

02114450 LITTLE YADKIN RIVER AT DALTON, NC

LOCATION.--Lat 36°17'56", long 80°25'52", 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 also occurred Aug. 25, 26, 2002. Minimum discharge for current water year also occurred Oct. 9.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	28	19	56	27	110	65	423	38	33	58	62
2	12	23	18	50	25	131	53	118	34	104	43	38
3	11	21	19	123	24	73	46	84	49	78	177	33
4	11	20	19	78	34	53	43	70	179	47	119	1,850
5	9.9	29	37	49	30	47	44	86	117	39	191	368
6	9.0	93	27	40	26	100	40	82	58	67	422	167
7	9.0	37	23	34	31	67	165	63	229	78	113	98
8	8.7	27	22	32	28	50	105	52	181	43	74	71
9	8.5	23	23	30	27	43	402	45	89	39	63	49
10	9.0	22	23	28	28	38	1,310	41	60	43	147	43
11	20	96	237	26	29	35	386	39	51	51	304	38
12	14	278	121	25	28	34	166	37	77	41	128	34
13	12	124	326	25	26	35	108	33	49	57	73	33
14	11	55	203	25	26	45	79	32	43	42	106	32
15	11	38	82	23	32	36	65	36	42	35	60	32
16	211	253	54	23	45	405	54	38	79	34	57	32
17	65	316	41	24	40	144	49	34	75	37	112	28
18	28	87	34	e23	47	81	92	41	58	33	105	113
19	20	50	31	e22	70	60	170	38	87	40	47	229
20	17	39	125	e22	69	2,780	85	35	58	41	40	61
21	20	34	63	e21	58	427	68	34	44	37	37	42
22	31	30	42	e21	667	225	59	56	39	39	35	39
23	21	26	34	e23	264	135	49	74	35	45	35	672
24	18	24	164	e22	97	101	46	48	33	44	42	125
25	16	23	210	e21	59	74	46	47	31	39	34	66
26	20	23	84	e20	48	60	57	91	30	38	33	50
27	17	22	53	e20	92	51	57	70	30	38	31	43
28	35	21	42	e19	151	44	45	64	31	40	31	43
29	58	20	36	26	---	42	41	51	31	104	31	37
30	68	20	32	32	---	162	51	48	31	86	32	34
31	41	---	31	30	---	106	---	43	---	57	48	---
TOTAL	855.1	1,902	2,275	1,013	2,128	5,794	4,046	2,053	1,988	1,549	2,828	4,562
MEAN	27.6	63.4	73.4	32.7	76.0	187	135	66.2	66.3	50.0	91.2	152
MAX	211	316	326	123	667	2,780	1,310	423	229	104	422	1,850
MIN	8.5	20	18	19	24	34	40	32	30	33	31	28
CFSM	0.64	1.48	1.71	0.76	1.78	4.37	3.15	1.55	1.55	1.17	2.13	3.55
IN.	0.74	1.65	1.98	0.88	1.85	5.04	3.52	1.78	1.73	1.35	2.46	3.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2003, BY WATER YEAR (WY)

MEAN	35.4	32.2	46.0	58.6	64.4	82.7	61.3	44.8	39.3	31.8	30.8	30.1
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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1960 - 2003	
ANNUAL TOTAL	10,993.3		30,993.1		46.3	
ANNUAL MEAN	30.1		84.9		84.9	
HIGHEST ANNUAL MEAN					19.9	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	326	Dec 13	2,780	Mar 20	3,350	Jun 21, 1972
LOWEST DAILY MEAN	1.4	Aug 21	8.5	Oct 9	1.4	Aug 21, 2002
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 19	9.3	Oct 4	1.6	Aug 19, 2002
MAXIMUM PEAK FLOW			5,780	Sep 4	9,400*	Sep 22, 1979
MAXIMUM PEAK STAGE			13.84	Sep 4	20.29	Sep 22, 1979
INSTANTANEOUS LOW FLOW			8.3*	Oct 8	1.2*	Aug 24, 2002
ANNUAL RUNOFF (CFSM)	0.70		1.98		1.08	
ANNUAL RUNOFF (INCHES)	9.55		26.94		14.68	
10 PERCENT EXCEEDS	62		149		74	
50 PERCENT EXCEEDS	20		43		26	
90 PERCENT EXCEEDS	4.1		21		12	

e Estimated.
 * See REMARKS.

