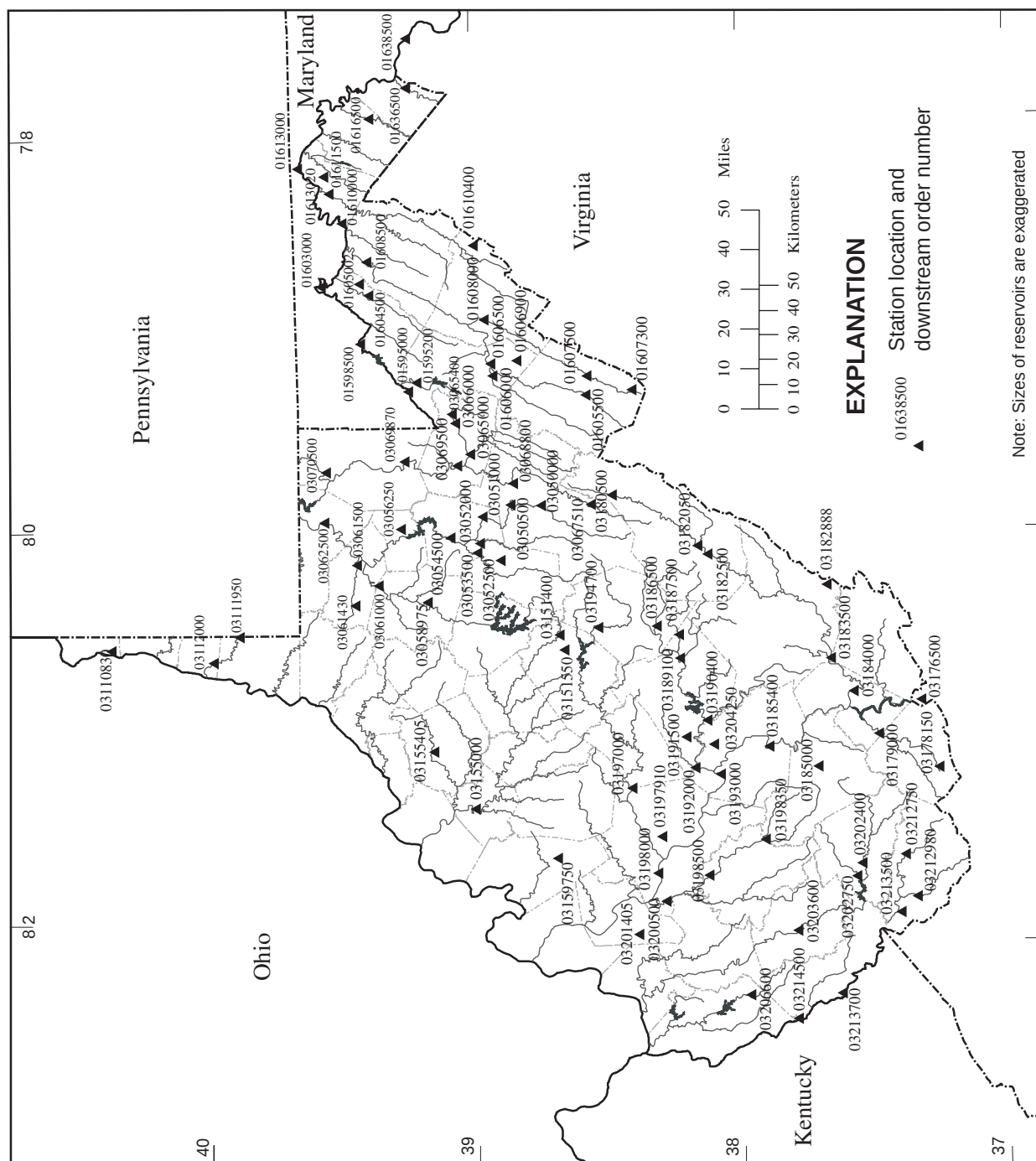


Figure 4.-- Map of West Virginia showing location of streamflow, detention reservoir, and water-quality stations.



SURFACE-WATER-DISCHARGE AND SURFACE-WATER-QUALITY RECORDS

Remark Codes

The following remark codes may appear with the water-quality data in this section:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

Dissolved Trace-Element Concentrations

NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Water-Quality Control Data

NOTE.--See information related to quality-control data beginning on page 24.

01595000 NORTH BRANCH POTOMAC RIVER AT STEYER, MD

LOCATION.--Lat 39°18'06.8", long 79°18'24.8", Garrett County, Hydrologic Unit 02070002, on left bank 0.3 mi southeast of Steyer, 0.4 mi downstream from Steyer Run, 2.0 mi northeast of Gorman, and at mile 81.8.

DRAINAGE AREA.--73.1 mi².

PERIOD OF RECORD.--July 1956 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 2,276.01 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges (ice effect), which are poor. U.S. Geological Survey 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.--Flood of Oct. 15, 1954, reached a stage of 13.0 ft, from floodmarks; discharge, 11,300 ft³/s, from rating curve extended above 3,000 ft³/s on basis of slope-area measurement at gage height of 10.30 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 12	0930	*3,180	*7.21	Jun 11	2200	2,310	6.27
Feb 6	1815	2,290	6.24				

Minimum discharge, 22 ft³/s, Sept. 4, 5.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	225	132	e200	254	e58	207	244	132	158	71	112	49
2	199	124	e180	489	e56	709	288	136	125	70	73	42
3	163	115	e170	676	e54	725	323	164	140	64	64	36
4	203	107	e160	502	e80	1,470	410	126	115	154	61	27
5	198	151	e150	603	e110	827	304	118	124	172	85	26
6	164	248	e140	480	1,440	1,490	287	109	116	91	70	28
7	141	239	e135	344	1,210	830	416	105	98	81	61	33
8	133	190	130	315	511	594	501	111	88	76	57	247
9	124	175	125	262	336	420	407	101	82	68	53	293
10	118	164	147	e210	e250	339	307	94	79	65	50	152
11	104	157	524	e180	e190	292	256	91	497	63	49	102
12	99	1,830	285	e150	e160	277	342	111	843	71	79	86
13	101	795	226	e140	e140	226	583	135	301	98	102	73
14	107	440	211	e130	e130	214	566	98	204	81	65	60
15	254	319	186	e120	e120	218	390	90	160	76	54	49
16	166	266	179	e110	e110	243	303	82	182	64	53	44
17	142	230	e170	e105	e100	271	253	77	261	60	43	50
18	162	197	e160	e100	e100	256	215	74	375	60	46	216
19	135	836	e150	e96	124	437	183	263	248	76	60	98
20	125	648	e150	e92	150	403	152	150	190	59	51	73
21	118	381	142	e88	427	871	130	138	149	54	81	67
22	103	302	142	e84	261	461	125	444	138	52	78	53
23	105	265	268	e80	218	340	133	194	137	52	58	51
24	110	248	636	e76	208	289	128	144	110	49	52	52
25	105	232	431	e72	187	256	143	120	102	45	51	59
26	99	196	313	e70	167	217	412	129	116	70	55	59
27	139	168	268	e68	154	197	294	134	97	198	52	59
28	160	219	241	e66	149	189	215	385	85	102	46	117
29	156	270	227	e64	165	160	175	219	85	74	46	123
30	159	226	342	e62	---	154	152	150	76	65	54	83
31	137	---	286	e60	---	163	---	147	---	85	60	---
TOTAL	4,454	9,870	7,074	6,148	7,365	13,745	8,637	4,571	5,481	2,466	1,921	2,507
MEAN	144	329	228	198	254	443	288	147	183	79.5	62.0	83.6
MAX	254	1,830	636	676	1,440	1,490	583	444	843	198	112	293
MIN	99	107	125	60	54	154	125	74	76	45	43	26
CFSM	1.97	4.50	3.12	2.71	3.47	6.07	3.94	2.02	2.50	1.09	0.85	1.14
IN.	2.27	5.02	3.60	3.13	3.75	6.99	4.40	2.33	2.79	1.25	0.98	1.28

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2004, BY WATER YEAR (WY)

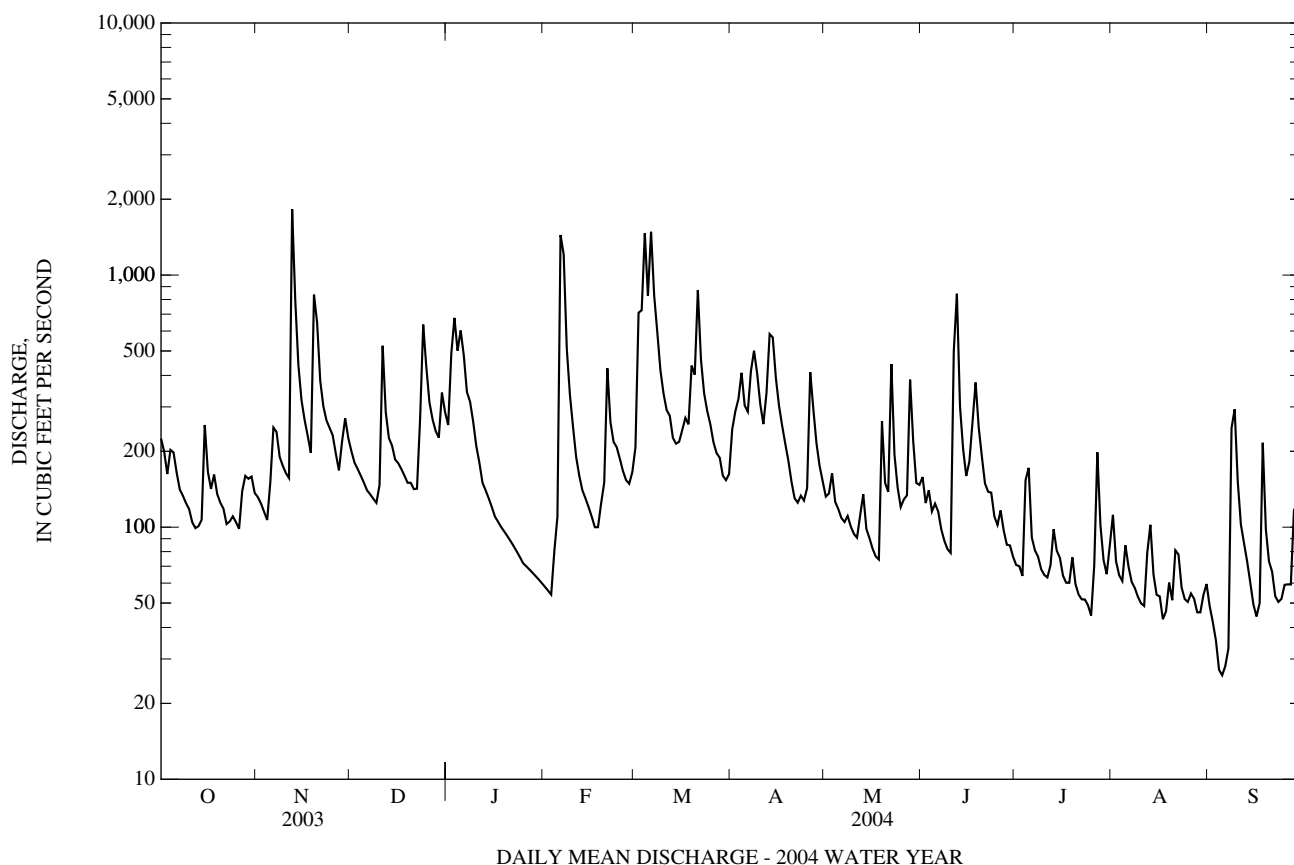
	72.2	139	219	230	263	344	277	200	123	102	80.3	64.6
MEAN												
MAX	316	588	527	569	604	885	573	540	442	340	355	492
(WY)	(1977)	(1986)	(1973)	(1974)	(1994)	(1963)	(1958)	(1996)	(1981)	(1978)	(1996)	(2003)
MIN	12.8	22.2	46.1	41.8	65.9	112	78.2	62.5	15.5	14.3	6.72	5.99
(WY)	(1964)	(2002)	(1999)	(1977)	(1993)	(1990)	(1995)	(1965)	(1965)	(1965)	(1965)	(1959)

01595000 NORTH BRANCH POTOMAC RIVER AT STEYER, MD—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1956 - 2004	
ANNUAL TOTAL	101,247		74,239		175	
ANNUAL MEAN	277		203		297	
HIGHEST ANNUAL MEAN					115	
LOWEST ANNUAL MEAN					196	
HIGHEST DAILY MEAN	3,180	Sep 19	1,830	Nov 12	4,530	Feb 9, 1994
LOWEST DAILY MEAN	55	Jul 27	26	Sep 5	3.1	Sep 9, 1965
ANNUAL SEVEN-DAY MINIMUM	60	Aug 2	34	Sep 1	3.6	Sep 23, 1959
MAXIMUM PEAK FLOW			3,180	Nov 12	(a)11,500	Nov 5, 1985
MAXIMUM PEAK STAGE			7.21	Nov 12	13.14	Nov 5, 1985
INSTANTANEOUS LOW FLOW			22	(b)	2.7	Aug 18, 1999
ANNUAL RUNOFF (CFSM)	3.79		2.77		2.40	
ANNUAL RUNOFF (INCHES)	51.52		37.78		32.59	
10 PERCENT EXCEEDS	574		411		386	
50 PERCENT EXCEEDS	189		140		106	
90 PERCENT EXCEEDS	95		58		22	

a From rating curve extended above 3,000 ft³/s on basis of slope-area measurement at gage height of 10.30 ft.

b Sept. 4, 5.



01595200 STONY RIVER NEAR MOUNT STORM, WV

LOCATION.--Lat 39°16'10", long 79°15'45", NAD 27, Grant County, Hydrologic Unit 02070002, on left bank 100 ft downstream from highway bridge on U.S. Highway 50, 1.0 mi west of Mount Storm, and at mile 6.4.

DRAINAGE AREA.--48.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

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

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 2,554.54 ft above NGVD 29.

REMARKS.--Water-discharge records good except those for period of estimated daily discharge (ice effect), which are poor. Flow regulated by Stony River Reservoir, 14.0 mi upstream from station until use of reservoir discontinued June 1987. Regulation since 1963 by Virginia Electric and Power Company dam (Mount Storm Lake), 4.0 mi upstream from station.

PEAK DISCHARGE FOR CURRENT YEAR.--Maximum discharge, 1,850 ft³/s, Sept. 8, gage height, 6.88 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	28	99	69	e17	105	132	37	109	15	74	12
2	84	21	33	87	e16	307	149	42	90	13	48	9.3
3	69	30	29	215	e16	450	200	152	81	28	36	8.7
4	39	52	39	343	e15	950	234	207	50	99	26	7.8
5	56	58	49	349	e15	744	199	157	26	96	29	6.7
6	49	103	63	254	316	921	130	144	23	71	22	6.8
7	36	121	71	174	390	654	112	37	20	59	21	7.7
8	35	114	65	143	394	426	226	179	18	47	19	502
9	29	96	63	128	206	347	343	129	17	32	17	775
10	29	67	105	87	93	308	278	25	17	19	15	351
11	35	33	349	40	95	209	217	21	178	21	83	271
12	35	628	267	43	84	118	317	20	356	27	40	198
13	35	468	198	55	90	91	682	76	284	33	23	105
14	28	337	162	63	85	127	577	163	207	39	16	77
15	111	255	130	72	79	99	292	131	84	34	14	66
16	140	156	113	77	89	120	170	102	60	22	14	173
17	101	136	111	62	82	98	164	69	73	15	13	330
18	114	119	112	74	63	96	147	19	79	16	13	694
19	92	575	104	91	53	172	255	128	35	14	16	300
20	53	597	103	39	37	250	192	192	52	12	13	141
21	33	411	98	e33	125	843	165	164	44	13	13	221
22	29	218	83	e30	139	261	98	246	25	15	12	139
23	39	139	131	e27	127	220	37	145	96	21	9.4	41
24	49	135	244	e24	111	191	36	39	41	17	13	43
25	19	129	244	e22	104	176	54	34	22	18	13	40
26	19	114	200	e21	97	163	312	53	21	60	12	43
27	75	103	152	e21	82	143	326	91	17	219	11	50
28	118	99	128	e20	77	141	231	277	18	110	8.6	238
29	83	144	97	e19	83	132	127	286	17	25	7.6	379
30	52	122	75	e18	---	115	41	201	15	54	8.1	186
31	45	---	68	e18	---	113	---	130	---	83	12	---
TOTAL	1,828	5,608	3,785	2,718	3,180	9,090	6,443	3,696	2,175	1,347	671.7	5,422.0
MEAN	59.0	187	122	87.7	110	293	215	119	72.5	43.5	21.7	181
MAX	140	628	349	349	394	950	682	286	356	219	83	775
MIN	19	21	29	18	15	91	36	19	15	12	7.6	6.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

	45.2	86.2	105	112	141	221	160	122	70.3	48.0	35.7	43.6
MEAN	234	669	301	267	361	537	371	271	237	205	200	314
(WY)	(1977)	(1986)	(1973)	(1996)	(1994)	(1963)	(1987)	(1988)	(1981)	(1978)	(1996)	(1996)
MIN	3.36	5.53	8.36	20.9	21.3	46.9	51.8	28.3	9.91	4.36	3.28	3.89
(WY)	(1992)	(1999)	(1999)	(1981)	(1978)	(1990)	(1995)	(1964)	(1964)	(1968)	(1999)	(1985)

01595200 STONY RIVER NEAR MOUNT STORM, WV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 - 2004	
ANNUAL TOTAL	57,771		45,963.7		99.0	
ANNUAL MEAN	158		126		166	
HIGHEST ANNUAL MEAN					42.0	
LOWEST ANNUAL MEAN					9,880	
HIGHEST DAILY MEAN	2,190	Sep 19	950	Mar 4	1.3	Nov 5, 1985
LOWEST DAILY MEAN	(e)10	(a)	6.7	Sep 5	1.7	Aug 28, 1988
ANNUAL SEVEN-DAY MINIMUM	11	Jan 23	8.4	Sep 1	(b)14,000	Nov 5, 1985
MAXIMUM PEAK FLOW			1,850	Sep 8	(c)16.41	Nov 5, 1985
MAXIMUM PEAK STAGE			6.88	Sep 8	1.3	Aug 28, 1988
INSTANTANEOUS LOW FLOW			6.0	Sep 6	233	(d)
10 PERCENT EXCEEDS	395		294		48	
50 PERCENT EXCEEDS	105		83		8.4	
90 PERCENT EXCEEDS	21		16			

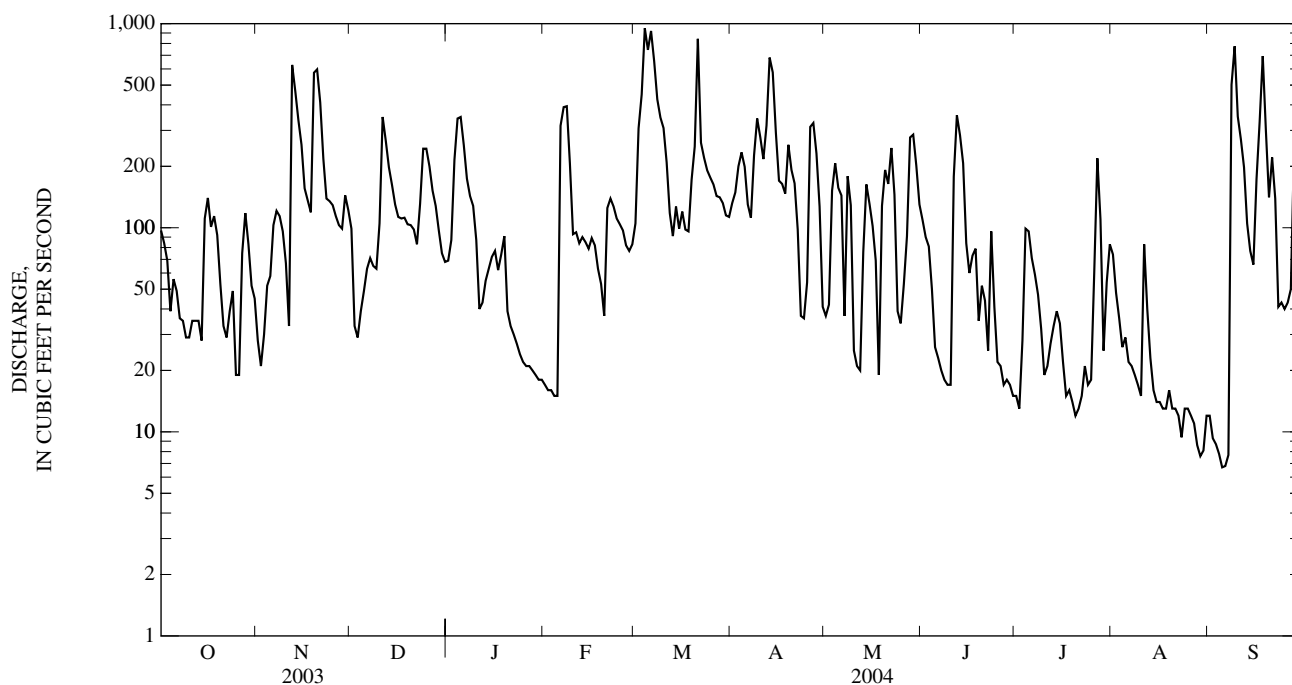
a Jan. 27, 28.

b From rating curve extended above 7,500 ft³/s on basis of slope-area measurement of peak flow.

c From floodmarks.

d Aug. 22, 23, 28, 29, 1988.

e Estimated.



01595200 STONY RIVER NEAR MOUNT STORM, WV—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1961 to March 1974, September 1974 to September 1995, October 1996 to current year.

INSTRUMENTATION.--Temperature recorder (continuous ethyl alcohol-actuated thermograph) December 1961 to October 2001. Satellite telemetry installed Oct. 22, 2001.

REMARKS.--Upstream reservoir regulation defined on the discharge manuscript.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.3°C, Aug. 3, 2002; minimum, -0.5°C, Jan. 16-20, 1999.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.2°C, Sept. 16; minimum, 0.9°C, Dec. 3, Jan. 17.

 TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.9	15.2	8.0	5.5	1.1	9.1	10.8	18.5	21.4	21.9	21.7	22.5
2	13.7	15.7	4.7	6.0	1.1	7.0	9.6	17.7	21.0	22.8	22.4	21.1
3	13.8	14.9	2.5	11.1	1.1	12.1	10.8	17.1	19.9	22.6	23.0	21.9
4	12.1	15.1	3.1	12.8	2.5	12.2	9.4	18.8	18.2	22.0	23.9	21.6
5	12.5	16.1	3.6	12.8	3.1	14.9	10.7	18.4	15.4	22.8	20.9	21.0
6	14.6	16.6	4.2	9.6	4.2	13.2	10.5	20.7	17.2	24.7	18.6	19.4
7	13.8	16.5	4.4	5.4	5.7	14.3	11.3	20.6	20.1	23.8	19.0	21.3
8	15.1	13.0	5.5	5.4	7.2	11.3	13.5	21.4	20.9	23.1	19.3	24.9
9	15.1	11.4	7.1	6.3	7.0	12.1	14.7	22.4	23.4	21.9	21.4	27.6
10	16.0	10.7	7.2	4.4	4.9	12.4	15.7	22.3	20.5	21.3	22.5	27.3
11	16.1	10.7	7.4	1.3	4.6	11.8	13.3	19.4	18.6	22.5	26.3	27.9
12	16.5	16.0	8.0	3.2	5.8	9.3	11.7	19.9	22.2	22.6	24.9	27.0
13	16.1	15.9	7.7	3.2	5.1	7.3	13.3	20.6	24.8	23.4	18.5	25.2
14	16.2	12.4	6.7	3.9	4.6	11.2	13.4	23.3	25.1	23.4	18.3	22.8
15	13.7	13.2	6.3	3.8	4.9	10.7	13.8	23.0	23.6	20.6	18.8	23.3
16	16.4	13.2	7.1	1.5	4.4	7.9	15.8	22.3	21.4	21.2	20.7	28.2
17	15.0	13.6	6.7	4.2	5.2	7.8	17.2	21.7	23.3	19.0	20.8	27.4
18	14.8	12.9	4.6	4.5	4.7	9.1	18.8	21.6	23.1	20.6	21.0	26.1
19	14.9	13.9	5.1	3.0	5.6	9.4	18.0	19.7	20.9	21.8	22.6	25.4
20	14.2	14.4	5.0	1.7	6.0	12.0	19.0	23.8	19.8	22.2	23.8	23.0
21	14.8	15.0	4.6	1.1	4.0	12.3	19.4	23.2	20.8	23.5	20.8	26.3
22	12.9	14.2	6.0	1.1	6.0	11.8	17.3	23.3	20.8	20.8	22.1	24.7
23	8.3	13.5	6.7	1.1	7.7	11.2	16.5	23.9	23.9	22.5	22.3	20.4
24	10.2	13.4	6.8	1.0	7.1	11.7	18.7	22.8	24.1	22.2	22.6	21.2
25	11.0	9.9	6.4	1.0	7.1	14.0	17.2	21.4	21.3	23.1	23.0	21.0
26	12.5	10.4	6.2	1.0	6.6	16.2	15.4	19.5	21.5	21.1	23.4	20.2
27	12.0	11.4	6.5	1.1	7.4	14.4	16.2	21.6	21.3	24.2	24.1	20.2
28	13.3	12.4	7.0	1.0	7.7	15.4	17.0	22.5	19.7	25.7	24.7	23.4
29	13.2	7.8	7.7	1.1	8.0	16.1	18.8	24.4	21.0	23.8	24.3	25.7
30	11.8	8.1	5.4	1.1	---	13.1	18.9	23.9	21.6	22.6	24.7	24.8
31	14.3	---	3.7	1.0	---	11.2	---	22.2	---	20.2	23.5	---
MEAN	13.9	13.2	5.9	3.9	5.2	11.7	14.9	21.4	21.2	22.4	22.1	23.8
MAX	16.9	16.6	8.0	12.8	8.0	16.2	19.4	24.4	25.1	25.7	26.3	28.2
MIN	8.3	7.8	2.5	1.0	1.1	7.0	9.4	17.1	15.4	19.0	18.3	19.4

01595200 STONY RIVER NEAR MOUNT STORM, WV—Continued

 TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.6	11.1	4.7	3.5	1.0	5.6	4.6	14.2	18.7	15.8	18.1	17.1
2	12.0	11.8	1.5	4.5	1.0	4.9	3.7	13.4	17.6	16.7	18.7	16.4
3	10.7	11.4	0.9	5.8	1.0	6.1	8.9	11.5	17.6	17.5	19.0	16.2
4	10.1	11.5	1.5	11.1	1.1	8.4	7.5	14.8	15.4	18.1	19.4	17.4
5	9.7	13.2	2.5	9.6	1.0	12.2	6.9	15.0	14.0	18.6	18.4	16.6
6	11.6	15.2	2.8	5.4	1.2	12.1	6.8	15.5	13.6	20.7	15.4	17.6
7	10.1	13.0	3.5	3.9	3.0	11.3	5.7	15.1	13.6	21.4	14.4	17.6
8	11.3	11.4	2.9	3.8	5.6	9.2	6.5	15.1	14.7	20.2	14.5	18.1
9	12.2	9.4	5.2	4.4	3.5	9.4	12.6	18.5	16.9	19.7	15.0	24.9
10	13.5	8.0	4.6	1.1	3.1	9.9	12.6	15.6	18.6	18.1	16.6	24.1
11	14.5	7.4	4.8	1.0	2.5	8.8	11.7	16.4	15.1	18.5	18.3	23.7
12	13.5	10.7	7.3	1.3	2.9	4.6	8.7	16.1	14.9	19.3	18.5	22.6
13	13.5	11.9	6.7	2.2	3.2	3.0	11.5	15.0	22.1	19.7	17.1	21.3
14	13.5	11.2	4.5	1.8	2.5	5.6	12.3	20.0	22.9	20.0	15.2	20.7
15	11.5	11.2	4.8	1.5	2.7	7.1	10.0	20.5	21.2	18.7	14.1	20.9
16	13.2	12.4	4.5	1.0	1.4	3.5	8.6	19.6	20.0	17.4	16.5	19.7
17	13.2	11.8	4.1	0.9	2.9	5.0	11.4	18.4	19.3	16.0	15.7	24.9
18	12.2	11.3	3.6	2.6	2.4	5.0	12.9	17.8	20.5	16.7	15.6	23.6
19	13.0	11.9	4.3	1.7	2.6	6.4	14.8	16.1	16.8	16.8	18.0	18.5
20	11.2	13.7	3.5	1.0	2.6	7.4	14.9	19.7	14.4	16.7	19.2	16.7
21	12.2	13.8	3.2	1.0	2.1	8.1	14.9	18.8	15.2	16.9	17.9	21.2
22	8.3	11.4	4.3	1.0	2.4	4.9	15.1	17.8	17.7	18.0	16.2	20.4
23	7.2	10.8	5.2	1.0	4.2	7.3	13.9	20.2	17.8	18.3	15.4	16.7
24	6.7	9.2	5.5	1.0	5.9	8.2	13.0	19.0	19.2	18.5	16.2	17.6
25	6.7	8.1	5.3	1.0	4.7	10.4	12.8	17.4	18.4	17.0	17.1	18.1
26	9.8	8.8	5.0	1.0	4.4	11.7	14.4	17.6	17.6	19.0	18.0	18.9
27	10.0	9.3	4.7	1.0	4.6	12.9	12.9	18.0	15.1	19.0	18.4	19.0
28	9.6	7.8	4.8	1.0	3.7	12.4	11.7	18.9	15.0	21.7	19.2	18.4
29	9.8	6.6	5.4	1.0	4.5	12.1	13.0	21.0	15.0	18.2	20.0	23.4
30	8.4	6.8	2.7	1.0	---	10.8	12.6	21.0	14.8	19.7	20.4	19.0
31	10.4	---	2.0	1.0	---	10.6	---	20.3	---	18.9	19.6	---
MEAN	11.0	10.7	4.1	2.6	2.9	8.2	10.9	17.4	17.1	18.4	17.3	19.7
MAX	14.5	15.2	7.3	11.1	5.9	12.9	15.1	21.0	22.9	21.7	20.4	24.9
MIN	6.7	6.6	0.9	0.9	1.0	3.0	3.7	11.5	13.6	15.8	14.1	16.2

01598500 NORTH BRANCH POTOMAC RIVER AT LUKE, MD

LOCATION.--Lat 39°28'45.1", long 79°03'54.0", Mineral County, W. Va., Hydrologic Unit 02070002, on right bank 0.2 mi downstream from Savage River, 0.5 mi northwest of Luke, and at mile 53.3.

DRAINAGE AREA.--406 mi².

PERIOD OF RECORD.--June 1899 to July 1906 (published as "at Piedmont, W. Va."), October 1949 to current year.

REVISED RECORDS.--WSP 192: 1899-1904. WSP 1432: 1905-6, drainage area at former site. WDR WV-97-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 944.22 ft above National Geodetic Vertical Datum of 1929. June 27, 1899, to July 15, 1906, nonrecording gage at bridge 1.1 mi downstream at datum about 35 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated prior to July 1981 by Stony River Reservoir 45 mi upstream from station, since December 1950 by Savage River Reservoir, 5 mi upstream from station (see station 01597500), and since July 1981 by Jennings Randolph Lake, 9 mi upstream from station. Some regulation at low flow by West Virginia Pulp and Paper Company at site used 1899-1906. U.S. Army Corps of Engineers satellite collection platform at station. Upper Potomac River Commission 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 FOR CURRENT YEAR.--Maximum discharge, 6,360 ft³/s, Mar. 7, gage height, 7.95 ft; minimum discharge, 211 ft³/s, Jan. 22.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	576	416	985	1,330	381	842	939	780	566	342	343	322
2	518	416	977	1,330	379	1,040	1,120	735	559	340	319	319
3	501	416	925	1,350	383	1,240	1,570	781	540	337	304	319
4	853	416	845	1,380	379	2,880	2,620	790	491	352	309	319
5	1,080	421	844	1,920	381	4,600	2,170	795	491	345	330	319
6	711	468	843	2,380	511	5,040	1,580	745	454	339	330	319
7	403	508	837	2,350	936	5,060	1,530	652	412	340	328	318
8	400	503	798	2,170	1,540	3,370	1,890	823	388	339	326	1,120
9	394	501	763	1,830	1,800	2,950	1,890	853	364	336	305	1,060
10	391	555	785	1,690	1,860	2,900	1,460	609	361	334	283	1,160
11	782	664	1,270	1,590	1,900	2,470	1,370	517	413	335	283	1,770
12	935	1,880	1,420	1,520	1,950	1,510	1,750	490	2,310	338	298	2,030
13	414	2,680	1,380	1,050	1,970	1,170	3,550	484	1,950	340	295	1,080
14	426	2,530	1,420	660	1,950	1,040	4,990	480	1,270	337	875	483
15	435	2,450	1,440	654	1,930	1,030	2,710	477	695	347	882	557
16	422	2,420	1,420	637	1,910	1,040	1,980	476	603	334	283	557
17	423	2,220	1,410	637	1,220	1,030	1,480	454	655	334	280	582
18	426	2,090	1,350	643	633	1,040	1,370	416	712	338	279	640
19	422	2,610	1,160	637	635	1,140	1,230	455	692	336	289	822
20	419	3,170	1,020	630	662	1,150	1,000	563	688	334	280	796
21	416	2,520	1,010	502	728	2,470	962	698	558	334	283	471
22	418	2,470	940	359	708	3,130	934	1,590	439	346	282	487
23	418	2,430	927	380	752	2,420	761	1,620	438	326	300	504
24	416	2,400	1,340	383	796	1,980	831	1,050	433	326	323	570
25	414	2,070	1,490	387	793	1,610	836	796	418	326	321	612
26	412	1,730	1,610	395	744	1,460	1,220	607	370	336	319	612
27	419	1,710	1,740	389	798	1,280	1,730	606	366	344	319	612
28	419	1,410	1,710	385	797	1,060	1,210	691	364	332	319	646
29	416	1,180	1,490	383	811	1,020	1,090	1,090	351	344	332	634
30	416	1,070	1,350	383	---	983	850	839	341	377	338	557
31	416	---	1,340	382	---	985	---	578	---	352	324	---
TOTAL	15,511	46,324	36,839	30,716	30,237	60,940	48,623	22,540	18,692	10,520	10,681	20,597
MEAN	500	1,544	1,188	991	1,043	1,966	1,621	727	623	339	345	687
MAX	1,080	3,170	1,740	2,380	1,970	5,060	4,990	1,620	2,310	377	882	2,030
MIN	391	416	763	359	379	842	761	416	341	326	279	318
CFSM	1.23	3.80	2.93	2.44	2.57	4.84	3.99	1.79	1.53	0.84	0.85	1.69
IN.	1.42	4.24	3.38	2.81	2.77	5.58	4.46	2.07	1.71	0.96	0.98	1.89

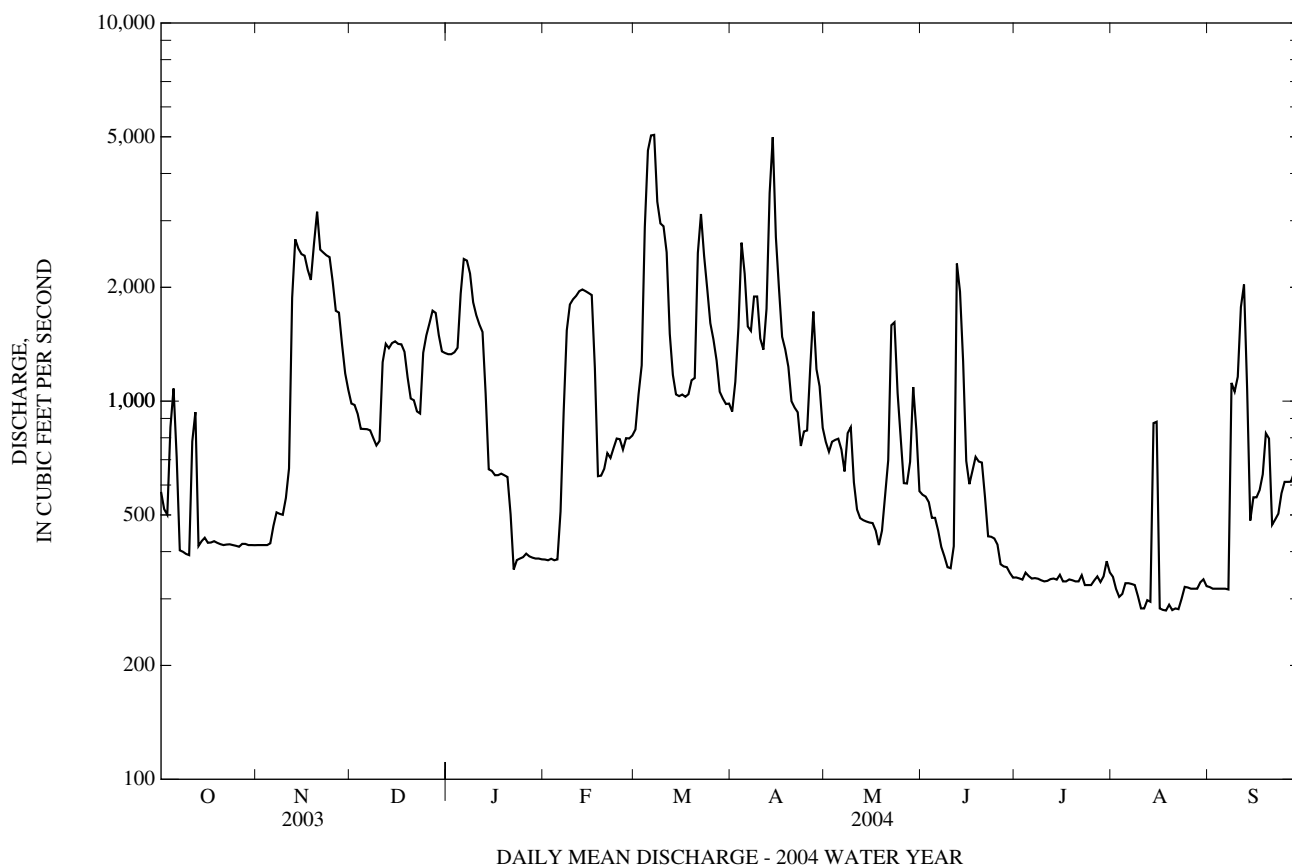
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 1906, 1950 - 2004, BY WATER YEAR (WY)

MEAN	333	472	803	893	1,073	1,542	1,214	913	556	358	327	327
MAX	1,423	2,806	2,536	2,368	2,487	3,414	3,098	2,484	1,918	1,294	1,525	2,404
(WY)	(1955)	(1986)	(1973)	(1996)	(1994)	(1963)	(1993)	(1996)	(2003)	(1990)	(1996)	(2003)
MIN	27.6	33.5	123	166	99.8	467	278	165	108	91.4	37.0	17.1
(WY)	(1905)	(1905)	(1999)	(1977)	(1905)	(1988)	(1995)	(1982)	(1969)	(1953)	(1904)	(1904)

01598500 NORTH BRANCH POTOMAC RIVER AT LUKE, MD—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1899 - 1906, 1950 - 2004	
ANNUAL TOTAL	483,645		352,220		735	
ANNUAL MEAN	1,325		962		736	
ANNUAL MEAN‡	1,344		966		1,342	1996
HIGHEST ANNUAL MEAN					412	1969
LOWEST ANNUAL MEAN					18,400	Aug 18, 1955
HIGHEST DAILY MEAN	8,000	May 11	5,060	Mar 7	6.0	Sep 4, 1904
LOWEST DAILY MEAN	276	Aug 24	279	Aug 18	11	Aug 29, 1904
ANNUAL SEVEN-DAY MINIMUM	301	Aug 21	282	Aug 16	(a)39,400	Oct 15, 1954
MAXIMUM PEAK FLOW			6,360	Mar 7	17.15	Oct 15, 1954
MAXIMUM PEAK STAGE			7.95	Mar 7	6.0	Sep 4, 1904
INSTANTANEOUS LOW FLOW			211	Jan 22	1.81	
ANNUAL RUNOFF (CFSM)	3.26		2.37		1.81	
ANNUAL RUNOFF (CFSM)‡	3.31		2.38		24.59	
ANNUAL RUNOFF (INCHES)	44.31		32.27		24.62	
ANNUAL RUNOFF (INCHES)‡	44.96		32.31		1,660	
10 PERCENT EXCEEDS	2,990		1,970		416	
50 PERCENT EXCEEDS	849		663		116	
90 PERCENT EXCEEDS	368		331			

‡ Adjusted for change in reservoir contents since October 1949.

a From rating curve extended above 25,000 ft³/s on basis of slope-area measurement of peak flow.

01603000 NORTH BRANCH POTOMAC RIVER NEAR CUMBERLAND, MD

LOCATION.--Lat 39°37'18.5", long 78°46'24.3", Allegany County, Hydrologic Unit 02070002, on left bank at downstream side of Wiley Ford Bridge, 2.0 mi south of Cumberland, 2.1 mi downstream from Wills Creek, and at mile 19.6.

DRAINAGE AREA.--877 mi².

PERIOD OF RECORD.--May 1929 to current year. Gage-height records collected at various sites about 2.0 mi upstream from September 1901 to December 1932 and thereafter at present site, are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 726: Drainage area. WSP 781: 1932(M). WDR WV-97-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 585.22 ft above National Geodetic Vertical Datum of 1929. Prior to June 18, 1929, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges (ice effect), which are poor. Prior to July 1981 some regulation at low flow by Stony River Reservoir, 79 mi upstream from station. Low-flow regulation since December 1950 by Savage River Reservoir, 39 mi upstream from station (see station 01597500). Flow regulated by Jennings Randolph Lake, 43 mi upstream from station since July 1981. Prior to July 1957, small amount of inflow from industrial wastes and sewage from city of Cumberland from water diverted from Evitts Creek, mouth of which is downstream from station. Diversion to Chesapeake and Ohio Canal prior to 1935. 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, 29.2 ft, June 1, 1889, discharge, about 89,000 ft³/s. Flood of Mar. 29, 1924, reached a stage of 28.4 ft, discharge, about 82,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,600 ft³/s, Sept. 9, gage height, 15.54 ft; minimum discharge, 396 ft³/s, Aug. 12, 18, 19.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,680	991	1,800	2,220	e720	2,220	2,200	1,690	799	471	1,140	455
2	1,430	966	1,730	2,220	e715	3,580	4,950	1,580	736	463	727	432
3	1,280	941	1,680	2,350	e720	5,750	4,880	1,750	729	455	585	425
4	1,260	914	1,510	2,640	e710	6,050	4,970	1,580	667	481	522	416
5	1,680	933	1,520	3,450	e710	8,270	4,290	1,520	650	511	509	410
6	1,550	1,060	1,540	4,330	e2,500	9,210	3,090	1,450	647	469	495	402
7	942	1,220	1,470	3,770	2,820	8,710	2,710	1,360	584	461	475	405
8	873	1,200	1,400	3,430	2,870	6,240	2,710	1,390	544	466	458	3,050
9	826	1,170	1,320	2,870	2,790	4,840	3,020	1,350	526	447	448	10,800
10	795	1,130	1,340	2,580	2,780	4,360	2,380	1,260	519	437	416	3,480
11	833	1,210	5,780	2,300	2,800	4,000	2,180	1,000	623	435	402	2,750
12	1,400	3,520	4,470	e2,200	2,760	2,880	2,790	889	2,310	488	436	2,720
13	984	4,810	3,300	2,130	2,770	2,270	7,190	939	2,270	500	581	2,260
14	850	4,100	2,940	1,380	2,720	1,990	10,200	878	2,030	471	509	873
15	1,280	3,590	2,720	1,330	2,640	1,900	5,540	837	1,070	449	1,390	947
16	1,030	3,360	2,490	1,130	2,500	1,880	4,070	800	872	448	525	889
17	961	3,140	2,430	1,080	2,330	1,850	2,970	754	772	431	423	1,620
18	1,000	2,800	2,350	1,200	1,280	1,830	2,590	764	951	442	404	8,290
19	958	7,370	2,150	1,180	1,310	2,740	2,330	1,810	871	455	405	3,290
20	924	9,510	1,850	1,080	1,700	2,570	2,000	1,520	836	448	408	2,370
21	902	5,340	1,740	971	2,520	4,600	1,840	1,460	805	431	414	1,560
22	903	4,280	1,740	802	2,610	5,570	1,740	2,110	605	438	447	1,160
23	905	3,780	2,120	682	2,180	4,020	1,670	2,470	588	474	413	1,010
24	869	3,510	3,840	706	2,190	3,420	1,390	1,720	573	431	421	901
25	826	3,280	4,550	730	2,070	2,730	1,490	1,450	627	423	425	961
26	807	2,620	3,560	739	1,950	2,480	2,270	1,200	650	444	422	883
27	975	2,490	3,250	e740	1,830	2,240	3,310	1,060	531	684	416	848
28	1,210	2,390	2,950	e735	1,860	1,950	2,510	975	504	605	416	1,200
29	1,160	2,130	2,710	e730	2,000	1,790	2,220	1,190	497	499	451	1,430
30	1,120	1,980	2,430	e725	---	1,690	1,860	1,340	483	999	636	1,060
31	1,040	---	2,310	e720	---	1,720	---	814	---	1,840	507	---
TOTAL	33,253	85,735	76,990	53,150	59,355	115,350	97,360	40,910	24,869	16,496	16,226	57,297
MEAN	1,073	2,858	2,484	1,715	2,047	3,721	3,245	1,320	829	532	523	1,910
MAX	1,680	9,510	5,780	4,330	2,870	9,210	10,200	2,470	2,310	1,840	1,390	10,800
MIN	795	914	1,320	682	710	1,690	1,390	754	483	423	402	402
CFSM	1.22	3.26	2.83	1.95	2.33	4.24	3.70	1.50	0.95	0.61	0.60	2.18
IN.	1.41	3.64	3.27	2.25	2.52	4.89	4.13	1.74	1.05	0.70	0.69	2.43

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2004, BY WATER YEAR (WY)

	594	810	1,294	1,554	1,979	2,901	2,370	1,748	942	541	470	499
MAX	3,791	5,350	4,652	5,115	4,410	8,763	5,866	4,070	3,613	2,270	2,152	4,117
(WY)	(1943)	(1986)	(1973)	(1937)	(1998)	(1936)	(1993)	(1996)	(2003)	(1989)	(1996)	(1996)
MIN	28.9	44.8	134	269	393	789	705	374	209	89.7	57.7	40.3
(WY)	(1931)	(1931)	(1931)	(1940)	(1934)	(1990)	(1995)	(1934)	(1965)	(1930)	(1930)	(1932)

01603000 NORTH BRANCH POTOMAC RIVER NEAR CUMBERLAND, MD—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1929 - 2004	
ANNUAL TOTAL	887,798		676,991		1,306	
ANNUAL MEAN	2,432		1,850		2,390	
HIGHEST ANNUAL MEAN					632	
LOWEST ANNUAL MEAN					1969	
HIGHEST DAILY MEAN	12,200	May 11	10,800	Sep 9	47,400	Mar 18, 1936
LOWEST DAILY MEAN	387	Aug 25	402	(a)	13	(b)
ANNUAL SEVEN-DAY MINIMUM	441	Aug 20	416	Aug 18	16	Sep 20, 1932
MAXIMUM PEAK FLOW			19,600	Sep 9	(c)88,200	Mar 17, 1936
MAXIMUM PEAK STAGE			15.54	Sep 9	29.10	Mar 17, 1936
INSTANTANEOUS LOW FLOW			396	(d)	12	Sep 22, 1932
ANNUAL RUNOFF (CFSM)	2.77		2.11		1.49	
ANNUAL RUNOFF (CFSM)‡	2.80		2.11		1.23	
ANNUAL RUNOFF (INCHES)	37.66		28.72		20.24	
ANNUAL RUNOFF (INCHES)‡	37.96		28.70		20.23	
10 PERCENT EXCEEDS	5,510		3,580		3,030	
50 PERCENT EXCEEDS	1,670		1,340		689	
90 PERCENT EXCEEDS	589		454		180	

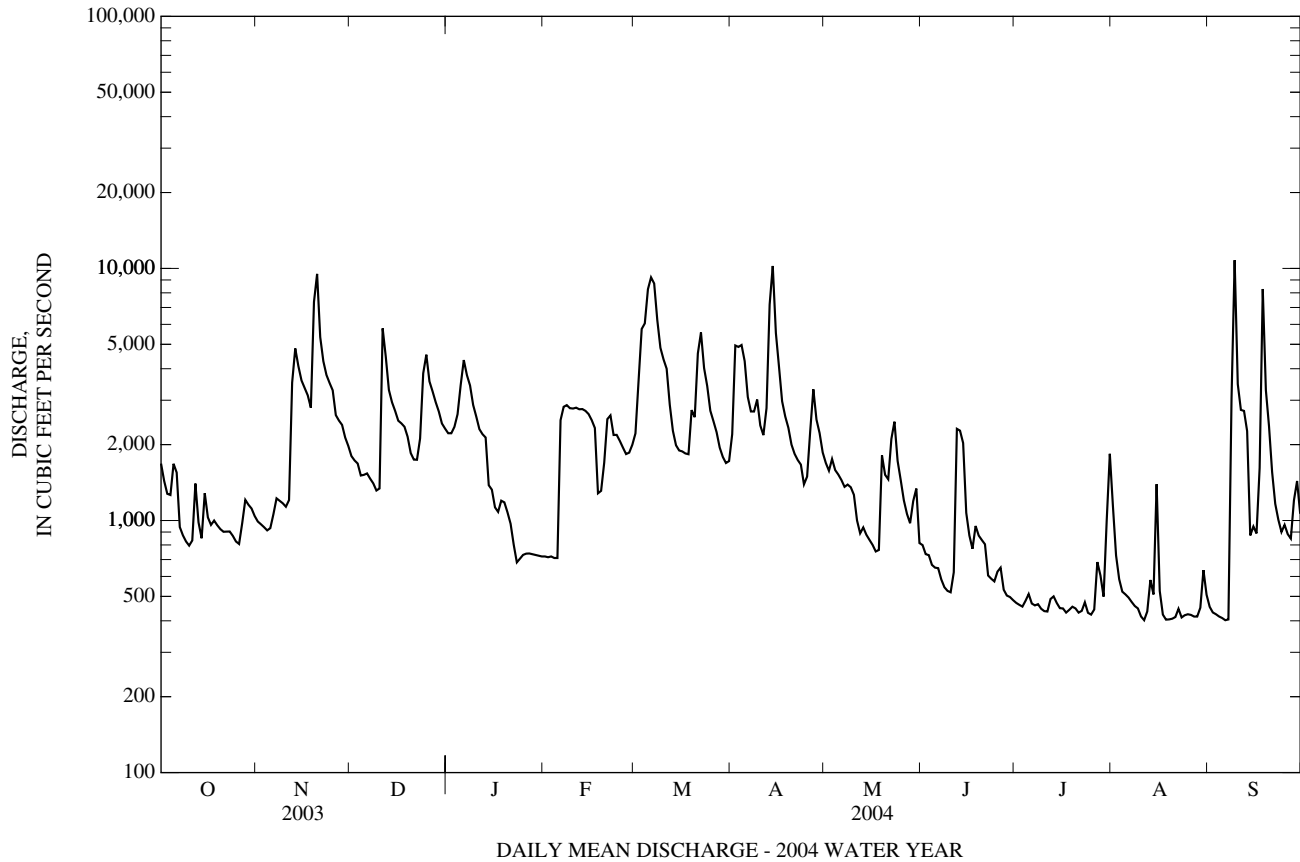
‡ Adjusted for change in reservoir contents since October 1949.

a Aug. 11, Sept. 6.

b Sept. 21-24, 1932.

c From rating curve extended above 33,000 ft³/s on basis of slope-area measurement of peak flow.

d Aug. 12, 18, 19.



01604500 PATTERSON CREEK NEAR HEADSVILLE, WV

LOCATION.--Lat 39°26'35", long 78°49'20", NAD 27, Mineral County, Hydrologic Unit 02070002, on right bank 100 ft downstream from Hazel Run, 1.0 mi downstream from Cabin Run, 4.0 mi northeast of Headsville, 8.0 mi east of Keyser, and at mile 13.0.

DRAINAGE AREA.--211 mi².

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

REVISED RECORDS.--WSP 951: 1939-40. WDR WV-97-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 624.90 ft above NGVD 29 (levels by U.S. Army Corps of Engineers). Prior to Oct. 11, 1946, nonrecording gage on bridge 1.0 mi upstream at datum 6.14 ft higher. Oct. 11-23, 1946, nonrecording gage at present site and datum.

REMARKS.--Records good except those for periods of estimated daily discharges (ice effect), which are poor. The flow from 115 mi² upstream from station is partially controlled, but not diverted, by several floodwater detention reservoirs with a total combined detention capacity of 19,887 acre-ft.

PEAK DISCHARGE FOR CURRENT YEAR.--Maximum discharge, 2,890 ft³/s, Feb. 6, gage height, (a) 9.03 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	258	79	198	250	e61	435	231	321	71	34	47	15
2	211	73	171	228	e58	563	348	286	65	33	41	14
3	167	68	153	211	e55	574	420	292	59	31	36	13
4	136	64	140	205	e52	568	389	248	55	32	31	13
5	112	67	142	203	66	543	339	214	56	79	28	12
6	95	82	146	193	898	727	302	187	57	67	26	12
7	84	95	141	170	1,600	638	277	165	54	52	23	13
8	77	99	136	167	953	593	259	151	49	46	21	184
9	72	92	133	149	591	576	251	136	45	40	20	773
10	69	85	144	136	553	538	221	121	42	35	19	381
11	65	80	1,200	125	567	422	198	108	57	33	18	260
12	62	823	823	128	540	360	338	100	402	31	18	180
13	58	753	590	125	528	314	1,510	93	274	35	25	122
14	60	574	554	118	528	281	1,680	88	218	32	25	82
15	103	488	507	114	475	259	936	106	172	29	22	63
16	88	411	417	95	393	248	706	114	144	28	20	51
17	77	351	385	91	341	250	621	102	139	25	19	51
18	77	297	367	97	302	259	561	92	118	26	18	256
19	73	730	332	91	307	579	530	126	95	27	19	212
20	68	1,050	294	82	492	572	514	149	78	26	20	142
21	64	647	260	e67	875	624	439	133	66	24	32	101
22	61	566	250	e62	833	583	360	136	60	23	31	77
23	57	499	466	e58	651	553	320	131	57	23	25	62
24	55	427	634	e55	612	450	274	114	51	25	22	53
25	52	378	594	e53	591	371	278	96	47	24	20	46
26	50	329	544	e51	574	326	901	85	60	23	18	41
27	72	286	467	83	553	292	719	83	48	58	16	38
28	123	264	398	84	457	265	554	82	42	79	16	238
29	115	256	356	79	405	238	511	88	39	61	16	648
30	100	224	322	75	---	213	394	77	37	45	17	394
31	88	---	279	64	---	210	---	71	---	42	15	---
TOTAL	2,849	10,237	11,543	3,709	14,911	13,424	15,381	4,295	2,757	1,168	724	4,547
MEAN	91.9	341	372	120	514	433	513	139	91.9	37.7	23.4	152
MAX	258	1,050	1,200	250	1,600	727	1,680	321	402	79	47	773
MIN	50	64	133	51	52	210	198	71	37	23	15	12
CFSM	0.44	1.62	1.76	0.57	2.44	2.05	2.43	0.66	0.44	0.18	0.11	0.72
IN.	0.50	1.80	2.04	0.65	2.63	2.37	2.71	0.76	0.49	0.21	0.13	0.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	71.9	88.3	164	205	305	430	318	224	110	59.8	57.8	56.4
MAX	745	901	825	908	893	1,346	1,085	763	459	415	586	767
(WY)	(1943)	(1986)	(1973)	(1996)	(1994)	(1963)	(1993)	(1988)	(2003)	(1989)	(1996)	(1996)
MIN	2.24	4.39	9.70	18.1	22.2	58.3	54.1	21.2	8.38	3.14	5.20	2.80
(WY)	(1992)	(1992)	(1944)	(2002)	(2002)	(1990)	(1969)	(1969)	(1999)	(1999)	(1966)	(1991)

01604500 PATTERSON CREEK NEAR HEADSVILLE, WV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	129,894		85,545		174	
ANNUAL MEAN	356		234		387	
HIGHEST ANNUAL MEAN					35.1	
LOWEST ANNUAL MEAN					11,100	
HIGHEST DAILY MEAN	3,860	Sep 19	1,680	Apr 14	11,100	Oct 15, 1942
LOWEST DAILY MEAN	32	Feb 17	12	(b)	0.48	Aug 23, 1999
ANNUAL SEVEN-DAY MINIMUM	45	Aug 22	13	Sep 1	0.87	Aug 17, 1999
MAXIMUM PEAK FLOW			2,890	Feb 6	(c)16,000	Aug 19, 1955
MAXIMUM PEAK STAGE			9.03	Feb 6	12.20	Aug 19, 1955
INSTANTANEOUS LOW FLOW			12	(d)	0.45	(f)
ANNUAL RUNOFF (CFSM)	1.69		1.11		0.823	
ANNUAL RUNOFF (INCHES)	22.90		15.08		11.18	
10 PERCENT EXCEEDS	793		574		450	
50 PERCENT EXCEEDS	239		124		60	
90 PERCENT EXCEEDS	61		25		10	

a From float-tape indicator.

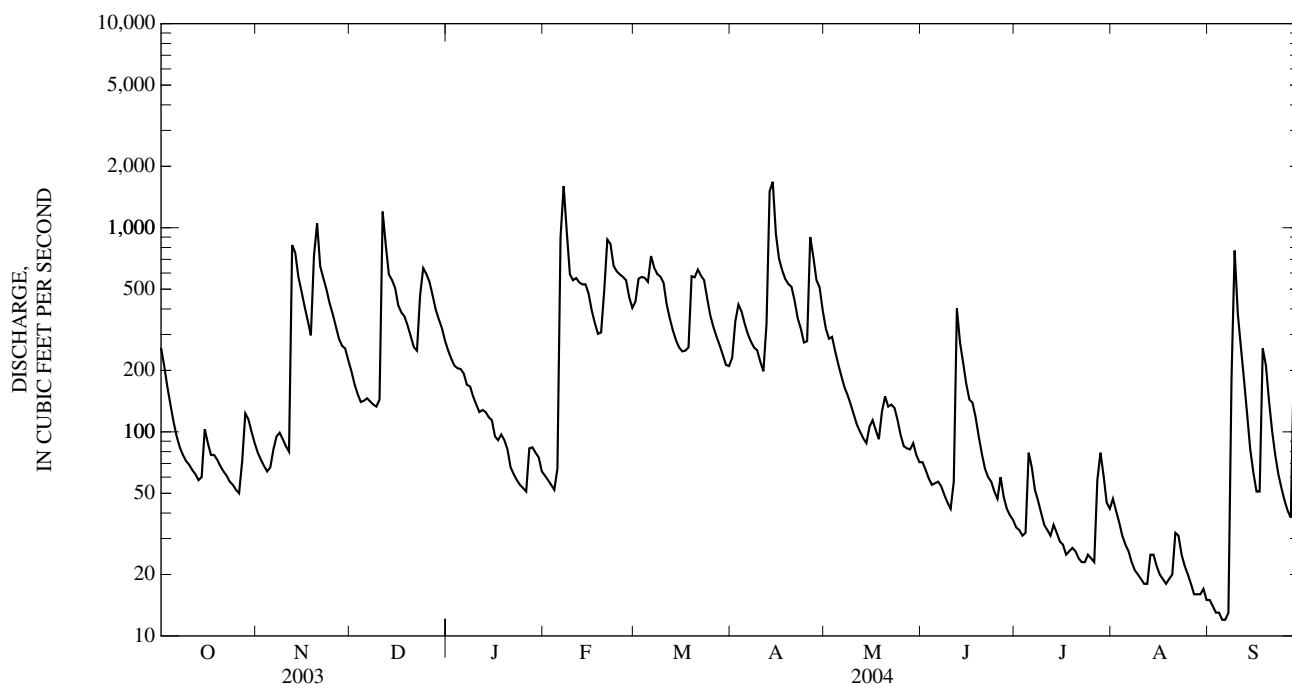
b Sept. 5, 6.

c From rating curve extended above 4,900 ft³/s on basis of contracted-opening measurement of peak flow.

d Sept. 5-7.

e Estimated

f Aug. 23, 24, 1999.



POTOMAC RIVER BASIN

01605002 PAINTER RUN NEAR FORT ASHBY, WV
(Detention Reservoir)

LOCATION.--Lat 39°29'08", long 78°45'37", NAD 27, Mineral County, Hydrologic Unit 02070002.

DAM NAME.--Patterson Creek No. 4.

SURFACE AREA.--8 acres.

DRAINAGE AREA.--7.73 mi².

PERIOD OF RECORD.--June 2002 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 700.0 ft above NGVD 29.

REMARKS.-- Normal Pool = 20.6 ft (Normal Storage=106 acre-ft)

Top of Riser = 31.1 ft

Emergency Spillway = 38.7 ft

Top of Dam = 47.6 ft

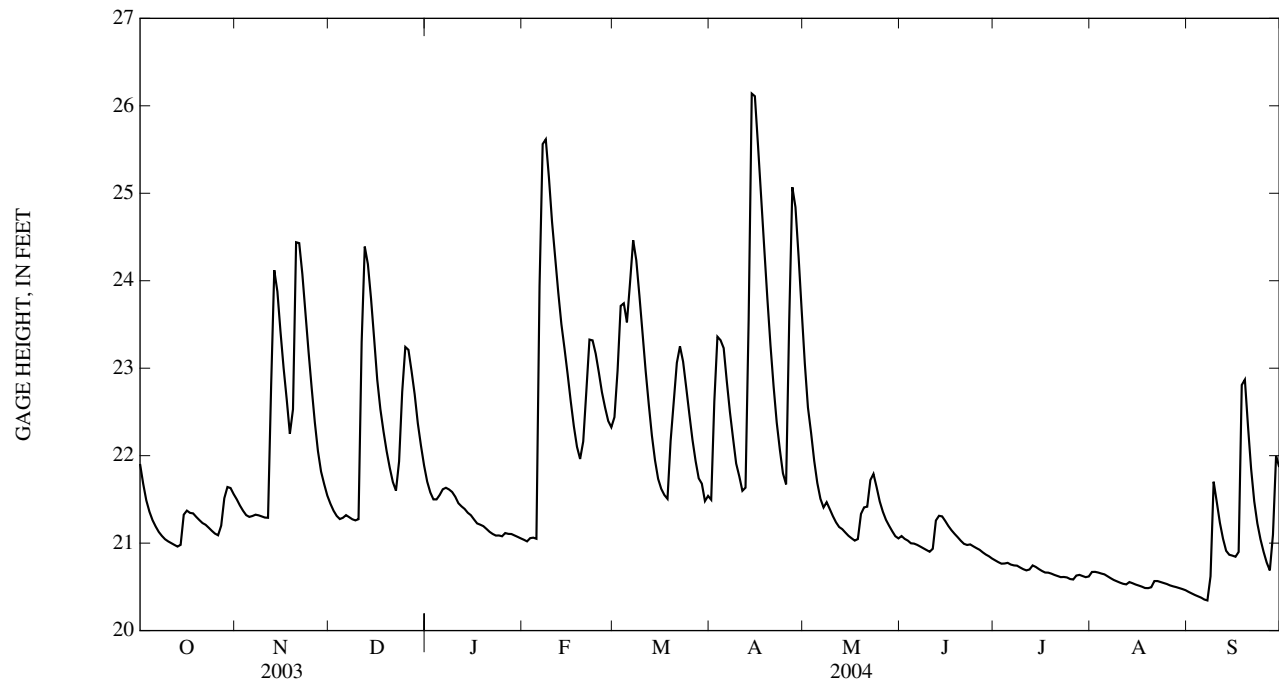
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 26.73 ft, Mar. 10, 2003; minimum gage height, 19.09 ft, Sept. 25, 26, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 26.32 ft, Apr. 14; minimum gage height, 20.34 ft, Sept. 7, 8.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.91	21.50	21.45	21.70	21.04	22.44	21.50	23.05	21.08	20.80	20.67	20.44
2	21.68	21.43	21.37	21.58	21.02	22.97	22.62	22.55	21.05	20.78	20.67	20.42
3	21.49	21.37	21.31	21.50	21.06	23.71	23.36	22.26	21.03	20.77	20.66	20.41
4	21.36	21.32	21.28	21.50	21.06	23.74	23.32	21.94	21.00	20.77	20.65	20.39
5	21.26	21.30	21.29	21.55	21.05	23.52	23.23	21.69	20.99	20.77	20.64	20.38
6	21.19	21.31	21.32	21.62	23.94	23.98	22.85	21.51	20.98	20.76	20.62	20.36
7	21.13	21.33	21.30	21.63	25.56	24.46	22.50	21.41	20.96	20.75	20.60	20.34
8	21.08	21.32	21.27	21.61	25.62	24.23	22.20	21.47	20.94	20.74	20.58	20.62
9	21.04	21.31	21.26	21.58	25.18	23.83	21.91	21.39	20.92	20.72	20.56	21.70
10	21.02	21.29	21.27	21.53	24.67	23.40	21.76	21.31	20.90	20.70	20.55	21.47
11	21.00	21.29	23.30	21.46	24.27	22.97	21.60	21.24	20.94	20.69	20.54	21.23
12	20.98	22.80	24.39	21.42	23.87	22.59	21.63	21.18	21.26	20.70	20.53	21.05
13	20.96	24.12	24.19	21.39	23.50	22.23	23.55	21.16	21.31	20.75	20.55	20.91
14	20.98	23.88	23.80	21.35	23.23	21.95	26.14	21.12	21.31	20.73	20.54	20.87
15	21.33	23.42	23.34	21.32	22.93	21.73	26.11	21.08	21.25	20.70	20.53	20.86
16	21.37	23.00	22.87	21.27	22.62	21.62	25.55	21.06	21.20	20.68	20.51	20.84
17	21.35	22.64	22.53	21.23	22.34	21.55	24.96	21.03	21.15	20.66	20.50	20.90
18	21.34	22.25	22.28	21.21	22.10	21.51	24.37	21.05	21.11	20.66	20.49	22.81
19	21.30	22.53	22.05	21.19	21.96	22.17	23.80	21.33	21.07	20.65	20.49	22.87
20	21.26	24.44	21.86	21.16	22.16	22.61	23.26	21.41	21.03	20.64	20.50	22.34
21	21.23	24.43	21.70	21.13	22.74	23.06	22.79	21.42	20.99	20.62	20.57	21.85
22	21.21	24.08	21.60	21.10	23.33	23.25	22.38	21.72	20.98	20.61	20.57	21.48
23	21.18	23.63	21.93	21.09	23.32	23.08	22.07	21.79	20.99	20.61	20.56	21.23
24	21.14	23.18	22.73	21.09	23.17	22.78	21.80	21.64	20.96	20.61	20.54	21.04
25	21.11	22.77	23.24	21.08	22.95	22.48	21.67	21.48	20.94	20.59	20.53	20.90
26	21.09	22.38	23.21	21.12	22.73	22.18	23.55	21.36	20.92	20.58	20.52	20.78
27	21.20	22.05	22.97	21.11	22.55	21.94	25.07	21.27	20.89	20.63	20.51	20.69
28	21.51	21.82	22.70	21.10	22.40	21.74	24.84	21.20	20.87	20.64	20.50	21.10
29	21.64	21.67	22.37	21.09	22.32	21.68	24.28	21.14	20.85	20.62	20.49	22.00
30	21.63	21.54	22.12	21.07	---	21.48	23.66	21.08	20.82	20.61	20.47	21.87
31	21.56	---	21.89	21.05	---	21.54	---	21.05	---	20.62	20.46	---
MEAN	21.28	22.38	22.26	21.32	22.92	22.66	23.28	21.46	21.02	20.68	20.55	21.14
MAX	21.91	24.44	24.39	21.70	25.62	24.46	26.14	23.05	21.31	20.80	20.67	22.87
MIN	20.96	21.29	21.26	21.05	21.02	21.48	21.50	21.03	20.82	20.58	20.46	20.34

01605002 PAINTER RUN NEAR FORT ASHBY, WV—Continued



01605500 SOUTH BRANCH POTOMAC RIVER AT FRANKLIN, WV

LOCATION.--Lat 38°38'08", long 79°20'17", NAD 27, Pendleton County, Hydrologic Unit 02070001, on left bank 0.5 mi southwest of Franklin, 2 mi upstream from Friends Run, 2.5 mi downstream from Thorn Creek, and at mile 112.5.

DRAINAGE AREA.--179 mi².

PERIOD OF RECORD.--April 1940 to September 1969, October 1976 to current year.

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

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,692.5 ft above NGVD 29 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Records good except those for periods of estimated daily discharges (no gage-height record, ice effect), which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1936 reached a stage of about 13 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 19	1400	*16,800	*12.26	Apr 13	2230	2,980	5.31
Dec 11	0400	3,000	5.32	Sep 8	2000	6,780	7.44
Feb 6	2300	2,270	4.82	Sep 28	1600	5,230	6.64

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e171	124	300	239	e70	227	213	301	246	87	71	44
2	e150	116	267	231	e65	303	199	307	208	117	78	44
3	133	112	241	237	e60	366	186	580	177	103	96	43
4	126	107	225	241	e67	345	178	449	161	91	73	42
5	122	105	226	239	79	337	169	385	236	86	67	41
6	111	115	216	229	739	531	161	330	232	82	75	41
7	104	119	197	194	1,220	614	154	283	200	75	65	43
8	98	106	179	178	581	525	151	248	175	78	59	1,420
9	94	101	171	180	398	428	150	224	162	73	57	1,200
10	92	98	238	170	327	366	138	203	163	72	54	436
11	89	97	1,870	153	299	321	131	190	151	82	53	263
12	87	221	873	160	265	294	200	208	183	97	53	192
13	83	860	604	155	251	259	1,360	180	169	91	91	153
14	88	499	511	146	255	234	1,800	163	153	80	70	124
15	282	372	422	144	232	220	884	156	205	74	60	108
16	183	302	347	115	206	244	610	178	420	71	57	98
17	159	256	361	116	190	328	474	200	368	68	62	113
18	157	223	342	126	177	298	387	205	285	66	56	463
19	136	4,550	301	119	186	398	329	223	239	112	52	322
20	125	2,420	269	101	278	399	291	202	205	90	50	224
21	116	1,000	232	e92	672	483	266	197	176	77	50	176
22	112	683	228	e83	477	466	239	232	161	71	54	143
23	108	518	317	e72	381	401	223	190	146	70	52	120
24	100	452	630	e70	345	345	208	165	139	66	49	106
25	93	428	636	e68	307	301	188	147	123	62	46	97
26	91	340	497	e66	272	266	673	153	123	60	45	90
27	128	299	405	104	238	245	743	216	110	61	44	87
28	198	337	345	92	218	229	534	508	100	66	45	2,360
29	170	401	309	84	215	209	410	446	95	61	46	1,610
30	151	326	297	e79	---	198	341	318	90	57	45	714
31	133	---	262	74	---	204	---	282	---	59	44	---
TOTAL	3,990	15,687	12,318	4,357	9,070	10,384	11,990	8,069	5,601	2,405	1,819	10,917
MEAN	129	523	397	141	313	335	400	260	187	77.6	58.7	364
MAX	282	4,550	1,870	241	1,220	614	1,800	580	420	117	96	2,360
MIN	83	97	171	66	60	198	131	147	90	57	44	41
CFSM	0.72	2.92	2.22	0.79	1.75	1.87	2.23	1.45	1.04	0.43	0.33	2.03
IN.	0.83	3.26	2.56	0.91	1.88	2.16	2.49	1.68	1.16	0.50	0.38	2.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

	MEAN	79.0	140	162	207	256	395	291	236	139	71.7	78.6	87.6
MAX	546	2,219	496	815	668	832	797	665	664	381	351	750	
(WY)	(1977)	(1986)	(1997)	(1996)	(1998)	(1963)	(1987)	(1996)	(1940)	(1949)	(1984)	(1996)	
MIN	20.0	25.5	23.5	32.5	45.6	80.8	90.2	59.3	33.7	27.8	23.3	21.4	
(WY)	(1964)	(1966)	(1966)	(1981)	(2002)	(1981)	(1988)	(1941)	(1964)	(1964)	(1966)	(1963)	

01605500 SOUTH BRANCH POTOMAC RIVER AT FRANKLIN, WV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	136,123		96,607		177	
ANNUAL MEAN	373		264		344	
HIGHEST ANNUAL MEAN					85.2	
LOWEST ANNUAL MEAN					25,000	
HIGHEST DAILY MEAN	5,900	Sep 19	4,550	Nov 19	Nov 4, 1985	2003
LOWEST DAILY MEAN	37	Feb 16	41	(a)	(b)	1999
ANNUAL SEVEN-DAY MINIMUM	46	Feb 12	43	Sep 1	Sep 6, 1966	
MAXIMUM PEAK FLOW			16,800	Nov 19	(c)44,000	Nov 4, 1985
MAXIMUM PEAK STAGE			12.26	Nov 19	(d)22.58	Nov 4, 1985
INSTANTANEOUS LOW FLOW			41	(f)	13	Jan 17, 1966
ANNUAL RUNOFF (CFSM)	2.08		1.47		0.990	
ANNUAL RUNOFF (INCHES)	28.29		20.08		13.45	
10 PERCENT EXCEEDS	807		479		376	
50 PERCENT EXCEEDS	248		180		89	
90 PERCENT EXCEEDS	62		64		32	

a Sept. 5, 6.

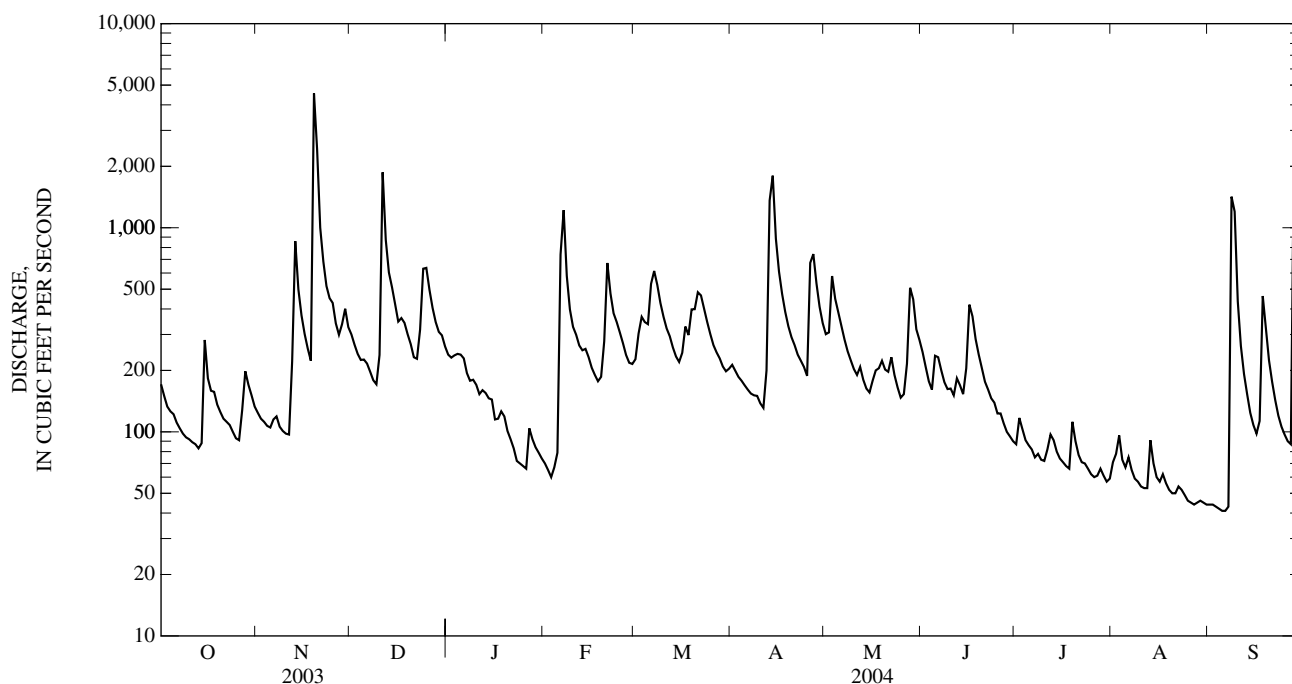
b Sept. 7-12, 1966.

c From rating curve extended above 15,000 ft³/s on basis of slope-area measurement of peak flow.

d From floodmarks.

e Estimated.

f Sept. 4-7.



01606000 NORTH FORK SOUTH BRANCH POTOMAC RIVER AT CABINS, WV

LOCATION.--Lat 38°59'04", long 79°14'02", NAD 27, Grant County, Hydrologic Unit 02070001, on right bank 10 ft upstream from bridge on County Route 28/11, 2 mi downstream from Jordan Run, 6 mi west of Petersburg, at Cabins, and at mile 2.9.

DRAINAGE AREA.--335 mi².

PERIOD OF RECORD.--February 1940 to September 1961, October 1961 to September 1978 (occasional discharge measurements and annual maximums only), October 1978 to September 1980, April 1998 to current year.

REVISED RECORDS.--WSP 1272: 1945.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,045.848 ft above NGVD 29.

REMARKS.--Records good except those for periods of estimated daily discharges (ice effect, no gage-height record), which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge, 90,000 ft³/s, Nov. 5, 1985, from slope-area measurement. Estimated discharge, 80,000 ft³/s, Sept. 6, 1996, from modification of Nov. 5, 1985, slope-area measurement.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 13	0500	3,680	7.42	Apr 13	2400	5,690	8.44
Nov 19	1600	*12,600	*11.06	Sep 8	2100	11,200	10.60
Dec 11	0600	4,360	7.79	Sep 28	1800	6,130	8.64
Feb 6	2100	5,540	8.37				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	350	447	543	e155	455	447	717	655	105	64	33
2	218	317	420	564	e150	996	494	654	510	95	65	24
3	193	288	386	952	143	1,790	493	1,210	398	82	59	19
4	182	261	365	1,210	156	2,030	574	1,080	328	93	59	16
5	188	246	363	1,020	e500	2,110	576	916	379	94	49	14
6	170	288	345	857	e1,700	2,650	555	766	400	76	44	14
7	151	310	306	672	3,750	2,470	591	642	345	67	44	16
8	137	294	269	665	1,870	1,880	780	567	292	66	40	2,030
9	127	283	260	532	1,190	1,390	807	495	250	61	35	2,690
10	121	269	312	455	909	1,090	656	433	230	57	31	884
11	116	262	3,370	537	781	919	566	389	274	193	28	460
12	109	955	2,030	389	e700	847	786	445	1,250	130	29	305
13	104	3,100	1,300	340	e680	718	3,370	918	770	125	35	224
14	108	1,860	1,010	296	e670	625	4,470	750	536	135	35	176
15	564	1,180	788	284	e580	608	2,460	706	472	111	35	146
16	656	837	611	313	e500	649	1,550	1,030	376	92	34	124
17	529	643	641	359	e460	841	1,130	666	441	76	33	186
18	505	510	670	291	e430	841	875	859	561	72	41	1,750
19	429	4,670	576	250	e410	1,380	711	826	759	67	33	966
20	376	4,670	494	207	487	1,450	606	831	527	79	29	570
21	338	2,200	407	e190	1,410	2,160	537	698	377	66	26	390
22	320	1,370	412	182	1,180	1,880	467	796	302	57	28	287
23	297	968	708	e165	864	1,360	420	674	258	57	32	223
24	259	752	1,540	e150	733	1,030	406	508	215	50	32	182
25	225	640	1,690	e135	625	828	372	399	193	46	27	156
26	206	509	1,210	e120	543	695	1,570	392	201	60	22	137
27	230	433	903	e144	475	611	2,240	550	162	130	18	124
28	479	407	722	e175	419	550	1,510	1,580	142	98	16	2,200
29	500	507	620	e170	409	478	1,090	1,780	121	72	15	2,820
30	454	455	619	e165	---	435	854	1,150	110	58	14	1,420
31	391	---	605	e160	---	427	---	860	---	51	15	---
TOTAL	8,917	29,834	24,399	12,492	22,879	36,193	31,963	24,287	11,834	2,621	1,067	18,586
MEAN	288	994	787	403	789	1,168	1,065	783	394	84.5	34.4	620
MAX	656	4,670	3,370	1,210	3,750	2,650	4,470	1,780	1,250	193	65	2,820
MIN	104	246	260	120	143	427	372	389	110	46	14	14
CFSM	0.86	2.97	2.35	1.20	2.36	3.49	3.18	2.34	1.18	0.25	0.10	1.85
IN.	0.99	3.31	2.71	1.39	2.54	4.02	3.55	2.70	1.31	0.29	0.12	2.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	147	214	395	484	682	876	800	590	323	130	143	148
MAX	913	994	1,114	1,053	1,473	1,716	1,703	1,404	1,133	655	767	678
(WY)	(1980)	(2004)	(1949)	(1952)	(1961)	(2003)	(1958)	(2003)	(2003)	(1949)	(1955)	(1950)
MIN	7.08	16.2	30.2	116	142	418	229	134	55.6	16.9	12.0	6.83
(WY)	(1954)	(1954)	(1999)	(1956)	(1941)	(1959)	(1955)	(1941)	(1999)	(1999)	(1999)	(1953)

01606000 NORTH FORK SOUTH BRANCH POTOMAC RIVER AT CABINS, WV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	302,072		225,072		408	
ANNUAL MEAN	828		615		213	
HIGHEST ANNUAL MEAN					814	
LOWEST ANNUAL MEAN					213	
HIGHEST DAILY MEAN	7,600	Sep 19	4,670	(a)	10,600	Aug 18, 1955
LOWEST DAILY MEAN	52	Aug 27	14	(b)	5.0	(c)
ANNUAL SEVEN-DAY MINIMUM	58	Aug 26	18	Aug 25	5.1	Sep 30, 1953
MAXIMUM PEAK FLOW			12,600	Nov 19	(d)90,000	Nov 5, 1985
MAXIMUM PEAK STAGE			11.06	Nov 19	(f)	Nov 5, 1985
INSTANTANEOUS LOW FLOW			12	Sep 6	5.0	(c)
ANNUAL RUNOFF (CFSM)	2.47		1.84		1.22	
ANNUAL RUNOFF (INCHES)	33.54		24.99		16.54	
10 PERCENT EXCEEDS	2,020		1,410		1,000	
50 PERCENT EXCEEDS	500		430		189	
90 PERCENT EXCEEDS	109		51		26	

a Nov. 19, 20.

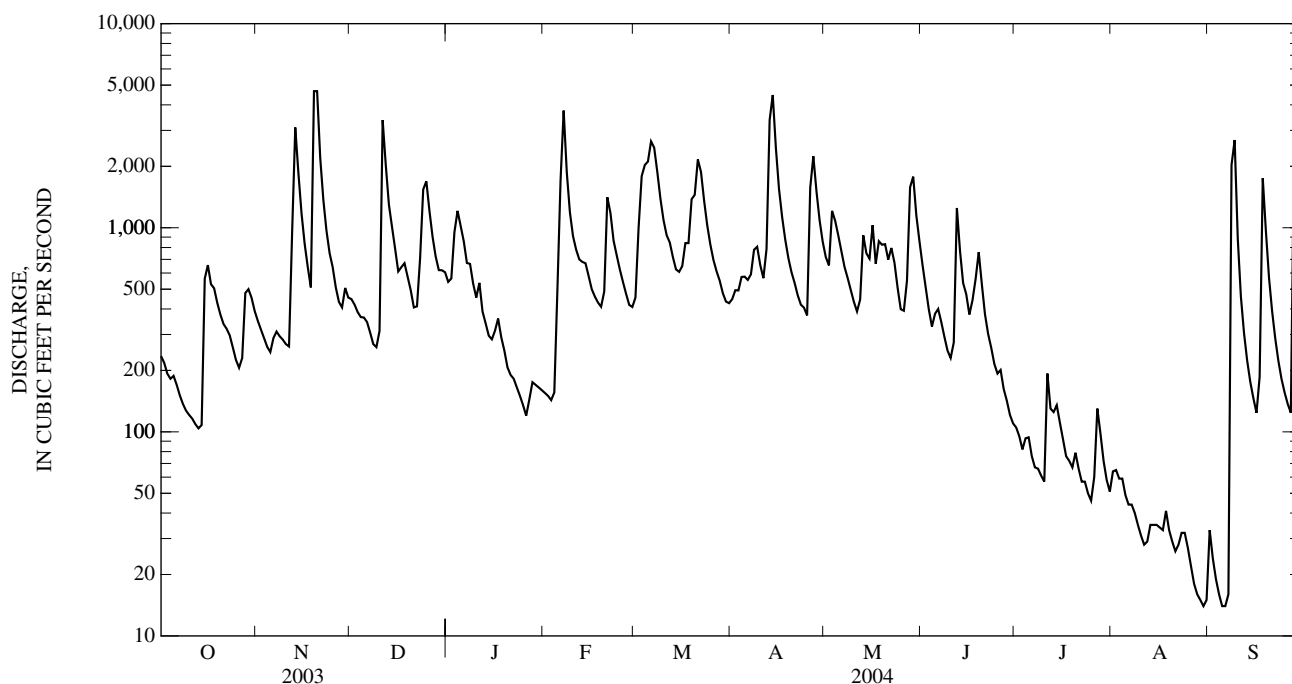
b Aug. 30, Sept. 5, 6.

c Oct. 1-5, 9-11, 1953.

d From slope-area measurement.

e Estimated.

f Not determined.



01606500 SOUTH BRANCH POTOMAC RIVER NEAR PETERSBURG, WV

LOCATION.--Lat 38°59'28", long 79°10'34", NAD 27, Grant County, Hydrologic Unit 02070001, on right bank 1.1 mi downstream from North Fork South Branch Potomac River, 2.6 mi west of Petersburg, and at mile 74.7.

DRAINAGE AREA.--676 mi².

PERIOD OF RECORD.--June 1928 to current year.

REVISED RECORDS.--WSP 951: 1939-41. WSP 1141: 1932, 1933(M), 1936-38. WDR WV-97-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 968.34 ft above NGVD 29. Prior to Dec. 4, 1928, nonrecording gage and June 1928 to Nov. 5, 1985, water-stage recorder at site 1,125 ft downstream at datum 6.34 ft lower. Nov. 5, 1985, to June 22, 1994, and October 23, 1996 to current year, water-stage recorder at present site and datum. June 22, 1994, to October 23, 1996, water-stage recorder at site 325 ft downstream at datum 2.34 ft lower.

REMARKS.--Records good except those for periods of estimated daily discharges (doubtful or no gage-height record, ice effect), which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1877 reached a stage of 21.2 ft, from floodmarks at previous site and datum, about 59,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 19	2000	*29,000	*14.86	Apr 14	0200	11,500	10.87
Dec 11	0730	9,600	10.35	Sep 8	2200	17,000	12.36
Feb 7	0100	9,540	10.33	Sep 28	1900	16,000	12.09

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	544	578	989	e1,050	325	863	838	1,260	1,120	261	175	120
2	503	536	924	e1,000	e315	1,360	883	1,130	911	251	191	114
3	453	498	848	1,310	305	2,470	851	2,100	748	272	190	107
4	420	463	790	1,640	329	2,670	901	1,840	634	277	204	101
5	417	441	791	1,430	341	2,810	896	1,520	734	259	172	97
6	392	483	765	1,260	3,180	3,410	844	1,280	873	229	165	98
7	357	517	692	1,020	6,870	3,590	860	1,080	728	215	167	103
8	330	496	625	864	3,380	2,880	1,030	953	631	211	151	2,480
9	308	467	590	860	2,240	2,260	1,080	835	557	202	140	6,500
10	294	442	632	739	1,730	1,810	922	740	522	186	133	1,860
11	282	429	6,240	608	1,540	1,500	814	666	543	341	125	1,010
12	269	1,050	3,960	660	1,330	1,360	1,000	704	1,670	294	129	693
13	258	4,450	2,670	626	1,210	1,190	5,450	1,070	1,150	296	155	527
14	259	3,010	2,150	557	1,200	1,040	8,650	946	853	285	185	421
15	882	2,020	1,730	533	1,090	992	4,550	905	879	242	151	356
16	1,040	1,450	1,350	435	920	1,030	3,020	1,250	944	211	142	311
17	820	1,150	1,350	389	819	1,390	2,270	1,050	1,220	188	137	348
18	778	951	1,440	495	758	1,380	1,760	1,360	1,110	183	146	2,300
19	691	9,690	1,240	481	734	2,070	1,420	1,240	1,280	184	135	1,620
20	617	10,000	1,080	390	967	2,260	1,200	1,260	953	229	124	986
21	560	4,350	928	366	2,500	3,020	1,080	1,120	740	186	129	713
22	531	2,870	893	e350	2,310	2,830	955	1,230	618	172	134	552
23	503	2,130	1,290	e320	1,690	2,220	863	1,110	548	182	134	448
24	459	1,660	2,440	e310	1,430	1,750	824	887	480	165	129	375
25	410	1,520	3,010	e295	1,250	1,420	744	727	449	148	120	328
26	377	1,210	2,280	287	1,080	1,210	2,590	703	516	142	112	294
27	399	1,030	1,760	340	965	1,080	3,960	942	402	246	109	270
28	728	957	e1,550	359	866	993	2,750	2,180	344	220	107	4,850
29	791	1,210	e1,400	356	825	889	1,990	2,720	308	195	108	6,460
30	729	1,060	e1,250	347	---	813	1,530	1,780	282	172	106	2,880
31	641	---	e1,150	338	---	803	---	1,360	---	161	103	---
TOTAL	16,042	57,118	48,807	20,015	42,499	55,363	56,525	37,948	22,747	6,805	4,408	37,322
MEAN	517	1,904	1,574	646	1,465	1,786	1,884	1,224	758	220	142	1,244
MAX	1,040	10,000	6,240	1,640	6,870	3,590	8,650	2,720	1,670	341	204	6,500
MIN	258	429	590	287	305	803	744	666	282	142	103	97
CFSM	0.77	2.82	2.33	0.96	2.17	2.64	2.79	1.81	1.12	0.32	0.21	1.84
IN.	0.88	3.14	2.69	1.10	2.34	3.05	3.11	2.09	1.25	0.37	0.24	2.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004, BY WATER YEAR (WY)

	322	504	714	921	1,163	1,652	1,294	1,035	553	293	287	284
MAX	1,863	5,569	2,511	3,386	3,519	4,090	2,888	3,546	2,196	1,479	1,601	2,968
(WY)	(1977)	(1986)	(1973)	(1996)	(1994)	(1936)	(1993)	(1996)	(2003)	(1949)	(1996)	(1996)
MIN	49.3	62.7	95.1	143	212	543	398	233	125	63.9	54.1	52.3
(WY)	(1931)	(1931)	(1966)	(1981)	(1934)	(1990)	(1986)	(1930)	(1999)	(1999)	(1930)	(1930)

01606500 SOUTH BRANCH POTOMAC RIVER NEAR PETERSBURG, WV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004	
ANNUAL TOTAL	591,715		405,599		750	
ANNUAL MEAN	1,621		1,108		1,619	
HIGHEST ANNUAL MEAN					365	
LOWEST ANNUAL MEAN					77,000	
HIGHEST DAILY MEAN	18,600	Sep 19	10,000	Nov 20	Nov 5, 1985	
LOWEST DAILY MEAN	170	Aug 31	97	Sep 5	(a)	
ANNUAL SEVEN-DAY MINIMUM	179	Aug 26	106	Aug 31	Sep 6, 1966	
MAXIMUM PEAK FLOW			29,000	Nov 19	(b)130,000	Nov 5, 1985
MAXIMUM PEAK STAGE			14.86	Nov 19	(c)25.40	Nov 5, 1985
INSTANTANEOUS LOW FLOW			93	Sep 5	42	(d)
ANNUAL RUNOFF (CFSM)	2.40		1.64		1.11	
ANNUAL RUNOFF (INCHES)	32.56		22.32		15.07	
10 PERCENT EXCEEDS	3,710		2,350		1,690	
50 PERCENT EXCEEDS	1,010		814		380	
90 PERCENT EXCEEDS	246		170		96	

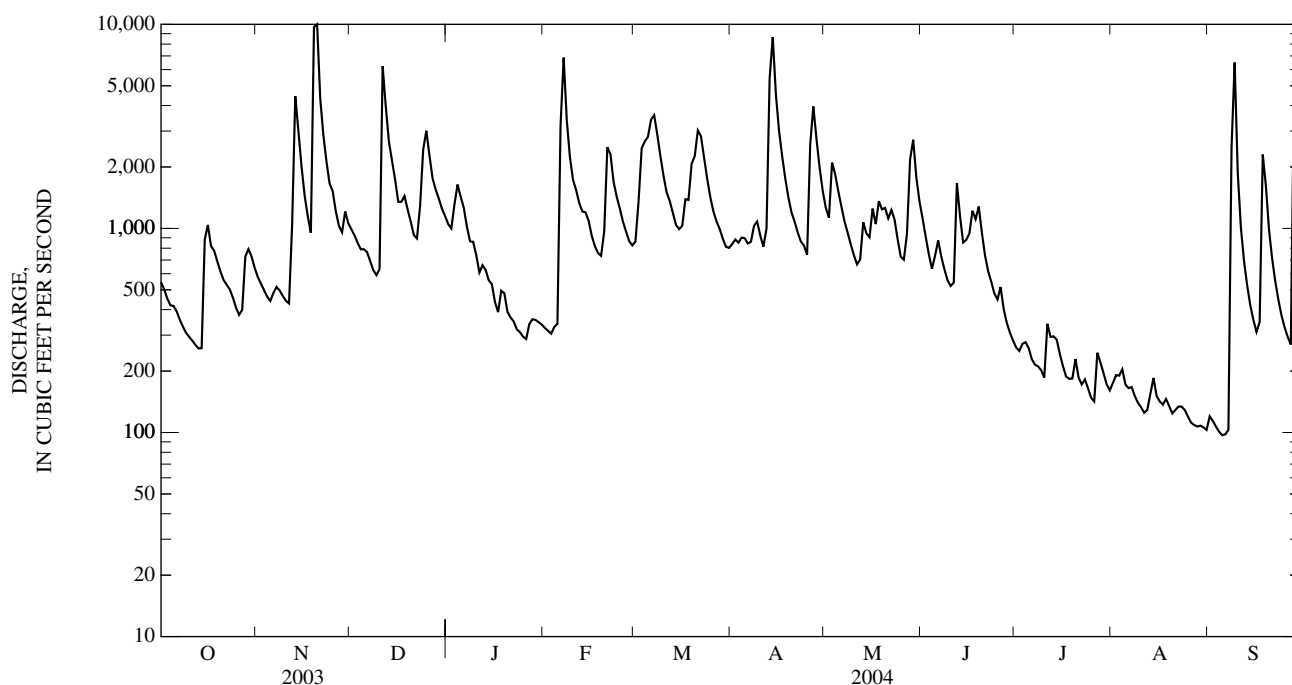
a Sept. 27-29, 1959, Sept. 11, 12, 1966.

b From rating curve extended above 16,700 ft³/s on basis of slope-area measurement of peak flow.

c From floodmarks at former site at gage datum 962.00 ft.

d Sept. 28, 29, 1959, Sept. 11, 12, 1966.

e Estimated.



POTOMAC RIVER BASIN

01606900 SOUTH MILL CREEK NEAR MOZER, WV
(Detention Reservoir)

LOCATION.--Lat 38°50'17", long 79°09'48", NAD 27, Grant County, Hydrologic Unit 02070001.

DAM NAME.--North and South Mill Creek No. 7.

SURFACE AREA.--48 acres.

DRAINAGE AREA.--10.0 mi².

PERIOD OF RECORD.--October 2003 to September 2004.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,279.95 ft above NGVD 29.

REMARKS.-- Normal Pool = 8.85 ft (Normal Storage=840 acre-ft)

Top of Riser = 11.0 ft

Emergency Spillway = 31.8 ft

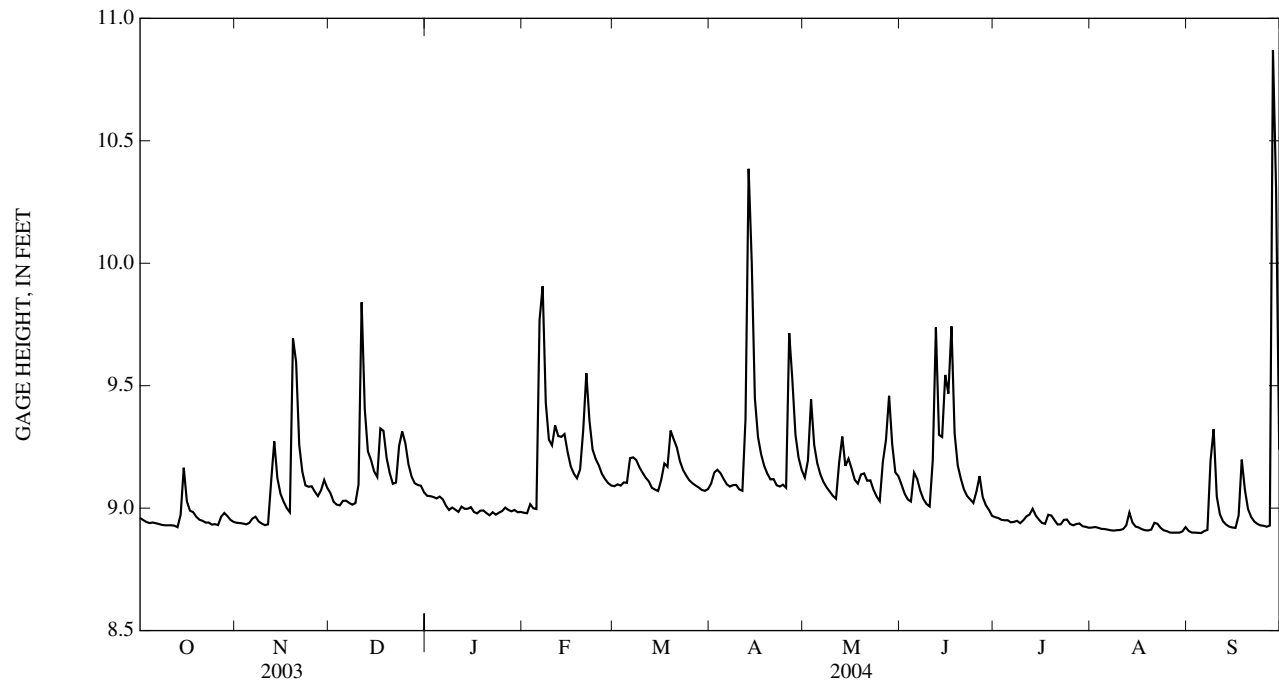
Top of Dam = 45.2 ft

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.98 ft, Sept. 28; minimum gage height, 8.89 ft, Aug. 27, 29, and Sept. 4, 5.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.96	8.94	9.06	9.05	8.98	9.09	9.10	9.13	9.10	8.96	8.92	8.91
2	8.95	8.94	9.03	9.05	8.98	9.10	9.15	9.20	9.06	8.96	8.92	8.90
3	8.94	8.94	9.01	9.05	9.02	9.09	9.16	9.44	9.04	8.95	8.92	8.90
4	8.94	8.93	9.01	9.04	9.00	9.11	9.14	9.26	9.03	8.95	8.92	8.90
5	8.94	8.94	9.03	9.05	9.00	9.10	9.12	9.18	9.14	8.95	8.91	8.90
6	8.94	8.96	9.03	9.04	9.77	9.20	9.10	9.14	9.12	8.94	8.91	8.91
7	8.94	8.96	9.02	9.01	9.91	9.21	9.09	9.11	9.07	8.94	8.91	8.91
8	8.93	8.95	9.01	8.99	9.43	9.20	9.09	9.08	9.04	8.95	8.91	9.19
9	8.93	8.94	9.02	9.00	9.28	9.17	9.10	9.07	9.02	8.94	8.91	9.32
10	8.93	8.93	9.10	8.99	9.26	9.14	9.08	9.05	9.01	8.95	8.91	9.05
11	8.93	8.93	9.84	8.98	9.34	9.12	9.07	9.04	9.20	8.97	8.91	8.97
12	8.93	9.11	9.41	9.01	9.29	9.11	9.36	9.19	9.74	8.97	8.93	8.95
13	8.92	9.27	9.23	9.00	9.29	9.08	10.39	9.29	9.30	9.00	8.98	8.93
14	8.97	9.12	9.20	9.00	9.30	9.08	10.00	9.17	9.29	8.97	8.94	8.92
15	9.16	9.06	9.15	9.00	9.23	9.07	9.45	9.20	9.54	8.95	8.92	8.92
16	9.03	9.03	9.13	8.98	9.17	9.12	9.29	9.16	9.47	8.94	8.92	8.92
17	8.99	9.00	9.33	8.98	9.14	9.18	9.22	9.12	9.74	8.94	8.91	8.97
18	8.98	8.98	9.32	8.99	9.12	9.17	9.17	9.10	9.31	8.97	8.91	9.20
19	8.97	9.69	9.21	8.99	9.16	9.32	9.14	9.14	9.17	8.97	8.91	9.08
20	8.95	9.60	9.14	8.98	9.32	9.28	9.12	9.14	9.12	8.95	8.91	9.00
21	8.95	9.26	9.10	8.97	9.55	9.25	9.12	9.11	9.08	8.93	8.94	8.96
22	8.94	9.15	9.10	8.98	9.36	9.19	9.09	9.11	9.05	8.93	8.94	8.95
23	8.94	9.09	9.25	8.97	9.24	9.16	9.09	9.08	9.04	8.95	8.92	8.94
24	8.93	9.09	9.31	8.98	9.20	9.13	9.10	9.05	9.02	8.95	8.91	8.93
25	8.93	9.09	9.27	8.99	9.17	9.11	9.08	9.03	9.07	8.94	8.91	8.93
26	8.93	9.07	9.18	9.00	9.14	9.10	9.71	9.19	9.13	8.93	8.90	8.92
27	8.97	9.05	9.13	8.99	9.12	9.09	9.52	9.28	9.04	8.94	8.90	8.93
28	8.98	9.07	9.10	8.99	9.10	9.08	9.30	9.46	9.01	8.94	8.90	10.87
29	8.97	9.12	9.09	8.99	9.09	9.07	9.21	9.26	8.99	8.93	8.90	10.30
30	8.95	9.08	9.09	8.98	---	9.07	9.16	9.15	8.97	8.92	8.90	9.24
31	8.94	---	9.06	8.98	---	9.08	---	9.13	---	8.92	8.92	---
MEAN	8.96	9.08	9.16	9.00	9.24	9.14	9.26	9.16	9.16	8.95	8.92	9.09
MAX	9.16	9.69	9.84	9.05	9.91	9.32	10.39	9.46	9.74	9.00	8.98	10.87
MIN	8.92	8.93	9.01	8.97	8.98	9.07	9.07	9.03	8.97	8.92	8.90	8.90

01606900 SOUTH MILL CREEK NEAR MOZER, WV—Continued



POTOMAC RIVER BASIN

01607300 BRUSHY FORK NEAR SUGAR GROVE, WV
(Detention Reservoir)

LOCATION.-- Lat 38°27'59", long 79°19'08", NAD 83, Pendleton County, Hydrologic Unit 02070001.

DAM NAME.--South Fork # 19.

SURFACE AREA.--26 acres.

DRAINAGE AREA.--15.2 mi².

PERIOD OF RECORD.--June 2004 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 689.05 ft. above NGVD 29.

REMARKS.-- Normal Pool = 46.50 ft (Normal Storage=271 acre-ft)

Top of Riser = 50.00 ft

Emergency Spillway = 83.1 ft

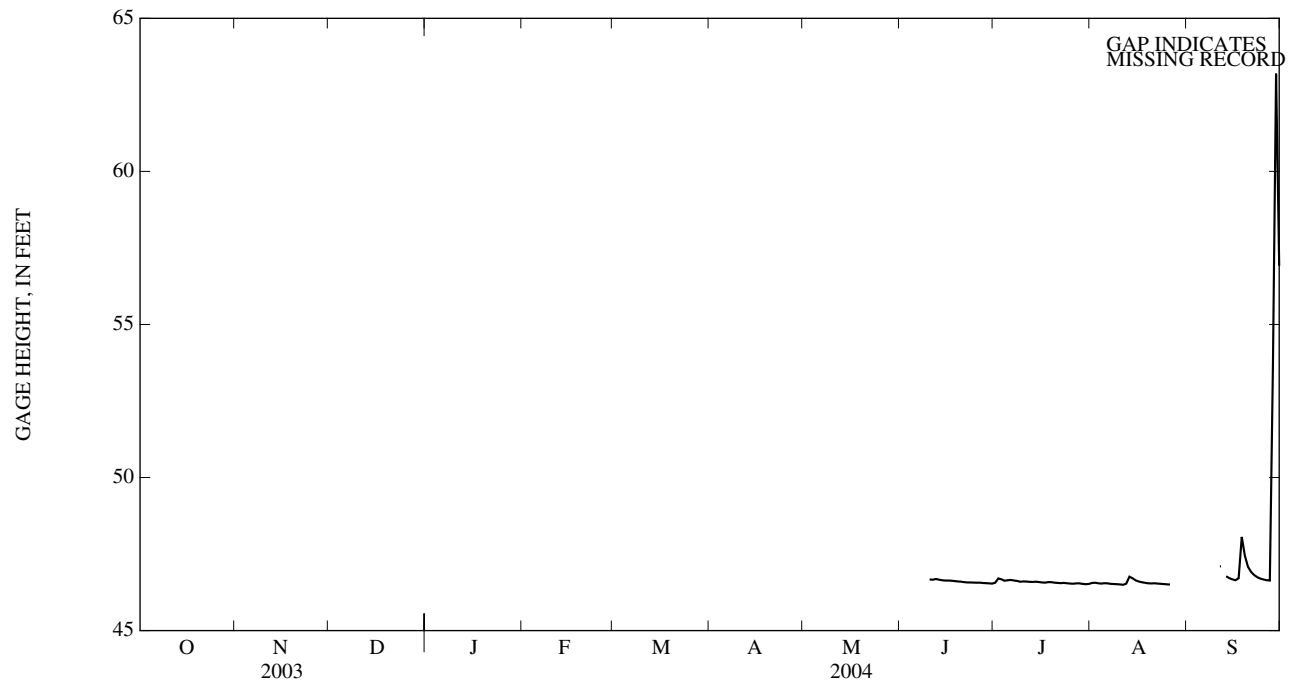
Top of Dam = 101.00 ft

EXTREMES FOR JUNE TO SEPTEMBER 2004.--Maximum gage height, 64.33 ft, Sept. 29; minimum gage height, 46.49 ft, Aug. 11, 12, 30, and Sept. 7.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	46.56	46.56	---
2	---	---	---	---	---	---	---	---	---	46.70	46.56	---
3	---	---	---	---	---	---	---	---	---	46.68	46.55	---
4	---	---	---	---	---	---	---	---	---	46.63	46.54	---
5	---	---	---	---	---	---	---	---	---	46.64	46.55	---
6	---	---	---	---	---	---	---	---	---	46.66	46.54	---
7	---	---	---	---	---	---	---	---	---	46.64	46.53	---
8	---	---	---	---	---	---	---	---	---	46.62	46.52	---
9	---	---	---	---	---	---	---	---	---	46.60	46.52	---
10	---	---	---	---	---	---	---	---	46.67	46.61	46.51	---
11	---	---	---	---	---	---	---	---	46.66	46.60	46.50	47.10
12	---	---	---	---	---	---	---	---	46.69	46.59	46.53	---
13	---	---	---	---	---	---	---	---	46.66	46.59	46.76	46.77
14	---	---	---	---	---	---	---	---	46.64	46.60	46.71	46.71
15	---	---	---	---	---	---	---	---	46.63	46.59	46.64	46.67
16	---	---	---	---	---	---	---	---	46.64	46.57	46.60	46.65
17	---	---	---	---	---	---	---	---	46.63	46.57	46.58	46.71
18	---	---	---	---	---	---	---	---	46.62	46.58	46.56	48.06
19	---	---	---	---	---	---	---	---	46.61	46.58	46.55	47.45
20	---	---	---	---	---	---	---	---	46.60	46.57	46.54	47.08
21	---	---	---	---	---	---	---	---	46.58	46.56	46.55	46.91
22	---	---	---	---	---	---	---	---	46.57	46.55	46.54	46.81
23	---	---	---	---	---	---	---	---	46.57	46.56	46.53	46.74
24	---	---	---	---	---	---	---	---	46.57	46.55	46.52	46.70
25	---	---	---	---	---	---	---	---	46.56	46.54	46.51	46.67
26	---	---	---	---	---	---	---	---	46.57	46.53	46.50	46.65
27	---	---	---	---	---	---	---	---	46.56	46.54	---	46.64
28	---	---	---	---	---	---	---	---	46.55	46.54	---	53.73
29	---	---	---	---	---	---	---	---	46.54	46.53	---	63.19
30	---	---	---	---	---	---	---	---	46.53	46.52	---	56.92
31	---	---	---	---	---	---	---	---	---	46.52	---	---
MEAN	---	---	---	---	---	---	---	---	---	46.58	---	---
MAX	---	---	---	---	---	---	---	---	---	46.70	---	---
MIN	---	---	---	---	---	---	---	---	---	46.52	---	---

01607300 BRUSHY FORK NEAR SUGAR GROVE, WV—Continued



01607500 SOUTH FORK SOUTH BRANCH POTOMAC RIVER AT BRANDYWINE, WV

LOCATION.--Lat 38°37'53", long 79°14'38", NAD 27, Pendleton County, Hydrologic Unit 02070001, on left bank 50 ft upstream from bridge on U.S. Highway 33, 0.1 mi upstream from Hawes Run, 0.4 mi north of Brandywine, 0.9 mi downstream from Broad Run, and at mile 44.9.

DRAINAGE AREA.--103 mi².

PERIOD OF RECORD.--August 1943 to current year.

REVISED RECORDS.--WSP 1141: 1945(M), 1947(M). WDR WV-84-1: 1983. WDR WV-88-1: 1987. WDR WV-97-1: Drainage area, 1967(M), 1971-75(M), 1977-78(M).

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,558.35 ft above NGVD 29. Prior to Sept. 24, 1956, nonrecording gage at highway bridge 50 ft downstream at same datum.

REMARKS.--Records good except those for periods of estimated daily discharges (ice effect), which are poor. The flow from 41.3 mi² upstream from station is partially controlled, but not diverted, by several floodwater detention reservoirs with a total combined detention capacity of 8,882 acre-ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharges for the November 1877 and 1896 peaks were about 40,000 ft³/s and 45,000 ft³/s, respectively; based on notes from local residents comparing these peaks to the 1949 peak.

PEAK DISCHARGE FOR CURRENT YEAR.--Maximum discharge, 3,170 ft³/s, Sept. 28, gage height, 6.68 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	62	221	99	e22	94	74	158	131	18	18	7.1
2	70	53	171	89	e20	99	74	172	104	44	23	6.8
3	62	49	136	85	e19	115	72	373	84	33	19	7.1
4	56	48	117	80	31	124	70	302	66	27	15	6.8
5	54	44	114	77	68	131	63	232	95	24	14	6.8
6	49	47	105	75	734	294	57	184	86	22	18	6.8
7	46	50	92	63	1,170	443	56	156	68	21	15	7.4
8	43	47	79	55	537	328	56	132	56	23	13	465
9	40	46	71	57	337	234	56	117	50	19	11	1,290
10	38	41	114	50	255	182	53	97	48	19	11	833
11	38	39	1,490	45	231	135	53	89	49	22	10	324
12	36	60	750	50	206	116	112	110	64	20	12	111
13	35	704	398	46	199	101	1,180	97	55	23	53	63
14	39	420	312	42	211	87	1,410	81	49	20	35	48
15	118	261	229	42	189	78	801	67	52	17	24	39
16	78	181	176	37	150	90	378	92	68	16	17	31
17	64	139	232	42	125	121	265	852	75	15	14	36
18	65	111	275	39	112	130	199	399	58	16	13	786
19	61	935	211	36	112	229	161	303	50	19	11	567
20	51	1,390	164	32	136	274	138	239	44	17	10	229
21	48	961	127	e27	328	264	124	208	39	14	11	115
22	47	517	112	e23	319	211	113	207	35	14	12	74
23	44	247	162	e18	234	167	106	159	31	18	11	53
24	43	197	454	e17	192	138	100	126	30	14	9.3	44
25	40	229	567	e16	170	119	90	99	28	13	8.5	37
26	39	190	376	e15	141	105	362	98	28	13	8.0	31
27	53	162	265	e38	124	95	564	112	26	13	8.2	28
28	106	176	200	34	111	89	362	336	23	15	7.6	1,440
29	94	293	162	31	100	80	246	302	21	13	7.5	1,680
30	76	275	141	e28	---	73	186	196	19	12	7.7	1,160
31	70	---	118	e25	---	73	---	158	---	11	7.4	---
TOTAL	1,779	7,974	8,141	1,413	6,583	4,819	7,581	6,253	1,632	585	454.2	9,532.8
MEAN	57.4	266	263	45.6	227	155	253	202	54.4	18.9	14.7	318
MAX	118	1,390	1,490	99	1,170	443	1,410	852	131	44	53	1,680
MIN	35	39	71	15	19	73	53	67	19	11	7.4	6.8
CFSM	0.56	2.58	2.55	0.44	2.20	1.51	2.45	1.96	0.53	0.18	0.14	3.09
IN.	0.64	2.88	2.94	0.51	2.38	1.74	2.74	2.26	0.59	0.21	0.16	3.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2004, BY WATER YEAR (WY)

	MEAN	56.9	87.9	108	127	154	231	168	131	75.2	31.8	38.6	56.7
MAX	340	965	473	519	681	588	583	324	570	220	301	568	
(WY)	(1973)	(1986)	(1974)	(1996)	(1998)	(1994)	(1987)	(1960)	(1949)	(1949)	(1984)	(1996)	
MIN	4.57	5.09	6.45	7.70	11.0	30.4	34.0	18.3	7.68	3.90	3.39	2.88	
(WY)	(1964)	(1999)	(1956)	(1981)	(2002)	(1988)	(1981)	(1977)	(1977)	(1999)	(1957)	(1968)	

01607500 SOUTH FORK SOUTH BRANCH POTOMAC RIVER AT BRANDYWINE, WV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1943 - 2004	
ANNUAL TOTAL	75,476		56,747.0		105	
ANNUAL MEAN	207		155		215	
HIGHEST ANNUAL MEAN					38.6	
LOWEST ANNUAL MEAN					7,500	
HIGHEST DAILY MEAN	3,250	Sep 19	1,680	Sep 29	7,500	Nov 4, 1985
LOWEST DAILY MEAN	13	(a)	6.8	(b)	0.20	Aug 13, 1999
ANNUAL SEVEN-DAY MINIMUM	13	Jul 27	7.0	Aug 31	0.42	Aug 4, 1999
MAXIMUM PEAK FLOW			3,170	Sep 28	(c)41,200	Jun 17, 1949
MAXIMUM PEAK STAGE			6.68	Sep 28	(d)18.42	Nov 4, 1985
INSTANTANEOUS LOW FLOW			6.8	(f)	0.17	Aug 13, 1999
ANNUAL RUNOFF (CFSM)	2.01		1.51		1.02	
ANNUAL RUNOFF (INCHES)	27.26		20.50		13.89	
10 PERCENT EXCEEDS	501		330		226	
50 PERCENT EXCEEDS	102		74		39	
90 PERCENT EXCEEDS	19		14		7.4	

a July 27, 28, 30, 31, Aug. 1-3, 26, 27.

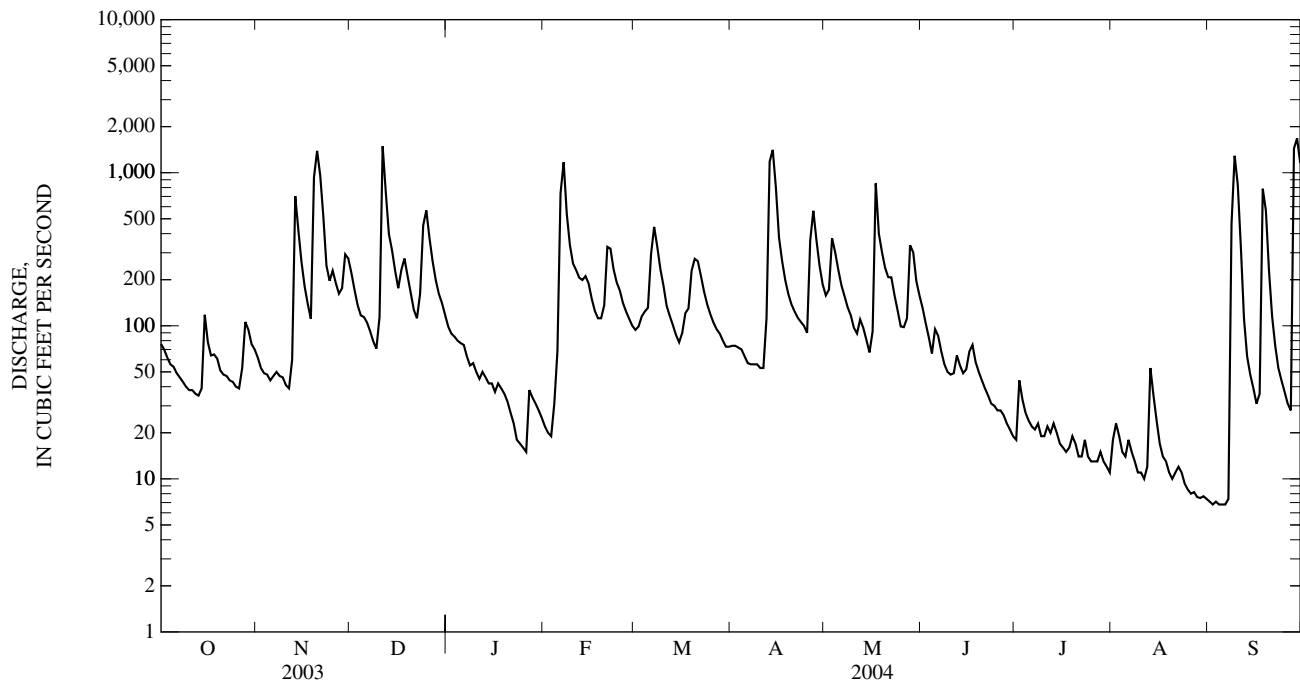
b Sept. 2, 4-6.

c From rating curve extended above 5,300 ft³/s on basis of slope-area measurement of peak flow.

d From floodmarks.

e Estimated.

f Sept. 1-7.



01608000 SOUTH FORK SOUTH BRANCH POTOMAC RIVER NEAR MOOREFIELD, WV

LOCATION.--Lat 39°00'44", long 78°57'23", NAD 27, Hardy County, Hydrologic Unit 02070001, on right bank 0.2 mi downstream from Stony Creek, 3.5 mi south of Moorefield, and at mile 5.3.

DRAINAGE AREA.--277 mi².

PERIOD OF RECORD.--June 1928 to September 1935, August 1938 to current year.

REVISED RECORDS.--WSP 1141: 1933(M), 1940, 1942-43, 1945, 1948(M). WSP 1302:1931(M), 1935(M). WDR WV-97-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 861.51 ft above sea level (U.S. Army Corps of Engineers datum). Prior to Mar. 11, 1940, nonrecording gage at Harness Ford Bridge 2.0 mi upstream at datum about 31 ft higher.

REMARKS.--Records good except those for periods of estimated discharges (ice effect, doubtful gage-height record), which are poor. The flow from 92.7 mi² upstream from station is partially controlled, but not diverted, by several floodwater detention reservoirs with a total combined detention capacity of 19,870 acre-ft. Water-quality data furnished by Maryland USGS.

PEAK DISCHARGE FOR CURRENT YEAR.--Maximum discharge, 7,570 ft³/s, Sept. 28, gage height, 8.35 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	183	510	276	e70	234	196	419	332	59	39	e21
2	172	173	412	251	e65	228	270	370	267	55	49	e21
3	153	161	332	236	e60	240	387	720	223	64	101	e21
4	136	149	286	225	e110	265	349	711	189	79	71	20
5	126	143	274	215	e200	282	280	564	187	74	57	20
6	116	147	260	207	445	345	230	458	219	64	51	20
7	106	147	235	193	2,360	662	204	369	198	60	47	21
8	97	145	213	176	1,030	636	196	310	171	58	44	46
9	86	139	198	163	570	535	190	263	150	55	39	1,640
10	81	132	203	162	414	415	161	238	135	54	35	1,010
11	77	127	2,720	158	407	345	147	224	134	54	32	652
12	72	200	1,770	140	357	304	203	193	250	65	33	309
13	69	688	954	148	330	273	2,000	200	253	74	43	196
14	78	826	709	140	320	253	3,710	199	209	64	62	147
15	164	580	570	133	314	e215	1,710	190	287	57	70	119
16	235	442	462	143	259	e220	920	205	247	49	59	98
17	194	354	534	146	207	e230	613	510	261	44	52	89
18	172	295	665	128	176	240	472	687	235	44	46	505
19	158	856	557	e115	157	332	370	521	206	47	42	969
20	147	3,190	457	e105	186	458	307	448	177	45	39	540
21	136	1,600	373	e90	440	467	271	414	149	42	39	310
22	130	1,060	325	e74	596	454	237	414	128	44	38	217
23	126	631	369	e64	514	393	211	359	114	45	35	161
24	118	477	601	e56	439	340	201	281	101	50	33	127
25	113	469	1,030	e52	410	301	190	232	92	46	31	105
26	109	437	809	e49	348	269	1,010	215	93	43	28	90
27	117	391	608	e120	307	247	1,630	242	83	40	26	81
28	156	366	491	e110	274	237	1,020	502	75	43	e25	1,990
29	213	563	414	e98	250	231	662	668	69	40	e24	4,610
30	213	580	356	e86	---	207	510	483	63	39	e23	1,920
31	202	---	316	e78	---	191	---	397	---	38	e22	---
TOTAL	4,269	15,651	18,013	4,337	11,615	10,049	18,857	12,006	5,297	1,635	1,335	16,075
MEAN	138	522	581	140	401	324	629	387	177	52.7	43.1	536
MAX	235	3,190	2,720	276	2,360	662	3,710	720	332	79	101	4,610
MIN	69	127	198	49	60	191	147	190	63	38	22	20
CFSM	0.50	1.88	2.10	0.51	1.45	1.17	2.27	1.40	0.64	0.19	0.16	1.93
IN.	0.57	2.10	2.42	0.58	1.56	1.35	2.53	1.61	0.71	0.22	0.18	2.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004, BY WATER YEAR (WY)

	126	181	211	263	337	495	416	331	173	84.1	106	110
MEAN	126	181	211	263	337	495	416	331	173	84.1	106	110
MAX	776	2,951	879	1,267	1,591	1,327	1,787	946	1,071	510	801	1,340
(WY)	(1977)	(1986)	(1974)	(1996)	(1998)	(1993)	(1987)	(1988)	(1949)	(1949)	(1955)	(1996)
MIN	12.8	14.0	17.4	21.3	25.2	72.2	91.7	51.2	28.1	9.48	10.4	10.2
(WY)	(1992)	(1999)	(1966)	(1981)	(1934)	(1981)	(1981)	(1930)	(1977)	(1999)	(1965)	(1968)

01608000 SOUTH FORK SOUTH BRANCH POTOMAC RIVER NEAR MOOREFIELD, WV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004	
ANNUAL TOTAL	195,533		119,139		235	
ANNUAL MEAN	536		326		526	
HIGHEST ANNUAL MEAN					85.9	
LOWEST ANNUAL MEAN					28,000	
HIGHEST DAILY MEAN	9,680	Sep 19	4,610	Sep 29	28,000	Nov 5, 1985
LOWEST DAILY MEAN	31	(a)	20	(b)	4.4	Sep 10, 1966
ANNUAL SEVEN-DAY MINIMUM	33	Aug 26	21	Sep 1	5.3	Sep 5, 1966
MAXIMUM PEAK FLOW			7,570	Sep 28	(c)110,000	Nov 5, 1985
MAXIMUM PEAK STAGE			8.35	Sep 28	(d)19.99	Nov 5, 1985
INSTANTANEOUS LOW FLOW			20	(f)	3.1	Aug 13, 1999
ANNUAL RUNOFF (CFSM)	1.93		1.18		0.850	
ANNUAL RUNOFF (INCHES)	26.26		16.00		11.54	
10 PERCENT EXCEEDS	1,250		632		522	
50 PERCENT EXCEEDS	267		202		97	
90 PERCENT EXCEEDS	48		44		21	

a Aug. 31, Sept. 1.

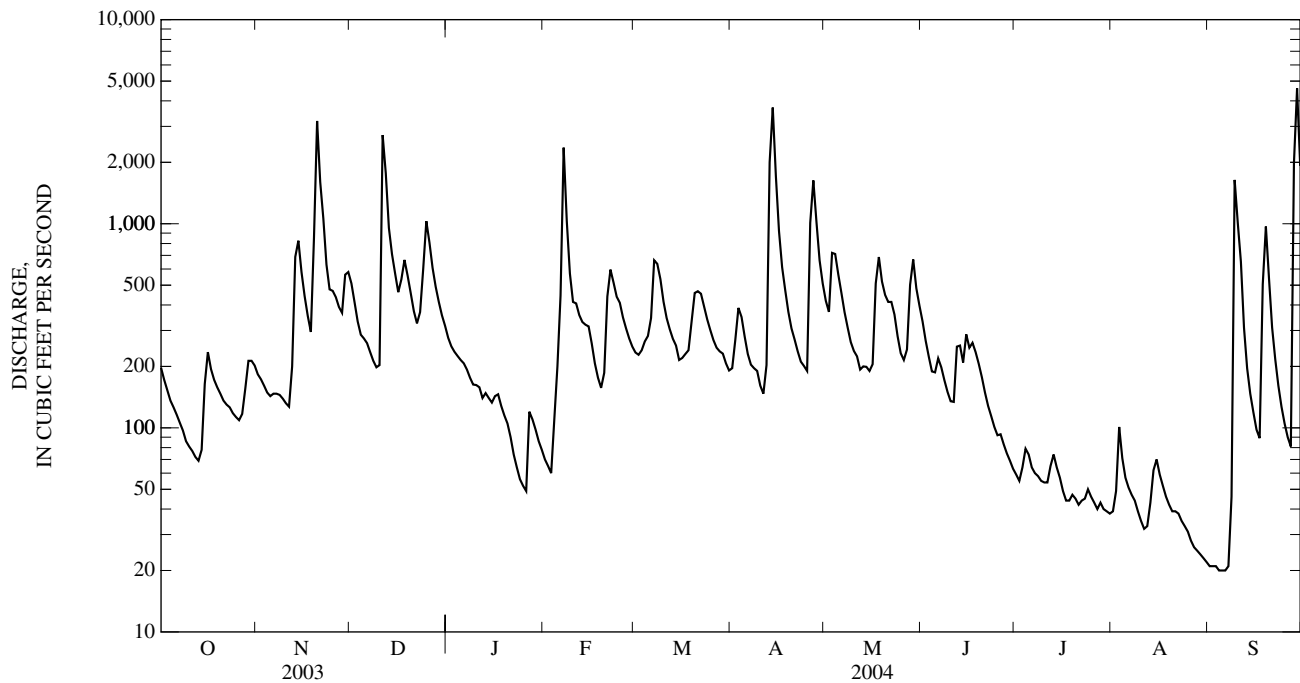
b Sept. 4-6.

c From rating curve extended above 39,000 ft³/s on basis of slope-area measurement of peak flow.

d From floodmarks.

e Estimated.

f Sept. 5,6.



01608500 SOUTH BRANCH POTOMAC RIVER NEAR SPRINGFIELD, WV

LOCATION.--Lat 39°26'49", long 78°39'16", NAD 27, Hampshire County, Hydrologic Unit 02070001, on left bank at highway bridge, 2.0 mi east of Springfield, and at mile 13.5.

DRAINAGE AREA.--1,486 mi².

PERIOD OF RECORD.--June 1894 to February 1896 (fragmentary), June 1899 to February 1902, August 1903 to July 1906, August 1928 to current year.

REVISED RECORDS.--WSP 1552: 1903-06, 1929-30(M), 1932-33(M), 1935(M), 1937-40(M), 1942-43(M), 1945(M). WDR WV-97-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 562.02 ft above NGVD 29. June 1894 to February 1896, nonrecording gage at Baltimore & Ohio Railroad bridge 11.2 mi upstream at different datum. June 26, 1899, to Feb. 2, 1902, nonrecording gage at bridge 10.0 mi upstream at different datum. Aug. 28, 1903, to July 14, 1906, nonrecording gage at present site at different datum. Aug. 8 to Sept. 24, 1928, nonrecording gage at present site and datum.

REMARKS.--Records good except those for period of estimated daily discharges (ice effect), which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in November 1877 reached a stage of about 34 ft, from floodmarks, discharge, 140,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 20	1230	*29,000	*18.00	Apr 14	1430	19,800	14.25
Dec 11	2100	16,100	12.45	Sep 9	1430	14,400	11.62
Feb 6	2400	25,700	16.71	Sep 29	1030	21,800	15.19

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,370	1,150	2,050	1,860	856	1,650	1,550	2,390	1,880	498	351	160
2	1,220	1,060	1,860	1,710	830	1,830	2,760	2,070	1,580	465	309	153
3	1,100	998	1,690	1,700	778	2,740	2,820	2,670	1,340	440	286	164
4	1,010	942	1,540	2,030	770	3,140	2,430	3,390	1,160	473	358	160
5	949	910	1,490	2,150	863	3,600	2,110	2,740	1,060	755	349	154
6	910	933	1,480	1,970	2,750	3,850	1,820	2,320	1,210	664	312	150
7	862	1,040	1,420	1,750	16,100	5,280	1,640	1,970	1,270	491	276	145
8	805	1,070	1,320	1,510	8,570	4,580	1,590	1,770	1,100	448	265	246
9	758	1,000	1,240	1,400	4,840	3,680	1,740	1,540	980	437	263	7,400
10	713	941	1,230	1,340	3,520	2,960	1,640	1,370	898	399	244	4,760
11	680	903	8,740	1,200	3,590	2,470	1,450	1,230	877	383	225	2,510
12	655	2,530	10,400	1,120	3,200	2,160	1,510	1,130	2,500	446	217	1,600
13	627	4,770	5,710	1,150	2,890	1,960	8,210	1,150	2,640	543	222	1,110
14	616	5,730	4,030	1,090	2,930	1,750	17,900	1,470	1,790	510	256	853
15	892	3,670	3,300	1,020	2,630	1,590	10,900	1,360	1,450	478	281	703
16	1,500	2,720	2,720	944	2,210	1,550	6,290	1,450	1,560	426	324	601
17	1,490	2,180	2,460	814	1,860	1,750	4,280	1,650	2,070	384	264	542
18	1,330	1,840	3,070	798	1,670	2,070	3,260	2,030	1,940	364	246	1,790
19	1,260	2,230	2,760	896	1,600	2,620	2,630	2,540	1,740	360	238	3,700
20	1,140	20,500	2,360	858	2,160	3,430	2,220	2,540	1,650	348	245	2,360
21	1,060	9,850	2,030	701	3,830	3,990	1,990	2,080	1,330	363	274	1,550
22	983	5,820	1,800	649	5,380	4,440	1,790	2,020	1,110	361	259	1,150
23	941	3,940	2,440	e620	3,750	3,540	1,630	1,990	980	344	250	913
24	911	2,980	3,960	e570	3,050	2,850	1,530	1,670	891	374	224	750
25	859	2,610	5,650	e515	2,650	2,390	1,520	1,380	793	378	212	638
26	804	2,370	4,630	497	2,290	2,060	4,710	1,210	753	317	202	560
27	831	2,040	3,470	913	2,000	1,830	9,040	1,300	820	331	190	507
28	1,270	1,850	2,810	1,040	1,800	1,680	5,870	1,700	671	383	178	1,210
29	1,420	2,040	2,410	1,010	1,660	1,540	3,910	3,600	595	372	175	16,700
30	1,390	2,320	2,160	916	---	1,420	2,940	2,950	538	342	170	7,760
31	1,270	---	2,030	929	---	1,380	---	2,180	---	315	165	---
TOTAL	31,626	92,937	94,260	35,670	91,027	81,780	113,680	60,860	39,176	13,192	7,830	60,999
MEAN	1,020	3,098	3,041	1,151	3,139	2,638	3,789	1,963	1,306	426	253	2,033
MAX	1,500	20,500	10,400	2,150	16,100	5,280	17,900	3,600	2,640	755	358	16,700
MIN	616	903	1,230	497	770	1,380	1,450	1,130	538	315	165	145
CFSM	0.69	2.08	2.05	0.77	2.11	1.78	2.55	1.32	0.88	0.29	0.17	1.37
IN.	0.79	2.33	2.36	0.89	2.28	2.05	2.85	1.52	0.98	0.33	0.20	1.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 2004, BY WATER YEAR (WY)

MEAN	616	884	1,250	1,620	2,053	3,021	2,405	1,846	1,048	528	542	521
MAX	4,629	12,850	5,000	6,928	6,474	10,490	6,421	5,785	5,231	2,638	3,923	6,538
(WY)	(1977)	(1986)	(1973)	(1996)	(1998)	(1936)	(1987)	(1996)	(1949)	(1949)	(1955)	(1996)
MIN	79.4	82.2	147	271	330	791	829	366	217	86.7	73.5	76.6
(WY)	(1931)	(1905)	(1966)	(1981)	(2002)	(1981)	(1976)	(1977)	(1999)	(1999)	(1930)	(1930)

01608500 SOUTH BRANCH POTOMAC RIVER NEAR SPRINGFIELD, WV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1899 - 2004	
ANNUAL TOTAL	1,050,566		723,037		1,358	
ANNUAL MEAN	2,878		1,976		2,975	
HIGHEST ANNUAL MEAN					566	
LOWEST ANNUAL MEAN					145,000	
HIGHEST DAILY MEAN	34,700	Sep 20	20,500	Nov 20	145,000	Nov 5, 1985
LOWEST DAILY MEAN	321	Feb 17	145	Sep 7	52	(a)
ANNUAL SEVEN-DAY MINIMUM	345	Aug 26	155	Sep 1	54	Sep 7, 1966
MAXIMUM PEAK FLOW			29,000	Nov 20	(b)240,000	Nov 5, 1985
MAXIMUM PEAK STAGE			18.00	Nov 20	(c)44.22	Nov 5, 1985
INSTANTANEOUS LOW FLOW			143	(d)	29	(f)
ANNUAL RUNOFF (CFSM)	1.94		1.33		0.914	
ANNUAL RUNOFF (INCHES)	26.30		18.10		12.41	
10 PERCENT EXCEEDS	6,020		3,770		3,070	
50 PERCENT EXCEEDS	1,780		1,440		660	
90 PERCENT EXCEEDS	453		316		152	

a Sept. 11, 12, 1966.

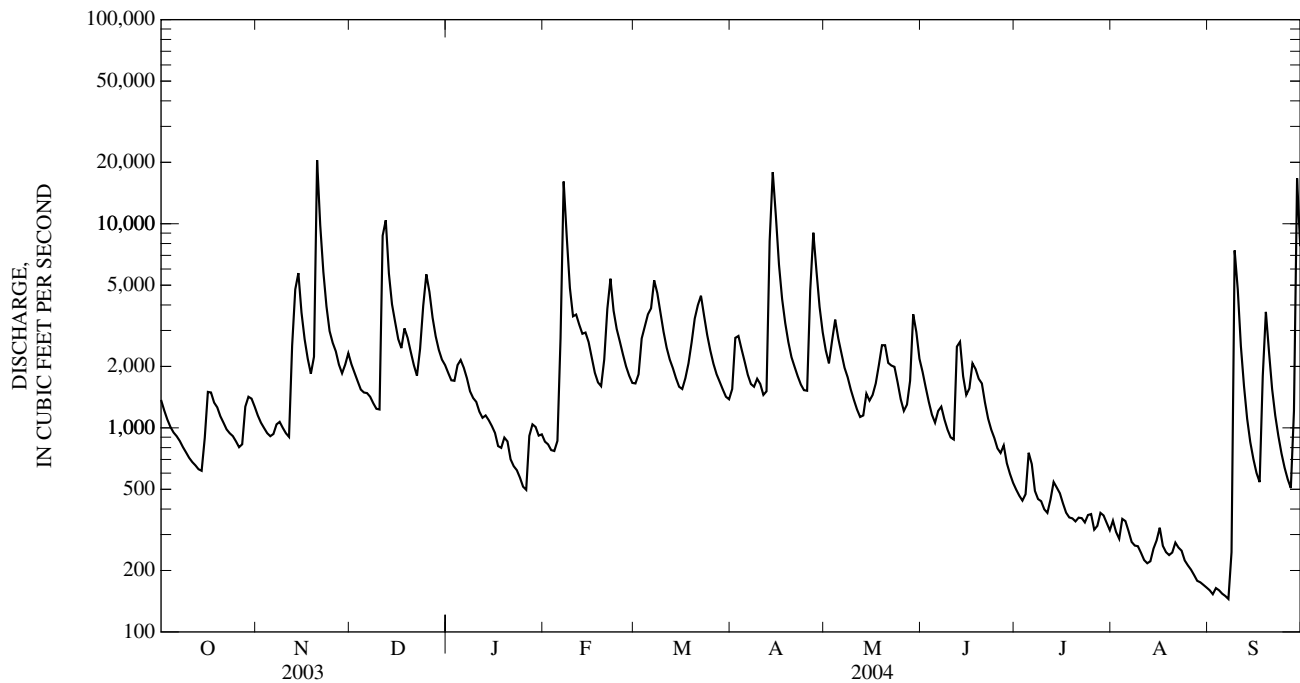
b From rating curve extended above 145,000 ft³/s on basis of slope-area measurement of peak flow.

c From floodmarks.

d Sept. 7, 8.

e Estimated.

f Jan. 28, 1956 (result of freeze-up), July 30, 1966 (result of temporary dam).



01610000 POTOMAC RIVER AT PAW PAW, WV

LOCATION.--Lat 39°32'20.1", long 78°27'23.0", 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.

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 discharge (ice effect), which are fair. 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 maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 20	1700	*42,000	*22.80	Apr 14	1400	36,900	21.24
Dec 11	2330	28,800	18.60	Sep 9	1700	29,600	18.89
Feb 7	0530	25,500	17.46	Sep 29	1330	25,700	17.54

Minimum discharge, 665 ft³/s, Sept. 6-8.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,650	2,890	5,130	5,330	e1,430	5,860	5,010	5,820	3,590	1,300	5,780	826
2	3,890	2,670	4,670	5,030	e1,420	7,420	13,300	5,220	3,180	1,220	2,980	754
3	3,350	2,530	4,300	5,000	e1,420	11,800	12,700	5,950	2,820	1,170	2,070	718
4	3,030	2,400	3,960	5,550	e2,050	11,700	10,700	6,670	2,540	1,570	1,710	712
5	3,200	2,320	3,840	6,580	2,060	13,900	9,270	5,770	2,340	1,780	1,530	696
6	3,170	2,520	3,910	7,900	3,760	16,000	7,340	5,130	2,390	1,850	1,390	676
7	2,650	2,800	3,760	7,110	22,300	17,600	6,240	4,550	2,550	1,410	1,210	665
8	2,210	2,960	3,550	6,250	16,200	14,200	5,780	4,320	2,260	1,310	1,110	1,320
9	2,090	2,820	3,360	5,600	10,600	11,300	6,280	3,990	2,060	1,270	1,060	21,500
10	1,990	2,670	3,300	4,980	8,620	9,640	5,650	3,650	1,930	1,130	996	12,100
11	1,910	2,600	18,000	4,250	8,520	8,500	4,920	3,170	1,880	1,070	891	6,950
12	2,180	7,230	21,700	e3,800	8,140	7,180	5,160	2,900	4,850	1,340	855	5,550
13	2,310	13,000	12,900	e3,400	7,650	5,940	18,700	2,850	6,710	2,030	1,110	4,540
14	1,780	12,400	9,820	e3,000	7,620	5,190	34,900	3,080	5,230	1,660	1,220	2,990
15	2,800	9,600	8,510	e2,700	7,190	4,750	22,700	3,050	3,710	1,400	1,530	2,320
16	3,170	7,920	7,280	e2,500	6,400	4,550	14,100	3,190	3,510	1,240	1,760	2,220
17	3,210	6,920	6,570	e2,300	5,790	4,710	10,200	3,300	3,490	1,130	982	2,110
18	2,960	5,980	7,030	e2,100	4,630	5,000	8,340	3,520	3,800	1,080	890	13,900
19	2,850	8,230	6,660	e1,900	4,190	7,450	7,100	6,150	3,380	1,210	849	10,800
20	2,640	34,600	5,800	e1,800	5,590	8,470	6,160	5,800	3,270	1,170	882	6,800
21	2,470	21,000	5,120	e1,750	8,920	10,700	5,570	5,000	2,840	1,070	1,030	4,730
22	2,360	13,200	4,700	e1,700	12,200	12,800	5,080	6,070	2,460	1,040	1,050	3,500
23	2,290	10,300	5,920	e1,650	9,270	10,300	4,790	5,900	2,140	1,160	1,000	2,900
24	2,200	8,580	10,200	e1,600	8,100	8,580	4,270	4,770	2,000	1,330	877	2,510
25	2,100	7,760	13,800	e1,580	7,310	7,170	4,180	3,760	1,850	1,190	852	2,290
26	2,000	6,690	11,300	e1,550	6,590	6,290	10,100	3,360	2,030	1,060	822	2,150
27	2,300	5,900	9,210	e1,530	5,860	5,630	16,500	3,180	1,900	1,240	792	2,010
28	3,810	5,520	7,850	e1,500	5,540	5,080	11,700	3,250	1,680	1,870	764	4,000
29	3,670	5,640	6,950	e1,460	5,520	4,550	8,640	5,160	1,510	1,550	747	19,600
30	3,510	5,650	6,200	e1,450	---	4,200	6,920	5,330	1,390	1,320	924	11,800
31	3,160	---	5,760	e1,440	---	4,160	---	4,080	---	3,560	1,020	---
TOTAL	85,910	225,300	231,060	104,290	204,890	260,620	292,300	137,940	85,290	43,730	40,683	153,637
MEAN	2,771	7,510	7,454	3,364	7,065	8,407	9,743	4,450	2,843	1,411	1,312	5,121
MAX	4,650	34,600	21,700	7,900	22,300	17,600	34,900	6,670	6,710	3,560	5,780	21,500
MIN	1,780	2,320	3,300	1,440	1,420	4,160	4,180	2,850	1,390	1,040	747	665
CFSM	0.89	2.40	2.38	1.08	2.26	2.69	3.11	1.42	0.91	0.45	0.42	1.64
IN.	1.02	2.68	2.75	1.24	2.44	3.10	3.48	1.64	1.01	0.52	0.48	1.83

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

	1,511	2,121	3,330	3,946	5,303	7,521	6,095	4,567	2,660	1,372	1,282	1,314
MEAN	1,511	2,121	3,330	3,946	5,303	7,521	6,095	4,567	2,660	1,372	1,282	1,314
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	2,043	1,882	1,074	544	303	278	252
(WY)	(1952)	(1966)	(1966)	(1981)	(2002)	(1990)	(1995)	(1941)	(1965)	(1966)	(1944)	(1959)

01610000 POTOMAC RIVER AT PAW PAW, WV—Continued

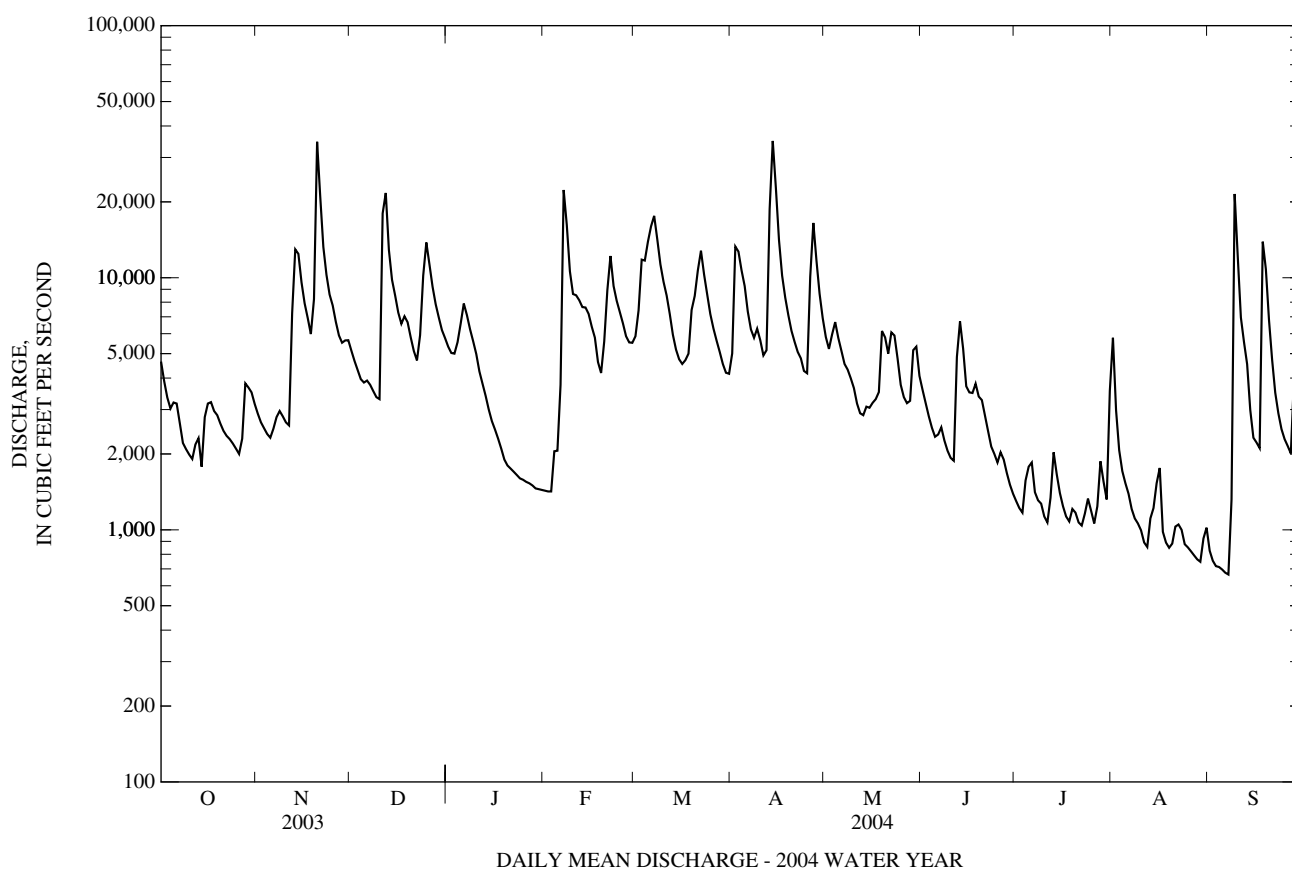
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL TOTAL	2,562,700		1,865,650		3,409	
ANNUAL MEAN	7,021		5,097		6,556	
HIGHEST ANNUAL MEAN					1,499	
LOWEST ANNUAL MEAN					125,000	
HIGHEST DAILY MEAN	48,500	Sep 20	34,900	Apr 14	Nov 6, 1985	2003
LOWEST DAILY MEAN	1,030	Aug 26	665	Sep 7	(a)	1969
ANNUAL SEVEN-DAY MINIMUM	1,180	Aug 23	721	Sep 1	Sep 7, 1966	
MAXIMUM PEAK FLOW			42,000	Nov 20	(b)235,000	Nov 5, 1985
MAXIMUM PEAK STAGE			22.80	Nov 20	53.58	Nov 5, 1985
INSTANTANEOUS LOW FLOW			665	(c)	164	(d)
ANNUAL RUNOFF (CFSM)	2.24		1.63		1.09	
ANNUAL RUNOFF (INCHES)	30.47		22.18		14.80	
10 PERCENT EXCEEDS	15,600		10,700		7,790	
50 PERCENT EXCEEDS	4,840		3,740		1,820	
90 PERCENT EXCEEDS	1,750		1,170		452	

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 Sept. 6-8.

d Sept 10, 11, 1966.



01610400 WAITES RUN NEAR WARDENSVILLE, WV

LOCATION.--Lat 39°02'33.8", long 78°35'54.0", Hardy County, Hydrologic Unit 02070003, on left bank at downstream side of bridge on Waites Run Road, 2.6 mi south of Wardensville, 4.3 mi upstream from mouth, and 8.2 mi east of Baker.

DRAINAGE AREA.--12.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1240.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except those for estimated daily discharges (missing record), which are poor. U.S. Geological Survey gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 19	1315	615	5.40	Apr 26	1030	248	4.77
Dec 11	0130	385	5.06	May 16	2145	185	4.57
Feb 6	1515	146	4.38	Sep 8	1900	*1,160	*5.94
Apr 12	2115	176	4.52	Sep 18	0530	286	4.86
Apr 26	0400	226	4.71	Sep 28	1400	419	5.12

Minimum discharge, 1.1 ft³/s, Sept. 4, 5.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	16	28	22	e6.4	19	24	38	12	4.5	3.2	1.3
2	15	15	25	20	e6.4	22	36	46	10	4.4	2.5	1.2
3	14	14	23	19	e6.2	23	41	48	10	3.9	2.1	1.3
4	13	14	21	18	e6.0	24	38	38	9.3	5.9	1.9	1.2
5	12	14	21	17	5.9	24	34	34	31	9.8	1.8	1.2
6	11	16	20	16	54	38	31	31	17	6.5	1.8	1.9
7	10	16	18	14	56	36	29	36	14	4.5	1.6	2.0
8	9.6	14	17	e13	31	35	27	38	12	4.1	1.6	249
9	9.1	13	17	e12	25	32	25	32	10	3.5	1.5	102
10	8.7	13	26	e12	23	29	22	29	9.7	3.4	1.4	33
11	8.5	13	173	e12	22	26	20	25	18	3.5	1.4	21
12	8.2	34	67	e12	20	24	64	22	26	3.5	5.4	16
13	7.8	31	47	e11	20	21	111	19	15	4.1	9.7	13
14	21	27	42	e10	19	19	83	22	14	3.2	2.7	11
15	27	24	35	e10	18	18	62	24	19	2.8	2.3	10
16	16	22	32	e10	e16	19	50	52	20	2.6	2.1	8.7
17	15	20	44	e9.8	e14	19	43	77	16	2.5	2.0	28
18	15	18	35	e9.4	e14	21	37	47	15	2.8	1.9	147
19	13	142	30	e9.2	e16	35	33	43	13	2.7	1.8	59
20	12	91	27	e9.0	e17	27	30	35	12	2.4	1.8	39
21	12	56	24	e8.8	40	29	28	32	10	2.2	3.2	29
22	12	43	24	e8.8	35	25	24	28	9.9	2.5	2.6	23
23	11	35	30	e8.6	30	24	24	24	9.4	2.7	2.0	18
24	10	36	60	e8.4	29	23	22	20	8.1	2.3	1.7	16
25	9.8	34	54	e8.0	26	22	20	18	7.3	2.2	1.6	14
26	9.8	29	44	e7.8	22	20	150	21	6.9	2.8	1.6	12
27	23	27	37	e7.6	20	19	99	17	5.9	2.6	1.5	11
28	25	36	32	e7.2	19	18	66	18	5.3	2.5	1.5	144
29	21	35	29	e7.0	19	17	52	15	5.1	2.1	1.4	108
30	18	31	27	e6.8	---	16	44	13	4.7	1.9	1.5	63
31	17	---	24	e6.6	---	17	---	13	---	2.0	1.4	---
TOTAL	431.5	929	1,133	351.0	635.9	741	1,369	955	375.6	106.4	70.5	1,184.8
MEAN	13.9	31.0	36.5	11.3	21.9	23.9	45.6	30.8	12.5	3.43	2.27	39.5
MAX	27	142	173	22	56	38	150	77	31	9.8	9.7	249
MIN	7.8	13	17	6.6	5.9	16	20	13	4.7	1.9	1.4	1.2
CFSM	1.10	2.46	2.90	0.90	1.74	1.90	3.62	2.44	0.99	0.27	0.18	3.13
IN.	1.27	2.74	3.35	1.04	1.88	2.19	4.04	2.82	1.11	0.31	0.21	3.50

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	11.2	30.4	30.4	19.0	16.2	30.9	40.2	30.8	21.3	5.85	4.91	31.0
MAX	13.9	31.0	36.5	26.7	22.6	55.8	45.6	33.9	44.1	7.58	9.21	48.3
(WY)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	8.43	29.8	24.4	11.3	3.79	13.0	30.8	27.7	7.26	3.43	2.27	5.32
(WY)	(2003)	(2003)	(2003)	(2004)	(2002)	(2002)	(2002)	(2002)	(2002)	(2004)	(2004)	(2002)

01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

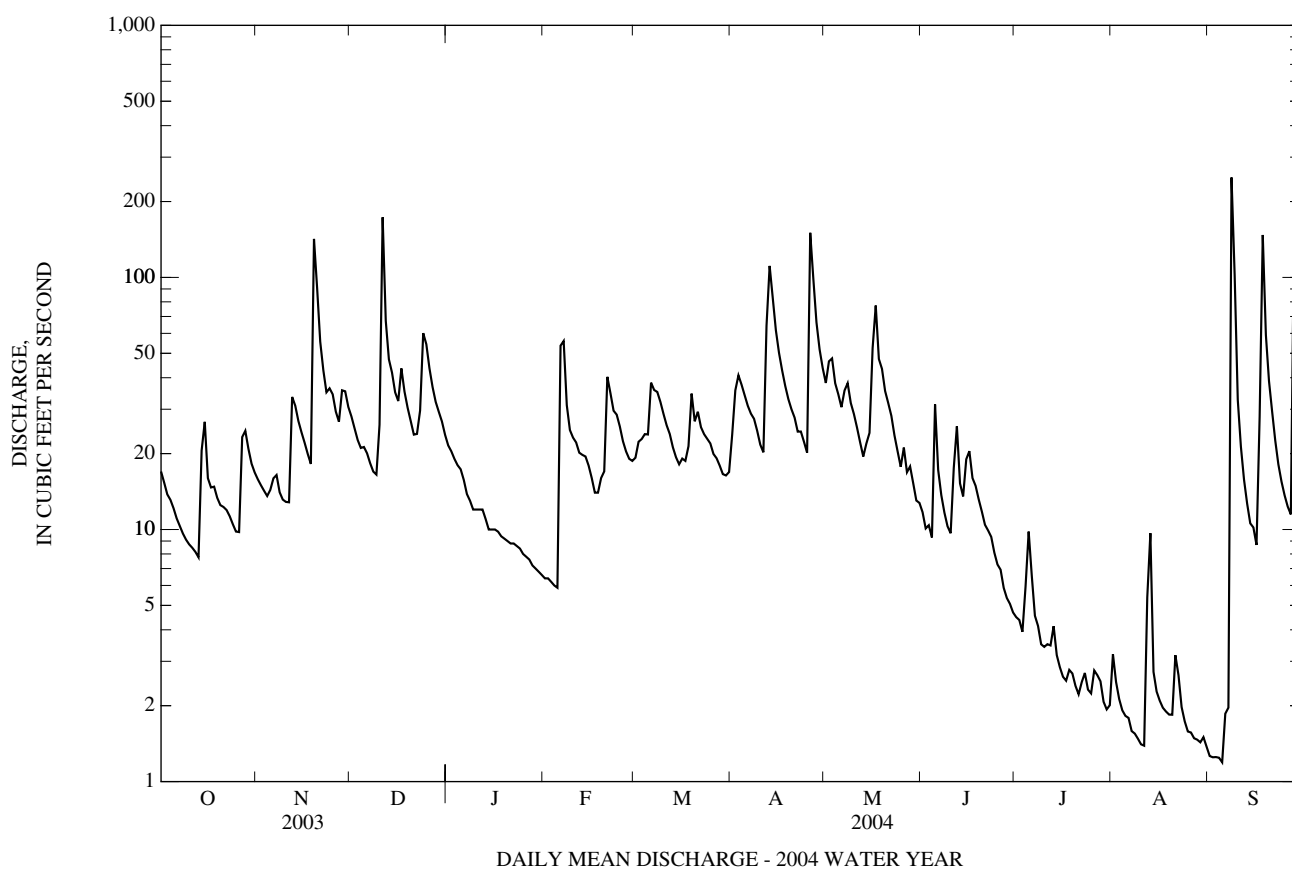
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	11,353.9		8,282.7		26.1	
ANNUAL MEAN	31.1		22.6		29.5	
HIGHEST ANNUAL MEAN					22.6	
LOWEST ANNUAL MEAN					22.6	
HIGHEST DAILY MEAN	679	Sep 19	249	Sep 8	679	Sep 19, 2003
LOWEST DAILY MEAN	3.4	Jul 27	1.2	(a)	(e)0.78	Sep 14, 2002
ANNUAL SEVEN-DAY MINIMUM	4.1	Jul 21	1.3	Aug 30	1.0	Sep 12, 2002
MAXIMUM PEAK FLOW			1,160	Sep 8	(b)1,380	Sep 19, 2003
MAXIMUM PEAK STAGE			5.94	Sep 8	6.09	Sep 19, 2003
INSTANTANEOUS LOW FLOW			1.1	(c)		
ANNUAL RUNOFF (CFSM)	2.47		1.80		2.07	
ANNUAL RUNOFF (INCHES)	33.52		24.45		28.11	
10 PERCENT EXCEEDS	66		43		54	
50 PERCENT EXCEEDS	20		17		18	
90 PERCENT EXCEEDS	5.2		2.3		3.8	

a Sept. 2, 4, 5.

e Estimated.

b From rating curve extended above 420 ft³/s.

c Sept. 4, 5.



01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2001 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 2002 to current year.

WATER TEMPERATURE: January 2002 to current year.

INSTRUMENTATION.--Water-quality monitor January 2002 to current year.

REMARKS.--Missing record due to instrument malfunction. Records good.

EXTREMES FOR PERIOD OF DAILY RECORD--

SPECIFIC CONDUCTANCE: Maximum, 109 microsiemens/cm, Sept. 10, 2002; minimum, 23 microsiemens/cm, Feb. 22, 2003.

WATER TEMPERATURE: Maximum, 24.5°C, July 3, 2002; minimum, 0.0°C, on many day during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sample type	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Sam- pling method, code (82398)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)
NOV 03...	1200	Environmental	1028	80020	14	40	734	9.2	89	7.0	45	27.0
JAN 05...	1200	Environmental	1028	80020	17	40	722	10.4	88	6.9	34	9.0
MAR 01...	1045	Environmental	1028	80020	18	40	733	13.3	104	6.8	38	14.0
APR 05...	1045	Environmental	1028	80020	34	40	731	13.5	105	5.8	31	3.5
MAY 03...	1130	Environmental	1028	80020	46	40	735	9.1	87	6.8	33	12.5
JUN 01...	1045	Environmental	1028	80020	12	40	725	9.1	96	6.9	46	22.0
JUL 06...	1142	Blank	1028	80020	--	--	--	--	--	--	--	--
06...	1215	Environmental	1028	80020	6.0	40	731	6.7	77	7.6	63	29.0
06...	1216	Replicate	1028	80020	--	40	--	--	--	--	--	--
SEP 02...	1000	Environmental	1028	80020	1.2	40	736	9.1	99	7.9	125	20.5

Date	Temper- ature, water, deg C (00010)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)	Chlor- ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, wat unf by anal ysis, mg/L (62855)	Total carbon, suspnd sedimnt total, mg/L (00694)
NOV 03...	13.5	12	14	.76	4.8	<.04	.07	<.008	<.02	<.006	.005	.15	.1
JAN 05...	8.0	11	14	.67	4.8	<.04	.19	<.008	<.02	<.006	.004	.22	.2
MAR 01...	3.5	11	14	.64	4.8	<.04	.28	E.004	<.02	<.006	.004	.30	<.1
APR 05...	3.0	9	11	.68	5.1	<.04	.45	<.008	<.02	<.006	E.003	.43	<.1
MAY 03...	11.5	8	10	.62	4.7	<.04	.28	<.008	<.02	<.006	.008	.39	.2
JUN 01...	15.5	15	18	.58	4.1	<.04	.17	<.008	<.02	<.006	.011	.24	.1
JUL 06...	--	--	--	--	--	--	--	--	<.02	--	--	--	<.1
06...	20.0	22	27	.75	4.7	<.04	.17	<.008	<.02	<.006	.010	.28	.4
06...	--	--	--	.64	4.6	--	--	--	.02	--	--	--	.3
SEP 02...	17.5	53	65	.74	5.0	<.04	E.06	<.008	<.02	E.003	.007	.12	.2

Agency Collecting Sample: 1028 - U.S. Geological Survey

Agency Analyzing Sample: 80020 - USGS-National Water Quality Lab, Denver, CO

01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
NOV 03...	<.1	.1	1.4	2	.08
JAN 05...	<.1	.2	1.5	2	.09
MAR 01...	<.1	<.1	1.1	1	.05
APR 05...	<.1	<.1	1.1	1	.09
MAY 03...	<.1	.2	2.3	3	.37
JUN 01...	<.1	.1	1.1	2	.06
JUL 06...	<.1	<.1	--	1	--
06...	<.1	.4	2.1	3	.05
06...	<.1	.3	--	--	--
SEP 02...	<.1	.2	.8	6	.02

Remark codes used in this table:

< -- Less than

E -- Estimated value

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV

LOCATION.--Lat 39°34'56", long 78°18'36", NAD 27, Morgan County, Hydrologic Unit 02070003, on left bank at Rock Ford, 3.0 mi southwest of Great Cacapon, and at mile 6.1.

DRAINAGE AREA.--675 mi².

PERIOD OF RECORD.--December 1922 to September 1995, October 1996 to current year.

REVISED RECORDS.--WSP 800: 1924(M). WSP 921: Drainage area. WSP 951: 1936-37. WSP 1552: 1925-26(M), 1928-1929(M), 1932. WDR WV-97-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 456.78 ft above NGVD 29 (U.S. Army Corps of Engineers bench mark). Prior to Nov. 10, 1933, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for periods of estimated daily discharges (ice effect, no gage-height record), which are poor. High end of rating not confirmed above 3,000 ft³/s since cableway removed in July 1992.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1889 reached a stage of about 24.7 ft, from floodmarks, discharge, 57,500 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 20	1000	9,160	10.25	Apr 14	1230	8,780	10.04
Dec 11	1800	*14,000	*12.54	Apr 27	0230	10,800	11.07
Dec 25	0530	3,990	6.88	Sep 9	1330	9,980	10.68
Feb 7	1100	11,400	11.39	Sep 18	2130	6,370	8.61
Apr 2	1930	4,000	6.89	Sep 29	1000	9,150	10.24

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	652	619	1,500	920	411	1,090	802	1,470	632	217	442	86
2	570	546	1,240	831	374	1,240	3,280	1,270	596	207	266	86
3	497	496	1,020	791	e360	1,450	3,540	2,220	511	201	297	85
4	439	457	873	760	e350	1,280	2,650	2,590	439	202	235	84
5	414	433	814	733	411	1,200	2,010	1,860	461	294	195	82
6	389	433	820	720	656	1,230	1,620	1,530	1,010	933	175	82
7	358	456	786	655	5,410	1,660	1,330	1,260	779	562	156	82
8	329	520	718	561	3,600	1,590	1,140	1,150	586	390	146	148
9	303	479	660	499	2,080	1,430	1,050	1,150	477	301	139	4,160
10	285	428	640	494	1,670	1,220	945	913	411	252	136	2,170
11	268	400	7,350	410	1,530	1,050	813	783	378	223	131	e1,020
12	254	730	6,130	465	1,530	921	803	696	1,200	216	129	e634
13	243	2,550	2,920	504	1,380	828	5,210	629	1,880	226	153	e451
14	242	1,950	2,100	481	1,270	735	7,440	599	1,490	223	167	e363
15	350	1,510	1,830	449	1,240	668	4,020	636	982	214	213	e315
16	898	1,160	1,560	433	1,070	635	2,350	899	1,190	199	203	e271
17	636	931	1,380	385	859	648	1,830	1,020	1,040	183	170	535
18	516	770	1,650	426	786	729	1,540	1,360	751	175	149	3,160
19	488	760	1,620	498	738	801	1,300	1,910	644	172	139	3,540
20	443	5,690	1,400	538	983	1,230	1,120	2,140	546	166	133	1,690
21	397	3,280	1,190	472	2,150	1,370	1,040	1,640	467	161	135	1,080
22	369	2,060	1,020	432	3,190	1,490	983	2,140	417	159	129	758
23	346	1,630	1,080	e390	2,170	1,280	865	1,590	379	162	125	580
24	331	1,350	2,170	e360	1,850	1,090	821	1,140	357	167	118	467
25	313	1,310	3,580	e340	1,700	961	886	853	331	169	113	394
26	293	1,290	2,440	e330	1,500	855	2,990	704	304	168	106	346
27	363	1,060	1,880	e430	1,260	767	8,050	716	278	172	103	312
28	1,070	971	1,580	556	1,120	707	3,530	889	269	171	99	565
29	1,320	1,460	1,340	525	1,050	652	2,210	924	249	157	96	6,260
30	980	1,750	1,190	470	---	596	1,760	908	230	152	93	3,060
31	755	---	1,070	440	---	583	---	706	---	151	89	---
TOTAL	15,111	37,479	55,551	16,298	42,698	31,986	67,928	38,295	19,284	7,345	4,980	32,866
MEAN	487	1,249	1,792	526	1,472	1,032	2,264	1,235	643	237	161	1,096
MAX	1,320	5,690	7,350	920	5,410	1,660	8,050	2,590	1,880	933	442	6,260
MIN	242	400	640	330	350	583	802	599	230	151	89	82
CFSM	0.72	1.85	2.65	0.78	2.18	1.53	3.35	1.83	0.95	0.35	0.24	1.62
IN.	0.83	2.07	3.06	0.90	2.35	1.76	3.74	2.11	1.06	0.40	0.27	1.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2004, BY WATER YEAR (WY)

	325	378	529	636	890	1,286	1,132	866	441	194	233	205
MAX	2,976	2,577	2,121	1,751	3,234	5,708	2,976	3,565	3,525	936	2,791	1,698
(WY)	(1943)	(1986)	(1973)	(1998)	(1998)	(1936)	(1987)	(1924)	(1972)	(1972)	(1955)	(2003)
MIN	44.8	51.1	56.5	69.6	89.1	247	242	157	72.5	53.8	39.8	39.4
(WY)	(1931)	(1966)	(1966)	(1956)	(1934)	(1990)	(1947)	(1969)	(1999)	(1999)	(1966)	(1932)

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV—Continued

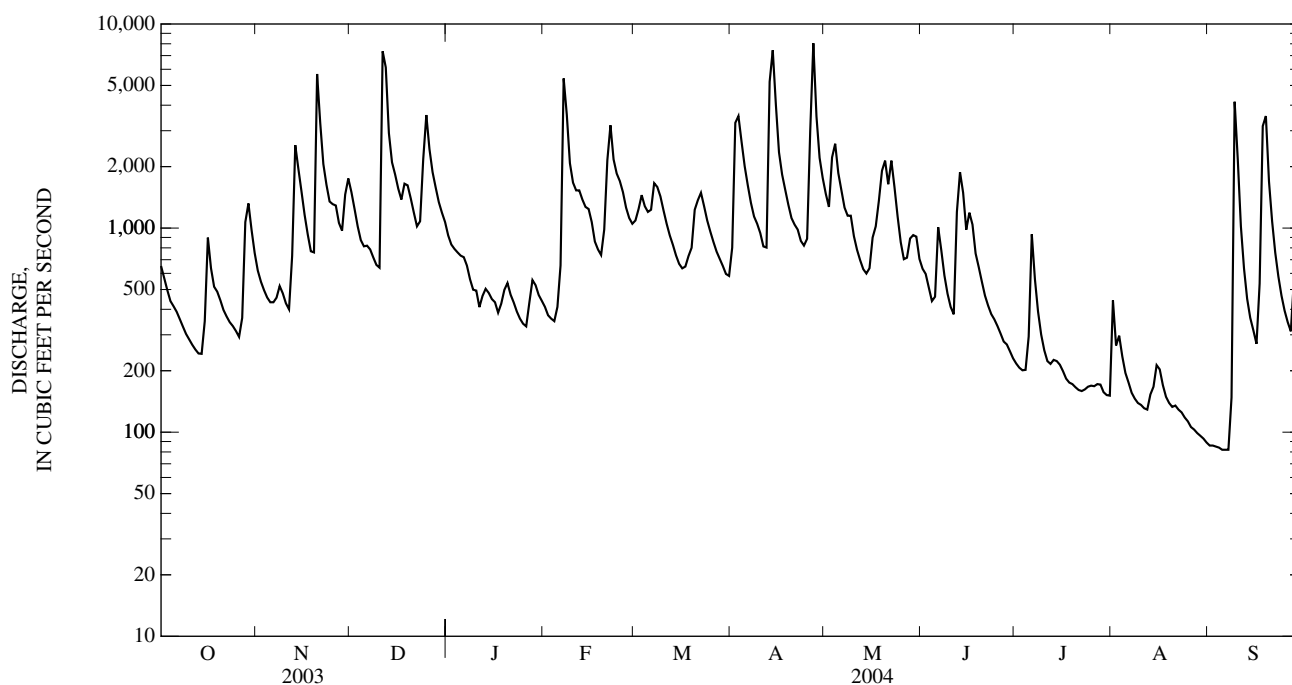
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1923 - 2004	
ANNUAL TOTAL	481,707		369,821		595	
ANNUAL MEAN	1,320		1,010		1,192	
HIGHEST ANNUAL MEAN					180	
LOWEST ANNUAL MEAN					67,900	
HIGHEST DAILY MEAN	14,900	Sep 20	8,050	Apr 27	26	Mar 18, 1936
LOWEST DAILY MEAN	147	Sep 1	82	(a)	28	Sep 12, 1966
ANNUAL SEVEN-DAY MINIMUM	154	Aug 27	84	Sep 1	28	Sep 7, 1966
MAXIMUM PEAK FLOW			14,000	Dec 11	(b)87,600	Mar 18, 1936
MAXIMUM PEAK STAGE			12.54	Dec 11	30.10	Mar 18, 1936
INSTANTANEOUS LOW FLOW			80	Sep 5	26	(c)
ANNUAL RUNOFF (CFSM)	1.96		1.50		0.881	
ANNUAL RUNOFF (INCHES)	26.55		20.38		11.97	
10 PERCENT EXCEEDS	2,610		2,090		1,370	
50 PERCENT EXCEEDS	814		705		247	
90 PERCENT EXCEEDS	216		167		68	

a Sept. 5-7.

b From rating curve extended above 52,000 ft³/s.

c Sept. 11-13, 1966.

e Estimated.



01613000 POTOMAC RIVER AT HANCOCK, MD

LOCATION.--Lat 39°41'51.2", long 78°10'40.4", Washington County, Hydrologic Unit 02070004, on left bank, 0.2 mi downstream from Little Tonoloway Creek, 0.5 mi downstream from bridge on U.S. Highway 522 at Hancock, 1.1 mi upstream from Tonoloway Creek (formerly called Great or Big Tonoloway Creek), and at mile 239. DRAINAGE AREA.--4,090 mi².

PERIOD OF RECORD.--October 1932 to current year. Gage-height records collected at same site since June 1925 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 781: 1933(M). WDR WV-97-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 383.68 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1932, to Jan. 5, 1935, Mar. 18, 1936, to Jan. 20, 1937, nonrecording gage, on former highway bridge just upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges (ice effect), which are fair. Slight regulation at low flow from power plants upstream. Low flow affected slightly 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 prior to 1932, about 40 ft in May 1889, discharge, about 220,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 23,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 20	2230	*45,100	*18.97	Apr 27	0730	26,400	14.17
Dec 12	0000	40,200	17.80	Sep 9	2230	32,800	15.93
Feb 7	1030	37,300	17.09	Sep 18	0630	37,100	17.03
Apr 14	1630	42,200	18.30	Sep 29	2000	29,400	15.02

Minimum discharge, 606 ft³/s, Sept. 7, 8.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,960	3,610	6,590	6,110	e1,750	6,760	5,090	7,190	4,100	1,280	6,760	878
2	4,690	3,240	5,830	5,650	e1,700	8,100	17,100	6,310	3,730	1,200	4,960	740
3	3,990	2,990	5,240	5,470	e1,700	12,700	18,200	7,230	3,230	1,140	2,850	684
4	3,510	2,790	4,780	5,660	e1,700	13,100	14,200	8,950	2,850	1,100	2,020	652
5	3,240	2,650	4,470	6,610	e2,100	13,800	11,700	7,550	2,750	1,690	1,640	639
6	3,470	2,670	4,500	8,000	7,950	15,700	9,260	6,490	3,010	2,290	1,420	625
7	3,190	2,920	4,410	7,950	24,900	18,500	7,540	5,680	3,050	2,000	1,260	613
8	2,490	3,280	4,130	6,880	22,600	16,400	6,730	5,190	2,790	1,510	1,100	1,100
9	2,210	3,250	3,890	6,240	13,600	12,900	6,620	4,940	2,400	1,350	1,010	23,800
10	2,060	3,030	3,720	5,410	10,200	10,700	6,610	4,330	2,120	1,240	956	19,700
11	1,940	2,860	21,100	4,770	9,230	9,250	5,640	3,910	2,010	1,110	898	9,000
12	1,830	5,070	32,700	e4,500	9,220	8,130	5,290	3,430	3,300	1,220	812	6,510
13	2,270	15,200	18,000	e4,400	8,510	6,790	17,100	3,200	8,180	1,890	858	5,270
14	2,070	14,200	12,500	e3,900	8,220	5,910	37,900	3,240	6,810	2,020	1,070	4,180
15	2,150	11,400	10,400	e3,200	8,050	5,310	30,500	3,520	5,170	1,560	1,120	2,690
16	3,770	9,080	8,860	e2,900	7,240	5,010	17,600	3,890	4,340	1,300	1,620	2,430
17	3,770	7,750	7,740	e2,700	6,450	4,970	12,500	3,930	4,050	1,160	1,420	3,770
18	3,410	6,780	7,810	e2,500	5,750	5,220	9,770	4,300	4,280	1,060	916	28,800
19	3,200	6,610	8,070	e2,400	4,750	6,560	8,200	7,680	4,010	1,030	836	18,800
20	2,990	31,900	7,140	e2,250	5,490	9,170	7,140	9,070	3,660	1,120	824	10,100
21	2,730	30,400	6,230	e2,150	9,060	10,400	6,430	7,100	3,270	1,080	1,020	6,880
22	2,560	16,500	5,580	e2,050	15,200	13,400	5,880	7,630	2,830	996	1,040	4,990
23	2,410	12,200	5,740	e2,000	12,300	11,900	5,450	7,360	2,410	1,020	1,010	3,940
24	2,310	9,800	10,600	e2,000	10,000	9,530	5,070	6,300	2,130	1,210	929	3,270
25	2,190	8,670	17,700	e1,950	9,030	8,100	4,750	4,830	1,960	1,210	822	2,820
26	2,070	7,890	14,800	e1,900	8,070	6,980	9,150	4,230	1,890	1,110	790	2,580
27	2,320	6,750	11,400	e1,900	7,150	6,260	24,200	3,840	1,930	1,060	757	2,340
28	4,430	6,240	9,440	e1,850	6,610	5,670	16,800	3,800	1,740	1,340	737	3,800
29	5,380	6,600	8,150	e1,800	6,460	5,080	11,400	4,340	1,520	1,640	710	20,400
30	4,710	7,160	7,290	e1,800	---	4,650	8,780	6,090	1,390	1,310	693	18,500
31	4,090	---	6,650	e1,750	---	4,470	---	5,060	---	2,050	833	---
TOTAL	97,410	253,490	285,460	118,650	244,990	281,420	352,600	170,610	96,910	42,296	43,691	210,501
MEAN	3,142	8,450	9,208	3,827	8,448	9,078	11,750	5,504	3,230	1,364	1,409	7,017
MAX	5,960	31,900	32,700	8,000	24,900	18,500	37,900	9,070	8,180	2,290	6,760	28,800
MIN	1,830	2,650	3,720	1,750	1,700	4,470	4,750	3,200	1,390	996	693	613
CFSM	0.77	2.07	2.25	0.94	2.07	2.22	2.87	1.35	0.79	0.33	0.34	1.72
IN.	0.89	2.31	2.60	1.08	2.23	2.56	3.21	1.55	0.88	0.38	0.40	1.91
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2004, BY WATER YEAR (WY)

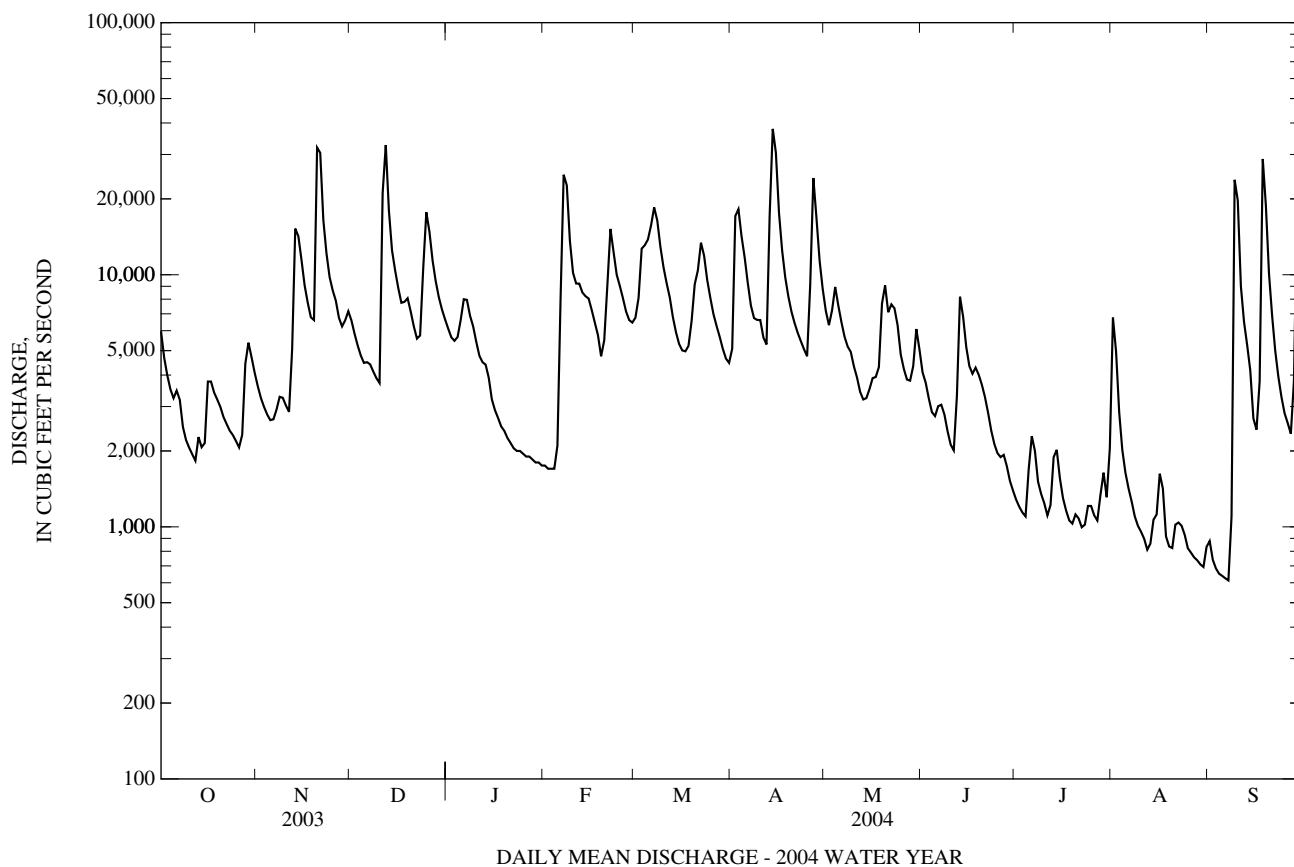
	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
MEAN	1,988	2,584	4,022	5,054	6,532	9,368	7,699	5,589	3,199	1,586	1,600	1,620
MAX	13,270	20,090	15,160	17,180	17,560	32,280	19,170	13,260	13,390	6,677	9,479	15,100
(WY)	(1977)	(1986)	(1973)	(1996)	(1998)	(1936)	(1993)	(1988)	(1972)	(1949)	(1955)	(1996)
MIN	309	399	463	751	955	2,311	2,286	1,344	622	357	342	329
(WY)	(1942)	(1966)	(1966)	(1956)	(2002)	(1990)	(1995)	(1941)	(1969)	(1966)	(1944)	(1946)

01613000 POTOMAC RIVER AT HANCOCK, MD—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1933 - 2004	
ANNUAL TOTAL	3,003,890		2,198,028		4,225	
ANNUAL MEAN	8,230		6,006		7,932	
HIGHEST ANNUAL MEAN					1,770	
LOWEST ANNUAL MEAN					261,000	
HIGHEST DAILY MEAN	70,000	Sep 20	37,900	Apr 14	184	Mar 18, 1936
LOWEST DAILY MEAN	1,070	Aug 25	613	Sep 7	215	Oct 3, 1932
ANNUAL SEVEN-DAY MINIMUM	1,190	Aug 24	690	Sep 1	(a)340,000	Sep 7, 1966
MAXIMUM PEAK FLOW			45,100	Nov 20	47.60	Mar 18, 1936
MAXIMUM PEAK STAGE			18.97	Nov 20	180	Oct 4, 1932
INSTANTANEOUS LOW FLOW			606	(b)	1.03	
ANNUAL RUNOFF (CFSM)	2.01		1.47		14.03	
ANNUAL RUNOFF (INCHES)	27.32		19.99		9,670	
10 PERCENT EXCEEDS	18,900		12,800		2,190	
50 PERCENT EXCEEDS	5,740		4,420		546	
90 PERCENT EXCEEDS	1,840		1,110			

a From rating curve extended above 120,000 ft³/s on basis of slope-area measurement of peak flow.

b Sept. 7, 8.



01613020 UNNAMED TRIBUTARY TO WARM SPRINGS RUN NEAR BERKELEY SPRINGS, WV
(Detention Reservoir)

LOCATION.-- Lat 39°36'21.2" long 78°13'45.2", NAD 83, Morgan County, Hydrologic Unit 02070004

DAM NAME.--Warm Springs # 3

SURFACE AREA.--1+ acres

DRAINAGE AREA.--0.46 mi².

PERIOD OF RECORD.--September 2004 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 689.05 ft above NGVD 29.

REMARKS.-- Normal Pool = 43.45 ft (Normal Storage = 6 acre-ft)

Top of Riser = 61.50 ft

Emergency Spillway = 63.55 ft

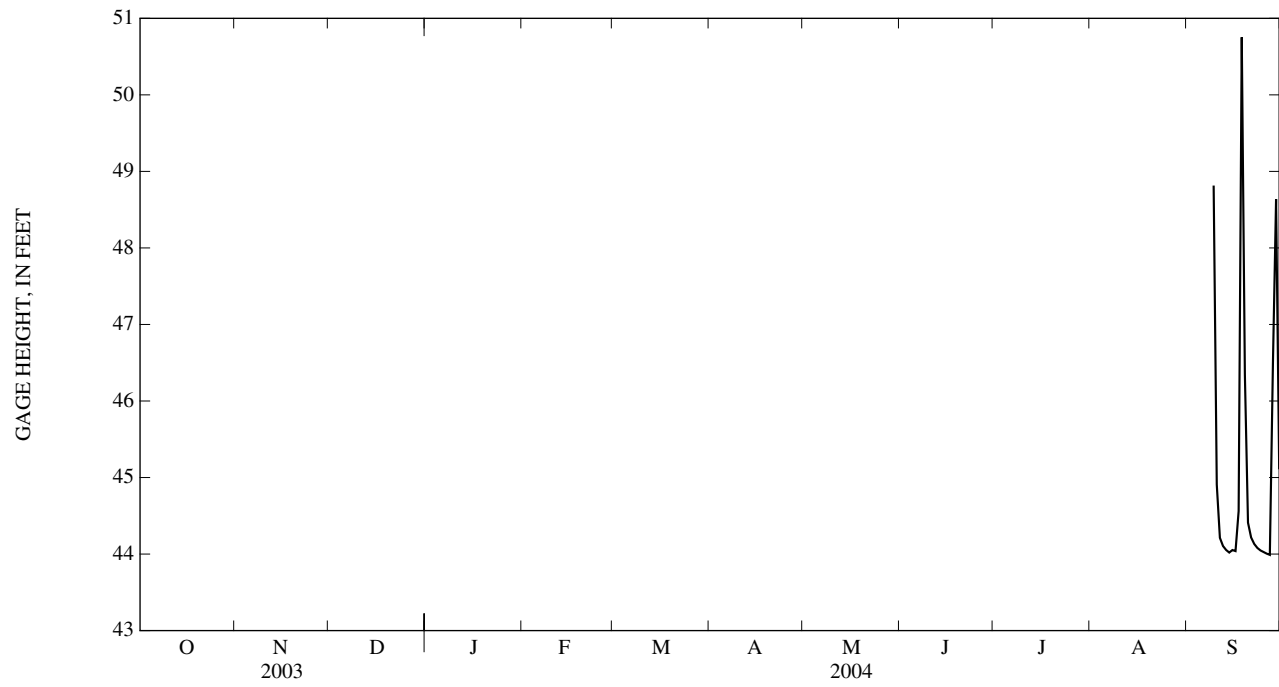
Top of Dam = 70.45 ft

EXTREMES FOR SEPTEMBER 2004 (PARTIAL).--Maximum gage height, 51.94 ft, Sept. 18; minimum gage height, 43.85 ft, Sept. 8.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

[illegible]

01613020 UNNAMED TRIBUTARY TO WARM SPRINGS RUN NEAR BERKELEY SPRINGS, WV—Continued



01616500 OPEQUON CREEK NEAR MARTINSBURG, WV

LOCATION.--Lat 39°25'25", long 77°56'20", NAD 27, Berkeley County, Hydrologic Unit 02070004, on right bank 300 ft upstream from Evans Run, 2.3 mi upstream from Tuscarora Creek, 3.0 mi southeast of Martinsburg, and at mile 11.6.

DRAINAGE AREA.--273 mi².

PERIOD OF RECORD.--May 1905 to July 1906, July 1947 to current year.

REVISED RECORDS.--WSP 1702: 1959. WDR WV-97-1: Drainage area, 1936(M), 1967(M), 1968(P), 1969(M).

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 354.89 ft above NGVD 29. Prior to July 1906, nonrecording gage at approximately the same site at different datum. July 23, 1947 to July 22, 1948, nonrecording gage at present site and datum.

REMARKS.--Records fair. Some diurnal fluctuation at low flow caused by upstream mills in Virginia and since July 18, 1988, by wastewater treatment plant, 1,000 ft upstream from Opequon Creek near Berryville, Va (01615000); drainage area 57.4 mi².

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a stage of about 17.5 ft, from information by local residents, estimated discharge, 19,100 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 20	1130	2,980	10.45	Apr 27	0200	2,080	9.07
Dec 12	0000	6,170	12.71	Jul 19	0000	1,930	8.77
Feb 7	0800	3,020	10.49	Sep 18	2030	4,140	11.43
Apr 13	1500	2,710	10.13	Sep 29	1530	*6,980	*13.21

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	243	405	367	179	401	309	404	313	187	267	103
2	259	222	347	363	176	397	768	388	293	188	196	101
3	240	207	311	361	185	383	840	494	270	188	163	100
4	242	200	292	343	233	367	636	399	254	182	148	99
5	238	195	299	335	240	361	473	352	804	217	139	98
6	223	243	310	332	823	500	396	327	756	217	134	97
7	213	260	302	304	2,300	651	359	307	464	200	129	101
8	205	236	286	285	1,100	506	333	386	365	202	125	126
9	199	208	281	280	715	428	322	330	321	180	125	778
10	193	195	312	267	586	387	298	293	294	167	123	338
11	188	190	4,080	245	716	357	284	289	294	162	120	187
12	185	402	2,920	253	661	339	360	263	652	174	151	153
13	179	624	823	251	619	314	2,100	246	466	242	358	138
14	193	380	675	248	664	298	1,770	260	397	225	216	129
15	483	300	630	243	557	292	911	326	356	183	160	129
16	325	262	582	229	475	288	642	354	519	166	141	128
17	252	240	565	214	416	302	531	425	377	159	132	171
18	241	226	629	232	388	286	459	329	321	564	127	2,620
19	228	563	534	240	417	337	413	655	292	779	125	1,170
20	208	2,090	474	218	713	337	382	651	264	302	122	426
21	200	720	425	201	914	334	370	479	248	218	127	315
22	195	492	404	205	845	305	351	840	239	191	128	262
23	189	402	528	196	649	282	336	509	238	248	122	226
24	183	363	961	200	590	269	475	408	230	256	118	205
25	177	483	1,030	194	571	261	361	368	219	193	114	189
26	175	406	677	186	500	255	995	364	228	181	111	180
27	213	352	556	222	456	250	1,470	340	214	173	109	171
28	306	367	485	206	426	241	718	371	204	166	111	1,130
29	311	703	445	186	406	230	533	330	199	153	108	5,690
30	328	493	425	183	---	224	451	295	191	145	107	1,010
31	273	---	388	174	---	236	---	286	---	142	105	---
TOTAL	7,317	12,267	21,381	7,763	17,520	10,418	18,646	12,068	10,282	6,950	4,461	16,570
MEAN	236	409	690	250	604	336	622	389	343	224	144	552
MAX	483	2,090	4,080	367	2,300	651	2,100	840	804	779	358	5,690
MIN	175	190	281	174	176	224	284	246	191	142	105	97
CFSM	0.86	1.50	2.53	0.92	2.21	1.23	2.28	1.43	1.26	0.82	0.53	2.02
IN.	1.00	1.67	2.91	1.06	2.39	1.42	2.54	1.64	1.40	0.95	0.61	2.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2004, BY WATER YEAR (WY)

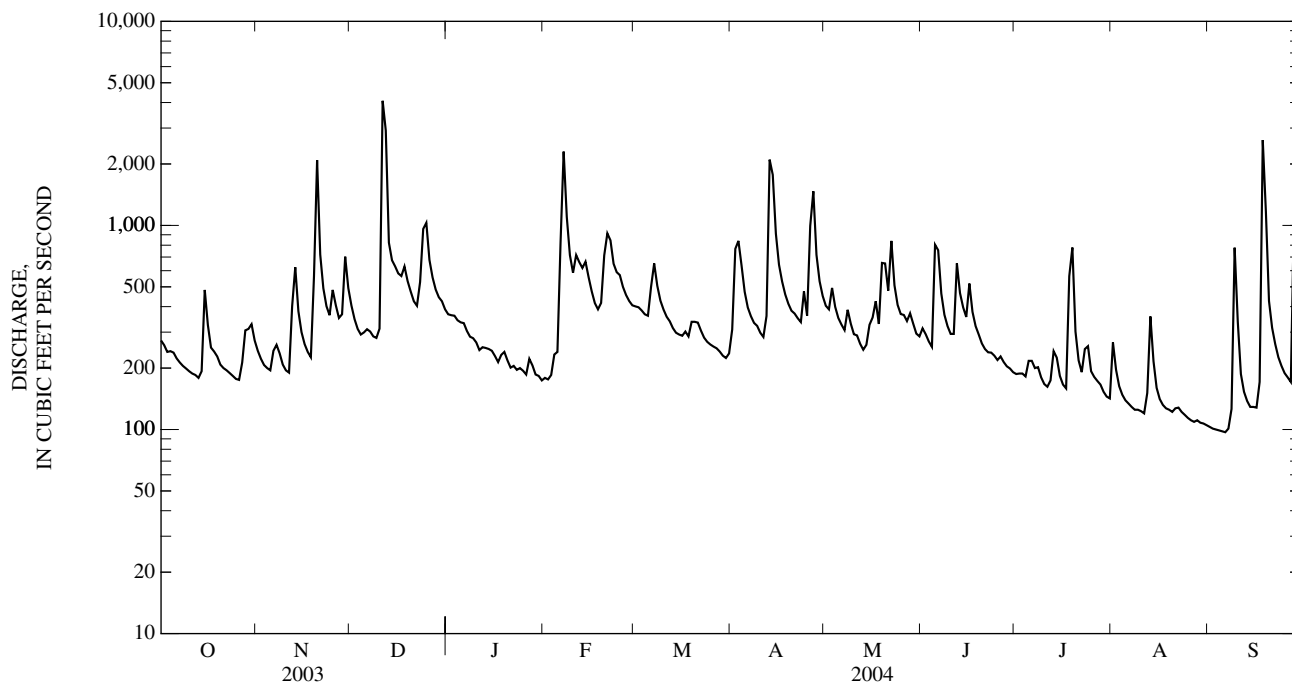
MEAN	150	177	247	284	348	454	380	281	223	143	138	142
MAX	788	609	821	1,337	1,269	1,461	1,199	1,091	1,190	456	772	970
(WY)	(1977)	(1997)	(1973)	(1996)	(1998)	(1993)	(1984)	(1988)	(1972)	(1972)	(1996)	(1996)
MIN	30.5	35.1	33.7	39.6	49.9	97.2	97.8	86.0	62.3	49.4	36.6	35.2
(WY)	(1948)	(1966)	(1966)	(1966)	(2002)	(2002)	(1954)	(1969)	(1999)	(1966)	(1966)	(1947)

01616500 OPEQUON CREEK NEAR MARTINSBURG, WV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1947 - 2004	
ANNUAL TOTAL	189,510		145,643		247	
ANNUAL MEAN	519		398		85.7	
HIGHEST ANNUAL MEAN					581	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	4,740	Jun 22	5,690	Sep 29	(e)15,000	Jan 20, 1996
LOWEST DAILY MEAN	146	Aug 25	97	Sep 6	26	Oct 25, 1947
ANNUAL SEVEN-DAY MINIMUM	159	Aug 21	100	Sep 1	27	Sep 7, 1966
MAXIMUM PEAK FLOW			6,980	Sep 29	(a)23,400	Jan 20, 1996
MAXIMUM PEAK STAGE			13.21	Sep 29	18.76	Jan 20, 1996
INSTANTANEOUS LOW FLOW			93	Sep 6	25	Oct 25, 1947
ANNUAL RUNOFF (CFSM)	1.90		1.46		0.904	
ANNUAL RUNOFF (INCHES)	25.82		19.85		12.29	
10 PERCENT EXCEEDS	1,000		667		489	
50 PERCENT EXCEEDS	365		292		142	
90 PERCENT EXCEEDS	183		144		57	

a From rating curve extended above 7,100 ft³/s.

e Estimated.



01636500 SHENANDOAH RIVER AT MILLVILLE, WV

LOCATION.--Lat 39°16'55", long 77°47'22", NAD 27, Jefferson County, Hydrologic Unit 02070007, on left bank 0.4 mi downstream from Cattail Run, 1.0 mi upstream from Millville, 5.0 mi upstream from Harpers Ferry, and at mile 4.7.

DRAINAGE AREA.--3,022 mi².

PERIOD OF RECORD.--April 1895 to March 1909, August 1928 to current year.

REVISED RECORDS.--WSP 951: 1936(M). WSP 1432: Drainage area at former site, 1895-99, 1901-02, 1905, 1907-08, 1932(M), 1935(M). WDR WV-97-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 293.00 ft above NGVD 29. Apr. 15, 1895, to Mar. 31, 1909, nonrecording gage at site 0.8 mi downstream at datum 0.32 ft higher.

REMARKS.--Records good except those for periods of estimated daily discharges (doubtful or no gage-height record), which are poor. Some regulation by upstream hydroelectric plants, including that of Potomac Light and Power Company, 0.5 mi upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1870 reached practically same stage as flood of Mar. 18, 1936, 26.36 ft, discharge, 151,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 21	0500	26,300	10.87	Sep 10	1400	17,600	8.91
Dec 12	0830	31,100	11.83	Sep 19	0830	15,100	8.24
Feb 8	0200	18,700	9.17	Sep 30	0630	*44,500	*14.15
Apr 15	0630	20,400	9.59				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5,000	2,410	e4,800	4,700	2,410	3,450	2,710	4,200	2,670	1,310	1,060	720
2	e4,600	2,270	4,660	4,430	2,670	3,360	3,460	3,930	2,430	1,270	997	795
3	e4,200	2,220	4,320	4,210	2,470	3,220	4,730	5,260	2,290	1,230	959	709
4	e3,800	2,130	3,990	4,020	2,490	3,160	4,530	4,960	2,130	1,260	990	683
5	e3,550	2,100	3,890	3,850	2,650	3,130	4,060	4,760	3,540	1,510	1,050	681
6	e3,350	2,270	3,910	3,740	3,410	3,470	3,640	4,340	3,580	2,250	1,070	669
7	e3,150	2,320	3,820	3,560	10,000	4,270	3,340	3,970	3,390	2,970	961	640
8	e3,000	3,390	3,640	3,390	16,700	4,280	3,100	4,380	3,330	2,100	906	755
9	e2,850	4,090	3,440	3,210	11,200	4,200	2,990	3,930	2,690	1,650	1,020	1,850
10	e2,700	3,440	3,400	3,090	8,080	4,060	2,890	3,560	2,350	1,430	897	15,800
11	e2,550	3,010	16,200	2,910	7,400	3,830	2,770	3,190	2,140	1,370	945	9,920
12	e2,500	2,810	28,200	2,840	7,310	3,590	2,720	2,890	2,500	1,300	1,080	6,050
13	e2,450	3,160	17,400	2,850	6,720	3,370	6,580	2,730	2,850	1,310	987	4,330
14	e2,450	4,330	11,900	2,830	6,220	3,150	16,300	2,580	2,780	1,330	1,020	3,270
15	e2,900	6,100	9,670	2,770	5,940	3,000	19,000	2,400	2,730	1,690	956	2,630
16	e3,500	5,030	8,330	2,690	5,470	2,850	13,400	2,420	2,640	1,630	1,110	2,180
17	e3,300	4,380	7,420	2,570	4,960	2,930	9,600	2,980	2,690	1,450	1,200	1,810
18	e2,900	3,960	8,240	2,550	4,560	3,140	7,530	3,190	2,880	1,320	1,030	7,520
19	e2,650	4,140	8,940	2,450	4,240	3,650	6,250	3,550	2,610	1,370	952	13,800
20	e2,500	11,200	7,720	2,510	4,220	3,730	5,380	3,660	2,220	1,360	965	9,980
21	e2,450	22,300	6,630	2,540	4,580	3,860	4,910	3,600	2,110	1,240	890	6,620
22	e2,350	13,300	5,890	2,350	5,460	3,910	4,490	3,830	1,920	1,250	852	4,830
23	e2,300	9,330	5,420	2,350	5,730	3,820	4,160	3,390	1,830	1,260	908	3,800
24	e2,250	7,310	5,740	2,240	5,220	3,620	3,980	3,010	1,760	1,250	853	3,060
25	2,140	6,710	7,360	2,180	4,860	3,360	3,750	2,850	1,700	1,100	834	2,510
26	2,070	5,980	8,450	1,840	4,520	3,190	3,680	2,630	1,670	1,160	820	2,190
27	2,160	5,220	7,670	1,880	4,180	3,020	6,300	2,380	1,600	1,250	782	1,950
28	2,350	e4,700	6,670	1,980	3,860	2,910	6,300	2,340	1,530	1,210	743	2,370
29	2,580	e4,610	5,960	2,360	3,650	2,790	5,260	2,430	1,470	1,110	759	24,300
30	2,760	e5,000	5,410	2,700	---	2,680	4,640	2,890	1,450	1,110	719	36,400
31	2,540	---	4,950	2,430	---	2,630	---	2,900	---	1,070	678	---
TOTAL	89,850	159,220	234,040	90,020	161,180	105,630	172,450	105,130	71,480	44,120	28,993	172,822
MEAN	2,898	5,307	7,550	2,904	5,558	3,407	5,748	3,391	2,383	1,423	935	5,761
MAX	5,000	22,300	28,200	4,700	16,700	4,280	19,000	5,260	3,580	2,970	1,200	36,400
MIN	2,070	2,100	3,400	1,840	2,410	2,630	2,710	2,340	1,450	1,070	678	640
CFSM	0.96	1.76	2.50	0.96	1.84	1.13	1.90	1.12	0.79	0.47	0.31	1.91
IN.	1.11	1.96	2.88	1.11	1.98	1.30	2.12	1.29	0.88	0.54	0.36	2.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2004, BY WATER YEAR (WY)

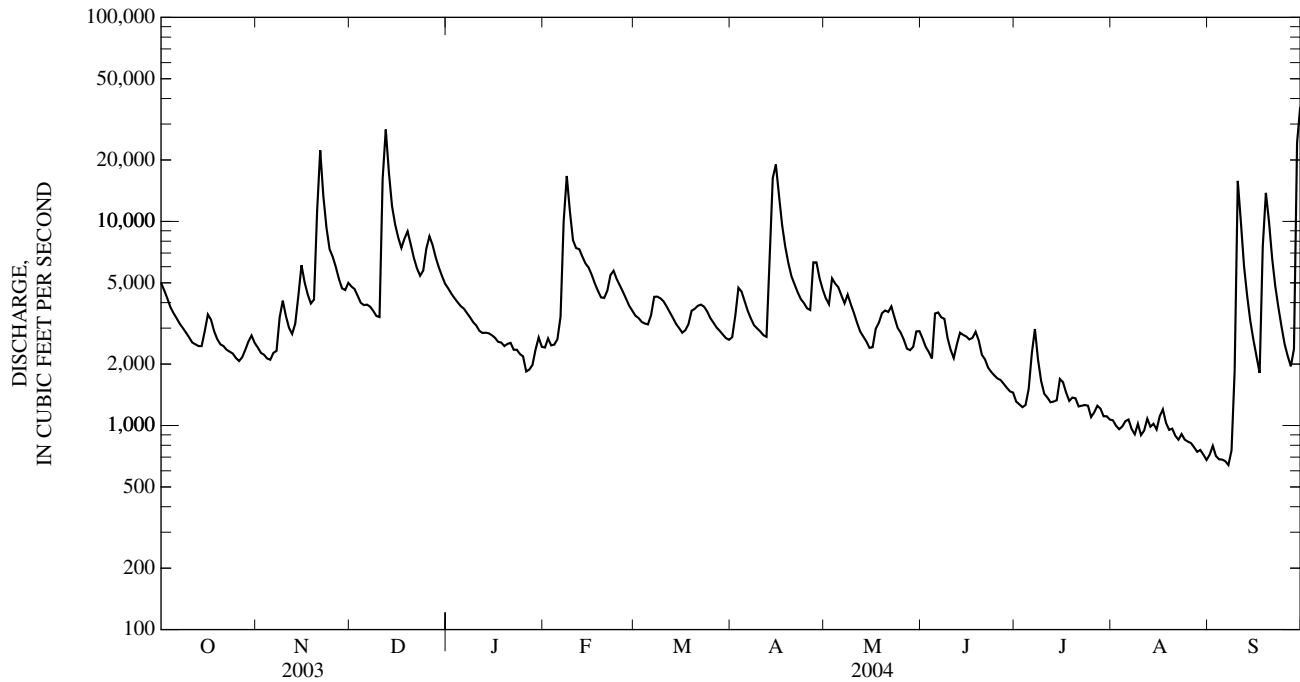
MEAN	1,934	1,896	2,528	3,212	3,916	5,039	4,399	3,358	2,445	1,453	1,616	1,594
MAX	16,250	13,350	8,164	13,470	18,100	17,540	12,840	8,701	10,380	4,809	10,390	14,780
(WY)	(1943)	(1986)	(1973)	(1996)	(1998)	(1936)	(1901)	(1901)	(1972)	(1972)	(1955)	(1996)
MIN	343	388	410	475	471	929	992	1,001	643	402	388	411
(WY)	(1931)	(1932)	(1966)	(2002)	(2002)	(1931)	(1981)	(1969)	(1999)	(1966)	(1930)	(1963)

01636500 SHENANDOAH RIVER AT MILLVILLE, WV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1895 - 2004	
ANNUAL TOTAL	2,237,230		1,434,935		2,776	
ANNUAL MEAN	6,129		3,921		5,618	
HIGHEST ANNUAL MEAN					927	
LOWEST ANNUAL MEAN					192,000	
HIGHEST DAILY MEAN	60,600	Sep 20	36,400	Sep 30	192,000	Oct 16, 1942
LOWEST DAILY MEAN	1,350	Feb 18	640	Sep 7	194	Jul 24, 1930
ANNUAL SEVEN-DAY MINIMUM	1,400	Feb 12	700	Sep 1	240	Sep 7, 1966
MAXIMUM PEAK FLOW			44,500	Sep 30	230,000	Oct 16, 1942
MAXIMUM PEAK STAGE			14.15	Sep 30	(a)32.40	Oct 16, 1942
INSTANTANEOUS LOW FLOW			473	Sep 9	59	Oct 4, 1930
ANNUAL RUNOFF (CFSM)	2.03		1.30		0.919	
ANNUAL RUNOFF (INCHES)	27.54		17.66		12.48	
10 PERCENT EXCEEDS	12,600		6,900		5,630	
50 PERCENT EXCEEDS	4,490		3,000		1,620	
90 PERCENT EXCEEDS	1,840		1,070		610	

a From floodmarks.

e Estimated.



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 mi².

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 National Geodetic Vertical Datum of 1929. Prior to Oct. 28, 1929, nonrecording gage at same site. Prior to Sept. 2, 1902, at datum about 0.45 ft higher.

REMARKS.--Records good, except those for estimated daily discharges (erroneous or missing record, ice effect), which are fair. 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. U.S. Geological Survey 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.--Flood of June 2, 1889, reached a stage of 40.2 ft, from floodmarks, discharge, about 460,000 ft³/s from rating curve extended as explained in footnotes.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 35,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 21	1145	83,200	15.40	Apr 15	0815	81,700	15.21
Dec 12	1515	*118,000	*19.58	Apr 27	2200	51,900	11.15
Dec 26	0300	38,500	9.08	Sep 10	1230	56,900	11.87
Feb 8	0800	57,300	11.93	Sep 19	0445	84,700	15.59
Apr 3	1100	39,500	9.24	Sep 30	0845	98,100	17.25

Minimum discharge, 1,960 ft³/s, Sept. 4.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,400	10,800	17,600	15,600	e5,500	14,900	10,200	19,500	11,100	4,800	3,720	2,300
2	14,700	9,670	15,900	e14,400	e5,400	15,700	16,100	17,200	9,730	4,580	12,200	2,400
3	12,300	8,840	e14,800	e13,700	5,670	19,200	37,500	19,900	8,970	4,410	10,000	2,400
4	10,900	8,400	e14,000	e13,000	6,500	24,800	32,900	21,500	8,170	4,040	6,540	2,030
5	9,990	7,890	13,200	13,400	6,380	23,700	26,100	20,800	14,900	3,910	5,080	2,070
6	9,230	8,000	12,900	15,100	10,600	25,600	21,700	17,900	14,800	4,160	4,420	2,030
7	8,960	8,490	12,400	16,700	21,000	30,000	18,000	16,000	12,900	6,450	3,900	2,000
8	8,390	9,050	11,700	15,600	51,100	31,600	15,400	14,900	11,400	e6,270	3,470	2,080
9	7,610	10,500	11,000	14,000	43,000	e27,400	14,700	14,000	9,780	4,880	3,240	3,610
10	7,050	9,950	10,600	12,900	29,400	e22,900	14,100	12,800	8,450	4,250	3,150	48,400
11	6,520	8,980	35,300	11,300	25,100	19,900	13,300	11,500	7,840	3,890	2,970	30,000
12	6,240	8,890	105,000	10,400	24,000	17,700	12,100	10,500	8,650	3,720	3,200	17,900
13	5,990	14,000	69,600	10,500	23,100	15,800	e23,000	9,530	11,000	3,980	2,980	13,000
14	6,130	24,700	41,400	10,400	20,100	14,100	62,000	8,900	15,500	5,930	3,540	10,200
15	7,820	25,100	32,300	9,780	19,100	12,500	77,800	9,000	15,000	5,850	3,500	8,460
16	8,430	20,800	27,400	9,040	18,000	11,500	53,300	9,810	13,500	5,340	3,380	6,600
17	9,850	17,300	24,000	8,120	16,000	11,100	36,600	10,600	11,600	4,330	3,640	5,710
18	9,420	15,200	22,900	7,310	14,800	11,100	28,300	10,800	10,900	3,690	3,800	26,100
19	8,580	16,100	23,300	e7,500	13,700	12,100	23,500	12,300	10,400	4,120	3,120	78,300
20	8,010	27,900	21,800	e7,350	12,900	14,400	20,200	19,600	9,320	4,420	2,750	41,300
21	7,600	75,200	19,100	7,210	15,600	17,600	17,800	19,100	8,580	3,550	2,690	23,900
22	7,210	49,700	16,800	6,880	24,200	19,600	16,300	17,000	7,980	3,580	3,860	17,100
23	6,740	33,000	15,400	e6,200	30,100	22,000	15,600	18,000	7,330	3,460	4,010	14,500
24	6,460	25,700	17,200	5,940	24,800	19,700	14,800	15,600	6,910	3,510	3,460	10,900
25	6,240	22,600	31,000	5,630	21,800	17,000	13,700	13,500	6,330	3,450	3,100	9,150
26	5,950	20,600	36,900	4,690	19,500	15,000	14,100	12,100	6,010	3,480	2,810	8,360
27	6,310	18,200	30,200	4,730	17,500	13,500	37,100	11,300	5,790	3,480	2,660	7,190
28	8,050	16,300	24,900	e5,100	15,700	12,400	43,900	10,200	5,630	3,440	2,530	11,300
29	15,000	17,200	21,500	e5,300	14,900	11,400	30,800	9,640	5,510	3,690	2,460	46,300
30	14,500	18,100	19,100	e5,600	---	10,400	23,500	10,200	5,090	3,860	2,420	85,600
31	12,500	---	17,200	e5,700	---	9,880	---	12,200	---	3,840	2,280	---
TOTAL	280,080	567,160	786,400	299,080	555,450	544,480	784,400	435,880	289,070	132,360	120,880	541,190
MEAN	9,035	18,910	25,370	9,648	19,150	17,560	26,150	14,060	9,636	4,270	3,899	18,040
MAX	17,400	75,200	105,000	16,700	51,100	31,600	77,800	21,500	15,500	6,450	12,200	85,600
MIN	5,950	7,890	10,600	4,690	5,400	9,880	10,200	8,900	5,090	3,440	2,280	2,000
CFSM	0.94	1.96	2.63	1.00	1.98	1.82	2.71	1.46	1.00	0.44	0.40	1.87
IN.	1.08	2.19	3.03	1.15	2.14	2.10	3.02	1.68	1.11	0.51	0.47	2.09

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2004, BY WATER YEAR (WY)

	5,025	5,771	8,684	11,400	14,350	19,750	16,570	12,380	8,150	4,503	4,275	4,070
MEAN												
MAX	37,030	39,000	32,610	42,160	47,870	68,360	43,840	41,970	40,400	16,000	23,580	38,300
(WY)	(1943)	(1986)	(1973)	(1996)	(1998)	(1936)	(1993)	(1924)	(1972)	(1949)	(1955)	(1996)
MIN	706	840	1,253	1,703	1,982	5,400	4,368	3,276	1,932	1,056	771	834
(WY)	(1931)	(1931)	(1966)	(1981)	(2002)	(1931)	(1915)	(1930)	(1969)	(1966)	(1930)	(1930)

01638500 POTOMAC RIVER AT POINT OF ROCKS, MD—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1895 - 2004	
ANNUAL TOTAL	7,245,440		5,336,430		9,562	
ANNUAL MEAN	19,850		14,580		18,750	
HIGHEST ANNUAL MEAN					4,015	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	112,000	Sep 21	105,000	Dec 12	434,000	Mar 19, 1936
LOWEST DAILY MEAN	2,040	Feb 18	2,000	Sep 7	540	Sep 10, 1914
ANNUAL SEVEN-DAY MINIMUM	3,190	Feb 13	2,140	Sep 2	593	Sep 6, 1966
MAXIMUM PEAK FLOW			118,000	Dec 12	(a)480,000	Mar 19, 1936
MAXIMUM PEAK STAGE			19.58	Dec 12	41.03	Mar 19, 1936
INSTANTANEOUS LOW FLOW			1,960	Sep 4	530	(b)
ANNUAL RUNOFF (CFSM)	2.06		1.51		0.991	
ANNUAL RUNOFF (INCHES)	27.93		20.57		13.46	
10 PERCENT EXCEEDS	42,300		26,500		21,000	
50 PERCENT EXCEEDS	14,800		11,400		5,410	
90 PERCENT EXCEEDS	4,910		3,600		1,680	

a From rating curve extended above 300,000 ft³/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. 11, 12, 1966.

