

02109500 WACCAMAW RIVER AT FREELAND, NC

LOCATION.--Lat 34°05'43", long 78°32'55", Brunswick County, Hydrologic Unit 03040206, on left bank 150 ft downstream of New Britton bridge on State Highway 130, 1 mi southwest of Freeland, 7 mi downstream of Juniper Creek, and 117 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--680 mi².

PERIOD OF RECORD.--July 1939 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 15.52 ft above NGVD of 1929. Prior to July 15, 1943, nonrecording gage 150 ft upstream at same datum. Auxiliary nonrecording gage 3.3 mi downstream of base gage Oct. 7, 1949, to July 14, 1952. Since July 15, 1952, auxiliary water-stage recorder at same site and datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Sept. 9, 19, 28, and Oct. 4-14, 1954.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	e1.0	e2.0	e6.2	68	157	245	18	e6.6	e4.5	9.2	184
2	26	e1.0	e2.0	e8.0	65	145	233	18	e6.2	e3.4	14	221
3	24	e1.0	e1.8	e10	63	203	221	17	e5.8	e3.0	12	241
4	21	e0.90	e1.8	e12	61	295	210	16	e5.4	e2.6	12	230
5	21	e0.90	e1.8	e13	56	345	196	16	e5.2	e2.2	11	202
6	18	e0.90	e1.8	e20	53	374	183	16	e5.0	e2.6	12	171
7	16	e0.90	e1.6	e22	74	417	170	15	e4.8	e3.0	11	139
8	e15	e0.80	e1.6	e23	171	489	157	14	e4.6	e2.4	9.3	116
9	e13	e0.80	e1.4	e24	232	569	140	14	e4.6	e1.8	7.8	101
10	e12	e0.80	e1.4	e26	251	633	123	14	e4.4	e1.5	6.3	89
11	e10	e0.80	e3.0	e30	261	635	115	19	e4.4	e1.1	5.1	78
12	e9.0	e0.70	e16	e32	265	624	112	31	e4.3	e0.80	4.2	68
13	e9.0	e0.60	e14	35	263	621	108	38	e4.2	e0.90	3.5	56
14	e8.0	e0.50	e12	39	256	662	105	34	e6.0	e1.2	3.2	78
15	e8.0	e0.60	e11	44	248	673	100	28	e8.0	e2.0	2.9	240
16	e7.0	e0.66	e10	49	241	673	96	24	e10	e1.2	3.3	326
17	e6.0	e0.60	e9.0	50	234	646	90	19	9.5	e1.0	3.4	358
18	e6.0	e0.58	e8.8	48	226	600	83	18	8.1	1.1	5.3	351
19	e5.0	e0.54	e8.0	48	215	544	78	16	8.9	1.1	5.3	344
20	e4.8	e0.50	e7.0	50	204	490	71	14	7.7	0.92	5.7	322
21	e4.0	e0.46	e6.8	51	196	438	65	14	6.6	0.98	5.3	290
22	e3.6	e0.48	e7.0	51	199	402	58	13	7.2	1.1	5.1	264
23	e3.0	e0.50	e7.0	52	200	368	50	11	8.6	1.1	5.1	244
24	e2.8	e0.90	e7.0	55	199	339	42	10	14	1.7	4.7	251
25	e2.6	e3.0	e7.0	56	196	316	37	9.7	13	2.4	4.0	281
26	e2.2	e2.6	e7.0	58	193	298	33	8.7	11	3.4	3.7	307
27	e2.0	e2.4	e7.0	61	186	288	32	8.1	9.2	4.0	4.6	329
28	e1.8	e2.2	e7.0	64	173	285	30	7.6	7.8	4.3	e8.4	334
29	e1.6	e2.0	e6.8	71	---	282	27	7.0	6.4	4.5	e36	329
30	e1.4	e2.0	e6.2	74	---	270	23	e6.8	5.1	4.3	77	317
31	e1.0	---	e6.0	69	---	257	---	e6.6	---	4.3	146	---
TOTAL	292.8	31.62	190.8	1251.2	5049	13338	3233	501.5	212.6	70.40	446.4	6861
MEAN	9.445	1.054	6.155	40.36	180.3	430.3	107.8	16.18	7.087	2.271	14.40	228.7
MAX	28	3.0	16	74	265	673	245	38	14	4.5	146	358
MIN	1.0	0.46	1.4	6.2	53	145	23	6.6	4.2	0.80	2.9	56
CFSM	0.01	0.00	0.01	0.06	0.27	0.63	0.16	0.02	0.01	0.00	0.02	0.34
IN.	0.02	0.00	0.01	0.07	0.28	0.73	0.18	0.03	0.01	0.00	0.02	0.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY)

	MEAN	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	523.5	344.7	479.5	1033	1370	1421	953.2	370.9	306.5	501.7	630.3	834.1
MAX	5778	2332	3080	3722	5574	5319	2895	3586	1474	3040	2740	8449
(WY)	2000	1978	1949	1993	1998	1983	1973	1999	1969	1961	1981	1999
MIN	1.14	0.54	3.53	20.6	44.6	219	108	16.2	5.51	2.27	7.59	0.31
(WY)	1941	1955	1955	1955	1941	1955	2002	2002	1952	2002	1954	1954

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1939 - 2002

ANNUAL TOTAL	116615.22	31478.32		
ANNUAL MEAN	319.5	86.24	728.0	
HIGHEST ANNUAL MEAN			1572	1999
LOWEST ANNUAL MEAN			86.2	2002
HIGHEST DAILY MEAN	2890	Mar 26	30600	Sep 21 1999
LOWEST DAILY MEAN	0.46	Nov 21	0.10	Aug 30 1954
ANNUAL SEVEN-DAY MINIMUM	0.52	Nov 17	0.10	Oct 4 1954
MAXIMUM PEAK FLOW			681	Mar 16 31200
MAXIMUM PEAK STAGE			10.10	Mar 15 19.30
INSTANTANEOUS LOW FLOW			NOT DETERMINED	0.10* Aug 30 1954
ANNUAL RUNOFF (CFSM)	0.47		0.13	1.07
ANNUAL RUNOFF (INCHES)	6.38		1.72	14.55
10 PERCENT EXCEEDS	749		283	1900
50 PERCENT EXCEEDS	150		13	350
90 PERCENT EXCEEDS	1.9		1.2	26

e Estimated.

* See REMARKS.

02109500 WACCAMAW RIVER AT FREELAND, NC--Continued

