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 mi^2.

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 sea level. 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^3/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 July 24, 2001.

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

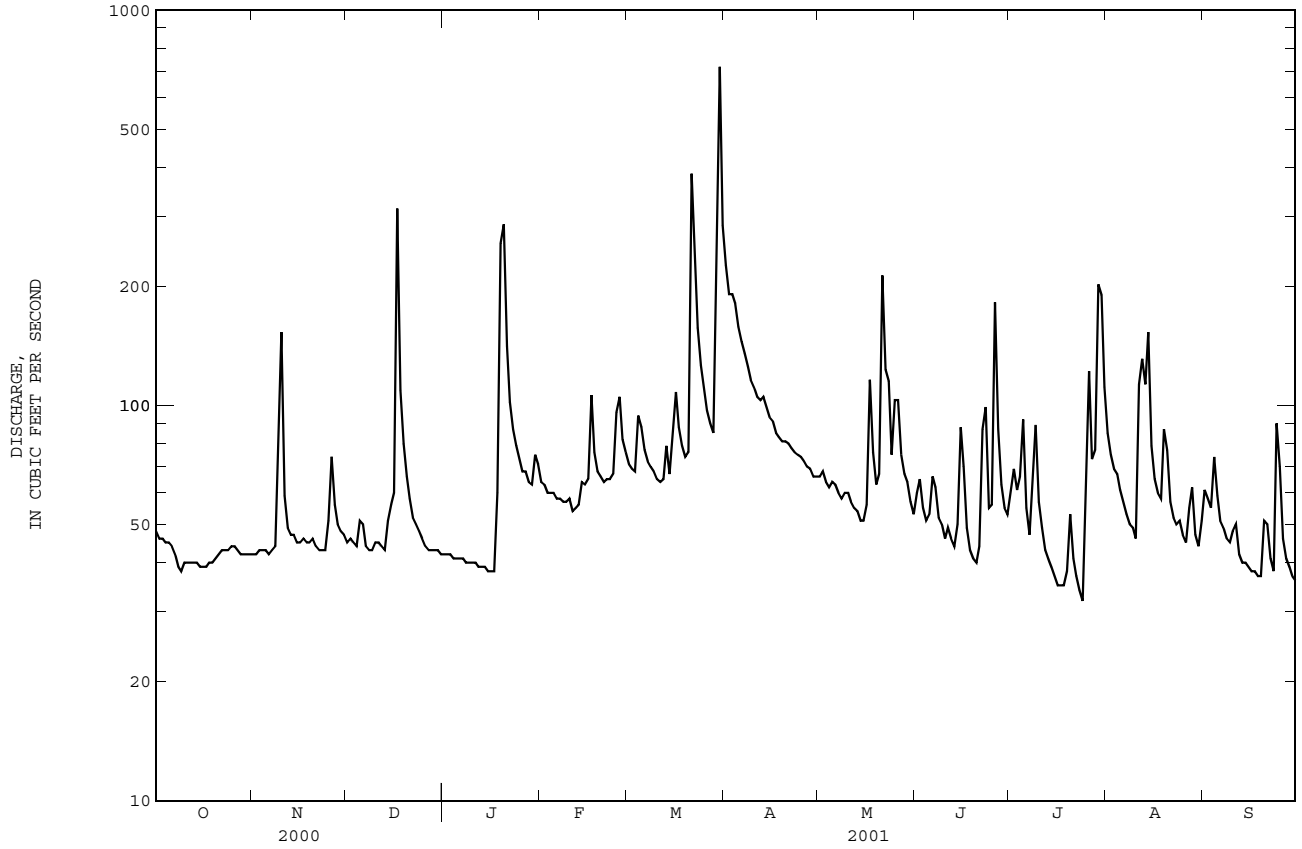
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	42	45	e42	64	71	226	66	60	60	85	61
2	46	42	46	e42	63	69	191	68	65	69	75	58
3	46	43	45	e42	60	68	191	64	55	61	69	55
4	45	43	44	e41	60	94	181	62	51	66	67	74
5	45	43	51	e41	60	88	158	64	53	92	61	59
6	44	42	50	e41	58	77	145	63	66	55	57	51
7	42	43	44	e41	58	72	135	60	62	47	53	49
8	39	44	43	e40	57	70	125	58	52	63	50	46
9	38	74	43	e40	57	68	116	60	50	89	49	45
10	40	153	45	e40	58	65	111	60	46	57	46	48
11	40	59	45	e40	54	64	105	57	49	49	113	50
12	40	49	44	e39	55	65	103	55	46	43	131	42
13	40	47	43	e39	56	79	105	54	44	41	113	40
14	40	47	51	e39	64	67	99	51	50	39	153	40
15	39	45	56	e38	63	85	93	51	88	37	79	39
16	39	45	60	e38	65	108	91	56	70	35	65	38
17	39	46	314	e38	106	88	85	116	49	35	60	38
18	40	45	109	e60	76	79	83	76	43	35	58	37
19	40	45	e80	257	68	74	81	63	41	38	87	37
20	41	46	e66	287	66	76	81	67	40	53	77	51
21	42	44	e58	141	64	385	80	213	44	41	57	50
22	43	43	e52	102	65	229	78	123	87	37	52	41
23	43	43	e50	87	65	157	76	115	99	34	50	38
24	43	43	e48	79	67	126	75	75	55	32	51	90
25	44	51	e46	73	96	109	74	103	56	62	47	70
26	44	74	e44	68	105	97	72	103	182	122	45	46
27	43	56	e43	68	82	90	70	75	87	73	55	41
28	42	50	e43	64	76	85	69	67	63	77	62	39
29	42	48	e43	63	---	365	66	64	55	202	47	37
30	42	47	e43	75	---	717	66	57	53	190	44	36
31	42	---	e42	71	---	285	---	53	---	111	51	---
TOTAL	1301	1542	1836	2176	1888	4172	3231	2319	1861	2045	2109	1446
MEAN	42.0	51.4	59.2	70.2	67.4	135	108	74.8	62.0	66.0	68.0	48.2
MAX	48	153	314	287	106	717	226	213	182	202	153	90
MIN	38	42	42	38	54	64	66	51	40	32	44	36
CFSM	.33	.40	.46	.55	.53	1.05	.84	.58	.48	.52	.53	.38
IN.	.38	.45	.53	.63	.55	1.21	.94	.67	.54	.59	.61	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	150	156	170	202	219	261	251	210	188	152	148	137
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	51.4	59.2	70.2	67.4	97.4	100	74.8	62.0	50.8	47.3	48.2
(WY)	2001	2001	2001	2001	2001	1988	1986	2001	2001	1986	1988	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	31858		25926			
ANNUAL MEAN	87.0		71.0		187	
HIGHEST ANNUAL MEAN					269	1993
LOWEST ANNUAL MEAN					71.0	2001
HIGHEST DAILY MEAN	484	Mar 20	717	Mar 30	7460	Aug 17 1994
LOWEST DAILY MEAN	38	Oct 9	32	Jul 24	32	Aug 27 1988
ANNUAL SEVEN-DAY MINIMUM	40	Oct 8	37	Jul 13	37	Jul 13 2001
MAXIMUM PEAK FLOW			1930	Mar 29	26600*	Oct 17 1975
MAXIMUM PEAK STAGE			4.94	Mar 29	22.54*	Oct 17 1975
INSTANTANEOUS LOW FLOW			31	Jul 24	31*	Aug 27 1988
ANNUAL RUNOFF (CFSM)	.68		.55		1.46	
ANNUAL RUNOFF (INCHES)	9.26		7.53		19.89	
10 PERCENT EXCEEDS	152		109		306	
50 PERCENT EXCEEDS	70		57		141	
90 PERCENT EXCEEDS	43		40		76	

e Estimated.
* See REMARKS.

02112120 ROARING RIVER NEAR ROARING RIVER, NC--Continued