

Water-Data Report 2010

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 U.S. Highway 52 bridge, 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 National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records fair. 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 the current water year also occurred September 21.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.4	204	18	35	42	34	46	24	36	13	21	11
2	7.5	51	83	32	92	35	41	24	26	11	16	10
3	7.9	25	128	35	217	36	38	27	22	11	15	9.4
4	7.5	17	46	35	134	34	36	26	21	10	14	8.8
5	7.5	16	48	26	391	32	34	22	21	9.9	16	8.2
6	8.3	14	47	25	487	31	33	21	19	9.3	25	8.3
7	9.2	13	33	25	172	31	32	20	17	8.5	15	8.3
8	8.1	13	29	24	110	30	57	20	16	8.1	12	8.9
9	7.6	13	474	26	81	30	136	18	16	15	11	9.7
10	9.3	16	116	22	78	30	57	18	18	15	10	8.1
11	9.7	512	55	23	61	31	45	19	17	11	12	8.3
12	9.9	491	37	23	55	39	38	21	17	11	132	10
13	12	147	152	23	51	308	35	20	76	22	23	8.8
14	13	64	104	22	46	113	33	20	62	23	15	7.7
15	15	37	56	23	47	66	33	22	44	14	22	7.1
16	13	28	39	22	46	50	31	24	28	11	22	6.7
17	12	24	33	167	42	44	30	155	24	87	19	6.6
18	11	23	33	84	39	40	28	60	20	53	73	6.5
19	11	24	45	47	38	37	27	36	19	31	70	6.1
20	11	21	34	36	38	35	27	29	18	21	74	6.5
21	11	20	34	41	38	34	36	25	16	17	29	5.7
22	11	18	36	66	44	42	30	27	16	15	21	6.1
23	12	26	38	43	46	38	27	64	20	17	18	6.9
24	18	23	38	101	44	34	27	33	20	13	16	6.9
25	17	21	373	1,590	42	33	34	28	15	12	20	6.5
26	14	20	247	290	37	43	29	26	15	11	17	13
27	15	19	101	120	36	37	26	23	14	17	14	105
28	46	18	62	70	35	52	26	21	13	16	13	78
29	19	17	45	52	---	176	24	42	19	13	13	25
30	16	18	37	60	---	81	24	25	14	11	12	112
31	16	---	37	48	---	55	---	40	---	13	11	---
Total	392.9	1,953	2,658	3,236	2,589	1,711	1,120	980	699	549.8	801	530.1
Mean	12.7	65.1	85.7	104	92.5	55.2	37.3	31.6	23.3	17.7	25.8	17.7
Max	46	512	474	1,590	487	308	136	155	76	87	132	112
Min	7.4	13	18	22	35	30	24	18	13	8.1	10	5.7
Cfsm	0.30	1.52	2.00	2.44	2.16	1.29	0.87	0.74	0.54	0.41	0.60	0.41
In.	0.34	1.70	2.31	2.81	2.25	1.49	0.97	0.85	0.61	0.48	0.70	0.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	34.9	33.2	46.9	59.3	61.8	77.8	57.9	42.9	38.0	30.7	28.8	30.6
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	17.8	20.1	18.0	13.1	7.15	4.27	3.51	5.08
(WY)	(1987)	(2002)	(2001)	(1981)	(2009)	(1967)	(1967)	(2002)	(1986)	(1986)	(2002)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1960 - 2010	
Annual total	14,446.1		17,219.8			
Annual mean	39.6		47.2		45.1	
Highest annual mean					84.9	2003
Lowest annual mean					19.9	2002
Highest daily mean	861	Jun 5	1,590	Jan 25	3,350	Jun 21, 1972
Lowest daily mean	4.8	Sep 15	5.7	Sep 21	1.4	Aug 21, 2002
Annual seven-day minimum	5.5	Sep 9	6.3	Sep 16	1.4	Sep 6, 2007
Maximum peak flow			5,420	Jan 25	^a 9,400	Sep 22, 1979
Maximum peak stage			13.16	Jan 25	20.29	Sep 22, 1979
Instantaneous low flow			^a 5.0	Sep 19	^a 1.2	Aug 24, 2002
Annual runoff (cfsm)	0.925		1.10		1.05	
Annual runoff (inches)	12.56		14.97		14.32	
10 percent exceeds	62		81		72	
50 percent exceeds	19		25		25	
90 percent exceeds	8.3		9.8		11	

^a See Remarks.

