

Water-Data Report 2007

02109500 WACCAMAW RIVER AT FREELAND, NC

Lower Pee Dee Basin
Waccamaw Subbasin

LOCATION.--Lat 34°05'42", long 78°32'54" referenced to North American Datum of 1983, Brunswick County, NC, Hydrologic Unit 03040206, on left bank, 150 ft downstream of New Britton bridge on North Carolina 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.

SURFACE-WATER RECORDS

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 October 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 poor. Minimum discharge for period of record also occurred Sept. 9, 19, 28, and Oct. 4-14, 1954.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	669	407	4,100	e4,400	1,580	651	223	531	15	e50	e2.8	5.5
2	602	393	3,420	e4,200	1,630	672	205	423	14	34	e1.9	4.3
3	545	366	2,850	e4,000	1,690	734	187	335	20	24	e1.7	3.6
4	488	334	2,450	e3,700	1,750	769	170	271	34	20	e1.5	3.7
5	432	306	2,130	e3,500	1,750	780	151	219	39	18	e1.5	3.2
6	389	283	1,900	e3,200	1,710	768	132	188	36	17	e1.4	2.1
7	352	288	1,700	e2,950	1,660	732	117	165	32	15	e1.7	e1.4
8	324	389	1,550	e2,750	1,640	685	101	143	28	16	e2.1	e0.90
9	335	453	1,440	2,390	1,620	633	89	138	24	15	2.5	e0.74
10	371	486	1,320	2,260	1,590	585	79	142	22	15	2.2	e0.67
11	383	499	1,210	2,110	1,550	548	71	138	25	14	e9.8	e0.62
12	376	503	1,090	1,990	1,490	527	69	123	22	13	11	e0.92
13	358	503	985	1,870	1,440	524	70	105	22	13	6.6	e1.2
14	336	505	895	1,760	1,410	515	71	91	25	12	4.7	e1.2
15	309	507	820	1,660	1,390	497	95	80	27	13	4.0	e0.91
16	283	535	764	1,580	1,360	458	262	69	26	13	3.8	e0.76
17	264	625	717	1,520	1,320	485	389	58	26	11	3.4	e0.62
18	251	717	676	1,460	1,260	518	459	69	23	9.7	3.0	e0.42
19	239	817	642	1,430	1,170	526	520	90	21	e7.6	3.0	0.35
20	227	929	608	1,390	1,070	514	590	84	20	e6.7	2.9	0.51
21	208	1,090	576	1,350	989	477	705	68	22	e7.4	2.9	0.58
22	193	1,440	556	1,380	921	e428	849	56	24	10	2.7	0.66
23	183	2,000	976	1,420	854	e395	973	48	22	9.8	2.8	1.0
24	175	2,880	1,470	1,460	802	e362	1,060	42	21	7.7	4.1	1.0
25	166	3,910	2,260	1,490	760	e335	1,080	37	19	e5.7	4.5	0.77
26	155	4,950	3,440	1,500	729	e310	1,040	32	16	e4.6	5.7	0.62
27	149	5,610	4,310	1,510	708	292	950	28	15	4.5	9.1	0.50
28	241	5,730	4,750	1,540	679	276	850	24	14	e4.0	13	0.40
29	337	5,380	4,820	1,580	---	260	750	22	13	e3.2	15	e0.29
30	373	4,810	4,790	1,600	---	250	641	19	e9.9	e3.1	10	e0.24
31	401	---	e4,600	1,590	---	238	---	17	---	e3.0	7.2	---
Total	10,114	47,645	63,815	66,540	36,522	15,744	12,948	3,855	676.9	400.0	148.5	39.68
Mean	326	1,588	2,059	2,146	1,304	508	432	124	22.6	12.9	4.79	1.32
Max	669	5,730	4,820	4,400	1,750	780	1,080	531	39	50	15	5.5
Min	149	283	556	1,350	679	238	69	17	9.9	3.0	1.4	0.24
Cfsm	0.48	2.34	3.03	3.16	1.92	0.75	0.63	0.18	0.03	0.02	0.01	0.00
In.	0.55	2.61	3.49	3.64	2.00	0.86	0.71	0.21	0.04	0.02	0.01	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	534	370	512	1,028	1,335	1,390	942	370	311	485	635	855
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	4.79	0.31
(WY)	(1941)	(1955)	(1955)	(1955)	(1941)	(1955)	(2002)	(2002)	(1952)	(2002)	(2007)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1939 - 2007	
Annual total	345,401		258,448.08			
Annual mean	946		708		728	
Highest annual mean					1,572	1999
Lowest annual mean					86.2	2002
Highest daily mean	5,730	Nov 28	5,730	Nov 28	30,600	Sep 21, 1999
Lowest daily mean	75	Aug 6	0.24	Sep 30	0.10	Aug 30, 1954
Annual seven-day minimum	102	Aug 2	0.55	Sep 24	0.10	Oct 4, 1954
Maximum peak flow			5,790 Nov 27		31,200 Sep 21, 1999	
Maximum peak stage			15.42 Nov 27		19.30 Sep 21, 1999	
Instantaneous low flow			0.20 Sep 30		0.10 Aug 30, 1954	
Annual runoff (cfsm)	1.39		1.04		1.07	
Annual runoff (inches)	18.90		14.14		14.55	
10 percent exceeds	2,260		1,750		1,890	
50 percent exceeds	528		283		358	
90 percent exceeds	150		2.8		27	

^a See Remarks.

