

02111500 REDDIES RIVER AT NORTH WILKESBORO, NC

LOCATION.--Lat 36°10'29", long 81°10'08", Wilkes County, 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.

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 Aug. 15, 2002. Minimum discharge for current water year also occurred Oct. 15.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	69	69	148	81	168	182	322	140	251	263	359
2	57	63	67	142	78	164	175	237	130	1,350	239	231
3	52	59	67	185	78	150	165	211	157	667	477	238
4	48	57	70	170	94	140	159	200	249	353	410	271
5	46	62	118	148	83	138	160	240	173	407	303	227
6	42	111	103	135	79	177	149	245	148	435	263	199
7	41	76	88	123	87	150	185	224	802	610	676	190
8	40	69	82	119	80	140	176	205	618	348	543	183
9	39	64	84	114	78	135	301	190	516	307	546	175
10	39	65	82	107	82	128	1,690	180	276	287	457	167
11	62	479	254	101	81	123	873	175	223	336	327	164
12	51	290	185	96	80	120	419	165	240	262	297	160
13	43	207	298	95	77	118	315	157	311	260	315	158
14	40	145	308	94	79	119	269	153	387	242	265	155
15	47	117	192	91	107	112	243	159	247	250	253	157
16	364	211	153	89	149	497	227	164	364	222	261	152
17	155	350	132	91	132	323	214	156	539	210	235	145
18	92	207	118	e88	133	244	584	168	343	198	219	145
19	74	155	111	e86	154	210	473	161	831	196	210	148
20	65	130	226	e84	155	821	339	153	353	193	204	139
21	64	125	160	e83	151	433	302	152	273	195	207	137
22	65	113	137	e88	986	289	277	172	236	301	198	191
23	57	99	122	e83	563	235	248	184	212	267	195	361
24	54	92	198	e83	292	207	232	170	195	208	186	171
25	54	87	212	e81	216	189	226	156	182	188	181	156
26	64	83	162	e79	184	178	229	190	175	178	176	150
27	55	80	142	e79	186	167	208	158	179	174	172	193
28	63	76	130	e78	189	160	198	147	177	171	173	265
29	81	74	121	80	---	163	192	146	409	192	221	173
30	88	73	113	87	---	245	219	142	245	274	292	157
31	80	---	108	84	---	202	---	153	---	223	512	---
TOTAL	2,189	3,888	4,412	3,211	4,734	6,645	9,629	5,635	9,330	9,755	9,276	5,717
MEAN	70.6	130	142	104	169	214	321	182	311	315	299	191
MAX	364	479	308	185	986	821	1,690	322	831	1,350	676	361
MIN	39	57	67	78	77	112	149	142	130	171	172	137
CFSM	0.79	1.45	1.60	1.16	1.90	2.40	3.60	2.04	3.49	3.53	3.35	2.14
IN.	0.91	1.62	1.84	1.34	1.97	2.77	4.02	2.35	3.89	4.07	3.87	2.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)

MEAN	107	116	127	141	162	191	192	157	145	121	123	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	31.8	22.1	30.8
(WY)	(2001)	(2002)	(2001)	(1956)	(2001)	(1940)	(2001)	(2002)	(2002)	(2002)	(2002)	(1954)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1940 - 2003	
ANNUAL TOTAL	25,206		74,421		141	
ANNUAL MEAN	69.1		204		218	
HIGHEST ANNUAL MEAN					51.0	1973
LOWEST ANNUAL MEAN					14	2002
HIGHEST DAILY MEAN	671	Sep 27	1,690	Apr 10	7,600	Aug 14, 1940
LOWEST DAILY MEAN	13	Aug 14	39	Oct 9	13	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	14	Aug 8	42	Oct 4	14	Aug 8, 2002
MAXIMUM PEAK FLOW			3,320	Apr 10	27,000*	Aug 14, 1940
MAXIMUM PEAK STAGE			7.76	Apr 10	22.02	Aug 14, 1940
INSTANTANEOUS LOW FLOW			38*	Oct 9	12*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	0.77		2.29		1.58	
ANNUAL RUNOFF (INCHES)	10.51		31.04		21.48	
10 PERCENT EXCEEDS	130		351		230	
50 PERCENT EXCEEDS	52		168		110	
90 PERCENT EXCEEDS	22		72		57	

e Estimated.
 * See REMARKS.

