

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 mi².

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.--Records fair except those below 150 ft³/s and those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 3,000 ft³/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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	23	31	99	53	242	139	75	344	63	104	42
2	19	21	32	143	54	212	125	84	229	485	95	43
3	19	21	34	114	52	182	113	74	165	1,660	85	40
4	18	19	e30	107	55	147	103	67	180	1,370	90	37
5	15	18	e36	97	57	134	96	67	209	609	89	73
6	15	63	e38	83	46	184	92	77	150	273	84	60
7	19	57	e42	69	101	215	98	73	288	180	140	53
8	23	31	e46	67	103	212	151	63	364	133	241	54
9	25	23	e50	64	85	171	556	51	288	109	230	48
10	26	21	e54	64	119	147	1,180	48	203	123	199	59
11	31	21	e58	59	141	130	1,350	42	149	103	173	59
12	28	25	e74	55	109	126	1,020	41	121	118	151	52
13	22	60	77	48	94	112	594	37	109	239	176	48
14	64	74	115	43	81	103	364	33	111	1,030	247	43
15	63	47	80	47	75	97	267	36	99	1,580	219	41
16	71	43	67	44	93	153	210	34	294	1,030	139	37
17	56	110	58	52	390	269	176	34	642	413	103	34
18	38	159	57	45	281	219	151	35	471	553	545	76
19	28	95	56	44	194	187	135	70	959	909	629	156
20	22	74	76	49	152	451	122	66	1,170	1,080	318	105
21	19	69	90	42	128	1,370	115	47	1,010	919	227	85
22	18	55	69	44	131	1,350	111	38	491	437	160	73
23	19	45	56	42	304	785	90	288	276	316	123	188
24	18	39	59	41	201	398	84	607	187	302	123	161
25	14	40	125	44	155	282	93	330	134	292	102	118
26	15	44	88	42	127	220	156	224	106	208	88	99
27	13	34	72	41	156	179	134	384	91	163	74	92
28	16	31	65	43	323	167	115	767	78	131	66	112
29	18	31	59	42	---	177	100	620	74	112	61	107
30	41	31	55	50	---	160	85	324	70	100	56	83
31	28	---	57	61	---	167	---	225	---	98	47	---
TOTAL	844	1,424	1,906	1,885	3,860	8,948	8,125	4,961	9,062	15,138	5,184	2,278
MEAN	27.2	47.5	61.5	60.8	138	289	271	160	302	488	167	75.9
MAX	71	159	125	143	390	1,370	1,350	767	1,170	1,660	629	188
MIN	13	18	30	41	46	97	84	33	70	63	47	34
CFSM	0.29	0.50	0.65	0.65	1.47	3.07	2.88	1.70	3.21	5.19	1.78	0.81
IN.	0.33	0.56	0.75	0.75	1.53	3.54	3.22	1.96	3.59	5.99	2.05	0.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2003,[@] BY WATER YEAR (WY)

MEAN	77.7	61.6	89.4	152	174	183	117	70.4	95.4	121	108	123
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1949 - 2003 [®]	
ANNUAL TOTAL	21,722.7		63,615		115	
ANNUAL MEAN	59.5		174		208	
HIGHEST ANNUAL MEAN					208	1972
LOWEST ANNUAL MEAN					52.6	2002
HIGHEST DAILY MEAN	537	Mar 4	1,660	Jul 3	10,100	Sep 16, 1999
LOWEST DAILY MEAN	1.3	Aug 18	13	Oct 27	1.3	Aug 18, 2002
ANNUAL SEVEN-DAY MINIMUM	3.4	Aug 16	16	Oct 22	2.0	Oct 4, 1954
MAXIMUM PEAK FLOW			1,790	Jul 3	15,000	Sep 16, 1999
MAXIMUM PEAK STAGE			14.14	Jul 3	25.12	Sep 16, 1999
INSTANTANEOUS LOW FLOW			9.6*	Oct 6	0.62*	Aug 19, 2002
ANNUAL RUNOFF (CFSM)	0.63		1.85		1.22	
ANNUAL RUNOFF (INCHES)	8.60		25.18		16.57	
10 PERCENT EXCEEDS	145		372		247	
50 PERCENT EXCEEDS	32		91		54	
90 PERCENT EXCEEDS	13		31		13	

e Estimated
[®] See PERIOD OF RECORD.
 * See REMARKS.

