

02112120 ROARING RIVER NEAR ROARING RIVER, NC

LOCATION.--Lat 36°14'59", long 81°02'39", 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.

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.--No estimated daily discharges. Records good. 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 and current water year also occurred Aug. 15, 24, 25, Sept. 11, 12, 13, 14, 2002.

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	43	77	58	80	59	171	71	55	43	29	35
2	35	44	58	68	75	78	143	91	49	32	28	31
3	35	44	53	60	72	145	129	85	46	44	30	34
4	35	43	51	81	71	89	116	78	44	35	26	37
5	34	43	49	88	67	77	110	80	49	39	23	27
6	34	42	49	86	71	76	104	71	47	32	22	22
7	34	42	49	78	124	73	99	71	69	27	20	21
8	33	43	49	63	132	71	97	71	48	25	19	21
9	34	43	48	64	100	69	108	69	43	24	18	19
10	35	42	70	59	98	68	152	65	40	24	17	18
11	36	42	272	59	100	65	115	64	39	23	17	15
12	38	42	104	57	88	69	110	63	37	26	17	14
13	39	42	102	56	83	102	127	73	36	25	17	14
14	154	42	110	54	78	88	123	98	50	33	15	16
15	108	43	85	54	76	79	131	66	40	183	14	54
16	58	43	75	53	75	77	121	62	35	65	24	132
17	49	43	78	53	72	333	172	60	34	45	27	47
18	47	43	153	53	68	407	192	80	33	39	42	37
19	47	43	102	85	68	250	136	65	32	36	26	234
20	47	43	84	131	68	192	118	59	30	34	20	74
21	46	42	75	89	70	163	107	58	29	36	18	56
22	46	42	69	79	66	135	99	58	28	32	16	54
23	46	43	69	200	65	121	89	57	27	29	15	69
24	44	64	91	203	63	113	85	57	29	51	15	52
25	46	80	74	228	62	106	94	54	28	41	17	47
26	43	71	69	153	62	126	83	52	29	254	26	140
27	42	55	66	121	61	156	79	53	46	70	46	531
28	42	52	64	104	59	115	79	67	43	48	33	286
29	43	49	63	94	---	108	77	52	36	39	30	139
30	43	54	60	88	---	106	72	50	34	34	30	101
31	43	---	58	83	---	166	---	53	---	30	36	---
TOTAL	1452	1407	2476	2802	2174	3882	3438	2053	1185	1498	733	2377
MEAN	46.84	46.90	79.87	90.39	77.64	125.2	114.6	66.23	39.50	48.32	23.65	79.23
MAX	154	80	272	228	132	407	192	98	69	254	46	531
MIN	33	42	48	53	59	59	72	50	27	23	14	14
CFSM	0.37	0.37	0.62	0.71	0.61	0.98	0.90	0.52	0.31	0.38	0.18	0.62
IN.	0.42	0.41	0.72	0.81	0.63	1.13	1.00	0.60	0.34	0.44	0.21	0.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	147.3	153.5	167.3	199.0	215.8	257.4	247.7	206.3	183.8	149.7	144.7	135.8
MAX	422	426	389	406	413	610	637	430	432	349	461	446
(WY)	1977	1978	1997	1996	1990	1993	1980	1991	1975	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

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1964 - 2002

ANNUAL TOTAL	26582	25477		
ANNUAL MEAN	72.83	69.80	184.3	
HIGHEST ANNUAL MEAN			269	1993
LOWEST ANNUAL MEAN			69.8	2002
HIGHEST DAILY MEAN	717	Mar 30	531	Sep 27
LOWEST DAILY MEAN	32	Jul 24	14	Aug 15
ANNUAL SEVEN-DAY MINIMUM	34	Oct 3	16	Aug 9
MAXIMUM PEAK FLOW			1110	Sep 27
MAXIMUM PEAK STAGE			3.62	Sep 27
INSTANTANEOUS LOW FLOW			14*	Aug 14
ANNUAL RUNOFF (CFSM)	0.57	0.55	1.44	
ANNUAL RUNOFF (INCHES)	7.73	7.40	19.56	
10 PERCENT EXCEEDS	110	125	304	
50 PERCENT EXCEEDS	60	57	139	
90 PERCENT EXCEEDS	39	27	72	

* See REMARKS.

02112120 ROARING RIVER NEAR ROARING RIVER, NC--Continued

