Water-Data Report 2011

02481880 PEARL RIVER AT BURNSIDE, MS

Pearl Basin
Upper Pearl Subbasin

LOCATION.--Lat 32°50′29″, long 89°05′52″ referenced to North American Datum of 1983, in NE ¼ NE ¼ sec.6, T.11 N., R.12 E., Neshoba County, MS, Hydrologic Unit 03180001, Choctaw Meridian, on right bank at downstream edge of roadway at bridge on State Highway 15, 2.4 mi upstream from Illinois Central and Gulf railroad, 4.8 mi north of Philadelphia and 0.9 mi south of Burnside.

DRAINAGE AREA.--520 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1981 to current year. Daily mean gage heights published since October 1984.

GAGE.--Water-stage recorder. Datum of gage is 376 ft above NGVD of 1929.

REMARKS.--Estimataed daily discharges: Oct. 1-27, Oct. 30 - Nov. 3, Nov. 9-17, Jan. 8-13, Mar. 14-16, June 30 and July 1-4. Records good except for estimated daily discharges, which are poor. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 70,600 ft^3/s, Apr. 13, 1979, gage height, 23.31 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 11	0445	*10,400	*16.12
Sep 7	2000	5,310	14.50

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 02481880, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/02481880.2011.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	e12	e24	344	475	875	294	339	1,200	16	e14	54	3.0
2	e11	e22	441	934	1,020	271	349	942	13	e12	37	2.9
3	e10	e21	538	833	1,020	241	340	865	11	e10	24	2.6
4	e9.3	80	535	1,130	1,120	212	323	829	7.9	e8.6	16	3.2
5	e8.0	79	462	1,510	1,140	234	466	700	6.6	7.3	11	1,190
6	e6.8	59	418	1,370	1,010	493	535	595	6.1	6.6	8.0	2,890
7	e5.7	49	395	1,080	951	610	683	527	5.4	6.2	7.0	4,410
8	e4.2	43	357	e820	893	900	846	448	4.9	6.0	13	4,550
9	e3.9	e33	303	e650	807	3,270	803	354	4.6	6.0	11	2,990
10	e2.6	e30	244	e490	724	7,960	662	265	4.4	5.5	7.4	1,960
11	e1.8	e27	194	400	634	e9,870	531	192	4.2	4.9	5.8	1,410
12	e0.86	e24	191	e324	562	e6,700	443	137	4.2	5.0	5.2	1,060
13	e2.5	e21	215	e282	504	e3,500	368	103	4.0	5.4	4.5	804
14	e4.3	e18	229	246	455	e2,100	313	88	4.2	6.7	3.7	582
15	e7.4	e15	198	220	409	e1,700	271	104	5.1	7.2	3.1	407
16	e7.0	e12	160	202	368	e1,600	285	135	6.7	6.1	2.7	280
17	e6.6	e10	135	187	329	e1,550	244	110	13	5.7	2.4	188
18	e6.0	98	120	175	294	1,290	236	83	7.0	4.9	2.7	119
19	e5.8	90	108	167	266	1,040	254	69	23	4.3	2.7	87
20	e5.5	81	96	159	244	871	269	63	18	3.9	3.5	114
21	e5.2	74	88	155	228	735	383	66	13	12	4.5	128
22	e4.9	69	82	146	205	603	920	72	25	52	6.7	137
23	e4.6	78	77	139	184	488	1,190	72	28	29	5.5	104
24	e4.3	103	73	131	165	388	2,070	66	40	52	4.3	73
25	e4.1	156	69	307	190	317	1,780	58	33	79	3.6	54
26	e5.2	149	64	695	244	258	1,330	49	34	122	3.6	42
27	e18	102	58	769	295	215	1,180	42	32	111	3.3	46
28	64	82	58	1,010	303	188	1,130	34	24	106	3.0	58
29	39	79	56	1,130	---	165	1,250	29	19	159	3.1	67
30	e30	222	54	993	---	250	1,460	24	e15	111	3.4	70
31	e26	---	57	912	---	323	---	20	---	71	3.3	---
Total	326.56	1,950	6,419	18,041	15,439	48,636	21,253	8,341	432.3	1,040.3	269.0	23,831.7
Mean	10.5	65.0	207	582	551	1,569	708	269	14.4	33.6	8.68	794
Max	64	222	538	1,510	1,140	9,870	2,070	1,200	40	159	54	4,550
Min	0.86	10	54	131	165	165	236	20	4.0	3.9	2.4	2.6
Med	5.8	64	160	475	432	603	498	103	12	7.3	4.5	123
Cfsm	0.02	0.12	0.40	1.12	1.06	3.02	1.36	0.52	0.03	0.06	0.02	1.53
In.	0.02	0.14	0.46	1.29	1.10	3.48	1.52	0.60	0.03	0.07	0.02	1.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	181	372	868	1,180	1,576	1,249	1,029	534	240	168	96.5	152
Max	1,866	1,326	3,408	3,099	3,727	3,149	3,686	4,021	1,148	906	483	1,402
(WY)	(2010)	(2003)	(1983)	(1990)	(2003)	(1983)	(1983)	(1983)	(1997)	(1989)	(2003)	(2009)
Min	0.94	3.65	7.83	93.8	109	221	44.1	3.80	2.15	3.90	2.73	0.73
(WY)	(1988)	(1988)	(1988)	(2000)	(2000)	(2007)	(2007)	(2007)	(1988)	(2000)	(1999)	(2000)

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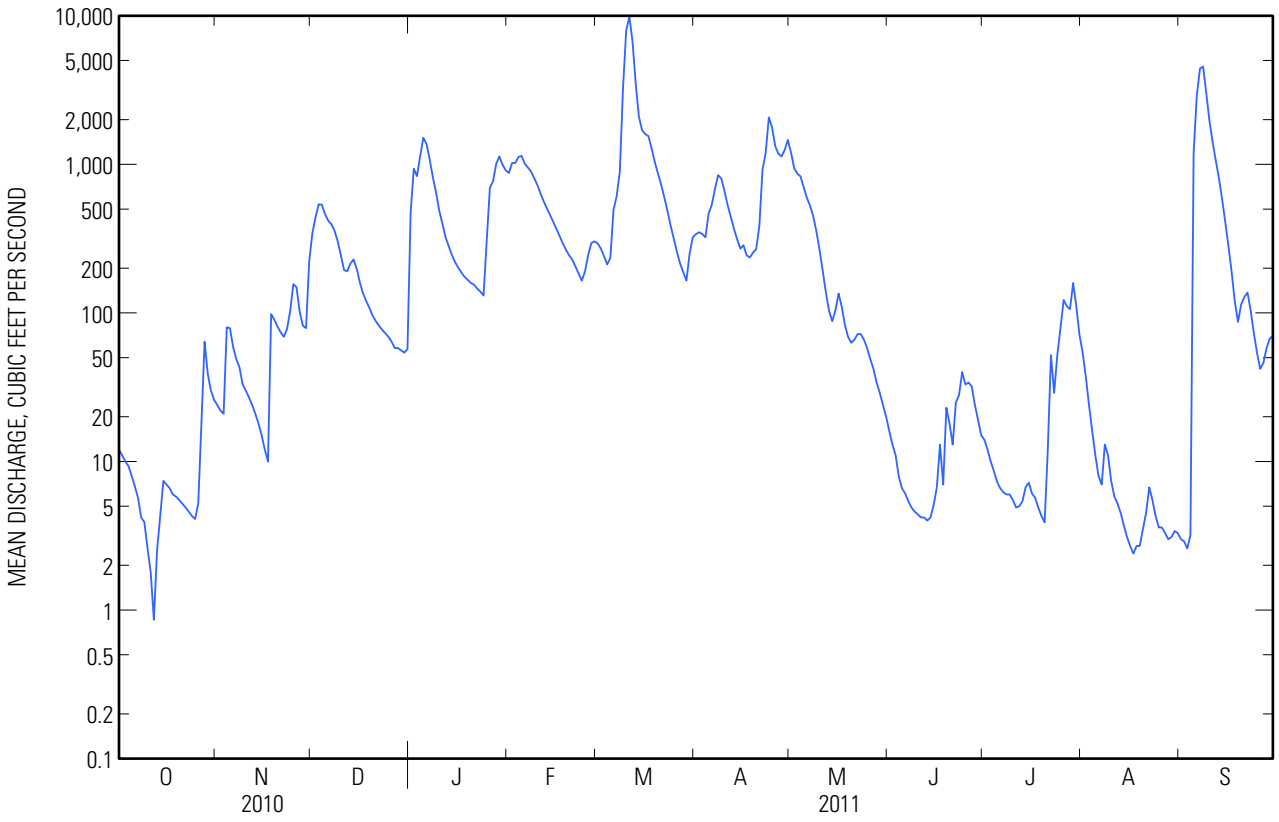
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1981 - 2011	
Annual total	148,325.46		145,978.86			
Annual mean	406		400		640	
Highest annual mean					1,732	1983
Lowest annual mean					141	1988
Highest daily mean	5,150	Feb 7	9,870	Mar 11	34,600	May 21, 1983
Lowest daily mean	0.86	Oct 12	0.86	Oct 12 [a]	0.29	Sep 20, 2000
Annual seven-day minimum	2.6	Sep 19	2.9	Oct 8	0.36	Sep 1, 2000
Maximum peak flow			10,400	Mar 11	37,800	May 21, 1983
Maximum peak stage			16.12	Mar 11	19.77	May 21, 1983
Annual runoff (cfsm)	0.781		0.769		1.23	
Annual runoff (inches)	10.61		10.44		16.74	
10 percent exceeds	986		1,020		1,610	
50 percent exceeds	84		102		165	
90 percent exceeds	6.4		4.5		4.8	

[a] Could have been lower through estimated period.



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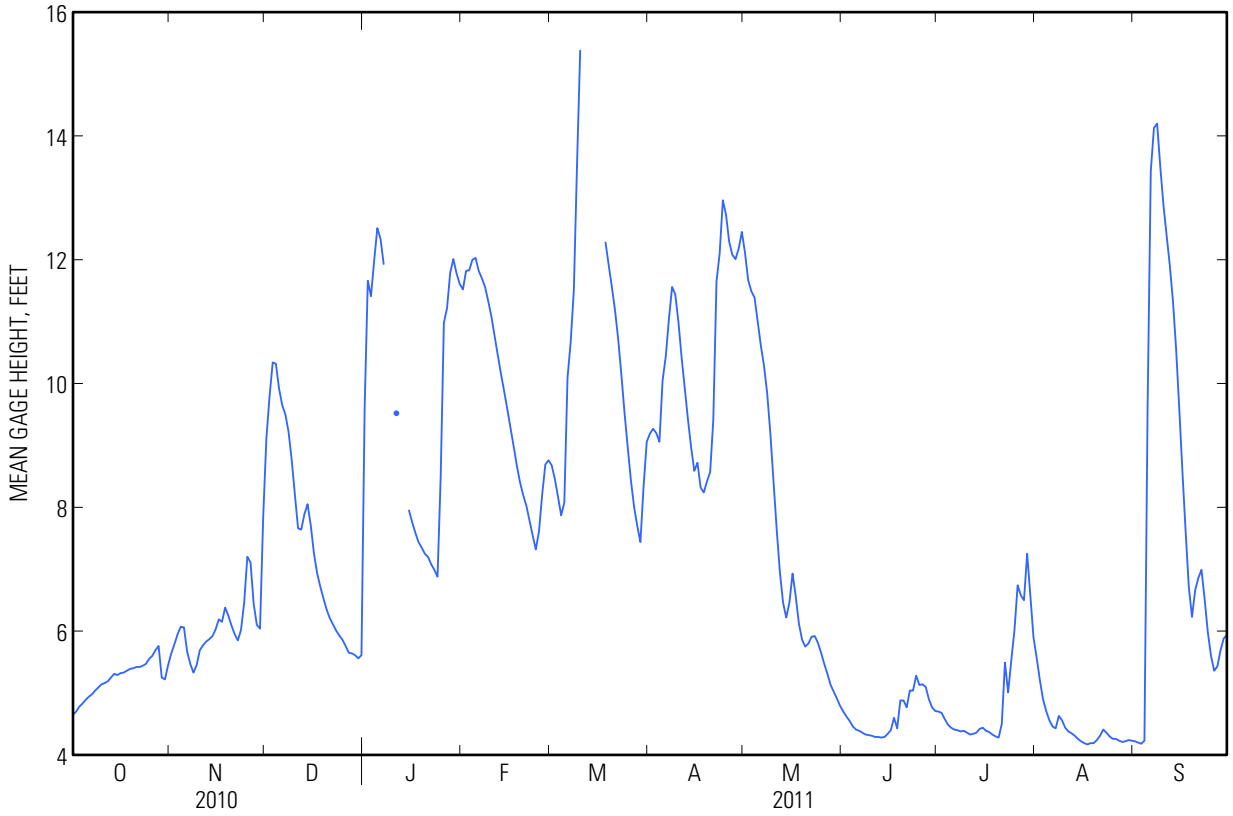
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.65	5.64	9.11	9.60	11.52	8.68	9.19	12.11	4.70	4.70	5.57	4.22
2	4.70	5.79	9.79	11.66	11.82	8.46	9.27	11.67	4.62	4.68	5.21	4.20
3	4.78	5.95	10.34	11.41	11.83	8.17	9.20	11.49	4.55	4.58	4.90	4.18
4	4.83	6.07	10.32	11.98	12.00	7.87	9.06	11.39	4.46	4.49	4.71	4.23
5	4.89	6.06	9.92	12.51	12.03	8.08	10.05	11.00	4.41	4.44	4.56	9.63
6	4.94	5.67	9.65	12.34	11.82	10.09	10.44	10.61	4.39	4.41	4.46	13.43
7	4.98	5.47	9.50	11.93	11.70	10.67	11.05	10.28	4.36	4.40	4.43	14.13
8	5.04	5.33	9.22	---	11.56	11.51	11.56	9.84	4.33	4.38	4.63	14.20
9	5.09	5.45	8.76	---	11.33	13.53	11.44	9.19	4.32	4.39	4.56	13.50
10	5.14	5.69	8.20	---	11.08	15.38	10.99	8.41	4.31	4.36	4.44	12.88
11	5.16	5.77	7.66	9.52	10.77	---	10.42	7.64	4.29	4.33	4.38	12.39
12	5.19	5.83	7.64	---	10.46	---	9.92	6.95	4.29	4.34	4.35	11.91
13	5.25	5.87	7.89	---	10.16	---	9.42	6.46	4.28	4.36	4.31	11.33
14	5.31	5.92	8.05	---	9.88	---	8.97	6.22	4.29	4.42	4.26	10.55
15	5.29	6.03	7.71	7.95	9.59	---	8.59	6.46	4.34	4.44	4.22	9.58
16	5.32	6.19	7.26	7.76	9.29	---	8.72	6.93	4.40	4.39	4.19	8.56
17	5.33	6.15	6.94	7.59	8.99	---	8.32	6.56	4.60	4.37	4.17	7.60
18	5.36	6.38	6.72	7.44	8.68	12.28	8.24	6.12	4.43	4.33	4.19	6.71
19	5.39	6.25	6.53	7.35	8.41	11.91	8.42	5.86	4.88	4.30	4.19	6.23
20	5.40	6.09	6.35	7.25	8.20	11.56	8.57	5.75	4.88	4.28	4.24	6.66
21	5.42	5.95	6.21	7.20	8.03	11.18	9.42	5.80	4.77	4.50	4.31	6.86
22	5.42	5.85	6.11	7.08	7.79	10.71	11.65	5.91	5.04	5.49	4.41	6.99
23	5.44	6.02	6.01	6.99	7.55	10.14	12.10	5.92	5.04	5.01	4.36	6.51
24	5.47	6.46	5.93	6.88	7.32	9.52	12.96	5.81	5.28	5.53	4.30	5.98
25	5.55	7.20	5.86	8.50	7.61	8.97	12.73	5.65	5.13	6.02	4.26	5.60
26	5.60	7.11	5.76	10.98	8.20	8.44	12.29	5.47	5.14	6.74	4.26	5.36
27	5.69	6.44	5.65	11.22	8.69	8.01	12.08	5.31	5.10	6.58	4.23	5.43
28	5.76	6.10	5.64	11.79	8.76	7.70	12.01	5.13	4.90	6.50	4.21	5.69
29	5.25	6.04	5.61	12.01	---	7.44	12.18	5.02	4.77	7.25	4.22	5.88
30	5.22	7.85	5.56	11.78	---	8.34	12.45	4.91	4.71	6.58	4.24	5.94
31	5.45	---	5.61	11.61	---	9.06	---	4.79	---	5.90	4.23	---
Mean	5.24	6.09	7.47	---	9.82	---	10.39	7.44	4.63	4.98	4.42	8.21
Max	5.76	7.85	10.34	---	12.03	---	12.96	12.11	5.28	7.25	5.57	14.20
Min	4.65	5.33	5.56	---	7.32	---	8.24	4.79	4.28	4.28	4.17	4.18

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