

02032640 NORTH FORK RIVANNA RIVER NEAR EARLYSVILLE, VA

LOCATION.--Lat 38°09'48", long 78°25'30", Albemarle County, Hydrologic Unit 02080204, on right bank at downstream side of bridge on State Highway 606, 0.4 mi upstream from mouth of Jacobs Run, 1.9 mi downstream from mouth of Marsh Run, and 2.1 mi southeast of Advance Mills.

DRAINAGE AREA.--108 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 365 ft above sea level, from topographic map.

REMARKS.--Records good except those for periods of doubtful gage-height record, Oct. 15, 16, 19, 25, 26, 30, Nov. 13-20, 22-24, 29, 30, Dec. 3, 5, 6, Jul. 31 to Aug. 13, Sep. 12-15, and periods with ice effect, Jan. 1, 2, 6, which are fair. Maximum discharge, 30,100 ft<sup>3</sup>/s, from rating curve extended above 2,150 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow. Several measurements of water temperature were made during the year.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1992 reached a stage of 19.92 ft, from floodmark, by the Virginia Department of Highways.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan 24	1130	2,110	7.01	Sep 30	0400	*19,600	*20.13

Minimum discharge, 0.54 ft<sup>3</sup>/s, Aug 10.

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	4.9	13	17	e21	74	81	98	46	19	9.5	e4.0	4.9
2	4.4	13	17	e20	145	69	102	45	17	10	e4.7	4.2
3	4.4	17	e16	355	130	87	89	43	16	15	e3.5	3.9
4	5.3	20	17	194	108	183	84	44	15	16	e2.6	4.1
5	6.0	17	e16	91	93	124	81	43	14	11	e2.1	52
6	6.8	15	e15	e70	85	110	75	44	13	8.6	e1.7	483
7	8.7	15	18	57	82	103	73	45	12	8.2	e1.3	426
8	98	15	23	52	79	90	70	113	12	12	e1.1	112
9	50	15	81	50	70	91	72	83	11	8.4	e1.2	212
10	24	16	50	74	66	94	73	61	9.8	6.7	e.93	192
11	17	23	35	59	61	91	75	52	9.4	6.2	e.85	64
12	14	25	28	48	59	93	75	46	10	6.3	e.70	e42
13	13	e18	44	56	57	87	66	43	10	8.1	e.69	e32
14	12	e17	52	76	53	111	62	73	11	8.6	14	e28
15	e10	e16	39	191	50	483	63	69	12	8.0	40	e25
16	e10	e16	33	157	50	311	70	54	9.8	6.9	7.9	151
17	11	e15	29	106	50	225	61	49	11	5.9	5.4	99
18	11	e15	26	154	148	238	57	45	12	8.5	4.1	53
19	e10	e15	24	156	149	214	55	42	11	22	4.7	36
20	11	e16	23	114	118	181	55	38	9.9	11	13	28
21	11	17	23	92	100	212	54	34	11	8.2	9.4	68
22	11	e16	23	81	87	244	56	42	12	16	6.4	119
23	10	e15	22	196	77	205	56	64	10	14	5.0	68
24	11	e15	25	1270	73	182	75	53	8.5	10	4.5	46
25	e11	17	24	540	69	158	62	42	8.1	11	5.3	32
26	e11	19	23	268	66	136	58	34	9.0	8.8	6.9	24
27	12	19	22	179	63	121	55	29	8.8	5.9	22	22
28	12	18	23	138	75	110	52	26	9.5	5.2	11	212
29	12	e16	24	110	---	101	51	24	10	6.6	8.3	1470
30	e11	e16	24	92	---	92	49	22	9.8	9.4	6.9	7080
31	13	---	22	79	---	85	---	20	---	e6.3	5.4	---
TOTAL	456.5	500	858	5146	2337	4712	2024	1468	341.6	298.3	205.57	11193.1
MEAN	14.7	16.7	27.7	166	83.5	152	67.5	47.4	11.4	9.62	6.63	373
MAX	98	25	81	1270	149	483	102	113	19	22	40	7080
MIN	4.4	13	15	20	50	69	49	20	8.1	5.2	.69	3.9
CFSM	.14	.15	.26	1.53	.77	1.41	.62	.44	.11	.09	.06	3.45
IN.	.16	.17	.30	1.77	.80	1.62	.70	.50	.12	.10	.07	3.85

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	67.4	132	142	320	243	245	146	142	127	80.7	42.2	197
MAX	195	233	367	574	624	406	247	421	316	195	112	682
(WY)	1996	1998	1997	1996	1998	1994	1998	1998	1995	1995	1994	1996
MIN	14.7	16.7	27.7	143	80.1	127	60.1	47.4	11.4	9.62	6.63	7.80
(WY)	1999	1999	1999	1997	1995	1995	1995	1999	1999	1999	1999	1998

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1994 - 1999

ANNUAL TOTAL	70848.8	29540.07	
ANNUAL MEAN	194	80.9	156
HIGHEST ANNUAL MEAN			246
LOWEST ANNUAL MEAN			80.9
HIGHEST DAILY MEAN	4320	May 8	7080
LOWEST DAILY MEAN	3.7	Sep 7	.69
ANNUAL SEVEN-DAY MINIMUM	4.9	Sep 1	.97
INSTANTANEOUS PEAK FLOW			19600
INSTANTANEOUS PEAK STAGE			20.13
INSTANTANEOUS LOW FLOW			.54
ANNUAL RUNOFF (CFSM)	1.79	.75	1.45
ANNUAL RUNOFF (INCHES)	24.37	10.16	19.66
10 PERCENT EXCEEDS	435	132	304
50 PERCENT EXCEEDS	52	25	76
90 PERCENT EXCEEDS	8.9	6.5	14

a From floodmarks.  
e Estimated.

