

JAMES RIVER BASIN

02039500 APPOMATTOX RIVER AT FARMVILLE, VA

LOCATION.--Lat 37°18'25", long 78°23'20", Cumberland County, Hydrologic Unit 02080207, on left bank at downstream side of bridge on State Highway 45 at north town limits of Farmville and 1.1 mi downstream from Buffalo Creek.

DRAINAGE AREA.--303 mi².

PERIOD OF RECORD.--March 1926 to current year.

REVISED RECORDS.--WSP 972: 1927-37, 1938(M). WSP 1303: 1927(M). WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 281.93 ft above sea level. Prior to Nov. 29, 1928, nonrecording gage at same site and datum.

REMARKS.--Records good except those for period with ice effect, Jan. 6, and periods of doubtful gage-height record, Jun. 27, 28, and Aug. 25, which are fair. Maximum discharge, 33,100 ft³/s, from rating curve extended above 12,000 ft³/s on basis of contracted-opening measurement of peak flow. Diurnal fluctuation at low flow caused by Prince Edward Mill 0.2 mi upstream. 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 FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 25	1230	*3,970	*15.14	Sep 16	2000	1,910	11.90

Minimum discharge, 20 ft³/s, Aug 18-20.

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	63	74	83	118	201	268	175	113	85	91	57	29
2	61	73	82	113	297	226	405	104	81	95	158	27
3	58	81	81	388	423	196	309	98	79	95	96	25
4	58	98	81	776	304	217	242	95	78	75	61	38
5	62	99	82	403	248	227	215	93	75	62	48	172
6	66	89	82	e235	214	194	190	92	73	54	40	301
7	72	82	82	240	200	185	172	92	71	50	36	251
8	81	80	86	185	194	167	162	90	70	47	33	403
9	89	81	137	171	182	157	159	85	67	44	32	291
10	92	82	192	167	171	169	159	80	64	40	30	177
11	81	87	129	156	161	171	178	76	64	38	28	135
12	74	90	107	144	160	165	312	73	63	42	26	101
13	71	89	297	136	166	153	268	96	64	67	26	81
14	70	86	467	132	158	218	205	1300	72	107	26	69
15	68	85	250	223	148	1310	182	1080	66	116	25	117
16	67	87	170	434	144	1400	199	479	64	91	25	1360
17	66	86	137	292	144	676	182	284	66	69	23	1120
18	66	84	120	508	248	420	154	219	70	58	22	428
19	66	83	109	1240	468	314	138	184	65	51	21	234
20	65	82	104	524	309	257	132	160	61	45	25	163
21	65	84	101	329	240	258	128	141	63	41	26	132
22	63	85	99	252	203	372	122	134	68	40	26	129
23	62	83	99	222	179	321	119	154	66	40	29	122
24	63	83	119	1270	169	262	113	146	61	57	30	101
25	66	84	138	3270	164	241	107	132	56	155	e33	88
26	69	86	132	1080	159	221	104	118	55	101	108	81
27	69	87	121	553	154	200	104	111	e55	69	102	85
28	70	85	127	377	185	187	113	103	e54	54	73	161
29	70	85	137	292	---	172	130	98	66	47	52	376
30	72	84	138	242	---	162	126	94	82	43	39	1170
31	73	---	132	213	---	151	---	88	---	39	32	---
TOTAL	2138	2544	4221	14685	5993	9637	5304	6212	2024	2023	1388	7967
MEAN	69.0	84.8	136	474	214	311	177	200	67.5	65.3	44.8	266
MAX	92	99	467	3270	468	1400	405	1300	85	155	158	1360
MIN	58	73	81	113	144	151	104	73	54	38	21	25
CFSM	.23	.28	.45	1.56	.71	1.03	.58	.66	.22	.22	.15	.88
IN.	.26	.31	.52	1.80	.74	1.18	.65	.76	.25	.25	.17	.98

02039500 APPOMATTOX RIVER AT FARMVILLE, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	194	246	305	407	444	484	409	277	209	162	195	197
MAX	1190	1287	961	1430	1402	1518	1155	872	1866	518	1783	1140
(WY)	1972	1986	1997	1978	1979	1993	1983	1978	1972	1972	1940	1996
MIN	30.3	51.0	61.6	96.3	114	126	107	95.2	29.5	40.5	19.6	16.7
(WY)	1931	1932	1966	1966	1934	1981	1966	1969	1970	1966	1930	1968

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1926 - 1999	
ANNUAL TOTAL	165358		64136			
ANNUAL MEAN	453		176		294	
HIGHEST ANNUAL MEAN					584	
LOWEST ANNUAL MEAN					115	
HIGHEST DAILY MEAN	7470	Jan 29	3270	Jan 25	28000	Jun 22 1972
LOWEST DAILY MEAN	58	aSep 16	21	Aug 19	6.3	Oct 5 1968
ANNUAL SEVEN-DAY MINIMUM	59	Sep 12	24	bAug 14	8.1	Sep 30 1968
INSTANTANEOUS PEAK FLOW			3970		33100	Jun 22 1972
INSTANTANEOUS PEAK STAGE			15.14		c29.70	Jun 22 1972
INSTANTANEOUS LOW FLOW			20		dAug 18	Sep 25 1941
ANNUAL RUNOFF (CFSM)	1.50		.58		.97	
ANNUAL RUNOFF (INCHES)	20.30		7.87		13.19	
10 PERCENT EXCEEDS	983		306		530	
50 PERCENT EXCEEDS	185		101		167	
90 PERCENT EXCEEDS	68		46		62	

- a Also Sep 17, 18, 1998.
- b Also Aug 15, 1999.
- c From floodmarks.
- d Also Aug 19-20, 1999.
- e Estimated.

