

Water-Data Report 2010

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 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, 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.--Records good except 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, at 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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,060	2,410	10,000	12,300	12,300	5,590	12,900	4,330	12,300	5,220	1,240	2,340
2	e2,700	9,520	9,990	12,100	13,200	7,830	11,200	4,440	17,800	2,210	2,360	2,580
3	3,490	9,160	19,300	11,700	19,800	6,890	10,600	6,500	14,700	1,080	3,870	2,600
4	1,710	6,140	26,500	10,400	33,900	8,080	9,320	5,560	13,200	1,070	4,600	1,190
5	2,980	3,410	20,800	10,300	42,800	8,880	5,990	3,650	10,300	1,090	4,360	1,110
6	3,180	3,500	12,400	10,900	96,200	8,250	4,800	3,460	5,820	1,380	5,630	1,310
7	3,260	2,700	10,700	9,160	94,400	7,620	7,550	2,660	6,900	2,710	1,910	3,190
8	4,050	2,330	10,700	8,200	59,100	8,140	6,700	3,550	5,170	2,740	1,300	3,330
9	1,630	4,990	13,800	e8,600	35,800	8,420	6,700	1,900	8,140	2,220	3,360	3,330
10	1,110	7,070	38,800	e9,200	18,600	8,070	9,710	1,320	6,320	997	3,730	1,220
11	1,150	11,800	31,900	9,520	13,600	8,400	10,200	1,510	4,070	1,030	3,090	1,120
12	1,130	48,500	15,500	6,000	13,500	9,640	8,580	4,190	3,080	2,050	4,550	1,060
13	1,010	60,400	12,800	3,440	12,800	18,300	8,380	4,160	3,180	4,150	3,340	1,280
14	1,110	36,000	12,700	1,400	12,300	23,800	7,330	3,650	4,130	4,050	1,380	2,680
15	1,150	15,100	11,900	1,740	12,800	16,900	7,940	4,650	4,470	2,250	1,190	2,150
16	1,630	11,200	11,700	3,140	12,700	14,100	6,430	4,600	4,980	2,710	2,920	2,580
17	1,200	9,120	10,500	7,250	9,890	13,000	3,740	7,040	4,750	1,860	3,440	1,870
18	1,140	7,580	8,790	30,500	9,510	11,500	5,460	12,000	4,260	1,920	3,890	1,380
19	1,150	4,000	12,400	18,100	5,400	10,700	5,660	16,200	4,570	3,820	6,430	1,070
20	2,260	2,520	19,500	14,500	6,090	10,200	6,150	14,700	4,390	3,170	17,200	1,180
21	4,180	2,450	15,600	13,700	8,030	10,200	4,990	10,700	4,650	3,540	14,800	1,160
22	3,370	3,340	12,800	24,000	8,040	10,200	2,860	6,860	3,770	3,330	9,390	1,540
23	1,550	9,370	11,600	20,100	9,350	10,600	2,710	6,750	2,680	2,520	5,700	1,370
24	1,950	13,400	10,600	15,400	10,400	9,410	3,830	6,490	3,550	1,510	5,330	1,120
25	1,700	13,000	10,500	45,000	10,500	9,910	5,460	7,770	1,740	1,290	6,560	1,150
26	3,640	10,500	47,700	93,100	11,000	9,700	7,730	7,400	959	2,680	2,180	1,580
27	3,050	8,770	61,600	88,300	9,690	10,100	5,360	6,700	1,030	3,010	2,020	5,920
28	3,140	4,750	40,700	50,700	7,810	10,200	7,250	6,080	1,560	4,630	3,170	1,250
29	1,640	3,570	16,000	21,000	---	11,600	5,290	5,770	2,970	6,690	3,580	3,740
30	1,370	6,210	13,100	20,900	---	39,000	3,410	6,470	3,860	5,270	3,930	10,500
31	1,260	---	12,500	15,200	---	23,900	---	6,020	---	1,180	4,100	---
Total	65,950	332,810	573,380	605,850	609,510	369,130	204,230	187,080	169,299	83,377	140,550	67,900
Mean	2,127	11,090	18,500	19,540	21,770	11,910	6,808	6,035	5,643	2,690	4,534	2,263
Max	4,180	60,400	61,600	93,100	96,200	39,000	12,900	16,200	17,800	6,690	17,200	10,500
Min	1,010	2,330	8,790	1,400	5,400	5,590	2,710	1,320	959	997	1,190	1,060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2010 ^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5,659	5,579	7,577	10,840	12,140	13,220	10,610	7,053	5,933	5,145	5,282	5,321
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)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1928 - 2010 ^a	
Annual total	2,745,620		3,409,066			
Annual mean	7,522		9,340		7,842	
Highest annual mean					14,980	2003
Lowest annual mean					2,310	2002
Highest daily mean	63,700	Mar 2	96,200	Feb 6	242,000	Sep 18, 1945
Lowest daily mean	1,010	Oct 13	959	Jun 26	^b 58	Dec 2, 1951
Annual seven-day minimum	1,180	Oct 9	1,180	Oct 9	185	Sep 28, 1985
Maximum peak flow			108,000	Feb 6	^b 270,000	Sep 18, 1945
Maximum peak stage			16.03	Feb 6	^b 30.80	Sep 18, 1945
Instantaneous low flow			185	Aug 27	^b 50	Dec 2, 1951
10 percent exceeds	14,400		17,000		14,200	
50 percent exceeds	4,590		5,820		5,490	
90 percent exceeds	1,460		1,350		1,430	

^a Regulated period only (1928-2010). See Remarks.

^b See Remarks

