

Water-Data Report 2008

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 National Geodetic Vertical Datum 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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	931	1,160	1,140	12,100	3,820	2,310	4,220	11,100	3,190	1,340	1,070	5,260
2	1,000	1,170	1,180	8,690	6,900	1,710	4,360	8,190	3,110	1,770	1,160	4,610
3	936	1,430	1,160	4,540	6,790	2,440	4,450	7,100	2,450	2,460	1,100	4,420
4	982	829	1,120	6,200	3,700	4,920	5,470	4,240	2,460	1,930	1,340	3,230
5	958	1,090	1,730	1,690	4,190	11,900	11,100	2,260	2,270	1,310	1,260	3,910
6	970	990	1,400	1,450	4,730	14,100	24,900	3,710	1,220	2,980	1,230	3,960
7	1,110	947	1,720	2,540	3,460	10,800	21,600	4,370	1,470	3,060	1,000	1,750
8	2,150	1,150	1,170	3,640	4,910	11,600	16,100	5,280	1,370	1,340	1,000	2,110
9	1,200	1,130	1,180	3,710	2,110	15,400	11,300	4,520	1,420	12,200	1,290	1,300
10	1,030	1,030	1,260	4,450	3,190	9,720	10,500	3,730	2,310	3,330	1,070	4,890
11	928	993	2,400	3,850	5,050	8,380	7,800	3,150	2,120	3,180	1,150	5,460
12	907	980	1,430	1,220	3,300	4,210	8,480	2,340	2,030	2,180	1,050	7,220
13	914	906	1,550	1,300	4,180	5,080	8,710	3,300	1,340	1,660	1,430	4,110
14	947	944	1,730	2,160	8,310	5,610	7,370	3,740	1,520	1,580	1,090	3,630
15	844	1,070	1,610	5,080	6,780	4,910	4,290	2,240	1,490	2,210	1,350	3,240
16	836	1,080	2,680	4,230	2,200	9,320	2,390	4,360	2,530	2,660	1,230	1,640
17	920	1,180	3,230	4,480	3,740	12,100	1,440	1,680	2,230	1,280	1,230	3,030
18	914	1,180	2,080	6,480	3,540	10,500	1,480	1,240	1,570	1,200	4,090	2,120
19	1,130	1,150	1,440	3,550	6,090	7,730	1,500	4,030	1,630	1,160	2,460	998
20	931	1,100	1,550	4,910	5,570	7,950	1,530	3,680	1,160	1,150	1,220	1,320
21	951	1,140	1,730	5,780	5,940	9,460	4,230	3,970	1,120	1,320	2,220	1,520
22	1,060	1,200	1,310	3,340	2,600	4,050	4,260	4,560	1,090	1,270	985	2,040
23	1,050	1,080	1,100	2,410	3,440	3,880	5,620	4,860	4,300	1,180	1,100	2,710
24	924	1,100	1,210	3,050	4,670	6,390	5,340	1,760	2,390	1,350	1,180	2,900
25	996	1,070	1,350	2,970	5,670	5,800	4,480	1,550	2,780	1,670	1,200	3,920
26	3,330	1,110	1,260	2,160	5,050	4,420	3,250	1,930	2,650	1,250	2,740	3,850
27	1,520	1,130	4,770	1,770	6,710	3,210	3,810	2,770	1,840	1,150	7,000	3,660
28	1,140	1,110	5,630	2,840	6,870	4,740	9,200	4,850	1,540	1,150	25,700	3,680
29	1,050	1,140	3,790	2,670	4,850	2,890	25,800	2,060	1,790	1,710	30,500	3,630
30	1,760	1,130	5,280	3,510	---	1,960	16,800	1,850	1,790	1,440	13,300	4,310
31	1,540	---	10,900	3,460	---	5,740	---	2,590	---	1,170	5,020	---
Total	35,859	32,719	71,090	120,230	138,360	213,230	241,780	117,010	60,180	64,640	118,765	100,428
Mean	1,157	1,091	2,293	3,878	4,771	6,878	8,059	3,775	2,006	2,085	3,831	3,348
Max	3,330	1,430	10,900	12,100	8,310	15,400	25,800	11,100	4,300	12,200	30,500	7,220
Min	836	829	1,100	1,220	2,110	1,710	1,440	1,240	1,090	1,150	985	998

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5,746	5,555	7,450	10,780	12,120	13,230	10,690	7,067	5,883	5,196	5,325	5,397
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 2007		Water Year 2008		Water Years 1928 - 2008 ^a	
Annual total	1,827,533		1,314,291			
Annual mean	5,007		3,591		7,849	
Highest annual mean					14,980	2003
Lowest annual mean					2,310	2002
Highest daily mean	71,900	Mar 3	30,500	Aug 29	242,000	Sep 18, 1945
Lowest daily mean	442	May 6	829	Nov 4	^b 58	Dec 2, 1951
Annual seven-day minimum	897	Oct 12	897	Oct 12	185	Sep 28, 1985
Maximum peak flow			40,800	Aug 28	^b 270,000	Sep 18, 1945
Maximum peak stage			8.86	Aug 28	^b 30.80	Sep 18, 1945
Instantaneous low flow			286	Sep 5	^b 50	Dec 2, 1951
10 percent exceeds	10,300		7,260		14,200	
50 percent exceeds	2,650		2,290		5,500	
90 percent exceeds	946		1,070		1,440	

^aRegulated period only (1928-2008). See Remarks.

^bSee Remarks

