Water-Data Report 2013

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. WDR MS-93-1: 1992.

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.--No estimated daily discharges. Records good. 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)
Dec 29	0615	9,610	17.46
Jan 18	0100	10,200	17.96
Feb 14	1830	*18,200	*23.63
Feb 24	0745	8,200	16.20
May 11	0030	8,150	16.16

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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	314	92	201	4,490	2,030	1,220	630	2,910	513	326	161	121
2	375	92	176	5,660	1,310	1,020	869	5,780	770	289	149	118
3	428	91	159	5,630	829	910	931	6,460	1,890	245	137	116
4	313	93	149	4,870	670	822	956	7,430	1,300	209	132	117
5	245	96	220	3,220	587	777	1,160	5,330	753	195	139	112
6	202	107	216	1,810	540	735	1,140	3,090	1,220	195	171	110
7	177	113	204	1,190	659	686	835	1,740	1,470	273	154	110
8	162	105	211	1,020	742	645	652	961	1,870	234	145	108
9	148	98	201	936	672	610	562	740	1,110	208	136	104
10	141	97	265	1,060	1,330	583	508	3,870	732	208	130	101
11	134	96	652	2,020	10,300	1,080	608	6,940	615	211	134	101
12	129	133	1,140	3,500	12,300	4,060	2,800	5,690	506	248	131	99
13	128	216	889	3,340	15,000	5,760	2,710	4,240	404	225	356	100
14	130	198	453	4,740	17,700	4,560	3,690	2,400	350	218	285	103
15	128	181	316	7,720	15,200	2,350	5,410	1,380	324	223	277	102
16	121	161	274	8,180	6,310	1,550	4,650	793	298	195	234	101
17	113	141	446	9,400	3,260	918	3,500	654	272	176	215	98
18	113	130	977	9,370	1,930	786	1,870	582	270	178	187	96
19	130	122	992	6,200	2,380	1,110	1,330	521	295	260	179	95
20	117	119	601	3,730	2,750	1,200	2,820	468	315	229	177	95
21	106	116	638	2,370	2,370	992	3,060	424	373	188	170	159
22	103	113	865	1,340	4,250	776	2,110	612	309	170	172	336
23	101	111	555	1,010	6,660	751	974	970	266	178	161	255
24	100	109	391	853	7,870	963	729	773	263	178	154	365
25	99	109	984	758	5,700	1,590	790	564	251	166	148	1,200
26	98	113	2,560	696	3,080	1,700	732	444	230	156	153	742
27	97	183	3,920	640	1,990	999	621	379	214	184	153	556
28	95	258	6,040	600	1,550	732	571	342	201	253	142	352
29	94	247	9,110	559	---	629	1,770	319	222	287	134	254
30	93	238	6,890	1,010	---	574	2,690	318	330	220	127	213
31	92	---	6,450	1,850	---	548	---	423	---	184	124	---
Total	4,826	4,078	47,145	99,772	129,969	41,636	51,678	67,547	17,936	6,709	5,267	6,539
Mean	156	136	1,521	3,218	4,642	1,343	1,723	2,179	598	216	170	218
Max	428	258	9,110	9,400	17,700	5,760	5,410	7,430	1,890	326	356	1,200
Min	92	91	149	559	540	548	508	318	201	156	124	95
Med	128	113	555	2,020	2,380	918	1,060	793	340	209	153	111
Cfsm	0.21	0.18	2.05	4.33	6.25	1.81	2.32	2.93	0.80	0.29	0.23	0.29
In.	0.24	0.20	2.36	5.00	6.51	2.08	2.59	3.38	0.90	0.34	0.26	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	298	561	1,144	1,758	2,366	2,264	1,942	1,005	426	485	326	327
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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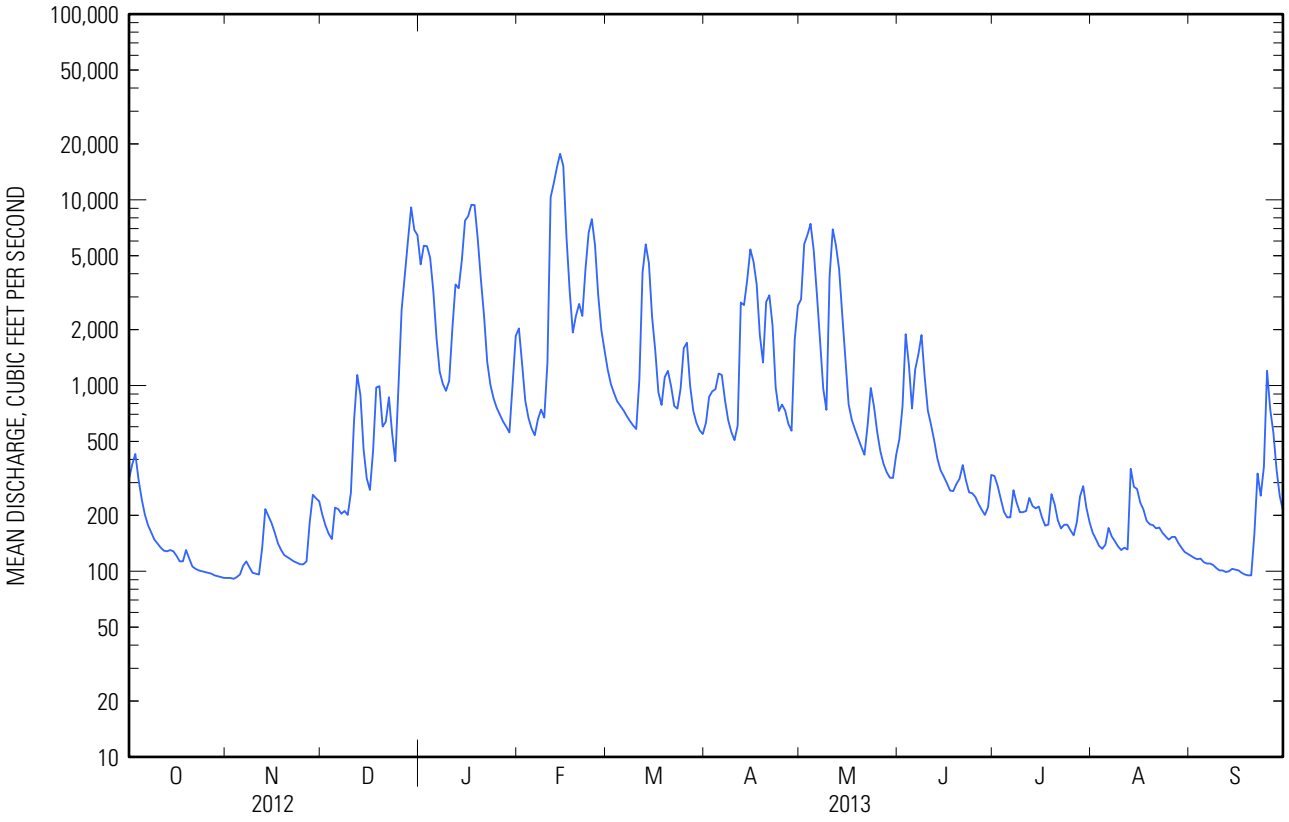
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1938 - 2013	
Annual total	339,667		483,102			
Annual mean	928		1,324		1,068	
Highest annual mean					2,291	1980
Lowest annual mean					285	2000
Highest daily mean	17,600	Mar 25	17,700	Feb 14	51,000	Apr 14, 1974
Lowest daily mean	79	Jul 2	91	Nov 3	39	Sep 6, 2000
Annual seven-day minimum	81	Jun 29	92	Oct 29	41	Sep 1, 2000
Maximum peak flow			18,200	Feb 14	54,200	Apr 14, 1974
Maximum peak stage			23.63	Feb 14	32.60	Apr 14, 1974
Instantaneous low flow			91	Oct 29[a]	38	Sep 6, 2000
Annual runoff (cfsm)	1.25		1.78		1.44	
Annual runoff (inches)	17.01		24.19		19.54	
10 percent exceeds	2,450		3,980		2,680	
50 percent exceeds	280		391		351	
90 percent exceeds	107		110		111	

[a] Also Oct. 30,31 and Nov. 1,2,5.



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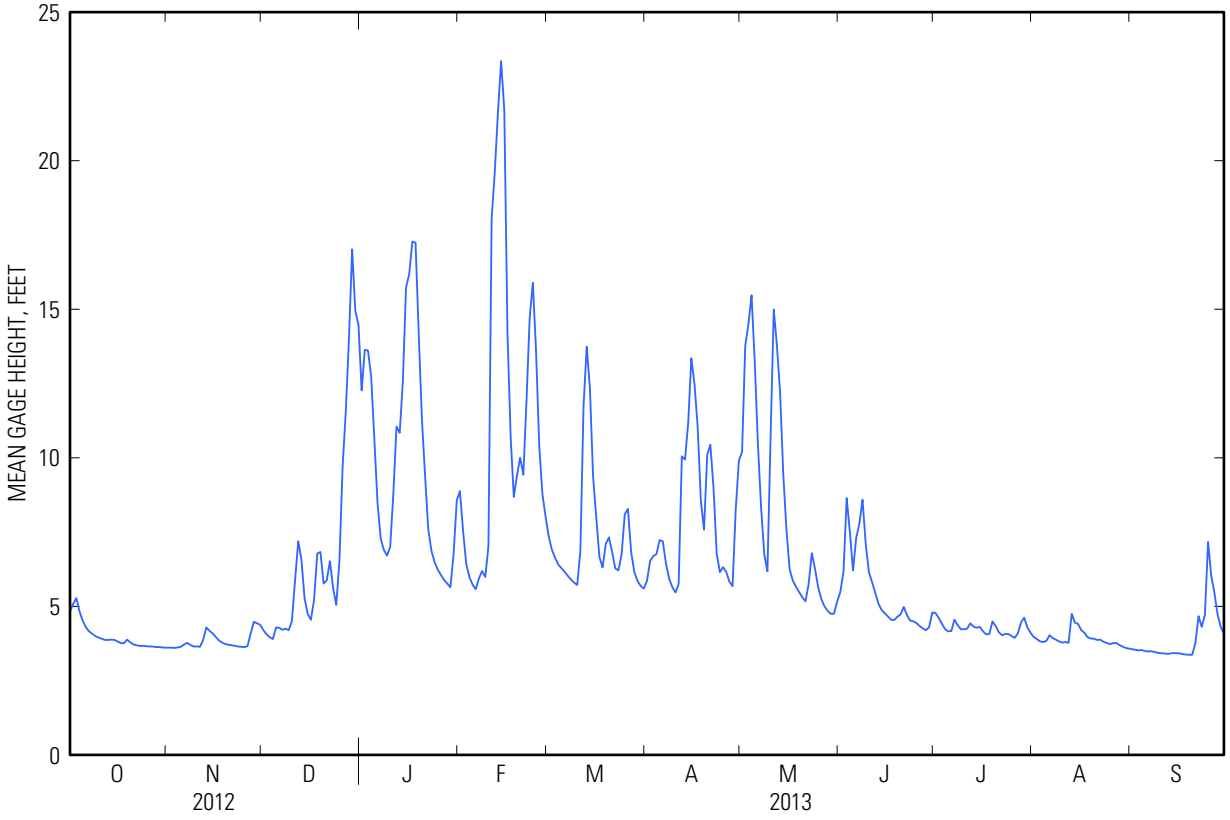
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.83	3.61	4.20	12.27	8.88	7.36	5.86	10.20	5.49	4.78	3.97	3.56
2	5.08	3.61	4.06	13.63	7.53	6.91	6.53	13.76	6.17	4.62	3.90	3.54
3	5.28	3.60	3.96	13.61	6.42	6.64	6.69	14.50	8.64	4.42	3.82	3.52
4	4.83	3.62	3.90	12.73	5.98	6.41	6.76	15.47	7.51	4.24	3.80	3.53
5	4.52	3.64	4.29	10.64	5.73	6.29	7.23	13.24	6.21	4.16	3.84	3.50
6	4.30	3.72	4.28	8.49	5.58	6.17	7.19	10.46	7.30	4.17	4.03	3.48
7	4.16	3.77	4.21	7.29	5.94	6.03	6.44	8.34	7.78	4.55	3.93	3.49
8	4.08	3.70	4.25	6.90	6.19	5.91	5.93	6.76	8.59	4.37	3.88	3.47
9	4.00	3.65	4.20	6.71	5.99	5.80	5.65	6.18	7.11	4.23	3.82	3.44
10	3.95	3.65	4.50	7.00	7.03	5.72	5.47	10.70	6.16	4.23	3.78	3.42
11	3.91	3.64	5.89	8.80	18.04	6.87	5.75	14.99	5.82	4.25	3.80	3.42
12	3.87	3.87	7.19	11.05	19.63	11.76	10.05	13.77	5.46	4.43	3.77	3.40
13	3.87	4.29	6.57	10.84	21.64	13.74	9.94	12.20	5.10	4.32	4.75	3.41
14	3.88	4.18	5.27	12.58	23.35	12.35	11.16	9.45	4.88	4.28	4.45	3.43
15	3.87	4.09	4.74	15.73	21.70	9.38	13.35	7.58	4.77	4.31	4.41	3.42
16	3.82	3.97	4.55	16.18	14.22	8.00	12.48	6.25	4.66	4.16	4.20	3.42
17	3.76	3.85	5.23	17.28	10.71	6.66	11.04	5.87	4.55	4.06	4.11	3.39
18	3.76	3.78	6.78	17.24	8.68	6.31	8.56	5.66	4.54	4.07	3.96	3.38
19	3.88	3.73	6.83	14.19	9.41	7.10	7.58	5.48	4.65	4.49	3.92	3.37
20	3.79	3.71	5.77	11.32	10.0	7.32	10.09	5.31	4.73	4.34	3.91	3.37
21	3.72	3.69	5.88	9.41	9.43	6.84	10.44	5.17	4.98	4.13	3.87	3.77
22	3.69	3.67	6.52	7.61	11.92	6.28	8.98	5.75	4.71	4.03	3.88	4.67
23	3.67	3.65	5.61	6.88	14.69	6.21	6.78	6.79	4.52	4.07	3.81	4.31
24	3.67	3.64	5.05	6.49	15.89	6.75	6.15	6.27	4.50	4.07	3.77	4.71
25	3.66	3.63	6.55	6.24	13.64	8.10	6.32	5.65	4.44	4.00	3.73	7.17
26	3.65	3.66	9.71	6.06	10.45	8.28	6.16	5.25	4.34	3.94	3.76	6.03
27	3.65	4.09	11.57	5.89	8.80	6.85	5.83	5.00	4.26	4.09	3.77	5.46
28	3.63	4.48	14.01	5.77	8.03	6.16	5.68	4.85	4.20	4.46	3.70	4.73
29	3.63	4.43	17.02	5.64	---	5.86	8.26	4.75	4.30	4.62	3.65	4.30
30	3.62	4.38	14.94	6.76	---	5.69	9.91	4.75	4.79	4.29	3.60	4.10
31	3.61	---	14.48	8.56	---	5.60	---	5.16	---	4.11	3.58	---
Mean	3.99	3.83	6.84	9.99	11.27	7.27	7.94	8.24	5.51	4.27	3.91	3.94
Max	5.28	4.48	17.02	17.28	23.35	13.74	13.35	15.47	8.64	4.78	4.75	7.17
Min	3.61	3.60	3.90	5.64	5.58	5.60	5.47	4.75	4.20	3.94	3.58	3.37

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