

02040000 APPOMATTOX RIVER AT MATTOAX, VA

LOCATION.--Lat 37°25'17", long 77°51'33", Amelia County, Hydrologic Unit 02080207, on right bank 75 ft upstream from Norfolk Southern Railway bridge at Mattoax, 0.3 mi upstream from Skinquarter Creek, and 3.7 mi upstream from Flat Creek.

DRAINAGE AREA.--726 mi².

PERIOD OF RECORD.--August 1900 to December 1905, March 1926 to current year.

REVISED RECORDS.--WSP 892: 1938. WSP 972: 1928, 1932, 1934-38. WSP 1303: 1901(M). WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 174.51 ft above sea level. August 1900 to December 1905, non-recording gage at same site, different datum. March 1926 to October 1936, nonrecording gage at same site and datum.

REMARKS.--Records good except those for periods of doubtful gage-height record, Jan. 27 to Feb. 1, Apr. 14, 15, Aug. 22, 23, and Sep 18-22, which are fair. National Weather Service gage-height telemeter at station. Maximum discharge, 35,000 ft³/s, from rating curve extended above 20,000 ft³/s on basis of records for stations at Farmville and near Petersburg. Minimum gage height, 3.52 ft, Oct. 2, 1930. 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 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 16	2200	*4,720	*19.53	No other peak greater than base discharge.			
Minimum discharge, 36 ft ³ /s, Aug 19.							

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	140	94	144	261	e438	358	357	275	168	112	71	57
2	127	96	143	246	438	444	495	257	156	120	69	51
3	122	104	143	404	559	413	735	239	148	123	90	46
4	121	117	147	1080	714	431	625	229	139	121	142	47
5	118	127	146	1350	575	460	495	221	133	117	100	285
6	116	138	143	799	467	422	434	217	128	95	75	807
7	120	138	145	521	410	382	396	213	123	95	64	612
8	129	128	147	480	381	347	363	208	117	172	58	418
9	143	123	184	413	364	323	347	201	112	133	54	541
10	154	119	220	373	345	311	352	191	108	93	51	502
11	152	121	259	349	324	315	348	181	102	154	48	329
12	137	124	245	333	311	315	382	172	98	88	46	231
13	121	129	300	313	315	302	835	166	100	103	44	182
14	112	135	535	299	315	301	e750	531	99	119	43	146
15	107	134	660	307	299	1380	e450	2100	100	149	44	132
16	105	130	445	362	283	2840	476	2310	107	177	45	2930
17	114	130	317	554	275	3010	470	1000	106	159	43	4340
18	112	130	260	550	301	1820	428	591	106	127	39	e3400
19	110	131	231	841	464	959	374	438	105	101	38	e2600
20	108	129	207	1570	705	720	339	360	107	89	67	e700
21	104	133	194	934	554	630	320	311	104	79	52	e470
22	101	139	189	620	428	1200	306	277	99	76	e46	e400
23	101	148	183	500	365	1270	295	293	99	70	e40	368
24	98	149	201	1150	327	900	293	347	101	68	53	315
25	93	145	224	2780	305	691	275	306	97	90	73	266
26	89	148	254	3000	297	588	260	266	90	128	108	224
27	88	148	263	e2150	289	510	250	236	85	180	121	201
28	91	149	254	e1600	289	452	247	216	85	126	150	233
29	93	149	256	e700	---	413	254	200	98	96	128	322
30	92	147	269	e540	---	380	275	186	121	84	89	778
31	92	---	273	e470	---	356	---	176	---	76	68	---
TOTAL	3510	3932	7581	25849	11137	23243	12226	12914	3341	3520	2159	21933
MEAN	113	131	245	834	398	750	408	417	111	114	69.6	731
MAX	154	149	660	3000	714	3010	835	2310	168	180	150	4340
MIN	88	94	143	246	275	301	247	166	85	68	38	46
CFSM	.16	.18	.34	1.15	.55	1.03	.56	.57	.15	.16	.10	1.01
IN.	.18	.20	.39	1.32	.57	1.19	.63	.66	.17	.18	.11	1.12

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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	471	542	739	1026	1139	1242	1058	667	483	374	427	398
MAX	3932	2728	2620	3650	3605	3566	2975	1889	4369	1918	4566	2294
(WY)	1972	1986	1994	1978	1998	1993	1983	1978	1972	1938	1940	1975
MIN	32.7	107	123	207	248	309	273	208	95.0	56.5	35.6	30.0
(WY)	1931	1931	1966	1966	1931	1981	1966	1926	1970	1966	1930	1932

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	FOR 1998 WATER YEAR	FOR 1999 WATER YEAR	FOR 1998 WATER YEAR	FOR 1999 WATER YEAR	WATER YEARS 1926 - 1999
ANNUAL TOTAL	370837	131345					
ANNUAL MEAN	1016	360					714
HIGHEST ANNUAL MEAN							1553
LOWEST ANNUAL MEAN							285
HIGHEST DAILY MEAN	10200	Mar 23	4340	Sep 17	e34300	Aug 18	1940
LOWEST DAILY MEAN	79	Sep 15	38	Aug 19	13	Oct 2	1930
ANNUAL SEVEN-DAY MINIMUM	83	Sep 10	42	Aug 13	16	Aug 28	1932
INSTANTANEOUS PEAK FLOW			4720	Sep 16	35000	Aug 18	1940
INSTANTANEOUS PEAK STAGE			19.53	Sep 16	a35.30	Aug 18	1940
INSTANTANEOUS LOW FLOW			36	Aug 19	11	Oct 2	1930
ANNUAL RUNOFF (CFSM)	1.40		.50				.98
ANNUAL RUNOFF (INCHES)	19.00		6.73				13.36
10 PERCENT EXCEEDS	3440		695				1600
50 PERCENT EXCEEDS	313		207				384
90 PERCENT EXCEEDS	108		88				116

a From floodmark in gage house.
e Estimated.

