03504000 NANTAHALA RIVER NEAR RAINBOW SPRINGS, NC

LOCATION.--Lat 35°07'37", long 83°37'09", Macon County, Hydrologic Unit 06010202, on right bank on Forest Service Road 437 in Nantahala National Forest, 300 ft upstream from Roaring Fork, 0.2 mi downstream of Buck Creek, 4 mi northwest of town of Rainbow Springs, and at mile 34.3.

DRAINAGE AREA.--51.9 mi^2.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 973: 1941(M).

GAGE.--Water-stage recorder. Datum of gage is 3,072.97 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional slight diurnal fluctuation at low flow caused by small ponds on tributaries upstream from station. Maximum discharge for period of record from rating curve extended above 3,000 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record also occurred Oct. 29, Nov. 1, 2, 1998. Minimum discharge for current water year also occurred several days in Oct. and Nov.

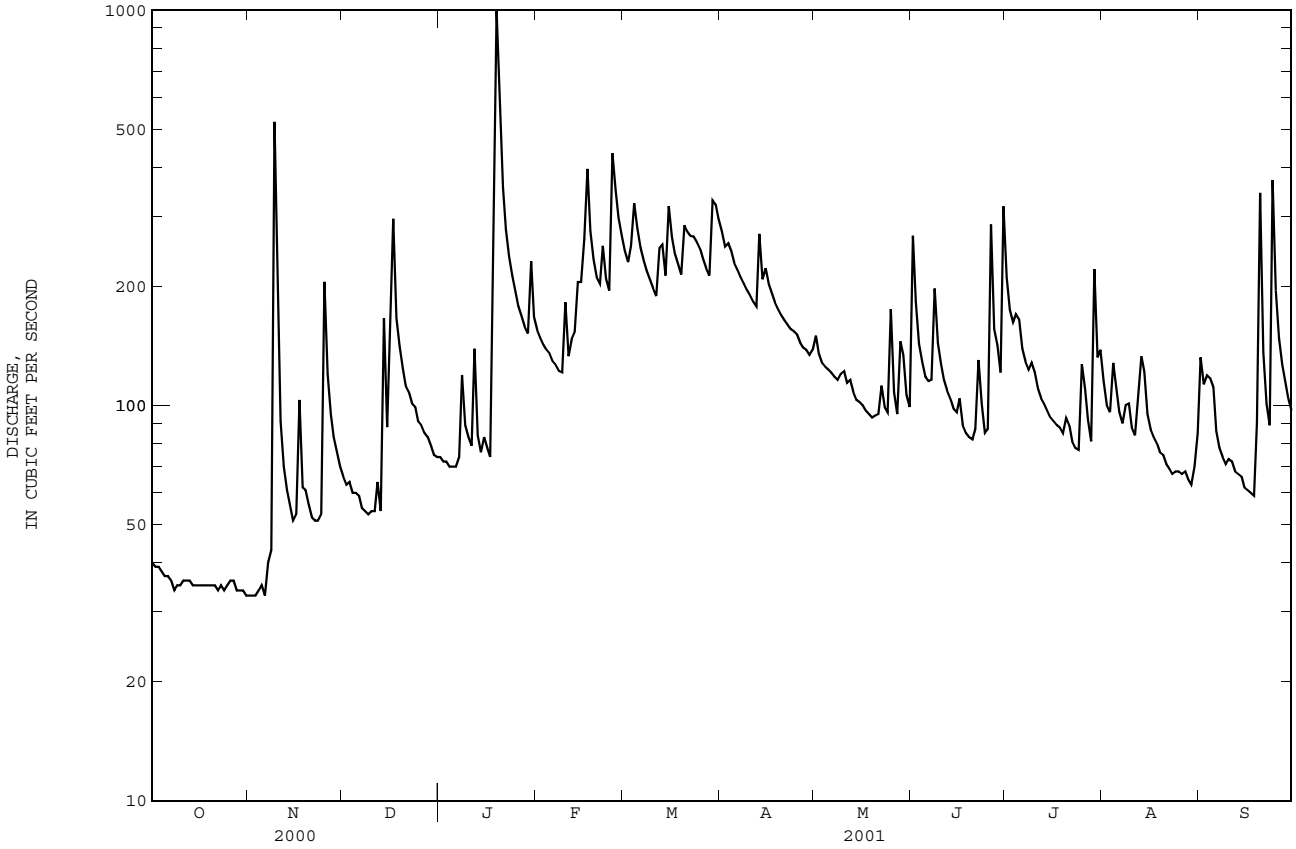
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	33	66	e74	155	245	275	150	268	211	115	132
2	39	33	63	e72	148	230	252	135	183	174	100	113
3	39	33	64	e72	142	253	257	128	143	162	96	119
4	38	34	60	e70	138	324	246	125	129	170	128	117
5	37	35	60	e70	135	280	229	123	118	165	112	111
6	37	33	59	e70	129	250	220	121	115	139	96	86
7	36	40	55	e74	126	232	211	118	116	129	90	78
8	34	43	54	119	122	219	203	116	197	123	100	74
9	35	521	53	e89	121	208	196	120	144	128	101	71
10	35	194	54	e83	182	198	190	122	127	121	88	73
11	36	91	54	e79	133	189	183	114	116	110	84	72
12	36	70	64	139	147	250	178	116	109	104	106	68
13	36	61	54	84	153	255	271	108	104	101	133	67
14	35	56	166	76	205	213	208	103	98	97	122	66
15	35	51	88	83	205	319	222	102	96	93	95	62
16	35	53	173	78	263	266	202	100	104	91	87	61
17	35	103	296	74	396	242	191	97	89	89	83	60
18	35	62	166	221	276	227	182	95	85	88	80	59
19	35	61	141	996	234	214	175	93	83	85	76	90
20	35	56	e124	580	211	285	169	94	82	93	75	344
21	35	52	e112	355	203	274	164	95	87	89	71	136
22	34	e51	e108	279	253	268	160	112	130	81	69	101
23	35	51	e101	238	209	267	156	99	101	78	67	89
24	34	53	e99	213	195	259	154	96	85	77	68	371
25	35	205	e91	193	434	249	151	175	87	127	68	195
26	36	120	e89	178	350	235	144	108	286	110	67	148
27	36	95	e85	168	298	222	140	95	156	92	68	127
28	34	83	e83	158	269	213	138	145	142	81	65	114
29	34	76	79	152	---	330	134	134	121	221	63	104
30	34	70	e75	231	---	321	138	106	318	132	70	97
31	33	---	e74	167	---	295	---	99	---	138	85	---
TOTAL	1103	2519	2910	5535	5832	7832	5739	3544	4019	3699	2728	3405
MEAN	35.6	84.0	93.9	179	208	253	191	114	134	119	88.0	114
MAX	40	521	296	996	434	330	275	175	318	221	133	371
MIN	33	33	53	70	121	189	134	93	82	77	63	59
CFSM	.69	1.62	1.81	3.44	4.01	4.87	3.69	2.20	2.58	2.30	1.70	2.19
IN.	.79	1.81	2.09	3.97	4.18	5.61	4.11	2.54	2.88	2.65	1.96	2.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2001, BY WATER YEAR (WY)

MEAN	115	153	221	280	324	323	280	214	172	138	122	106
MAX	415	376	474	568	657	572	493	491	485	335	327	374
(WY)	1965	1978	1993	1974	1957	1979	1979	1976	1989	1989	1994	1950
MIN	35.6	56.6	77.2	84.4	115	138	118	96.8	67.1	59.0	49.5	41.8
(WY)	2001	1955	1959	1981	1941	1988	1986	1986	1986	1986	1986	1986

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001	
ANNUAL TOTAL	43727		48865			
ANNUAL MEAN	119		134		203	
HIGHEST ANNUAL MEAN					280	1949
LOWEST ANNUAL MEAN					109	1986
HIGHEST DAILY MEAN	980	Apr 4	996	Jan 19	3060	Jun 16 1949
LOWEST DAILY MEAN	32	Sep 16	33	Oct 31	29	Nov 1 1998
ANNUAL SEVEN-DAY MINIMUM	33	Sep 14	33	Oct 28	30	Oct 26 1998
MAXIMUM PEAK FLOW			1650	Jan 19	6300*	Jun 16 1949
MAXIMUM PEAK STAGE			4.14	Jan 19	9.70	Jun 16 1949
INSTANTANEOUS LOW FLOW			33*	Oct 8	29*	Oct 28 1998
ANNUAL RUNOFF (CFSM)	2.30		2.58		3.92	
ANNUAL RUNOFF (INCHES)	31.34		35.02		53.26	
10 PERCENT EXCEEDS	217		252		372	
50 PERCENT EXCEEDS	94		109		161	
90 PERCENT EXCEEDS	36		40		67	

e Estimated.
* See REMARKS.

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