

PEE DEE RIVER BASIN

02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC

LOCATION.--Lat 34°56'46", long 79°52'11", Richmond County, Hydrologic Unit 03040201, on left bank at bridge on U.S. Highway 74, 2.5 mi upstream from Falling Creek, 3.3 mi downstream of Blewett Falls hydroelectric plant, 6 mi west of Rockingham, and 192 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,863 mi².

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 120.68 ft above sea level (levels by U.S. Army Corps of Engineers). August 1906 to January 1912 nonrecording gage at site 3.3 mi upstream at different datum. Sept. 1927 to Sept. 30, 1931, water-stage recorder at present site at 121.68 ft. Telephone and satellite telemetry at station.

REMARKS.--Records good except those below 1000 ft³/s, 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, Aug. 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, Sept. 3, 1907. Minimum discharge for period of record also occurred Dec. 2, 3, 1951; minimum daily discharge for period of record: 58 ft³/s, Dec 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, Oct. 25, 1943; minimum daily discharge: 120 ft³/s, Oct. 8, 1961.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	843	1670	3690	455	2350	5950	16500	498	3510	558	2420	482
2	2960	2150	705	2870	4160	5080	16600	4040	5560	2880	2790	424
3	3200	1060	543	7220	2130	3960	12500	2930	777	3750	3010	571
4	3730	683	3600	5330	478	1600	11700	2200	2920	1660	2740	2670
5	4190	676	1330	5350	2670	8140	11400	1770	5480	3380	520	2990
6	2710	464	3320	821	2450	11300	11200	342	930	4840	3170	2410
7	547	354	673	465	2680	9460	10800	2200	2770	2390	3610	3190
8	451	972	1060	1650	1270	7420	9230	1690	1170	2990	2010	1350
9	2490	1810	618	4360	1600	7790	5190	547	397	3500	1600	406
10	283	1570	591	1990	702	5820	4860	1410	736	4020	424	3070
11	263	638	882	2390	1000	778	5510	5040	1460	1520	283	3380
12	286	555	1540	1990	5060	2390	6970	3390	2010	1360	289	3480
13	1130	507	1400	340	4360	1680	2840	620	3250	1900	3270	642
14	874	2160	2190	272	2760	3950	4050	1350	5650	590	2790	1780
15	654	2930	743	381	1490	6790	4140	2280	3470	1020	1210	872
16	645	2300	539	1780	1280	5870	648	2240	1290	1780	2970	342
17	700	904	2150	1810	3190	4600	2860	5340	641	2750	2360	479
18	1740	666	4960	2230	7010	1620	4000	2780	1880	2610	2290	679
19	2130	506	4020	e3140	4290	6220	2540	2980	3330	2530	1810	2700
20	1970	1050	3300	2640	5160	7620	340	400	3740	2570	2410	4380
21	428	4100	1790	2830	1770	10400	319	2060	4010	545	3030	5620
22	376	4120	586	e2980	7840	16700	340	1590	3450	270	354	4740
23	832	2720	1080	3680	3140	11300	4560	2820	556	2790	2600	5370
24	1930	1150	424	4580	4070	7780	3680	2670	2520	3280	3000	6450
25	596	1670	293	3610	732	1650	2370	2880	3420	2870	1310	5730
26	413	3890	1150	2470	3690	5710	2300	1330	5020	1710	484	5200
27	1050	1330	2850	894	1780	6040	2120	536	3730	1350	2430	4510
28	485	4760	3180	687	5790	6040	696	3040	5820	501	2730	4250
29	415	2140	1740	3460	---	6590	418	1190	4680	1450	628	1510
30	1200	2330	2340	3220	---	25300	4320	709	2030	522	e3600	357
31	445	---	580	2880	---	26300	---	4450	---	485	1700	---
TOTAL	39966	51835	53867	78775	84902	231848	165001	67322	86207	64371	63842	80034
MEAN	1289	1728	1738	2541	3032	7479	5500	2172	2874	2076	2059	2668
MAX	4190	4760	4960	7220	7840	26300	16600	5340	5820	4840	3610	6450
MIN	263	354	293	272	478	778	319	342	397	270	283	342
†	-462	-297	323	325	515	1110	-731	-60	-235	-122	-356	-1397

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2001, * BY WATER YEAR (WY)

	MEAN	5952	5527	7460	11060	12570	13440	10760	7225	5876	5254	5368	5372
MAX	25850	16120	20300	31270	36040	34480	31340	15630	15210	16790	19180	35690	
(WY)	1991	1958	1933	1937	1960	1993	1936	1958	1972	1975	1928	1928	
MIN	1289	1607	1738	2475	3032	4117	2692	2026	1853	1692	1456	1008	
(WY)	2001	1954	2001	1956	2001	1981	1981	1986	1986	1986	1954	1954	

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1928 - 2001*	
ANNUAL TOTAL	1577326		1067970		7967 (UNADJUSTED)	
ANNUAL MEAN	4310		2926		13000 1975	
HIGHEST ANNUAL MEAN			‡2811		2926 2001	
LOWEST ANNUAL MEAN					242000 Sep 18 1945	
HIGHEST DAILY MEAN	27800	Feb 15	26300	Mar 31	185	Sep 28 1985
LOWEST DAILY MEAN	263	Oct 11	263	Oct 11	58*	Dec 2 1951
ANNUAL SEVEN-DAY MINIMUM	591	Oct 10	591	Oct 10	185	Sep 28 1985
MAXIMUM PEAK FLOW			34800	Mar 31	270000*	Sep 18 1945
MAXIMUM PEAK STAGE			8.16	Mar 31	30.80*	Sep 18 1945
INSTANTANEOUS LOW FLOW			205	Oct 23	50*	Dec 2 1951
10 PERCENT EXCEEDS	9940		5720		14400	
50 PERCENT EXCEEDS	2800		2330		5580	
90 PERCENT EXCEEDS	625		481		1640	

e Estimated.

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir, provided by U.S. Army Corps of Engineers; High Rock Lake, Tuckertown Reservoir, and Badin Lake, provided by Yadkin, Inc.; Lake Tillery and Blewett Falls Lake, provided by Carolina Power and Light Company.

‡ Adjusted for change in contents.

* For regulated period only (1928-2001). See REMARKS.

