

## 02093000 NEW RIVER NEAR GUM BRANCH, NC

LOCATION.--Lat 34°50'57", long 77°31'10", 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 150 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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	718	76	105	85	255	75	205	63	51	42	265
2	66	381	73	97	77	200	64	466	45	50	67	524
3	59	291	68	94	84	166	56	536	37	101	187	323
4	57	241	74	89	83	141	46	825	31	88	118	221
5	48	205	181	88	77	124	42	631	35	225	84	162
6	44	223	146	86	75	116	43	319	31	126	341	188
7	41	344	119	77	109	103	42	214	31	62	287	347
8	59	241	111	78	93	98	40	152	63	46	153	305
9	867	196	100	78	84	90	38	112	78	36	94	336
10	1,140	166	118	85	80	89	43	94	44	30	73	281
11	766	145	585	78	75	81	62	84	436	36	53	211
12	429	131	502	80	130	80	248	71	331	40	46	165
13	300	118	305	75	209	75	255	64	130	29	432	129
14	248	100	613	73	172	71	336	58	82	26	1,010	121
15	286	93	971	69	284	67	231	52	62	26	2,100	196
16	234	88	673	66	343	100	157	48	47	23	2,110	214
17	185	85	422	63	325	128	120	41	49	21	1,360	179
18	153	89	353	71	377	104	98	39	42	21	650	205
19	134	135	287	72	291	94	86	32	75	20	332	232
20	121	303	240	66	224	84	76	32	51	20	235	174
21	108	217	200	61	183	78	64	33	39	22	174	138
22	101	167	176	58	150	68	55	31	31	19	164	112
23	90	142	161	57	127	65	48	27	30	33	144	89
24	88	125	234	54	143	58	44	27	99	103	123	79
25	85	112	233	52	144	51	43	26	55	38	100	75
26	84	102	190	78	210	51	38	24	39	50	97	69
27	96	100	163	112	508	53	59	21	32	32	121	70
28	146	98	151	132	487	53	49	20	37	25	95	114
29	1,260	86	135	109	345	50	39	19	180	27	139	111
30	1,970	78	126	99	---	49	38	114	76	35	305	85
31	1,450	---	111	93	---	62	---	110	---	59	206	---
TOTAL	10,782	5,520	7,897	2,495	5,574	2,904	2,635	4,527	2,381	1,520	11,442	5,720
MEAN	348	184	255	80.5	192	93.7	87.8	146	79.4	49.0	369	191
MAX	1,970	718	971	132	508	255	336	825	436	225	2,110	524
MIN	41	78	68	52	75	49	38	19	30	19	42	69
CFSM	3.70	1.96	2.71	0.86	2.04	1.00	0.93	1.55	0.84	0.52	3.93	2.03
IN.	4.27	2.18	3.13	0.99	2.21	1.15	1.04	1.79	0.94	0.60	4.53	2.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004,® BY WATER YEAR (WY)

	84.3	64.6	93.5	150	175	181	117	72.2	95.1	119	114	124
MEAN	84.3	64.6	93.5	150	175	181	117	72.2	95.1	119	114	124
MAX	553	190	277	374	584	418	377	188	423	717	734	1,110
(WY)	(1972)	(1970)	(1958)	(1993)	(1998)	(1959)	(1973)	(1969)	(1961)	(1962)	(1955)	(1999)
MIN	2.01	4.30	13.3	32.4	33.1	27.7	21.0	16.4	11.3	7.21	6.25	4.25
(WY)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1957)	(1970)	(1993)	(1954)	(1954)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004 <sup>@</sup>	
ANNUAL TOTAL	83,640		63,397		116	
ANNUAL MEAN	229		173		208	
HIGHEST ANNUAL MEAN					52.6	1972
LOWEST ANNUAL MEAN					2.0	2002
HIGHEST DAILY MEAN	1,970	Oct 30	2,110	Aug 16	10,100	Sep 16, 1999
LOWEST DAILY MEAN	33	May 14	19	May 29	1.3	Aug 18, 2002
ANNUAL SEVEN-DAY MINIMUM	36	May 12	21	Jul 16	2.0	Oct 4, 1954
MAXIMUM PEAK FLOW			2,310	Aug 15	15000*	Sep 16, 1999
MAXIMUM PEAK STAGE			15.86	Aug 15	25.12	Sep 16, 1999
INSTANTANEOUS LOW FLOW			15*	Jul 20	0.62*	Aug 19, 2002
ANNUAL RUNOFF (CFSM)	2.44		1.84		1.23	
ANNUAL RUNOFF (INCHES)	33.10		25.09		16.77	
10 PERCENT EXCEEDS	554		338		249	
50 PERCENT EXCEEDS	125		94		55	
90 PERCENT EXCEEDS	48		37		13	

<sup>@</sup> See PERIOD OF RECORD.

\* See REMARKS.

