

Water-Data Report 2008

02114450 LITTLE YADKIN RIVER AT DALTON, NC

Upper Pee Dee Basin
Upper Yadkin Subbasin

LOCATION.--Lat 36°17'57", long 80°24'53" referenced to North American Datum of 1983, Stokes County, NC, Hydrologic Unit 03040101, on left bank 1,200 ft downstream of bridge on U.S. Highway 52, 1.3 mi downstream of Southern Railway bridge, 2.0 mi downstream of Danbury Creek, and 1.0 mi southwest of Dalton.

DRAINAGE AREA.--42.8 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WSP 2104: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 813.7 ft above NGVD of 1929. 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 August 25, 26, 2002. Minimum discharge for current water year also occurred August 22.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.0	11	10	52	101	16	29	31	12	10	7.3	9.4
2	5.2	9.8	10	33	75	15	24	27	11	6.9	6.8	8.3
3	5.4	8.8	11	25	37	15	23	25	15	5.8	9.4	7.6
4	5.9	8.5	10	24	36	60	82	23	21	5.8	5.4	7.1
5	6.2	7.9	11	21	55	145	88	21	13	11	4.3	6.8
6	5.7	7.9	11	19	37	46	299	20	11	96	4.0	7.1
7	5.7	7.8	10	18	30	83	105	19	10	21	3.7	6.7
8	5.3	8.1	11	17	25	114	62	20	9.4	15	3.5	6.5
9	5.0	8.4	10	16	22	60	46	360	8.7	29	2.9	6.8
10	4.9	8.6	10	16	20	38	38	75	7.9	37	2.6	8.2
11	4.7	8.4	11	19	18	31	34	52	7.4	20	2.8	10
12	4.6	8.6	10	17	18	27	37	44	7.2	14	2.2	9.4
13	4.7	8.9	10	16	29	24	33	30	7.6	17	2.1	9.1
14	5.0	9.3	10	15	27	22	29	25	8.0	27	20	8.1
15	5.0	11	10	14	22	23	27	25	13	13	20	7.6
16	5.0	10	25	14	21	25	25	26	8.8	10	7.3	14
17	5.1	9.7	14	17	20	20	24	21	7.3	8.6	5.2	13
18	5.6	9.6	11	19	22	19	23	20	6.2	e7.4	4.1	9.1
19	7.6	9.5	11	18	19	21	23	20	5.7	e6.4	3.5	8.0
20	9.6	9.7	11	16	17	31	33	18	5.7	e5.7	3.0	7.7
21	6.3	9.8	12	15	17	23	27	17	5.6	e5.0	2.8	7.4
22	6.1	11	11	15	17	21	33	16	5.9	e4.6	2.6	7.3
23	6.5	11	18	15	17	19	28	15	6.5	24	2.2	6.9
24	7.7	9.6	21	15	17	19	25	15	6.3	18	2.2	6.8
25	38	9.9	15	14	17	18	24	14	5.1	7.7	2.0	6.6
26	377	13	61	14	19	17	22	14	4.5	5.9	3.6	15
27	81	13	40	14	19	17	44	14	5.0	5.6	302	107
28	28	11	41	13	17	17	74	15	5.9	4.9	72	41
29	18	11	106	14	16	18	62	15	12	4.3	25	19
30	14	10	228	15	---	17	38	13	31	4.0	14	14
31	12	---	144	13	---	23	---	13	---	4.2	11	---
Total	705.8	290.8	924	563	807	1,044	1,461	1,063	283.7	454.8	559.5	401.5
Mean	22.8	9.69	29.8	18.2	27.8	33.7	48.7	34.3	9.46	14.7	18.0	13.4
Max	377	13	228	52	101	145	299	360	31	96	302	107
Min	4.6	7.8	10	13	16	15	22	13	4.5	4.0	2.0	6.5
Cfs/m	0.53	0.23	0.70	0.42	0.65	0.79	1.14	0.80	0.22	0.34	0.42	0.31
In.	0.61	0.25	0.80	0.49	0.70	0.91	1.27	0.92	0.25	0.40	0.49	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	35.8	32.8	46.2	58.8	62.0	78.7	58.9	43.1	37.4	31.3	29.2	31.3
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

	Calendar Year 2007		Water Year 2008		Water Years 1960 - 2008	
Annual total	12,050.9		8,558.1			
Annual mean	33.0		23.4		45.3	
Highest annual mean					84.9	2003
Lowest annual mean					19.9	2002
Highest daily mean	1,440	Jan 1	377	Oct 26	3,350	Jun 21, 1972
Lowest daily mean	1.4	Sep 7	2.0	Aug 25	1.4	Aug 21, 2002
Annual seven-day minimum	1.4	Sep 6	2.6	Aug 19	1.4	Sep 6, 2007
Maximum peak flow			1,350	Aug 27	^a 9,400	Sep 22, 1979
Maximum peak stage			4.45	Aug 27	20.29	Sep 22, 1979
Instantaneous low flow			^a 1.6	Aug 13	^a 1.2	Aug 24, 2002
Annual runoff (cfs)	0.771		0.546		1.06	
Annual runoff (inches)	10.47		7.44		14.37	
10 percent exceeds	48		39		73	
50 percent exceeds	13		14		26	
90 percent exceeds	4.5		5.1		11	

^aSee Remarks.