

## LUMBER RIVER BASIN

## 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 mi<sup>2</sup>.

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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e815	176	277	398	370	389	974	124	342	170	118	408
2	e830	165	277	389	369	417	1,010	113	392	172	141	379
3	e830	153	272	380	365	426	1,030	103	483	154	152	331
4	e820	145	271	378	375	433	1,050	94	609	141	157	278
5	e805	141	283	378	395	446	1,060	e88	784	156	152	232
6	766	137	308	379	408	473	1,040	e152	972	169	141	196
7	735	132	337	376	410	509	1,000	e390	1,130	168	141	166
8	703	127	359	374	405	538	970	e505	1,230	166	158	143
9	668	121	376	373	398	559	936	e555	1,250	163	167	125
10	635	113	386	370	395	567	905	e562	1,210	159	166	107
11	597	108	393	365	392	565	867	e527	1,140	164	162	93
12	558	106	396	356	386	553	828	e456	1,050	158	152	83
13	521	114	392	347	375	526	782	e376	944	167	141	80
14	483	127	380	346	368	483	735	307	831	210	131	127
15	453	133	366	398	363	447	682	292	735	234	127	382
16	434	135	350	449	357	416	623	261	632	247	129	538
17	418	132	336	484	351	435	578	241	528	269	132	611
18	403	128	319	493	341	475	534	263	424	275	138	660
19	390	123	304	484	327	491	491	324	345	277	149	692
20	375	118	287	459	312	495	450	350	284	264	153	692
21	357	111	273	440	300	482	409	341	234	245	155	721
22	338	105	262	422	292	464	371	367	194	223	154	732
23	316	109	254	411	286	458	333	413	160	198	163	701
24	296	135	247	401	284	479	295	439	131	169	223	661
25	279	160	244	389	300	503	260	459	111	147	269	619
26	268	170	255	382	316	515	223	458	111	130	281	572
27	248	171	301	378	322	525	196	446	113	117	269	528
28	229	200	342	372	343	594	174	416	105	105	265	489
29	212	246	373	366	---	744	155	376	114	101	297	449
30	199	267	391	365	---	835	138	341	140	97	356	409
31	187	---	399	366	---	920	---	326	---	96	400	---
TOTAL	15,168	4,308	10,010	12,268	9,905	16,162	19,099	10,465	16,728	5,511	5,739	12,204
MEAN	489	144	323	396	354	521	637	338	558	178	185	407
MAX	830	267	399	493	410	920	1,060	562	1,250	277	400	732
MIN	187	105	244	346	284	389	138	88	105	96	118	80
CFSM	0.72	0.21	0.47	0.58	0.52	0.77	0.94	0.50	0.82	0.26	0.27	0.60
IN.	0.83	0.24	0.55	0.67	0.54	0.88	1.04	0.57	0.92	0.30	0.31	0.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

	516	349	482	1,006	1,345	1,412	961	373	310	495	650	841
MEAN	516	349	482	1,006	1,345	1,412	961	373	310	495	650	841
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	248,941.4		137,567		726	
ANNUAL MEAN	680		377		86.2	
HIGHEST ANNUAL MEAN					1,572	1999
LOWEST ANNUAL MEAN					86.2	2002
HIGHEST DAILY MEAN	3,600	Aug 20	1,250	Jun 9	30,600	Sep 21, 1999
LOWEST DAILY MEAN	7.5	Jul 23	80	Sep 13	0.10	Aug 30, 1954
ANNUAL SEVEN-DAY MINIMUM	8.0	Jul 18	108	Sep 8	0.10	Oct 4, 1954
MAXIMUM PEAK FLOW			1,280	Jun 9	31,200	Sep 21, 1999
MAXIMUM PEAK STAGE			11.88	Jun 9	19.30	Sep 21, 1999
INSTANTANEOUS LOW FLOW			75	Sep 13	0.10*	Aug 30, 1954
ANNUAL RUNOFF (CFSM)	1.00		0.554		1.07	
ANNUAL RUNOFF (INCHES)	13.62		7.53		14.50	
10 PERCENT EXCEEDS	2,240		725		1,890	
50 PERCENT EXCEEDS	302		351		356	
90 PERCENT EXCEEDS	25		129		27	

\* See REMARKS.

e Estimated

