01610000 POTOMAC RIVER AT PAW PAW, WV

Potomac Basin
Cacapon-Town Subbasin

LOCATION.--Lat 39°32'20.1", long 78°27'23.0" referenced to North American Datum of 1983, Allegany County, MD, Hydrologic Unit 02070003, on left bank 250 ft upstream from bridge on Maryland State Highway 51 at Paw Paw, 3.3 mi downstream from Little Cacapon River, and at mile 277.

DRAINAGE AREA.--3,129 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR WV-97-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 487.88 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 25, 1939, nonrecording gage at bridge 250 ft downstream at same datum.

REMARKS.--Records good, except those for estimated daily discharges (missing record), which are poor. Low flow affected by Stony River Reservoir prior to July 1981, since December 1950 by Savage River Reservoir (see station 01597500), and since July 1981 by Jennings Randolph Lake. National Weather Service gage-height telemeter at station. U.S. Army Corps of Engineers satellite collection platform at station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 54.0 ft on Mar. 18, 1936, discharge, 240,000 ft³/s, from rating curve extended above 85,000 ft³/s on basis of slope-area measurement of peak flow at site 5.0 mi upstream at Okonoko, WV.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar 5	2000	*46,300	*24.06
Apr 21	1600	21,800	16.10
May 12	2100	36,100	20.98
May 17	0630	20,500	15.60

Minimum discharge, 349 ft³/s, Oct. 14, 17, 22-24.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	454	1,100	957	4,270	3,070	3,510	2,530	8,160	5,880	1,210	899	1,120
2	418	971	925	4,140	4,820	3,420	2,430	6,740	5,000	1,140	1,030	812
3	403	887	1,170	3,510	7,580	3,180	2,260	5,500	3,980	1,060	1,640	718
4	389	829	1,720	2,930	6,480	3,460	2,270	7,550	4,490	1,150	1,740	673
5	380	787	1,600	2,720	6,180	33,500	2,450	6,240	11,500	1,930	1,180	631
6	372	766	1,570	2,450	8,400	30,600	2,460	5,120	10,300	2,070	989	617
7	376	693	1,400	2,440	11,000	17,100	2,760	4,480	6,170	2,060	911	597
8	411	667	1,340	3,070	10,400	13,900	3,970	3,810	e4,500	2,250	833	587
9	720	681	1,470	3,070	8,720	11,200	3,740	3,540	e3,500	3,230	788	610
10	674	712	4,250	2,900	7,520	9,040	3,420	7,120	e2,800	2,620	754	665
11	396	686	7,910	5,130	5,980	7,560	3,180	14,400	e2,400	1,960	718	614
12	358	713	6,860	10,300	4,930	6,600	3,870	29,400	2,150	1,460	689	611
13	354	803	6,040	9,500	4,600	5,670	4,820	29,200	1,940	1,310	610	708
14	658	853	8,470	7,310	4,410	4,930	4,150	17,000	2,130	1,440	656	751
15	1,120	886	7,370	6,010	4,380	4,750	3,610	11,900	2,550	1,360	644	694
16	441	1,200	6,660	4,820	4,180	4,600	3,160	11,400	2,260	1,220	632	622
17	397	1,170	8,370	4,140	3,970	4,460	2,830	19,100	2,440	1,130	610	581
18	618	1,430	7,540	3,750	4,250	4,290	2,590	12,800	2,670	1,030	601	556
19	398	1,290	5,710	3,320	4,790	5,810	2,390	11,600	2,360	946	581	539
20	556	1,160	4,570	2,940	4,420	9,810	3,970	10,900	1,890	897	549	520
21	391	1,090	3,900	2,460	3,990	10,900	16,400	15,500	1,540	884	529	862
22	357	1,050	3,310	2,260	3,710	9,460	14,200	13,200	1,460	960	527	1,180
23	349	1,010	3,010	2,300	3,480	7,920	12,000	10,900	1,800	1,320	519	542
24	403	948	3,850	2,110	3,380	6,320	9,720	7,560	2,220	1,680	510	496
25	583	902	4,580	1,960	3,390	5,430	7,270	5,730	1,770	1,380	507	485
26	750	876	4,360	1,840	3,360	4,550	6,270	4,790	1,500	1,200	499	486
27	1,570	883	3,930	1,850	3,820	4,030	8,950	4,380	1,360	1,050	490	635
28	2,890	917	3,570	1,740	4,000	3,830	9,150	4,220	1,250	934	669	1,200
29	2,160	907	3,950	1,700	3,620	3,450	12,500	3,740	1,220	864	1,460	1,830
30	1,560	975	4,140	1,950	---	2,990	10,200	3,310	1,230	795	1,330	1,170
31	1,250	---	4,160	2,460	---	2,680	---	3,780	---	845	1,090	---
Total	22,156	27,842	128,662	111,350	152,830	248,950	169,520	303,070	96,260	43,385	25,184	22,112
Mean	715	928	4,150	3,592	5,270	8,031	5,651	9,776	3,209	1,400	812	737
Max	2,890	1,430	8,470	10,300	11,000	33,500	16,400	29,400	11,500	3,230	1,740	1,830
Min	349	667	925	1,700	3,070	2,680	2,260	3,310	1,220	795	490	485
Cfsm	0.23	0.30	1.33	1.15	1.68	2.57	1.81	3.12	1.03	0.45	0.26	0.24
In.	0.26	0.33	1.53	1.32	1.82	2.96	2.02	3.60	1.14	0.52	0.30	0.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,499	2,146	3,341	3,993	5,209	7,502	6,083	4,563	2,618	1,368	1,256	1,279
Max	9,709	17,180	12,300	13,040	14,040	17,440	15,620	11,210	10,510	5,071	6,775	12,080
(WY)	(1977)	(1986)	(1973)	(1996)	(1998)	(1994)	(1993)	(1996)	(2003)	(1949)	(1996)	(1996)
Min	261	327	388	679	853	1,585	1,882	1,074	544	303	278	252
(WY)	(1952)	(1966)	(1966)	(1981)	(2002)	(2006)	(1995)	(1941)	(1965)	(1966)	(1944)	(1959)

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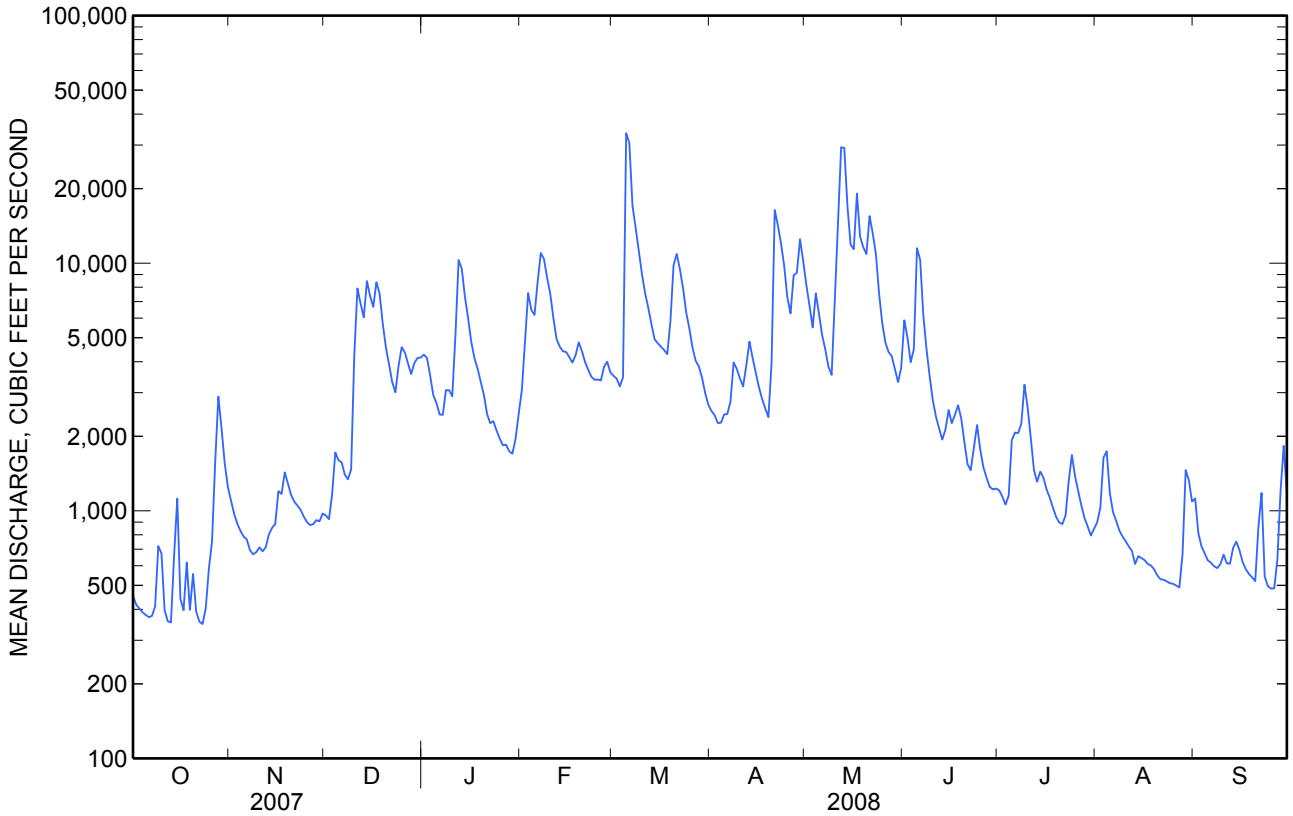
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1939 - 2008	
Annual total	1,040,057		1,351,321			
Annual mean	2,849		3,692		3,395	
Highest annual mean					6,556	2003
Lowest annual mean					1,499	1969
Highest daily mean	43,600	Apr 16	33,500	Mar 5	125,000	Nov 6, 1985
Lowest daily mean	349	Oct 23	349	Oct 23	172	Sep 10, 1966[a]
Annual seven-day minimum	393	Oct 2	393	Oct 2	179	Sep 7, 1966
Maximum peak flow			46,300	Mar 5	[b]235,000	Nov 5, 1985
Maximum peak stage			24.06	Mar 5	53.58	Nov 5, 1985
Instantaneous low flow			349	Oct 23[c]	164	Sep 10, 1966[d]
Annual runoff (cfsm)	0.911		1.18		1.09	
Annual runoff (inches)	12.37		16.07		14.74	
10 percent exceeds	6,980		8,790		7,750	
50 percent exceeds	1,270		2,260		1,820	
90 percent exceeds	520		582		462	

[a] Sept. 10, 12, 13, 1966.

[b] From rating curve extended above 85,000 ft³/s on basis of slope-area measurement of peak flow at site 5.0 mi upstream at Okonoko, WV.

[c] Oct. 14, 17, 22-24.

[d] Sept. 10, 11, 1966.