

POTOMAC RIVER BASIN

01636690 PINEY RUN NEAR LOVETTSTVILLE, VA

LOCATION.--Lat 39°18'39", long 77°43'07", NAD83, Loudoun County, Hydrologic Unit 02070008, on right bank 100 ft downstream from State Highway 671, 0.2 mi south of Loudoun Heights, and 1.3 mi upstream from mouth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 2001 to September 2002.

GAGE.--Water stage recorder. Elevation of gage is 400 ft NVGD of 1929, from topographic map.

REMARKS.--Records good except those for period with ice effect, Jan. 3-5, and period of no gage-height record, Feb. 27 to Mar. 4, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.91	1.1	1.3	0.95	4.1	e1.2	8.7	5.8	2.5	0.73	0.24	0.53
2	0.74	1.0	1.1	0.98	2.9	e1.4	6.0	21	2.2	0.64	0.20	0.59
3	0.65	1.0	1.0	e1.0	2.2	e8.0	5.2	11	1.8	0.54	0.14	0.43
4	0.60	1.4	0.98	e1.1	2.2	e4.6	4.4	6.9	1.8	0.47	0.12	0.33
5	0.54	0.94	0.98	e1.1	1.9	3.3	4.3	6.4	1.9	0.41	0.13	0.25
6	0.54	0.90	0.93	1.4	1.7	2.9	3.9	5.5	2.0	0.33	0.24	0.22
7	0.54	0.90	0.92	2.1	2.0	2.7	3.6	5.1	2.3	0.28	0.15	0.21
8	0.54	0.90	1.3	2.2	2.1	2.4	3.4	4.8	1.8	0.31	0.11	0.17
9	0.56	0.91	2.6	2.0	1.9	2.3	3.5	5.1	1.6	0.37	0.09	0.16
10	0.64	0.90	1.8	2.2	1.7	2.3	3.9	6.4	1.3	0.89	0.09	0.15
11	0.71	0.86	2.2	3.6	2.5	1.9	3.6	4.1	1.2	0.64	0.09	0.16
12	0.73	0.82	2.1	3.1	2.1	1.8	3.2	3.7	1.1	0.44	0.09	0.12
13	0.69	0.81	1.8	1.9	1.9	3.3	3.4	8.3	2.8	0.40	0.09	0.09
14	0.93	0.82	1.9	1.5	1.6	4.2	3.7	7.2	15	2.8	0.09	0.09
15	2.5	0.85	1.8	1.4	1.5	3.1	9.0	4.4	9.4	1.9	0.06	0.13
16	0.95	0.86	1.5	1.2	1.7	2.7	5.9	3.6	3.9	1.0	0.07	0.28
17	0.95	1.5	1.4	1.1	1.7	2.5	4.1	3.4	2.7	0.69	0.07	0.28
18	1.1	0.96	1.8	1.1	1.5	3.9	3.6	14	2.1	0.53	0.05	0.31
19	0.88	0.75	1.6	1.2	1.4	3.9	3.2	8.0	1.8	0.63	0.04	0.29
20	0.81	0.87	1.4	1.5	1.5	28	3.2	5.1	1.6	0.90	0.04	0.32
21	0.82	0.82	1.2	1.4	1.5	14	3.1	4.3	1.4	0.59	0.04	0.35
22	0.91	0.81	1.1	1.6	1.4	7.5	5.5	3.8	1.2	0.44	0.03	0.85
23	0.90	0.77	1.1	1.9	1.5	5.8	4.4	3.5	1.1	0.78	0.03	2.3
24	0.88	0.87	1.7	5.6	1.5	4.9	3.3	3.2	1.1	1.4	0.74	0.59
25	0.84	4.9	1.5	5.2	1.3	4.5	3.2	3.2	0.96	0.94	0.25	0.43
26	0.89	6.6	1.4	3.2	1.3	6.8	3.1	3.1	0.98	5.4	0.14	2.4
27	1.0	2.3	1.5	2.5	e1.4	20	2.8	6.5	1.2	3.7	0.11	6.4
28	0.96	1.5	1.5	2.2	e1.3	8.3	20	7.3	1.2	1.4	0.56	3.6
29	1.1	1.3	1.4	2.1	---	6.3	17	4.5	1.0	0.80	1.2	1.8
30	1.1	1.3	1.1	2.0	---	5.3	7.8	3.5	0.84	0.48	0.48	1.2
31	1.1	---	1.0	4.2	---	6.3	---	3.0	---	0.32	0.37	---
TOTAL	27.01	40.22	44.91	64.53	51.3	176.1	160.0	185.7	71.78	31.15	6.15	25.03
MEAN	0.87	1.34	1.45	2.08	1.83	5.68	5.33	5.99	2.39	1.00	0.20	0.83
MAX	2.5	6.6	2.6	5.6	4.1	28	20	21	15	5.4	1.2	6.4
MIN	0.54	0.75	0.92	0.95	1.3	1.2	2.8	3.0	0.84	0.28	0.03	0.09
CFSM	0.06	0.10	0.11	0.15	0.13	0.41	0.39	0.44	0.17	0.07	0.01	0.06
IN.	0.07	0.11	0.12	0.18	0.14	0.48	0.43	0.50	0.19	0.08	0.02	0.07

01636690 PINEY RUN NEAR LOVETTSVILLE, VA--Continued

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.87	1.34	1.45	2.08	1.83	5.68	5.33	5.99	2.39	1.00	0.20	0.83
MAX	0.87	1.34	1.45	2.08	1.83	5.68	5.33	5.99	2.39	1.00	0.20	0.83
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	0.87	1.34	1.45	2.08	1.83	5.68	5.33	5.99	2.39	1.00	0.20	0.83
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

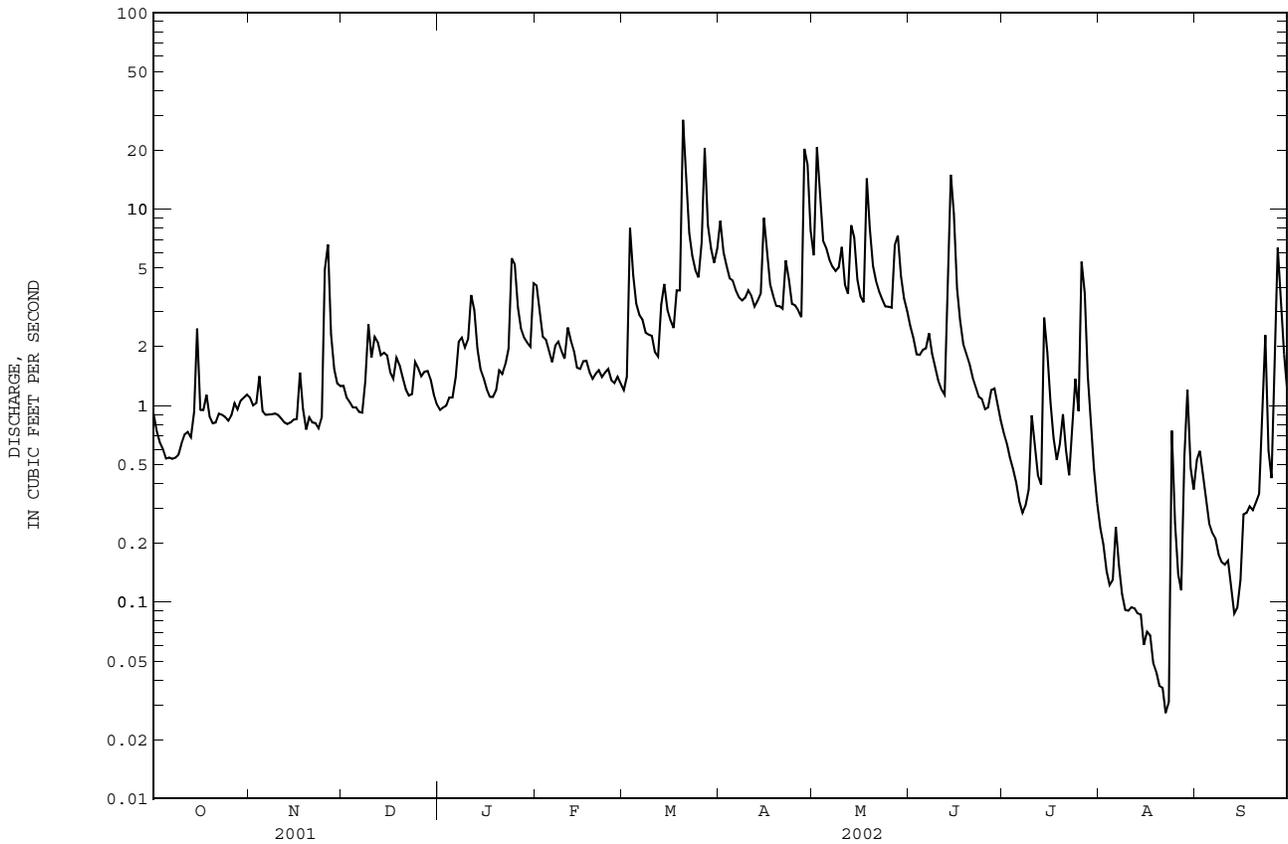
SUMMARY STATISTICS

FOR 2002 WATER YEAR

ANNUAL TOTAL	883.88
ANNUAL MEAN	2.42
HIGHEST DAILY MEAN	28 Mar 20
LOWEST DAILY MEAN	0.03 aAug 22
ANNUAL SEVEN-DAY MINIMUM	0.04 Aug 17
MAXIMUM PEAK FLOW	65 Mar 20
MAXIMUM PEAK STAGE	2.26 Mar 20
INSTANTANEOUS LOW FLOW	0.02 aAug 22
ANNUAL RUNOFF (CFSM)	0.18
ANNUAL RUNOFF (INCHES)	2.40
10 PERCENT EXCEEDS	5.4
50 PERCENT EXCEEDS	1.4
90 PERCENT EXCEEDS	0.25

a Also Aug. 23, 2002.

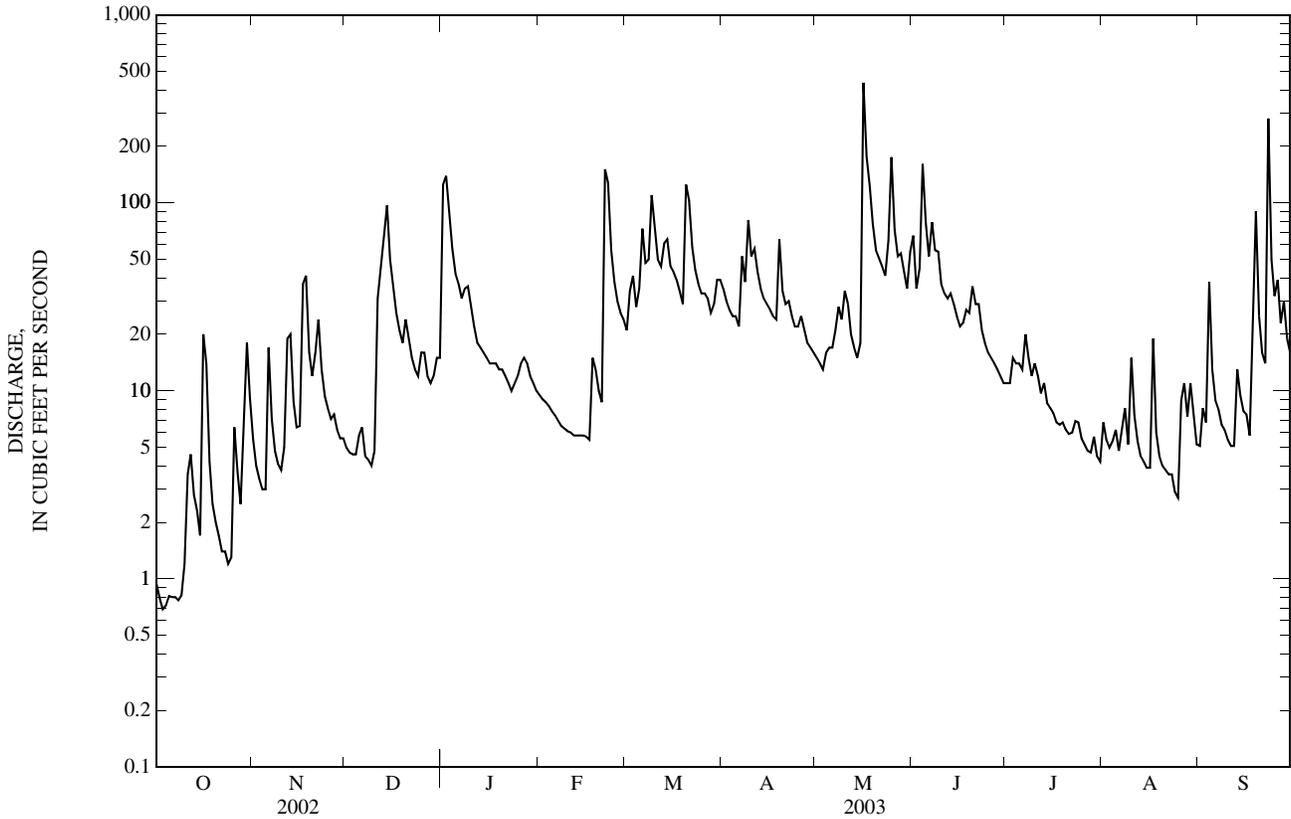
e Estimated.



01636690 PINEY RUN NEAR LOVETTSVILLE, VA—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2002 - 2003	
ANNUAL TOTAL	1,837.68		9,360.84		14.0	
ANNUAL MEAN	5.03		25.6		25.6	
HIGHEST ANNUAL MEAN					2.42	2003
LOWEST ANNUAL MEAN					436	2002
HIGHEST DAILY MEAN	97	Dec 14	436	May 16	436	May 16, 2003
LOWEST DAILY MEAN	0.03	aAug 22	0.69	Oct 3	0.03	aAug 22, 2002
ANNUAL SEVEN-DAY MINIMUM	0.04	Aug 17	0.77	Oct 2	0.04	Aug 17, 2002
MAXIMUM PEAK FLOW			631	May 16	631	May 16, 2003
MAXIMUM PEAK STAGE			6.98	May 16	6.98	May 16, 2003
INSTANTANEOUS LOW FLOW			0.68	bOct 2	0.02	Aug 22, 2002
ANNUAL RUNOFF (CFSM)	0.37		1.87		1.02	
ANNUAL RUNOFF (INCHES)	4.99		25.42		13.92	
10 PERCENT EXCEEDS	13		55		36	
50 PERCENT EXCEEDS	2.3		15		4.6	
90 PERCENT EXCEEDS	0.25		4.0		0.63	

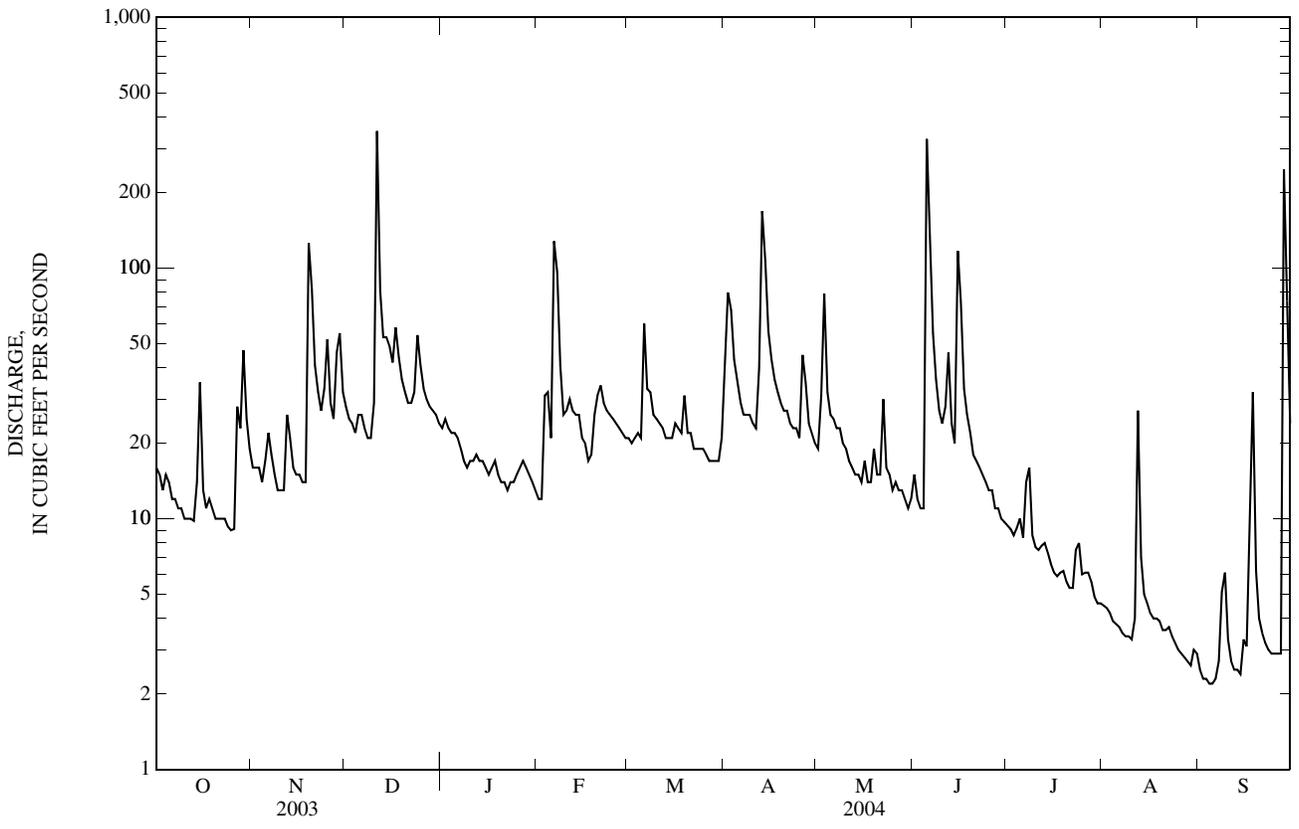
a Also Aug. 23, 2002.
 b Also Oct. 3-5, 2002.
 c Estimated.



01636690 PINEY RUN NEAR LOVETTSVILLE, VA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	11,031.1		8,724.3		17.3	
ANNUAL MEAN	30.2		23.8		25.6	
HIGHEST ANNUAL MEAN					2.42	2002
LOWEST ANNUAL MEAN					0.03	2002
HIGHEST DAILY MEAN	436	May 16	352	Dec 11	436	May 16, 2003
LOWEST DAILY MEAN	2.7	Aug 25	2.2	aSep 4	0.03	bAug 22, 2002
ANNUAL SEVEN-DAY MINIMUM	3.6	Aug 19	2.4	Sep 1	0.04	Aug 17, 2002
MAXIMUM PEAK FLOW			685	Jun 5	685	Jun 5, 2004
MAXIMUM PEAK STAGE			7.66	Jun 5	7.66	Jun 5, 2004
INSTANTANEOUS LOW FLOW			2.2	cSep 3	0.02	Aug 22, 2002
ANNUAL RUNOFF (CFSM)	2.21		1.74		1.26	
ANNUAL RUNOFF (INCHES)	29.95		23.69		17.16	
10 PERCENT EXCEEDS	56		41		37	
50 PERCENT EXCEEDS	19		17		8.1	
90 PERCENT EXCEEDS	5.9		3.7		0.87	

a Also Sept. 5, 2004.
 b Also Aug. 23, 2002.
 c Also Sept. 4-6, 2004.
 e Estimated.



POTOMAC RIVER BASIN

01638350 SOUTH FORK CATOCTIN CREEK AT ROUTE 698 NEAR WATERFORD, VA

LOCATION.--Lat 39°11'28", long 77°36'56", NAD83, Loudoun County, Hydrologic Unit 02070008, on right bank 50 ft downstream from State Highway 698 and 0.25 mi northwest of Waterford.

DRAINAGE AREA.--Not determined.

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

GAGE.--Water stage recorder. Elevation of gage is 335 ft NVGD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	60	7.6	4.1
2	---	---	---	---	---	---	---	---	---	30	6.0	3.5
3	---	---	---	---	---	---	---	---	---	18	5.3	3.2
4	---	---	---	---	---	---	---	---	---	194	5.5	3.4
5	---	---	---	---	---	---	---	---	---	164	5.2	3.3
6	---	---	---	---	---	---	---	---	---	58	4.7	2.7
7	---	---	---	---	---	---	---	---	---	37	4.2	2.6
8	---	---	---	---	---	---	---	---	---	47	3.7	2.5
9	---	---	---	---	---	---	---	---	---	44	3.5	2.9
10	---	---	---	---	---	---	---	---	---	28	3.1	3.3
11	---	---	---	---	---	---	---	---	---	22	85	6.1
12	---	---	---	---	---	---	---	---	---	19	93	3.0
13	---	---	---	---	---	---	---	---	---	16	49	2.5
14	---	---	---	---	---	---	---	---	---	14	22	2.3
15	---	---	---	---	---	---	---	---	---	12	14	2.3
16	---	---	---	---	---	---	---	---	---	12	11	2.2
17	---	---	---	---	---	---	---	---	---	10	9.3	2.1
18	---	---	---	---	---	---	---	---	---	26	8.3	2.2
19	---	---	---	---	---	---	---	---	---	22	7.9	2.0
20	---	---	---	---	---	---	---	---	---	13	15	2.3
21	---	---	---	---	---	---	---	---	---	10	8.9	2.0
22	---	---	---	---	---	---	---	---	---	9.2	6.6	4.3
23	---	---	---	---	---	---	---	---	---	8.2	6.3	3.0
24	---	---	---	---	---	---	---	---	---	7.5	7.6	195
25	---	---	---	---	---	---	---	---	---	6.6	6.3	161
26	---	---	---	---	---	---	---	---	---	6.3	5.4	26
27	---	---	---	---	---	---	---	---	---	6.4	4.9	16
28	---	---	---	---	---	---	---	---	---	5.5	4.6	12
29	---	---	---	---	---	---	---	---	---	10	4.2	10
30	---	---	---	---	---	---	---	---	---	18	4.1	8.8
31	---	---	---	---	---	---	---	---	---	10	4.1	---
TOTAL	---	---	---	---	---	---	---	---	---	943.7	426.3	514.6
MEAN	---	---	---	---	---	---	---	---	---	30.4	13.8	17.2
MAX	---	---	---	---	---	---	---	---	---	194	93	195
MIN	---	---	---	---	---	---	---	---	---	5.5	3.1	2.0

01638350 SOUTH FORK CATOCTIN CREEK AT ROUTE 698 NEAR WATERFORD, VA--Continued

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

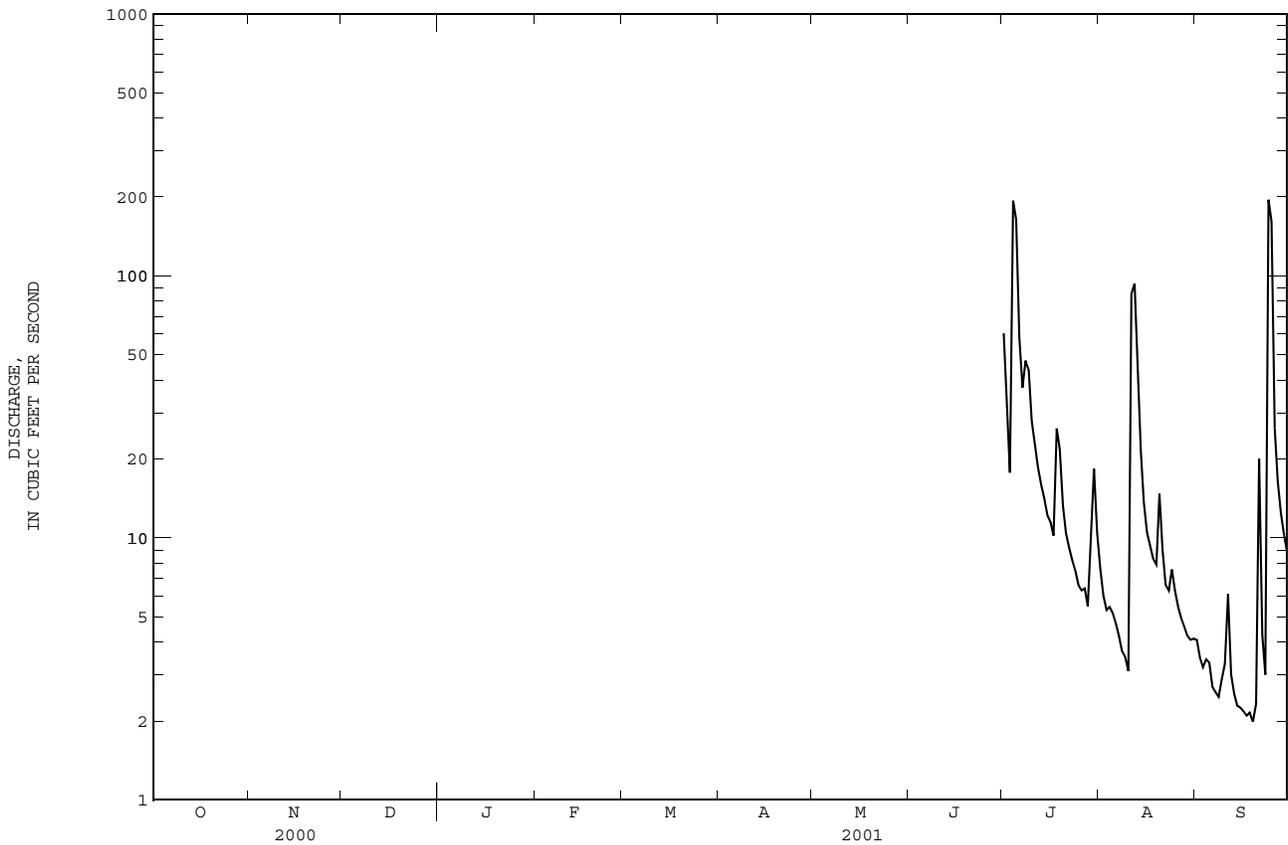
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	---	---	---	---	---	---	30.4	13.8	17.2
MAX	---	---	---	---	---	---	---	---	---	30.4	13.8	17.2
(WY)	---	---	---	---	---	---	---	---	---	2001	2001	2001
MIN	---	---	---	---	---	---	---	---	---	30.4	13.8	17.2
(WY)	---	---	---	---	---	---	---	---	---	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

ANNUAL TOTAL	1884.6
ANNUAL MEAN	20.5
HIGHEST DAILY MEAN	195 Sep 24
LOWEST DAILY MEAN	2.0 Sep 19
ANNUAL SEVEN-DAY MINIMUM	2.2 Sep 14
MAXIMUM PEAK FLOW	857 Sep 25
MAXIMUM PEAK STAGE	8.46 Sep 25
INSTANTANEOUS LOW FLOW	1.9 aSep 19
10 PERCENT EXCEEDS	48
50 PERCENT EXCEEDS	7.6
90 PERCENT EXCEEDS	2.5

a Also Sept. 20, 2001.



POTOMAC RIVER BASIN

01638350 SOUTH FORK CATOCTIN CREEK AT ROUTE 698 NEAR WATERFORD, VA--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	3.6	5.3	3.8	11	4.0	28	20	16	3.4	1.9	7.0
2	7.0	3.9	4.7	3.7	9.0	4.4	20	36	13	3.2	1.6	4.0
3	6.1	3.8	4.4	4.0	7.6	32	17	26	11	2.9	1.5	2.3
4	5.4	6.1	4.3	4.0	7.5	15	15	17	9.5	2.6	1.4	1.6
5	5.1	3.7	4.2	3.9	6.2	9.6	13	17	9.8	2.4	1.5	1.1
6	4.8	3.1	4.0	4.5	6.1	8.4	13	15	15	2.3	8.3	0.86
7	4.0	3.0	4.0	6.5	6.9	7.8	12	14	20	2.0	2.7	0.65
8	3.9	3.1	5.2	6.8	7.3	7.1	11	14	10	1.9	1.7	0.58
9	3.7	3.0	10	5.8	6.4	6.9	12	13	8.5	2.3	1.4	0.52
10	3.9	3.1	7.0	5.9	6.1	7.7	12	14	7.3	3.2	1.2	0.44
11	4.0	2.9	9.0	8.9	7.5	6.3	11	11	6.1	2.5	1.0	0.31
12	4.0	2.9	8.6	8.5	7.0	6.0	9.9	9.1	5.5	1.9	0.96	0.18
13	4.0	2.9	7.9	6.9	6.7	10	10	9.8	9.1	1.7	0.83	0.11
14	4.9	2.9	8.0	5.9	5.7	14	11	8.6	63	70	0.80	0.07
15	22	3.0	8.0	5.6	5.6	11	13	7.3	171	22	0.60	0.14
16	7.3	3.1	6.4	5.2	5.7	9.4	11	6.5	40	6.7	0.70	0.25
17	6.7	3.3	6.2	5.1	5.6	8.8	9.4	6.3	22	3.8	0.75	0.33
18	5.1	2.9	9.0	4.6	5.1	13	8.4	23	15	2.8	0.71	0.22
19	4.7	3.1	7.1	4.8	4.9	13	8.1	15	14	2.9	0.60	0.17
20	4.6	3.7	5.7	5.6	5.1	127	16	8.5	13	2.6	0.44	0.08
21	4.4	3.1	5.1	5.4	5.3	66	9.9	7.3	9.8	2.3	0.36	0.31
22	4.2	2.7	4.9	6.0	5.1	37	28	6.5	8.1	2.0	0.26	25
23	4.3	3.2	4.8	6.7	4.7	29	15	5.9	7.0	1.8	0.22	60
24	4.1	3.1	6.0	9.3	4.5	24	11	5.6	6.3	2.9	0.41	2.9
25	4.2	19	5.3	12	4.9	21	10	5.2	5.5	2.6	0.33	0.80
26	3.7	29	5.0	9.1	4.7	24	11	48	5.0	20	0.35	11
27	3.9	8.9	4.8	7.7	4.6	67	8.4	176	4.9	17	0.33	73
28	3.4	6.6	4.6	7.2	4.1	32	79	60	5.4	11	1.5	32
29	3.3	5.7	4.6	6.8	---	25	53	34	5.5	5.2	22	6.3
30	3.5	5.5	4.1	6.7	---	22	26	31	4.3	3.2	4.9	2.8
31	3.6	---	4.0	9.8	---	22	---	21	---	2.3	2.2	---
TOTAL	161.9	153.9	182.2	196.7	170.9	690.4	512.1	691.6	540.6	213.4	63.45	235.02
MEAN	5.22	5.13	5.88	6.35	6.10	22.3	17.1	22.3	18.0	6.88	2.05	7.83
MAX	22	29	10	12	11	127	79	176	171	70	22	73
MIN	3.3	2.7	4.0	3.7	4.1	4.0	8.1	5.2	4.3	1.7	0.22	0.07

01638350 SOUTH FORK CATOCTIN CREEK AT ROUTE 698 NEAR WATERFORD, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

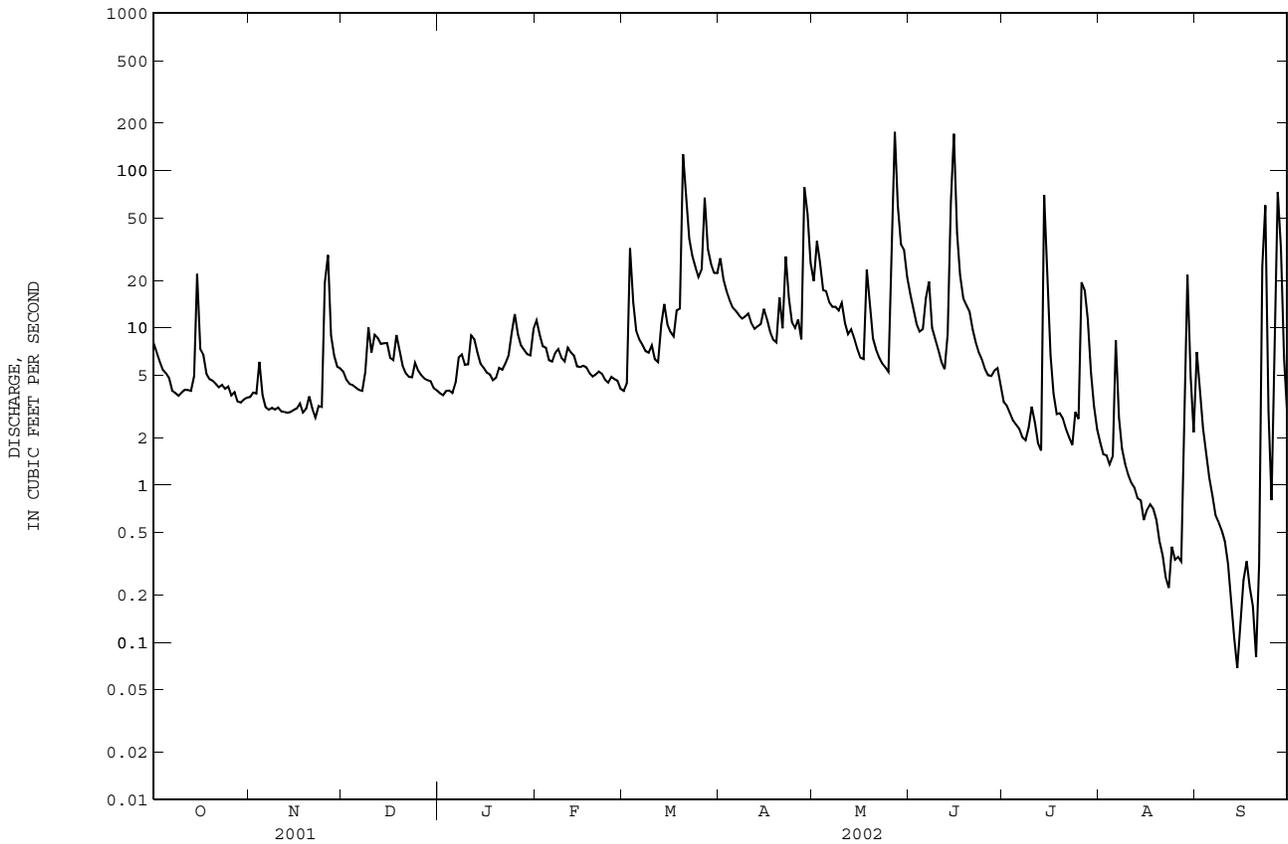
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.22	5.13	5.88	6.35	6.10	22.3	17.1	22.3	18.0	18.7	7.90	12.5
MAX	5.22	5.13	5.88	6.35	6.10	22.3	17.1	22.3	18.0	30.4	13.8	17.2
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001	2001	2001
MIN	5.22	5.13	5.88	6.35	6.10	22.3	17.1	22.3	18.0	6.88	2.05	7.83
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

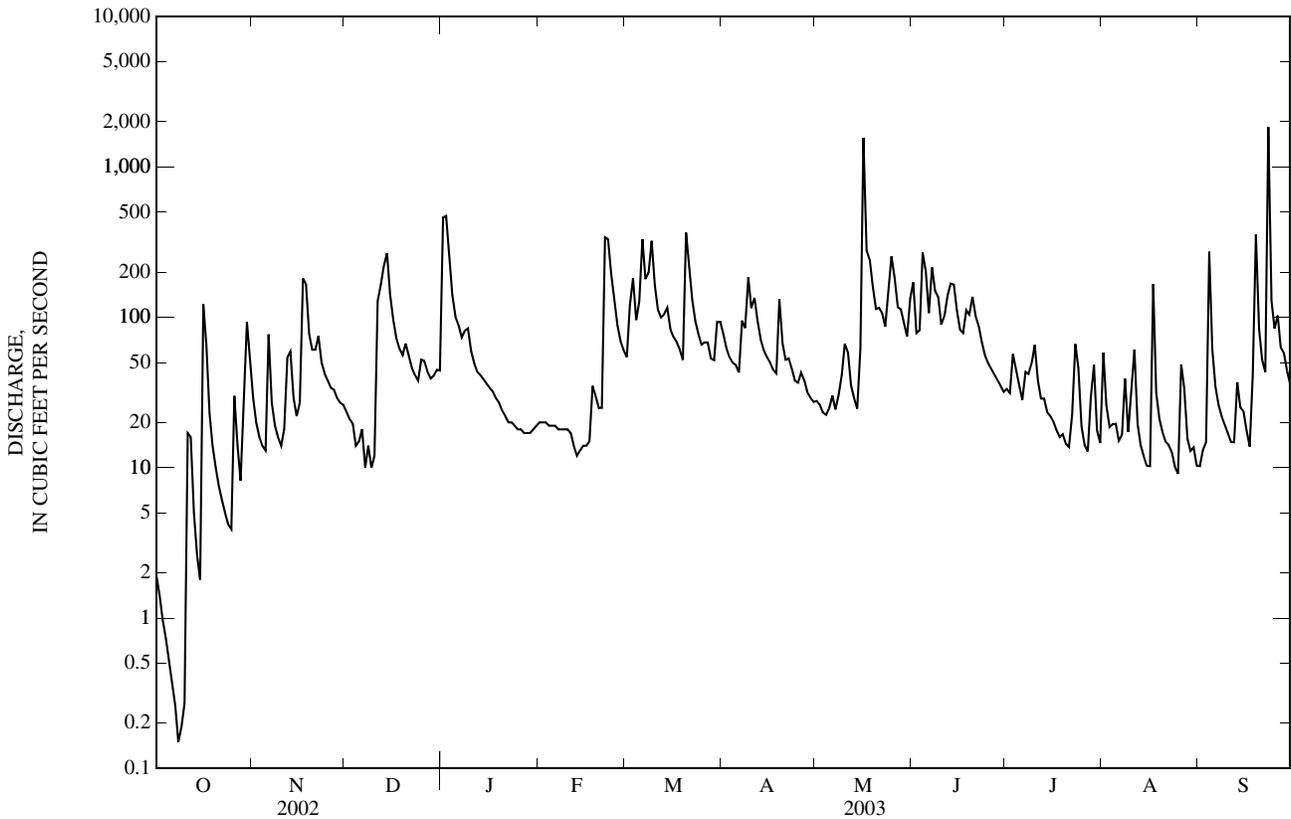
ANNUAL TOTAL	3812.17		
ANNUAL MEAN	10.4	10.4	
HIGHEST ANNUAL MEAN		10.4	2002
LOWEST ANNUAL MEAN		10.4	2002
HIGHEST DAILY MEAN	176	May 27	195 Sep 24 2001
LOWEST DAILY MEAN	0.07	Sep 14	0.07 Sep 14 2002
ANNUAL SEVEN-DAY MINIMUM	0.18	Sep 14	0.18 Sep 14 2002
MAXIMUM PEAK FLOW	418	Jun 15	857 Sep 25 2001
MAXIMUM PEAK STAGE	5.35	Jun 15	8.46 Sep 25 2001
INSTANTANEOUS LOW FLOW	0.01	Sep 20	0.01 Sep 20 2002
10 PERCENT EXCEEDS	22		22
50 PERCENT EXCEEDS	5.7		5.7
90 PERCENT EXCEEDS	1.3		1.3



01638350 SOUTH FORK CATOCTIN CREEK AT ROUTE 698 NEAR WATERFORD, VA—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	7,137.35		26,596.28			
ANNUAL MEAN	19.6		72.9		41.7	
HIGHEST ANNUAL MEAN					72.9	2003
LOWEST ANNUAL MEAN					10.4	2002
HIGHEST DAILY MEAN	267	Dec 14	1,840	Sep 23	1,840	Sep 23, 2003
LOWEST DAILY MEAN	0.07	Sep 14	0.15	Oct 8	0.07	Sep 14, 2002
ANNUAL SEVEN-DAY MINIMUM	0.18	Sep 14	0.36	Oct 4	0.18	Sep 14, 2002
MAXIMUM PEAK FLOW			5,700	Sep 23	5,700	Sep 23, 2003
MAXIMUM PEAK STAGE			12.10	Sep 23	12.10	Sep 23, 2003
INSTANTANEOUS LOW FLOW			0.04	Oct 10	0.01	Sep 20, 2002
ANNUAL RUNOFF (CFSM)	0.62		2.31		1.32	
ANNUAL RUNOFF (INCHES)	8.40		31.31		17.91	
10 PERCENT EXCEEDS	52		154		101	
50 PERCENT EXCEEDS	8.4		40		15	
90 PERCENT EXCEEDS	0.80		13		2.6	

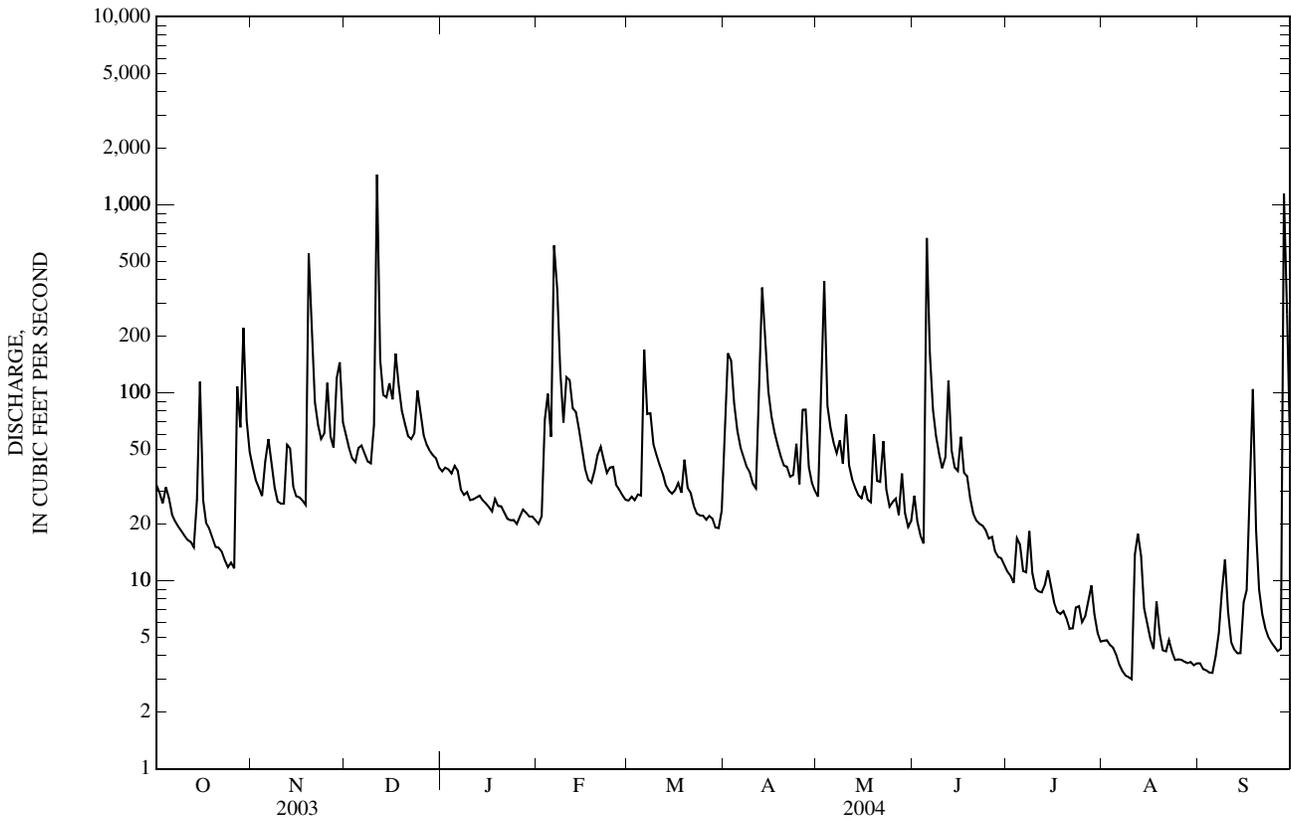
e Estimated.



01638350 SOUTH FORK CATOCTIN CREEK AT ROUTE 698 NEAR WATERFORD, VA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	29,711.1		19,257.2		45.3	
ANNUAL MEAN	81.4		52.6		72.9	
HIGHEST ANNUAL MEAN					10.4	2003
LOWEST ANNUAL MEAN					10.4	2002
HIGHEST DAILY MEAN	1,840	Sep 23	1,450	Dec 11	1,840	Sep 23, 2003
LOWEST DAILY MEAN	9.1	Aug 25	3.0	Aug 10	0.07	Sep 14, 2002
ANNUAL SEVEN-DAY MINIMUM	13	Aug 28	3.4	Aug 30	0.18	Sep 14, 2002
MAXIMUM PEAK FLOW			4,210	Sep 28	5,700	Sep 23, 2003
MAXIMUM PEAK STAGE			11.24	Sep 28	12.10	Sep 23, 2003
INSTANTANEOUS LOW FLOW			2.7	Aug 11	0.01	Sep 20, 2002
ANNUAL RUNOFF (CFSM)	2.58		1.67		1.43	
ANNUAL RUNOFF (INCHES)	34.98		22.67		19.48	
10 PERCENT EXCEEDS	154		93		96	
50 PERCENT EXCEEDS	45		28		20	
90 PERCENT EXCEEDS	15		4.8		3.3	

e Estimated.



POTOMAC RIVER BASIN

01638420 NORTH FORK CATOCTIN CREEK AT ROUTE 681 NEAR WATERFORD, VA

LOCATION.--Lat 39°12'18", long 77°37'26", NAD83, Loudoun County, Hydrologic Unit 02070008, on left bank 2 ft downstream from State Highway 681 and 2.2 mi northeast of Waterford.

DRAINAGE AREA.--Not determined.

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

GAGE.--Water stage recorder. Elevation of gage is 330 ft NVGD of 1929, from topographic map.

REMARKS.--Records good except those for periods of doubtful or no gage-height record, Sept. 14-20, 2001 and Feb. 26 to Mar. 2, 2002, which are fair.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	4.5	1.8
2	---	---	---	---	---	---	---	---	---	---	3.5	1.8
3	---	---	---	---	---	---	---	---	---	---	3.1	1.3
4	---	---	---	---	---	---	---	---	---	---	3.0	1.1
5	---	---	---	---	---	---	---	---	---	---	3.1	1.2
6	---	---	---	---	---	---	---	---	---	---	2.9	1.1
7	---	---	---	---	---	---	---	---	---	---	2.9	0.90
8	---	---	---	---	---	---	---	---	---	---	2.3	0.76
9	---	---	---	---	---	---	---	---	---	---	2.1	0.67
10	---	---	---	---	---	---	---	---	---	---	1.8	0.72
11	---	---	---	---	---	---	---	---	---	---	4.1	0.91
12	---	---	---	---	---	---	---	---	---	---	19	0.75
13	---	---	---	---	---	---	---	---	---	---	17	0.70
14	---	---	---	---	---	---	---	---	---	---	12	e0.69
15	---	---	---	---	---	---	---	---	---	---	6.3	e0.66
16	---	---	---	---	---	---	---	---	---	---	3.8	e0.60
17	---	---	---	---	---	---	---	---	---	---	3.4	e0.58
18	---	---	---	---	---	---	---	---	---	---	2.9	e0.56
19	---	---	---	---	---	---	---	---	---	---	2.8	e0.54
20	---	---	---	---	---	---	---	---	---	6.3	3.8	e0.68
21	---	---	---	---	---	---	---	---	---	5.4	3.4	1.0
22	---	---	---	---	---	---	---	---	---	5.6	2.4	1.6
23	---	---	---	---	---	---	---	---	---	4.6	2.0	1.3
24	---	---	---	---	---	---	---	---	---	4.2	3.2	35
25	---	---	---	---	---	---	---	---	---	3.5	3.2	19
26	---	---	---	---	---	---	---	---	---	3.3	2.2	5.1
27	---	---	---	---	---	---	---	---	---	3.6	1.9	2.3
28	---	---	---	---	---	---	---	---	---	3.2	1.7	1.7
29	---	---	---	---	---	---	---	---	---	4.4	1.6	1.7
30	---	---	---	---	---	---	---	---	---	8.6	1.4	1.4
31	---	---	---	---	---	---	---	---	---	5.8	1.5	---
TOTAL	---	---	---	---	---	---	---	---	---	58.5	128.8	88.12
MEAN	---	---	---	---	---	---	---	---	---	4.88	4.15	2.94
MAX	---	---	---	---	---	---	---	---	---	8.6	19	35
MIN	---	---	---	---	---	---	---	---	---	3.2	1.4	0.54

01638420 NORTH FORK CATOCTIN CREEK AT ROUTE 681 NEAR WATERFORD, VA--Continued

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

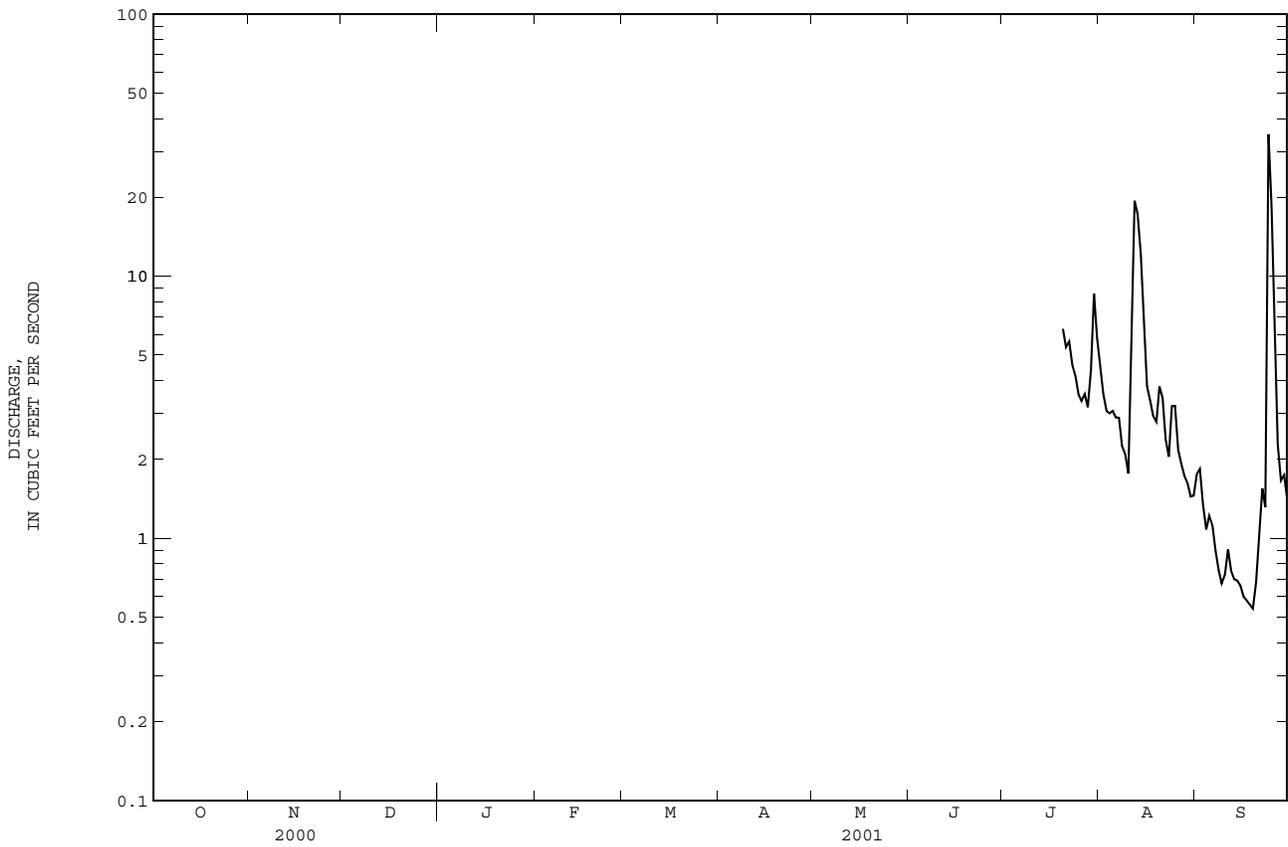
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	---	---	---	---	---	---	4.88	4.15	2.94
MAX	---	---	---	---	---	---	---	---	---	4.88	4.15	2.94
(WY)	---	---	---	---	---	---	---	---	---	2001	2001	2001
MIN	---	---	---	---	---	---	---	---	---	4.88	4.15	2.94
(WY)	---	---	---	---	---	---	---	---	---	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

ANNUAL TOTAL	275.42
ANNUAL MEAN	3.77
HIGHEST DAILY MEAN	35 Sep 24
LOWEST DAILY MEAN	0.54 Sep 19
ANNUAL SEVEN-DAY MINIMUM	0.62 Sep 14
MAXIMUM PEAK FLOW	190 Sep 24
MAXIMUM PEAK STAGE	5.40 Sep 24
10 PERCENT EXCEEDS	6.3
50 PERCENT EXCEEDS	2.3
90 PERCENT EXCEEDS	0.68

e Estimated.



POTOMAC RIVER BASIN

01638420 NORTH FORK CATOCTIN CREEK AT ROUTE 681 NEAR WATERFORD, VA--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	0.99	1.8	1.5	4.9	e2.0	13	8.9	5.6	1.3	0.36	0.33
2	1.4	1.0	1.9	1.5	3.9	e2.2	9.4	15	4.9	1.3	0.22	0.41
3	1.3	2.2	1.4	1.6	2.8	14	7.9	18	4.1	1.3	0.17	0.28
4	1.2	1.4	1.4	1.6	2.6	9.3	6.8	10	3.6	0.94	0.10	0.16
5	1.1	0.86	1.3	1.6	2.2	5.7	6.2	9.1	3.7	1.2	0.07	0.10
6	1.1	0.86	1.4	1.7	2.4	5.0	5.9	8.2	3.7	1.3	0.12	0.02
7	0.95	0.93	1.3	2.5	2.5	4.6	5.5	7.6	4.4	0.90	0.11	0.00
8	0.77	1.0	1.7	2.6	2.8	4.3	5.1	7.6	4.2	0.52	0.02	0.00
9	0.57	1.2	3.3	2.8	2.8	4.0	5.3	7.3	3.5	0.52	0.00	0.00
10	0.61	0.99	2.8	2.7	2.4	4.2	5.9	9.1	2.9	0.70	0.00	0.00
11	0.99	1.2	2.7	3.6	2.8	3.8	5.1	7.0	2.7	0.54	0.00	0.00
12	0.99	1.0	3.6	4.1	3.0	3.5	4.5	6.0	2.4	0.66	0.00	0.00
13	1.3	1.2	2.9	3.1	2.6	5.2	4.6	5.9	3.0	0.77	0.00	0.00
14	2.1	0.98	2.8	2.6	2.4	9.0	5.1	6.1	8.3	6.3	0.00	0.00
15	4.6	0.93	3.0	2.3	2.3	6.9	9.8	4.9	28	8.5	0.00	0.00
16	1.8	1.1	2.7	2.1	2.3	5.9	7.7	4.2	18	2.5	0.00	0.00
17	0.85	1.1	2.3	2.1	2.4	7.4	5.6	4.3	8.4	1.4	0.00	0.00
18	1.3	1.2	2.7	1.9	2.3	7.0	4.8	8.5	4.5	1.0	0.00	0.00
19	1.4	1.2	2.9	1.9	2.2	8.3	4.3	9.8	3.8	0.89	0.00	0.00
20	1.1	1.2	2.4	2.1	2.3	39	4.4	5.8	3.8	0.80	0.00	0.00
21	0.91	1.2	2.1	2.2	2.5	35	4.5	4.8	3.2	0.75	0.00	0.07
22	0.95	1.3	2.0	2.5	2.5	15	8.5	4.3	2.6	0.67	0.00	1.4
23	1.1	1.4	2.0	2.6	2.4	11	7.3	4.1	2.2	0.63	0.00	6.1
24	1.3	1.2	2.4	3.6	2.2	9.5	4.9	3.9	1.9	0.78	0.00	1.2
25	0.88	4.3	2.3	6.1	2.3	8.1	4.6	3.5	1.8	1.2	0.00	0.50
26	1.1	16	2.3	3.6	e2.3	8.6	4.7	4.1	1.7	2.1	0.00	0.97
27	1.3	4.2	2.0	2.8	e2.2	29	3.9	29	1.7	5.6	0.00	13
28	1.5	2.7	1.9	2.5	e2.1	14	18	23	1.8	2.5	0.00	5.8
29	1.5	2.0	1.9	2.3	---	11	27	13	1.8	1.5	0.00	3.6
30	1.1	1.9	1.8	2.3	---	9.7	12	8.5	1.5	0.94	0.00	1.7
31	0.96	---	1.7	3.1	---	9.8	---	6.6	---	0.52	0.00	---
TOTAL	39.43	58.74	68.7	79.5	72.4	312.0	222.3	268.1	143.7	50.53	1.17	35.64
MEAN	1.27	1.96	2.22	2.56	2.59	10.1	7.41	8.65	4.79	1.63	0.038	1.19
MAX	4.6	16	3.6	6.1	4.9	39	27	29	28	8.5	0.36	13
MIN	0.57	0.86	1.3	1.5	2.1	2.0	3.9	3.5	1.5	0.52	0.00	0.00

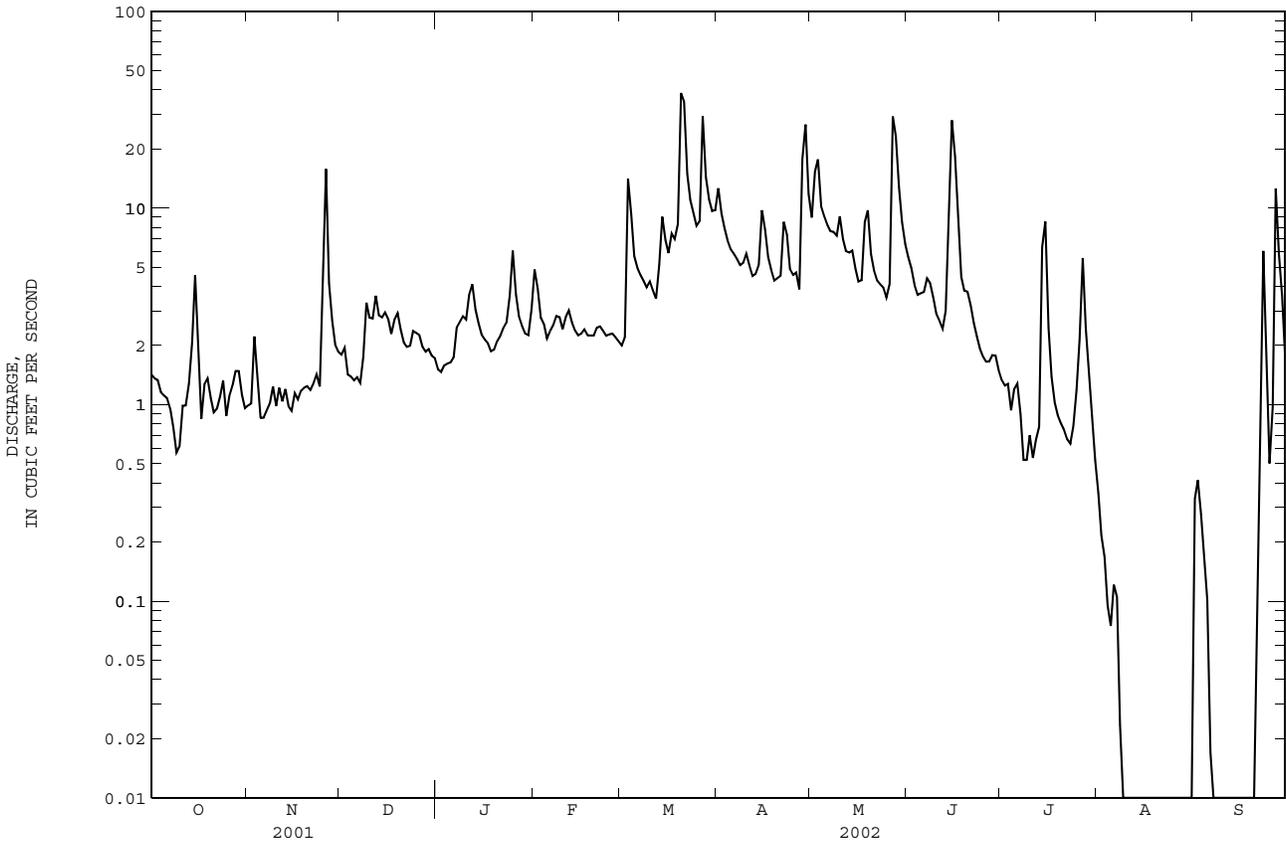
01638420 NORTH FORK CATOCTIN CREEK AT ROUTE 681 NEAR WATERFORD, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.27	1.96	2.22	2.56	2.59	10.1	7.41	8.65	4.79	2.54	2.10	2.06
MAX	1.27	1.96	2.22	2.56	2.59	10.1	7.41	8.65	4.79	4.88	4.15	2.94
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001	2001	2001
MIN	1.27	1.96	2.22	2.56	2.59	10.1	7.41	8.65	4.79	1.63	0.038	1.19
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 2001 - 2002
ANNUAL TOTAL	442.29	1352.21	
ANNUAL MEAN	2.68	3.70	3.72
HIGHEST ANNUAL MEAN			3.77 2001
LOWEST ANNUAL MEAN			3.70 2002
HIGHEST DAILY MEAN	35 Sep 24	39 Mar 20	39 Mar 20 2002
LOWEST DAILY MEAN	0.54 Sep 19	0.00 aAug 9	0.00 aAug 9 2002
ANNUAL SEVEN-DAY MINIMUM	0.62 Sep 14	0.00 Aug 9	0.00 Aug 9 2002
MAXIMUM PEAK FLOW		67 bMar 20	190 Sep 24 2001
MAXIMUM PEAK STAGE		3.01 bMar 20	3.85 Sep 24 2001
INSTANTANEOUS LOW FLOW		0.00 cAug 8	0.00 cAug 8 2002
10 PERCENT EXCEEDS	4.4	8.5	8.5
50 PERCENT EXCEEDS	1.7	2.3	2.3
90 PERCENT EXCEEDS	0.86	0.00	0.11

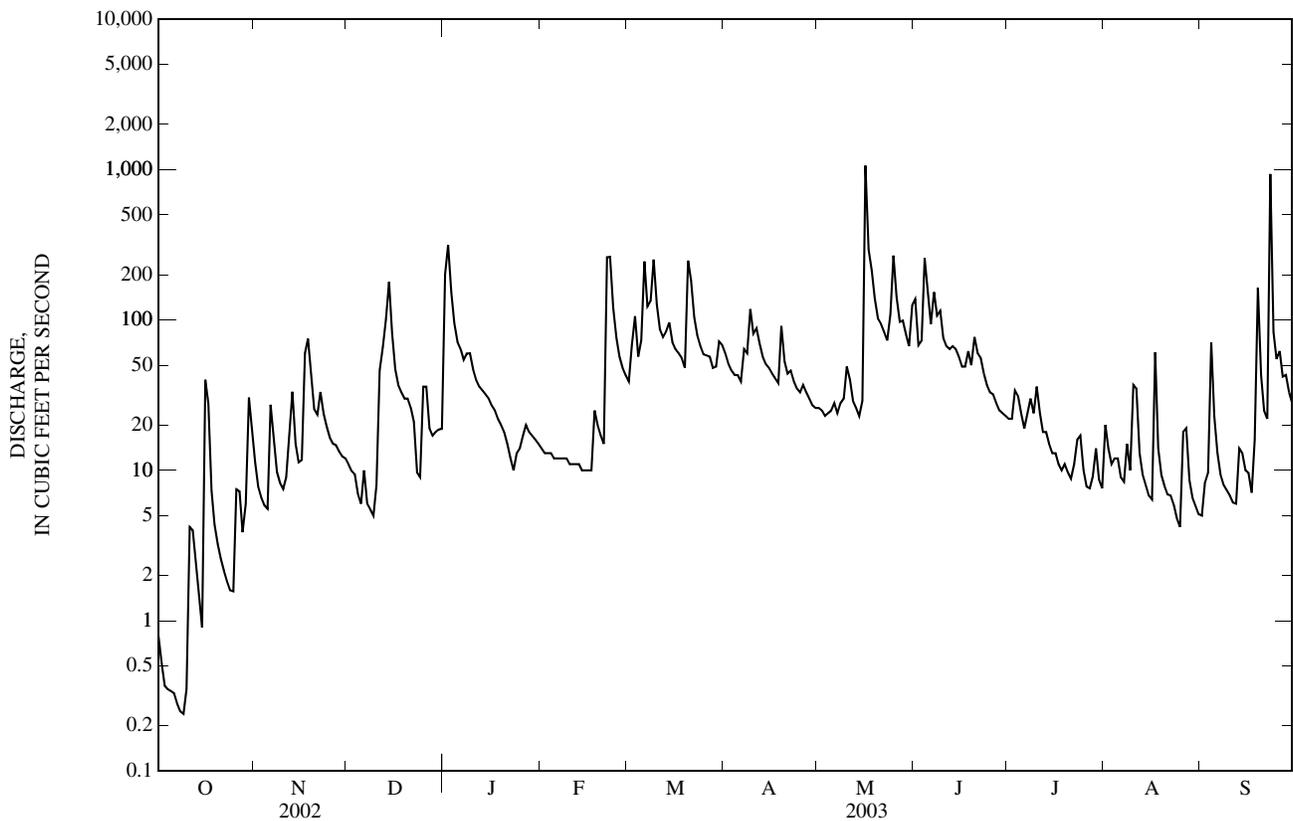
- a Also Aug. 10-31 and Sept. 7-20, 2002.
- b Also May 27, 2002.
- c No flow part or all of many days in August and September 2002.
- e Estimated.



01638420 NORTH FORK CATOCTIN CREEK AT ROUTE 681 NEAR WATERFORD, VA—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	2,908.04		17,319.42		25.6	
ANNUAL MEAN	7.97		47.5		47.5	
HIGHEST ANNUAL MEAN					3.69	2003
LOWEST ANNUAL MEAN					1,060	2002
HIGHEST DAILY MEAN	179	Dec 14	1,060	May 16	1,060	May 16, 2003
LOWEST DAILY MEAN	0.00	aAug 9	0.24	Oct 9	0.00	aAug 9, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 9	0.31	Oct 4	0.00	Aug 9, 2002
MAXIMUM PEAK FLOW			2,150	Sep 23	2,150	Sep 23, 2003
MAXIMUM PEAK STAGE			10.91	Sep 23	10.91	Sep 23, 2003
INSTANTANEOUS LOW FLOW			0.20	bOct 7	0.00	(c)
ANNUAL RUNOFF (CFSM)	0.34		2.05		1.11	
ANNUAL RUNOFF (INCHES)	4.68		27.89		15.04	
10 PERCENT EXCEEDS	19		98		64	
50 PERCENT EXCEEDS	3.8		25		7.3	
90 PERCENT EXCEEDS	0.00		6.0		0.75	

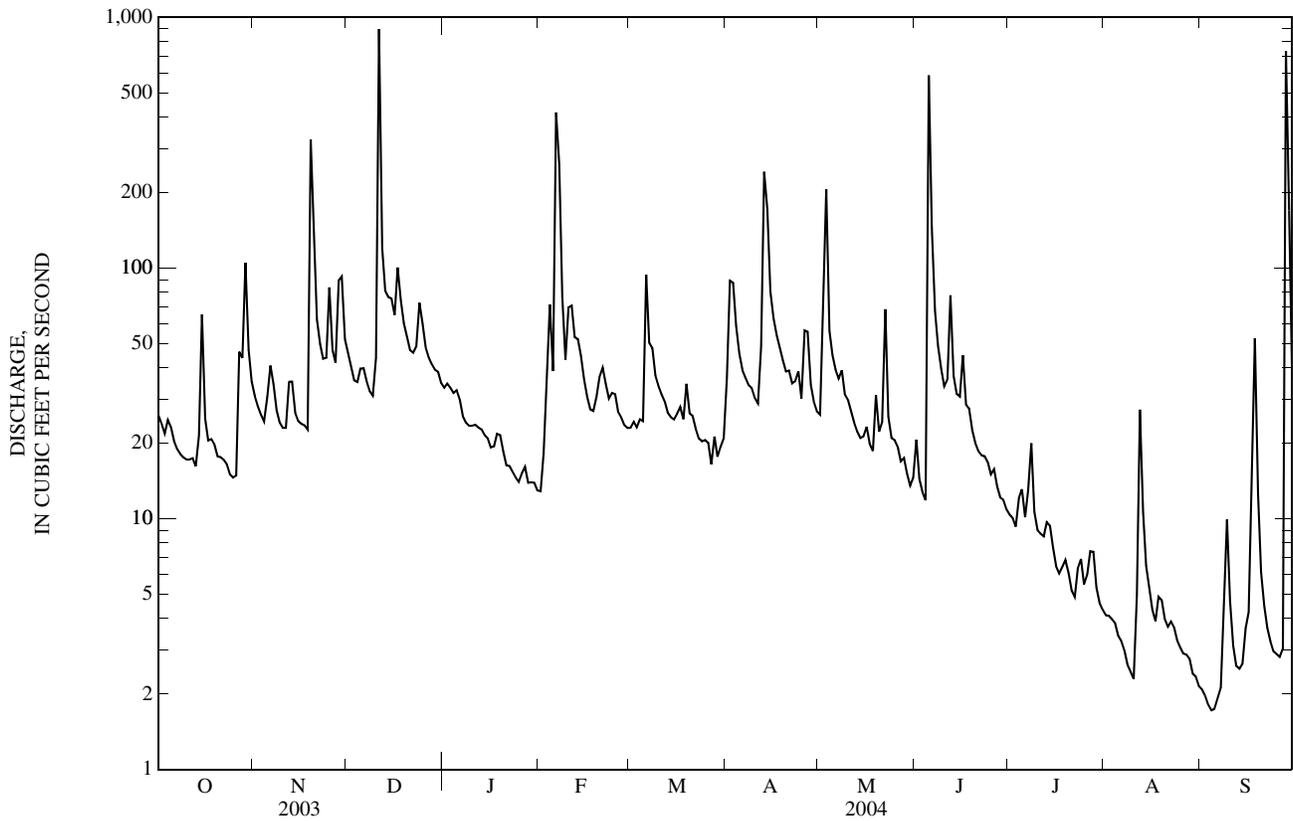
- a Also Aug. 10-31 and Sept. 7-20, 2002.
- b Also Oct. 8, 9, 2002.
- c No flow part or all of many days in August and September 2002.
- e Estimated.



01638420 NORTH FORK CATOCTIN CREEK AT ROUTE 681 NEAR WATERFORD, VA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	20,499.4		13,961.1		29.8	
ANNUAL MEAN	56.2		38.1		47.5	
HIGHEST ANNUAL MEAN					3.69	2003
LOWEST ANNUAL MEAN					3.69	2002
HIGHEST DAILY MEAN	1,060	May 16	897	Dec 11	1,060	May 16, 2003
LOWEST DAILY MEAN	4.2	Aug 25	1.7	aSep 4	0.00	bAug 9, 2002
ANNUAL SEVEN-DAY MINIMUM	6.5	Aug 19	1.9	Aug 31	0.00	Aug 9, 2002
MAXIMUM PEAK FLOW			2,170	Sep 28	2,170	Sep 28, 2004
MAXIMUM PEAK STAGE			10.97	Sep 28	10.97	Sep 28, 2004
INSTANTANEOUS LOW FLOW			1.6	aSep 4	0.00	(c)
ANNUAL RUNOFF (CFSM)	2.43		1.65		1.29	
ANNUAL RUNOFF (INCHES)	33.01		22.48		17.51	
10 PERCENT EXCEEDS	104		65		64	
50 PERCENT EXCEEDS	34		24		13	
90 PERCENT EXCEEDS	10		3.9		1.1	

- a Also Sept. 5, 2004.
- b Also Aug. 10-31 and Sept. 7-20, 2002.
- c No flow part or all of many days in August and September 2002.
- e Estimated.



POTOMAC RIVER BASIN

01638480 CATOCTIN CREEK AT TAYLORSTOWN, VA

LOCATION.--Lat 39°15'16", long 77°34'35", NAD83, Loudoun County, Hydrologic Unit 02070008, on left bank at downstream side of bridge on State Highway 663 at Taylorstown and 3.2 mi downstream from Milltown Creek.

DRAINAGE AREA.--89.6 mi².

PERIOD OF RECORD.--August 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 247.37 ft NGVD of 1929. Prior to Nov. 3, 1983, at site 60 ft upstream at datum 1.78 ft higher.

REMARKS.--Records good except those for periods of doubtful or no gage-height record, Oct. 2, Nov. 7, 27, 28, and June 1-5, which are fair. Maximum discharge, 23,800 ft³/s, from rating curve extended above 7,400 ft³/s on basis of contracted-opening measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
No peak greater than base discharge.							

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	8.1	9.8	7.7	25	8.4	65	47	e40	9.1	2.2	2.6
2	e12	7.9	9.3	7.2	23	8.8	54	114	e32	7.6	1.7	5.3
3	9.7	8.1	9.3	7.3	18	48	45	101	e26	7.1	1.2	3.7
4	9.1	16	8.5	7.7	16	47	39	57	e23	5.9	0.90	2.4
5	8.0	9.3	8.4	7.5	14	24	34	48	e21	5.2	0.73	1.7
6	7.0	6.3	8.1	8.2	13	18	32	42	24	4.4	0.68	1.0
7	6.7	e5.6	7.9	11	13	17	30	38	30	4.2	3.0	0.74
8	6.6	5.6	9.0	13	15	15	29	36	24	3.8	2.2	0.66
9	6.7	6.0	15	13	14	14	28	34	19	3.3	1.1	0.56
10	6.7	5.5	17	12	13	14	31	36	18	4.0	0.79	0.57
11	8.9	5.9	15	15	13	13	28	31	16	4.4	0.65	0.52
12	10	6.0	18	20	15	12	25	25	15	4.0	0.59	0.48
13	9.7	6.0	17	17	14	15	24	25	15	3.2	0.46	0.36
14	11	6.3	16	14	13	28	25	24	58	41	0.43	0.33
15	41	6.3	16	12	12	25	33	21	198	53	0.39	0.36
16	22	6.4	14	11	12	21	35	18	110	15	0.31	0.37
17	12	6.6	13	10	11	20	26	17	63	7.3	0.36	0.33
18	11	6.7	13	9.9	10	23	23	35	42	4.3	0.33	0.28
19	10	6.5	16	9.8	9.8	27	21	44	33	3.4	0.30	0.24
20	9.2	6.6	13	11	9.8	196	24	24	29	2.9	0.30	0.24
21	8.3	7.6	11	12	9.8	204	23	19	25	2.6	0.27	0.45
22	8.5	6.8	9.9	12	9.8	101	36	16	21	2.3	0.25	18
23	8.5	6.5	9.8	13	9.8	66	43	16	17	2.1	0.24	75
24	9.9	7.7	10	17	9.5	55	25	15	15	2.2	0.52	20
25	10	24	12	28	9.1	46	22	14	13	3.0	0.60	6.4
26	8.1	93	11	25	9.2	46	22	13	12	6.3	0.56	5.2
27	7.1	e28	10	18	9.2	146	20	243	11	28	0.46	105
28	12	e14	9.6	16	8.9	86	76	139	11	16	0.73	60
29	7.0	12	9.7	15	---	63	147	89	9.9	9.1	3.9	28
30	6.9	10	8.7	14	---	55	65	64	12	5.0	12	15
31	7.8	---	8.6	18	---	51	---	55	---	3.2	4.1	---
TOTAL	329.4	351.3	363.6	412.3	358.9	1513.2	1130	1500	982.9	272.9	42.25	355.79
MEAN	10.6	11.7	11.7	13.3	12.8	48.8	37.7	48.4	32.8	8.80	1.36	11.9
MAX	41	93	18	28	25	204	147	243	198	53	12	105
MIN	6.6	5.5	7.9	7.2	8.9	8.4	20	13	9.9	2.1	0.24	0.24
CFSM	0.12	0.13	0.13	0.15	0.14	0.54	0.42	0.54	0.37	0.10	0.02	0.13
IN.	0.14	0.15	0.15	0.17	0.15	0.63	0.47	0.62	0.41	0.11	0.02	0.15

01638480 CATOCTIN CREEK AT TAYLORSTOWN, VA--Continued

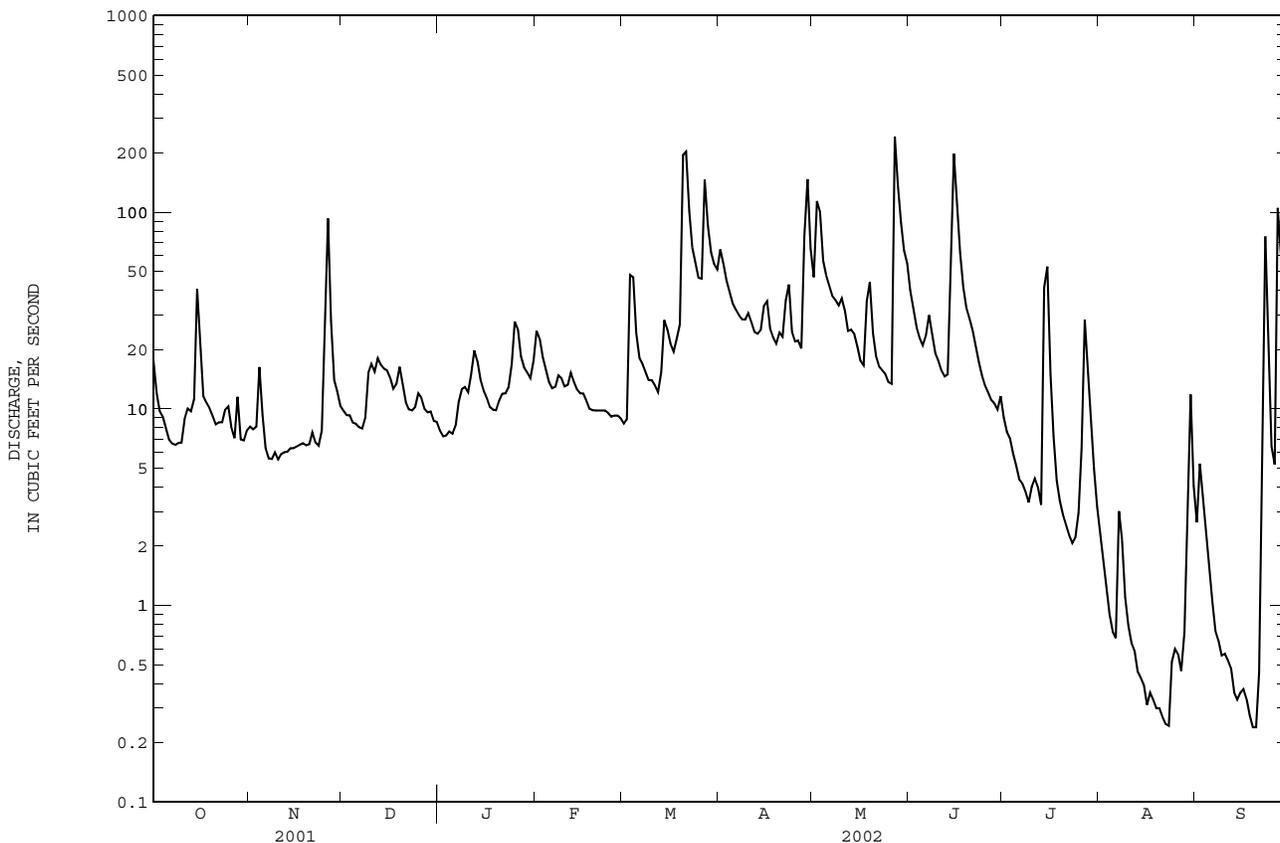
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	62.4	57.4	109	130	141	185	157	116	88.3	45.6	30.3	45.4
MAX	414	148	358	488	382	580	476	445	706	284	186	281
(WY)	1977	1997	1997	1998	1998	1993	1983	1989	1972	1987	1984	1979
MIN	2.07	5.16	3.88	10.2	12.8	43.7	37.7	26.6	6.82	1.35	1.25	1.05
(WY)	1987	1992	1999	1981	2002	1981	2002	1999	1999	1999	1999	1986

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1971 - 2002

ANNUAL TOTAL	20879.2		7612.54		96.5			
ANNUAL MEAN	57.2		20.9		20.9		1972	
HIGHEST ANNUAL MEAN					20.9		2002	
LOWEST ANNUAL MEAN					e9530		Jun 22 1972	
HIGHEST DAILY MEAN	999	Mar 30	243	May 27	0.09	bAug 14	1999	
LOWEST DAILY MEAN	3.3	Sep 19	0.24	aAug 23	0.10	Aug 14	1999	
ANNUAL SEVEN-DAY MINIMUM	4.0	Sep 14	0.29	Aug 17	23800	Jun 22	1972	
MAXIMUM PEAK FLOW			441	Jun 15	c23.83	Jun 22	1972	
MAXIMUM PEAK STAGE			4.50	Jun 15	0.08	Aug 14	1999	
INSTANTANEOUS LOW FLOW			0.19	Aug 24	1.08			
ANNUAL RUNOFF (CFSM)	0.64		0.23		14.63			
ANNUAL RUNOFF (INCHES)	8.67		3.16		200			
10 PERCENT EXCEEDS	127		46		46			
50 PERCENT EXCEEDS	29		12		6.9			
90 PERCENT EXCEEDS	6.7		0.86					

- a Also Sept. 19, 20, 2002.
- b Also Aug. 19, 20, 1999.
- c From floodmarks, site and datum then in use.
- e Estimated.



01638480 CATOCTIN CREEK AT TAYLORSTOWN, VA

LOCATION.--Lat 39°15'16", long 77°34'35", NAD83, Loudoun County, Hydrologic Unit 02070008, on left bank at downstream side of bridge on State Highway 663 at Taylorstown and 3.2 mi downstream from Milltown Creek.

DRAINAGE AREA.--89.6 mi².

PERIOD OF RECORD.--August 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 247.37 ft NGVD of 1929. Prior to Nov. 3, 1983, at site 60 ft upstream at datum 1.78 ft higher.

REMARKS.--Records good except those for periods with ice effect, Dec. 6-8, Jan. 17-29, and Feb. 13-15, and periods of doubtful or no gage-height record, Jan. 30 to Feb. 12, Feb. 17-20, May 19, Aug. 18, 19, and Sept. 25-30, which are fair. Maximum discharge, 23,800 ft³/s, from rating curve extended above 7,400 ft³/s on basis of contracted-opening measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 1	2245	3,730	10.06	May 25	0515	1,640	7.01
Feb 22	2000	1,900	7.45	May 31	2100	1,730	7.16
Mar 9	1800	1,470	6.72	Jun 4	1000	1,320	6.45
Mar 20	2030	2,620	8.58	Sep 23	1030	*9,800	*15.59
May 16	1030	7,660	13.88				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	88	50	757	e46	147	206	97	670	81	92	39
2	7.4	66	46	1,250	e45	231	171	93	328	74	64	46
3	5.8	55	44	560	e44	451	153	85	303	109	49	50
4	5.2	48	39	411	e52	250	143	78	977	124	49	376
5	4.7	44	35	281	e63	274	138	81	824	88	55	183
6	4.3	170	e47	241	e52	822	134	99	587	88	43	103
7	3.8	103	e43	201	e46	485	198	97	775	97	39	78
8	3.6	68	e41	210	e41	474	230	111	561	131	64	66
9	3.2	59	40	243	e38	879	433	122	527	89	45	59
10	4.1	52	39	172	e45	509	388	182	372	145	72	53
11	13	54	177	145	e42	331	391	200	301	106	121	49
12	50	87	393	127	e38	294	329	133	367	82	61	45
13	27	195	468	118	e35	287	255	112	308	80	45	74
14	17	100	998	112	e32	365	219	100	417	67	39	71
15	11	77	548	105	e48	263	196	113	294	57	35	60
16	88	73	277	91	40	227	178	5,030	228	51	32	55
17	169	348	205	e88	e38	205	160	1,200	205	46	327	47
18	69	462	169	e80	e65	190	152	723	269	42	e110	72
19	45	256	152	e70	e55	165	331	e440	243	43	e62	661
20	36	176	162	e65	e50	841	251	358	292	41	53	302
21	29	149	149	e60	85	822	194	316	281	38	48	196
22	24	182	125	e56	779	401	190	310	232	41	44	153
23	21	122	98	e52	975	282	167	252	192	108	45	5,400
24	19	95	88	e50	493	230	145	385	156	86	36	570
25	18	80	119	e47	330	195	136	872	133	53	33	e285
26	59	71	149	e54	237	179	144	514	115	42	85	e220
27	57	67	111	e60	186	189	136	394	104	39	132	e170
28	36	61	99	e57	163	153	119	396	92	38	64	e190
29	38	56	98	e54	---	147	109	338	84	83	50	e140
30	196	54	106	e51	---	209	102	272	78	46	46	e120
31	145	---	104	e48	---	249	---	508	---	39	41	---
TOTAL	1,218.5	3,518	5,219	5,916	4,163	10,746	6,098	14,011	10,315	2,254	2,081	9,933
MEAN	39.3	117	168	191	149	347	203	452	344	72.7	67.1	331
MAX	196	462	998	1,250	975	879	433	5,030	977	145	327	5,400
MIN	3.2	44	35	47	32	147	102	78	78	38	32	39
CFSM	0.44	1.31	1.88	2.13	1.66	3.87	2.27	5.04	3.84	0.81	0.75	3.70
IN.	0.51	1.46	2.17	2.46	1.73	4.46	2.53	5.82	4.28	0.94	0.86	4.12

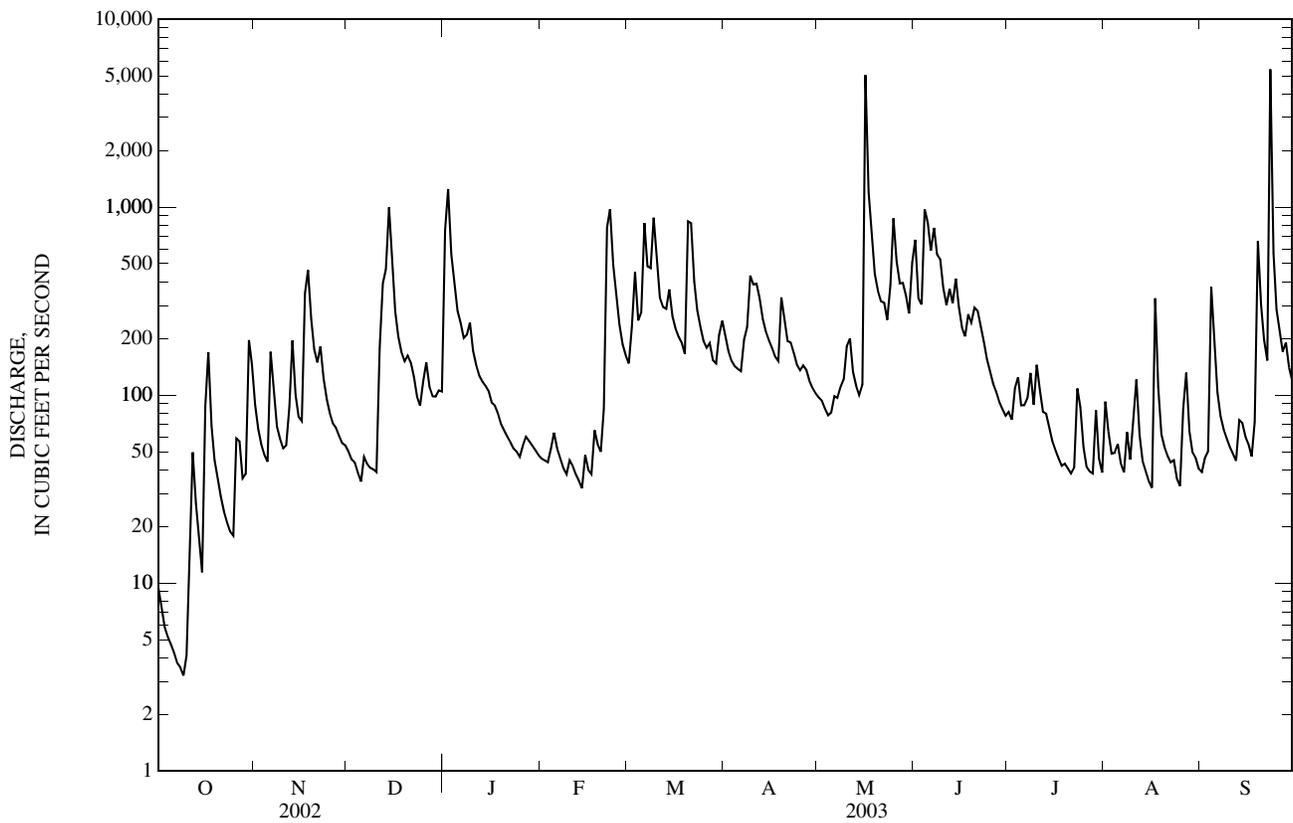
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2003, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)																
	61.7	414	2.07	(1977)	59.3	148	5.16	(1997)	111	358	3.88	(1999)	131	488	10.2	(1998)	141	382	12.8	(1998)
	158	580	43.7	(1993)	190	580	26.6	(2003)	158	476	37.7	(1983)	126	452	6.82	(1999)	96.3	706	1.35	(1999)
	126	452	26.6	(1999)	46.4	284	1.35	(1987)	31.4	186	1.25	(1984)	31.4	186	1.25	(1984)	54.1	331	1.05	(1986)

01638480 CATOCTIN CREEK AT TAYLORSTOWN, VA—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1971 - 2003	
ANNUAL TOTAL	16,523.74		75,472.5		99.9	
ANNUAL MEAN	45.3		207		207	
HIGHEST ANNUAL MEAN					20.9	2003
LOWEST ANNUAL MEAN					20.9	2002
HIGHEST DAILY MEAN	998	Dec 14	5,400	Sep 23	e9,530	Jun 22, 1972
LOWEST DAILY MEAN	0.24	aAug 23	3.2	Oct 9	0.09	bAug 14, 1999
ANNUAL SEVEN-DAY MINIMUM	0.29	Aug 17	4.1	Oct 4	0.10	Aug 14, 1999
MAXIMUM PEAK FLOW			9,800	Sep 23	23,800	Jun 22, 1972
MAXIMUM PEAK STAGE			15.59	Sep 23	c23.83	Jun 22, 1972
INSTANTANEOUS LOW FLOW			3.0	Oct 9	0.08	Aug 14, 1999
ANNUAL RUNOFF (CFSM)	0.51		2.31		1.12	
ANNUAL RUNOFF (INCHES)	6.86		31.33		15.15	
10 PERCENT EXCEEDS	108		423		209	
50 PERCENT EXCEEDS	19		105		47	
90 PERCENT EXCEEDS	0.86		39		7.1	

- a Also Sept. 19, 20, 2002.
- b Also Aug. 19, 20, 1999.
- c From floodmarks, site and datum then in use.
- e Estimated.



01638480 CATOCTIN CREEK AT TAYLORSTOWN, VA

LOCATION.--Lat 39°15'16", long 77°34'35", NAD83, Loudoun County, Hydrologic Unit 02070008, on left bank at downstream side of bridge on State Highway 663 at Taylorstown and 3.2 mi downstream from Milltown Creek.

DRAINAGE AREA.--89.6 mi².

PERIOD OF RECORD.--August 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 247.37 ft NGVD of 1929. Prior to Nov. 3, 1983, at site 60 ft upstream at datum 1.78 ft higher.

REMARKS.--Records good except those for periods of doubtful or no gage-height record, Oct. 1, 2, Feb. 9, 10, Apr. 15-22, May 4, 5, 28, June 3, 4, 6-11, 13-21, and Sept. 18, and period with ice effect, Jan. 8 to Feb. 3, which are fair. Maximum discharge, 23,800 ft³/s, from rating curve extended above 7,400 ft³/s on basis of contracted-opening measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 19	1730	2,970	9.11	Apr 13	2215	1,770	7.23
Dec 11	0600	7,700	13.91	May 3	0100	2,690	8.69
Feb 6	1400	2,150	7.84	Jun 5	1230	3,840	10.19
Apr 13	0245	1,220	6.26	Sep 28	2245	*9,440	*15.31

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	e100	133	194	161	e51	89	146	136	90	39	17	6.5
2	e89	114	159	160	e48	92	429	325	82	38	17	6.1
3	81	100	136	160	e110	90	452	1,200	e65	35	16	6.0
4	86	91	128	153	286	91	303	e290	e60	40	15	5.7
5	85	100	143	153	210	93	222	e220	1,680	60	14	5.7
6	74	161	149	154	982	413	178	187	e300	42	13	5.7
7	70	126	137	131	1,070	276	166	158	e180	52	11	6.4
8	67	99	127	e115	450	261	157	173	e160	102	11	9.8
9	64	85	121	e102	e230	184	146	140	e110	49	10	26
10	61	81	142	e90	e270	156	129	160	e90	37	9.8	19
11	60	79	4,580	e96	360	136	121	120	e110	35	14	10
12	60	115	646	e105	270	124	190	102	364	37	104	8.0
13	59	135	452	e100	258	109	1,060	89	e200	38	57	7.7
14	70	93	414	e94	219	101	835	80	e115	38	34	7.5
15	275	84	432	e90	161	98	e400	77	e120	35	24	8.1
16	105	81	404	e82	129	99	e270	88	e180	28	19	11
17	80	79	510	e85	113	111	e230	77	e130	26	16	17
18	75	75	429	e92	109	98	e200	69	e120	25	18	e243
19	68	919	333	e82	122	138	e175	124	e80	27	19	89
20	62	803	295	e77	152	111	e150	89	e70	25	16	35
21	60	292	255	e70	167	101	e165	78	e65	22	13	25
22	59	220	237	e67	148	90	e145	201	63	20	13	20
23	58	187	242	e66	123	82	183	101	62	26	13	18
24	54	171	317	e64	123	80	243	78	60	30	11	15
25	52	299	330	e62	129	79	182	69	54	25	9.4	14
26	52	181	243	e58	108	76	265	86	55	24	8.8	14
27	169	159	217	e56	101	74	392	70	49	28	8.3	13
28	206	267	196	e55	96	76	255	e80	44	35	7.8	3,060
29	490	436	189	e54	91	69	187	74	44	27	7.8	1,660
30	235	224	181	e53	---	67	158	62	41	20	7.4	217
31	161	---	168	e52	---	79	---	63	---	18	6.9	---
TOTAL	3,287	5,989	12,506	2,939	6,686	3,743	8,134	4,866	4,843	1,083	561.2	5,589.2
MEAN	106	200	403	94.8	231	121	271	157	161	34.9	18.1	186
MAX	490	919	4,580	161	1,070	413	1,060	1,200	1,680	102	104	3,060
MIN	52	75	121	52	48	67	121	62	41	18	6.9	5.7
CFSM	1.18	2.23	4.50	1.06	2.57	1.35	3.03	1.75	1.80	0.39	0.20	2.08
IN.	1.36	2.49	5.19	1.22	2.78	1.55	3.38	2.02	2.01	0.45	0.23	2.32

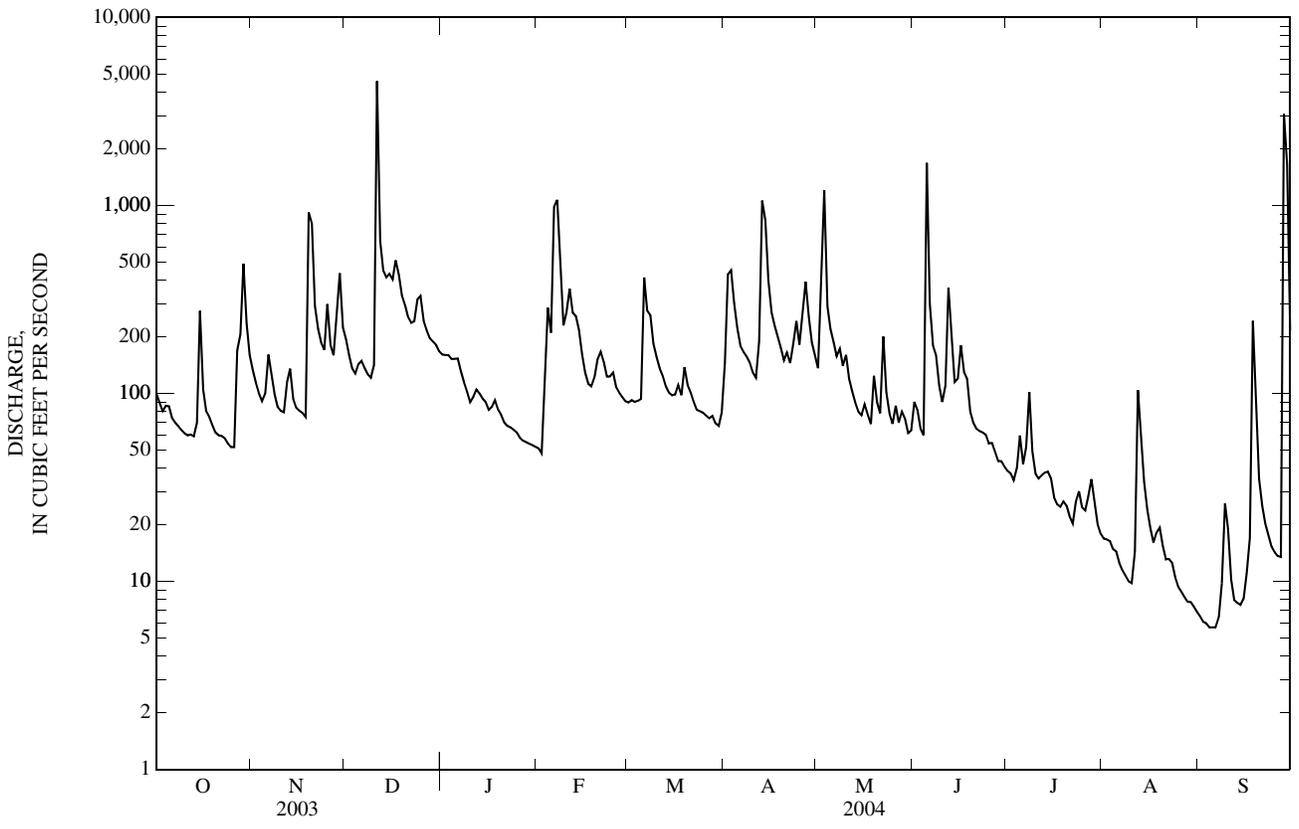
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

MEAN	63.0	63.5	120	130	144	188	161	127	98.2	46.1	31.0	58.0
MAX	414	200	403	488	382	580	476	452	706	284	186	331
(WY)	(1977)	(2004)	(2004)	(1998)	(1998)	(1993)	(1983)	(2003)	(1972)	(1987)	(1984)	(2003)
MIN	2.07	5.16	3.88	10.2	12.8	43.7	37.7	26.6	6.82	1.35	1.25	1.05
(WY)	(1987)	(1992)	(1999)	(1981)	(2002)	(1981)	(2002)	(1999)	(1999)	(1999)	(1999)	(1986)

01638480 CATOCTIN CREEK AT TAYLORSTOWN, VA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	87,299		60,226.4		102	
ANNUAL MEAN	239		165		207	
HIGHEST ANNUAL MEAN					20.9	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	5,400	Sep 23	4,580	Dec 11	e9,530	Jun 22, 1972
LOWEST DAILY MEAN	e32	Feb 14	5.7	aSep 4	0.09	bAug 14, 1999
ANNUAL SEVEN-DAY MINIMUM	e39	Feb 8	6.0	Sep 1	0.10	Aug 14, 1999
MAXIMUM PEAK FLOW			9,440	Sep 28	23,800	Jun 22, 1972
MAXIMUM PEAK STAGE			15.31	Sep 28	c23.83	Jun 22, 1972
INSTANTANEOUS LOW FLOW			5.6	aSep 4	0.08	Aug 14, 1999
ANNUAL RUNOFF (CFSM)	2.67		1.84		1.14	
ANNUAL RUNOFF (INCHES)	36.24		25.00		15.45	
10 PERCENT EXCEEDS	451		293		212	
50 PERCENT EXCEEDS	133		92		48	
90 PERCENT EXCEEDS	46		15		7.1	

a Also Sept. 5, 6, 2004.
 b Also Aug. 19, 20, 1999.
 c From floodmarks, site and datum then in use.
 e Estimated.



01643590 LIMESTONE BRANCH NEAR LEESBURG, VA--Continued

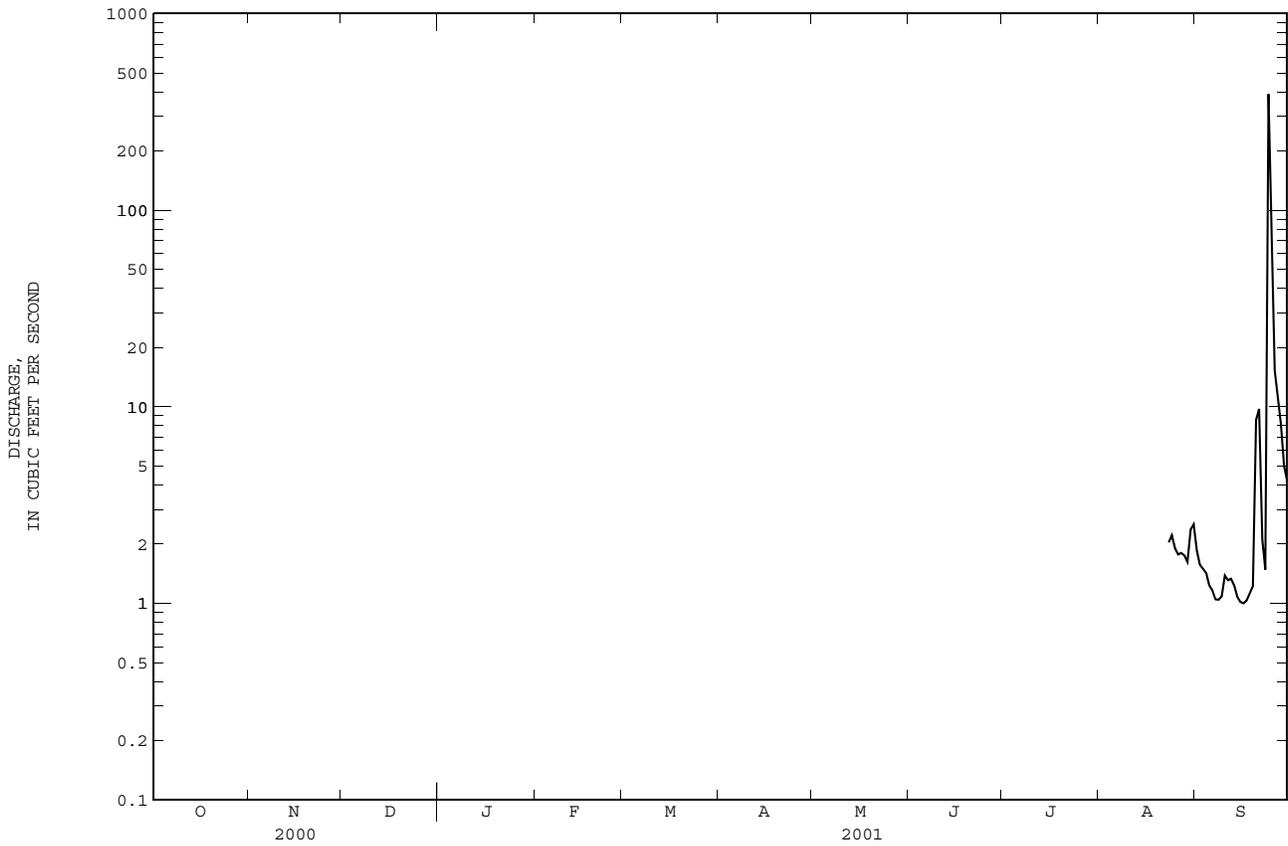
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	---	---	---	---	---	---	---	2.00	17.7
MAX	---	---	---	---	---	---	---	---	---	---	2.00	17.7
(WY)	---	---	---	---	---	---	---	---	---	---	2001	2001
MIN	---	---	---	---	---	---	---	---	---	---	2.00	17.7
(WY)	---	---	---	---	---	---	---	---	---	---	2001	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

ANNUAL TOTAL	549.90
ANNUAL MEAN	14.1
HIGHEST DAILY MEAN	389 Sep 24
LOWEST DAILY MEAN	1.0 Sep 7
ANNUAL SEVEN-DAY MINIMUM	1.1 Sep 13
MAXIMUM PEAK FLOW	3130 Sep 24
MAXIMUM PEAK STAGE	7.72 Sep 24
INSTANTANEOUS LOW FLOW	0.87 Sep 6
10 PERCENT EXCEEDS	11
50 PERCENT EXCEEDS	1.6
90 PERCENT EXCEEDS	1.0



POTOMAC RIVER BASIN

01643590 LIMESTONE BRANCH NEAR LEESBURG, VA--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	1.8	1.8	1.1	3.3	0.81	5.0	5.1	2.5	1.0	0.85	4.1
2	2.8	1.8	1.4	1.1	2.0	1.0	3.9	9.1	1.6	0.99	0.77	1.7
3	2.7	1.7	1.5	1.3	1.7	9.3	3.6	5.1	1.3	0.93	0.82	1.1
4	2.3	1.6	1.5	1.1	2.0	3.3	3.9	4.0	1.5	0.90	0.86	0.88
5	2.3	1.5	1.3	1.2	1.6	2.3	2.8	3.9	1.6	0.86	0.95	0.85
6	1.9	1.5	1.2	1.6	1.4	2.0	2.4	3.6	1.8	0.82	1.1	0.86
7	1.9	1.7	1.2	2.3	1.9	1.7	2.3	3.6	2.4	0.84	0.83	0.87
8	1.7	2.2	2.2	2.1	2.2	1.6	2.1	4.4	1.8	0.89	0.82	0.88
9	1.6	1.8	3.1	2.0	1.7	1.9	2.9	3.9	1.6	0.91	0.76	0.87
10	1.8	2.0	2.0	1.9	1.7	2.5	2.7	2.9	1.4	1.1	0.77	0.87
11	1.8	1.9	3.2	2.7	2.7	1.2	2.1	1.7	1.2	0.86	0.78	0.86
12	1.6	1.9	2.8	2.5	1.9	1.1	2.0	2.6	1.1	0.84	0.79	0.85
13	1.7	2.3	2.6	1.9	1.6	2.6	2.5	3.0	1.5	0.93	0.75	0.95
14	2.5	2.2	2.9	1.6	1.7	3.1	2.8	1.9	3.2	5.9	0.71	1.0
15	7.0	2.2	2.7	1.7	1.8	2.4	3.0	1.7	13	2.6	0.80	1.2
16	2.4	2.0	2.2	1.6	1.9	2.4	2.4	1.4	3.5	1.3	0.79	1.3
17	2.9	1.9	2.3	1.4	1.9	2.4	1.7	1.4	2.3	1.0	0.76	1.2
18	2.1	1.9	3.1	1.4	1.4	3.5	1.4	3.0	2.1	0.90	0.75	1.2
19	2.2	1.8	2.4	1.7	1.3	3.4	1.4	1.8	1.5	0.87	0.72	1.1
20	3.6	1.6	2.1	1.9	1.5	35	1.7	1.2	1.3	0.86	0.70	1.2
21	2.9	1.6	1.5	1.8	1.6	16	2.5	1.2	1.4	0.87	0.68	1.2
22	1.6	1.3	1.4	1.8	1.4	8.4	5.6	1.2	1.2	0.86	0.69	1.5
23	1.9	1.3	1.5	2.1	1.3	6.7	2.9	1.1	1.1	0.91	0.75	9.9
24	1.9	1.6	2.1	2.7	1.1	5.3	2.3	1.0	0.99	1.0	0.79	1.5
25	1.6	9.6	2.0	3.1	0.97	4.6	2.4	1.1	1.0	0.93	0.74	0.95
26	1.4	9.2	1.7	2.3	1.2	5.6	1.9	9.1	0.98	2.2	0.76	8.1
27	1.6	2.5	1.5	2.0	1.3	10	1.7	20	1.0	3.1	0.77	15
28	1.6	2.1	1.5	1.9	1.1	5.8	20	11	1.1	2.4	1.3	9.4
29	1.6	2.0	1.5	1.9	---	5.3	11	5.4	1.1	1.2	1.8	2.8
30	1.6	2.0	1.4	2.0	---	4.8	7.0	4.3	1.0	1.0	1.0	2.0
31	1.7	---	1.2	2.7	---	4.9	---	3.6	---	0.92	0.93	---
TOTAL	70.0	70.5	60.8	58.4	47.17	160.91	109.9	124.3	59.07	40.69	26.29	76.19
MEAN	2.26	2.35	1.96	1.88	1.68	5.19	3.66	4.01	1.97	1.31	0.85	2.54
MAX	7.0	9.6	3.2	3.1	3.3	35	20	20	13	5.9	1.8	15
MIN	1.4	1.3	1.2	1.1	0.97	0.81	1.4	1.0	0.98	0.82	0.68	0.85

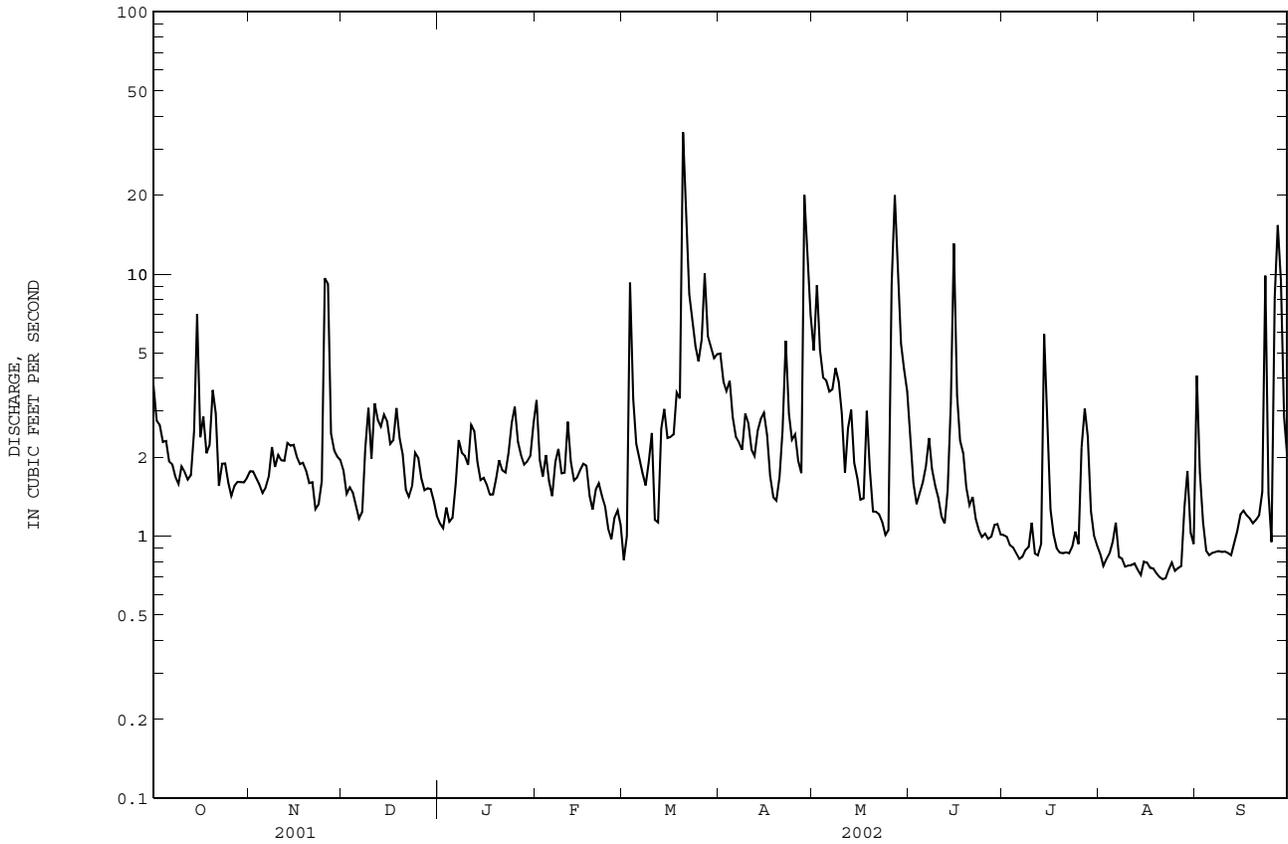
01643590 LIMESTONE BRANCH NEAR LEESBURG, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.26	2.35	1.96	1.88	1.68	5.19	3.66	4.01	1.97	1.31	1.11	10.1
MAX	2.26	2.35	1.96	1.88	1.68	5.19	3.66	4.01	1.97	1.31	2.00	17.7
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001	2001
MIN	2.26	2.35	1.96	1.88	1.68	5.19	3.66	4.01	1.97	1.31	0.85	2.54
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 2001 - 2002	
ANNUAL TOTAL	751.20		904.22			
ANNUAL MEAN	5.73		2.48		3.60	
HIGHEST ANNUAL MEAN					14.1	2001
LOWEST ANNUAL MEAN					2.48	2002
HIGHEST DAILY MEAN	389	Sep 24	35	Mar 20	389	Sep 24 2001
LOWEST DAILY MEAN	1.0	Sep 7	0.68	Aug 21	0.68	Aug 21 2002
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 13	0.72	Aug 17	0.72	Aug 17 2002
MAXIMUM PEAK FLOW			111	May 26	3130	Sep 24 2001
MAXIMUM PEAK STAGE			1.84	May 26	7.72	Sep 24 2001
INSTANTANEOUS LOW FLOW			0.60	aAug 13	0.60	aAug 13 2002
10 PERCENT EXCEEDS	3.8		4.2		4.9	
50 PERCENT EXCEEDS	1.8		1.7		1.7	
90 PERCENT EXCEEDS	1.2		0.86		0.87	

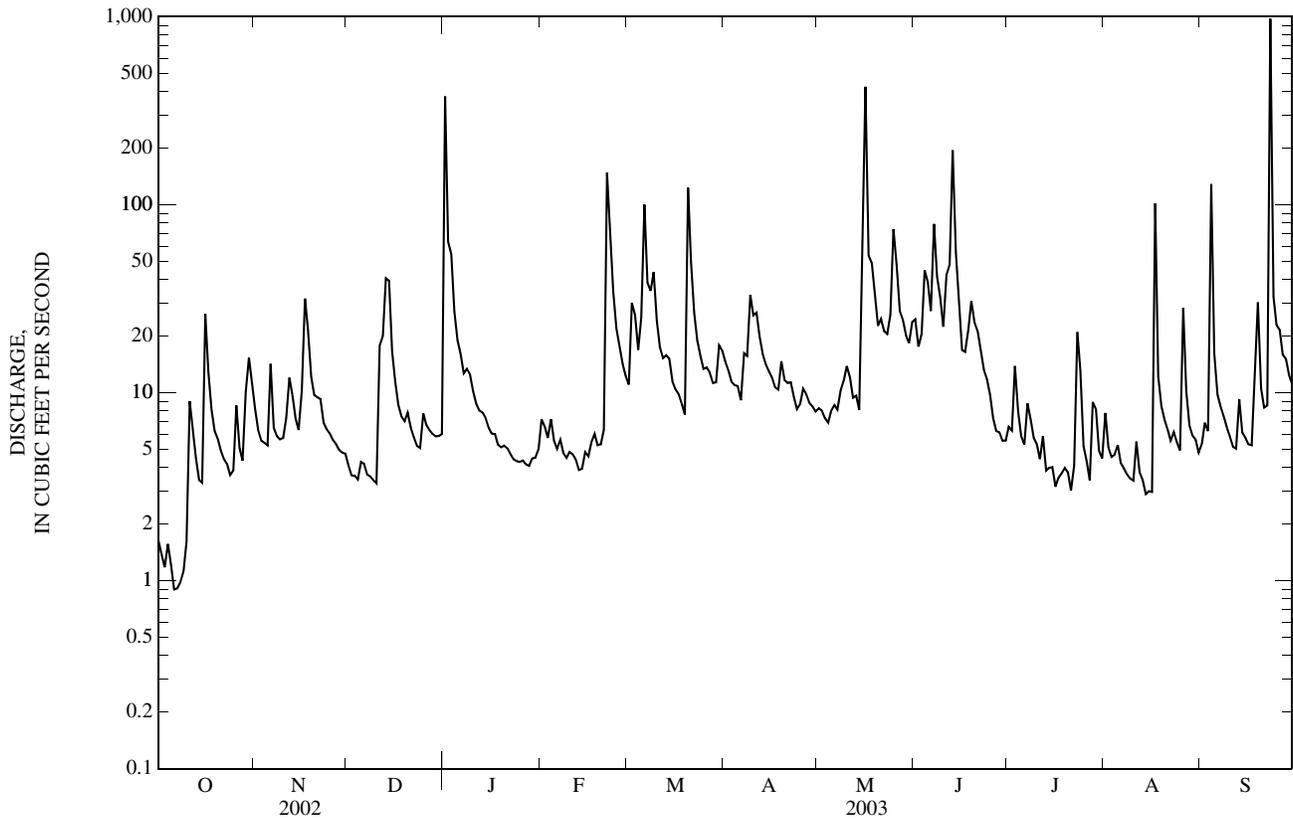
a Also Aug. 14, 19-22, 2002.



01643590 LIMESTONE BRANCH NEAR LEESBURG, VA—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	1,418.21		6,991.09		10.8	
ANNUAL MEAN	3.89		19.2		2.48	
HIGHEST ANNUAL MEAN					19.2	2003
LOWEST ANNUAL MEAN					2.48	2002
HIGHEST DAILY MEAN	41	Dec 13	976	Sep 23	976	Sep 23, 2003
LOWEST DAILY MEAN	0.68	Aug 21	0.90	Oct 6	0.68	Aug 21, 2002
ANNUAL SEVEN-DAY MINIMUM	0.72	Aug 17	1.1	Oct 3	0.72	Aug 17, 2002
MAXIMUM PEAK FLOW			8,950	Sep 23	8,950	Sep 23, 2003
MAXIMUM PEAK STAGE			a11.19	Sep 23	a11.19	Sep 23, 2003
INSTANTANEOUS LOW FLOW			0.79	Oct 6	0.60	bAug 13, 2002
ANNUAL RUNOFF (CFSM)	0.49		2.44		1.38	
ANNUAL RUNOFF (INCHES)	6.71		33.09		18.70	
10 PERCENT EXCEEDS	8.8		31		20	
50 PERCENT EXCEEDS	2.0		8.1		4.0	
90 PERCENT EXCEEDS	0.86		3.9		1.0	

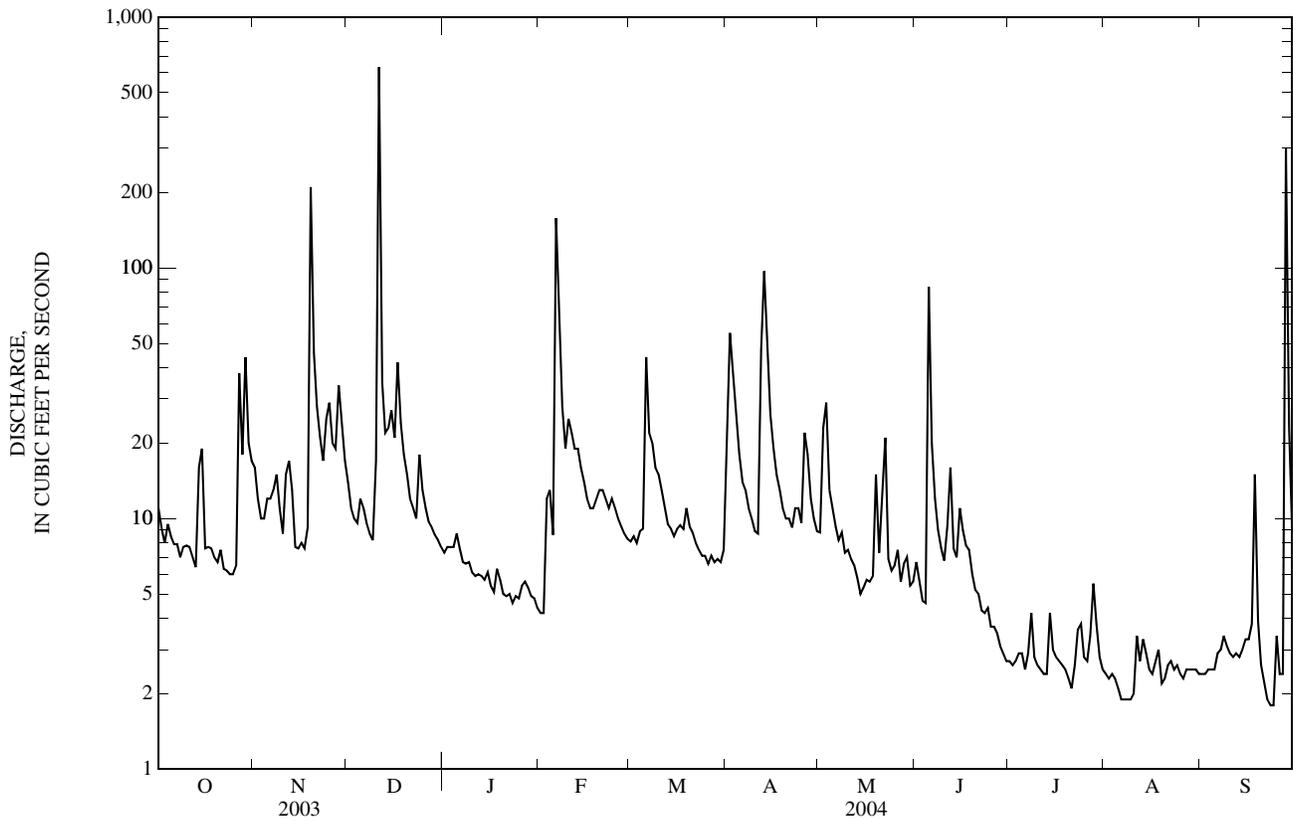
a From floodmarks.
 b Also Aug. 14, 19-22, 2002.



01643590 LIMESTONE BRANCH NEAR LEESBURG, VA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	8,412.7		5,030.3		11.8	
ANNUAL MEAN	23.0		13.7		19.2	
HIGHEST ANNUAL MEAN					2003	
LOWEST ANNUAL MEAN					2.48	
HIGHEST DAILY MEAN	976	Sep 23	633	Dec 11	976	Sep 23, 2003
LOWEST DAILY MEAN	2.9	Aug 14	1.8	Sep 23	0.68	Aug 21, 2002
ANNUAL SEVEN-DAY MINIMUM	3.6	Aug 10	2.0	Aug 4	0.72	Aug 17, 2002
MAXIMUM PEAK FLOW			2,660	Dec 11	8,950	Sep 23, 2003
MAXIMUM PEAK STAGE			7.45	Dec 11	a11.19	Sep 23, 2003
INSTANTANEOUS LOW FLOW			1.6	bAug 6	0.60	cAug 13, 2002
ANNUAL RUNOFF (CFSM)	2.93		1.75		1.50	
ANNUAL RUNOFF (INCHES)	39.82		23.81		20.39	
10 PERCENT EXCEEDS	34		22		21	
50 PERCENT EXCEEDS	10		7.7		5.3	
90 PERCENT EXCEEDS	4.6		2.5		1.2	

a From floodmarks.
 b Also Sept. 23, 24, 2004.
 c Also Aug. 14, 19-22, 2002.



POTOMAC RIVER BASIN

01643700 GOOSE CREEK NEAR MIDDLEBURG, VA

LOCATION.--Lat 38°59'11", long 77°47'48", NAD83, Loudoun County, Hydrologic Unit 02070008, on right bank 250 ft upstream from bridge on State Highway 611, 2.0 mi downstream from Panther Skin Creek, and 3.4 mi northwest of Middleburg.

DRAINAGE AREA.--123 mi².

PERIOD OF RECORD.--October 1965 to September 1967, July 1969 to September 1996, June 2001 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 329.80 ft NGVD of 1929. October 1965 to September 1967, at site 300 ft downstream at datum 0.73 ft lower.

REMARKS.--Records good except for period with ice effect, Dec. 28, 2001 to Jan. 2, 2002, which is fair. Maximum discharge, 19,2200 ft³/s, from rating curve extended above 2,900 ft³/s on basis of slope-area measurements at gage heights 14.11 and 27.46 ft. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
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No peak greater than base discharge in water years 2001 (partial) and 2002.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	24	22	3.2
2	---	---	---	---	---	---	---	---	---	23	15	3.9
3	---	---	---	---	---	---	---	---	---	20	11	3.6
4	---	---	---	---	---	---	---	---	---	26	20	3.1
5	---	---	---	---	---	---	---	---	---	122	24	2.5
6	---	---	---	---	---	---	---	---	---	39	14	2.2
7	---	---	---	---	---	---	---	---	---	25	11	1.5
8	---	---	---	---	---	---	---	---	---	46	8.0	1.2
9	---	---	---	---	---	---	---	---	---	68	6.1	1.2
10	---	---	---	---	---	---	---	---	---	31	4.7	1.3
11	---	---	---	---	---	---	---	---	---	28	87	1.2
12	---	---	---	---	---	---	---	---	---	22	92	1.1
13	---	---	---	---	---	---	---	---	---	18	57	1.2
14	---	---	---	---	---	---	---	---	---	15	38	1.2
15	---	---	---	---	---	---	---	---	---	13	21	1.1
16	---	---	---	---	---	---	---	---	---	11	14	0.82
17	---	---	---	---	---	---	---	---	---	11	10	0.79
18	---	---	---	---	---	---	---	---	---	24	9.1	0.67
19	---	---	---	---	---	---	---	---	---	38	8.7	0.51
20	---	---	---	---	---	---	---	---	---	20	11	0.96
21	---	---	---	---	---	---	---	---	---	15	9.7	3.8
22	---	---	---	---	---	---	---	---	---	12	6.5	3.7
23	---	---	---	---	---	---	---	---	---	9.5	5.4	3.3
24	---	---	---	---	---	---	---	---	---	7.9	20	56
25	---	---	---	---	---	---	---	---	---	6.9	16	160
26	---	---	---	---	---	---	---	---	---	5.9	8.7	27
27	---	---	---	---	---	---	---	---	---	11	6.3	9.6
28	---	---	---	---	---	---	---	---	---	30	11	5.6
29	---	---	---	---	---	---	---	---	---	27	17	3.9
30	---	---	---	---	---	---	---	---	---	26	65	4.4
31	---	---	---	---	---	---	---	---	---	35	4.4	2.8
TOTAL	---	---	---	---	---	---	---	---	83	820.2	575.2	308.95
MEAN	---	---	---	---	---	---	---	---	27.7	26.5	18.6	10.3
MAX	---	---	---	---	---	---	---	---	30	122	92	160
MIN	---	---	---	---	---	---	---	---	26	5.9	3.6	0.51
CFSM	---	---	---	---	---	---	---	---	0.22	0.22	0.15	0.08
IN.	---	---	---	---	---	---	---	---	0.03	0.25	0.17	0.09

01643700 GOOSE CREEK NEAR MIDDLEBURG, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1967, 1969 - 1996, 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	86.3	91.6	147	169	205	242	224	164	119	55.0	50.5	55.5
MAX	602	233	455	520	609	722	688	463	645	217	206	410
(WY)	1980	1978	1997	1996	1984	1993	1983	1989	1972	1972	1967	1996
MIN	0.004	3.41	4.17	7.65	38.0	51.3	43.5	26.1	15.2	2.81	0.41	0.000
(WY)	1992	1992	1966	1966	1989	1981	1981	1985	1986	1966	1991	1991

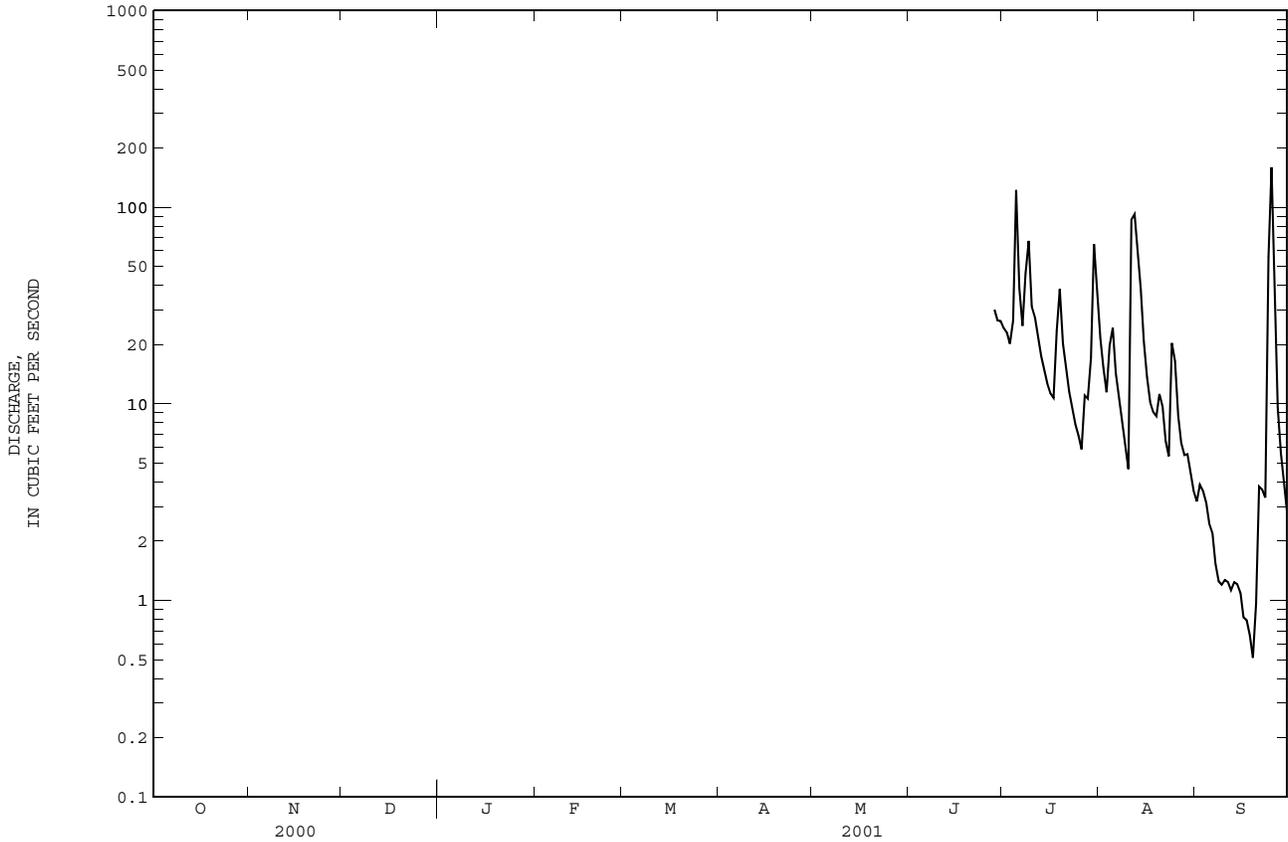
SUMMARY STATISTICS

FOR 2001 WATER YEAR

WATER YEARS 1966 - 1967
1969 - 1996
2001

ANNUAL TOTAL	1787.35		
ANNUAL MEAN	18.8	132	
HIGHEST ANNUAL MEAN		272	1997
LOWEST ANNUAL MEAN		14.1	1969
HIGHEST DAILY MEAN	160	Sep 25	e7500 Oct 9 1976
LOWEST DAILY MEAN	0.51	Sep 19	0.00 aSep 21 1985
ANNUAL SEVEN-DAY MINIMUM	0.86	Sep 14	0.00 bSep 2 1991
MAXIMUM PEAK FLOW	799	Aug 11	19200 Jun 22 1972
MAXIMUM PEAK STAGE	5.20	Aug 11	27.46 Jun 22 1972
INSTANTANEOUS LOW FLOW	0.43	Sep 19	0.00 bSep 20 1985
ANNUAL RUNOFF (CFSM)	0.15		1.07
ANNUAL RUNOFF (INCHES)	0.54		14.60
10 PERCENT EXCEEDS	42		301
50 PERCENT EXCEEDS	11		70
90 PERCENT EXCEEDS	1.2		5.9

- a Also Sept. 22-26, 1985, Sept. 29 to Oct. 3, 1986, and many days in September to November 1991.
- b Also Sept. 21-27, 1985, Sept. 29 to Oct. 3, 1986, and many days in September to November 1991.
- e Estimated.



POTOMAC RIVER BASIN

01643700 GOOSE CREEK NEAR MIDDLEBURG, VA--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	6.0	8.6	e5.8	15	6.1	44	107	24	11	3.6	2.5
2	1.9	6.1	8.7	e5.5	16	6.3	36	142	18	9.1	2.4	2.5
3	1.4	6.5	7.2	5.5	15	59	31	109	14	8.1	1.7	2.0
4	1.3	8.4	6.3	5.8	14	42	28	82	14	6.8	1.1	1.6
5	1.1	6.2	5.9	6.0	13	20	25	77	15	5.1	3.8	1.5
6	3.2	6.6	5.9	6.3	11	14	23	65	24	3.9	3.5	1.2
7	4.5	5.6	5.9	10	11	11	22	59	20	2.8	1.5	1.0
8	5.2	7.5	6.8	13	14	8.9	20	59	14	2.3	1.2	0.80
9	5.1	7.4	14	13	14	7.6	20	55	11	2.1	1.0	0.63
10	4.8	6.9	17	13	11	7.6	24	62	9.3	5.4	0.73	0.52
11	6.3	7.3	18	16	13	6.5	22	47	7.9	5.0	0.55	0.44
12	7.4	7.4	26	20	14	5.6	19	40	6.3	3.8	0.39	0.36
13	9.2	7.3	21	19	14	8.8	19	41	57	3.1	0.30	0.33
14	14	6.8	19	15	8.8	21	21	37	135	47	0.25	0.33
15	24	6.9	18	13	8.0	16	22	29	139	54	0.20	0.33
16	19	7.2	16	13	8.5	12	22	25	73	19	0.23	0.33
17	8.2	7.4	13	12	8.9	12	19	23	48	10	0.21	0.30
18	4.6	7.7	14	11	9.2	19	18	39	36	6.8	0.19	0.28
19	3.6	7.7	14	11	8.3	28	24	42	104	5.7	0.18	0.27
20	4.0	7.3	13	12	8.1	96	68	27	90	5.5	0.15	0.24
21	2.8	7.0	11	13	8.2	104	53	22	49	5.3	0.13	0.23
22	2.9	6.7	9.8	13	7.7	63	214	19	36	4.2	0.12	0.27
23	2.8	7.0	9.3	14	7.5	48	125	18	29	3.0	0.11	0.93
24	2.9	7.4	10	15	6.9	40	88	17	24	2.4	0.11	2.0
25	2.9	18	11	17	6.3	34	72	16	21	3.2	0.11	2.0
26	4.3	65	11	18	6.3	33	60	15	19	6.8	0.11	4.2
27	3.9	25	9.2	15	6.4	99	49	119	23	46	0.11	40
28	4.3	15	e8.4	14	7.1	64	240	91	19	39	0.26	41
29	5.3	11	e7.8	13	---	52	233	50	16	16	0.98	24
30	5.0	9.1	e7.2	13	---	45	142	38	13	8.9	1.5	11
31	5.5	---	e6.4	14	---	42	---	29	---	5.5	1.3	---
TOTAL	173.5	311.4	359.4	384.9	291.2	1031.4	1803	1601	1108.5	356.8	28.02	143.09
MEAN	5.60	10.4	11.6	12.4	10.4	33.3	60.1	51.6	37.0	11.5	0.90	4.77
MAX	24	65	26	20	16	104	240	142	139	54	3.8	41
MIN	1.1	5.6	5.9	5.5	6.3	5.6	18	15	6.3	2.1	0.11	0.23
CFSM	0.05	0.08	0.09	0.10	0.08	0.27	0.49	0.42	0.30	0.09	0.01	0.04
IN.	0.05	0.09	0.11	0.12	0.09	0.31	0.55	0.48	0.34	0.11	0.01	0.04

01643700 GOOSE CREEK NEAR MIDDLEBURG, VA--Continued

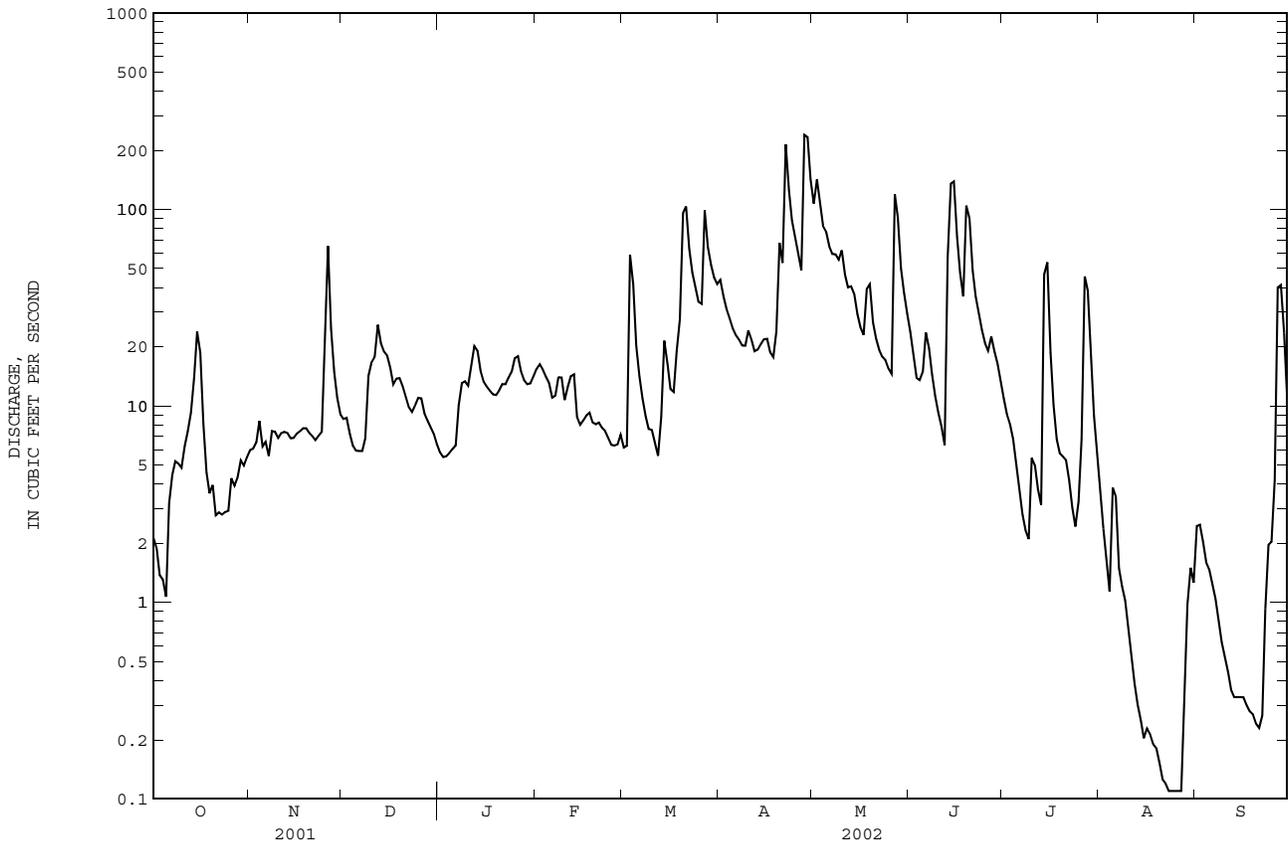
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1967, 1969 - 1996, 2001 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	83.7	88.9	143	164	199	235	219	160	117	53.7	49.0	54.0
MAX	602	233	455	520	609	722	688	463	645	217	206	410
(WY)	1980	1978	1997	1996	1984	1993	1983	1989	1972	1972	1967	1996
MIN	0.004	3.41	4.17	7.65	10.4	33.3	43.5	26.1	15.2	2.81	0.41	0.000
(WY)	1992	1992	1966	1966	2002	2002	1981	1985	1986	1966	1991	1991

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1966 - 1967 1969 - 1996 2001 - 2002

ANNUAL TOTAL		2631.65		7592.21						129		
ANNUAL MEAN		14.1		20.8						272		1997
HIGHEST ANNUAL MEAN										14.1		1969
LOWEST ANNUAL MEAN										e7500		Oct 9 1976
HIGHEST DAILY MEAN			160	Sep 25		240	Apr 28					bSep 21 1985
LOWEST DAILY MEAN			0.51	Sep 19		0.11	aAug 23				0.00	Sep 2 1991
ANNUAL SEVEN-DAY MINIMUM			0.86	Sep 14		0.11	Aug 21				0.00	dSep 20 1985
MAXIMUM PEAK FLOW						533	Apr 28			19200		Jun 22 1972
MAXIMUM PEAK STAGE						4.39	Apr 28			27.46		Jun 22 1972
INSTANTANEOUS LOW FLOW						0.11	cAug 23			0.00		
ANNUAL RUNOFF (CFSM)			0.11			0.17				1.05		
ANNUAL RUNOFF (INCHES)			0.80			2.30				14.20		
10 PERCENT EXCEEDS			27			52				294		
50 PERCENT EXCEEDS			7.7			10				66		
90 PERCENT EXCEEDS			2.1			0.99				5.4		

- a Also Aug. 24-27, 2002.
- b Also Sept. 22-26, 1985, Sept. 29 to Oct. 3, 1986, and many days in September to November 1991.
- c Also Aug. 24-28, 2002.
- d Also Sept. 21-27, 1985, Sept. 29 to Oct. 3, 1986, and many days in September to November 1991.
- e Estimated.



01643700 GOOSE CREEK NEAR MIDDLEBURG, VA

LOCATION.--Lat 38°59'11", long 77°47'48", NAD83, Loudoun County, Hydrologic Unit 02070008, on right bank 250 ft upstream from bridge on State Highway 611, 2.0 mi downstream from Panther Skin Creek, and 3.4 mi northwest of Middleburg.

DRAINAGE AREA.--123 mi².

PERIOD OF RECORD.--October 1965 to September 1967, July 1969 to September 1996, June 2001 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 329.80 ft NGVD of 1929. October 1965 to September 1967, at site 300 ft downstream at datum 0.73 ft lower.

REMARKS.--Records good except those for period of partial gage-height record, Dec. 9, 10, 17, 18, Mar. 30, and period with ice effect, Jan. 17-29, which are fair, and for periods of no gage-height record, Sept. 19, 23-25, which are poor. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 22	2045	1,670	7.50	Jun 19	0530	3,460	11.31
Mar 20	2030	2,580	9.54	Jun 20	1645	1,490	7.08
May 16	0545	2,390	9.15	Aug 4	2315	2,100	8.50
Jun 11	2400	1,550	7.21	Sep 4	0045	3,540	11.47
Jun 12	2230	2,390	9.15	Sep 19	---	unknown	unknown
Jun 13	2300	2,300	8.95	Sep 23	---	*23,000	*24.36

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	102	67	429	e75	261	385	143	247	164	104	100
2	4.3	79	60	745	e72	391	357	132	216	158	101	116
3	3.0	65	58	637	e70	546	325	123	221	465	88	293
4	2.0	57	51	471	e69	384	293	117	485	238	324	1,460
5	1.5	52	55	349	e80	428	275	122	437	167	611	405
6	1.9	127	68	296	e72	757	242	130	311	144	197	249
7	1.9	88	63	242	e65	664	362	128	416	138	154	195
8	1.9	70	58	233	e60	642	336	158	398	130	145	165
9	1.7	63	e52	231	e58	865	529	165	394	294	123	149
10	2.2	57	e54	184	e57	687	500	275	295	327	167	129
11	16	68	164	159	e56	560	617	295	371	196	311	115
12	68	116	252	139	e55	474	493	223	979	151	141	113
13	30	166	336	132	e55	444	393	189	1,380	127	147	306
14	19	112	641	126	e55	555	334	165	1,160	117	119	211
15	15	93	452	117	e56	444	295	162	702	112	101	182
16	106	96	310	109	e58	385	268	1,910	544	103	91	168
17	137	407	e230	e100	e60	354	241	967	515	92	140	136
18	66	453	e190	e98	e62	316	227	880	596	86	102	229
19	44	236	165	e96	e75	271	316	681	2,090	88	86	e2,200
20	35	178	197	e94	e70	1,050	239	536	1,130	79	79	761
21	29	158	167	e96	e60	1,020	216	491	808	75	72	505
22	24	164	141	e92	750	750	221	434	689	74	70	375
23	21	120	127	e90	1,010	562	193	373	497	155	77	e14,000
24	19	106	117	e88	676	451	173	437	375	178	60	e1,500
25	18	97	158	e86	520	374	168	524	302	90	54	e700
26	54	89	147	e84	390	342	193	504	258	76	52	543
27	50	86	125	e80	322	328	170	404	227	70	88	440
28	36	76	115	e80	288	271	151	384	201	79	231	397
29	48	73	114	e82	---	274	143	334	185	136	301	310
30	211	71	111	e80	---	e380	137	297	168	81	291	262
31	158	---	109	e77	---	401	---	267	---	70	116	---
TOTAL	1,230.5	3,725	4,954	5,922	5,296	15,631	8,792	11,950	16,597	4,460	4,743	26,714
MEAN	39.7	124	160	191	189	504	293	385	553	144	153	890
MAX	211	453	641	745	1,010	1,050	617	1,910	2,090	465	611	14,000
MIN	1.5	52	51	77	55	261	137	117	168	70	52	100
CFSM	0.32	1.01	1.30	1.55	1.54	4.10	2.38	3.13	4.50	1.17	1.24	7.24
IN.	0.37	1.13	1.50	1.79	1.60	4.73	2.66	3.61	5.02	1.35	1.43	8.08

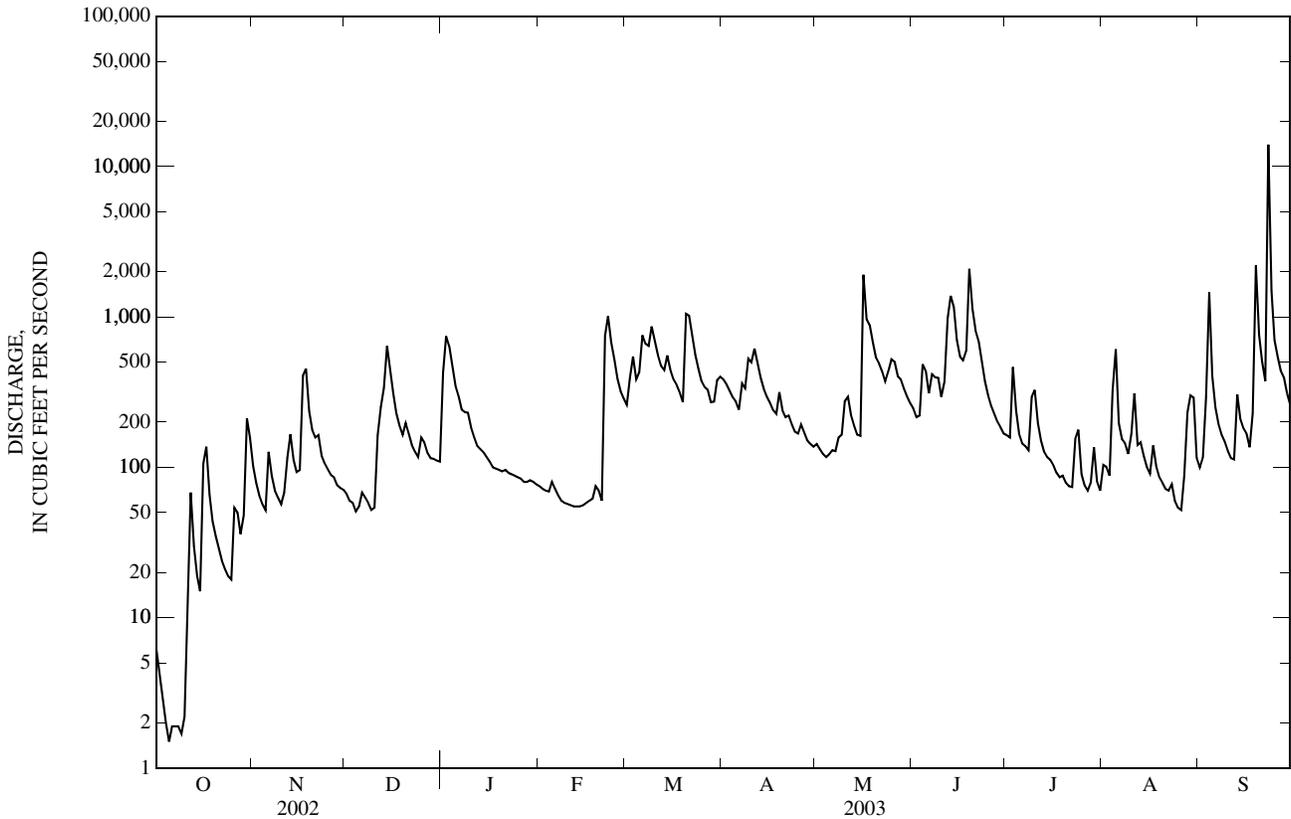
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1967, 1969 - 1996, 2001 - 2003, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
	82.3	602	0.004	(1980)	90.1	233	3.41	(1978)	144	455	4.17	(1997)
					165	520	7.65	(1996)	198	609	10.4	(1984)
					243	722	33.3	(1993)	221	688	43.5	(1983)
					167	463	26.1	(1989)	131	645	15.2	(1972)
					56.4	217	2.81	(1972)	52.1	206	0.41	(1967)
					79.3	890	0.000	(2003)				(1991)

01643700 GOOSE CREEK NEAR MIDDLEBURG, VA—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS	
					1966 - 1967	1969 - 1996
ANNUAL TOTAL	16,657.41		110,014.5		134	
ANNUAL MEAN	45.6		301		301	2003
HIGHEST ANNUAL MEAN					20.8	2002
LOWEST ANNUAL MEAN					14,000	Sep 23, 2003
HIGHEST DAILY MEAN	641	Dec 14	14,000	Sep 23	14,000	Sep 23, 2003
LOWEST DAILY MEAN	0.11	aAug 23	1.5	Oct 5	0.00	(b)
ANNUAL SEVEN-DAY MINIMUM	0.11	Aug 21	1.9	Oct 4	0.00	(b)
MAXIMUM PEAK FLOW			23,000	Sep 23	23,000	Sep 23, 2003
MAXIMUM PEAK STAGE			c24.36	Sep 23	27.46	Jun 22, 1972
INSTANTANEOUS LOW FLOW			1.2	dOct 4	0.00	(f)
ANNUAL RUNOFF (CFSM)	0.37		2.45		1.09	
ANNUAL RUNOFF (INCHES)	5.04		33.27		14.85	
10 PERCENT EXCEEDS	119		561		308	
50 PERCENT EXCEEDS	18		164		70	
90 PERCENT EXCEEDS	0.99		56		5.9	

- a Also Aug. 24-27, 2002.
- b No flow many days in September 1985, September, October 1986, and September to November 1991.
- c From floodmarks.
- d Also Oct. 5, 2002.
- e Estimated.
- f No flow part or all of many days in September 1985, September, October 1986, and September to November 1991.



01643700 GOOSE CREEK NEAR MIDDLEBURG, VA

LOCATION.--Lat 38°59'11", long 77°47'48", NAD83, Loudoun County, Hydrologic Unit 02070008, on right bank 250 ft upstream from bridge on State Highway 611, 2.0 mi downstream from Panther Skin Creek, and 3.4 mi northwest of Middleburg.

DRAINAGE AREA.--123 mi².

PERIOD OF RECORD.--October 1965 to September 1967, July 1969 to September 1996, June 2001 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 329.80 ft NGVD of 1929. October 1965 to September 1967, at site 300 ft downstream at datum 0.73 ft lower.

REMARKS.--Records good except those for periods of doubtful, partial, or no gage-height record, Oct. 15, Nov. 9, 10, 25, 26, Dec. 2-4, 6-9, 12-18, May 13, 14, and Sept. 28, 29, which are fair, and for period of no gage-height record, Jan. 17 to Feb. 17, which is poor. Maximum discharge, 23,000 ft³/s, from rating curve extended above 3,000 ft³/s on basis of slope-area measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 19	2015	3,150	8.86	May 3	0315	3,150	8.86
Dec 11	0745	*10,200	*15.85	Jun 5	1030	1,810	6.93
Apr 13	2400	1,610	6.60	Sep 28	---	unknown	unknown

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	150	272	186	e65	119	164	162	79	43	30	7.8
2	210	138	235	189	e63	121	370	264	65	42	68	6.4
3	194	131	208	177	e107	116	575	1,450	58	38	37	5.7
4	188	122	195	168	e289	119	411	500	56	113	30	6.0
5	176	136	221	169	e236	118	306	352	786	86	32	5.7
6	164	183	e205	158	e1,150	291	251	280	302	57	26	5.7
7	155	167	187	136	e1,660	234	220	263	193	51	21	9.5
8	149	139	173	133	e689	231	197	469	150	91	18	47
9	141	126	168	131	e335	195	182	252	125	49	16	185
10	136	119	188	128	e327	178	163	245	107	42	15	53
11	130	118	5,190	138	e518	166	151	200	115	40	24	32
12	128	140	e930	131	e326	153	253	174	419	59	34	25
13	121	161	e580	120	e286	138	977	155	182	88	41	21
14	127	126	e460	113	e274	131	877	145	149	59	30	19
15	e290	121	e480	110	e228	127	513	143	130	51	26	23
16	142	118	e400	105	e188	134	370	157	120	39	22	28
17	125	117	e550	e99	e166	141	296	179	107	35	18	42
18	124	112	e470	e111	159	126	251	133	172	34	16	473
19	114	983	362	e102	159	139	219	132	132	37	16	138
20	107	789	314	e90	171	120	194	142	97	43	17	82
21	106	424	274	e84	182	116	207	128	84	31	16	63
22	101	320	257	e82	170	107	172	129	83	28	18	52
23	95	264	253	e80	159	103	166	107	83	28	16	44
24	92	256	370	e78	159	101	190	96	78	67	12	39
25	89	401	358	e71	154	102	149	88	67	36	10	36
26	88	263	306	e69	139	97	293	94	66	36	8.8	33
27	183	239	272	e68	134	96	334	88	57	38	8.1	32
28	201	321	249	e68	126	95	242	83	53	67	8.7	e1,680
29	286	433	231	e67	122	90	205	74	49	48	9.6	e3,010
30	205	303	219	e66	---	88	179	67	45	32	9.2	369
31	167	---	197	e66	---	101	---	71	---	27	8.4	---
TOTAL	4,759	7,420	14,774	3,493	8,741	4,193	9,077	6,822	4,209	1,535	661.8	6,572.8
MEAN	154	247	477	113	301	135	303	220	140	49.5	21.3	219
MAX	290	983	5,190	189	1,660	291	977	1,450	786	113	68	3,010
MIN	88	112	168	66	63	88	149	67	45	27	8.1	5.7
CFSM	1.25	2.01	3.87	0.92	2.45	1.10	2.46	1.79	1.14	0.40	0.17	1.78
IN.	1.44	2.24	4.47	1.06	2.64	1.27	2.75	2.06	1.27	0.46	0.20	1.99

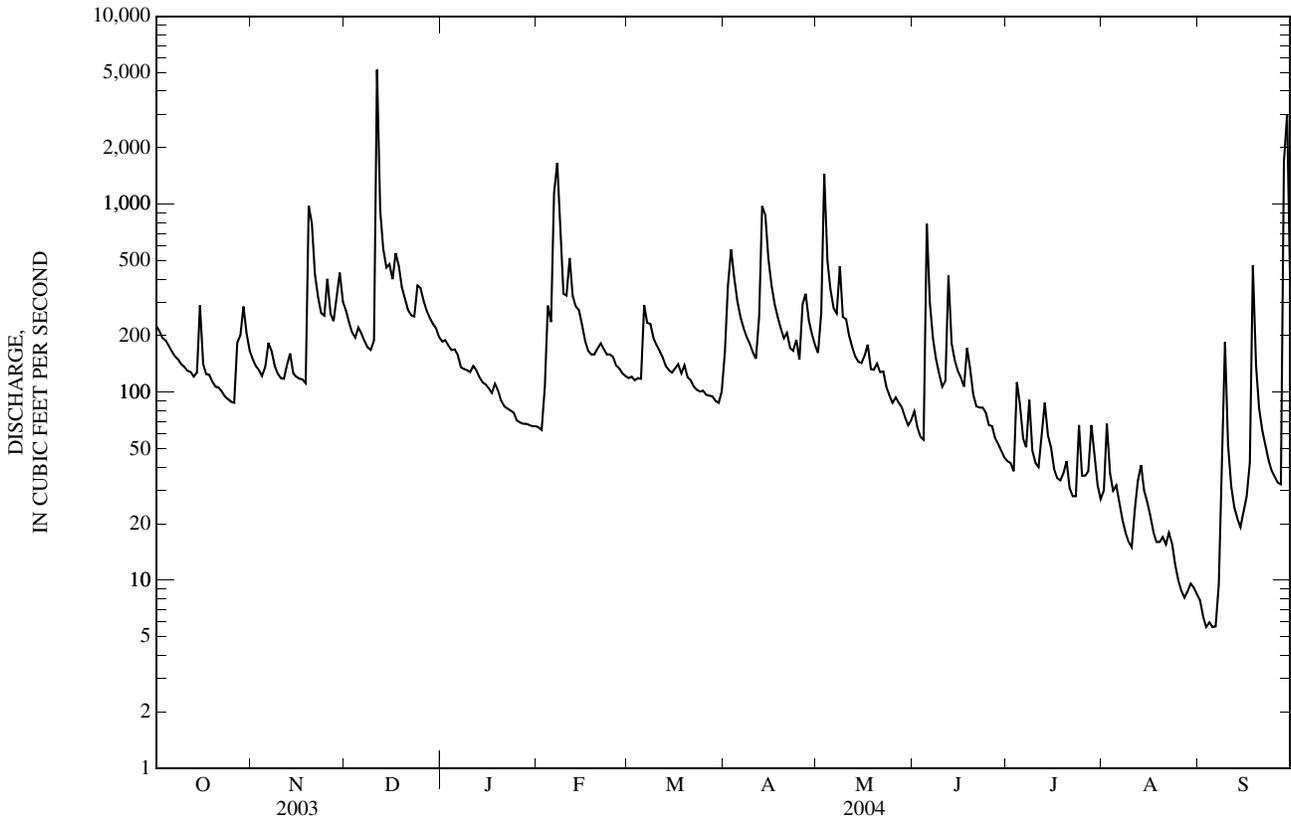
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1967, 1969 - 1996, 2001 - 2004, BY WATER YEAR (WY)

MEAN	84.5	94.8	154	163	202	240	224	169	131	56.2	51.2	83.4
MAX	602	247	477	520	609	722	688	463	645	217	206	890
(WY)	(1980)	(2004)	(2004)	(1996)	(1984)	(1993)	(1983)	(1989)	(1972)	(1972)	(1967)	(2003)
MIN	0.00	3.41	4.17	7.65	10.4	33.3	43.5	26.1	15.2	2.81	0.41	0.00
(WY)	(1992)	(1992)	(1966)	(1966)	(2002)	(2002)	(1981)	(1985)	(1986)	(1966)	(1991)	(1991)

01643700 GOOSE CREEK NEAR MIDDLEBURG, VA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS	
					1966 - 1967	1969 - 1996
ANNUAL TOTAL	127,058		72,257.6		136	
ANNUAL MEAN	348		197		301	
HIGHEST ANNUAL MEAN					20.8	
LOWEST ANNUAL MEAN					2003	
HIGHEST DAILY MEAN	14,000	Sep 23	5,190	Dec 11	e14,000	Sep 23, 2003
LOWEST DAILY MEAN	52	Aug 26	5.7	aSep 3	0.00	(b)
ANNUAL SEVEN-DAY MINIMUM	56	Feb 9	6.5	Aug 31	0.00	(b)
MAXIMUM PEAK FLOW			10,200	Dec 11	23,000	Sep 23, 2003
MAXIMUM PEAK STAGE			15.85	Dec 11	27.46	Jun 22, 1972
INSTANTANEOUS LOW FLOW			5.3	cSep 2	0.00	(d)
ANNUAL RUNOFF (CFSM)	2.83		1.61		1.11	
ANNUAL RUNOFF (INCHES)	38.43		21.85		15.07	
10 PERCENT EXCEEDS	613		354		309	
50 PERCENT EXCEEDS	210		130		72	
90 PERCENT EXCEEDS	80		28		6.0	

- a Also Sept. 5, 6, 2004.
- b No flow many days in September 1985, September and October 1986, and September to November 1991.
- c Also Sept. 3-6, 2004.
- d No flow part or all of many days in September 1985, September and October 1986, and September to November 1991.
- e Estimated.



POTOMAC RIVER BASIN

01643805 NORTH FORK GOOSE CREEK AT ROUTE 729 NEAR LINCOLN, VA

LOCATION.--Lat 39°04'20", long 77°41'02", NAD83, Loudoun County, Hydrologic Unit Code 02070008, on left bank, 5 ft downstream from bridge on State Highway 729, 5 mi south of Lincoln.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--July 2001 to September 2002.

GAGE.--Water stage recorder. Datum of gage is 300 ft NGVD of 1929, from topographic map..

REMARKS.--Records good except those for period of no gage-height record, Aug. 20 to Sept. 6, 2001, and discharges above 200 ft³/s, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	10	e4.9
2	---	---	---	---	---	---	---	---	---	---	8.1	e4.0
3	---	---	---	---	---	---	---	---	---	---	6.5	e4.0
4	---	---	---	---	---	---	---	---	---	---	8.3	e3.4
5	---	---	---	---	---	---	---	---	---	---	6.6	e3.4
6	---	---	---	---	---	---	---	---	---	---	5.6	e3.3
7	---	---	---	---	---	---	---	---	---	---	5.0	2.9
8	---	---	---	---	---	---	---	---	---	---	4.6	2.7
9	---	---	---	---	---	---	---	---	---	---	4.4	2.8
10	---	---	---	---	---	---	---	---	---	---	4.0	4.6
11	---	---	---	---	---	---	---	---	---	---	174	6.6
12	---	---	---	---	---	---	---	---	---	---	103	3.2
13	---	---	---	---	---	---	---	---	---	---	41	2.6
14	---	---	---	---	---	---	---	---	---	---	23	2.8
15	---	---	---	---	---	---	---	---	---	---	15	2.8
16	---	---	---	---	---	---	---	---	---	---	11	2.6
17	---	---	---	---	---	---	---	---	---	---	9.6	2.6
18	---	---	---	---	---	---	---	---	---	---	8.5	2.7
19	---	---	---	---	---	---	---	---	---	13	8.0	2.5
20	---	---	---	---	---	---	---	---	---	10	e13	5.5
21	---	---	---	---	---	---	---	---	---	8.2	e11	16
22	---	---	---	---	---	---	---	---	---	6.8	e8.5	4.1
23	---	---	---	---	---	---	---	---	---	6.2	e11	3.1
24	---	---	---	---	---	---	---	---	---	5.8	e18	322
25	---	---	---	---	---	---	---	---	---	6.1	e12	130
26	---	---	---	---	---	---	---	---	---	5.7	e8.5	30
27	---	---	---	---	---	---	---	---	---	6.2	e6.7	18
28	---	---	---	---	---	---	---	---	---	5.3	e6.2	13
29	---	---	---	---	---	---	---	---	---	12	e5.3	9.7
30	---	---	---	---	---	---	---	---	---	17	e5.3	7.5
31	---	---	---	---	---	---	---	---	---	12	e6.2	---
TOTAL	---	---	---	---	---	---	---	---	---	114.3	567.9	623.3
MEAN	---	---	---	---	---	---	---	---	---	8.79	18.3	20.8
MAX	---	---	---	---	---	---	---	---	---	17	174	322
MIN	---	---	---	---	---	---	---	---	---	5.3	4.0	2.5

01643805 NORTH FORK GOOSE CREEK AT ROUTE 729 NEAR LINCOLN, VA--Continued

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

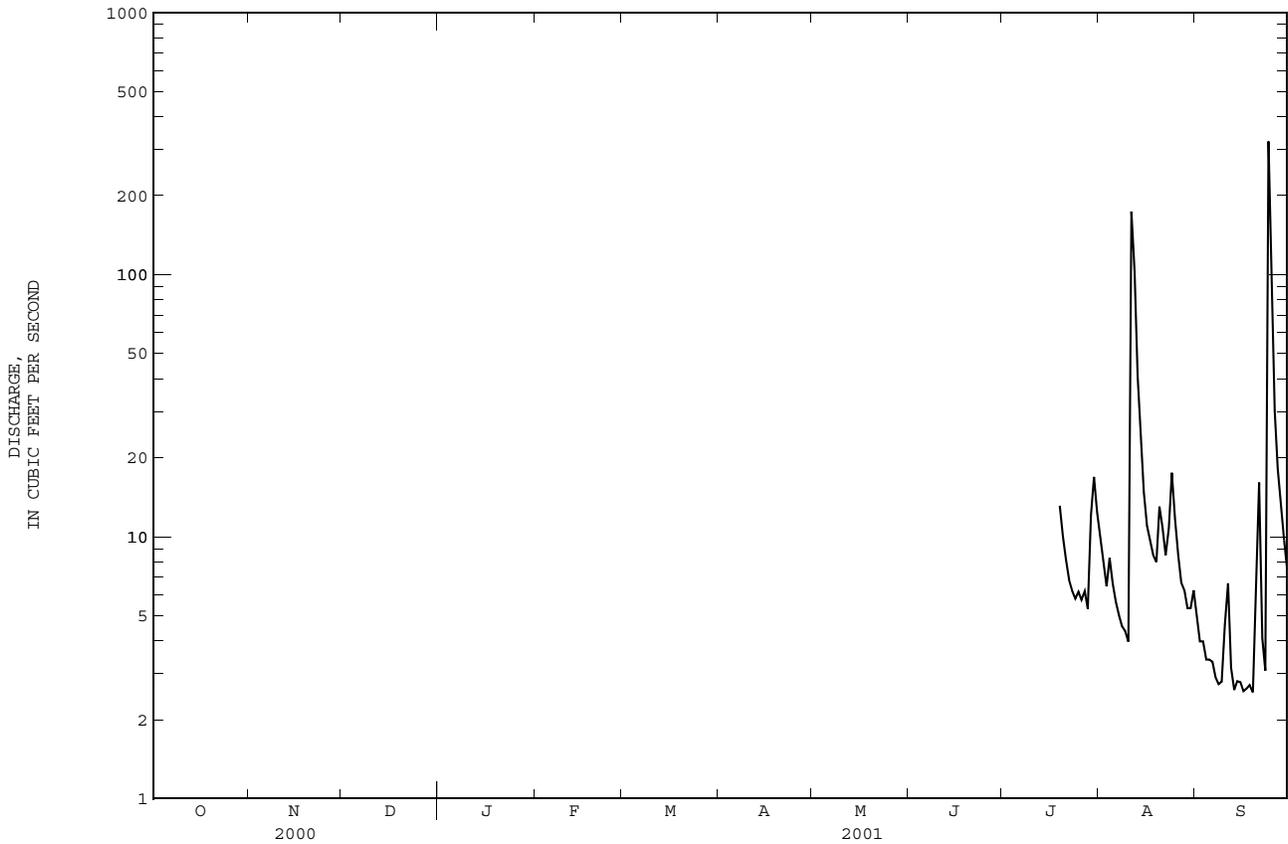
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	---	---	---	---	---	---	8.79	18.3	20.8
MAX	---	---	---	---	---	---	---	---	---	8.79	18.3	20.8
(WY)	---	---	---	---	---	---	---	---	---	2001	2001	2001
MIN	---	---	---	---	---	---	---	---	---	8.79	18.3	20.8
(WY)	---	---	---	---	---	---	---	---	---	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

ANNUAL TOTAL	1305.5
ANNUAL MEAN	17.6
HIGHEST DAILY MEAN	322 Sep 24
LOWEST DAILY MEAN	2.5 Sep 19
ANNUAL SEVEN-DAY MINIMUM	2.7 Sep 13
MAXIMUM PEAK FLOW	1610 Sep 24
MAXIMUM PEAK STAGE	9.97 Sep 24
INSTANTANEOUS LOW FLOW	2.4 aSep 13
10 PERCENT EXCEEDS	20
50 PERCENT EXCEEDS	6.6
90 PERCENT EXCEEDS	2.8

a Also Sept. 14, 16-20, 24, 2001.
 e Estimated.



POTOMAC RIVER BASIN

01643805 NORTH FORK GOOSE CREEK AT ROUTE 729 NEAR LINCOLN, VA--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	5.4	7.7	4.4	14	5.4	31	35	30	7.9	4.6	4.7
2	5.6	5.5	6.5	4.8	15	5.8	26	49	24	7.7	3.8	5.3
3	5.0	5.6	5.9	5.3	11	32	23	36	20	7.1	3.4	3.8
4	4.5	4.9	5.6	5.3	10	18	21	28	19	6.5	2.9	2.8
5	4.1	4.5	5.6	5.1	12	12	18	27	21	5.8	3.0	2.2
6	4.3	4.1	5.8	6.2	7.3	10	17	23	27	5.0	13	2.0
7	5.1	4.3	6.5	11	9.4	9.0	16	22	26	4.6	4.9	1.8
8	5.0	4.4	9.4	11	11	8.4	15	23	19	4.9	2.8	1.7
9	5.2	4.3	15	9.1	9.3	8.3	15	21	16	5.6	2.3	1.6
10	5.2	4.1	10	8.1	9.3	9.5	17	22	15	8.1	1.8	1.6
11	5.6	4.3	15	12	12	8.4	14	17	13	5.9	1.6	2.2
12	5.8	4.2	13	12	10	6.6	13	16	13	4.8	1.6	3.3
13	5.8	4.1	13	9.7	8.2	15	14	16	23	5.1	1.5	3.7
14	7.9	4.0	13	8.5	7.6	18	14	15	55	74	1.5	4.4
15	20	4.3	13	7.7	6.7	14	17	14	152	28	1.5	5.7
16	8.6	4.3	11	7.7	7.4	13	15	12	47	15	1.6	6.7
17	9.4	4.7	10	7.3	7.8	13	13	12	30	10	1.7	6.6
18	6.3	4.2	13	6.1	7.6	20	12	29	24	8.0	1.6	5.8
19	5.2	4.2	12	6.6	5.8	19	20	20	35	7.1	1.3	5.7
20	5.1	4.3	9.6	8.3	5.7	109	21	15	28	6.4	1.5	5.8
21	4.9	4.1	9.4	8.0	6.4	74	16	12	21	5.5	1.8	7.0
22	5.2	3.9	7.7	8.8	6.3	49	34	11	17	4.8	1.4	20
23	5.5	3.8	6.8	8.9	5.8	39	24	10	15	4.7	1.2	48
24	5.8	4.6	9.3	11	4.9	33	19	9.7	13	9.6	1.6	9.1
25	5.4	37	8.5	14	4.9	30	18	9.3	12	6.5	1.9	5.0
26	5.1	30	7.7	12	5.6	33	16	180	11	20	1.6	18
27	5.4	15	7.0	11	6.3	57	14	389	12	19	1.9	56
28	5.6	11	6.3	10	6.0	39	93	110	11	16	4.8	34
29	5.5	9.2	6.1	9.3	---	33	72	62	10	11	14	15
30	5.5	8.4	5.8	9.4	---	29	46	45	8.3	7.2	5.6	11
31	5.3	---	5.1	14	---	30	---	36	---	5.5	3.4	---
TOTAL	189.0	216.7	280.3	272.6	233.3	800.4	704	1326.0	767.3	337.3	97.1	300.5
MEAN	6.10	7.22	9.04	8.79	8.33	25.8	23.5	42.8	25.6	10.9	3.13	10.0
MAX	20	37	15	14	15	109	93	389	152	74	14	56
MIN	4.1	3.8	5.1	4.4	4.9	5.4	12	9.3	8.3	4.6	1.2	1.6

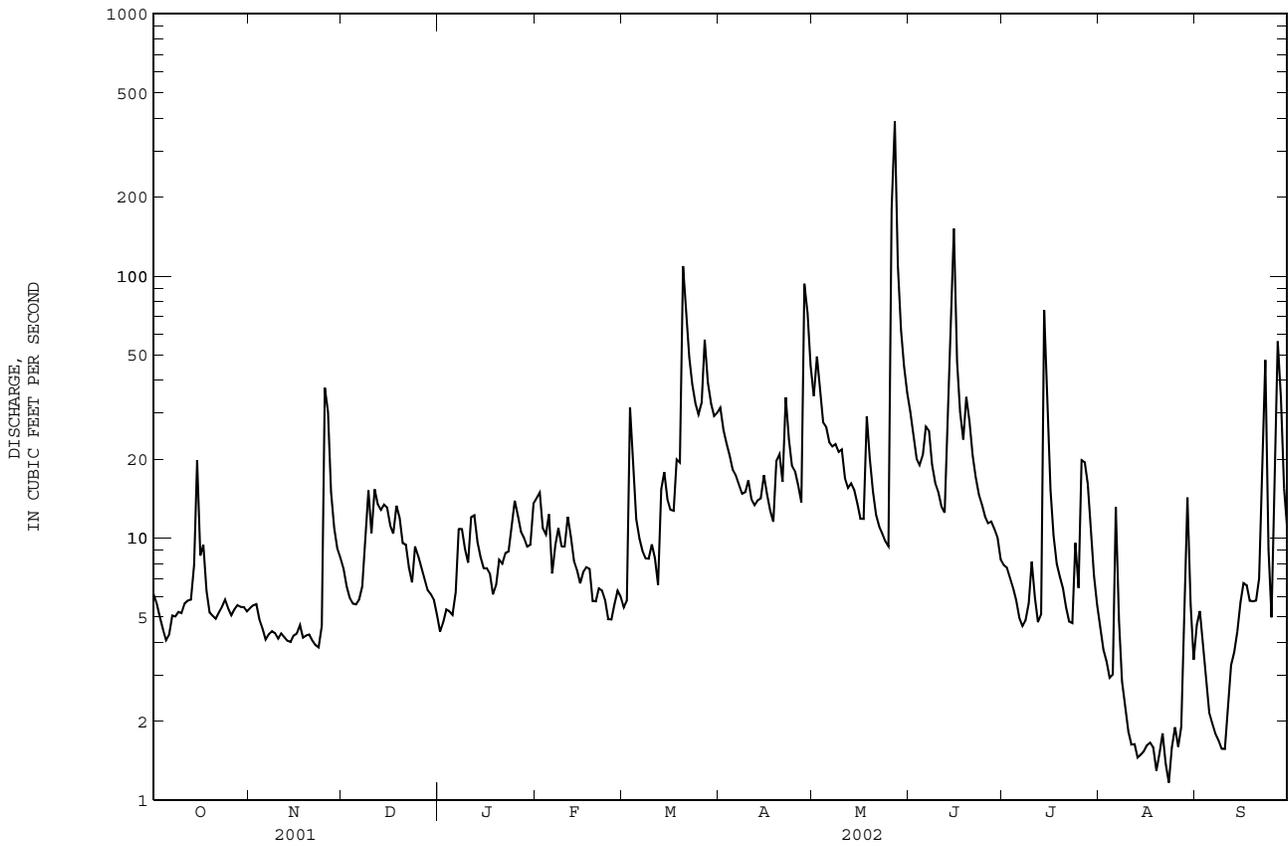
01643805 NORTH FORK GOOSE CREEK AT ROUTE 729 NEAR LINCOLN, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.10	7.22	9.04	8.79	8.33	25.8	23.5	42.8	25.6	10.3	10.7	15.4
MAX	6.10	7.22	9.04	8.79	8.33	25.8	23.5	42.8	25.6	10.9	18.3	20.8
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001	2001
MIN	6.10	7.22	9.04	8.79	8.33	25.8	23.5	42.8	25.6	8.79	3.13	10.0
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 2001 - 2002	
ANNUAL TOTAL	1991.5		5524.5			
ANNUAL MEAN	12.0		15.1		15.6	
HIGHEST ANNUAL MEAN					17.6	
LOWEST ANNUAL MEAN					15.1	
HIGHEST DAILY MEAN	322 Sep 24		389 May 27		389 May 27 2002	
LOWEST DAILY MEAN	2.5 Sep 19		1.2 Aug 23		1.2 Aug 23 2002	
ANNUAL SEVEN-DAY MINIMUM	2.7 Sep 13		1.5 Aug 18		1.5 Aug 18 2002	
MAXIMUM PEAK FLOW			1120 May 26		1610 Sep 24 2001	
MAXIMUM PEAK STAGE			8.16 May 26		9.97 Sep 24 2001	
INSTANTANEOUS LOW FLOW			0.85 aAug 20		0.85 aAug 20 2002	
10 PERCENT EXCEEDS	15		30		30	
50 PERCENT EXCEEDS	5.8		8.8		8.3	
90 PERCENT EXCEEDS	3.9		3.8		3.3	

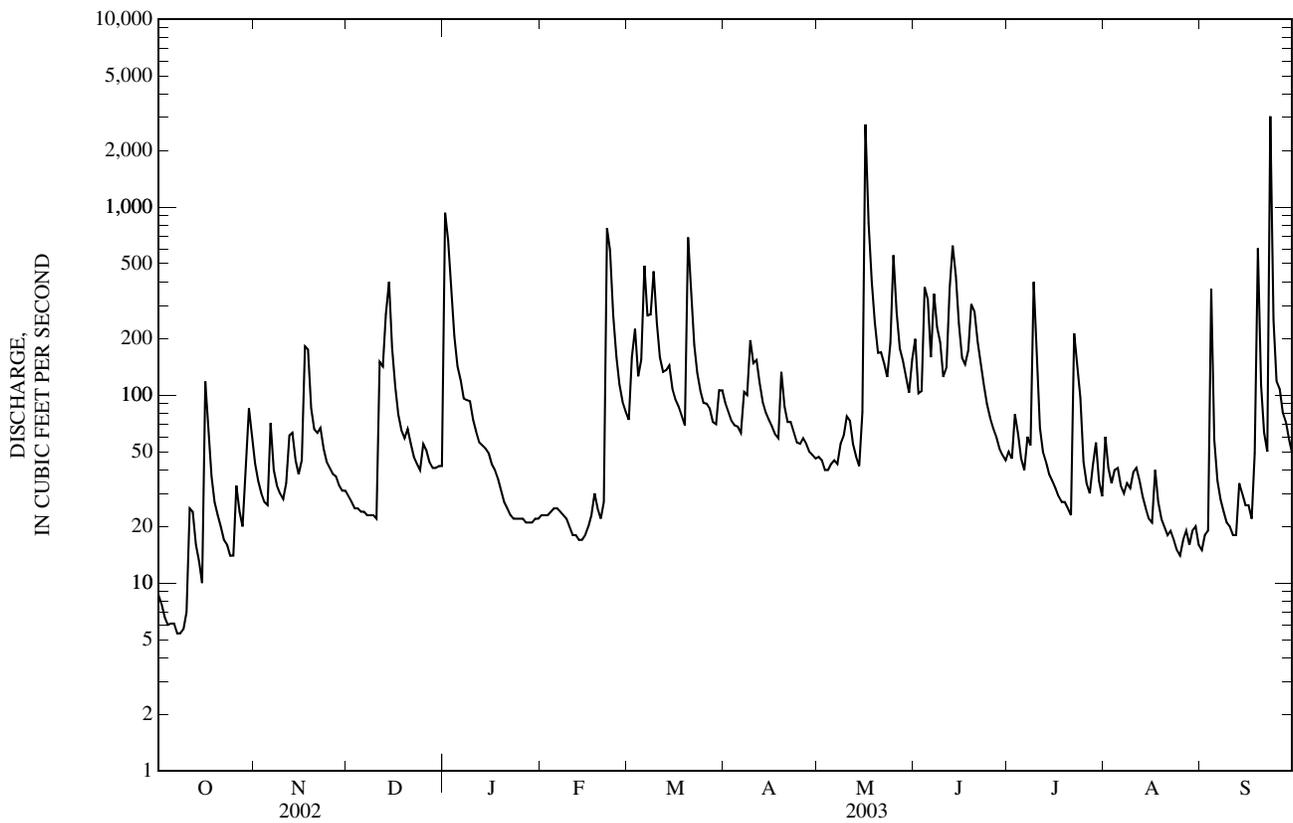
a Also Aug. 23, 2002.



01643805 NORTH FORK GOOSE CREEK AT ROUTE 729 NEAR LINCOLN, VA—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	9,468.2		40,445.7		63.0	
ANNUAL MEAN	25.9		111		111	
HIGHEST ANNUAL MEAN					15.1	2003
LOWEST ANNUAL MEAN					1.2	2002
HIGHEST DAILY MEAN	401	Dec 14	3,040	Sep 23	3,040	Sep 23, 2003
LOWEST DAILY MEAN	1.2	Aug 23	5.4	aOct 7	1.2	Aug 23, 2002
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 18	5.9	Oct 3	1.5	Aug 18, 2002
MAXIMUM PEAK FLOW			13,500	Sep 23	13,500	Sep 23, 2003
MAXIMUM PEAK STAGE			b13.45	Sep 23	b13.45	Sep 23, 2003
INSTANTANEOUS LOW FLOW			4.8	Oct 8	0.85	cAug 20, 2002
ANNUAL RUNOFF (CFSM)	0.68		2.90		1.65	
ANNUAL RUNOFF (INCHES)	9.22		39.39		22.40	
10 PERCENT EXCEEDS	55		227		142	
50 PERCENT EXCEEDS	14		50		22	
90 PERCENT EXCEEDS	4.2		19		4.9	

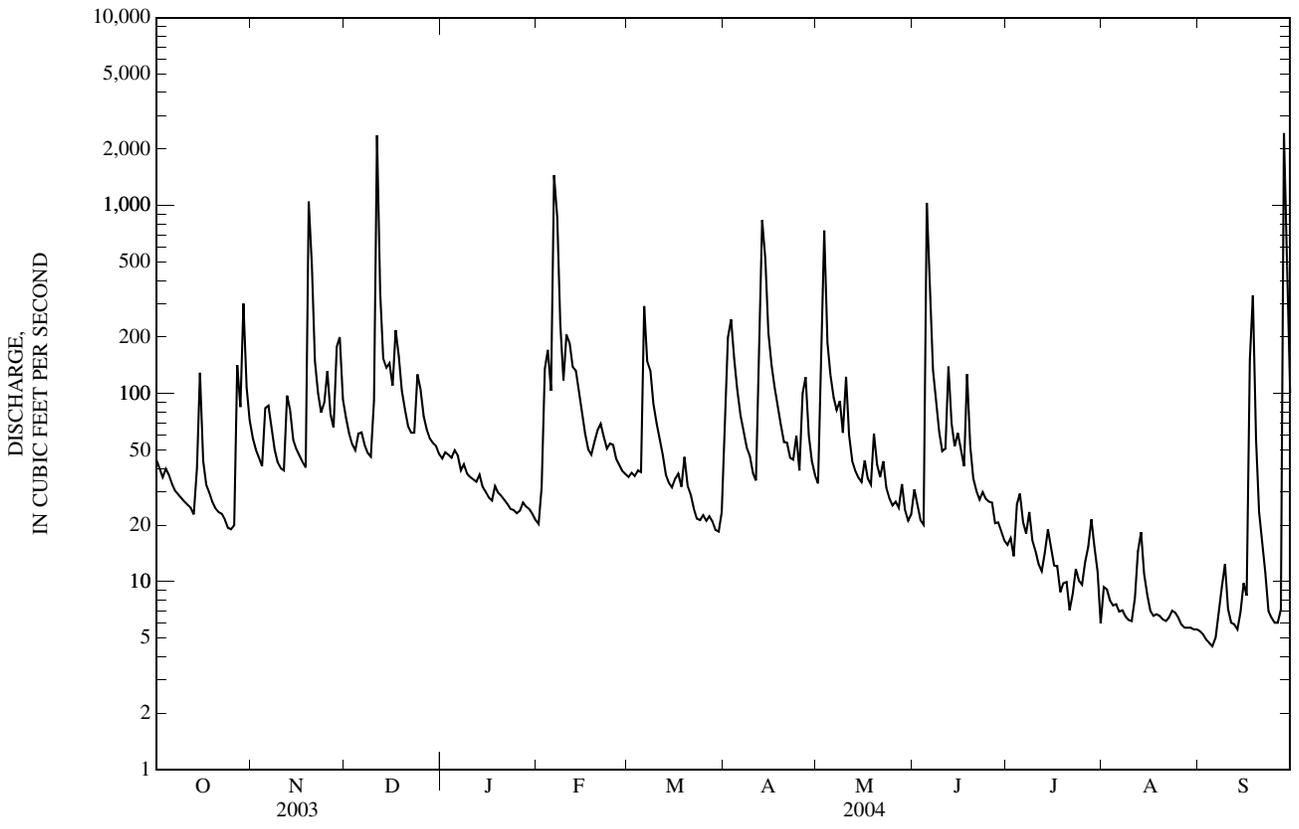
- a Also Oct. 8, 2002.
- b From Floodmarks.
- c Also Aug. 23, 2002.
- e Estimated.



01643805 NORTH FORK GOOSE CREEK AT ROUTE 729 NEAR LINCOLN, VA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	46,307		31,315.4		70.5	
ANNUAL MEAN	127		85.6		111 2003	
HIGHEST ANNUAL MEAN					15.1 2002	
LOWEST ANNUAL MEAN					3,040 Sep 23, 2003	
HIGHEST DAILY MEAN	3,040	Sep 23	2,430	Sep 28	3,040	Sep 23, 2003
LOWEST DAILY MEAN	14	Aug 25	e4.5	Sep 5	1.2	Aug 23, 2002
ANNUAL SEVEN-DAY MINIMUM	17	Aug 22	e5.1	Aug 31	1.5	Aug 18, 2002
MAXIMUM PEAK FLOW			10,200	Sep 28	13,500	Sep 23, 2003
MAXIMUM PEAK STAGE			12.80	Sep 28	a13.45	Sep 23, 2003
INSTANTANEOUS LOW FLOW			(b)	(c)	0.85	dAug 20, 2002
ANNUAL RUNOFF (CFSM)	3.32		2.24		1.85	
ANNUAL RUNOFF (INCHES)	45.09		30.50		25.08	
10 PERCENT EXCEEDS	243		143		142	
50 PERCENT EXCEEDS	60		38		27	
90 PERCENT EXCEEDS	22		7.0		5.5	

- a From floodmarks.
- b Not determined.
- c Probably occurred Sept. 5, 2004.
- d Also Aug. 23, 2002.
- e Estimated.



POTOMAC RIVER BASIN

01643880 BEAVERDAM CREEK AT ROUTE 734 NEAR MOUNTVILLE, VA

LOCATION.--Lat 39°02'16", long 77°43'20", NAD83, Loudoun County, Hydrologic Unit 02070008, on left bank 250 ft downstream from State Highway 743 and 2.0 mi northwest of Mountville.

DRAINAGE AREA.--Not determined.

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

GAGE.--Water stage recorder. Elevation of gage is 315 ft NVGD of 1929, from topographic map.

REMARKS.--Records good except for period with ice effect, Jan. 3, 4, 2002, which is fair.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	3.3	1.4
2	---	---	---	---	---	---	---	---	---	---	2.1	1.1
3	---	---	---	---	---	---	---	---	---	---	1.6	0.93
4	---	---	---	---	---	---	---	---	---	---	2.0	0.85
5	---	---	---	---	---	---	---	---	---	---	1.7	0.84
6	---	---	---	---	---	---	---	---	---	---	1.4	0.76
7	---	---	---	---	---	---	---	---	---	---	1.2	0.86
8	---	---	---	---	---	---	---	---	---	---	1.1	0.82
9	---	---	---	---	---	---	---	---	---	---	1.0	0.80
10	---	---	---	---	---	---	---	---	---	---	0.88	0.80
11	---	---	---	---	---	---	---	---	---	---	38	0.90
12	---	---	---	---	---	---	---	---	---	---	106	1.5
13	---	---	---	---	---	---	---	---	---	---	31	1.9
14	---	---	---	---	---	---	---	---	---	---	18	1.7
15	---	---	---	---	---	---	---	---	---	---	8.7	1.4
16	---	---	---	---	---	---	---	---	---	---	5.0	1.3
17	---	---	---	---	---	---	---	---	---	---	3.6	1.0
18	---	---	---	---	---	---	---	---	---	3.5	3.0	0.80
19	---	---	---	---	---	---	---	---	---	5.9	2.7	0.66
20	---	---	---	---	---	---	---	---	---	3.8	4.9	1.6
21	---	---	---	---	---	---	---	---	---	2.6	3.2	0.79
22	---	---	---	---	---	---	---	---	---	2.1	1.8	0.58
23	---	---	---	---	---	---	---	---	---	1.8	4.9	0.51
24	---	---	---	---	---	---	---	---	---	1.5	13	74
25	---	---	---	---	---	---	---	---	---	1.3	4.4	49
26	---	---	---	---	---	---	---	---	---	1.2	2.6	13
27	---	---	---	---	---	---	---	---	---	1.2	1.8	5.1
28	---	---	---	---	---	---	---	---	---	1.0	1.5	2.8
29	---	---	---	---	---	---	---	---	---	3.2	1.3	1.9
30	---	---	---	---	---	---	---	---	---	8.8	1.7	1.4
31	---	---	---	---	---	---	---	---	---	5.2	1.9	---
TOTAL	---	---	---	---	---	---	---	---	---	43.1	275.28	171.00
MEAN	---	---	---	---	---	---	---	---	---	3.08	8.88	5.70
MAX	---	---	---	---	---	---	---	---	---	8.8	106	74
MIN	---	---	---	---	---	---	---	---	---	1.0	0.88	0.51

01643880 BEAVERDAM CREEK AT ROUTE 734 NEAR MOUNTVILLE, VA--Continued

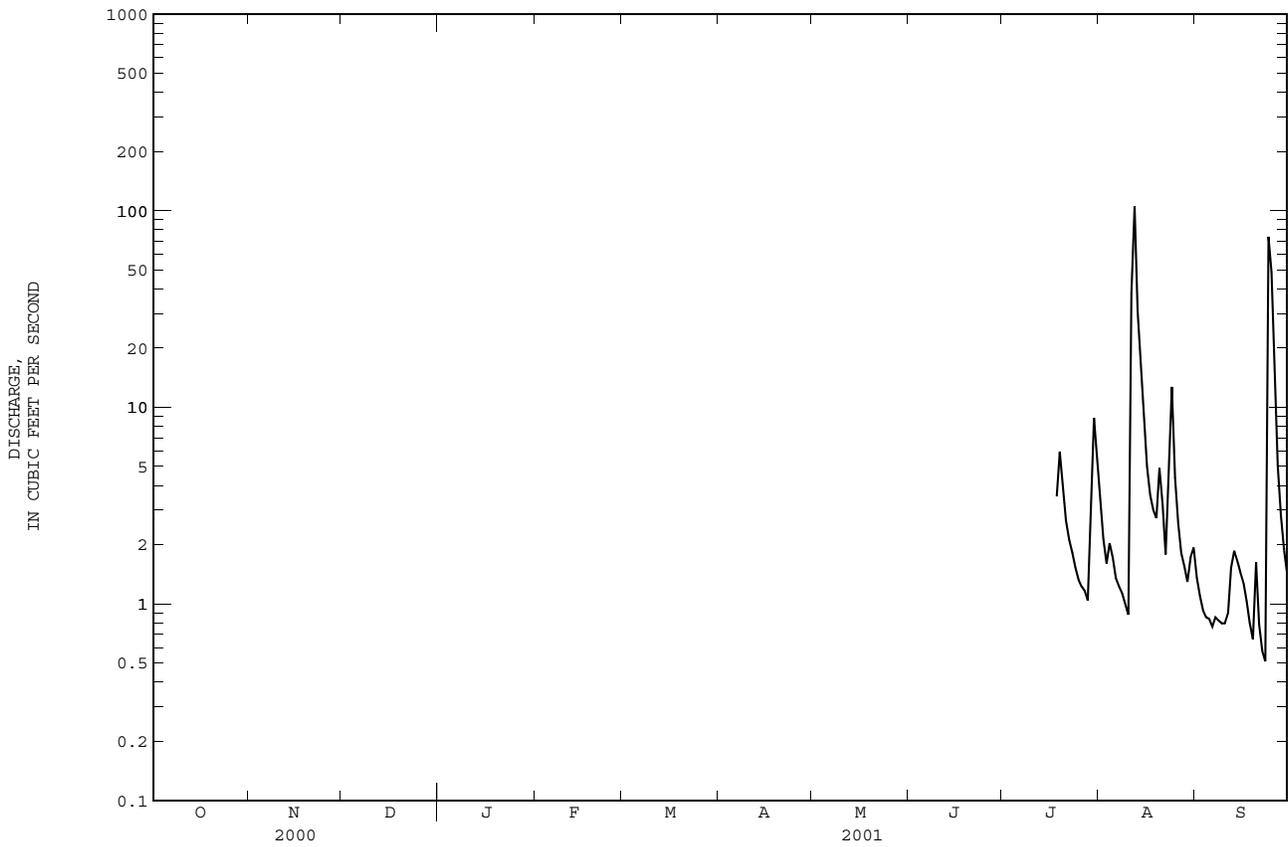
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	---	---	---	---	---	---	3.08	8.88	5.70
MAX	---	---	---	---	---	---	---	---	---	3.08	8.88	5.70
(WY)	---	---	---	---	---	---	---	---	---	2001	2001	2001
MIN	---	---	---	---	---	---	---	---	---	3.08	8.88	5.70
(WY)	---	---	---	---	---	---	---	---	---	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

ANNUAL TOTAL	489.38
ANNUAL MEAN	6.53
HIGHEST DAILY MEAN	106 Aug 12
LOWEST DAILY MEAN	0.51 Sep 23
ANNUAL SEVEN-DAY MINIMUM	0.82 Sep 4
MAXIMUM PEAK FLOW	498 Aug 12
MAXIMUM PEAK STAGE	6.12 Aug 12
INSTANTANEOUS LOW FLOW	0.42 Sep 24
10 PERCENT EXCEEDS	13
50 PERCENT EXCEEDS	1.7
90 PERCENT EXCEEDS	0.80



POTOMAC RIVER BASIN

01643880 BEAVERDAM CREEK AT ROUTE 734 NEAR MOUNTVILLE, VA--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	0.46	3.0	3.0	6.0	1.8	29	45	20	4.4	1.2	1.1
2	0.87	0.63	2.8	2.8	5.2	2.2	24	99	15	3.8	0.90	1.1
3	0.66	0.57	2.8	e2.8	4.2	23	21	62	11	3.4	0.65	0.84
4	0.44	0.51	2.7	e2.8	3.7	18	18	42	9.7	2.7	0.72	0.54
5	0.35	0.47	2.7	2.9	3.0	13	16	39	13	2.1	0.83	0.32
6	0.73	0.51	2.5	3.3	2.9	9.3	15	33	22	1.6	7.2	0.29
7	0.89	0.39	2.5	5.0	4.2	6.1	13	31	16	1.2	2.2	0.22
8	0.92	0.32	3.5	5.7	5.7	5.0	12	31	11	1.2	0.93	0.17
9	1.1	0.26	6.8	5.3	4.9	4.6	12	29	8.4	1.2	0.56	0.13
10	1.4	0.27	5.9	5.3	3.8	4.5	15	29	7.0	1.5	0.39	0.10
11	1.7	0.25	7.5	7.2	4.1	3.6	12	22	5.8	1.6	0.33	0.07
12	2.1	0.38	8.2	8.6	4.3	3.4	10	19	4.9	1.4	0.22	0.04
13	2.7	1.5	7.7	7.6	4.0	7.4	11	19	32	1.1	0.19	0.03
14	3.2	1.9	7.7	6.4	3.2	15	12	17	69	36	0.14	0.03
15	4.3	2.2	7.4	5.8	3.0	10	15	14	105	18	0.09	0.03
16	2.4	2.7	6.5	5.1	3.0	8.4	13	12	42	7.2	0.08	0.03
17	1.3	2.5	5.9	5.0	2.8	7.6	9.2	11	30	4.2	0.07	0.05
18	0.79	2.2	6.5	4.5	2.7	15	9.0	26	25	2.9	0.05	0.04
19	0.47	2.3	6.0	4.6	2.7	17	12	20	27	2.6	0.04	0.03
20	0.62	2.3	5.6	5.2	2.6	96	9.7	14	25	2.3	0.04	0.03
21	0.43	2.1	4.9	5.3	2.7	66	9.5	11	19	2.0	0.03	0.03
22	0.38	1.8	4.7	5.4	2.4	41	36	9.3	15	1.6	0.03	0.20
23	0.38	1.9	4.6	6.2	2.3	33	24	8.3	13	1.5	0.03	6.7
24	0.44	3.5	5.4	7.6	2.1	29	16	7.5	11	3.4	0.03	1.8
25	0.27	17	4.9	9.2	2.0	26	16	6.8	8.9	3.0	0.03	0.51
26	0.17	27	4.8	7.9	2.1	27	13	18	8.0	10	0.02	2.4
27	0.26	10	4.4	6.9	2.0	62	9.1	121	8.2	16	0.02	29
28	0.17	5.3	4.2	6.2	1.9	37	107	61	7.7	17	0.33	24
29	0.20	4.1	4.1	6.4	---	32	119	38	6.2	6.5	0.76	11
30	0.28	3.8	3.7	2.9	---	28	61	29	5.2	3.2	1.1	4.5
31	0.60	---	3.4	4.0	---	26	---	24	---	1.8	0.56	---
TOTAL	31.62	99.12	153.3	166.9	93.5	677.9	698.5	947.9	601.0	166.4	19.77	85.33
MEAN	1.02	3.30	4.95	5.38	3.34	21.9	23.3	30.6	20.0	5.37	0.64	2.84
MAX	4.3	27	8.2	9.2	6.0	96	119	121	105	36	7.2	29
MIN	0.17	0.25	2.5	2.8	1.9	1.8	9.0	6.8	4.9	1.1	0.02	0.03

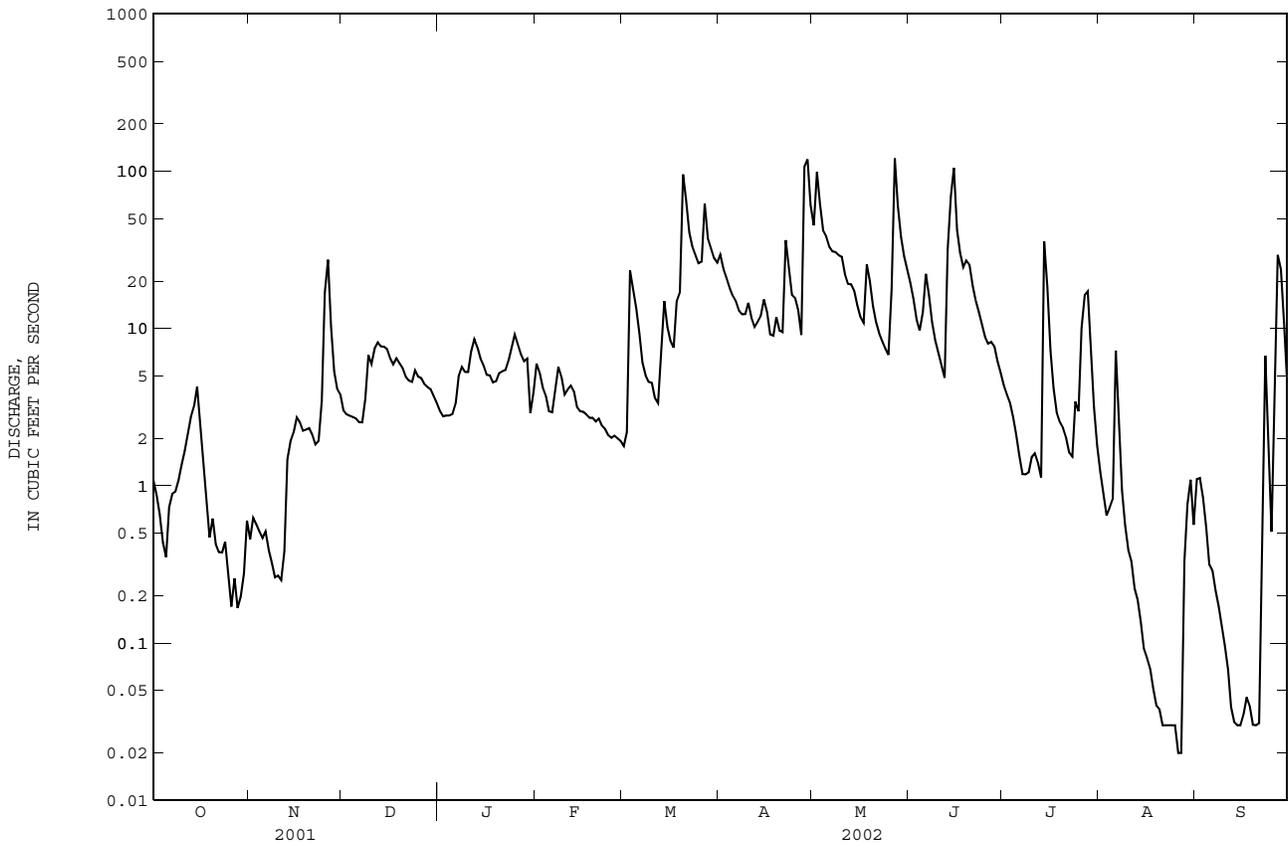
01643880 BEAVERDAM CREEK AT ROUTE 734 NEAR MOUNTVILLE, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.02	3.30	4.95	5.38	3.34	21.9	23.3	30.6	20.0	4.66	4.76	4.27
MAX	1.02	3.30	4.95	5.38	3.34	21.9	23.3	30.6	20.0	5.37	8.88	5.70
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001	2001
MIN	1.02	3.30	4.95	5.38	3.34	21.9	23.3	30.6	20.0	3.08	0.64	2.84
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 2001 - 2002	
ANNUAL TOTAL	773.42		3741.24			
ANNUAL MEAN	4.63		10.2		9.62	
HIGHEST ANNUAL MEAN					10.2	2002
LOWEST ANNUAL MEAN					6.53	2001
HIGHEST DAILY MEAN	106	Aug 12	121	May 27	121	May 27 2002
LOWEST DAILY MEAN	0.17	Oct 26	0.02	aAug 26	0.02	aAug 26 2002
ANNUAL SEVEN-DAY MINIMUM	0.26	Oct 24	0.03	Aug 21	0.03	Aug 21 2002
MAXIMUM PEAK FLOW			293	Jun 15	498	Aug 12 2001
MAXIMUM PEAK STAGE			4.87	Jun 15	6.12	Aug 12 2001
INSTANTANEOUS LOW FLOW			0.02	bAug 26	0.02	bAug 26 2002
10 PERCENT EXCEEDS	7.5		27		26	
50 PERCENT EXCEEDS	1.9		4.3		3.5	
90 PERCENT EXCEEDS	0.44		0.26		0.32	

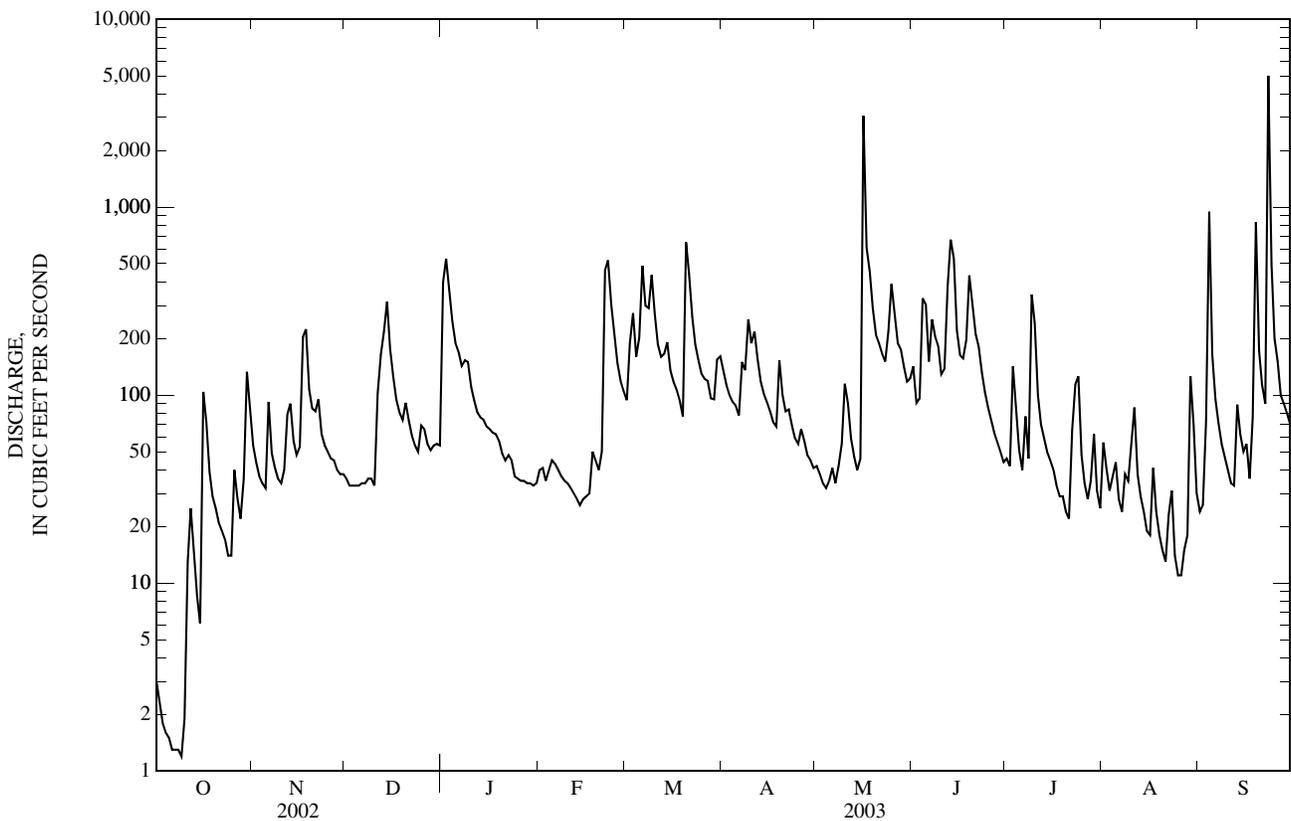
a Also Aug. 27, 2002.
 b Also Aug. 27, 28, 2002.
 e Estimated.



01643880 BEAVERDAM CREEK AT ROUTE 734 NEAR MOUNTVILLE, VA—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	8,651.00		47,206.8		69.8	
ANNUAL MEAN	23.7		129		10.2	
HIGHEST ANNUAL MEAN					129	2003
LOWEST ANNUAL MEAN					10.2	2002
HIGHEST DAILY MEAN	314	Dec 14	e5,000	Sep 23	e5,000	Sep 23, 2003
LOWEST DAILY MEAN	0.02	aAug 26	1.2	Oct 9	0.02	aAug 26, 2002
ANNUAL SEVEN-DAY MINIMUM	0.03	Aug 21	1.4	Oct 3	0.03	Aug 21, 2002
MAXIMUM PEAK FLOW			22,000	Sep 23	22,000	Sep 23, 2003
MAXIMUM PEAK STAGE			b17.00	Sep 23	b17.00	Sep 23, 2003
INSTANTANEOUS LOW FLOW			0.91	Oct 7	0.02	cAug 26, 2002
ANNUAL RUNOFF (CFSM)	0.50		2.74		1.48	
ANNUAL RUNOFF (INCHES)	6.82		37.21		20.09	
10 PERCENT EXCEEDS	62		249		160	
50 PERCENT EXCEEDS	9.3		62		26	
90 PERCENT EXCEEDS	0.37		24		0.76	

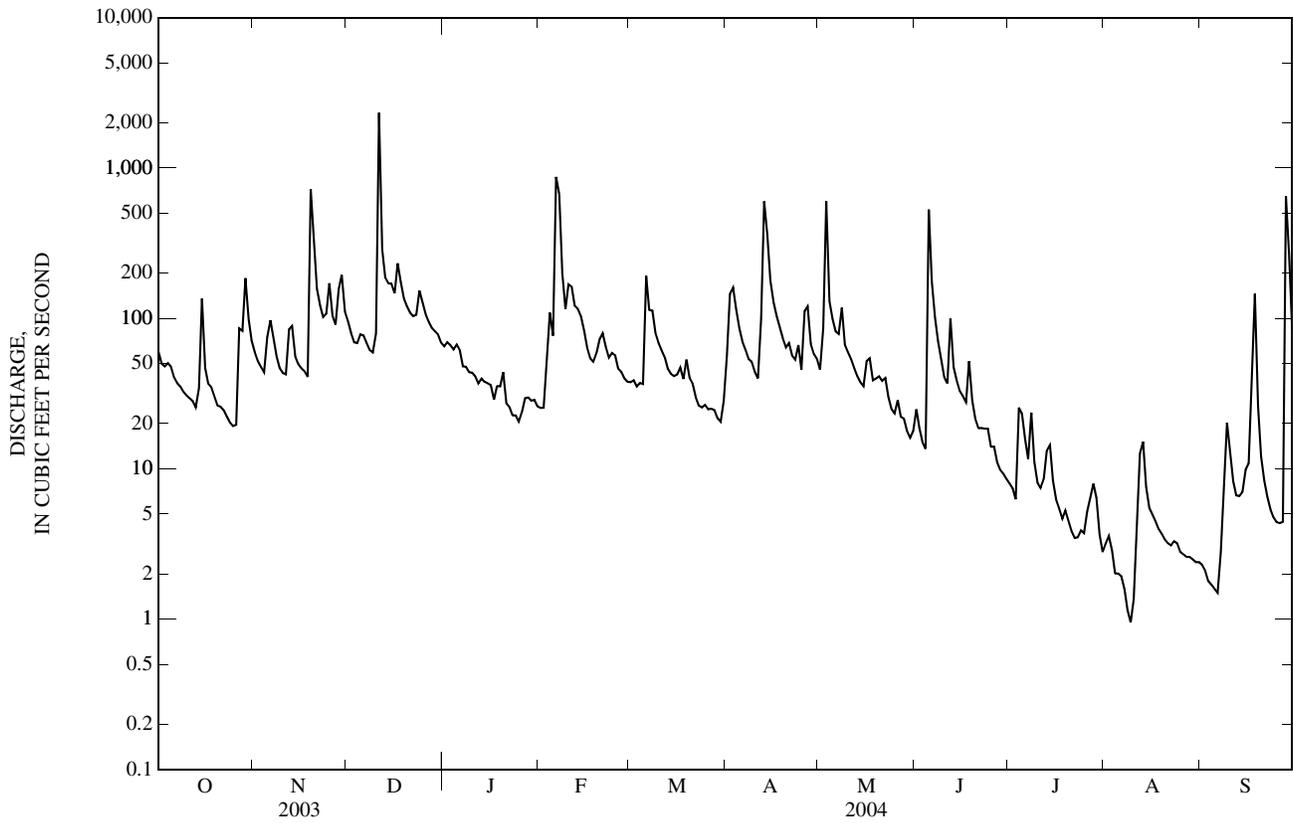
a Also Aug. 27, 2002.
 b Form floodmarks.
 b Also Aug. 27, 28, 2002.
 e Estimated.



01643880 BEAVERDAM CREEK AT ROUTE 734 NEAR MOUNTVILLE, VA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	52,764		25,906.05		70.1	
ANNUAL MEAN	145		70.8		129	
HIGHEST ANNUAL MEAN					10.2	2003
LOWEST ANNUAL MEAN					10.2	2002
HIGHEST DAILY MEAN	5,000	Sep 23	2,330	Dec 11	5,000	Sep 23, 2003
LOWEST DAILY MEAN	11	Aug 25	0.95	Aug 9	0.02	aAug 26, 2002
ANNUAL SEVEN-DAY MINIMUM	17	Aug 20	1.6	Aug 4	0.03	Aug 21, 2002
MAXIMUM PEAK FLOW			6,070	Dec 11	22,000	Sep 23, 2003
MAXIMUM PEAK STAGE			12.20	Dec 11	b17.00	Sep 23, 2003
INSTANTANEOUS LOW FLOW			0.90	cAug 9	0.02	dAug 26, 2002
ANNUAL RUNOFF (CFSM)	3.06		1.50		1.49	
ANNUAL RUNOFF (INCHES)	41.59		20.42		20.19	
10 PERCENT EXCEEDS	263		129		152	
50 PERCENT EXCEEDS	77		40		32	
90 PERCENT EXCEEDS	29		3.9		1.6	

- a Also Aug. 27, 2002.
- b From floodmarks.
- c Also Aug. 10, 2004.
- d Also Aug. 27, 28, 2002.
- e Estimated.



POTOMAC RIVER BASIN

01644000 GOOSE CREEK NEAR LEESBURG, VA

LOCATION.--Lat 39°01'10", long 77°34'39", NAD83, Loudoun County, Hydrologic Unit 02070008, on left bank 400 ft upstream from bridge on State Highway 621 at Evergreen Mills, 1.4 mi downstream from Little River, 6.7 mi south of Leesburg, and 10.9 mi upstream from mouth.

DRAINAGE AREA.--332 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1909 to April 1911, September 1911 to December 1912, January 1930 to current year.

REVISED RECORDS.--WSP 851: 1935-37. WSP 951: 1933(M), 1937. WSP 1302: 1934-35(M). WSP 2103: Drainage area. WDR VA-72-1: 1937(M), 1943(M), 1951(M), 1956(M). WDR VA-79-1: 1978.

GAGE.--Water-stage recorder. Datum of gage is 248.93 ft NGVD of 1929. July 12, 1909, to Dec. 31, 1912, nonrecording gage at site 1,000 ft downstream at different datum. Jan. 21, 1930, to Nov. 28, 1938, non-recording gage at site 400 ft downstream at datum 4.20 ft lower than present datum.

REMARKS.--Records good except those for period with ice effect, Dec. 31 to Jan. 3 and periods of doubtful or no gage-height record, May 2, 3, 9-13, June 19, 20, and Sept. 18-21, which are fair. National Weather Service gage-height telemeter at station. Maximum discharge, 78,100 ft³/s, from rating curve extended above 11,000 ft³/s on basis of slope-area measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May or June 1889 reached a stage of about 29 ft, discharge, about 45,000 ft³/s, site and datum in use 1930-38, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
No peak greater than base discharge.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	24	45	e29	45	34	158	352	137	38	18	8.6
2	39	26	41	e26	46	35	142	e800	113	33	14	11
3	35	32	40	e27	44	150	119	e720	90	30	11	11
4	33	25	39	28	41	178	105	289	79	27	10	9.1
5	32	21	36	27	37	99	94	252	79	24	10	8.2
6	30	21	35	29	35	77	89	217	114	20	23	7.2
7	37	21	33	39	37	67	83	187	113	17	32	6.2
8	40	21	38	45	42	60	78	183	89	16	16	5.7
9	39	21	56	43	44	56	77	e171	73	15	10	5.1
10	38	22	58	43	45	54	89	e150	65	17	7.6	4.8
11	38	23	70	46	45	51	87	e140	59	17	6.5	5.2
12	44	23	80	53	45	47	76	e130	53	20	5.6	5.7
13	43	23	78	57	44	57	76	e129	64	17	4.6	6.1
14	40	23	71	50	42	80	79	115	383	151	3.9	6.5
15	93	23	67	46	41	82	85	101	604	209	2.7	7.5
16	69	24	61	43	39	71	87	88	323	83	2.6	9.3
17	54	23	55	40	39	67	77	82	171	44	2.9	12
18	36	24	57	39	38	83	70	114	123	30	3.2	e10
19	28	24	56	39	37	97	69	149	e315	24	3.2	e9.0
20	22	24	53	40	35	447	120	106	e210	21	2.9	e7.8
21	21	24	48	42	36	522	149	87	156	22	2.6	e7.0
22	23	24	44	42	36	286	363	78	112	18	2.5	22
23	21	24	43	41	36	200	350	73	90	15	3.1	48
24	23	26	46	44	34	164	212	70	77	16	3.3	22
25	25	58	46	49	33	143	169	66	67	18	3.1	11
26	22	213	46	49	33	135	151	e63	60	25	3.1	10
27	20	124	43	47	35	331	124	e690	58	63	3.2	102
28	20	72	39	43	35	257	654	e450	58	175	5.5	141
29	20	57	39	42	---	189	1070	340	51	70	18	79
30	20	50	33	44	---	165	499	226	43	36	16	46
31	21	---	e32	43	---	151	---	171	---	24	9.3	---
TOTAL	1069	1140	1528	1275	1099	4435	5601	6789	4029	1335	259.4	644.0
MEAN	34.5	38.0	49.3	41.1	39.2	143	187	219	134	43.1	8.37	21.5
MAX	93	213	80	57	46	522	1070	800	604	209	32	141
MIN	20	21	32	26	33	34	69	63	43	15	2.5	4.8
CFSM	0.10	0.11	0.15	0.12	0.12	0.43	0.56	0.66	0.40	0.13	0.03	0.06
IN.	0.12	0.13	0.17	0.14	0.12	0.50	0.63	0.76	0.45	0.15	0.03	0.07

01644000 GOOSE CREEK NEAR LEESBURG, VA--Continued

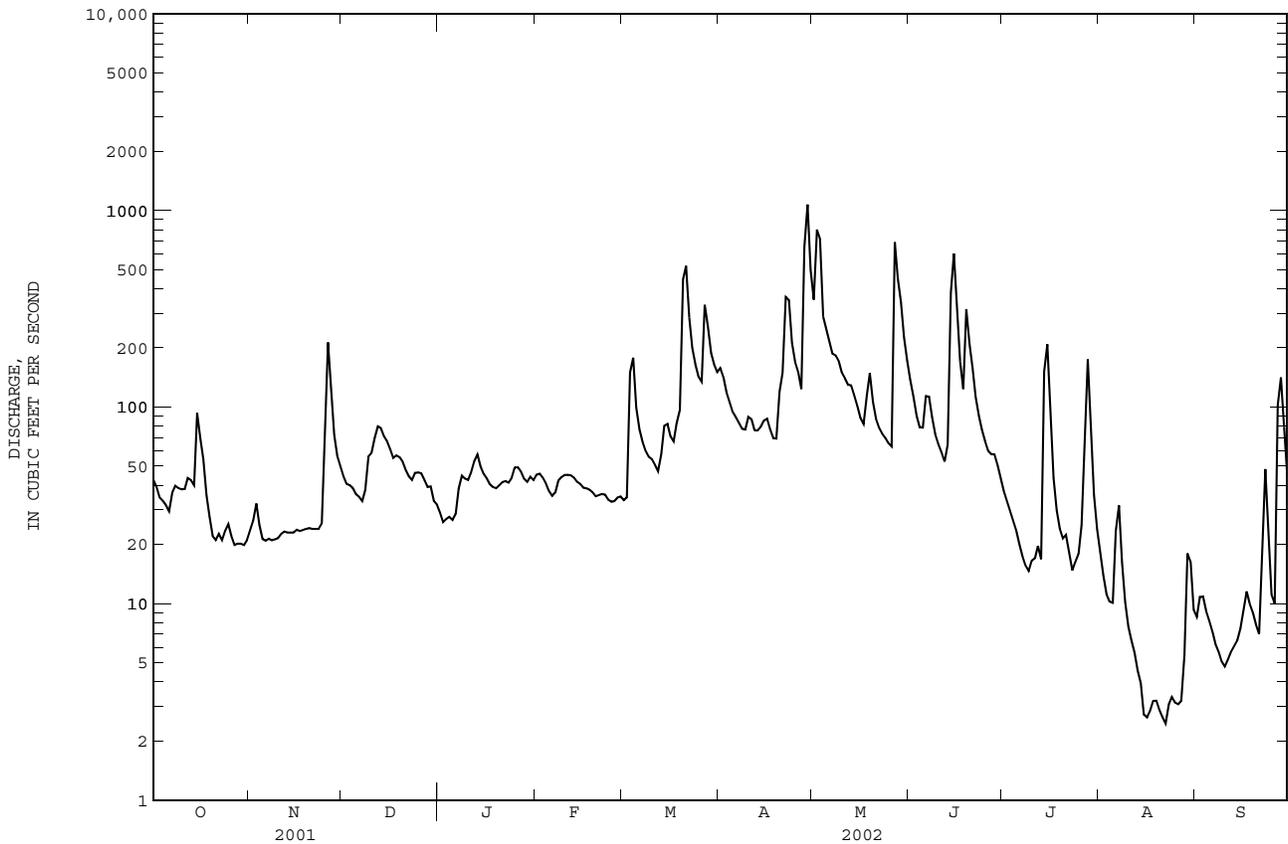
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1912, 1930 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	192	215	324	407	504	590	512	362	255	136	152	134
MAX	2265	1155	1316	1499	1621	1892	1766	1322	2887	1207	1188	1054
(WY)	1943	1933	1993	1996	1998	1993	1983	1989	1972	1956	1937	1945
MIN	2.12	3.83	14.8	25.8	26.3	83.6	141	85.5	24.8	6.46	1.86	1.38
(WY)	1931	1931	1966	1966	1931	1931	1981	1969	1999	1999	1930	1985

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1909 - 1912 1930 - 2002

ANNUAL TOTAL	77863.2		29203.4					
ANNUAL MEAN	213		80.0				317	
HIGHEST ANNUAL MEAN							664 1972	
LOWEST ANNUAL MEAN							55.2 1931	
HIGHEST DAILY MEAN	3700 Mar 30		1070 Apr 29		e53600 Jun 22		1972	
LOWEST DAILY MEAN	5.7 Sep 19		2.5 Aug 22		0.40 aSep 27		1941	
ANNUAL SEVEN-DAY MINIMUM	6.5 Sep 13		2.8 Aug 16		0.45 Sep 19		1985	
MAXIMUM PEAK FLOW			1850 Apr 28		78100 Jun 22		1972	
MAXIMUM PEAK STAGE			3.89 Apr 28		b30.59 Jun 22		1972	
INSTANTANEOUS LOW FLOW			2.4 Aug 22		(c)		(d)	
ANNUAL RUNOFF (CFSM)	0.64		0.24				0.96	
ANNUAL RUNOFF (INCHES)	8.72		3.27				12.99	
10 PERCENT EXCEEDS	503		171				700	
50 PERCENT EXCEEDS	89		43				157	
90 PERCENT EXCEEDS	23		9.3				17	

- a Also Sept. 28-30, 1941.
- b From high-water mark in gage house.
- c Not determined.
- d Probably occurred Sept. 27-30, 1941.
- e Estimated.



01644000 GOOSE CREEK NEAR LEESBURG, VA

LOCATION.--Lat 39°01'10", long 77°34'39", NAD83, Loudoun County, Hydrologic Unit 02070008, on left bank 400 ft upstream from bridge on State Highway 621 at Evergreen Mills, 1.4 mi downstream from Little River, 6.7 mi south of Leesburg, and 10.9 mi upstream from mouth.

DRAINAGE AREA.--332 mi².

PERIOD OF RECORD.--July 1909 to April 1911, September 1911 to December 1912, January 1930 to current year.

REVISED RECORDS.--WSP 851: 1935-37. WSP 951: 1933(M), 1937. WSP 1302: 1934-35(M). WSP 2103: Drainage area. WDR VA-72-1: 1937(M), 1943(M), 1951(M), 1956(M). WDR VA-79-1: 1978.

GAGE.--Water-stage recorder. Datum of gage is 248.93 ft NGVD of 1929. July 12, 1909, to Dec. 31, 1912, nonrecording gage at site 1,000 ft downstream at different datum. Jan. 21, 1930, to Nov. 28, 1938, non-recording gage at site 400 ft downstream at datum 4.20 ft lower than present datum.

REMARKS.--Records good except those for periods of doubtful or no gage-height record, Oct. 8, Jan. 30 to Feb. 15, Feb. 18-20, and July 17, 18, and periods with ice effect, Dec. 6, 8-10, and Jan. 16-29, which are fair. National Weather Service gage-height telemeter at station. Maximum discharge, 78,100 ft³/s, from rating curve extended above 11,000 ft³/s on basis of slope-area measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May or June 1889 reached a stage of about 29 ft, discharge, about 45,000 ft³/s, site and datum in use 1930-38, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 2	0145	7,140	10.83	Jun 14	0545	4,950	7.90
Feb 23	0145	6,560	10.07	Jun 19	1000	6,430	9.89
Mar 21	0230	6,990	10.63	Sep 4	0915	5,570	8.74
May 16	2100	14,200	16.44	Sep 19	1500	7,980	11.82
Jun 13	0545	5,520	8.68	Sep 23	1615	*36,900	*23.32

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	353	214	1,910	e165	661	954	339	806	430	307	217
2	23	259	188	3,900	e160	1,020	841	325	589	415	327	253
3	19	206	177	2,200	e155	1,900	746	294	549	1,250	263	257
4	17	175	146	1,600	e195	1,120	680	274	1,570	819	271	3,240
5	15	158	130	1,080	e230	1,150	634	278	1,500	498	1,260	1,100
6	16	421	e170	931	e200	2,500	577	324	898	413	448	594
7	15	356	146	794	e175	2,080	753	295	1,360	424	314	446
8	e15	246	e144	715	e160	1,750	981	445	1,530	399	299	370
9	14	207	e140	786	e140	2,730	1,450	419	1,180	720	275	323
10	17	184	e135	620	e170	2,280	1,400	651	866	1,580	279	288
11	39	266	372	527	e150	1,440	1,570	839	774	712	579	257
12	117	409	1,120	458	e130	1,230	1,240	562	2,330	487	351	239
13	101	701	1,230	422	e120	1,120	948	451	3,610	403	290	615
14	58	424	2,450	412	e105	1,430	801	389	3,420	347	251	544
15	42	328	1,520	387	e135	1,070	713	529	1,880	325	206	428
16	208	370	973	e345	99	930	647	8,610	1,280	300	182	394
17	548	1,540	725	e315	96	847	580	5,480	1,080	e274	278	314
18	240	1,630	599	e280	e200	760	527	2,950	1,480	e235	262	343
19	151	811	525	e250	e180	663	950	2,140	4,830	238	186	5,820
20	112	603	579	e235	e165	2,330	756	1,440	2,770	224	164	1,800
21	91	502	570	e220	312	4,060	612	1,320	2,160	207	150	1,040
22	75	573	445	e200	2,220	2,120	626	1,380	1,630	204	142	784
23	65	423	402	e185	4,480	1,380	542	1,020	1,210	808	196	20,800
24	56	346	368	e170	2,230	1,090	459	1,320	940	571	138	5,510
25	52	314	488	e160	1,470	909	427	2,410	784	328	117	1,490
26	113	288	572	e190	1,050	815	474	1,720	682	251	116	1,090
27	174	272	448	e175	848	845	451	1,270	601	220	131	864
28	113	249	405	e169	747	679	387	1,100	530	219	392	806
29	113	227	399	e185	---	637	359	955	483	419	227	664
30	590	225	393	e175	---	910	340	812	443	279	903	567
31	613	---	380	e170	---	1,110	---	703	---	222	283	---
TOTAL	3,852	13,066	16,553	20,166	16,487	43,566	22,425	41,044	43,765	14,221	9,587	51,457
MEAN	124	436	534	651	589	1,405	748	1,324	1,459	459	309	1,715
MAX	613	1,630	2,450	3,900	4,480	4,060	1,570	8,610	4,830	1,580	1,260	20,800
MIN	14	158	130	160	96	637	340	274	443	204	116	217
CFSM	0.37	1.31	1.61	1.96	1.77	4.23	2.25	3.99	4.39	1.38	0.93	5.17
IN.	0.43	1.46	1.85	2.26	1.85	4.88	2.51	4.60	4.90	1.59	1.07	5.77

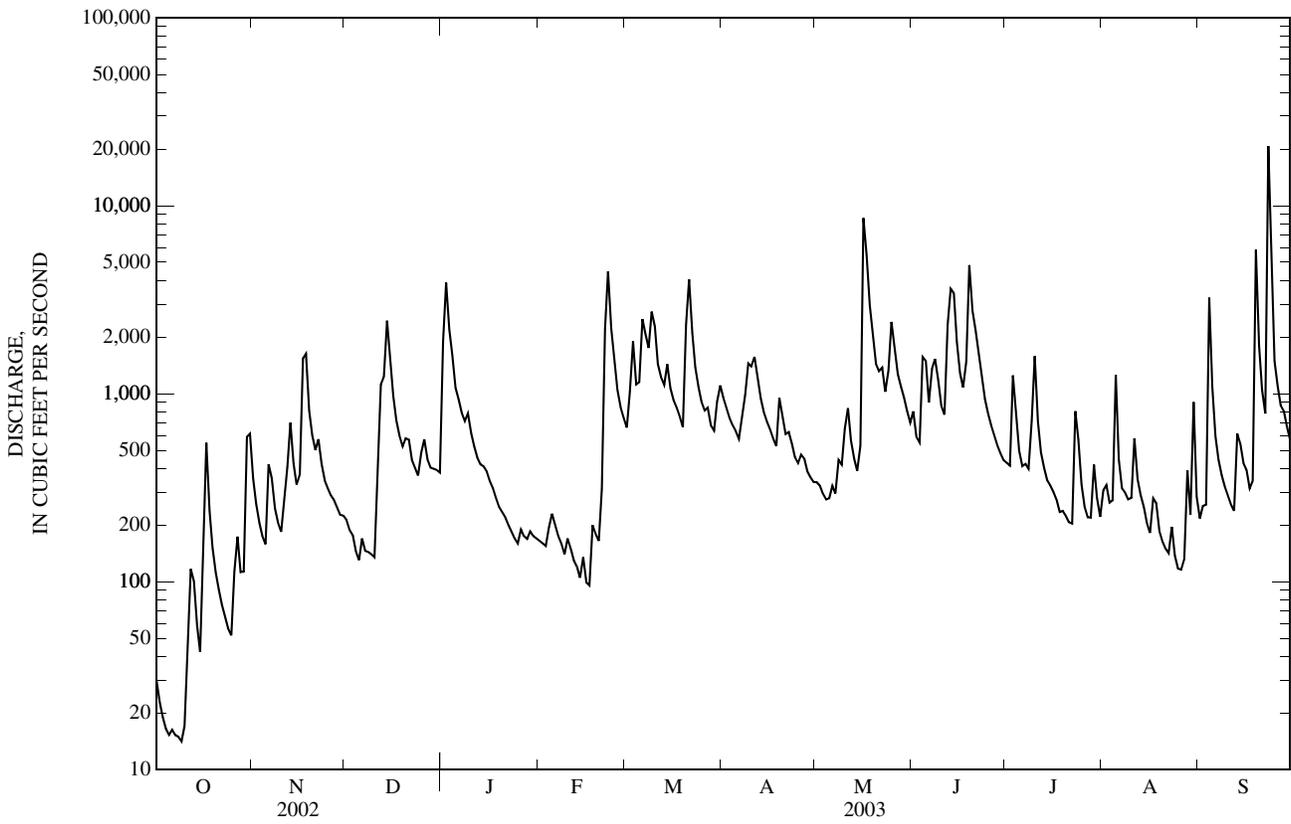
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1912, 1930 - 2003, BY WATER YEAR (WY)

MEAN	191	218	327	410	505	600	515	375	271	140	154	155
MAX	2,265	1,155	1,316	1,499	1,621	1,892	1,766	1,324	2,887	1,207	1,188	1,715
(WY)	(1943)	(1933)	(1993)	(1996)	(1998)	(1993)	(1983)	(2003)	(1972)	(1956)	(1937)	(2003)
MIN	2.12	3.83	14.8	25.8	26.3	83.6	141	85.5	24.8	6.46	1.86	1.38
(WY)	(1931)	(1931)	(1966)	(1966)	(1931)	(1931)	(1981)	(1969)	(1999)	(1999)	(1930)	(1985)

01644000 GOOSE CREEK NEAR LEESBURG, VA—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS	
					1909 - 1912	1930 - 2003
ANNUAL TOTAL	58,937.4		296,189		324	
ANNUAL MEAN	161		811		811	
HIGHEST ANNUAL MEAN					2003	
LOWEST ANNUAL MEAN					55.2	
HIGHEST DAILY MEAN	2,450	Dec 14	20,800	Sep 23	e53,600	Jun 22, 1972
LOWEST DAILY MEAN	2.5	Aug 22	14	Oct 9	0.40	aSep 27, 1941
ANNUAL SEVEN-DAY MINIMUM	2.8	Aug 16	16	Oct 4	0.45	Sep 19, 1985
MAXIMUM PEAK FLOW			36,900	Sep 23	78,100	Jun 22, 1972
MAXIMUM PEAK STAGE			23.32	Sep 23	b30.59	Jun 22, 1972
INSTANTANEOUS LOW FLOW			14	Oct 9	(c)	(d)
ANNUAL RUNOFF (CFSM)	0.49		2.44		0.98	
ANNUAL RUNOFF (INCHES)	6.60		33.19		13.26	
10 PERCENT EXCEEDS	422		1,610		711	
50 PERCENT EXCEEDS	70		443		160	
90 PERCENT EXCEEDS	9.3		139		18	

- a Also Sept. 28-30, 1941.
- b From high-water mark in gage house.
- c Not determined.
- d Probably occurred Sept. 27-30, 1941.
- e Estimated.



01644000 GOOSE CREEK NEAR LEESBURG, VA

LOCATION.--Lat 39°01'10", long 77°34'39", NAD83, Loudoun County, Hydrologic Unit 02070008, on left bank 400 ft upstream from bridge on State Highway 621 at Evergreen Mills, 1.4 mi downstream from Little River, 6.7 mi south of Leesburg, and 10.9 mi upstream from mouth.

DRAINAGE AREA.--332 mi².

PERIOD OF RECORD.--July 1909 to April 1911, September 1911 to December 1912, January 1930 to current year.

REVISED RECORDS.--WSP 851: 1935-37. WSP 951: 1933(M), 1937. WSP 1302: 1934-35(M). WSP 2103: Drainage area. WDR VA-72-1: 1937(M), 1943(M), 1951(M), 1956(M). WDR VA-79-1: 1978.

GAGE.--Water-stage recorder. Datum of gage is 248.93 ft NGVD of 1929. July 12, 1909, to Dec. 31, 1912, nonrecording gage at site 1,000 ft downstream at different datum. Jan. 21, 1930, to Nov. 28, 1938, non-recording gage at site 400 ft downstream at datum 4.20 ft lower than present datum.

REMARKS.--Records good except those for periods with ice effect, Jan. 8-19 and Jan. 21 to Feb. 3, which are fair. National Weather Service gage-height telemeter at station. Maximum discharge, 78,100 ft³/s, from rating curve extended above 11,000 ft³/s on basis of slope-area measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May or June 1889 reached a stage of about 29 ft, discharge, about 45,000 ft³/s, site and datum in use 1930-38, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 20	0115	6,820	10.40	Apr 14	0145	4,020	6.61
Dec 11	1545	*16,200	*17.31	May 3	0845	4,620	7.45
Feb 6	2215	9,340	13.13	Sep 29	0245	9,230	13.03

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	515	500	751	526	e178	313	369	451	222	121	81	23
2	481	441	657	529	e175	313	970	487	195	118	122	21
3	436	407	579	523	e275	311	1,440	2,690	167	110	102	21
4	429	378	545	493	784	306	1,050	1,150	153	115	83	20
5	420	464	605	498	649	311	771	827	1,800	299	84	19
6	386	801	623	507	3,010	901	621	679	1,190	167	77	19
7	358	647	558	426	4,620	784	538	585	593	144	61	20
8	341	497	517	e370	1,830	684	478	950	441	233	54	32
9	322	423	495	e340	903	544	446	592	369	153	49	229
10	309	388	534	e300	942	479	401	586	311	117	46	142
11	298	375	11,600	e310	1,290	431	368	493	291	106	44	69
12	292	477	3,430	e350	869	404	623	421	936	107	78	50
13	282	604	1,700	e330	781	356	3,030	376	496	198	109	42
14	282	438	1,390	e305	746	328	2,810	342	399	169	95	38
15	965	396	1,420	e295	623	319	1,490	338	343	163	71	41
16	427	378	1,180	e265	514	315	1,050	362	324	117	62	54
17	332	367	1,630	e270	456	367	842	434	293	98	53	71
18	310	347	1,590	e305	433	319	721	345	536	89	48	1,340
19	291	2,070	1,120	e280	431	351	631	339	381	91	45	457
20	268	3,350	953	244	479	314	553	341	284	97	43	212
21	259	1,260	821	e230	512	290	569	333	236	93	42	147
22	257	929	766	e225	480	268	504	330	220	83	41	116
23	245	762	749	e220	430	244	472	287	256	104	42	97
24	231	730	956	e215	425	239	593	254	223	150	38	84
25	223	1,270	1,100	e195	433	241	443	233	192	116	33	76
26	219	797	842	e192	387	239	664	244	182	96	30	70
27	911	698	754	e190	364	235	1,140	229	165	117	29	67
28	968	731	688	e188	344	238	689	231	148	357	28	2,600
29	1,280	1,460	648	e185	324	223	565	212	140	221	26	5,100
30	865	850	618	e182	---	217	502	186	128	121	24	936
31	600	---	557	e180	---	238	---	185	---	93	24	---
TOTAL	13,802	23,235	40,376	9,668	23,687	11,122	25,343	15,512	11,614	4,363	1,764	12,213
MEAN	445	774	1,302	312	817	359	845	500	387	141	56.9	407
MAX	1,280	3,350	11,600	529	4,620	901	3,030	2,690	1,800	357	122	5,100
MIN	219	347	495	180	175	217	368	185	128	83	24	19
CFSM	1.34	2.33	3.92	0.94	2.46	1.08	2.54	1.51	1.17	0.42	0.17	1.23
IN.	1.55	2.60	4.52	1.08	2.65	1.25	2.84	1.74	1.30	0.49	0.20	1.37

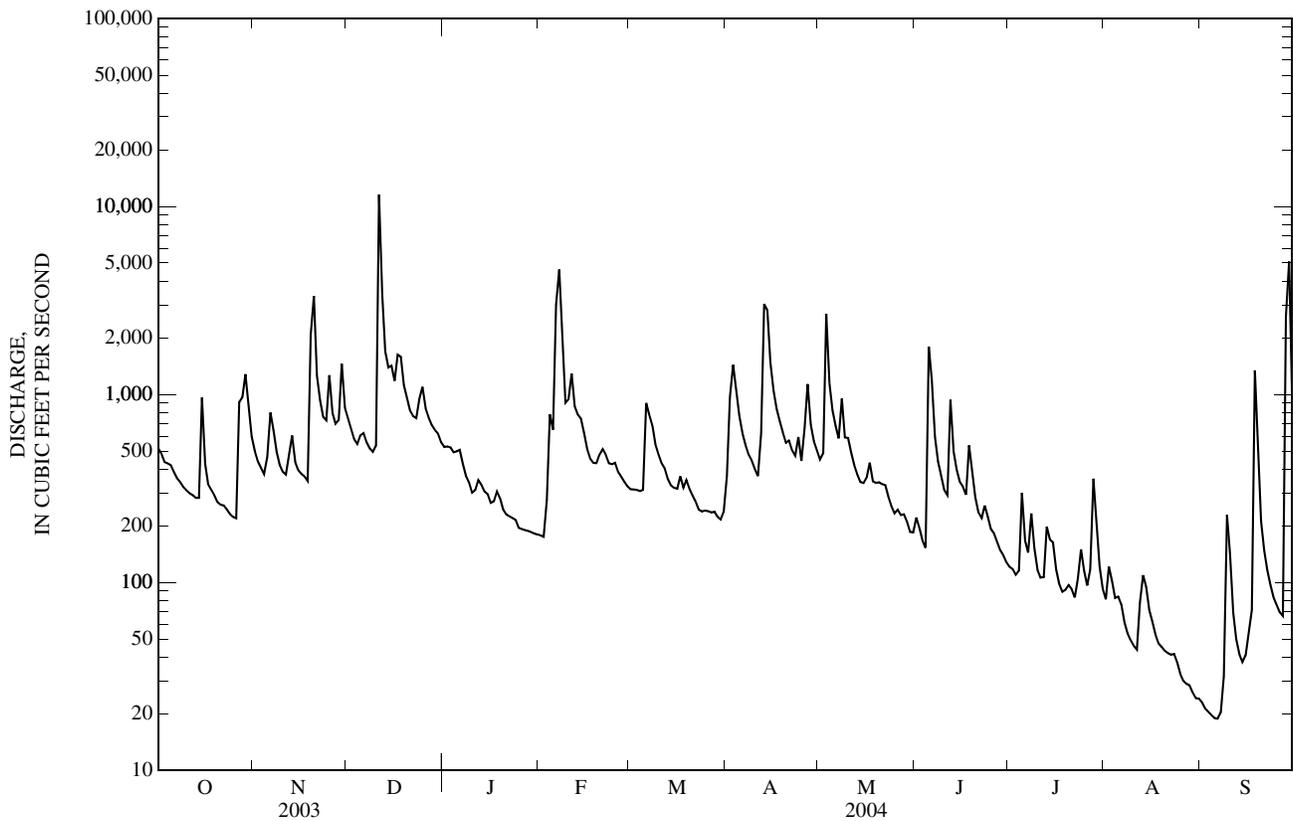
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1912, 1930 - 2004, BY WATER YEAR (WY)

MEAN	194	225	339	409	509	597	519	377	273	140	153	158
MAX	2,265	1,155	1,316	1,499	1,621	1,892	1,766	1,324	2,887	1,207	1,188	1,715
(WY)	(1943)	(1933)	(1993)	(1996)	(1998)	(1993)	(1983)	(2003)	(1972)	(1956)	(1937)	(2003)
MIN	2.12	3.83	14.8	25.8	26.3	83.6	141	85.5	24.8	6.46	1.86	1.38
(WY)	(1931)	(1931)	(1966)	(1966)	(1931)	(1931)	(1981)	(1969)	(1999)	(1999)	(1930)	(1985)

01644000 GOOSE CREEK NEAR LEESBURG, VA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS	
					1909 - 1912	1930 - 2004
ANNUAL TOTAL	340,131		192,699		327	
ANNUAL MEAN	932		526		811	
HIGHEST ANNUAL MEAN					2003	
LOWEST ANNUAL MEAN					55.2	
HIGHEST DAILY MEAN	20,800	Sep 23	11,600	Dec 11	e53,600	Jun 22, 1972
LOWEST DAILY MEAN	96	Feb 17	19	aSep 5	0.40	bSep 27, 1941
ANNUAL SEVEN-DAY MINIMUM	e119	Feb 11	20	Sep 1	0.45	Sep 19, 1985
MAXIMUM PEAK FLOW			16,200	Dec 11	78,100	Jun 22, 1972
MAXIMUM PEAK STAGE			17.31	Dec 11	c30.59	Jun 22, 1972
INSTANTANEOUS LOW FLOW			19	dSep 5	(f)	(g)
ANNUAL RUNOFF (CFSM)	2.81		1.59		0.984	
ANNUAL RUNOFF (INCHES)	38.11		21.59		13.37	
10 PERCENT EXCEEDS	1,730		966		714	
50 PERCENT EXCEEDS	577		342		162	
90 PERCENT EXCEEDS	198		70		18	

- a Also Sept. 6, 2004.
- b Also Sept. 28-30, 1941.
- c From high-water mark in gage house.
- d Also Sept. 6, 7, 2004.
- e Estimated.
- f Not determined.
- g Probably occurred Sept. 27-30, 1941.



POTOMAC RIVER BASIN

01644280 BROAD RUN NEAR LEESBURG, VA

LOCATION.--Lat 39°02'47", long 77°25'57", NAD83, Loudoun County, Hydrologic Unit 02070008, on right bank 15 ft upstream from State Highway 7 and 8 mi southeast of Leesburg.

DRAINAGE AREA.--76.1 mi².

PERIOD OF RECORD.--October 2001 to September 2002.

GAGE.--Water stage recorder. Elevation of gage is 195 ft NVGD of 1929, from topographic map.

REMARKS.--Records good except for period of no gage-height record, July 19-23, which is fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	5.5	9.7	7.2	16	8.8	55	78	29	5.7	4.2	57
2	16	4.8	7.4	6.6	15	12	44	513	22	4.2	3.7	60
3	14	5.8	6.0	7.4	13	233	34	236	17	3.4	3.5	29
4	12	4.9	5.5	9.2	12	80	27	87	13	3.3	11	20
5	9.7	3.8	6.0	6.3	11	46	23	69	11	2.9	6.4	14
6	6.9	4.1	4.9	13	11	36	19	49	83	2.4	13	11
7	6.8	5.0	4.4	58	14	29	16	41	33	2.3	9.3	8.1
8	5.8	3.9	12	45	18	27	14	39	21	2.4	4.0	6.9
9	5.3	4.0	47	30	16	22	17	33	13	2.3	2.9	5.9
10	5.4	4.0	26	23	14	20	49	30	9.4	2.6	2.4	4.8
11	5.0	3.8	72	33	15	17	30	24	6.9	3.9	2.8	3.8
12	5.2	3.7	52	41	14	16	22	20	5.4	2.8	2.5	2.7
13	4.9	3.6	37	30	14	54	20	104	36	2.3	1.9	3.0
14	14	3.6	39	23	13	73	18	49	98	265	1.6	2.7
15	147	3.7	36	20	12	45	18	28	189	121	1.7	2.9
16	45	3.8	24	18	11	35	24	20	69	39	1.7	3.5
17	54	3.9	19	16	11	31	17	16	35	21	1.7	4.9
18	33	4.1	26	16	11	78	14	70	31	13	2.3	4.7
19	21	4.0	24	14	9.1	70	13	52	171	e7.0	2.0	3.9
20	15	4.0	18	17	9.3	477	13	26	151	e3.0	1.5	3.1
21	11	3.7	14	20	11	223	21	21	43	e2.1	1.3	2.6
22	8.4	3.6	12	22	9.0	95	185	15	27	e2.1	1.3	2.4
23	10	3.6	11	23	7.9	59	73	13	18	e2.0	1.4	8.7
24	8.6	3.6	28	24	8.5	48	38	11	13	14	1.7	10
25	4.7	55	25	32	8.0	40	30	8.7	9.8	10	2.6	5.6
26	4.3	116	16	30	8.0	55	27	8.9	7.8	31	3.5	49
27	5.6	35	14	24	9.7	247	21	866	8.8	41	24	273
28	4.6	20	11	20	9.9	88	947	413	13	21	75	174
29	4.1	13	9.5	18	---	53	561	111	12	12	244	52
30	4.2	11	8.5	19	---	43	141	58	8.1	7.8	65	31
31	6.2	---	7.3	16	---	38	---	40	---	5.1	32	---
TOTAL	517.7	348.5	632.2	681.7	331.4	2398.8	2531	3149.6	1204.2	657.6	531.9	860.2
MEAN	16.7	11.6	20.4	22.0	11.8	77.4	84.4	102	40.1	21.2	17.2	28.7
MAX	147	116	72	58	18	477	947	866	189	265	244	273
MIN	4.1	3.6	4.4	6.3	7.9	8.8	13	8.7	5.4	2.0	1.3	2.4
CFSM	0.22	0.15	0.27	0.29	0.16	1.02	1.11	1.34	0.53	0.28	0.23	0.38
IN.	0.25	0.17	0.31	0.33	0.16	1.17	1.24	1.54	0.59	0.32	0.26	0.42

01644280 BROAD RUN NEAR LEESBURG, VA--Continued

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

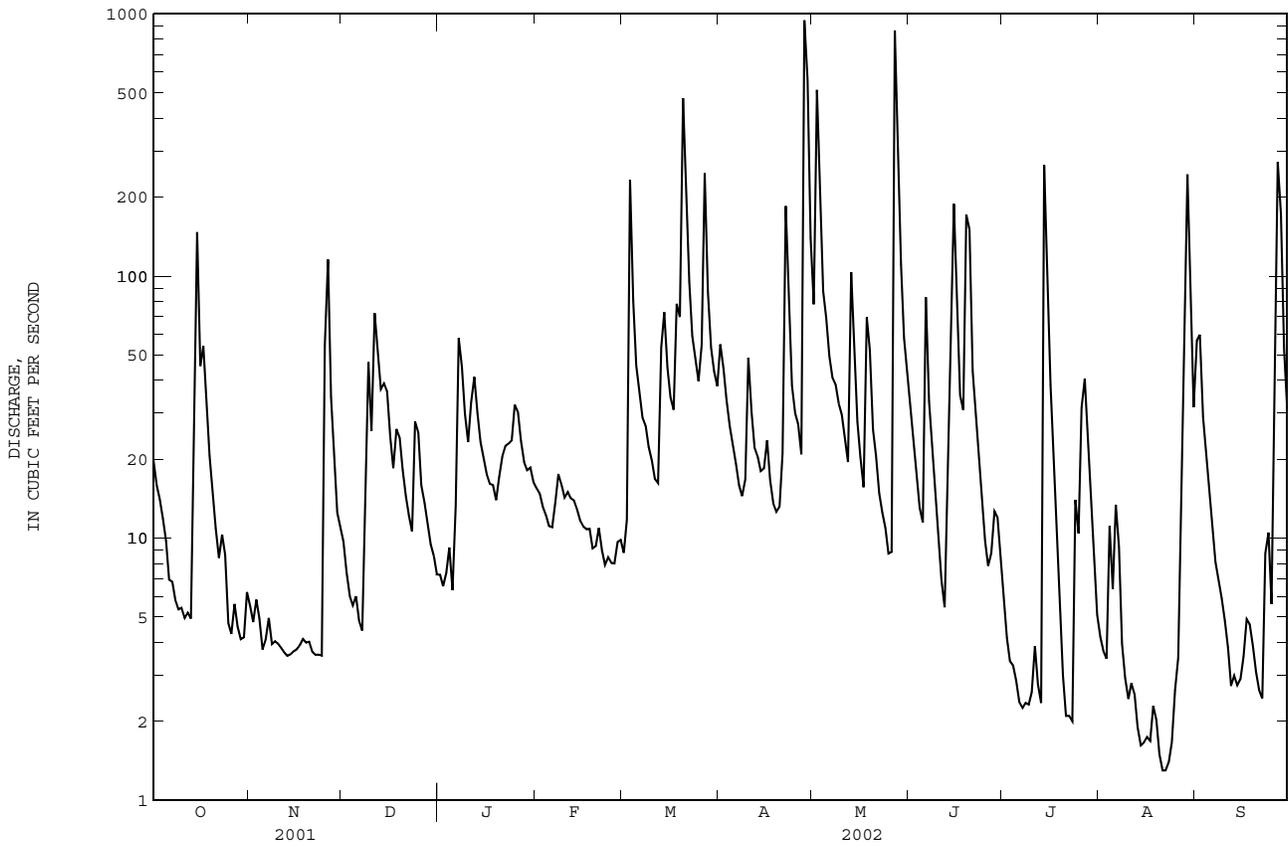
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	16.7	11.6	20.4	22.0	11.8	77.4	84.4	102	40.1	21.2	17.2	28.7
MAX	16.7	11.6	20.4	22.0	11.8	77.4	84.4	102	40.1	21.2	17.2	28.7
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	16.7	11.6	20.4	22.0	11.8	77.4	84.4	102	40.1	21.2	17.2	28.7
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2002 WATER YEAR

ANNUAL TOTAL	13844.8
ANNUAL MEAN	37.9
HIGHEST DAILY MEAN	947 Apr 28
LOWEST DAILY MEAN	1.3 aAug 21
ANNUAL SEVEN-DAY MINIMUM	1.6 Aug 17
MAXIMUM PEAK FLOW	2050 Apr 28
MAXIMUM PEAK STAGE	7.77 Apr 28
INSTANTANEOUS LOW FLOW	1.3 bAug 20
ANNUAL RUNOFF (CFSM)	0.50
ANNUAL RUNOFF (INCHES)	6.77
10 PERCENT EXCEEDS	71
50 PERCENT EXCEEDS	14
90 PERCENT EXCEEDS	3.2

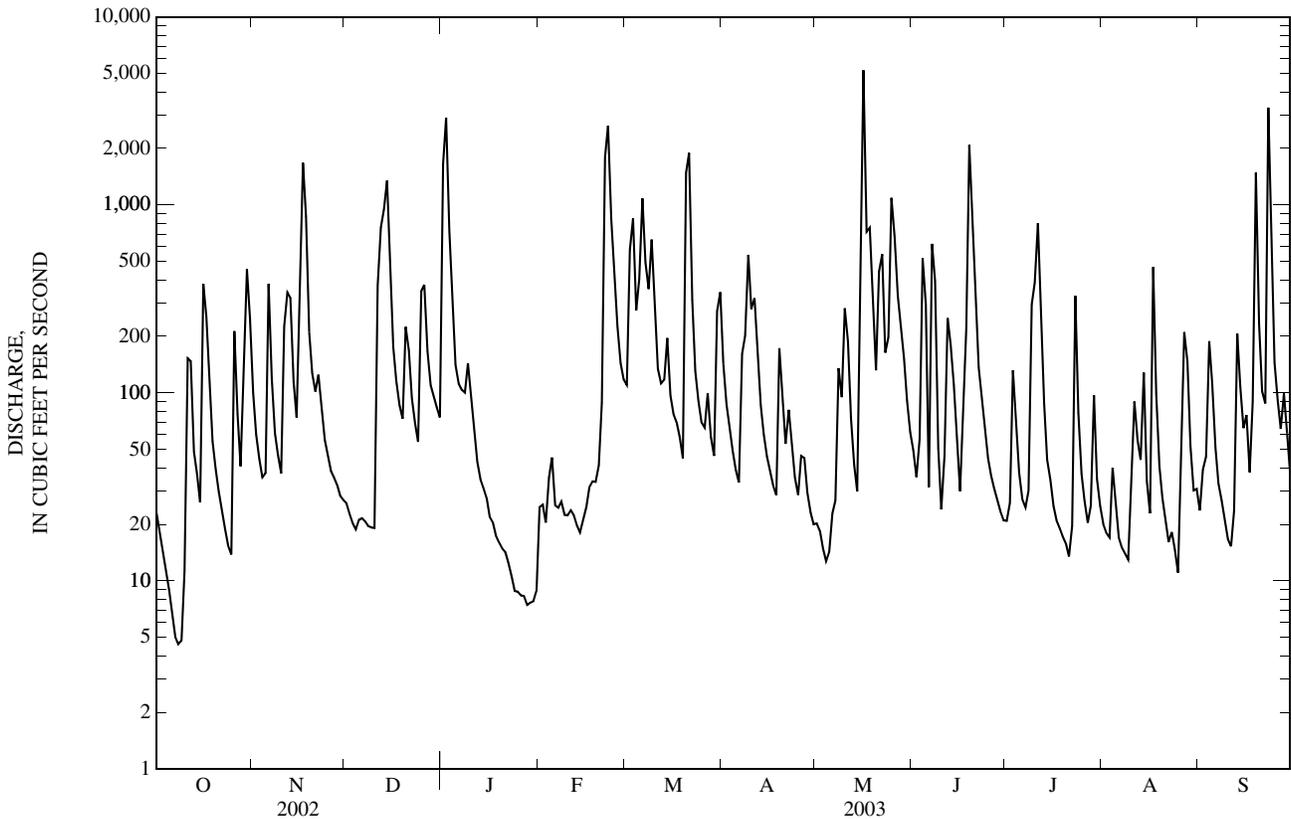
- a Also Aug. 22, 2002.
- b Also Aug. 21, 22, 2002.
- e Estimated.



01644280 BROAD RUN NEAR LEESBURG, VA—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2002 - 2003	
ANNUAL TOTAL	27,266.5		74,438.3		121	
ANNUAL MEAN	74.7		204		204	
HIGHEST ANNUAL MEAN					37.9	2003
LOWEST ANNUAL MEAN					202	2002
HIGHEST DAILY MEAN	1,670	Nov 17	5,200	May 16	5,200	May 16, 2003
LOWEST DAILY MEAN	1.3	Aug 21	4.6	Oct 8	1.3	a Aug 21, 2002
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 17	7.4	Oct 4	1.6	Aug 17, 2002
MAXIMUM PEAK FLOW			6,890	May 16	6,890	May 16, 2003
MAXIMUM PEAK STAGE			10.43	May 16	10.43	May 16, 2003
INSTANTANEOUS LOW FLOW			4.2	Oct 7	1.3	b Aug 20, 2002
ANNUAL RUNOFF (CFSM)	0.98		2.68		1.59	
ANNUAL RUNOFF (INCHES)	13.33		36.39		21.59	
10 PERCENT EXCEEDS	179		460		273	
50 PERCENT EXCEEDS	22		58		28	
90 PERCENT EXCEEDS	3.2		17		4.6	

a Also Aug. 22, 2002.
 b Also Aug. 21, 22, 2002.
 c Estimated.



01644280 BROAD RUN NEAR LEESBURG, VA

LOCATION.--Lat 39°02'47", long 77°25'57", NAD83, Loudoun County, Hydrologic Unit 02070008, on right bank 15 ft upstream from State Highway 7 and 8 mi southeast of Leesburg.

DRAINAGE AREA.--76.1 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 193.65 ft NAVD of 1988.

REMARKS.--Records good except for period of doubtful or no gage-height record, Oct. 1 to Mar. 4, which is poor.

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	32	e106	e53	e66	e24	e45	361	39	103	9.5	23	5.7
2	e29	76	e50	e61	e26	e42	1,190	57	34	8.9	261	6.0
3	e27	58	e47	e64	e93	e40	938	358	21	8.0	285	5.5
4	e28	49	e45	e60	e148	e39	305	112	15	40	57	5.1
5	e25	295	e83	e57	e105	38	145	62	445	79	114	5.7
6	e23	1,600	e81	e52	e1,010	673	89	45	265	37	43	4.8
7	e19	463	e69	e47	e1,180	327	72	51	68	45	27	4.7
8	17	e140	e60	e42	e187	183	59	143	41	285	20	14
9	16	e95	e56	e39	e135	111	51	56	31	45	16	110
10	15	e76	e266	e38	e204	80	43	71	26	35	16	31
11	14	e60	e3,580	e38	e208	52	37	46	26	34	20	17
12	13	e103	e828	e37	e122	44	451	31	287	20	76	13
13	12	e130	e178	e36	e144	36	2,460	26	77	13	244	9.2
14	50	e83	e174	e30	e128	32	1,140	22	43	13	60	7.8
15	600	e65	e220	e30	e97	29	295	19	31	22	47	42
16	106	e52	e226	e31	e84	32	142	23	40	12	29	54
17	49	e41	e386	e29	e77	54	93	69	152	8.8	23	122
18	e35	e38	e289	e33	e74	40	72	32	286	8.1	18	1,170
19	e28	626	e153	e32	e70	44	59	29	71	7.3	16	248
20	e23	1,150	e118	e27	e77	43	50	22	35	6.7	14	73
21	e20	281	e92	e26	e74	37	52	20	25	6.0	12	45
22	e17	e160	e78	e27	e71	31	44	51	24	5.8	13	34
23	e15	e100	e71	e26	e69	27	52	27	77	112	11	26
24	e13	e79	e124	e25	e72	24	144	17	36	242	10	20
25	e12	e110	e116	e25	e66	27	52	15	22	53	11	18
26	18	e100	e105	e25	e60	28	225	47	18	31	e9.2	16
27	1,540	e82	e93	e25	e56	27	431	23	16	29	7.3	14
28	e850	e77	e83	e24	e52	30	107	28	13	508	6.3	717
29	e720	e205	e77	e24	e48	26	64	22	12	151	5.9	830
30	e390	e105	e76	e24	---	24	47	15	10	47	5.6	146
31	e145	---	e67	e24	---	24	---	17	---	29	5.4	---
TOTAL	4,901	6,605	7,944	1,124	4,761	2,289	9,270	1,595	2,350	1,951.1	1,505.7	3,814.5
MEAN	158	220	256	36.3	164	73.8	309	51.5	78.3	62.9	48.6	127
MAX	1,540	1,600	3,580	66	1,180	673	2,460	358	445	508	285	1,170
MIN	12	38	45	24	24	24	37	15	10	5.8	5.4	4.7
CFSM	2.08	2.89	3.37	0.48	2.16	0.97	4.06	0.68	1.03	0.83	0.64	1.67
IN.	2.40	3.23	3.88	0.55	2.33	1.12	4.53	0.78	1.15	0.95	0.74	1.86

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

MEAN	86.5	143	160	91.6	140	167	165	187	116	61.7	41.7	137
MAX	158	220	256	216	244	351	309	407	228	101	59.5	254
(WY)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	16.7	11.6	20.4	22.0	11.8	73.8	84.4	51.5	40.1	21.2	17.2	28.7
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2004)	(2002)	(2004)	(2002)	(2002)	(2002)	(2002)

01644280 BROAD RUN NEAR LEESBURG, VA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	78,968.2		48,110.3		124	
ANNUAL MEAN	216		131		204	
HIGHEST ANNUAL MEAN					204	
LOWEST ANNUAL MEAN					37.9	
HIGHEST DAILY MEAN	5,200	May 16	3,580	Dec 11	5,200	May 16, 2003
LOWEST DAILY MEAN	7.5	Jan 28	4.7	Sep 7	1.3	aAug 21, 2002
ANNUAL SEVEN-DAY MINIMUM	8.2	Jan 24	5.4	Sep 1	1.6	Aug 17, 2002
MAXIMUM PEAK FLOW			4,490	Dec 11	6,890	May 16, 2003
MAXIMUM PEAK STAGE			9.18	Dec 11	10.43	May 16, 2003
INSTANTANEOUS LOW FLOW			3.9	bSep 6	1.3	cAug 20, 2002
ANNUAL RUNOFF (CFSM)	2.84		1.73		1.64	
ANNUAL RUNOFF (INCHES)	38.60		23.52		22.22	
10 PERCENT EXCEEDS	526		285		276	
50 PERCENT EXCEEDS	64		45		34	
90 PERCENT EXCEEDS	17		13		6.0	

a Also Aug. 22, 2002.
 b Also Sept. 7, 2004.
 c Also Aug. 21, 22, 2002.
 e Estimated.

