01628500 SOUTH FORK SHENANDOAH RIVER NEAR LYNNWOOD, VA

Potomac Basin
South Fork Shenandoah Subbasin

LOCATION.--Lat 38°19′21″, long 78°45′18″ referenced to North American Datum of 1927, Rockingham County, VA, 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.--1,079 mi^2.

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WSP 1171: 1933(M). OFR 2006-1308: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,001.74 ft NAVD of 1988.

COOPERATION.--Records prior to July 1, 2012 were provided by the Virginia Department of Environmental Quality - Water Division.

REMARKS.--Records good except those for estimated daily discharges and period Feb. 18-27, 2013, 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^3/s, from rating curve extended above 22,000 ft^3/s on basis of computations of flow over dam at gage heights 23.60 ft and 27.2 ft. 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 since at least 1870, that of Sept. 7, 1996.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 31	1715	10,600	11.31
Mar 12	2130	9,550	10.62
May 8	2000	*16,300	*13.76
Jun 11	0430	8,220	9.75
Jun 18	0830	9,330	10.48
Jul 12	1130	13,700	12.73

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 01628500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/01628500.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	367	413	330	475	6,150	959	1,140	797	656	726	577	577
2	413	414	323	471	3,440	911	1,160	760	615	695	568	562
3	485	404	318	472	2,550	863	1,170	724	592	779	521	575
4	425	398	319	471	1,970	812	1,130	693	565	783	501	517
5	391	388	316	459	1,550	761	1,170	669	532	774	481	484
6	360	388	311	448	1,330	840	1,150	656	579	703	463	459
7	339	384	305	443	1,180	860	1,050	3,070	1,730	641	460	439
8	345	387	306	437	1,090	809	1,000	13,500	1,480	634	453	428
9	340	382	304	426	1,030	888	979	10,200	1,200	618	448	417
10	337	374	310	428	950	1,110	959	5,540	2,730	586	449	402
11	325	371	310	459	883	1,680	931	4,220	7,580	577	529	393
12	314	369	305	535	847	5,170	1,150	3,410	4,500	6,860	544	384
13	308	481	299	633	812	7,460	1,850	2,680	2,950	3,150	480	377
14	301	545	293	718	e760	4,260	1,830	2,170	2,290	2,100	441	363
15	305	538	289	799	e710	2,990	1,640	1,790	1,740	1,630	415	353
16	304	522	290	1,800	e675	2,370	1,530	1,500	1,390	1,290	402	351
17	296	498	291	3,070	e649	2,080	1,360	1,340	1,220	1,110	395	351
18	294	471	293	2,540	603	1,970	1,270	1,200	4,660	983	497	351
19	322	445	290	1,910	595	2,190	1,200	1,110	2,240	883	691	344
20	315	424	288	1,510	600	2,360	1,850	1,060	1,560	1,110	523	339
21	300	413	335	1,240	581	2,350	2,320	1,530	1,250	1,030	468	342
22	295	394	365	1,050	559	2,050	1,960	1,910	e1,080	1,250	624	411
23	293	377	347	894	546	1,760	1,630	1,640	e960	1,060	616	379
24	290	364	383	820	530	1,550	1,380	1,540	918	911	818	361
25	288	355	423	685	510	1,500	1,200	1,310	1,110	828	584	342
26	291	347	466	681	505	1,420	1,050	1,120	931	784	530	335
27	287	346	565	649	870	1,330	940	1,000	917	712	495	323
28	293	342	564	631	986	1,240	879	917	820	698	496	321
29	317	336	518	596	---	1,160	859	848	755	655	586	316
30	410	331	506	600	---	1,100	826	773	742	608	708	314
31	440	---	492	8,110	---	1,090	---	708	---	574	590	---
Total	10,390	12,201	11,054	34,460	33,461	57,893	38,563	70,385	50,292	35,742	16,353	11,910
Mean	335	407	357	1,112	1,195	1,868	1,285	2,270	1,676	1,153	528	397
Max	485	545	565	8,110	6,150	7,460	2,320	13,500	7,580	6,860	818	577
Min	287	331	288	426	505	761	826	656	532	574	395	314
Cfsm	0.31	0.38	0.33	1.03	1.11	1.73	1.19	2.10	1.55	1.07	0.49	0.37
In.	0.36	0.42	0.38	1.19	1.15	2.00	1.33	2.43	1.73	1.23	0.56	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	701	803	989	1,225	1,382	1,842	1,565	1,213	872	544	581	660
Max	4,172	6,886	3,302	4,904	6,939	5,785	5,454	3,086	3,656	2,013	2,895	5,822
(WY)	(1943)	(1986)	(1949)	(1996)	(1998)	(1936)	(1987)	(1989)	(1972)	(1949)	(1940)	(1996)
Min	122	150	156	154	168	333	317	362	215	155	137	142
(WY)	(1931)	(1931)	(1966)	(1966)	(2002)	(2002)	(1981)	(1977)	(2002)	(2002)	(2002)	(2002)

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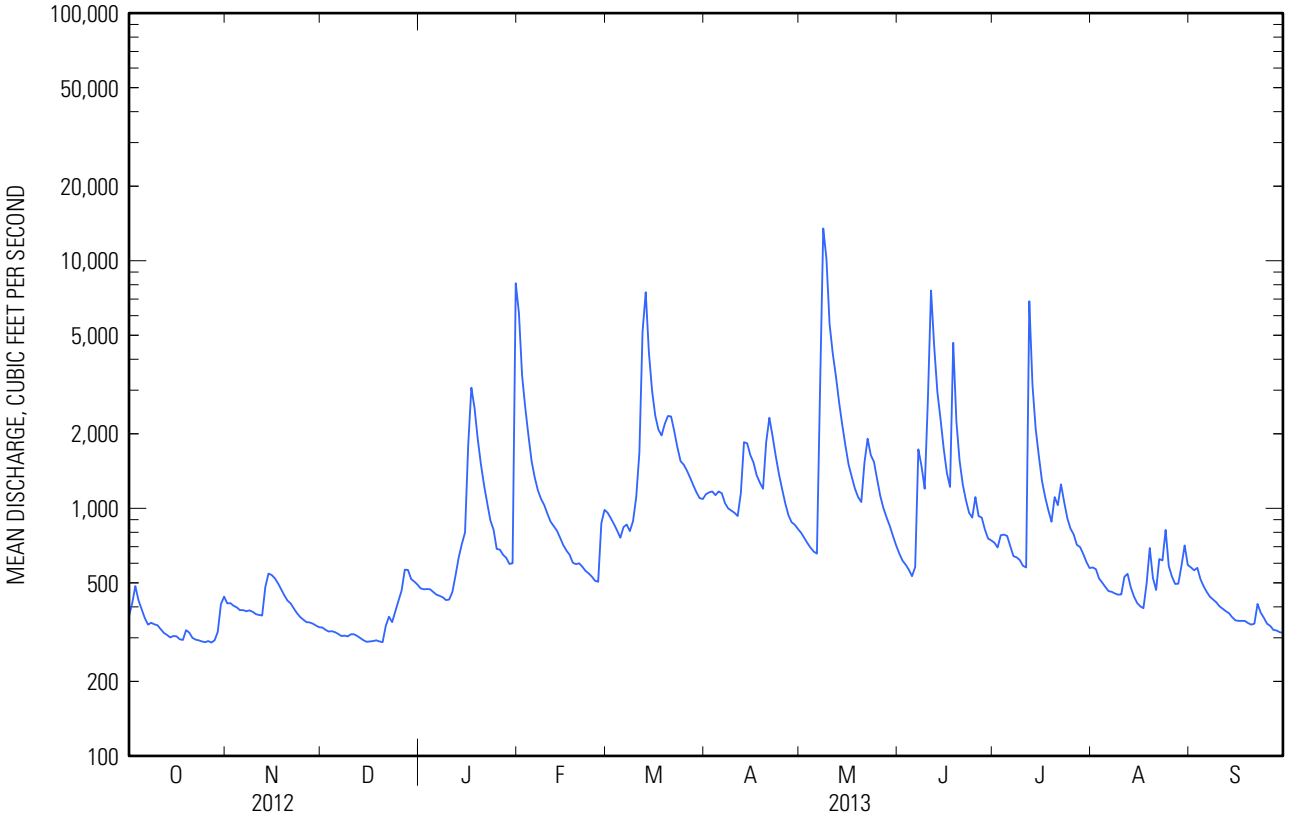
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1931 - 2013	
Annual total	280,545		382,704			
Annual mean	767		1,049		1,029	
Highest annual mean					2,020	1996
Lowest annual mean					306	2002
Highest daily mean	5,120	Mar 26	13,500	May 8	[a]63,500	Sep 7, 1996
Lowest daily mean	275	Jul 14	287	Oct 27	84	Jul 7, 2002 [b]
Annual seven-day minimum	291	Dec 14	291	Dec 14	90	Aug 21, 2002
Maximum peak flow			16,300	May 8	107,000	Sep 7, 1996
Maximum peak stage			13.76	May 8	[c]30.84	Sep 7, 1996
Instantaneous low flow			277	Oct 24	[d]32	Sep 20, 1932
Annual runoff (cfsm)	0.710		0.972		0.954	
Annual runoff (inches)	9.67		13.19		12.96	
10 percent exceeds	1,280		1,970		2,090	
50 percent exceeds	582		624		601	
90 percent exceeds	315		319		236	

[a] Estimated.
[b] Also Aug. 25, 2002.
[c] From high-water mark in gage house.
[d] Result of regulation.