

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 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.--No estimated daily discharges. Records good except those below 150 ft³/s, 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. Minimum discharge for current water year also occurred Sept. 11.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	34	159	76	121	228	115	26	41	95	276	20
2	105	28	130	69	103	170	268	25	64	64	132	18
3	91	33	109	65	95	134	349	22	78	284	84	15
4	80	33	92	58	120	109	219	23	72	171	64	16
5	70	37	81	53	114	97	150	22	68	133	47	18
6	59	29	75	51	104	90	121	283	74	89	34	22
7	52	26	74	52	92	82	105	540	175	63	28	25
8	50	27	69	47	85	80	163	355	99	53	26	25
9	47	25	65	44	82	75	173	223	136	39	31	27
10	40	27	80	42	90	68	148	154	453	35	36	17
11	40	25	94	45	77	64	122	110	240	31	109	18
12	43	37	74	43	68	69	99	89	124	28	45	24
13	109	310	69	41	63	58	90	121	80	28	31	37
14	175	188	59	142	57	52	141	101	60	55	25	100
15	130	126	49	198	56	48	142	87	49	119	21	381
16	150	100	45	133	54	47	105	72	39	80	20	224
17	99	83	45	144	55	93	91	101	33	48	21	133
18	80	72	45	112	50	117	80	81	33	37	24	90
19	73	68	45	97	46	100	64	74	31	28	25	113
20	71	62	44	93	44	110	52	65	28	32	27	73
21	61	52	41	87	44	102	45	123	28	56	28	48
22	63	52	40	83	50	84	41	106	25	37	28	37
23	62	91	50	82	48	122	40	92	23	61	28	30
24	62	152	79	71	134	121	34	77	22	42	27	29
25	69	137	59	70	165	97	30	89	24	32	26	29
26	70	118	116	72	125	88	29	84	50	27	26	33
27	63	94	179	66	111	82	29	72	72	24	26	36
28	53	325	128	54	217	235	27	59	42	20	25	32
29	49	307	111	52	---	310	25	44	165	34	28	27
30	43	209	96	120	---	187	25	37	238	29	32	23
31	41	---	84	148	---	135	---	38	---	106	31	---
TOTAL	2,291	2,907	2,486	2,510	2,470	3,454	3,122	3,395	2,666	1,980	1,411	1,720
MEAN	73.9	96.9	80.2	81.0	88.2	111	104	110	88.9	63.9	45.5	57.3
MAX	175	325	179	198	217	310	349	540	453	284	276	381
MIN	40	25	40	41	44	47	25	22	22	20	20	15
CFSM	0.79	1.03	0.85	0.86	0.94	1.19	1.11	1.17	0.95	0.68	0.48	0.61
IN.	0.91	1.15	0.98	0.99	0.98	1.37	1.24	1.34	1.06	0.78	0.56	0.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005,[@] BY WATER YEAR (WY)

	84.0	65.4	93.2	149	173	179	116	73.1	94.9	118	113	123
MEAN	84.0	65.4	93.2	149	173	179	116	73.1	94.9	118	113	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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1949 - 2005 [@]	
ANNUAL TOTAL	46,882		30,412		115	
ANNUAL MEAN	128		83.3		208	
HIGHEST ANNUAL MEAN					52.6	1972
LOWEST ANNUAL MEAN					202	2002
HIGHEST DAILY MEAN	2,110	Aug 16	540	May 7	10,100	Sep 16, 1999
LOWEST DAILY MEAN	19	May 29	15	Sep 3	1.3	Aug 18, 2002
ANNUAL SEVEN-DAY MINIMUM	21	Jul 16	19	Sep 1	2.0	Oct 4, 1954
MAXIMUM PEAK FLOW			581	May 7	15,000*	Sep 16, 1999
MAXIMUM PEAK STAGE			8.28	May 7	25.12	Sep 16, 1999
INSTANTANEOUS LOW FLOW			11*	Sep 10	0.62*	Aug 19, 2002
ANNUAL RUNOFF (CFSM)	1.36		0.886		1.23	
ANNUAL RUNOFF (INCHES)	18.55		12.04		16.66	
10 PERCENT EXCEEDS	258		153		247	
50 PERCENT EXCEEDS	78		65		55	
90 PERCENT EXCEEDS	32		26		13	

[@] See PERIOD OF RECORD.

* See REMARKS.

