

POTOMAC RIVER BASIN

01628500 SOUTH FORK SHENANDOAH RIVER NEAR LYNNWOOD, VA

**LOCATION.**---Lat 38°19'21", long 78°45'17", NAD83, Rockingham County, Hydrologic Unit 02070005, on left bank 1.2 mi northeast of Lynnwood and 3.3 mi downstream from confluence of North and South Rivers.

**DRAINAGE AREA.**---1,084 mi<sup>2</sup>.

**PERIOD OF RECORD.**---September 1930 to current year.

**REVISED RECORDS.**---WSP 1171: 1933(M). WSP 2103: Drainage area.

**GAGE.**---Water-stage recorder. Datum of gage is 1,013.17 ft above sea level.

**REMARKS.**---Records good except for periods with ice effect, Dec. 24, 25, 27, 30 and Jan. 1-6, which are fair. Diurnal fluctuation at low flow prior to 1960 caused by mill at Lynnwood and since by irrigation. National Weather Service rain gage and gage-height telemeters and Virginia Department of Emergency Services gage-height radio transmitter at station. Maximum discharge, 107,000 ft<sup>3</sup>/s, from rating curve extended above 22,000 ft<sup>3</sup>/s on basis of computations of flow over dam at gage heights 23.60 ft and 27.2 ft. Minimum gage height, 1.63 ft, Sept. 20, 1932. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

**COOPERATION.**---Records were provided by the Virginia Department of Environmental Quality - Water Division.

**EXTREMES OUTSIDE PERIOD OF RECORD.**---Maximum stage since at least 1870, that of Sept. 7, 1996.

**PEAK DISCHARGES FOR CURRENT YEAR.**---Peak discharges greater than base discharge of 7,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Mar 21	2200	*11,200	*11.63	No other peak greater than base discharge.			

**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	915	309	309	e440	940	490	3170	528	699	335	519	250
2	823	306	314	e410	930	493	3180	509	644	325	421	224
3	747	302	312	e400	873	494	2760	491	584	309	355	212
4	677	300	306	e385	805	493	2390	479	536	294	315	210
5	633	301	310	e375	754	530	2050	466	778	283	356	210
6	617	295	305	e370	710	530	1810	473	893	279	296	201
7	574	294	306	357	660	504	1700	469	786	265	276	195
8	519	293	306	378	614	489	1550	443	779	272	252	190
9	499	296	301	387	577	482	1420	433	713	349	244	189
10	479	350	295	359	555	471	1390	422	645	296	243	187
11	460	383	290	353	530	460	2290	410	587	280	294	193
12	440	352	288	354	505	457	2420	398	532	245	449	195
13	428	325	284	331	488	462	2110	388	492	230	654	185
14	416	346	322	331	476	468	1810	382	746	218	556	176
15	410	350	405	336	474	469	1560	378	721	217	418	168
16	398	348	404	326	474	536	1380	381	685	212	337	168
17	387	343	822	321	513	564	1220	402	682	209	296	167
18	380	333	1860	318	501	592	1090	419	557	214	271	170
19	373	327	1650	405	480	641	996	510	457	299	259	168
20	365	318	1340	854	469	666	910	581	409	279	255	169
21	360	311	1050	953	468	4920	864	633	389	252	249	178
22	356	303	900	892	467	7500	845	1410	550	225	240	175
23	345	297	717	810	473	4110	780	2930	679	212	230	169
24	340	293	e650	773	473	3070	731	2590	659	203	256	175
25	339	301	e600	746	471	2450	687	1920	562	188	229	266
26	335	356	573	690	507	2060	657	1630	483	191	217	240
27	330	370	e550	642	495	1740	626	1640	425	195	244	189
28	334	338	535	606	488	1500	596	1420	391	218	226	177
29	325	315	477	571	---	1390	562	1160	367	314	214	171
30	314	311	e460	623	---	3620	540	948	347	841	279	171
31	313	---	441	854	---	3630	---	793	---	645	315	---
TOTAL	14231	9666	17682	15950	16170	46281	44094	26036	17777	8894	9765	5738
MEAN	459	322	570	515	578	1493	1470	840	593	287	315	191
MAX	915	383	1860	953	940	7500	3180	2930	893	841	654	266
MIN	313	293	284	318	467	457	540	378	347	188	214	167
CFSM	.42	.30	.53	.47	.53	1.38	1.36	.77	.55	.26	.29	.18
IN.	.49	.33	.61	.55	.55	1.59	1.51	.89	.61	.31	.34	.20

01628500 SOUTH FORK SHENANDOAH RIVER NEAR LYNNWOOD, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	723	771	945	1243	1441	1874	1564	1193	861	542	610	626
MAX	4172	6886	3302	4904	6939	5785	5454	3086	3656	2013	2895	5822
(WY)	1943	1986	1949	1996	1998	1936	1987	1989	1972	1949	1940	1996
MIN	122	150	156	154	203	360	317	362	245	162	166	173
(WY)	1931	1931	1966	1966	1931	1981	1981	1977	1956	1966	1932	1964

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1931 - 2001
ANNUAL TOTAL	255390	232284	
ANNUAL MEAN	698	636	1030
HIGHEST ANNUAL MEAN			2020
LOWEST ANNUAL MEAN			397
HIGHEST DAILY MEAN	3540	Sep 3	7500
LOWEST DAILY MEAN	265	Feb 3	167
ANNUAL SEVEN-DAY MINIMUM	279	Feb 2	169
MAXIMUM PEAK FLOW			11200
MAXIMUM PEAK STAGE			11.63
INSTANTANEOUS LOW FLOW			160
ANNUAL RUNOFF (CFSM)	.64	.59	a30.84
ANNUAL RUNOFF (INCHES)	8.76	7.97	c32
10 PERCENT EXCEEDS	1380	1360	2100
50 PERCENT EXCEEDS	516	425	598
90 PERCENT EXCEEDS	309	217	239

- a From high-water mark in gage house.
- b Also Sept. 20, 29, 30, 2001.
- c Result of regulation.
- e Estimated.

