89	5.79	8.56	5.34	4.12	4.97	6.52	3.81
18	4.75	4.43	8.37	10.85	7.17	5.74	7.43	5.21	4.03	4.78	5.68	3.88
19	4.71	4.41	7.47	9.00	7.78	5.96	7.45	5.09	4.14	5.08	5.21	3.91
20	4.59	4.41	7.41	8.05	7.41	5.99	7.05	4.99	4.67	5.12	4.92	3.79
21	4.51	4.41	6.86	7.36	7.00	5.71	6.43	4.88	4.89	4.89	4.61	4.46
22	4.47	4.39	5.85	6.82	7.08	5.55	5.93	4.86	4.72	4.72	4.56	6.14
23	4.44	4.34	5.65	6.49	7.91	5.52	5.52	5.45	4.37	6.20	4.55	5.73
24	4.41	4.32	5.43	6.28	7.71	5.57	5.65	5.56	4.26	5.83	4.67	5.77
25	4.40	4.30	6.07	6.13	10.56	5.57	7.97	5.31	4.52	5.20	5.25	6.55
26	4.40	4.31	8.48	6.01	12.84	5.47	7.07	4.93	5.34	4.66	5.53	5.41
27	4.38	4.54	7.44	5.93	10.90	5.36	6.16	4.69	5.55	4.39	4.61	5.93
28	4.36	5.27	7.27	5.85	9.10	5.27	5.89	4.56	4.60	5.06	4.27	6.21
29	4.34	5.28	12.48	5.80	---	5.24	7.46	4.46	4.19	5.54	4.20	4.88
30	4.31	5.09	10.10	7.77	---	5.22	8.17	4.42	4.29	5.54	4.09	4.24
31	4.30	---	8.33	10.50	---	5.19	---	4.47	---	5.42	4.03	---
Mean	5.40	4.52	6.51	8.54	9.23	6.12	7.04	6.83	4.74	5.00	5.06	4.47
Max	14.24	5.28	12.48	15.93	18.71	8.58	13.64	14.82	6.71	6.20	8.81	6.55
Min	4.30	4.30	4.53	5.80	6.03	5.19	4.86	4.42	4.03	4.21	3.93	3.71

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