

02112120 ROARING RIVER NEAR ROARING RIVER, NC

LOCATION.--Lat 36°15'01", long 81°02'40", 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 mi².

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 fair. Maximum discharge for period of record, from rating curve extended above 2,400 ft³/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 Sept. 6.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 reached a stage of about 28 ft; estimated discharge, 45,000 ft³/s. The flood of August 1940 reached a stage of about 24 ft; estimated discharge, 31,000 ft³/s, from information by local residents and rating curve extended as explained above. A discharge of 24 ft³/s was measured Sept. 18, 1956.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	135	235	185	144	167	192	157	114	134	110	101
2	147	132	216	183	142	168	163	158	98	158	289	91
3	141	129	205	181	335	165	155	160	92	214	147	102
4	143	129	221	179	248	161	148	145	244	223	115	89
5	143	168	289	187	201	160	142	141	163	172	106	85
6	137	274	255	181	828	181	140	136	118	144	103	83
7	136	253	233	169	634	166	140	130	113	130	90	205
8	137	183	218	167	358	166	140	125	118	120	87	3,050
9	154	162	208	e167	285	161	137	133	154	112	85	1,020
10	158	153	454	e164	255	160	132	122	132	108	84	448
11	141	149	569	e164	236	154	134	118	137	106	159	308
12	137	147	362	e160	233	153	278	140	148	152	215	245
13	135	141	304	e160	221	147	502	128	228	154	181	209
14	141	128	356	e160	209	147	414	128	171	108	122	196
15	165	132	331	e157	207	150	274	121	169	97	112	185
16	134	134	307	154	203	215	227	117	261	91	104	173
17	132	135	374	154	191	182	204	125	223	96	99	1,320
18	132	132	328	182	191	167	190	137	160	198	128	873
19	129	1,930	294	164	189	162	179	122	135	223	100	449
20	127	656	266	152	186	154	173	116	129	146	92	331
21	127	403	245	150	186	155	168	116	201	112	93	277
22	124	316	237	150	178	148	160	113	394	104	88	239
23	121	271	230	147	175	146	155	134	203	103	86	213
24	121	268	230	147	175	144	153	126	166	95	105	195
25	121	260	213	e144	171	144	147	109	252	90	126	184
26	130	228	203	e144	170	143	235	108	444	92	96	173
27	394	214	199	e144	178	141	217	115	210	117	90	170
28	185	301	196	e144	173	141	169	108	176	150	93	1,590
29	159	311	192	150	168	138	158	105	155	101	105	517
30	144	259	205	154	---	147	153	102	142	143	93	355
31	138	---	189	150	---	204	---	135	---	141	105	---
TOTAL	4,588	8,233	8,364	4,994	7,070	4,937	5,779	3,930	5,450	4,134	3,608	13,476
MEAN	148	274	270	161	244	159	193	127	182	133	116	449
MAX	394	1,930	569	187	828	215	502	160	444	223	289	3,050
MIN	121	128	189	144	142	138	132	102	92	90	84	83
CFSM	1.16	2.14	2.11	1.26	1.90	1.24	1.50	0.99	1.42	1.04	0.91	3.51
IN.	1.33	2.39	2.43	1.45	2.05	1.43	1.68	1.14	1.58	1.20	1.05	3.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	146	157	170	197	217	255	250	205	190	153	146	145
MAX	422	426	389	406	413	610	637	430	453	349	461	449
(WY)	(1977)	(1978)	(1997)	(1996)	(1990)	(1993)	(1980)	(1991)	(2003)	(1989)	(1994)	(2004)
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	96,532		74,563		186	
ANNUAL MEAN	264		204		69.8	
HIGHEST ANNUAL MEAN					269	1993
LOWEST ANNUAL MEAN					69.8	2002
HIGHEST DAILY MEAN	2,120	Apr 10	3,050	Sep 8	7,460	Aug 17, 1994
LOWEST DAILY MEAN	95	Feb 3	83	Sep 6	14	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	100	Jan 28	94	Aug 31	16	Aug 9, 2002
MAXIMUM PEAK FLOW			6,180	Nov 19	26,600*	Oct 17, 1975
MAXIMUM PEAK STAGE			10.17	Nov 19	22.54*	Oct 17, 1975
INSTANTANEOUS LOW FLOW			79*	Aug 11	14*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	2.07		1.59		1.46	
ANNUAL RUNOFF (INCHES)	28.05		21.67		19.78	
10 PERCENT EXCEEDS	394		290		307	
50 PERCENT EXCEEDS	213		155		141	
90 PERCENT EXCEEDS	124		105		74	

* See REMARKS.

e Estimated.

