

RAPPAHANNOCK RIVER BASIN

01664000 RAPPAHANNOCK RIVER AT REMINGTON, VA

LOCATION.--Lat 38°31'50", long 77°48'50", Fauquier County, Hydrologic Unit 02080103, on left bank 80 ft upstream from bridge on alternate U.S. Highway 29, at Remington, 0.3 mi upstream from Tinpot Run, 0.4 mi downstream from Ruffans Run, and 2.5 mi downstream from Hazel River.

DRAINAGE AREA.--620 mi².

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WSP 1171: 1944. WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 252.53 ft above sea level. Prior to Nov. 21, 1951, nonrecording gage at bridge 80 ft downstream at same datum.

REMARKS.--Records good except for period with ice effect, Jan. 7, which is fair. National Weather Service gage-height telemeter at station. Maximum discharge, 90,000 ft³/s, from rating curve extended above 43,000 ft³/s on basis of slope-area measurement of peak flow. Minimum gage height, 2.31 ft, Sep. 13, 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 OUTSIDE PERIOD OF RECORD.--Maximum flood since at least 1828, that of Oct. 16, 1942.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 30	2245	*18,200	*19.11	No other peak greater than base discharge.			

Minimum discharge, 3.9 ft³/s, Aug 15, gage height, 2.28 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	20	49	64	59	373	428	401	236	90	37	23	15
2	16	54	63	70	482	376	491	225	82	35	17	13
3	14	64	60	270	671	347	446	218	77	40	14	13
4	15	70	60	1070	505	681	418	217	73	48	12	12
5	14	76	59	428	434	694	564	218	67	45	10	14
6	14	68	62	192	391	556	470	215	61	34	9.2	562
7	16	60	68	e130	376	530	417	219	58	28	8.1	747
8	54	58	67	123	371	466	390	323	57	24	8.4	465
9	320	59	178	156	347	439	381	481	55	20	8.0	218
10	144	64	234	255	324	476	482	302	49	18	7.3	620
11	76	74	130	211	307	473	472	233	46	16	6.7	382
12	51	69	93	166	298	493	510	204	45	16	6.5	165
13	42	81	93	246	322	546	463	192	50	16	6.4	101
14	37	77	130	429	297	633	406	184	50	16	5.4	73
15	36	70	126	788	272	1530	381	181	49	15	5.1	59
16	32	66	101	1020	264	1570	396	175	47	15	10	291
17	30	63	87	515	265	1180	382	162	46	14	8.1	1250
18	31	62	78	554	532	1140	350	155	42	16	7.1	529
19	36	61	73	971	810	1070	331	149	45	18	5.3	292
20	39	60	68	576	549	878	321	143	53	15	9.5	198
21	40	68	67	412	457	826	319	133	63	182	33	469
22	39	66	66	842	396	1170	339	126	72	164	31	868
23	38	65	64	762	350	930	340	197	63	86	20	528
24	38	63	65	2660	344	806	335	331	53	63	15	328
25	36	64	67	2450	332	733	326	262	46	47	12	235
26	41	69	61	1190	327	641	297	184	39	33	17	179
27	43	72	61	840	313	570	285	147	35	23	53	145
28	50	72	72	664	337	523	266	127	33	20	105	336
29	45	70	69	541	---	483	256	115	37	46	47	925
30	49	67	75	459	---	443	249	107	40	42	26	11400
31	48	---	66	407	---	405	---	98	---	31	20	---
TOTAL	1504	1981	2627	19456	11046	22036	11484	6259	1623	1223	566.1	21432
MEAN	48.5	66.0	84.7	628	394	711	383	202	54.1	39.5	18.3	714
MAX	320	81	234	2660	810	1570	564	481	90	182	105	11400
MIN	14	49	59	59	264	347	249	98	33	14	5.1	12
CFSM	.08	.11	.14	1.01	.64	1.15	.62	.33	.09	.06	.03	1.15
IN.	.09	.12	.16	1.17	.66	1.32	.69	.38	.10	.07	.03	1.29

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	489	578	717	868	1014	1200	1045	834	591	338	367	367
MAX	4895	2575	2172	2480	3496	3751	3784	2177	3520	974	2926	2815
(WY)	1943	1986	1951	1998	1998	1993	1983	1989	1972	1949	1955	1996
MIN	27.3	61.8	61.1	78.3	212	292	248	198	54.1	30.1	13.2	15.4
(WY)	1987	1966	1966	1966	1989	1981	1981	1977	1999	1966	1966	1985

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1943 - 1999
ANNUAL TOTAL	392022	101237.1	
ANNUAL MEAN	1074	277	699
HIGHEST ANNUAL MEAN			1231
LOWEST ANNUAL MEAN			251
HIGHEST DAILY MEAN	14200	Mar 21	64000
LOWEST DAILY MEAN	14	aOct 3	2.9
ANNUAL SEVEN-DAY MINIMUM	16	Oct 1	3.2
INSTANTANEOUS PEAK FLOW			18200
INSTANTANEOUS PEAK STAGE			19.11
INSTANTANEOUS LOW FLOW			3.9
ANNUAL RUNOFF (CFSM)	1.73	.45	1.13
ANNUAL RUNOFF (INCHES)	23.52	6.07	15.32
10 PERCENT EXCEEDS	2500	566	1410
50 PERCENT EXCEEDS	387	98	420
90 PERCENT EXCEEDS	28	16	72

a Also Oct 5-6, 1998.
 b From floodmarks.
 e Estimated.

