Water-Data Report 2012

02476600 OKATIBBEE CREEK AT ARUNDEL, MS

Pascagoula Basin
Chunky-Okatibbee Subbasin

LOCATION.--Lat 32°17′54″, long 88°45′13″ referenced to North American Datum of 1983, in SE ¼ SE ¼ SW ¼ sec.3, T.5 N., R.15 E., Lauderdale County, MS, Hydrologic Unit 03170001, Choctaw Meridian, on right bank, about 500 ft downstream from Hognose Creek, about 200 ft upstream from bridge on county road, 0.6 mi southeast of Arundel, and at mi l6.3.

DRAINAGE AREA.--342 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1968 to current year. Daily mean gage heights published since October 1971.

GAGE.--Water-stage recorder. Datum of gage is 259.04 ft above NGVD of 1929 (U. S. Army Corps of Engineers bench mark) Prior to Apr. 17, 1975, supplementary water-stage recorder at bridge 400 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Flow from 154 mi^2 above the station, 21.3 mi upstream, regulated by Okatibbee Lake since November 1968. Telemeter, satellite telemeter, and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1961 reached a stage of 22.2 ft at county road bridge 400 ft downstream (from information by U. S. Army Corps of Engineers).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,600 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 26	1945	4,600	15.62
Feb 19	0430	3,180	13.81
Mar 3	0645	4,670	15.69
Mar 23	0815	*4,740	*15.75
Aug 30	1830	4,070	15.07

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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	143	141	230	767	1,040	897	997	91	183	62	78	752
2	133	140	220	799	707	571	955	95	105	63	87	427
3	131	156	220	784	603	3,300	738	130	90	62	94	322
4	128	149	216	774	1,270	1,070	377	108	84	61	95	248
5	126	146	218	625	1,270	716	272	100	122	60	89	254
6	109	143	262	346	811	630	237	183	407	137	117	177
7	67	142	311	174	829	876	200	213	199	80	121	158
8	63	146	258	175	1,050	918	181	196	117	74	100	145
9	61	197	238	434	1,170	1,850	167	247	94	65	96	140
10	63	217	196	815	1,200	1,200	158	138	167	67	118	130
11	64	217	149	898	1,180	642	150	110	180	101	158	122
12	61	217	144	424	1,080	505	143	285	375	387	127	118
13	117	216	113	267	879	429	138	1,330	227	334	116	106
14	142	219	72	205	762	437	132	581	151	193	111	86
15	141	247	70	171	508	402	125	253	118	179	94	82
16	139	388	73	153	1,100	373	123	182	103	182	362	98
17	138	278	71	245	748	462	183	152	92	105	820	194
18	136	247	66	404	1,140	675	430	133	84	104	696	288
19	135	233	62	340	2,650	734	217	120	80	658	972	196
20	140	228	61	353	1,090	721	157	110	76	693	370	123
21	139	227	82	400	688	708	137	106	73	341	237	99
22	139	232	174	469	593	2,510	127	107	73	516	192	89
23	137	245	152	714	732	4,520	119	99	72	264	143	83
24	139	236	89	1,020	957	2,900	113	97	67	159	123	79
25	139	231	595	653	1,040	952	111	114	66	124	113	76
26	140	226	983	2,710	1,010	635	105	109	64	105	107	71
27	141	429	1,880	3,290	995	598	110	90	62	101	103	70
28	145	315	857	1,040	1,090	795	100	86	61	114	112	69
29	144	264	377	746	1,110	960	96	84	61	98	113	68
30	141	244	371	943	---	1,040	92	83	62	91	2,110	185
31	141	---	597	799	---	1,030	---	114	---	80	2,650	---
Total	3,782	6,716	9,407	21,937	29,302	34,056	7,190	5,846	3,715	5,660	10,824	5,055
Mean	122	224	303	708	1,010	1,099	240	189	124	183	349	168
Max	145	429	1,880	3,290	2,650	4,520	997	1,330	407	693	2,650	752
Min	61	140	61	153	508	373	92	83	61	60	78	68
Med	138	226	216	625	1,040	734	146	114	91	105	117	122
Cfsm	0.36	0.65	0.89	2.07	2.95	3.21	0.70	0.55	0.36	0.53	1.02	0.49
In.	0.41	0.73	1.02	2.39	3.19	3.70	0.78	0.64	0.40	0.62	1.18	0.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	176	305	546	760	990	1,043	851	478	269	250	175	185
Max	725	1,121	1,569	2,314	3,160	2,295	2,427	1,977	1,275	1,169	510	820
(WY)	(2003)	(2005)	(1983)	(1998)	(1990)	(1979)	(2003)	(1991)	(1983)	(2003)	(2003)	(2001)
Min	31.2	33.4	61.7	118	86.0	101	121	84.6	42.8	52.3	37.4	47.3
(WY)	(1970)	(1979)	(2011)	(1988)	(2000)	(2007)	(2007)	(1999)	(1970)	(2000)	(2000)	(2000)

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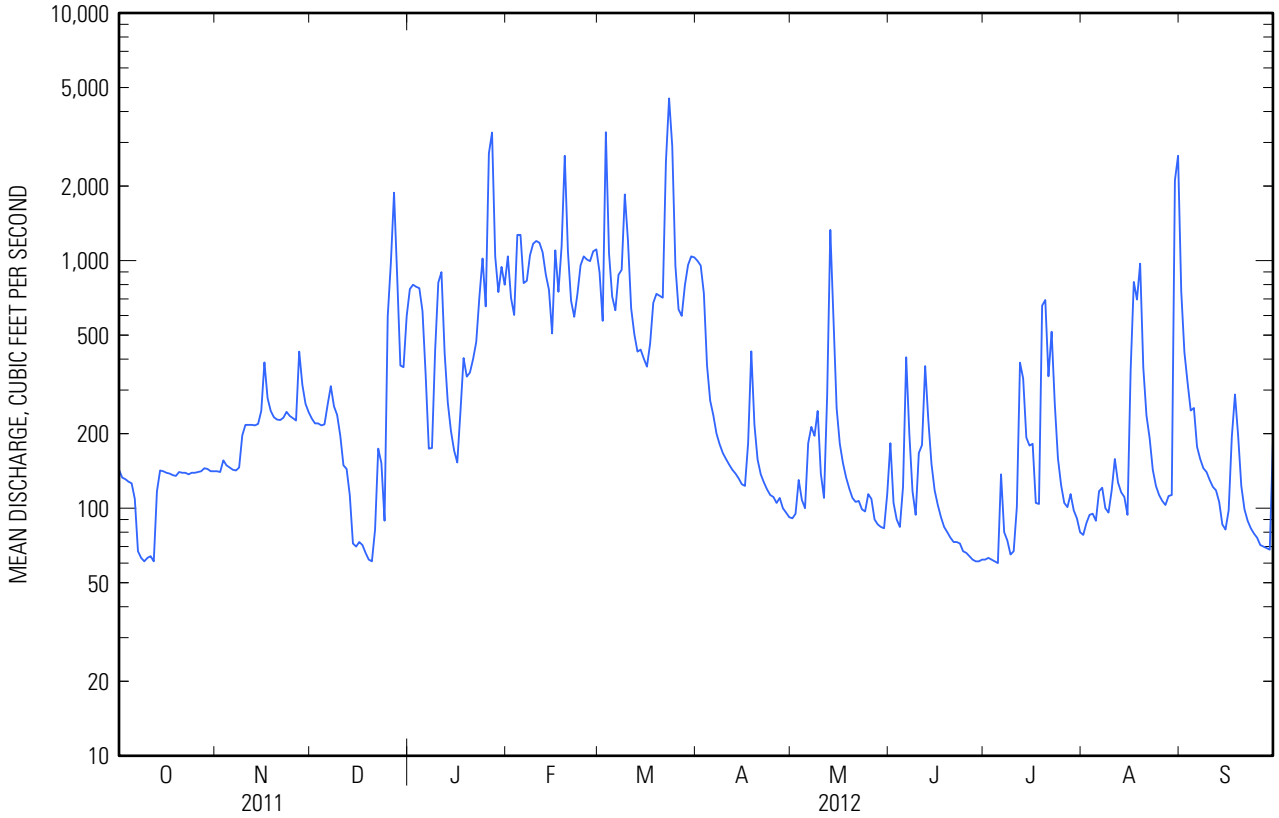
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1969 - 2012	
Annual total	96,043		143,490			
Annual mean	263		392		500	
Highest annual mean					1,031	2003
Lowest annual mean					123	2000
Highest daily mean	4,430	Mar 9	4,520	Mar 23	18,700	Feb 16, 1990
Lowest daily mean	50	Aug 31	60	Jul 5	19	Nov 9, 1981
Annual seven-day minimum	52	Aug 28	62	Jun 29	22	Nov 13, 1981
Maximum peak flow			4,740	Mar 23	22,800	Feb 16, 1990
Maximum peak stage			15.75	Mar 23	22.65	Feb 16, 1990
Annual runoff (cfsm)	0.769		1.15		1.46	
Annual runoff (inches)	10.45		15.61		19.85	
10 percent exceeds	653		975		1,320	
50 percent exceeds	136		174		199	
90 percent exceeds	64		76		59	



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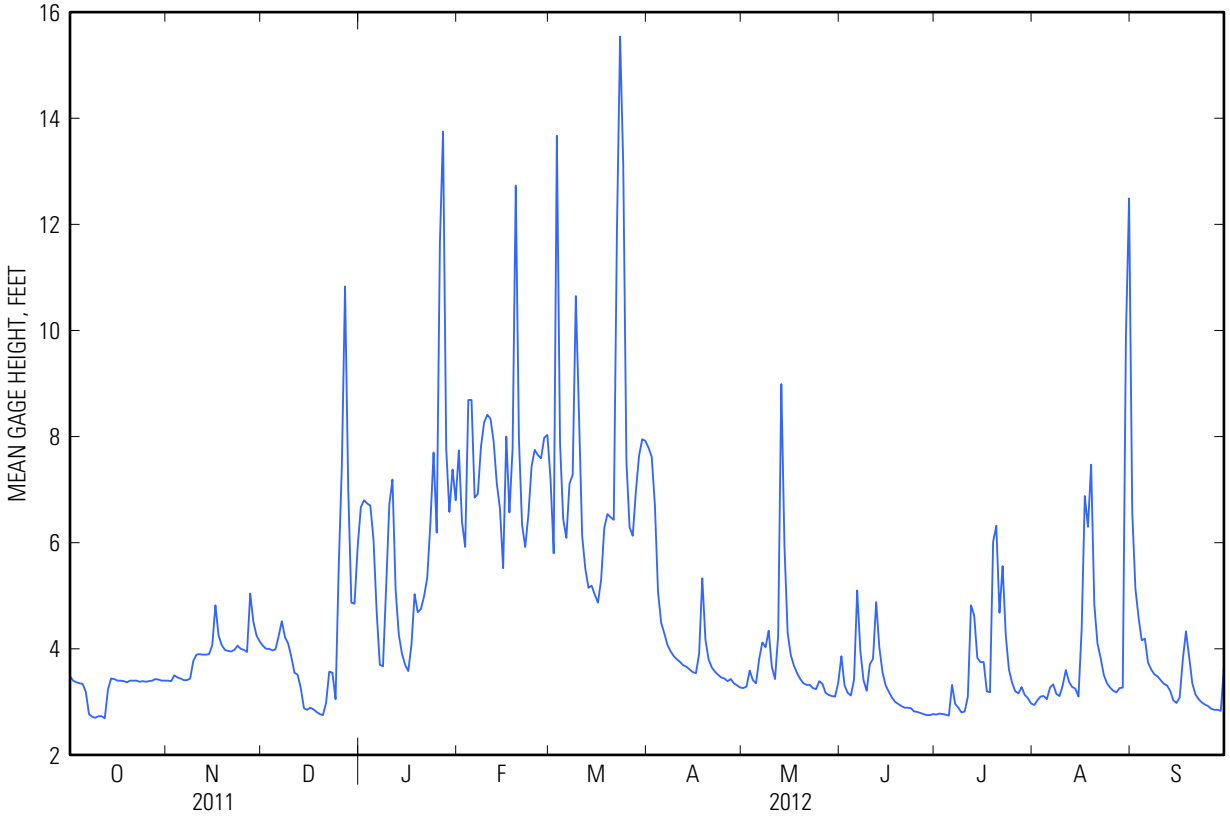
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.48	3.40	4.06	6.67	7.74	7.20	7.79	3.26	3.86	2.76	2.94	6.58
2	3.40	3.39	4.00	6.80	6.39	5.80	7.62	3.29	3.31	2.78	3.03	5.14
3	3.37	3.50	4.00	6.74	5.92	13.67	6.72	3.59	3.17	2.77	3.10	4.59
4	3.35	3.46	3.97	6.70	8.69	7.88	5.07	3.41	3.12	2.76	3.11	4.16
5	3.34	3.44	3.99	6.06	8.69	6.45	4.49	3.35	3.42	2.74	3.05	4.19
6	3.19	3.41	4.24	4.70	6.85	6.09	4.29	3.81	5.10	3.32	3.27	3.74
7	2.77	3.41	4.52	3.70	6.92	7.11	4.07	4.12	3.96	2.96	3.33	3.61
8	2.72	3.44	4.22	3.67	7.81	7.28	3.95	4.03	3.41	2.89	3.15	3.52
9	2.70	3.77	4.10	5.17	8.27	10.65	3.86	4.34	3.21	2.80	3.11	3.48
10	2.73	3.89	3.85	6.72	8.41	8.41	3.80	3.66	3.71	2.82	3.31	3.41
11	2.73	3.90	3.55	7.19	8.34	6.13	3.75	3.43	3.81	3.10	3.60	3.34
12	2.69	3.89	3.51	5.11	7.91	5.51	3.69	4.25	4.88	4.82	3.38	3.31
13	3.23	3.89	3.26	4.27	7.12	5.15	3.66	8.99	4.03	4.63	3.28	3.21
14	3.44	3.90	2.88	3.91	6.64	5.19	3.61	5.92	3.56	3.83	3.25	3.03
15	3.43	4.07	2.85	3.70	5.52	5.02	3.56	4.30	3.31	3.75	3.10	2.98
16	3.40	4.82	2.89	3.58	8.00	4.87	3.54	3.88	3.19	3.75	4.37	3.08
17	3.40	4.25	2.86	4.07	6.57	5.30	3.91	3.68	3.08	3.20	6.88	3.80
18	3.39	4.07	2.81	5.03	7.78	6.28	5.33	3.54	3.00	3.18	6.30	4.33
19	3.37	3.98	2.77	4.69	12.73	6.54	4.17	3.43	2.96	6.02	7.47	3.85
20	3.40	3.96	2.75	4.75	7.96	6.48	3.80	3.35	2.92	6.32	4.84	3.35
21	3.40	3.95	2.98	4.99	6.33	6.43	3.65	3.32	2.89	4.68	4.10	3.14
22	3.40	3.98	3.57	5.34	5.92	11.86	3.57	3.32	2.89	5.56	3.83	3.05
23	3.38	4.06	3.55	6.37	6.53	15.54	3.51	3.26	2.88	4.25	3.51	2.99
24	3.39	4.00	3.05	7.70	7.44	13.12	3.46	3.24	2.82	3.61	3.35	2.95
25	3.38	3.98	5.54	6.19	7.75	7.54	3.44	3.39	2.81	3.36	3.27	2.92
26	3.39	3.94	7.47	11.64	7.65	6.29	3.39	3.34	2.79	3.20	3.21	2.87
27	3.40	5.04	10.83	13.75	7.59	6.13	3.43	3.17	2.77	3.16	3.18	2.85
28	3.43	4.51	7.03	7.77	7.98	6.97	3.35	3.13	2.75	3.28	3.26	2.85
29	3.42	4.25	4.87	6.58	8.03	7.64	3.31	3.11	2.75	3.13	3.27	2.83
30	3.40	4.14	4.85	7.38	---	7.95	3.27	3.10	2.77	3.07	9.88	3.64
31	3.40	---	5.93	6.80	---	7.92	---	3.36	---	2.97	12.49	---
Mean	3.26	3.92	4.22	6.06	7.57	7.56	4.17	3.79	3.30	3.60	4.23	3.56
Max	3.48	5.04	10.83	13.75	12.73	15.54	7.79	8.99	5.10	6.32	12.49	6.58
Min	2.69	3.39	2.75	3.58	5.52	4.87	3.27	3.10	2.75	2.74	2.94	2.83

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