

## 02093000 NEW RIVER NEAR GUM BRANCH, NC

LOCATION.--Lat 34°50'56", long 77°31'11", Onslow County, Hydrologic Unit 03030001, on right bank 5 ft downstream of Secondary Road 1314, 0.7 mi downstream of Jenkins Swamp, 1.8 mi southwest of Gum Branch, and 3.8 mi southeast of Richlands.

DRAINAGE AREA.--94 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1949 to September 1973. July 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is at NGVD of 1929 (levels by U.S. Army Corps of Engineers). Aug. 19, 1949, to Mar. 22, 1950, nonrecording gage and Mar. 23, 1950, to Mar. 25, 1969, water-stage recorder at site 0.2 mi upstream at 2.52 ft. Mar. 26, 1969, to Sept. 1973 water-stage recorder at present site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair except those below 20 ft<sup>3</sup>/s, which are poor. Maximum discharge for period of record from rating curve extended above 3,000 ft<sup>3</sup>/s by logarithmic plotting. Low flows affected by tide.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1908 reached a stage of about 18 ft at former site and datum, from information by local resident.

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	18	17	21	15	54	50	287	36	21	15	21	18
2	24	16	18	16	50	58	244	34	19	15	25	23
3	25	16	20	24	46	501	202	30	19	15	23	29
4	18	14	18	25	46	537	164	37	22	12	25	21
5	18	15	18	21	43	322	141	56	19	9.7	28	13
6	15	14	16	74	43	243	130	43	17	18	25	13
7	17	16	19	125	106	193	123	34	16	12	15	11
8	15	16	19	66	184	165	112	34	16	16	15	11
9	16	15	17	48	134	154	100	31	20	16	14	11
10	16	12	19	45	103	143	96	28	20	16	11	16
11	16	13	33	42	94	126	102	23	18	39	9.5	21
12	20	13	28	38	81	121	97	21	15	27	9.5	18
13	17	13	25	48	72	245	92	22	15	20	8.9	13
14	21	14	22	51	64	392	89	29	39	25	7.2	7.6
15	21	14	20	57	61	326	85	26	115	29	6.1	7.9
16	21	15	18	53	59	280	83	22	43	23	4.1	9.5
17	18	15	18	46	55	214	86	20	33	20	2.0	11
18	16	15	26	46	52	182	79	20	30	19	1.3	11
19	16	18	22	42	53	163	106	21	26	17	2.5	10
20	17	16	28	56	46	154	262	21	21	14	4.5	8.8
21	13	17	22	54	81	304	201	23	20	15	5.4	11
22	13	14	17	53	77	323	149	19	20	17	4.1	11
23	15	13	17	98	69	279	117	23	29	23	4.2	15
24	16	28	18	192	66	216	93	21	30	20	3.5	97
25	16	31	17	117	59	182	80	20	19	39	4.0	39
26	14	25	17	87	55	174	71	17	18	42	7.1	27
27	13	23	18	74	54	260	64	18	23	27	7.6	29
28	14	21	19	70	50	199	61	20	30	23	11	29
29	15	19	22	65	---	168	48	23	19	19	9.7	22
30	12	21	19	60	---	155	33	25	14	18	11	21
31	14	---	16	56	---	147	---	22	---	19	20	---
TOTAL	520	509	627	1864	1957	6976	3597	819	766	639.7	345.2	584.8
MEAN	16.77	16.97	20.23	60.13	69.89	225.0	119.9	26.42	25.53	20.64	11.14	19.49
MAX	25	31	33	192	184	537	287	56	115	42	28	97
MIN	12	12	16	15	43	50	33	17	14	9.7	1.3	7.6
CFSM	0.18	0.18	0.22	0.64	0.74	2.39	1.28	0.28	0.27	0.22	0.12	0.21
IN.	0.21	0.20	0.25	0.74	0.77	2.76	1.42	0.32	0.30	0.25	0.14	0.23

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2002,@ BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)
1949	78.95	553	1972	2.01	1955	62.01	190	1970	4.30	1955	90.16	277	1958	13.3	1955	154.6	374	1993	32.4	1955
1950	175.4	584	1998	33.1	1955	180.6	418	1959	27.7	1955	113.6	377	1973	21.0	1955	68.10	188	1969	16.4	1957
1951	180.6	418	1959	21.0	1955	113.6	377	1973	16.4	1957	68.10	188	1969	11.3	1970	112.0	423	1961	7.21	1993
1952	68.10	188	1969	11.3	1970	112.0	423	1961	7.21	1993	106.5	734	1955	6.25	1954	106.5	734	1955	6.25	1954
1953	106.5	734	1955	6.25	1954	106.5	734	1955	6.25	1954	123.8	1110	1999	4.25	1954	123.8	1110	1999	4.25	1954

## SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1949 - 2002@

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1949 - 2002@
ANNUAL TOTAL	27975	19204.7	
ANNUAL MEAN	76.64	52.62	113.1
HIGHEST ANNUAL MEAN			208
LOWEST ANNUAL MEAN			52.6
HIGHEST DAILY MEAN	699	Jun 3	537 Mar 4
LOWEST DAILY MEAN	12	Oct 30	1.3 Aug 18
ANNUAL SEVEN-DAY MINIMUM	13	Nov 9	3.4 Aug 16
MAXIMUM PEAK FLOW			595 Mar 4
MAXIMUM PEAK STAGE			9.25 Mar 4
INSTANTANEOUS LOW FLOW			0.62* Aug 19
ANNUAL RUNOFF (CFSM)	0.82		0.56
ANNUAL RUNOFF (INCHES)	11.07		7.60
10 PERCENT EXCEEDS	151		142
50 PERCENT EXCEEDS	44		22
90 PERCENT EXCEEDS	16		12

@ See PERIOD OF RECORD.

\* See REMARKS.

02093000 NEW RIVER NEAR GUM BRANCH, NC--Continued

