

JAMES RIVER BASIN

02018000 CRAIG CREEK AT PARR, VA

LOCATION.--Lat 37°39'57", long 79°54'42", Botetourt County, Hydrologic Unit 02080201, on right bank 12 ft upstream from abandoned railway bridge, 700 ft downstream from Stony Run, 0.2 mi northeast of Horton, 0.4 mi northwest of Parr, and at mile 12.0.

DRAINAGE AREA.--329 mi².

PERIOD OF RECORD.--April 1925 to current year.

REVISED RECORDS.--WSP 852: 1937. WSP 892: 1935-36. WSP 1303: 1929-30(M), 1932-35(M), 1937-38(M). WSP 2104:

Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 992.50 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to June 7, 1937, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge, 58,500 ft³/s, from rating curve extended above 11,000 ft³/s on basis of slope-area measurement of peak flow. Minimum discharge, 20 ft³/s, probably occurred Dec. 21, 25, 1980, and Jan. 4, 1981, gage height, 3.20 ft, result of freezeup. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 6	1130	*2,100	*7.35	No peak greater than base discharge.			

Minimum discharge, 27 ft³/s, Aug 20, gage height, 3.24 ft.

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	39	47	57	58	191	180	248	259	111	53	55	46
2	38	48	55	63	272	187	273	255	103	51	49	43
3	38	52	55	81	694	195	267	245	97	49	44	41
4	39	54	55	109	605	377	253	233	92	47	43	40
5	41	55	55	112	456	486	245	217	86	45	41	62
6	42	57	55	97	355	414	233	203	81	44	39	1580
7	44	55	55	106	310	429	217	196	77	42	37	912
8	85	52	59	92	290	414	205	467	72	40	36	404
9	196	51	66	87	263	396	199	578	67	39	35	256
10	125	53	73	84	236	384	195	426	63	38	34	182
11	81	55	80	123	213	346	205	349	60	37	34	132
12	66	54	71	124	194	315	393	300	58	38	33	103
13	58	54	80	118	184	303	456	269	56	42	32	87
14	52	54	97	142	172	309	380	495	54	51	32	76
15	49	55	114	435	156	745	347	1070	52	60	33	70
16	47	54	94	745	145	1110	350	793	51	57	35	67
17	46	55	82	411	140	1250	333	615	54	53	33	63
18	47	54	75	308	168	1370	307	504	55	56	32	60
19	47	54	71	262	415	1140	283	447	56	60	30	55
20	46	53	67	223	393	875	268	458	54	54	29	54
21	45	53	65	190	333	769	281	409	52	47	35	54
22	43	53	63	166	288	1000	269	361	52	48	56	200
23	42	53	60	175	254	850	260	321	52	54	48	121
24	42	54	61	1050	229	705	260	296	50	57	40	87
25	44	54	61	1310	210	605	254	282	49	52	40	71
26	44	56	60	701	196	506	238	242	49	46	44	63
27	47	55	59	486	181	415	234	211	48	43	112	85
28	46	57	57	370	173	364	237	179	49	41	97	720
29	46	58	60	304	---	323	249	156	50	44	73	377
30	46	60	60	254	---	291	258	139	51	54	59	804
31	47	---	61	214	---	260	---	123	---	69	51	---
TOTAL	1718	1619	2083	9000	7716	17313	8197	11098	1901	1511	1391	6915
MEAN	55.4	54.0	67.2	290	276	558	273	358	63.4	48.7	44.9	230
MAX	196	60	114	1310	694	1370	456	1070	111	69	112	1580
MIN	38	47	55	58	140	180	195	123	48	37	29	40
CFSM	.17	.16	.20	.88	.84	1.70	.83	1.09	.19	.15	.14	.70
IN.	.19	.18	.24	1.02	.87	1.96	.93	1.25	.21	.17	.16	.78

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	189	280	388	563	664	796	652	458	268	136	161	143
MAX	1093	2112	1519	1642	1757	2116	2427	1202	1134	979	1290	974
(WY)	1938	1986	1949	1937	1998	1993	1987	1942	1972	1941	1940	1928
MIN	34.9	45.9	48.9	51.2	55.6	141	143	93.2	63.4	33.5	35.6	34.1
(WY)	1931	1931	1966	1956	1934	1988	1995	1930	1999	1966	1964	1968

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1925 - 1999

ANNUAL TOTAL	190479	70462										
ANNUAL MEAN	522	193								391		
HIGHEST ANNUAL MEAN										655		1973
LOWEST ANNUAL MEAN										185		1981
HIGHEST DAILY MEAN			7800	Mar 21		1580	Sep 6		21000		Nov 4	1985
LOWEST DAILY MEAN			38	Oct 2		29	Aug 20		25		Sep 4	1966
ANNUAL SEVEN-DAY MINIMUM			39	Sep 29		32	Aug 14		27		Aug 22	1964
INSTANTANEOUS PEAK FLOW						2100	Sep 6		58500		Nov 4	1985
INSTANTANEOUS PEAK STAGE						7.35	Sep 6		a24.76		Nov 4	1985
INSTANTANEOUS LOW FLOW						27	Aug 20		b20		cDec 21	1980
ANNUAL RUNOFF (CFSM)		1.59				.59			1.19			
ANNUAL RUNOFF (INCHES)		21.54				7.97			16.16			
10 PERCENT EXCEEDS			1320			431			868			
50 PERCENT EXCEEDS			106			77			182			
90 PERCENT EXCEEDS			43			42			49			

- a From floodmarks.
- b Result of freezeup.
- c Also probably occurred Dec 25, 1980, and Jan 4, 1981.

