02024000 MAURY RIVER NEAR BUENA VISTA, VA

James Basin
Maury Subbasin

LOCATION.--Lat 37°45′45″, long 79°23′30″ referenced to North American Datum of 1927, Rockbridge County, VA, Hydrologic Unit 02080202, on right bank 0.5 mi downstream from South River and 2.8 mi northwest of Buena Vista.

DRAINAGE AREA.--647 mi^2.

SURFACE-WATER RECORDS

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. OFR 2006-1308: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 846.58 ft NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since 1966, some regulation at times by Lake Merriweather on Little Calfpasture River. Maximum discharge, 105,000 ft^3/s, from rating curve extended above 17,000 ft^3/s on basis of slope-area measurement of peak flow. 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,200 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 7	1345	7,140	7.53
Nov 17	0145	*16,600	*11.59
Jan 8	1830	6,630	7.26
Mar 2	1815	11,400	9.56
Mar 17	0030	8,840	8.39
Apr 16	0130	11,900	9.78

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	193	881	e729	2,450	e361	1,170	1,150	e705	457	413	139	191
2	168	844	675	2,600	e370	7,570	953	e625	1,140	308	126	138
3	149	740	e601	1,880	e367	5,340	803	781	717	259	114	100
4	138	632	e534	1,480	e358	2,850	708	966	1,140	230	107	89
5	130	564	500	1,560	e344	2,000	630	836	694	214	104	84
6	3,010	516	467	2,400	e347	1,570	569	782	465	202	103	79
7	5,920	494	444	2,100	e353	1,280	530	681	353	186	106	76
8	4,160	837	416	5,130	e323	1,060	494	e614	296	173	110	79
9	2,100	1,490	390	4,850	313	809	454	e569	268	162	102	120
10	1,300	1,290	380	2,990	319	715	428	e531	244	156	95	102
11	921	1,030	368	2,120	293	650	420	e520	227	183	92	113
12	1,010	1,060	356	1,680	290	584	994	e705	212	183	89	138
13	763	1,020	352	1,410	300	540	1,500	e709	209	166	83	127
14	625	936	350	1,210	1,770	510	1,200	e613	222	153	77	111
15	534	845	342	1,050	1,150	502	5,070	e537	223	147	74	121
16	467	7,700	328	933	752	3,340	8,130	e475	215	137	75	118
17	520	10,100	313	810	625	6,420	3,600	e460	204	154	73	103
18	1,070	3,760	300	713	574	3,440	2,210	445	190	250	75	95
19	1,170	2,430	e291	659	457	2,310	1,810	e407	178	246	73	90
20	990	1,800	e283	612	463	1,690	1,470	e369	183	196	78	86
21	830	1,400	e275	577	642	1,560	1,210	e345	187	172	78	84
22	691	1,180	331	581	728	1,420	1,030	340	184	149	81	84
23	601	1,920	2,320	583	749	1,280	899	468	174	133	77	81
24	530	2,090	2,100	554	708	1,120	805	434	162	126	75	76
25	475	1,640	1,480	513	726	977	740	376	218	129	96	73
26	430	1,350	1,740	463	861	857	673	348	347	132	164	71
27	428	1,130	1,570	450	979	781	745	328	321	128	166	67
28	1,880	973	1,260	437	1,120	754	902	299	301	126	145	74
29	2,600	855	1,040	414	---	2,240	878	286	307	125	123	87
30	1,550	763	881	390	---	2,300	770	267	848	151	110	79
31	1,110	---	778	374	---	1,490	---	239	---	161	129	---
Total	36,463	52,270	22,194	43,973	16,642	59,129	41,775	16,060	10,886	5,650	3,139	2,936
Mean	1,176	1,742	716	1,418	594	1,907	1,392	518	363	182	101	97.9
Max	5,920	10,100	2,320	5,130	1,770	7,570	8,130	966	1,140	413	166	191
Min	130	494	275	374	290	502	420	239	162	125	73	67
Cfsm	1.82	2.69	1.11	2.19	0.92	2.95	2.15	0.80	0.56	0.28	0.16	0.15
In.	2.10	3.01	1.28	2.53	0.96	3.40	2.40	0.92	0.63	0.32	0.18	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	365	518	715	897	1,037	1,330	1,066	804	565	281	309	321
Max	1,997	3,400	2,430	2,891	3,140	3,187	3,672	2,373	2,647	1,351	3,060	2,087
(WY)	(1980)	(1986)	(1949)	(1998)	(1998)	(1993)	(1987)	(1989)	(1995)	(1972)	(1969)	(1996)
Min	66.0	79.6	76.4	100	111	240	276	224	81.1	53.7	47.9	59.2
(WY)	(2002)	(2002)	(1966)	(1981)	(2002)	(1981)	(1995)	(1941)	(2002)	(1966)	(2002)	(2002)

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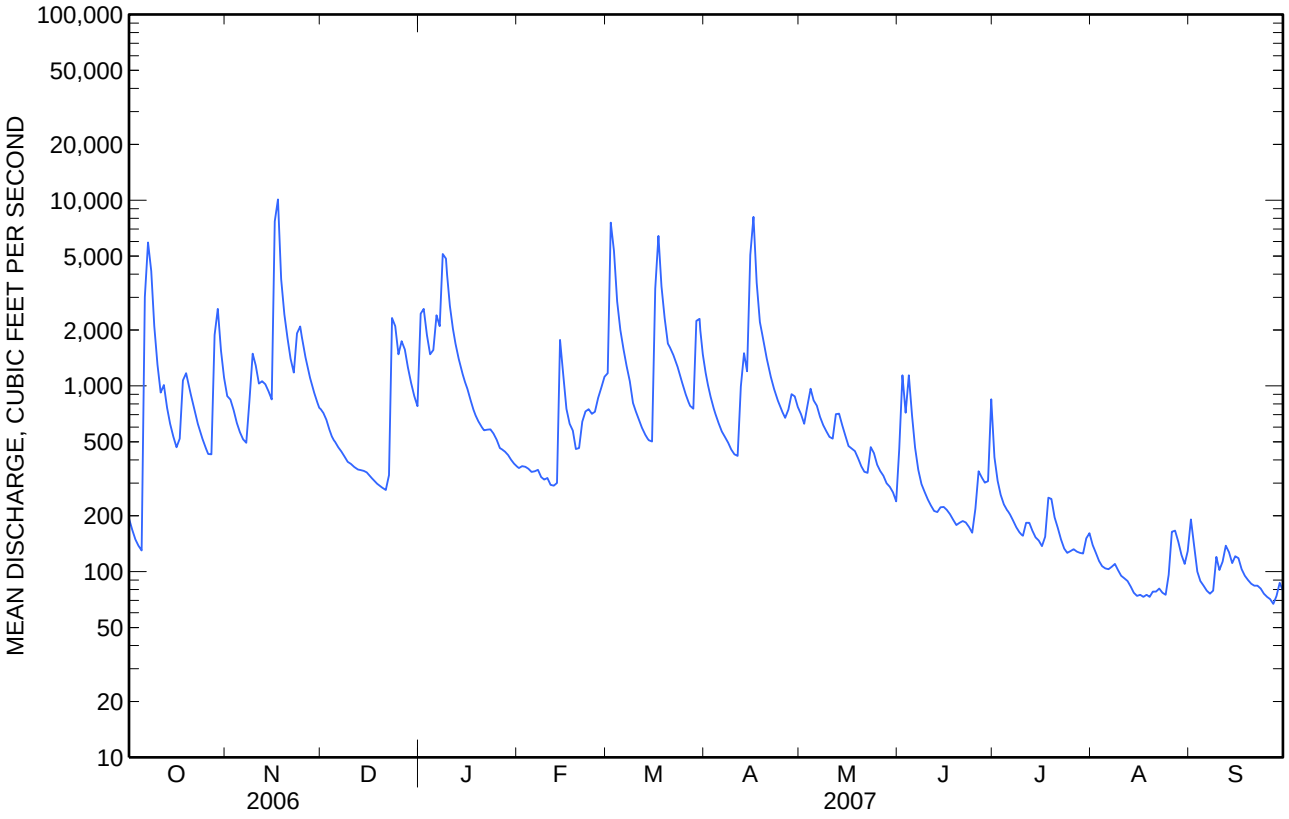
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1939 - 2007	
Annual total	275,906		311,117			
Annual mean	756		852		682	
Highest annual mean					1,205	2003
Lowest annual mean					210	2002
Highest daily mean	11,600	Jun 26	10,100	Nov 17	56,000	Aug 20, 1969
Lowest daily mean	70	Aug 28	67	Sep 27	22	Oct 10, 1941
Annual seven-day minimum	77	Aug 22	75	Aug 14	40	Sep 8, 2002
Maximum peak flow			16,600	Nov 17	105,000	Aug 20, 1969
Maximum peak stage			11.59	Nov 17	31.23	Aug 20, 1969
Instantaneous low flow			66	Sep 27	[a]20	Oct 10, 1941
Annual runoff (cfsm)	1.17		1.32		1.05	
Annual runoff (inches)	15.86		17.89		14.32	
10 percent exceeds	1,490		1,880		1,510	
50 percent exceeds	400		475		348	
90 percent exceeds	129		102		105	

[a] Occurred during filling of small reservoir 2 mi upstream, otherwise, minimum discharge, 36 ft³/s, Sept. 12-14, 2002.