

CHOWAN RIVER BASIN

02051500 MEHERRIN RIVER NEAR LAWRENCEVILLE, VA

LOCATION.--Lat 36°43'00", long 77°49'55", Brunswick County, Hydrologic Unit 03010204, on right bank 50 ft upstream from Gholson Bridge on State Highway 715, 0.6 mi upstream from Allen Creek, and 3.0 mi southeast of Lawrenceville.

DRAINAGE AREA.--552 mi².

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 972: 1932(M), 1935. WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 136.56 ft above sea level. Prior to Nov. 17, 1931, nonrecording gage at same site and datum.

REMARKS.--Records good except those for periods of doubtful or no gage-height record, May 9-18, and Sep. 16-19, which are fair. Maximum discharge, 38,000 ft³/s, from rating curve extended above 13,000 ft³/s on basis of velocity-area studies and records for Nottoway River near Stony Creek. Minimum gage height, 0.72 ft, Sept. 23, 24, 1932. 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 4	1330	5,000	16.49	Sep 7	0345	9,190	23.19
Jan 26	0030	5,210	16.91	aSep 17	Unknown	*16,200	*29.97
Apr 13	0730	5,660	17.78				

a Probably occurred.

Minimum discharge, 24 ft³/s, Oct 3-4, gage height, 1.47 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	28	59	70	245	305	243	309	646	107	131	54	102
2	27	60	70	196	333	240	997	477	101	110	328	100
3	25	63	74	2110	506	237	978	391	97	102	216	98
4	29	72	68	4780	543	260	588	348	92	77	87	121
5	61	73	68	1540	432	328	593	322	88	64	61	2960
6	64	67	68	539	355	293	533	308	86	56	51	6490
7	60	66	70	393	315	253	436	296	84	97	46	8100
8	64	66	70	365	313	225	378	283	80	110	41	1930
9	88	66	106	309	305	213	356	e275	77	70	38	779
10	79	66	189	283	280	216	591	e265	74	57	36	636
11	66	67	165	252	257	216	1460	e250	69	66	34	399
12	65	68	142	237	249	213	4520	e235	66	79	32	237
13	63	71	358	227	268	204	4710	e220	67	76	31	199
14	62	75	998	222	294	232	1080	e420	72	227	35	176
15	e59	75	653	285	269	2290	746	e1100	77	465	257	214
16	58	74	303	459	242	2740	1080	e550	105	334	88	e8500
17	55	71	216	502	230	1170	1200	e370	142	173	63	e15400
18	55	69	173	385	261	700	726	e315	115	111	46	e12000
19	55	68	132	459	353	521	560	280	96	87	37	e7000
20	56	69	112	716	449	424	484	241	87	76	32	831
21	54	70	101	448	356	489	436	208	97	74	32	596
22	53	69	94	346	294	2270	402	187	105	73	32	2330
23	49	68	91	300	255	1500	384	175	99	61	31	3140
24	50	68	151	1210	235	770	369	165	89	57	29	840
25	52	70	473	4600	227	574	344	152	80	103	29	561
26	55	70	519	3240	226	481	327	141	75	141	40	457
27	55	70	327	840	222	415	317	138	73	137	1510	580
28	57	73	276	587	222	372	312	133	77	88	1730	1030
29	59	70	319	474	---	338	332	126	76	72	255	1480
30	59	70	361	395	---	312	484	119	69	67	150	1510
31	59	---	313	341	---	285	---	114	---	52	112	---
TOTAL	1721	2063	7130	27285	8596	19024	26032	9250	2622	3493	5563	78796
MEAN	55.5	68.8	230	880	307	614	868	298	87.4	113	179	2627
MAX	88	75	998	4780	543	2740	4710	1100	142	465	1730	15400
MIN	25	59	68	196	222	204	309	114	66	52	29	98
CFSM	.10	.12	.42	1.59	.56	1.11	1.57	.54	.16	.20	.33	4.76
IN.	.12	.14	.48	1.84	.58	1.28	1.75	.62	.18	.24	.37	5.31

02051500 MEHERRIN RIVER NEAR LAWRENCEVILLE, 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	303	376	470	737	835	923	751	457	314	313	294	277
MAX	2266	2853	1340	2391	1904	2707	2067	1571	1555	2358	4199	2627
(WY)	1972	1986	1997	1936	1998	1998	1987	1958	1938	1945	1940	1999
MIN	17.1	44.1	64.6	88.8	175	190	162	128	87.4	42.8	33.0	9.70
(WY)	1931	1934	1966	1934	1931	1981	1966	1942	1999	1932	1995	1954

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1929 - 1999	
ANNUAL TOTAL	255578		191575			
ANNUAL MEAN	700		525		503	
HIGHEST ANNUAL MEAN					916	
LOWEST ANNUAL MEAN					202	
HIGHEST DAILY MEAN	e13500		Mar 21		e15400	
LOWEST DAILY MEAN	25		Oct 3		25	
ANNUAL SEVEN-DAY MINIMUM	30		Sep 28		32	
INSTANTANEOUS PEAK FLOW					16200	
INSTANTANEOUS PEAK STAGE					c29.97	
INSTANTANEOUS LOW FLOW					24	
ANNUAL RUNOFF (CFSM)	1.27		.95		.91	
ANNUAL RUNOFF (INCHES)	17.22		12.91		12.38	
10 PERCENT EXCEEDS	1340		895		974	
50 PERCENT EXCEEDS	230		213		251	
90 PERCENT EXCEEDS	56		57		66	

- a Also Oct 8, 1954.
- b Probably occurred Sep 17, 1999.
- c From floodmarks.
- e Estimated.

