

02109500 WACCAMAW RIVER AT FREELAND, NC

LOCATION.--Lat 34°05'42", long 78°32'54", 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	452	1,520	379	907	694	2,170	275	206	56	11	32	2,820
2	405	1,630	357	818	701	2,140	261	222	48	12	30	2,850
3	355	1,670	333	757	712	2,100	243	271	39	11	77	2,720
4	308	1,640	315	706	733	2,070	228	376	37	15	114	2,600
5	263	1,600	323	661	761	2,030	212	457	33	57	114	2,430
6	227	1,540	340	623	777	e1,990	196	502	31	83	122	2,250
7	196	1,480	361	587	779	e1,900	182	497	30	65	139	2,120
8	213	e1,400	371	549	776	e1,800	166	452	52	41	122	e2,000
9	405	e1,300	375	516	763	e1,650	151	403	57	30	96	e2,020
10	527	e1,280	384	493	747	1,560	138	364	50	24	73	e2,100
11	e600	1,190	446	477	731	1,450	124	331	46	19	53	e2,600
12	e700	1,100	528	459	735	1,330	114	306	39	17	44	e3,200
13	e720	1,020	592	438	794	1,210	116	284	33	18	341	e3,400
14	e640	931	677	421	909	1,080	144	265	28	16	700	3,240
15	492	828	830	402	1,180	957	165	246	24	14	1,290	2,980
16	440	748	1,050	381	1,470	870	173	228	20	12	2,070	2,800
17	389	677	e1,250	361	1,780	815	165	212	18	9.6	2,610	2,610
18	359	615	1,510	342	2,180	784	152	195	17	8.6	3,030	2,460
19	345	568	1,640	326	2,450	750	138	175	16	8.3	3,420	2,260
20	329	557	1,750	310	2,610	711	133	152	14	8.1	3,600	2,030
21	308	553	1,800	295	2,680	677	161	131	13	7.8	3,560	1,810
22	282	546	1,780	280	2,650	638	207	118	12	8.0	3,350	1,630
23	256	534	1,720	266	2,560	597	242	103	12	7.5	3,080	1,500
24	232	520	1,660	253	2,410	549	264	89	10	7.5	2,810	1,380
25	219	497	1,590	242	2,240	501	275	75	8.8	31	2,600	1,260
26	217	471	1,520	251	2,110	449	271	63	8.2	69	2,480	1,100
27	222	445	1,430	356	2,080	405	262	52	8.1	48	2,480	1,010
28	238	429	1,340	488	2,090	373	258	45	9.9	37	2,410	932
29	562	413	1,240	579	2,150	341	244	38	10	29	2,510	864
30	932	397	1,110	632	---	312	218	35	10	26	2,650	819
31	1,290	---	1,000	677	---	291	---	53	---	24	2,660	---
TOTAL	13,123	28,099	30,001	14,853	43,252	34,500	5,878	6,946	790.0	774.4	48,667	63,795
MEAN	423	937	968	479	1,491	1,113	196	224	26.3	25.0	1,570	2,126
MAX	1,290	1,670	1,800	907	2,680	2,170	275	502	57	83	3,600	3,400
MIN	196	397	315	242	694	291	114	35	8.1	7.5	30	819
CFSM	0.62	1.38	1.42	0.70	2.19	1.64	0.29	0.33	0.04	0.04	2.31	3.13
IN.	0.72	1.54	1.64	0.81	2.37	1.89	0.32	0.38	0.04	0.04	2.66	3.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	516	353	485	1,015	1,360	1,425	966	374	307	500	657	848
MAX	5,778	2,332	3,080	3,722	5,574	5,319	2,895	3,586	1,474	3,040	2,740	8,449
(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)

02109500 WACCAMAW RIVER AT FREELAND, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL TOTAL	364,036		290,678.4		731	
ANNUAL MEAN	997		794		86.2	
HIGHEST ANNUAL MEAN					1,572	1999
LOWEST ANNUAL MEAN					86.2	2002
HIGHEST DAILY MEAN	4,310	Apr 14	3,600	Aug 20	30,600	Sep 21, 1999
LOWEST DAILY MEAN	153	Sep 17	7.5	Jul 23	0.10	Aug 30, 1954
ANNUAL SEVEN-DAY MINIMUM	213	Sep 12	8.0	Jul 18	0.10	Oct 4, 1954
MAXIMUM PEAK FLOW			3,640	Aug 20	31,200	Sep 21, 1999
MAXIMUM PEAK STAGE			14.53	Aug 20	19.30	Sep 21, 1999
INSTANTANEOUS LOW FLOW			7.0	Jul 23	0.10*	Aug 30, 1954
ANNUAL RUNOFF (CFSM)	1.47		1.17		1.08	
ANNUAL RUNOFF (INCHES)	19.91		15.90		14.61	
10 PERCENT EXCEEDS	1,880		2,240		1,910	
50 PERCENT EXCEEDS	667		434		356	
90 PERCENT EXCEEDS	308		25		27	

* See REMARKS.
e Estimated.

