

Water-Data Report 2013

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 May 2013.

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

GAGE.--Water-stage recorder. Datum of gage is 15.52 ft above National Geodetic Vertical Datum 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 streamgage.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record also occurred September 9, 19, 28, and October 4-14, 1954.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	427	169	122	876	341	1,060	534	524	---	---	---	---
2	435	155	118	920	343	1,110	530	581	---	---	---	---
3	463	139	112	960	336	1,120	526	623	---	---	---	---
4	465	127	108	995	322	1,150	515	651	---	---	---	---
5	448	118	104	1,030	309	1,180	522	670	---	---	---	---
6	423	111	100	1,050	296	1,200	547	668	---	---	---	---
7	393	104	97	1,040	283	1,180	563	643	---	---	---	---
8	368	97	97	1,020	318	1,130	557	604	---	---	---	---
9	372	90	95	977	398	1,070	540	---	---	---	---	---
10	419	85	92	933	442	999	519	---	---	---	---	---
11	457	79	90	880	452	930	494	---	---	---	---	---
12	459	73	88	823	469	870	496	---	---	---	---	---
13	432	68	110	764	541	814	550	---	---	---	---	---
14	394	68	154	711	653	763	585	---	---	---	---	---
15	357	75	165	663	727	715	598	---	---	---	---	---
16	345	99	168	616	776	666	602	---	---	---	---	---
17	340	115	168	573	821	613	588	---	---	---	---	---
18	322	118	174	550	856	558	556	---	---	---	---	---
19	303	174	179	543	877	519	516	---	---	---	---	---
20	286	219	178	532	884	498	497	---	---	---	---	---
21	270	230	193	512	873	481	490	---	---	---	---	---
22	254	226	211	485	846	455	473	---	---	---	---	---
23	240	215	218	454	814	424	445	---	---	---	---	---
24	229	197	220	426	795	418	407	---	---	---	---	---
25	219	180	222	394	780	512	365	---	---	---	---	---
26	207	164	245	367	782	585	324	---	---	---	---	---
27	197	152	362	345	886	616	284	---	---	---	---	---
28	199	142	453	328	978	615	252	---	---	---	---	---
29	200	136	539	322	---	595	265	---	---	---	---	---
30	194	129	690	322	---	569	432	---	---	---	---	---
31	182	---	801	332	---	548	---	---	---	---	---	---
Total	10,299	4,054	6,673	20,743	17,198	23,963	14,572	---	---	---	---	---
Mean	332	135	215	669	614	773	486	---	---	---	---	---
Max	465	230	801	1,050	978	1,200	602	---	---	---	---	---
Min	182	68	88	322	283	418	252	---	---	---	---	---
Cfs/m	0.49	0.20	0.32	0.98	0.90	1.14	0.71	---	---	---	---	---
In.	0.56	0.22	0.37	1.13	0.94	1.31	0.80	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2013^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	515	355	509	988	1,294	1,334	905	358	309	456	599	819
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	2.25	20.6	44.6	219	108	16.2	5.51	2.27	4.79	0.31
(WY)	(1941)	(1955)	(2008)	(1955)	(1941)	(1955)	(2002)	(2002)	(1952)	(2002)	(2007)	(1954)

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SUMMARY STATISTICS

Water Years 1939 - 2013^a

Annual total		
Annual mean	704	
Highest annual mean	1,572	1999
Lowest annual mean	86.2	2002
Highest daily mean	30,600	Sep 21, 1999
Lowest daily mean	0.10	Aug 30, 1954
Annual seven-day minimum	0.10	Oct 4, 1954
Maximum peak flow	31,200	Sep 21, 1999
Maximum peak stage	19.30	Sep 21, 1999
Instantaneous low flow	^b 0.10	Aug 30, 1954
Annual runoff (cfsm)	1.03	
Annual runoff (inches)	14.06	
10 percent exceeds	1,840	
50 percent exceeds	342	
90 percent exceeds	25	

^a See Period of Record.^b See Remarks.