Water-Data Report 2012

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)
Feb 19	0815	7,140	17.55
Mar 23	0630	11,300	21.36
Jul 20	0115	5,130	14.85
Aug 31	1630	*25,700	*26.96

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 02479130, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/02479130.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	287	101	205	355	831	576	672	169	87	75	135	18,300
2	241	97	184	286	1,450	694	584	171	92	76	127	8,810
3	218	97	173	249	976	886	972	204	88	76	121	3,920
4	205	98	167	226	854	1,010	1,940	255	84	75	122	2,360
5	194	102	175	216	1,420	767	2,100	261	80	114	137	2,520
6	185	103	186	212	1,120	684	1,550	277	78	147	216	1,530
7	178	102	306	210	761	641	1,130	238	75	111	386	1,090
8	173	102	333	211	534	468	796	251	73	100	240	839
9	168	107	260	242	417	467	566	215	87	102	183	724
10	163	134	219	297	371	558	475	189	211	150	511	609
11	159	134	194	362	417	535	417	169	398	177	482	523
12	161	119	180	391	381	706	371	194	364	154	287	451
13	171	113	187	375	338	957	335	661	257	290	228	407
14	177	111	181	350	425	714	310	433	188	235	180	377
15	166	111	182	241	546	614	290	319	153	241	154	351
16	155	133	202	208	4,970	495	280	230	130	286	291	366
17	146	200	198	216	4,240	406	484	188	114	249	2,460	690
18	141	170	180	1,440	3,390	364	1,460	163	101	534	1,590	1,380
19	139	155	165	1,180	6,950	336	823	149	103	2,830	752	807
20	137	149	160	1,000	5,780	316	626	138	106	4,030	572	548
21	131	145	163	827	4,110	631	468	124	101	1,640	505	441
22	133	155	184	561	2,610	8,580	362	117	98	790	426	379
23	132	193	343	429	1,710	10,900	306	110	95	613	305	337
24	130	228	311	499	1,260	9,130	276	105	92	542	237	311
25	126	222	275	478	1,030	5,350	247	101	89	477	198	292
26	122	204	491	1,370	746	2,430	231	97	88	329	212	274
27	118	369	2,110	1,860	635	1,550	213	94	85	237	244	265
28	112	404	1,040	1,050	642	1,060	201	91	79	199	316	259
29	107	296	738	936	610	826	191	88	74	176	3,490	277
30	105	235	893	774	---	719	178	85	77	160	12,600	4,000
31	103	---	627	518	---	693	---	81	---	145	23,300	---
Total	4,883	4,889	11,212	17,569	49,524	54,063	18,854	5,967	3,747	15,360	51,007	53,437
Mean	158	163	362	567	1,708	1,744	628	192	125	495	1,645	1,781
Max	287	404	2,110	1,860	6,950	10,900	2,100	661	398	4,030	23,300	18,300
Min	103	97	160	208	338	316	178	81	73	75	121	259
Med	155	134	198	375	854	694	443	169	92	199	287	535
Cfsm	0.44	0.46	1.02	1.60	4.81	4.91	1.77	0.54	0.35	1.40	4.63	5.02
In.	0.51	0.51	1.17	1.84	5.19	5.67	1.98	0.63	0.39	1.61	5.34	5.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	308	402	716	948	1,029	1,033	895	551	403	378	324	367
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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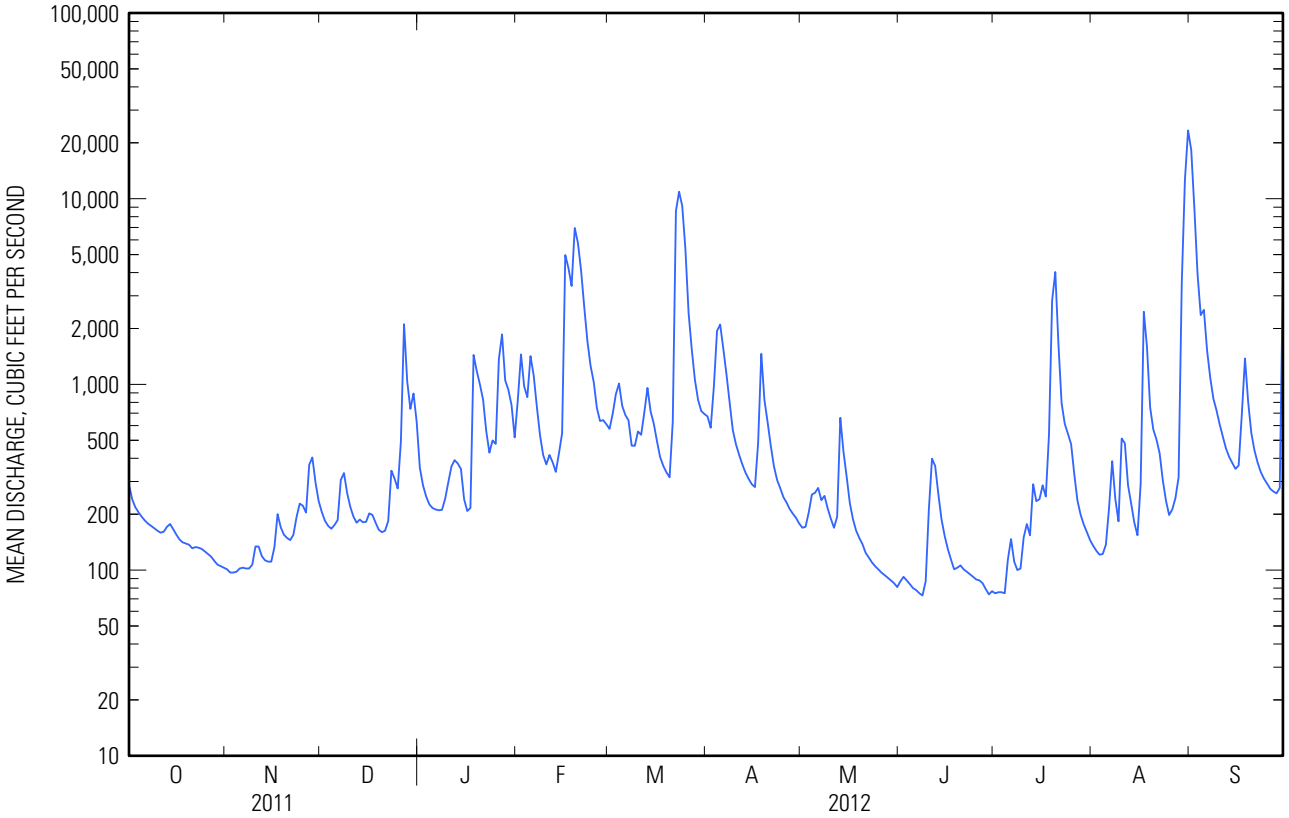
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1971 - 2012	
Annual total	157,130		290,512			
Annual mean	430		794		611	
Highest annual mean					998	1980
Lowest annual mean					159	2000
Highest daily mean	8,170	Mar 10	23,300	Aug 31	32,200	Apr 8, 1983
Lowest daily mean	46	Jul 4	73	Jun 8	32	Aug 25, 2000
Annual seven-day minimum	53	Jun 29	76	Jun 28	36	Sep 30, 2000
Maximum peak flow			25,700	Aug 31	42,500	Apr 7, 1983
Maximum peak stage			26.96	Aug 31	29.96	Apr 7, 1983
Annual runoff (cfsm)	1.21		2.24		1.72	
Annual runoff (inches)	16.47		30.44		23.38	
10 percent exceeds	747		1,440		1,320	
50 percent exceeds	201		260		322	
90 percent exceeds	86		102		110	



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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.64	3.70	4.41	5.02	6.40	5.87	6.18	4.15	3.54	3.42	3.92	24.70
2	4.42	3.67	4.29	4.71	8.02	6.25	5.89	4.16	3.58	3.43	3.86	19.54
3	4.30	3.67	4.22	4.52	7.00	6.73	6.91	4.35	3.55	3.43	3.81	13.00
4	4.23	3.68	4.18	4.40	6.70	7.08	9.05	4.63	3.51	3.43	3.82	9.97
5	4.18	3.71	4.23	4.35	7.96	6.47	9.39	4.66	3.47	3.75	3.93	10.23
6	4.13	3.72	4.30	4.32	7.32	6.22	8.24	4.74	3.45	4.00	4.41	8.20
7	4.09	3.72	4.92	4.31	6.44	6.08	7.36	4.54	3.42	3.73	5.23	7.25
8	4.07	3.71	5.05	4.32	5.72	5.48	6.54	4.61	3.41	3.65	4.55	6.66
9	4.04	3.76	4.71	4.48	5.28	5.47	5.83	4.42	3.53	3.67	4.23	6.34
10	4.02	3.96	4.49	4.76	5.10	5.81	5.51	4.27	4.36	4.01	5.66	5.98
11	4.00	3.96	4.35	5.06	5.29	5.73	5.28	4.14	5.29	4.19	5.60	5.68
12	4.01	3.85	4.26	5.18	5.14	6.22	5.09	4.27	5.14	4.04	4.79	5.42
13	4.08	3.80	4.30	5.11	4.95	6.95	4.94	6.22	4.64	4.80	4.49	5.24
14	4.13	3.79	4.27	5.00	5.30	6.31	4.82	5.42	4.26	4.53	4.21	5.12
15	4.07	3.79	4.28	4.48	5.76	5.99	4.73	4.94	4.04	4.56	4.05	5.01
16	4.01	3.94	4.39	4.30	14.33	5.58	4.68	4.50	3.88	4.79	4.66	5.07
17	3.95	4.38	4.37	4.33	13.32	5.24	5.45	4.26	3.76	4.60	10.16	6.06
18	3.92	4.20	4.26	7.96	11.75	5.06	8.06	4.11	3.66	5.46	8.37	7.88
19	3.91	4.10	4.17	7.45	17.33	4.94	6.63	4.01	3.67	10.76	6.48	6.56
20	3.90	4.06	4.14	7.06	15.79	4.85	6.06	3.93	3.70	13.03	5.93	5.77
21	3.87	4.04	4.15	6.62	13.17	5.58	5.51	3.83	3.65	8.48	5.70	5.38
22	3.89	4.10	4.28	5.81	10.42	18.90	5.10	3.78	3.63	6.59	5.40	5.13
23	3.89	4.34	5.10	5.33	8.57	21.10	4.86	3.73	3.60	6.07	4.88	4.95
24	3.88	4.54	4.96	5.60	7.64	19.61	4.72	3.69	3.58	5.83	4.54	4.83
25	3.86	4.51	4.78	5.52	7.12	15.03	4.59	3.65	3.56	5.59	4.32	4.74
26	3.83	4.40	5.63	7.61	6.41	10.04	4.50	3.62	3.55	4.98	4.40	4.65
27	3.81	5.17	9.41	8.89	6.06	8.25	4.41	3.60	3.52	4.54	4.58	4.61
28	3.77	5.36	7.13	7.17	6.09	7.19	4.34	3.57	3.46	4.32	4.93	4.58
29	3.74	4.88	6.38	6.90	5.98	6.63	4.28	3.54	3.42	4.19	11.62	4.65
30	3.73	4.58	6.80	6.48	---	6.33	4.20	3.52	3.44	4.08	22.01	12.88
31	3.72	---	6.02	5.65	---	6.25	---	3.48	---	3.99	26.37	---
Mean	4.00	4.10	4.91	5.57	8.15	7.85	5.77	4.20	3.78	5.03	6.48	7.54
Max	4.64	5.36	9.41	8.89	17.33	21.10	9.39	6.22	5.29	13.03	26.37	24.70
Min	3.72	3.67	4.14	4.30	4.95	4.85	4.20	3.48	3.41	3.42	3.81	4.58

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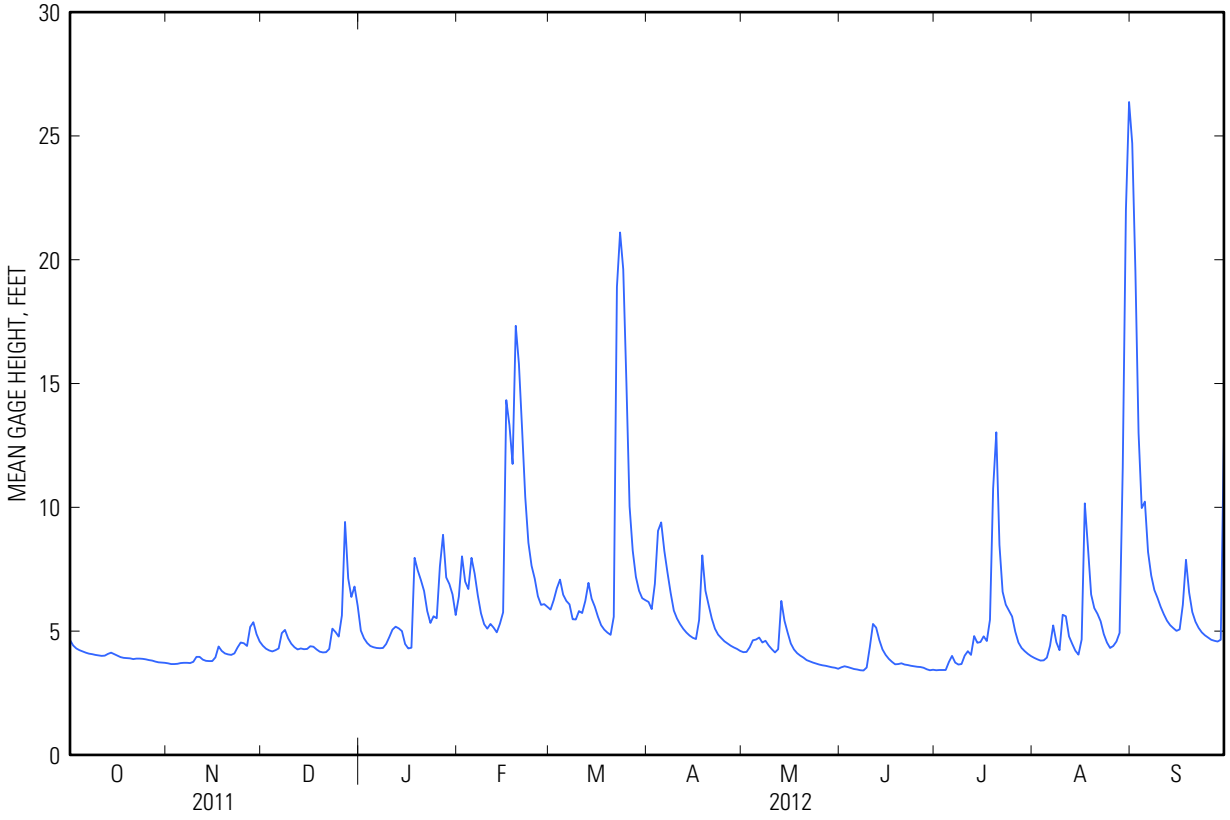

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WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

[NTRU, nephelometric turbidity ratio unit; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data]

Date	Sample start time	Discharge, instantaneous, ft³/s (00061)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Gage height, ft (00065)	Suspended sediment concentration, mg/L (80154)
11-01-2011	**1510**	98	36	14.2	3.0	3.71	1
12-14-2011	**1600**	177	--	--	--	4.27	2