01638500 POTOMAC RIVER AT POINT OF ROCKS, MD

LOCATION.--Lat 39°16'24.9", long 77°32'35.2", Frederick County, Hydrologic Unit 02070008, on left bank at downstream side of bridge on U.S. Highway 15 at Point of Rocks, 0.3 mi downstream from Catoctin Creek (Virginia), 6 mi upstream from Monocacy River, and at mile 159.5.

DRAINAGE AREA.--9,651 mi^2.

PERIOD OF RECORD.--February 1895 to current year.

REVISED RECORDS.--WSP 192: 1895-1905. WSP 1432: 1899, 1901-2, 1904-5, 1912, 1914(M), 1915, 1917(M), 1918, 1919(M), 1920, 1921-23(M), 1924, 1925-28(M), 1930(M).

GAGE.--Water-stage recorder. Datum of gage is 200.63 ft above sea level. Prior to Oct. 28, 1929, nonrecording gage at same site. Prior to Sept. 2, 1902, at datum about 0.45 ft higher.

REMARKS.--No estimated daily discharges. Records good. Low flow affected slightly from 1913 to July 1981 by Stony River Reservoir; since December 1950 by Savage River Reservoir (see station 01597500); and since July 1981 by Jennings Randolph Lake. Low flow affected extensively at times by run-of-the-river hydroelectric plants. National Weather Service gage-height telemeter 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.--Flood of June 2, 1889, reached a stage of 40.2 ft, from floodmarks, discharge, about 460,000 ft^3/s from rating curve extended as explained in footnotes.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 35,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 23	0600	*66,600	*13.23	Apr 13	1030	37,500	8.92

Minimum discharge, 1,350 ft^3/s, Sept. 16, 17, 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10100	1940	3090	4710	21700	6680	32900	6120	7610	4340	13800	2510
2	8520	1970	3100	4280	20900	6330	28300	5840	6650	4000	9580	2400
3	7470	1960	2960	4450	15900	6060	24100	5420	6030	3820	6650	2200
4	6550	1960	2870	4240	12700	5920	21200	5070	5460	3790	5500	2330
5	5770	1940	2740	3570	10400	6180	18100	4880	5430	4150	5230	2780
6	5070	1860	2510	3240	9040	6730	15900	4620	5070	3860	4790	2390
7	4610	1950	2530	3170	8170	7460	14300	4420	7080	3800	4970	2220
8	4150	1900	2370	3050	7360	7380	13800	4250	13600	3690	4670	1790
9	3920	1940	2510	3390	6840	7370	15100	4150	18300	3720	4080	1980
10	4000	2130	2530	3590	6360	7500	15600	3940	12600	3610	3530	1730
11	4150	2510	2480	3120	6050	7510	16600	3960	9670	3650	3180	1810
12	3410	2780	2540	2750	6340	7150	21400	3750	7620	3390	3630	1670
13	3100	3230	2370	2860	6770	7070	35200	3450	6670	3160	5220	1620
14	2850	3330	2640	2680	6720	7860	28100	3280	5670	2870	10000	1620
15	2710	2890	2940	2570	7190	9900	22000	3280	5010	2590	11100	1560
16	2550	2560	3070	2730	7220	10800	19300	3320	4760	2650	7810	1470
17	2710	2500	6610	2520	8260	10300	24600	3230	5410	2620	5690	1380
18	2560	2270	8790	2560	10600	10300	23400	3040	6700	2550	4460	1450
19	2630	2250	12100	2760	11000	11000	18900	3170	5440	2400	3830	1400
20	2660	2210	13000	3660	10400	11600	15800	3410	4610	2390	3470	1450
21	2810	2160	11400	5650	9070	12300	13700	4100	4050	2250	3490	1560
22	2520	2090	8540	8530	8020	30900	12100	6780	4410	2360	3540	1580
23	2480	2030	8500	10100	7080	59000	11000	9370	10200	2500	3520	1510
24	2450	1970	6310	9400	6460	37400	10200	12400	20200	2430	3240	1870
25	2290	1970	5840	7590	6150	27900	9220	18100	16100	2250	3020	2330
26	2280	2250	4920	7150	6120	22900	8370	14400	11400	2030	2790	1850
27	2230	2580	4320	6100	6160	19500	7700	12600	8100	2040	2550	1830
28	2100	2740	4170	5790	6700	16600	7110	16800	6430	2150	2510	1830
29	2040	3080	4730	5300	---	14500	6610	13900	5220	2540	2470	1760
30	2160	3000	4810	6150	---	18900	6240	11300	4680	5040	2380	1730
31	1970	---	4540	8380	---	30300	---	9130	---	6950	2430	---
TOTAL	114820	69950	151830	146040	255680	451300	516850	211480	240180	99590	153130	55610
MEAN	3704	2332	4898	4711	9131	14560	17230	6822	8006	3213	4940	1854
MAX	10100	3330	13000	10100	21700	59000	35200	18100	20200	6950	13800	2780
MIN	1970	1860	2370	2520	6050	5920	6240	3040	4050	2030	2380	1380
CFSM	.38	.24	.51	.49	.95	1.51	1.79	.71	.83	.33	.51	.19
IN.	.44	.27	.59	.56	.99	1.74	1.99	.82	.93	.38	.59	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2001, BY WATER YEAR (WY)

MEAN	5026	5632	8540	11450	14430	19750	16460	12230	7964	4493	4286	3786
MAX	37030	39000	32610	42160	47870	68360	43840	41970	40400	16000	23580	38300
(WY)	1943	1986	1973	1996	1998	1936	1993	1924	1972	1949	1955	1996
MIN	706	840	1253	1703	2661	5400	4368	3276	1932	1056	771	834
(WY)	1931	1931	1966	1981	1934	1931	1915	1930	1969	1966	1930	1930

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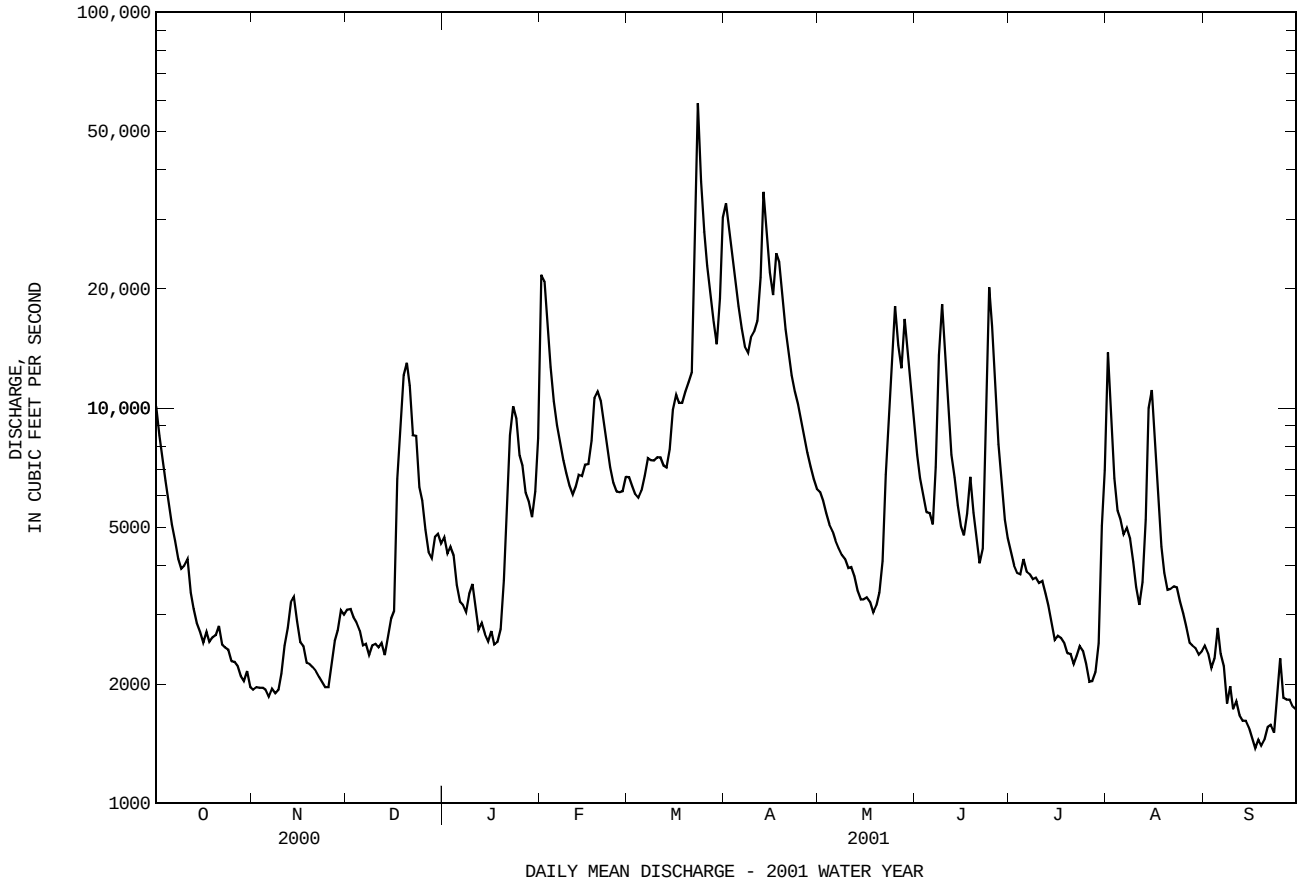
SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1895 - 2001	
ANNUAL TOTAL	2513530		2466460			
ANNUAL MEAN	6868		6757		9488	
HIGHEST ANNUAL MEAN					18750	1996
LOWEST ANNUAL MEAN					4366	1969
HIGHEST DAILY MEAN	49200	Feb 21	59000	Mar 23	434000	Mar 19 1936
LOWEST DAILY MEAN	1860	Nov 6	1380	Sep 17	540	Sep 10 1914
ANNUAL SEVEN-DAY MINIMUM	1930	Nov 3	1470	Sep 15	593	Sep 6 1966
MAXIMUM PEAK FLOW			66600	Mar 23	(a)480000	Mar 19 1936
MAXIMUM PEAK STAGE			13.23	Mar 23	41.03	Mar 19 1936
INSTANTANEOUS LOW FLOW			1350	(b)	530	(c)
ANNUAL RUNOFF (CFSM)	.71		.70		.98	
ANNUAL RUNOFF (INCHES)	9.69		9.51		13.36	
10 PERCENT EXCEEDS	13400		14400		20700	
50 PERCENT EXCEEDS	4390		4420		5380	
90 PERCENT EXCEEDS	2470		2040		1690	

a From rating curve extended above 300,000 ft^3/s, on the basis of adjustment of figure of peak flow at station near Washington for inflow and storage, and slope-area measurement of peak flow.
b Sept. 16, 17, 19.
c Sept. 11, 12, 1966.