

WACCAMAW RIVER BASIN

02109500 WACCAMAW RIVER AT FREELAND, NC

LOCATION.--Lat 34°05'44", 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. Minimum discharge for current water year also occurred Nov. 6.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	98	267	500	242	998	2,320	1,300	e670	210	1,600	532
2	280	91	242	536	238	1,040	2,090	1,180	e645	226	1,670	460
3	259	83	224	577	233	1,080	1,880	1,040	e655	356	1,840	392
4	237	78	208	612	231	1,090	1,680	941	e685	458	2,030	335
5	214	74	201	644	228	1,090	1,540	873	736	496	2,110	311
6	194	77	199	660	225	1,080	1,420	856	767	498	2,090	336
7	174	96	195	660	250	1,090	1,370	863	771	482	1,990	386
8	154	100	188	655	325	1,160	1,450	857	767	466	1,830	421
9	135	96	180	644	366	1,260	1,690	842	762	436	1,700	419
10	120	93	176	629	408	1,320	2,530	835	757	399	1,590	389
11	113	96	198	610	483	1,350	3,500	845	734	371	1,550	347
12	124	136	224	588	523	1,350	4,120	865	703	353	1,500	298
13	122	180	243	563	543	1,330	4,300	872	663	370	1,440	254
14	111	230	319	538	554	1,310	4,310	849	618	439	1,390	220
15	107	263	371	509	545	1,340	4,300	803	582	531	1,410	196
16	127	281	395	489	537	1,430	4,290	743	536	608	1,430	177
17	144	317	405	460	564	1,520	4,160	682	497	647	1,510	153
18	146	416	400	436	626	1,570	3,880	619	456	664	1,600	193
19	142	479	393	414	687	1,580	3,510	560	428	671	1,640	528
20	134	489	391	393	728	1,700	3,120	513	444	722	1,600	641
21	124	503	395	372	773	2,490	2,730	473	540	778	1,570	660
22	118	497	395	357	805	3,250	2,430	427	636	841	1,500	654
23	117	483	392	347	839	3,840	2,150	e455	681	947	1,400	649
24	118	458	389	332	867	3,970	1,890	e480	674	1,180	1,310	667
25	121	428	421	312	900	3,860	1,690	e465	618	1,540	1,180	637
26	121	402	446	292	922	3,690	1,600	e455	537	1,980	1,030	612
27	116	376	464	275	937	3,510	1,540	e465	453	2,100	931	581
28	110	350	479	260	962	3,320	1,500	e495	364	2,110	850	551
29	107	324	485	247	---	3,080	1,450	e530	290	1,990	771	523
30	108	296	488	240	---	2,820	1,390	e570	235	1,800	692	495
31	105	---	488	244	---	2,560	---	e630	---	1,630	612	---
TOTAL	4,602	7,890	10,261	14,395	15,541	62,078	75,830	22,383	17,904	26,299	45,366	13,017
MEAN	148	263	331	464	555	2,003	2,528	722	597	848	1,463	434
MAX	300	503	488	660	962	3,970	4,310	1,300	771	2,110	2,110	667
MIN	105	74	176	240	225	998	1,370	427	235	210	612	153
CFSM	0.22	0.39	0.49	0.68	0.82	2.94	3.72	1.06	0.88	1.25	2.15	0.64
IN.	0.25	0.43	0.56	0.79	0.85	3.40	4.15	1.22	0.98	1.44	2.48	0.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2003, BY WATER YEAR (WY)

	518	343	477	1,024	1,358	1,430	978	376	311	507	643	828
MEAN	518	343	477	1,024	1,358	1,430	978	376	311	507	643	828
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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1939 - 2003	
ANNUAL TOTAL	53,716.10		315,566		730	
ANNUAL MEAN	147		865		1,572	
HIGHEST ANNUAL MEAN					1999	
LOWEST ANNUAL MEAN					86.2	
HIGHEST DAILY MEAN	673	Mar 15	4,310	Apr 14	30,600	Sep 21, 1999
LOWEST DAILY MEAN	0.80	Jul 12	74	Nov 5	0.10	Aug 30, 1954
ANNUAL SEVEN-DAY MINIMUM	1.0	Jul 17	85	Nov 1	0.10	Oct 4, 1954
MAXIMUM PEAK FLOW			4,340	Apr 13	31,200	Sep 21, 1999
MAXIMUM PEAK STAGE			14.85	Apr 13	19.30	Sep 21, 1999
INSTANTANEOUS LOW FLOW			72*	Nov 5	0.10*	Aug 30, 1954
ANNUAL RUNOFF (CFSM)	0.22		1.27		1.07	
ANNUAL RUNOFF (INCHES)	2.94		17.26		14.59	
10 PERCENT EXCEEDS	395		1,880		1,900	
50 PERCENT EXCEEDS	90		543		355	
90 PERCENT EXCEEDS	4.3		154		27	

e Estimated.
 * See REMARKS.

