Water-Data Report 2011

02472000 LEAF RIVER NEAR COLLINS, MS

Pascagoula Basin
Upper Leaf Subbasin

LOCATION.--Lat 31°42′25″, long 89°24′25″ referenced to North American Datum of 1983, in NE ¼ SW ¼ NE ¼ sec.33, T.9 N., R.14 W., Covington County, MS, Hydrologic Unit 03170004, St. Stephens Meridian, on right bank at downstream side of bridge on U.S. Highway 84, 2.0 mi downstream from Oakohay Creek, 10.6 mi upstream from Big Creek, 9.5 mi northeast of Collins, and at mile 114.5.

DRAINAGE AREA.--743 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1938 to current year.

REVISED RECORDS.--WSP 2106: 1950(M). WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 197.01 ft above NGVD of 1929. Prior to Dec. 8, 1938, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: October 5,6,26. Records good except for estimated daily discharges, which are poor. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1856 reached a stage of about 33 ft, and the flood in April 1900 reached a stage of 32 ft, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 12	0430	*16,100	*22.42

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 02472000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/02472000.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	83	84	776	1,030	1,230	388	2,950	701	121	73	146	56
2	79	88	1,070	1,600	2,060	307	1,980	387	119	70	125	55
3	76	135	964	1,780	1,990	274	881	308	117	68	109	57
4	73	172	540	1,410	1,690	253	604	283	114	68	98	122
5	e72	131	364	735	1,690	321	603	273	112	116	91	1,530
6	e71	107	294	479	1,980	1,880	647	310	109	154	85	5,280
7	72	99	254	613	1,650	2,730	610	271	108	106	82	7,320
8	71	96	226	544	942	2,440	518	248	108	92	81	5,000
9	70	95	208	415	646	13,200	413	224	113	84	81	1,800
10	71	94	194	371	567	13,800	351	206	128	83	105	629
11	71	93	188	355	545	14,600	311	195	133	81	115	402
12	71	92	215	338	507	14,100	305	185	129	81	103	316
13	75	91	221	320	458	5,250	316	179	133	92	88	264
14	74	93	209	308	407	2,700	293	189	103	140	88	227
15	73	360	199	280	365	1,870	257	184	90	138	123	200
16	71	799	203	257	338	2,460	701	173	86	143	89	178
17	71	575	198	241	310	2,370	878	166	81	119	81	166
18	71	396	182	231	295	1,520	608	162	79	108	76	155
19	72	322	183	230	279	938	386	157	77	105	75	169
20	74	277	167	224	267	744	302	153	74	99	74	304
21	74	244	154	222	255	620	271	150	83	93	74	440
22	73	219	148	228	245	535	313	146	122	93	85	404
23	72	202	141	220	234	480	555	140	133	129	103	286
24	73	197	136	211	219	434	619	136	134	201	95	220
25	74	230	135	265	310	394	360	131	102	283	82	178
26	e73	291	139	493	506	362	281	131	90	376	73	155
27	76	380	142	864	665	343	266	136	84	250	68	145
28	85	373	137	713	509	324	314	130	79	229	65	151
29	98	332	133	468	---	311	1,350	125	77	207	61	148
30	94	364	169	366	---	1,170	1,460	123	75	169	59	132
31	86	---	233	446	---	2,340	---	121	---	164	58	---
Total	2,339	7,031	8,522	16,257	21,159	89,458	19,703	6,423	3,113	4,214	2,738	26,489
Mean	75.5	234	275	524	756	2,886	657	207	104	136	88.3	883
Max	98	799	1,070	1,780	2,060	14,600	2,950	701	134	376	146	7,320
Min	70	84	133	211	219	253	257	121	74	68	58	55
Med	73	200	198	366	506	938	466	173	108	108	85	210
Cfsm	0.10	0.32	0.37	0.71	1.02	3.88	0.88	0.28	0.14	0.18	0.12	1.19
In.	0.12	0.35	0.43	0.81	1.06	4.48	0.99	0.32	0.16	0.21	0.14	1.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	303	573	1,148	1,749	2,339	2,262	1,964	999	427	486	325	323
Max	1,955	3,674	6,085	5,792	7,841	5,649	7,455	4,750	1,609	4,373	980	1,487
(WY)	(2003)	(1994)	(1962)	(1962)	(1990)	(1980)	(1974)	(1991)	(1989)	(1940)	(1960)	(2001)
Min	55.5	84.7	177	233	192	237	200	119	86.1	64.2	57.9	51.1
(WY)	(2001)	(2008)	(1953)	(1956)	(2000)	(2007)	(2007)	(1963)	(2007)	(2000)	(2000)	(2000)

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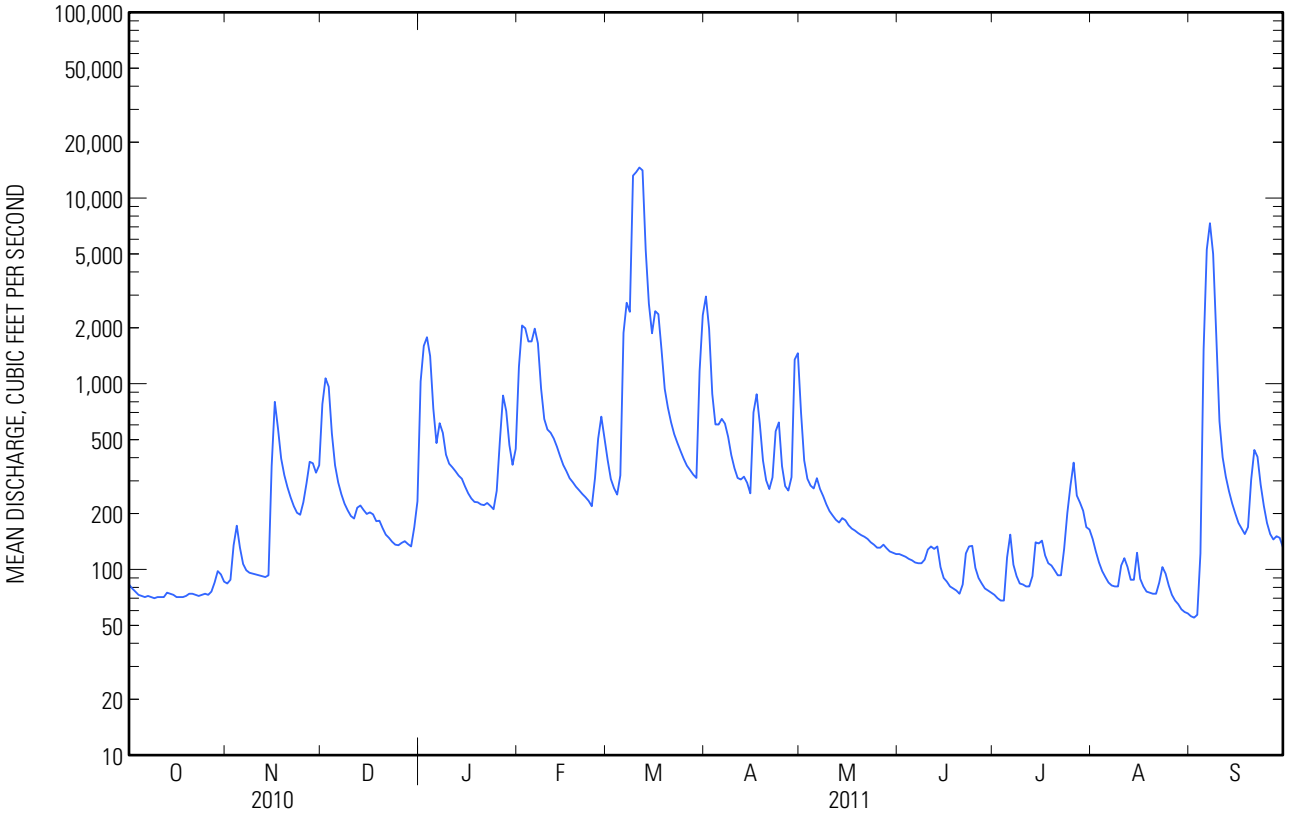
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1938 - 2011	
Annual total	258,176		207,446			
Annual mean	707		568		1,068	
Highest annual mean					2,291	1980
Lowest annual mean					285	2000
Highest daily mean	7,520	Feb 7	14,600	Mar 11	51,000	Apr 14, 1974
Lowest daily mean	70	Oct 9	55	Sep 2	39	Sep 6, 2000
Annual seven-day minimum	71	Oct 6	59	Aug 28	41	Sep 1, 2000
Maximum peak flow			16,100	Mar 12	54,200	Apr 14, 1974
Maximum peak stage			22.42	Mar 12	32.60	Apr 14, 1974
Instantaneous low flow			50	Sep 1	38	Sep 6, 2000
Annual runoff (cfsm)	0.952		0.765		1.44	
Annual runoff (inches)	12.93		10.39		19.53	
10 percent exceeds	1,720		990		2,670	
50 percent exceeds	243		198		353	
90 percent exceeds	92		74		111	



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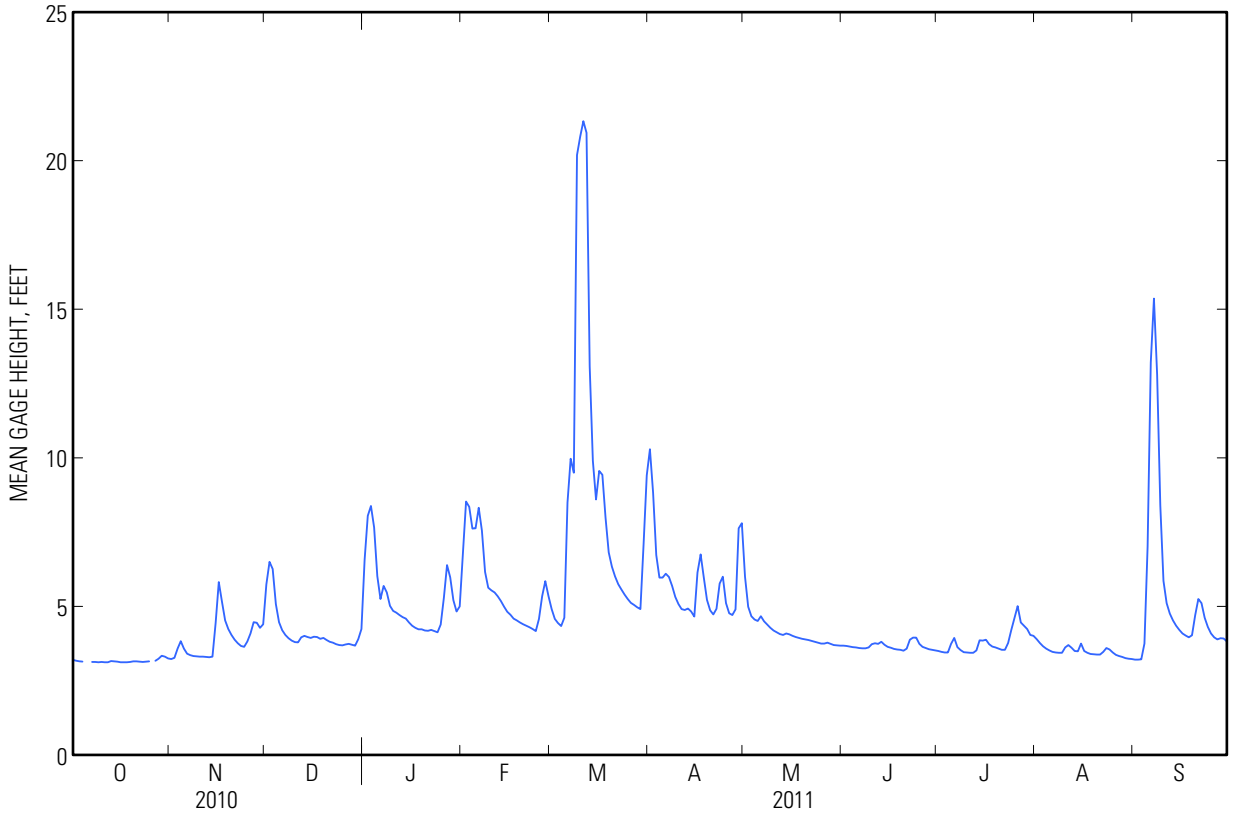
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.20	3.23	5.74	6.57	6.78	4.91	10.29	6.00	3.68	3.50	3.90	3.21
2	3.17	3.27	6.50	8.05	8.53	4.58	8.83	4.99	3.67	3.47	3.77	3.21
3	3.15	3.58	6.26	8.38	8.35	4.44	6.73	4.67	3.65	3.45	3.66	3.22
4	3.14	3.83	5.08	7.66	7.62	4.34	5.97	4.56	3.63	3.45	3.58	3.75
5	---	3.58	4.47	6.02	7.63	4.62	5.97	4.51	3.62	3.74	3.52	7.02
6	---	3.41	4.20	5.25	8.32	8.50	6.10	4.67	3.60	3.94	3.47	13.21
7	3.13	3.36	4.04	5.69	7.55	9.97	5.99	4.50	3.59	3.63	3.45	15.36
8	3.13	3.33	3.93	5.47	6.16	9.50	5.69	4.39	3.59	3.53	3.44	12.80
9	3.12	3.32	3.85	5.02	5.63	20.19	5.32	4.28	3.62	3.46	3.44	8.40
10	3.13	3.31	3.80	4.85	5.54	20.81	5.08	4.19	3.73	3.45	3.62	5.86
11	3.12	3.31	3.79	4.79	5.47	21.33	4.91	4.13	3.76	3.44	3.70	5.11
12	3.12	3.30	3.96	4.71	5.34	20.94	4.88	4.07	3.74	3.44	3.61	4.76
13	3.16	3.29	4.01	4.64	5.18	13.08	4.93	4.04	3.81	3.52	3.50	4.53
14	3.15	3.31	3.97	4.59	4.99	9.90	4.83	4.09	3.71	3.86	3.49	4.35
15	3.14	4.44	3.94	4.46	4.82	8.60	4.66	4.06	3.64	3.85	3.75	4.21
16	3.12	5.82	3.98	4.35	4.72	9.56	6.14	4.01	3.61	3.88	3.50	4.09
17	3.12	5.16	3.97	4.28	4.59	9.43	6.75	3.97	3.57	3.73	3.44	4.02
18	3.12	4.53	3.91	4.23	4.53	7.99	5.97	3.94	3.55	3.65	3.40	3.96
19	3.13	4.24	3.94	4.23	4.46	6.82	5.22	3.91	3.54	3.62	3.39	4.03
20	3.15	4.04	3.87	4.19	4.40	6.34	4.87	3.89	3.51	3.58	3.38	4.70
21	3.15	3.88	3.81	4.18	4.35	6.01	4.73	3.87	3.58	3.54	3.38	5.25
22	3.14	3.76	3.78	4.21	4.30	5.75	4.92	3.84	3.88	3.54	3.47	5.11
23	3.13	3.67	3.73	4.17	4.24	5.57	5.77	3.81	3.95	3.77	3.60	4.62
24	3.14	3.64	3.70	4.13	4.17	5.40	6.00	3.78	3.95	4.21	3.55	4.31
25	3.15	3.82	3.69	4.39	4.58	5.25	5.11	3.75	3.74	4.61	3.45	4.09
26	---	4.09	3.72	5.29	5.34	5.12	4.77	3.75	3.64	5.01	3.37	3.96
27	3.17	4.47	3.74	6.39	5.85	5.05	4.71	3.78	3.60	4.46	3.33	3.89
28	3.24	4.45	3.71	5.98	5.35	4.97	4.90	3.74	3.56	4.35	3.30	3.93
29	3.34	4.28	3.68	5.21	---	4.91	7.63	3.70	3.54	4.24	3.26	3.92
30	3.31	4.40	3.90	4.83	---	7.09	7.80	3.69	3.52	4.04	3.24	3.82
31	3.25	---	4.24	5.00	---	9.41	---	3.68	---	4.01	3.23	---
Mean	---	3.87	4.16	5.20	5.67	8.72	5.85	4.14	3.66	3.81	3.49	5.42
Max	---	5.82	6.50	8.38	8.53	21.33	10.29	6.00	3.95	5.01	3.90	15.36
Min	---	3.23	3.68	4.13	4.17	4.34	4.66	3.68	3.51	3.44	3.23	3.21

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