

02112120 ROARING RIVER NEAR ROARING RIVER, NC

LOCATION.--Lat 36°14'59", long 81°02'38", Wilkes County, Hydrologic Unit 03040101, on left bank at downstream end of old bridge pier, 800 ft upstream from bridge on Secondary Road 1990, 3.8 mi northwest of Roaring River, and 4.1 mi upstream from mouth.

DRAINAGE AREA.--128 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements water years 1925, 1947, 1949-56, 1963. April 1964 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 964.85 ft above NGVD of 1929. Prior to May 1, 1964, nonrecording gage on downstream side of bridge at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 2,400 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow at gage heights 22.54, 14.40, and 10.83 ft. Minimum discharge for period of record also occurred Aug. 15, 24, 25, Sept. 11, 12, 13, 14, 2002. Minimum discharge for current water year also occurred Oct. 10.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 reached a stage of about 28 ft; estimated discharge, 45,000 ft<sup>3</sup>/s. The flood of August 1940 reached a stage of about 24 ft; estimated discharge, 31,000 ft<sup>3</sup>/s, from information by local residents and rating curve extended as explained above. A discharge of 24 ft<sup>3</sup>/s was measured Sept. 18, 1956.

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	85	95	89	203	100	217	198	335	175	226	266	367
2	75	87	86	198	96	211	188	267	162	792	282	238
3	69	81	85	303	95	184	177	259	192	573	322	220
4	64	78	86	266	124	169	169	256	370	357	309	331
5	61	87	151	219	109	162	172	303	238	368	270	266
6	56	172	130	194	101	227	158	317	193	399	258	213
7	55	113	117	174	114	184	211	285	1,220	467	335	199
8	54	99	109	167	104	167	198	261	838	337	320	189
9	52	92	114	156	98	157	407	240	544	340	341	180
10	53	92	109	146	104	144	2,120	229	355	317	368	172
11	97	925	316	136	103	136	1,110	223	291	392	362	165
12	74	492	246	128	101	131	582	212	318	282	289	161
13	61	319	399	125	96	130	452	198	376	311	262	159
14	56	213	414	124	101	129	380	190	394	257	251	155
15	62	170	258	118	138	118	338	190	360	245	278	158
16	392	294	202	114	235	427	309	211	599	271	262	157
17	181	466	172	117	191	298	288	195	1,200	251	233	144
18	114	282	153	e108	196	253	658	207	630	237	210	145
19	93	212	143	e105	228	224	663	196	1,770	249	197	151
20	83	178	349	e102	232	1,340	483	193	607	218	191	140
21	81	169	237	e102	223	610	423	192	441	239	186	137
22	84	152	192	e102	1,540	389	383	220	360	395	201	184
23	75	133	170	e108	805	302	337	234	306	337	180	489
24	71	124	293	e102	412	257	309	217	274	248	169	196
25	71	117	304	e102	292	227	299	194	249	215	152	172
26	84	111	225	e100	241	208	358	227	232	200	144	162
27	74	106	193	e100	247	192	296	190	231	193	139	177
28	81	100	176	e97	257	181	270	178	220	188	155	252
29	109	96	162	101	---	185	255	180	223	214	152	171
30	125	94	149	109	---	281	260	179	213	245	192	158
31	112	---	142	104	---	225	---	182	---	224	406	---
TOTAL	2,804	5,749	5,971	4,330	6,683	8,065	12,451	6,960	13,581	9,587	7,682	6,008
MEAN	90.5	192	193	140	239	260	415	225	453	309	248	200
MAX	392	925	414	303	1,540	1,340	2,120	335	1,770	792	406	489
MIN	52	78	85	97	95	118	158	178	162	188	139	137
CFSM	0.71	1.50	1.50	1.09	1.86	2.03	3.24	1.75	3.54	2.42	1.94	1.56
IN.	0.81	1.67	1.74	1.26	1.94	2.34	3.62	2.02	3.95	2.79	2.23	1.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2003, BY WATER YEAR (WY)

MEAN	146	154	168	198	216	257	252	207	191	154	147	137
MAX	422	426	389	406	413	610	637	430	453	349	461	446
(WY)	(1977)	(1978)	(1997)	(1996)	(1990)	(1993)	(1980)	(1991)	(2003)	(1989)	(1994)	(1971)
MIN	42.0	46.9	59.2	70.2	67.4	97.4	100	66.2	39.5	48.3	23.6	48.2
(WY)	(2001)	(2002)	(2001)	(2001)	(2001)	(1988)	(1986)	(2002)	(2002)	(2002)	(2002)	(2001)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1964 - 2003	
ANNUAL TOTAL	34,666		89,871		186	
ANNUAL MEAN	95.0		246		69.8	
HIGHEST ANNUAL MEAN					269	1993
LOWEST ANNUAL MEAN					69.8	2002
HIGHEST DAILY MEAN	925	Nov 11	2,120	Apr 10	7,460	Aug 17, 1994
LOWEST DAILY MEAN	14	Aug 15	52	Oct 9	14	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	16	Aug 9	56	Oct 4	16	Aug 9, 2002
MAXIMUM PEAK FLOW			4,920	Apr 10	26,600*	Oct 17, 1975
MAXIMUM PEAK STAGE			8.81	Apr 10	22.54*	Oct 17, 1975
INSTANTANEOUS LOW FLOW			52*	Oct 9	14*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	0.74		1.92		1.45	
ANNUAL RUNOFF (INCHES)	10.07		26.12		19.73	
10 PERCENT EXCEEDS	179		394		307	
50 PERCENT EXCEEDS	71		196		140	
90 PERCENT EXCEEDS	27		95		73	

e Estimated.  
 \* See REMARKS.

