

JAMES RIVER BASIN

02024000 MAURY RIVER NEAR BUENA VISTA, VA

LOCATION.--Lat 37°45'45", long 79°23'30", Rockbridge County, Hydrologic Unit 02080202, on right bank 0.5 mi downstream from South River and 2.8 mi northwest of Buena Vista.

DRAINAGE AREA.--646 mi².

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for some periods, published in WSP 1303. Prior to October 1945, published as North River near Buena Vista.

REVISED RECORDS.--WSP 952: 1940-41. WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 846.58 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Since 1966, some regulation at times by Lake Merriweather on Little Calfpasture River. Maximum discharge, 105,000 ft³/s, from rating curve extended above 17,000 ft³/s on basis of slope-area measurement of peak flow. Minimum discharge, 20 ft³/s, occurred during filling of a small reservoir 2 mi upstream. Unqualified minimum discharge, 37 ft³/s, Sep. 9, 1966. Minimum gage height, 0.98 ft, Jan. 5, 1981. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 18, 1936, reached a stage of about 22 ft, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 24	2030	*5,280	*6.88	No peak greater than base discharge.			

Minimum discharge, 77 ft³/s, Oct 2-3.

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	81	91	99	102	438	407	570	286	162	91	100	88
2	80	92	96	105	640	370	600	272	158	95	96	87
3	80	100	97	364	997	358	550	263	166	95	92	86
4	84	116	100	458	889	569	533	255	151	90	89	88
5	91	112	102	317	736	652	516	247	143	89	89	1260
6	94	102	105	288	625	631	489	244	137	87	89	1370
7	95	99	101	224	566	630	463	239	127	88	89	1110
8	166	98	121	196	567	590	435	683	123	95	88	658
9	206	97	171	240	536	572	421	1140	117	89	88	438
10	148	98	172	383	501	578	413	867	112	87	89	383
11	117	100	137	312	471	549	433	687	111	87	88	280
12	105	112	121	286	437	515	434	574	114	90	87	224
13	101	113	169	330	421	497	386	509	111	97	86	187
14	98	110	181	411	383	527	357	1520	111	98	87	165
15	97	106	161	962	347	828	360	1820	109	90	86	297
16	96	104	138	1260	324	1120	391	1280	103	89	86	552
17	97	104	128	797	315	1950	357	926	122	88	86	244
18	98	104	120	628	583	3690	332	716	128	87	86	206
19	98	106	117	669	1150	2820	316	600	112	87	85	188
20	98	100	113	646	983	1850	320	501	109	86	115	179
21	94	102	113	526	805	1660	317	424	109	87	107	310
22	91	100	110	445	676	2270	311	373	109	92	96	267
23	90	99	109	458	586	1900	297	377	102	91	90	205
24	92	102	117	2900	524	1520	289	370	96	103	90	170
25	94	101	114	3220	487	1260	273	322	92	157	94	150
26	94	112	110	1580	453	1060	265	280	92	127	100	139
27	93	113	106	1040	413	921	258	253	92	95	98	134
28	91	109	108	729	401	815	283	217	91	98	96	177
29	93	105	110	621	---	718	333	197	91	124	92	218
30	91	103	111	537	---	609	307	183	90	141	88	999
31	91	---	105	472	---	558	---	173	---	112	87	---
TOTAL	3144	3110	3762	21506	16254	32994	11609	16798	3490	3032	2839	10859
MEAN	101	104	121	694	580	1064	387	542	116	97.8	91.6	362
MAX	206	116	181	3220	1150	3690	600	1820	166	157	115	1370
MIN	80	91	96	102	315	358	258	173	90	86	85	86
CFSM	.16	.16	.19	1.07	.90	1.65	.60	.84	.18	.15	.14	.56
IN.	.18	.18	.22	1.24	.94	1.90	.67	.97	.20	.17	.16	.63

02024000 MAURY RIVER NEAR BUENA VISTA, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	362	470	694	917	1074	1373	1055	819	547	277	323	292
MAX	1997	3400	2430	2891	3140	3187	3672	2373	2647	1351	3060	2087
(WY)	1980	1986	1949	1998	1998	1993	1987	1989	1995	1972	1969	1996
MIN	72.1	83.3	76.4	100	273	240	276	224	116	53.7	63.4	75.2
(WY)	1942	1966	1966	1981	1977	1981	1995	1941	1999	1966	1964	1963

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1939 - 1999	
ANNUAL TOTAL	382604		129397			
ANNUAL MEAN	1048		355		682	
HIGHEST ANNUAL MEAN					1181	
LOWEST ANNUAL MEAN					269	
HIGHEST DAILY MEAN	14300	Jan 8	3690	Mar 18	56000	Aug 20 1969
LOWEST DAILY MEAN	80	aOct 2	80	aOct 2	22	Oct 10 1941
ANNUAL SEVEN-DAY MINIMUM	84	Sep 29	86	Aug 13	40	Sep 7 1966
INSTANTANEOUS PEAK FLOW			5280		105000	
INSTANTANEOUS PEAK STAGE			6.88		31.23	
INSTANTANEOUS LOW FLOW			a77		20	
ANNUAL RUNOFF (CFSM)	1.62		.55		1.06	
ANNUAL RUNOFF (INCHES)	22.03		7.45		14.34	
10 PERCENT EXCEEDS	2810		760		1510	
50 PERCENT EXCEEDS	353		157		346	
90 PERCENT EXCEEDS	97		89		106	

a Also Oct 3, 1998.

