

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 sea level (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 ft³/s, which are poor. Maximum discharge for period of record from rating curve extended above 3,000 ft³/s by logarithmic plotting. Minimum discharge for period of record also occurred Oct. 3, 4, 1993. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	21	55	44	57	104	139	32	88	46	226	86
2	123	21	51	42	52	92	158	30	656	42	149	84
3	101	21	86	41	51	85	130	28	699	40	111	57
4	81	20	108	40	65	300	118	27	362	41	91	52
5	66	26	101	41	99	321	107	27	198	43	75	46
6	57	27	90	42	90	235	97	26	134	40	68	61
7	48	23	80	40	80	171	89	25	103	36	122	44
8	42	20	70	39	73	141	81	26	87	35	72	43
9	39	26	61	38	67	124	75	25	78	38	61	274
10	37	29	88	36	66	110	69	25	71	81	55	314
11	33	23	98	37	62	100	65	24	63	39	51	157
12	28	25	107	35	62	89	61	24	56	35	59	96
13	27	28	94	37	74	89	57	130	53	34	55	70
14	25	36	92	38	72	79	54	57	91	32	67	57
15	22	39	92	42	74	107	48	35	426	31	70	43
16	22	29	82	38	68	164	48	55	541	29	57	40
17	22	27	81	37	94	131	45	53	404	33	51	44
18	22	24	73	36	111	109	46	50	243	33	88	39
19	24	35	68	37	88	93	44	43	164	43	282	32
20	23	98	64	146	78	87	40	49	121	42	155	30
21	21	48	58	143	73	566	41	115	106	35	181	27
22	21	29	55	122	104	610	39	55	116	44	184	24
23	21	24	51	104	178	417	37	43	97	71	85	22
24	22	22	48	91	135	274	35	39	144	72	62	21
25	23	76	46	82	115	203	37	34	159	50	55	26
26	23	284	44	74	105	163	50	36	121	42	47	22
27	23	155	44	71	90	137	42	53	88	38	47	19
28	24	102	56	69	99	119	38	80	69	37	41	17
29	21	78	56	63	---	122	35	205	58	36	38	16
30	22	66	52	60	---	162	33	180	51	629	53	15
31	21	---	48	62	---	149	---	110	---	585	43	---
TOTAL	1220	1482	2199	1827	2382	5653	1958	1741	5647	2432	2801	1878
MEAN	39.4	49.4	70.9	58.9	85.1	182	65.3	56.2	188	78.5	90.4	62.6
MAX	136	284	108	146	178	610	158	205	699	629	282	314
MIN	21	20	44	35	51	79	33	24	51	29	38	15
CFSM	.42	.53	.75	.63	.91	1.94	.69	.60	2.00	.83	.96	.67
IN.	.48	.59	.87	.72	.94	2.24	.77	.69	2.23	.96	1.11	.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2001,® BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	80.6	63.2	92.0	157	178
MAX	553	190	277	374	584
(WY)	1972	1970	1958	1993	1998
MIN	2.01	4.30	13.3	32.4	33.1
(WY)	1955	1955	1955	1955	1955

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1949 - 2001®

ANNUAL TOTAL	37630	31220	
ANNUAL MEAN	103	85.5	115
HIGHEST ANNUAL MEAN			208
LOWEST ANNUAL MEAN			59.9
HIGHEST DAILY MEAN	694	Mar 18	699
LOWEST DAILY MEAN	15	Jul 20	15
ANNUAL SEVEN-DAY MINIMUM	16	Jul 15	19
MAXIMUM PEAK FLOW			805
MAXIMUM PEAK STAGE			10.86
INSTANTANEOUS LOW FLOW			12
ANNUAL RUNOFF (CFSM)	1.09		.91
ANNUAL RUNOFF (INCHES)	14.89		12.36
10 PERCENT EXCEEDS	240		156
50 PERCENT EXCEEDS	62		57
90 PERCENT EXCEEDS	22		24

® See PERIOD OF RECORD.

* See REMARKS.

02093000 NEW RIVER NEAR GUM BRANCH, NC--Continued

