

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 7,700 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	32	33	34	35	34	37	91	24	15	16	13
2	33	32	31	34	33	35	34	77	20	15	16	12
3	31	32	30	34	205	35	32	49	18	19	42	12
4	32	32	35	34	102	34	32	38	28	34	19	11
5	31	32	79	42	63	33	31	36	28	21	15	11
6	31	129	67	43	395	38	30	33	23	17	14	10
7	30	88	47	35	271	36	30	32	21	16	12	16
8	30	45	40	34	98	37	30	29	24	15	12	439
9	34	36	37	36	66	36	29	28	23	15	11	102
10	38	33	125	35	56	37	29	33	21	14	11	39
11	33	33	164	33	49	37	29	27	20	17	25	26
12	32	33	69	33	48	37	43	26	18	21	94	23
13	32	31	51	33	45	36	178	26	19	18	51	20
14	32	29	77	32	42	36	226	25	21	16	23	21
15	39	31	105	32	43	37	98	24	23	13	20	20
16	32	32	96	31	46	63	61	24	22	12	18	19
17	32	32	154	31	42	52	48	82	19	12	19	71
18	32	31	95	39	43	41	42	68	18	21	22	90
19	32	55	65	35	47	38	39	33	16	16	18	33
20	31	49	52	32	45	36	36	31	18	14	16	23
21	32	37	45	31	42	35	35	28	16	13	15	21
22	31	34	43	32	39	33	33	46	18	12	14	20
23	30	32	42	31	38	31	33	101	23	13	13	19
24	30	33	42	e31	38	31	36	67	22	12	13	18
25	31	34	38	e31	36	31	32	32	18	11	12	17
26	33	31	37	e31	35	31	38	26	25	16	12	16
27	48	31	36	e30	36	31	40	42	18	81	12	20
28	38	40	36	e35	36	31	32	27	17	48	20	2,470
29	35	43	36	37	34	30	30	25	17	21	23	348
30	32	34	38	35	---	32	30	23	16	29	16	191
31	32	---	35	37	---	44	---	28	---	19	16	---
TOTAL	1,023	1,196	1,880	1,053	2,108	1,128	1,453	1,257	614	616	640	4,151
MEAN	33.0	39.9	60.6	34.0	72.7	36.4	48.4	40.5	20.5	19.9	20.6	138
MAX	48	129	164	43	395	63	226	101	28	81	94	2,470
MIN	30	29	30	30	33	30	29	23	16	11	11	10
CFSM	0.77	0.93	1.42	0.79	1.70	0.85	1.13	0.95	0.48	0.46	0.48	3.23
IN.	0.89	1.04	1.63	0.92	1.83	0.98	1.26	1.09	0.53	0.54	0.56	3.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY)

MEAN	35.3	32.4	46.3	58.1	64.6	81.6	61.0	44.7	38.9	31.5	30.6	32.5
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1960 - 2004	
ANNUAL TOTAL	30,060		17,119		46.3	
ANNUAL MEAN	82.4		46.8		84.9	
HIGHEST ANNUAL MEAN					19.9	2003
LOWEST ANNUAL MEAN					19.9	2002
HIGHEST DAILY MEAN	2,780	Mar 20	2,470	Sep 28	3,350	Jun 21, 1972
LOWEST DAILY MEAN	19	Jan 28	10	Sep 6	1.4	Aug 21, 2002
ANNUAL SEVEN-DAY MINIMUM	21	Jan 22	12	Aug 31	1.6	Aug 19, 2002
MAXIMUM PEAK FLOW			6,840	Sep 28	9,400*	Sep 22, 1979
MAXIMUM PEAK STAGE			15.82	Sep 28	20.29	Sep 22, 1979
INSTANTANEOUS LOW FLOW			9.8	Sep 6	1.2*	Aug 24, 2002
ANNUAL RUNOFF (CFSM)	1.92		1.09		1.08	
ANNUAL RUNOFF (INCHES)	26.13		14.88		14.69	
10 PERCENT EXCEEDS	125		65		74	
50 PERCENT EXCEEDS	42		32		26	
90 PERCENT EXCEEDS	30		16		12	

* See REMARKS.

e Estimated.

