

02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC

Lower Pee Dee Basin
Lower Pee Dee Subbasin

LOCATION.--Lat 34°56'45", long 79°52'11" referenced to North American Datum of 1983, Richmond County, NC, Hydrologic Unit 03040201, on left bank at U.S. Highway 74 West bridge, 2.5 mi upstream from Falling Creek, 3.3 mi downstream from Blewett Falls Hydroelectric Plant of Progress Energy and 6 mi west of Rockingham, NC, 192 miles upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,863 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1906 to January 1912, October 1927 to current year. August 1906 to January 1912 published as "Yadkin River near Pee Dee".

REVISED RECORDS.--WSP 1203: 1928-37. WSP 1303: 1928-42 (monthly and yearly runoff), 1943-46 (adjusted monthly runoff). WSP 1503: 1906-12, 1928-32(m). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 119.52 ft above North American Vertical Datum of 1988 (from Trimble GPS). August 1906 to January 1912 nonrecording gage at site 3.3 mi upstream at different datum. September 1927 to September 30, 1931, water-stage recorder at present site at 121.68 ft. above NGVD of 1929. Telephone and satellite telemetry at station.

REMARKS.--Records good except those below 1000 ft³/s, which are fair and those for estimated daily discharges, which are poor. Flow regulated since 1928 by Blewett Falls Lake and five other reservoirs upstream. Prior to regulation, maximum discharge: 276,000 ft³/s, August 27, 1908; gage height: 31.28 ft, present site and datum, from records of State Highway Commission. Prior to regulation, minimum discharge: 2,210 ft³/s, September 3, 1907. Minimum discharge for period of record also occurred December 2, 3, 1951; minimum daily discharge for period of record: 58 ft³/s, December 2, 1951, a result of abnormally low flow during shutdown of Blewett Falls hydroelectric plant to produce steady flow for current-meter measurements at this gaging station. Minimum discharge from normal regulations: 96 ft³/s, October 25, 1943; minimum daily discharge: 120 ft³/s, October 8, 1961. Minimum discharge for current water year also occurred August 14.

02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC—Continued

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	3,790	3,380	7,030	10,700	8,380	9,870	4,240	7,230	3,360	1,250	4,430	1,160
2	2,930	3,530	4,350	11,000	9,460	36,100	4,410	6,540	876	2,940	3,810	1,180
3	3,220	3,910	3,640	38,000	11,900	71,900	6,100	3,840	936	2,860	3,420	1,100
4	4,100	2,770	5,580	28,300	8,730	64,500	5,720	932	3,010	820	1,900	1,150
5	1,250	1,430	6,900	12,800	7,470	20,100	7,350	625	1,490	3,680	1,540	1,130
6	353	3,760	6,940	17,800	8,220	12,700	7,450	442	805	4,330	2,150	2,120
7	393	4,810	5,010	25,200	7,480	11,500	2,700	5,300	3,460	1,510	2,560	1,260
8	526	7,480	3,220	33,700	6,770	8,690	3,390	3,640	3,870	1,490	3,250	1,170
9	479	7,520	5,080	49,800	5,750	7,340	6,110	5,250	2,110	4,170	2,220	1,030
10	452	4,000	7,370	32,000	4,420	8,360	5,480	5,390	889	3,320	1,030	1,040
11	1,240	548	6,120	16,900	3,830	7,190	5,290	3,220	2,890	2,970	972	1,020
12	1,970	3,730	3,880	15,000	3,410	6,720	6,610	3,820	3,260	2,580	954	1,030
13	1,910	8,560	6,440	12,600	4,830	6,980	6,230	4,260	e3,370	1,740	990	1,040
14	709	9,610	3,120	11,400	17,000	7,590	6,570	4,370	1,980	653	956	1,160
15	435	6,190	449	9,170	23,900	7,270	7,220	4,060	2,360	570	1,020	1,130
16	1,500	14,000	352	8,440	16,800	7,630	38,000	4,550	1,070	2,650	1,010	980
17	3,700	43,000	359	10,200	11,000	13,200	29,400	2,960	2,660	2,650	970	1,100
18	6,340	35,000	3,550	10,400	7,970	13,000	16,800	1,690	3,830	3,630	1,000	992
19	9,060	14,600	4,550	9,970	8,690	10,000	13,300	944	3,910	2,760	978	1,010
20	5,130	9,760	3,880	8,600	4,820	9,030	11,500	820	3,460	2,570	1,120	1,130
21	1,550	10,400	4,660	5,110	1,960	9,230	8,710	2,450	2,750	675	1,510	1,200
22	324	49,000	5,300	7,160	3,670	8,690	5,260	4,640	2,930	522	1,220	1,160
23	4,290	106,000	10,900	10,700	7,160	8,570	4,810	3,010	1,110	507	1,170	1,130
24	6,260	58,400	11,700	10,200	4,470	7,620	4,150	3,350	760	1,990	1,250	1,250
25	6,020	16,700	9,970	9,160	6,700	7,320	5,470	2,660	3,440	2,940	1,180	1,440
26	6,270	11,600	31,300	9,660	7,640	5,760	6,370	910	4,970	3,960	1,110	1,810
27	5,020	10,300	26,800	7,500	10,300	6,820	5,700	803	4,590	3,620	1,800	1,160
28	3,230	9,280	17,000	2,260	10,400	8,420	1,490	775	4,630	1,160	2,660	1,030
29	528	8,390	13,800	5,880	---	7,720	870	3,080	2,750	500	2,180	981
30	1,770	7,830	12,100	6,060	---	7,990	4,060	3,070	642	4,240	1,520	966
31	3,620	---	11,800	6,910	---	5,130	---	3,060	---	4,020	2,380	---
Total	88,369	475,488	243,150	452,580	233,130	422,940	240,760	97,691	78,168	73,277	54,260	35,059
Mean	2,851	15,850	7,844	14,600	8,326	13,640	8,025	3,151	2,606	2,364	1,750	1,169
Max	9,060	106,000	31,300	49,800	23,900	71,900	38,000	7,230	4,970	4,330	4,430	2,120
Min	324	548	352	2,260	1,960	5,130	870	442	642	500	954	966

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2007 ^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5,804	5,611	7,515	10,860	12,220	13,310	10,720	7,108	5,932	5,235	5,344	5,423
Max	25,850	16,120	20,300	31,270	36,040	34,480	31,340	17,410	20,260	16,790	19,180	35,690
(WY)	(1991)	(1958)	(1933)	(1937)	(1960)	(1993)	(1936)	(2003)	(2003)	(1975)	(1928)	(1928)
Min	503	419	1,598	2,475	3,032	3,589	2,692	1,955	1,853	1,668	979	1,008
(WY)	(2002)	(2002)	(2002)	(1956)	(2001)	(2006)	(1981)	(2002)	(1986)	(2002)	(2002)	(1954)

02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1928 - 2007 ^a	
Annual total	2,068,690		2,494,872			
Annual mean	5,668		6,835		7,903	
Highest annual mean					14,980	2003
Lowest annual mean					2,310	2002
Highest daily mean	106,000	Nov 23	106,000	Nov 23	242,000	Sep 18, 1945
Lowest daily mean	268	Sep 11	324	Oct 22	^a 58	Dec 2, 1951
Annual seven-day minimum	670	Oct 5	670	Oct 5	185	Sep 28, 1985
Maximum peak flow			113,000	Nov 23	^a 270,000	Sep 18, 1945
Maximum peak stage			16.54	Nov 23	^a 30.80	Sep 18, 1945
Instantaneous low flow			^{a,b} 231	Aug 13	^a 50	Dec 2, 1951
10 percent exceeds	10,600		12,600		14,200	
50 percent exceeds	3,850		3,960		5,550	
90 percent exceeds	720		955		1,490	

^a Regulated period only (1928-2007). See Remarks.

^b See Remarks.

