

Water-Data Report 2013

**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 Progress Energy Blewett Falls Hydroelectric Plant, 6 mi west of Rockingham, and 192 miles upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,863 mi<sup>2</sup>.

**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, daily discharges; 1928-50, minimum discharge. WSP 1303: 1928-37, monthly and yearly mean discharges: 1943-46, adjusted monthly runoff, unreliable. WSP 1503: 1906-12, daily discharges; 1928-32, minimum discharges, unreliable. 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 National Geodetic Vertical Datum of 1929. Telephone and satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good except those below 1,000 ft<sup>3</sup>/s, which are fair. Flow regulated since 1928 by Blewett Falls Lake and five other reservoirs upstream. Prior to regulation, maximum discharge: 276,000 ft<sup>3</sup>/s, August 27, 1908; gage height: 31.28 ft, at present site and datum, from records of State Highway Commission. Prior to regulation, minimum discharge: 2,210 ft<sup>3</sup>/s, September 3, 1907. Minimum discharge for period of record also occurred December 2, 3, 1951; minimum daily discharge for period of record: 58 ft<sup>3</sup>/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 ft<sup>3</sup>/s, October 25, 1943; minimum daily discharge: 120 ft<sup>3</sup>/s, October 8, 1961.

## 02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC—Continued

**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	3,340	2,570	1,900	4,410	11,900	14,900	6,560	16,400	3,890	43,200	12,300	3,960
2	3,900	1,840	2,140	6,220	15,400	11,200	8,570	12,100	4,730	25,200	14,100	5,400
3	5,020	1,360	2,460	7,960	10,500	11,100	8,240	8,930	7,550	21,100	12,100	5,840
4	6,450	1,240	2,030	5,570	7,950	10,900	8,790	10,700	13,300	23,900	10,900	5,550
5	5,830	1,250	3,810	4,320	7,120	10,700	10,100	10,300	13,400	29,500	9,290	6,540
6	2,710	2,150	3,380	3,500	9,000	9,700	13,300	9,710	8,990	30,800	9,520	4,390
7	3,870	3,620	3,220	4,880	9,860	9,570	12,500	12,700	31,700	32,000	6,290	4,480
8	4,500	2,580	3,540	6,260	9,640	7,170	11,000	18,500	70,300	24,600	2,830	6,020
9	4,980	2,120	2,940	4,590	5,860	2,700	10,500	21,300	39,600	29,600	3,230	5,100
10	4,190	1,230	3,170	5,720	4,820	2,570	10,400	18,300	15,800	20,200	4,910	6,300
11	4,240	1,200	1,660	5,510	7,620	3,570	9,160	13,300	22,100	18,800	9,020	5,140
12	5,130	820	1,460	2,310	7,700	8,750	9,660	10,900	20,600	25,600	9,970	4,950
13	3,490	735	1,470	2,080	7,090	13,500	9,840	9,260	13,700	26,800	9,950	4,530
14	3,130	3,740	1,380	3,050	6,720	13,500	9,970	5,540	12,200	14,900	9,660	2,530
15	3,210	2,250	1,270	5,310	7,520	11,800	8,450	3,980	9,410	12,300	10,900	2,180
16	5,860	2,050	1,270	6,830	6,710	8,710	8,570	6,250	9,950	12,800	9,980	3,520
17	5,480	1,560	1,290	9,890	7,680	5,550	5,740	7,140	6,690	11,000	9,450	3,700
18	5,480	2,160	1,260	27,200	7,860	7,410	7,960	8,490	5,590	9,880	9,350	2,010
19	3,000	3,090	1,250	54,000	7,390	9,060	6,090	8,270	4,880	9,530	17,800	1,520
20	2,100	2,660	1,220	51,900	5,550	7,500	5,070	8,530	7,840	10,100	12,200	1,520
21	1,410	2,520	1,250	17,900	7,290	7,900	3,890	10,500	7,940	9,600	12,100	1,920
22	3,200	2,560	1,270	12,300	8,620	6,700	6,070	10,300	5,320	9,600	13,300	3,860
23	4,170	2,090	1,330	11,300	7,710	4,190	5,240	8,890	4,140	11,700	13,800	5,620
24	3,140	1,700	1,330	10,400	10,400	6,890	4,950	9,280	5,770	9,010	11,000	2,930
25	1,720	1,770	1,310	9,830	11,700	10,500	6,910	9,290	6,940	10,600	10,500	3,210
26	2,040	2,180	1,720	7,280	10,900	10,600	6,080	8,410	5,870	12,300	10,100	3,610
27	1,450	3,580	2,400	4,230	24,800	9,770	5,330	6,720	3,300	11,000	9,980	3,600
28	1,330	2,170	6,010	6,470	21,100	6,160	5,280	6,960	6,890	28,100	9,720	2,050
29	1,360	2,980	4,670	4,820	---	5,630	28,200	5,730	15,300	41,200	8,640	3,570
30	1,440	2,780	3,880	4,720	---	5,820	29,200	4,040	25,200	25,400	7,900	4,640
31	3,310	---	4,770	10,900	---	4,990	---	5,190	---	18,200	1,840	---
<b>Total</b>	110,480	64,555	72,060	321,660	266,410	259,010	281,620	305,910	408,890	618,520	302,630	120,190
<b>Mean</b>	3,564	2,152	2,325	10,380	9,515	8,355	9,387	9,868	13,630	19,950	9,762	4,006
<b>Max</b>	6,450	3,740	6,010	54,000	24,800	14,900	29,200	21,300	70,300	43,200	17,800	6,540
<b>Min</b>	1,330	735	1,220	2,080	4,820	2,570	3,890	3,980	3,300	9,010	1,840	1,520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2013<sup>a</sup>, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	5,578	5,512	7,490	10,720	11,940	13,040	10,490	7,084	5,964	5,260	5,276	5,252
<b>Max</b>	25,850	16,120	20,300	31,270	36,040	34,480	31,340	17,410	20,260	19,950	19,180	35,690
<b>(WY)</b>	(1991)	(1958)	(1933)	(1937)	(1960)	(1993)	(1936)	(2003)	(2003)	(2013)	(1928)	(1928)
<b>Min</b>	503	419	1,598	2,475	3,032	3,589	2,692	1,955	1,853	1,668	979	1,008
<b>(WY)</b>	(2002)	(2002)	(2002)	(1956)	(2001)	(2006)	(1981)	(2002)	(1986)	(2002)	(2002)	(1954)

## 02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC—Continued

## SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1928 - 2013 <sup>a</sup>	
<b>Annual total</b>	1,697,447		3,131,935			
<b>Annual mean</b>	4,638		8,581		7,780	
<b>Highest annual mean</b>					14,980	
<b>Lowest annual mean</b>					2,310	
<b>Highest daily mean</b>	41,000	May 16	70,300	Jun 8	242,000	Sep 18, 1945
<b>Lowest daily mean</b>	735	Nov 13	735	Nov 13	<sup>b</sup> 58	Dec 2, 1951
<b>Annual seven-day minimum</b>	1,260	Dec 15	1,260	Dec 15	185	Sep 28, 1985
<b>Maximum peak flow</b>			76,300	Jun 8	<sup>b</sup> 270,000	Sep 18, 1945
<b>Maximum peak stage</b>			12.75	Jun 8	<sup>b</sup> 30.80	Sep 18, 1945
<b>Instantaneous low flow</b>			450	Nov 13	<sup>b</sup> 50	Dec 2, 1951
<b>10 percent exceeds</b>	8,260		16,000		14,000	
<b>50 percent exceeds</b>	3,820		6,560		5,460	
<b>90 percent exceeds</b>	1,470		1,880		1,440	

<sup>a</sup> Regulated period only (1928-2013). See Remarks.

<sup>b</sup> See Remarks

