

Water-Data Report 2007

**02111500 REDDIES RIVER AT NORTH WILKESBORO, NC**

Upper Pee Dee Basin  
Upper Yadkin Subbasin

LOCATION.--Lat 36°10'30", long 81°10'08" referenced to North American Datum of 1983, Wilkes County, NC, Hydrologic Unit 03040101, on left bank 550 ft upstream from bridge on Secondary Road 1517, 1.4 mi upstream from North Wilkesboro municipal dam, 1.2 mi northwest of North Wilkesboro, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--89.2 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1433: 1944. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 978.62 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Slight diurnal fluctuation at low flow during growing season.

Maximum discharge for period of record, from rating curve extended above 5,600 ft<sup>3</sup>/s on basis of computation of peak flow over dam; gage height: 22.02 ft. Minimum discharge for period of record also occurred August 15, 2002. Minimum discharge for current water year also occurred September 13.

## 02111500 REDDIES RIVER AT NORTH WILKESBORO, NC—Continued

**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	59	73	158	1,290	118	133	122	103	70	64	69	42
2	57	79	139	372	119	836	120	100	71	57	57	42
3	56	70	113	257	114	262	115	100	79	56	53	38
4	55	67	103	214	110	190	115	109	78	54	68	36
5	55	66	96	233	e108	162	110	107	68	53	54	34
6	66	66	91	229	e106	147	108	104	67	58	52	33
7	56	112	89	213	e106	138	108	97	64	51	50	31
8	74	543	84	537	e104	132	106	96	62	50	51	31
9	67	205	84	307	105	126	106	96	60	48	47	30
10	59	141	82	236	104	123	104	94	59	61	44	29
11	56	120	81	204	e102	120	110	100	59	65	44	30
12	59	140	79	188	103	115	139	95	63	54	43	30
13	54	113	80	178	111	115	111	92	61	48	43	29
14	53	105	78	169	148	113	109	86	65	50	40	121
15	53	100	78	163	112	111	349	85	84	61	39	96
16	53	632	76	156	e106	494	316	85	74	51	38	48
17	155	279	75	146	e104	282	182	84	66	94	37	43
18	116	186	73	144	103	195	155	81	60	73	36	42
19	79	153	73	143	e101	167	144	80	59	56	34	40
20	86	132	72	137	101	156	140	79	69	56	34	39
21	74	117	72	140	111	160	129	78	57	53	35	40
22	69	122	580	165	106	146	124	77	55	49	37	44
23	65	119	422	148	99	140	120	76	54	48	34	46
24	63	103	205	138	97	135	118	77	59	74	36	40
25	61	97	334	134	125	131	118	75	115	82	36	e40
26	61	92	323	129	124	128	114	74	61	81	38	e39
27	73	89	214	129	110	125	121	73	57	75	48	e38
28	175	87	174	127	105	123	111	70	61	60	40	e37
29	99	85	154	e121	---	136	108	70	77	57	57	e34
30	83	93	142	120	---	126	105	67	102	73	43	e33
31	77	---	192	118	---	122	---	67	---	79	50	---
<b>Total</b>	2,268	4,386	4,616	6,985	3,062	5,589	4,037	2,677	2,036	1,891	1,387	1,255
<b>Mean</b>	73.2	146	149	225	109	180	135	86.4	67.9	61.0	44.7	41.8
<b>Max</b>	175	632	580	1,290	148	836	349	109	115	94	69	121
<b>Min</b>	53	66	72	118	97	111	104	67	54	48	34	29
<b>Cfsm</b>	0.82	1.64	1.67	2.53	1.23	2.02	1.51	0.97	0.76	0.68	0.50	0.47
<b>In.</b>	0.95	1.83	1.93	2.91	1.28	2.33	1.68	1.12	0.85	0.79	0.58	0.52

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	107	118	129	143	160	188	189	153	144	120	120	113
<b>Max</b>	309	379	273	374	386	405	536	353	412	335	587	479
<b>(WY)</b>	(1977)	(1978)	(1974)	(1996)	(1960)	(1975)	(1980)	(1973)	(1976)	(1941)	(1940)	(1945)
<b>Min</b>	33.1	35.1	44.3	44.5	50.6	77.3	68.1	47.8	32.8	31.8	22.1	30.8
<b>(WY)</b>	(2001)	(2002)	(2001)	(1956)	(2001)	(1940)	(2001)	(2002)	(2002)	(2002)	(2002)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1940 - 2007	
<b>Annual total</b>	37,388		40,189			
<b>Annual mean</b>	102		110		140	
<b>Highest annual mean</b>					218	1973
<b>Lowest annual mean</b>					51.0	2002
<b>Highest daily mean</b>	875	Jun 27	1,290	Jan 1	7,600	Aug 14, 1940
<b>Lowest daily mean</b>	41	Jun 21	29	Sep 10	13	Aug 14, 2002
<b>Annual seven-day minimum</b>	43	Jun 16	30	Sep 7	14	Aug 8, 2002
<b>Maximum peak flow</b>			3,010	Jan 1	<sup>a</sup> 27,000	Aug 14, 1940
<b>Maximum peak stage</b>			7.36	Jan 1	22.02	Aug 14, 1940
<b>Instantaneous low flow</b>			<sup>a</sup> 28	Sep 10	<sup>a</sup> 12	Aug 14, 2002
<b>Annual runoff (cfsm)</b>	1.15		1.23		1.57	
<b>Annual runoff (inches)</b>	15.59		16.76		21.38	
<b>10 percent exceeds</b>	153		171		227	
<b>50 percent exceeds</b>	80		86		110	
<b>90 percent exceeds</b>	53		42		57	

<sup>a</sup> See Remarks.

