

POTOMAC RIVER BASIN

01632082 LINVILLE CREEK AT BROADWAY, VA

LOCATION.--Lat 38°36'24", long 78°48'13", Rockingham County, Hydrologic Unit 02070006, on left bank at Linville, 170 ft downstream from bridge on State Highway 1421, and 1.1 mi upstream from mouth.

DRAINAGE AREA.--45.5 mi².

PERIOD OF RECORD.--August 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,029.90 ft above sea level.

REMARKS.--Records good except for period of no gage-height record, Dec. 31 to Jan. 28, which is fair. Maximum discharge, 17,800 ft³/s, from rating curve extended above 1,860 ft³/s on basis of slope-area measurement at gage height 12.58 ft. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location by the Virginia Department of Environmental Quality - Water Division.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 30	0215	*712	*3.97	No other peak greater than base discharge.			
Minimum discharge, 1.0 ft ³ /s, Aug. 8, 13.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	6.8	6.0	e6.4	21	15	23	9.4	9.1	4.6	3.3	4.6
2	6.6	7.0	5.8	e6.7	24	14	22	9.3	9.0	3.8	3.7	4.3
3	7.1	8.7	6.0	e9.3	22	14	20	9.3	8.3	3.5	2.6	4.2
4	7.5	8.3	6.0	e11	20	14	19	9.3	8.0	3.4	2.3	4.7
5	7.2	7.2	6.0	e9.1	19	13	18	9.7	7.9	3.0	2.7	92
6	7.4	7.2	6.0	e6.6	18	13	17	9.9	7.6	2.7	2.2	137
7	7.5	7.4	6.2	e6.6	17	12	16	10	7.6	3.1	2.2	78
8	11	7.4	8.7	e7.1	17	11	16	22	7.4	4.3	2.3	39
9	9.4	7.6	12	e20	16	12	16	15	7.1	2.8	2.8	29
10	8.4	7.6	7.9	e25	15	12	15	13	6.8	2.4	2.3	26
11	8.0	8.2	7.0	e18	14	12	16	12	7.3	3.8	1.7	20
12	7.7	7.7	6.7	e29	14	13	15	12	6.8	3.9	2.6	17
13	7.6	7.9	9.9	e40	13	14	13	12	6.7	4.0	2.1	15
14	7.5	7.9	8.9	e31	13	18	13	20	6.6	3.0	4.1	14
15	6.8	7.9	7.3	e26	12	27	13	19	6.6	3.8	3.5	15
16	6.9	7.4	7.5	e27	12	43	13	16	6.1	3.4	3.5	41
17	6.9	7.3	7.5	e24	12	94	12	15	6.9	3.4	2.8	31
18	6.8	7.2	6.9	e28	28	91	11	16	6.4	2.7	2.5	23
19	7.0	7.2	6.4	e35	29	59	11	15	5.9	3.4	3.0	19
20	6.9	7.3	6.4	e32	26	46	11	13	6.5	3.0	5.8	18
21	6.7	7.3	6.5	e30	22	55	11	13	6.7	2.6	5.0	51
22	6.6	6.9	6.4	e37	20	81	11	14	6.4	3.5	4.4	54
23	6.7	6.9	6.1	e31	18	59	11	17	5.9	3.4	4.4	36
24	6.8	6.9	6.7	e81	18	50	12	16	5.4	3.7	4.3	28
25	6.9	6.7	6.2	e56	16	41	11	14	5.2	7.0	7.9	25
26	6.4	7.0	6.2	e40	16	36	11	12	5.1	4.2	11	21
27	6.4	6.2	6.2	e34	15	32	10	11	4.7	3.3	12	20
28	6.4	6.0	6.7	e30	16	30	10	11	4.5	3.4	9.5	37
29	6.5	6.0	6.9	27	---	27	10	10	4.4	5.8	6.8	47
30	6.6	6.0	6.2	24	---	24	9.7	9.9	4.4	4.1	5.3	284
31	6.8	---	e6.2	22	---	23	---	9.3	---	3.1	4.9	---
TOTAL	224.1	217.1	215.4	809.8	503	1005	416.7	404.1	197.3	112.1	133.5	1234.8
MEAN	7.23	7.24	6.95	26.1	18.0	32.4	13.9	13.0	6.58	3.62	4.31	41.2
MAX	11	8.7	12	81	29	94	23	22	9.1	7.0	12	284
MIN	6.4	6.0	5.8	6.4	12	11	9.7	9.3	4.4	2.4	1.7	4.2
CFSM	.16	.16	.15	.57	.39	.71	.31	.29	.14	.08	.09	.90
IN.	.18	.18	.18	.66	.41	.82	.34	.33	.16	.09	.11	1.01

POTOMAC RIVER BASIN

01632082 LINVILLE CREEK AT BROADWAY, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	23.9	30.7	33.2	63.6	54.1	75.9	50.0	38.3	23.2	18.1	25.6	35.6
MAX	108	144	115	213	195	206	135	91.0	49.6	68.5	138	275
(WY)	1991	1986	1997	1996	1998	1994	1993	1989	1996	1995	1996	1996
MIN	6.66	7.24	6.95	9.75	10.1	17.1	11.5	12.9	6.58	3.62	4.31	5.21
(WY)	1989	1999	1999	1989	1989	1989	1995	1986	1999	1999	1999	1986

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1985 - 1999

ANNUAL TOTAL	20035.8	5472.9	
ANNUAL MEAN	54.9	15.0	39.5
HIGHEST ANNUAL MEAN			85.5
LOWEST ANNUAL MEAN			15.0
HIGHEST DAILY MEAN	640	Jan 8	284 Sep 30
LOWEST DAILY MEAN	5.8	Dec 2	1.7 Aug 11
ANNUAL SEVEN-DAY MINIMUM	6.0	aNov 28	2.3 Aug 7
INSTANTANEOUS PEAK FLOW			712 Sep 30
INSTANTANEOUS PEAK STAGE			3.97 Sep 30
INSTANTANEOUS LOW FLOW			1.0 bAug 8
ANNUAL RUNOFF (CFSM)	1.21	.33	.87
ANNUAL RUNOFF (INCHES)	16.38	4.47	11.78
10 PERCENT EXCEEDS	136	30	78
50 PERCENT EXCEEDS	21	8.7	19
90 PERCENT EXCEEDS	6.8	3.6	7.1

a Also Nov 29, 30, 1998.
 b Also Aug 13, 1999.
 e Estimated.

