

CHOWAN RIVER BASIN

02044500 NOTTOWAY RIVER NEAR RAWLINGS, VA

LOCATION.--Lat 36°59'00", long 77°48'00", Brunswick County, Hydrologic Unit 03010201, on right bank at downstream side of bridge on State Highway 612 at Harpers Bridge, 0.1 mi upstream from Beaver Pond Creek, and 2.6 mi northwest of Rawlings.

DRAINAGE AREA.--309 mi².

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 184.88 ft above sea level.

REMARKS.--Records good except for period of no gage-height record, Jan. 21 to Feb. 2, which is fair. Maximum discharge, 29,900 ft³/s, from rating curve extended above 16,000 ft³/s on basis of slope-area measurement of peak flow. Minimum gage height, 1.83 ft, Oct. 15, 1954. Several measurements of water temperature were made during the year. Water-quality records for some periods have been collected at this location.

COOPERATION.--Records were provided by the Virginia Department of Environmental Quality - Water Division.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1940 reached a stage of 20.8 ft, discharge, about 19,000 ft³/s, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 17	1530	*7,850	*13.82	No other peak greater than base discharge.			

Minimum discharge, 5.3 ft³/s, Aug 12.

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	32	30	56	137	e170	124	163	306	60	66	30	27
2	34	31	58	111	e201	118	335	222	58	57	28	22
3	31	35	54	654	260	112	440	178	53	54	25	19
4	33	47	51	1410	268	135	306	160	51	47	20	69
5	53	54	50	1040	217	197	259	148	46	39	16	1890
6	66	53	50	413	178	192	261	140	45	34	14	2140
7	62	49	51	257	158	153	220	136	44	32	12	860
8	55	47	52	202	160	128	185	131	45	35	9.6	471
9	64	46	73	171	150	113	169	120	44	35	8.9	407
10	61	46	112	149	139	116	196	108	40	34	7.3	304
11	54	50	99	127	126	117	546	98	36	28	5.8	181
12	44	64	70	112	122	108	1820	92	35	28	5.6	117
13	37	59	187	104	135	99	2280	90	38	41	7.1	86
14	34	56	605	114	140	113	839	340	49	89	8.1	69
15	31	56	395	223	124	524	474	977	65	143	14	82
16	28	55	202	293	114	1340	679	828	103	116	27	4060
17	26	52	139	230	109	1170	711	419	88	73	26	6550
18	25	50	102	249	135	526	477	276	70	54	18	3610
19	27	47	77	390	186	349	347	217	60	45	14	720
20	26	48	68	341	212	262	283	182	55	38	11	376
21	26	50	64	e270	176	290	244	158	63	32	8.5	267
22	25	48	61	e170	147	698	221	136	76	29	8.0	860
23	26	48	59	e150	123	785	204	121	73	28	9.5	1230
24	25	50	82	e740	112	502	180	111	61	28	9.5	547
25	28	50	181	e1500	110	362	159	99	53	80	8.8	325
26	30	53	218	e980	111	288	148	87	48	120	14	227
27	31	60	162	e620	107	240	144	85	45	81	174	229
28	32	60	149	e399	110	205	148	76	47	54	427	361
29	31	59	168	e337	---	178	192	72	48	41	121	342
30	30	57	187	e249	---	161	288	69	54	34	56	411
31	29	---	167	e199	---	147	---	63	---	31	36	---
TOTAL	1136	1510	4049	12341	4300	9852	12918	6245	1653	1646	1179.7	26859
MEAN	36.6	50.3	131	398	154	318	431	201	55.1	53.1	38.1	895
MAX	66	64	605	1500	268	1340	2280	977	103	143	427	6550
MIN	25	30	50	104	107	99	144	63	35	28	5.6	19
CFSM	.12	.16	.42	1.29	.50	1.03	1.39	.65	.18	.17	.12	2.90
IN.	.14	.18	.49	1.49	.52	1.19	1.56	.75	.20	.20	.14	3.23

02044500 NOTTOWAY RIVER NEAR RAWLINGS, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	228	247	294	422	496	559	466	302	208	152	130	167
MAX	2024	1560	893	1289	1248	1350	1201	893	1359	965	650	1436
(WY)	1973	1986	1958	1978	1979	1998	1987	1958	1972	1975	1955	1979
MIN	13.0	50.3	65.0	95.0	123	126	124	98.3	55.1	25.2	8.60	3.62
(WY)	1964	1999	1966	1966	1968	1981	1966	1991	1999	1966	1963	1954

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1951 - 1999
ANNUAL TOTAL	136571	83688.7	
ANNUAL MEAN	374	229	305
HIGHEST ANNUAL MEAN			619
LOWEST ANNUAL MEAN			144
HIGHEST DAILY MEAN	9140	Mar 20	6550
LOWEST DAILY MEAN	22	aSep 16	5.6
ANNUAL SEVEN-DAY MINIMUM	24	Sep 12	7.5
INSTANTANEOUS PEAK FLOW			7850
INSTANTANEOUS PEAK STAGE			13.82
INSTANTANEOUS LOW FLOW			5.3
ANNUAL RUNOFF (CFSM)	1.21		.74
ANNUAL RUNOFF (INCHES)	16.44		10.08
10 PERCENT EXCEEDS	713		452
50 PERCENT EXCEEDS	139		103
90 PERCENT EXCEEDS	31		28

a Also Sep 17, 1998.
 b Also Oct 15, 1954.
 e Estimated.

