

Water-Data Report 2007

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. Datum of gage is 813.7 ft above NGVD of 1929 (North Carolina State Highway Commission benchmark). 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 September 7-12.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	16	26	28	1,440	27	62	29	23	12	12	6.9	2.6
2	14	33	26	312	28	843	28	22	12	9.6	6.0	2.9
3	14	26	24	128	27	144	27	21	29	8.9	5.8	2.4
4	13	24	24	75	26	72	26	25	26	8.3	7.3	2.2
5	54	23	23	160	26	51	25	27	16	8.0	5.8	2.0
6	79	22	23	138	e26	43	26	25	14	25	5.5	1.5
7	28	41	23	86	26	40	26	22	12	12	4.9	1.4
8	57	157	22	489	25	37	26	21	12	9.8	4.5	1.4
9	31	65	22	126	24	35	26	21	14	8.5	4.1	1.4
10	23	40	22	71	25	33	26	21	11	9.4	3.8	1.4
11	21	33	22	54	24	33	31	21	11	12	4.5	1.4
12	89	34	22	47	24	31	55	25	14	9.6	4.0	1.6
13	23	29	24	43	49	31	35	20	12	8.0	3.6	1.8
14	18	28	24	40	315	30	31	18	12	8.1	3.2	172
15	17	26	23	38	74	30	134	18	13	7.4	3.1	68
16	16	445	22	36	47	125	157	18	13	7.2	3.1	17
17	37	116	21	32	39	92	62	18	13	15	2.6	10
18	43	57	21	33	35	52	45	19	11	10	2.3	8.4
19	27	41	21	33	32	42	39	17	9.4	8.3	2.1	7.5
20	42	34	21	30	31	38	37	16	12	7.0	2.1	7.2
21	29	31	21	32	33	37	34	16	8.8	6.6	2.3	6.9
22	24	92	34	44	31	34	32	16	8.1	5.9	2.2	7.3
23	22	96	44	35	28	33	30	16	7.6	5.3	2.4	6.8
24	21	52	30	32	27	32	29	15	7.4	11	2.4	6.1
25	20	40	198	31	51	31	28	15	11	14	2.3	5.9
26	21	34	147	29	59	30	26	14	9.9	11	2.0	5.8
27	30	32	65	29	41	30	30	14	16	8.8	2.7	5.7
28	203	30	44	29	35	29	26	13	21	8.6	2.0	5.5
29	62	28	35	27	---	33	24	13	12	8.2	1.9	5.0
30	35	28	31	27	---	30	23	15	13	9.1	3.0	5.0
31	29	---	32	27	---	29	---	13	---	8.0	3.0	---
Total	1,158	1,763	1,139	3,753	1,235	2,212	1,173	578	393.2	300.6	111.4	374.1
Mean	37.4	58.8	36.7	121	44.1	71.4	39.1	18.6	13.1	9.70	3.59	12.5
Max	203	445	198	1,440	315	843	157	27	29	25	7.3	172
Min	13	22	21	27	24	29	23	13	7.4	5.3	1.9	1.4
Cfsm	0.87	1.37	0.86	2.83	1.03	1.67	0.91	0.44	0.31	0.23	0.08	0.29
In.	1.01	1.53	0.99	3.26	1.07	1.92	1.02	0.50	0.34	0.26	0.10	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	36.1	33.3	46.5	59.7	62.8	79.6	59.1	43.3	37.9	31.7	29.5	31.7
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 2006		Water Year 2007		Water Years 1960 - 2007	
Annual total	12,467.1		14,190.3			
Annual mean	34.2		38.9		45.7	
Highest annual mean					84.9	2003
Lowest annual mean					19.9	2002
Highest daily mean	521	Jan 14	1,440	Jan 1	3,350	Jun 21, 1972
Lowest daily mean	8.5	Aug 29	1.4	Sep 7	1.4	Aug 21, 2002
Annual seven-day minimum	11	Aug 23	1.4	Sep 6	1.4	Sep 6, 2007
Maximum peak flow			3,770	Jan 1	^a 9,400	Sep 22, 1979
Maximum peak stage			9.88	Jan 1	20.29	Sep 22, 1979
Instantaneous low flow			^a 1.3	Sep 6	^a 1.2	Aug 24, 2002
Annual runoff (cfsm)	0.798		0.908		1.07	
Annual runoff (inches)	10.84		12.33		14.52	
10 percent exceeds	57		60		73	
50 percent exceeds	23		24		26	
90 percent exceeds	13		4.5		12	

^a See Remarks.

