

Water-Data Report 2008

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 mi².

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 ft³/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.

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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	e34	54	45	98	141	59	73	77	42	31	21	47
2	34	52	44	80	124	58	71	73	41	27	19	42
3	34	51	45	e72	87	57	69	69	40	26	19	38
4	34	49	44	e67	87	86	93	68	41	25	18	36
5	35	49	44	e64	101	278	88	63	39	29	17	34
6	36	49	44	62	98	130	242	61	37	36	16	33
7	36	47	43	60	128	160	151	59	35	35	16	31
8	34	46	44	58	97	202	120	62	45	33	18	31
9	32	47	44	57	84	150	105	71	36	33	17	172
10	30	47	44	58	75	121	97	59	35	41	16	80
11	28	46	44	69	69	106	91	57	35	43	15	79
12	28	46	44	63	67	95	90	66	34	32	14	67
13	29	47	43	58	76	87	83	55	35	46	26	57
14	30	48	43	56	69	83	80	53	47	36	22	48
15	30	52	43	54	64	85	77	55	44	30	19	43
16	30	46	70	53	63	99	74	63	36	27	18	68
17	30	45	53	58	62	80	73	55	32	26	17	62
18	32	45	47	63	106	77	70	52	30	24	15	48
19	33	45	46	62	83	104	73	53	29	23	15	42
20	48	45	45	58	75	221	90	50	29	23	15	40
21	35	45	58	e56	70	133	75	50	29	22	14	38
22	34	45	55	e56	68	112	71	48	35	21	14	37
23	39	44	175	55	66	99	69	46	57	23	14	36
24	65	43	129	54	63	91	67	47	35	25	14	35
25	372	44	79	e52	62	85	65	46	30	21	14	34
26	274	55	72	e52	67	81	67	44	29	20	26	42
27	150	63	68	51	69	78	70	44	29	21	940	192
28	84	49	82	50	61	76	122	46	29	20	179	115
29	67	47	147	50	59	76	103	56	29	21	104	75
30	60	46	129	53	---	75	83	47	42	22	67	60
31	57	---	143	49	---	73	---	45	---	22	51	---
Total	1,894	1,437	2,056	1,848	2,341	3,317	2,702	1,740	1,086	864	1,790	1,762
Mean	61.1	47.9	66.3	59.6	80.7	107	90.1	56.1	36.2	27.9	57.7	58.7
Max	372	63	175	98	141	278	242	77	57	46	940	192
Min	28	43	43	49	59	57	65	44	29	20	14	31
Cfsm	0.68	0.54	0.74	0.67	0.90	1.20	1.01	0.63	0.41	0.31	0.65	0.66
In.	0.79	0.60	0.86	0.77	0.98	1.38	1.13	0.73	0.45	0.36	0.75	0.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	106	117	128	141	159	187	188	152	142	119	120	112
Max	309	379	273	374	386	405	536	353	412	335	587	479
(WY)	(1977)	(1978)	(1974)	(1996)	(1960)	(1975)	(1980)	(1973)	(1976)	(1941)	(1940)	(1945)
Min	33.1	35.1	44.3	44.5	50.6	77.3	68.1	47.8	32.8	27.9	22.1	30.8
(WY)	(2001)	(2002)	(2001)	(1956)	(2001)	(1940)	(2001)	(2002)	(2002)	(2008)	(2002)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1940 - 2008	
Annual total	34,306		22,837			
Annual mean	94.0		62.4		139	
Highest annual mean					218	
Lowest annual mean					51.0	
Highest daily mean	1,290	Jan 1	940	Aug 27	7,600	Aug 14, 1940
Lowest daily mean	28	Oct 11	14	Aug 12	13	Aug 14, 2002
Annual seven-day minimum	29	Oct 10	14	Aug 19	14	Aug 19, 2008
Maximum peak flow			2,490	Aug 27	^a 27,000	Aug 14, 1940
Maximum peak stage			6.60	Aug 27	22.02	Aug 14, 1940
Instantaneous low flow			13	Aug 24	^a 12	Aug 14, 2002
Annual runoff (cfs)	1.05		0.700		1.56	
Annual runoff (inches)	14.31		9.52		21.20	
10 percent exceeds	148		100		226	
50 percent exceeds	69		50		109	
90 percent exceeds	36		24		55	

^aSee Remarks.