

PEE DEE RIVER BASIN

02114450 LITTLE YADKIN RIVER AT DALTON, NC

LOCATION.--Lat 36°17'56", long 80°25'53", Stokes County, Hydrologic Unit 03040101, on left bank 1,200 ft downstream of bridge on U.S. Highway 52, 1.0 mi southwest of Dalton, 1.3 mi downstream of Southern Railway bridge, and 2.0 mi downstream of Danbury Creek.

DRAINAGE AREA.--42.8 mi².

PERIOD OF RECORD.--August 1960 to current year.

REVISED RECORDS.--WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 813.7 ft above NGVD of 1929 (North Carolina State Highway Commission bench mark). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A Natural Resources Conservation Service flood-control dam on upstream tributary, drainage area 4.7 mi² with flood storage of 695 acre-ft, was completed on June 21, 1977. Maximum discharge for period of record, from rating curve extended above 2,700 ft³/s on basis of slope-area measurement at gage height 17.86 ft. Minimum discharge for period of record and current water year also occurred Aug. 25, 26, 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	7.2	11	19	25	19	31	15	8.7	10	4.7	6.9
2	7.9	7.5	10	18	22	23	27	18	18	8.2	4.1	5.1
3	7.9	7.4	10	20	22	41	26	27	8.7	7.0	4.0	3.9
4	7.6	8.0	10	20	21	29	24	18	7.5	7.0	3.6	4.0
5	6.9	7.9	8.4	19	21	24	23	18	6.8	13	3.3	13
6	6.6	7.6	8.5	30	22	23	22	16	11	6.5	3.1	6.6
7	6.3	7.9	9.5	38	75	22	21	16	29	5.4	2.4	5.8
8	5.3	8.2	10	27	62	22	22	19	10	5.0	2.1	4.8
9	4.9	8.2	12	25	39	22	22	15	7.6	4.5	2.1	4.2
10	4.5	8.4	16	23	35	22	23	15	6.7	5.1	2.3	3.8
11	6.1	8.7	77	23	34	20	21	14	6.0	24	2.3	3.3
12	8.1	8.9	38	21	29	23	21	14	5.2	8.1	2.5	2.9
13	9.2	8.9	30	21	26	43	21	18	5.0	6.7	2.4	2.5
14	17	9.2	29	21	25	50	21	22	6.2	15	2.3	3.5
15	23	9.4	25	21	25	34	21	12	6.1	11	6.6	21
16	14	9.4	23	21	24	30	20	11	4.7	8.0	9.0	16
17	13	9.6	39	21	22	172	20	9.8	4.3	6.4	2.8	7.9
18	11	9.8	109	21	21	270	19	12	4.1	5.7	2.0	60
19	8.7	9.9	39	63	21	103	19	11	3.8	5.2	1.8	64
20	7.1	10	28	102	21	e66	21	9.8	3.4	4.9	1.6	21
21	5.7	10	23	42	22	e44	19	9.6	3.0	4.7	1.4	12
22	5.2	9.8	21	29	21	36	18	9.6	2.9	4.7	1.5	32
23	5.7	9.9	21	117	21	31	16	9.4	2.7	4.4	1.7	78
24	5.7	13	35	92	20	29	16	9.1	3.0	6.4	1.6	21
25	5.6	12	25	206	20	26	17	8.7	2.9	20	1.5	14
26	4.9	9.8	22	73	20	29	16	8.2	68	39	e4.0	62
27	4.6	9.2	21	45	20	49	16	7.8	90	14	6.6	62
28	5.1	9.5	20	35	18	33	16	9.7	57	8.9	4.3	32
29	5.5	8.8	20	31	---	30	17	8.4	55	7.0	7.4	19
30	6.3	10	20	28	---	29	15	7.8	15	5.7	5.1	15
31	6.7	---	20	26	---	32	---	8.3	---	5.2	8.7	---
TOTAL	244.7	274.1	790.4	1298	754	1426	611	407.2	462.3	286.7	108.8	607.2
MEAN	7.894	9.137	25.50	41.87	26.93	46.00	20.37	13.14	15.41	9.248	3.510	20.24
MAX	23	13	109	206	75	270	31	27	90	39	9.0	78
MIN	4.5	7.2	8.4	18	18	19	15	7.8	2.7	4.4	1.4	2.5
CFSM	0.18	0.21	0.60	0.98	0.63	1.07	0.48	0.31	0.36	0.22	0.08	0.47
IN.	0.21	0.24	0.69	1.13	0.66	1.24	0.53	0.35	0.40	0.25	0.09	0.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2002, BY WATER YEAR (WY)

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
MEAN	35.55	31.50	45.33	59.24	64.12	80.18	59.54	44.30	38.64	31.34	29.44	27.29
MAX	171	102	113	136	163	250	217	154	155	128	120	172
(WY)	1991	1993	1974	1978	1990	1975	1987	1984	1962	1978	1970	1979
MIN	7.47	9.14	15.1	17.2	24.9	20.1	18.0	13.1	7.15	4.27	3.51	5.08
(WY)	1987	2002	2001	1981	2001	1967	1967	2002	1986	1986	2002	1968

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1960 - 2002

ANNUAL TOTAL	8484.2	7270.4		
ANNUAL MEAN	23.24	19.92	45.33	
HIGHEST ANNUAL MEAN			75.2	1990
LOWEST ANNUAL MEAN			19.9	2002
HIGHEST DAILY MEAN	309	Mar 30	270	Mar 18
LOWEST DAILY MEAN	4.4	Jul 23	1.4	Aug 21
ANNUAL SEVEN-DAY MINIMUM	5.3	Oct 22	1.6	Aug 19
MAXIMUM PEAK FLOW			545	Jun 26
MAXIMUM PEAK STAGE			2.59	Jun 26
INSTANTANEOUS LOW FLOW			1.2*	Aug 24
ANNUAL RUNOFF (CFSM)	0.54		0.47	1.06
ANNUAL RUNOFF (INCHES)	7.37		6.32	14.39
10 PERCENT EXCEEDS	39		37	72
50 PERCENT EXCEEDS	16		14	25
90 PERCENT EXCEEDS	7.5		4.1	12

e Estimated.

* See REMARKS.

02114450 LITTLE YADKIN RIVER AT DALTON, NC--Continued

