

JAMES RIVER BASIN

02021500 MAURY RIVER AT ROCKBRIDGE BATHS, VA

LOCATION.--Lat 37°54'26", long 79°25'20", Rockbridge County, Hydrologic Unit 02080202, on right bank at Rockbridge Baths, 1,200 ft upstream from bridge on State Highway 39, and 1.0 mi upstream from Hays Creek.

DRAINAGE AREA.--329 mi².

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for some periods, published in WSP 1303. Prior to October 1945, published as North River at Rockbridge Baths.

REVISED RECORDS.--WSP 972: 1929-40, 1941(M). WSP 1002: 1930(m). WSP 1553: 1931(m).

GAGE.--Water-stage recorder. Datum of gage is 1,100.33 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except for period of doubtful gage-height record, Nov. 19-25, and for period with ice effect, Jan. 4-6, which are fair. Since 1966, some regulation at times by Lake Merriweather on Little Calfpasture River. National Weather Service gage-height telemeter at station. Maximum discharge, 87,700 ft³/s, from rating curve extended above 16,000 ft³/s on basis of slope-area measurement at peak flow. Minimum gage height, 0.79 ft, Sep. 10, 1966. 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 4,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 24	1645	*4,260	*6.26	No peak greater than base discharge.			

Minimum discharge, 14 ft³/s, Aug 7, 13, 18-19, gage height, 0.84 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	19	24	27	35	203	197	255	124	61	27	25	20
2	18	25	27	33	410	175	273	119	57	28	23	19
3	18	29	27	133	664	174	249	113	56	27	20	19
4	20	31	27	e190	553	407	247	110	53	24	18	20
5	21	31	28	e145	431	418	234	107	48	23	17	83
6	22	28	28	e110	341	402	215	103	45	21	17	349
7	24	26	29	96	305	396	203	102	43	25	16	477
8	60	26	33	85	328	351	189	692	39	23	16	256
9	63	27	56	99	292	340	182	854	37	20	18	160
10	39	26	49	116	271	337	179	612	35	20	16	113
11	31	32	39	149	246	306	179	455	34	20	16	86
12	28	31	35	133	228	288	181	348	35	22	15	69
13	26	30	43	166	219	272	159	305	34	25	14	59
14	25	29	53	265	194	297	146	1410	33	24	16	134
15	24	29	46	831	176	525	143	1330	32	23	17	309
16	24	27	41	802	164	778	151	929	30	21	17	254
17	24	27	38	472	158	1550	141	671	33	21	16	85
18	25	27	36	361	441	2860	132	517	32	21	15	84
19	25	e27	35	431	761	1930	126	414	30	20	14	79
20	23	e24	35	376	623	1250	126	326	31	19	21	67
21	22	e25	34	294	495	1130	123	260	31	20	22	53
22	22	e24	34	259	391	1430	123	215	30	20	21	49
23	21	e23	33	267	315	1170	118	209	30	21	20	38
24	21	e25	34	2730	269	931	116	190	28	23	19	33
25	23	e25	34	1900	241	763	111	157	27	37	22	31
26	24	30	33	925	219	632	107	137	27	25	21	29
27	25	30	32	596	197	539	105	114	27	20	21	30
28	26	29	32	409	195	455	121	91	27	20	21	42
29	24	29	34	334	---	354	147	82	25	40	21	50
30	24	28	33	269	---	277	133	73	24	33	19	441
31	23	---	33	224	---	243	---	67	---	26	20	---
TOTAL	814	824	1098	13235	9330	21177	4914	11236	1074	739	574	3538
MEAN	26.3	27.5	35.4	427	333	683	164	362	35.8	23.8	18.5	118
MAX	63	32	56	2730	761	2860	273	1410	61	40	25	477
MIN	18	23	27	33	158	174	105	67	24	19	14	19
CFSM	.08	.08	.11	1.30	1.01	2.08	.50	1.10	.11	.07	.06	.36
IN.	.09	.09	.12	1.50	1.05	2.39	.56	1.27	.12	.08	.06	.40

02021500 MAURY RIVER AT ROCKBRIDGE BATHS, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	194	272	404	558	622	850	618	470	271	119	137	135
MAX	1254	2689	1450	1895	1530	2017	2245	1463	1374	807	1016	1388
(WY)	1980	1986	1974	1998	1998	1936	1987	1989	1995	1972	1969	1996
MIN	16.5	24.1	26.6	32.3	50.9	117	122	81.0	34.7	14.6	14.9	16.1
(WY)	1931	1931	1966	1981	1934	1981	1995	1930	1964	1966	1964	1930

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1929 - 1999

ANNUAL TOTAL	200870	68553	
ANNUAL MEAN	550	188	386
HIGHEST ANNUAL MEAN			685
LOWEST ANNUAL MEAN			157
HIGHEST DAILY MEAN	13100	Jan 8	2860
LOWEST DAILY MEAN	18	Oct 2	14
ANNUAL SEVEN-DAY MINIMUM	19	Sep 28	16
INSTANTANEOUS PEAK FLOW			4260
INSTANTANEOUS PEAK STAGE			6.26
INSTANTANEOUS LOW FLOW			14
ANNUAL RUNOFF (CFSM)	1.67	.57	1.17
ANNUAL RUNOFF (INCHES)	22.71	7.75	15.95
10 PERCENT EXCEEDS	1540	447	900
50 PERCENT EXCEEDS	99	43	155
90 PERCENT EXCEEDS	22	20	30

- a Also Aug 19, 1999.
- b From floodmarks.
- c Also Aug 13, 18-19, 1999.
- e Estimated.

