

NEUSE RIVER BASIN

02091000 NAHUNTA SWAMP NEAR SHINE, NC

LOCATION.--Lat 35°29'20", long 77°48'22", Greene County, Hydrologic Unit 03020203, on right bank 10 ft downstream of bridge on Secondary Road 1058, 2 mi upstream from Appletree Swamp, 3.5 mi north of Shine, and 8 mi northwest of Snow Hill.

DRAINAGE AREA.--80.4 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1954 to current year. Monthly discharges only for some periods, published in WSP 1723.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 50.74 ft above NGVD of 1929. Prior to Apr. 1, 1955, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record, on basis of slope conveyances measurement of peak flow; gage height from floodmarks. Minimum discharge for period of record also occurred Oct. 8, 1954, Aug. 11-15, 2002. Minimum discharge for current water year also occurred Aug. 12-15.

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	14	13	23	15	63	41	342	24	12	5.0	3.2	18
2	13	13	21	15	56	50	196	23	11	4.2	2.7	16
3	12	13	19	25	51	190	115	22	11	3.8	2.3	12
4	11	13	18	31	49	119	96	21	9.5	3.4	2.0	9.2
5	10	13	20	29	46	79	76	40	8.8	3.3	1.8	7.5
6	14	15	17	81	46	67	66	40	8.1	4.0	1.6	6.2
7	47	13	17	165	156	61	59	35	13	4.5	1.5	5.4
8	29	13	17	104	216	57	56	31	13	3.6	1.3	4.7
9	23	13	16	71	148	54	51	23	10	3.2	1.3	4.4
10	19	13	16	66	113	53	156	21	8.9	3.1	1.2	4.4
11	16	13	27	64	114	47	147	18	7.6	3.4	1.1	4.8
12	15	13	30	56	96	48	94	16	6.9	3.9	1.0	4.4
13	14	12	30	149	83	64	75	16	6.2	3.7	1.0	4.1
14	13	13	26	98	74	80	87	51	5.5	4.5	1.0	4.1
15	13	13	25	82	69	66	160	34	5.3	15	1.1	12
16	13	13	22	64	66	57	87	23	5.1	8.1	1.7	20
17	12	13	20	54	63	53	66	19	4.5	6.2	1.5	27
18	12	13	23	48	59	51	54	18	4.2	5.0	1.5	17
19	12	14	21	48	54	48	47	29	4.0	4.3	1.5	13
20	12	15	19	157	54	47	61	24	3.9	4.1	1.6	9.8
21	12	15	17	117	60	58	52	20	3.6	4.0	1.7	8.5
22	13	16	16	102	61	68	45	18	3.5	6.2	2.3	7.4
23	12	13	16	193	56	54	40	17	3.5	10	1.6	6.8
24	12	57	17	336	52	48	33	15	3.3	5.1	1.3	6.9
25	13	64	17	215	48	45	30	14	3.1	45	1.3	6.2
26	12	41	16	152	47	42	29	13	3.1	26	10	6.6
27	11	31	16	111	46	64	28	13	3.3	18	5.6	8.0
28	15	25	15	90	43	57	28	11	12	11	16	8.4
29	12	24	16	79	---	49	28	11	9.7	7.0	20	8.3
30	12	24	17	70	---	46	26	11	6.1	4.9	16	7.6
31	13	---	15	66	---	62	---	16	---	3.9	23	---
TOTAL	461	574	605	2953	2089	1925	2430	687	209.7	236.9	130.7	278.7
MEAN	14.87	19.13	19.52	95.26	74.61	62.10	81.00	22.16	6.990	7.642	4.216	9.290
MAX	47	64	30	336	216	190	342	51	13	45	23	27
MIN	10	12	15	15	43	41	26	11	3.1	3.1	1.0	4.1
CFSM	0.18	0.24	0.24	1.18	0.93	0.77	1.01	0.28	0.09	0.10	0.05	0.12
IN.	0.21	0.27	0.28	1.37	0.97	0.89	1.12	0.32	0.10	0.11	0.06	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2002, BY WATER YEAR (WY)

	54.05	54.99	68.48	119.6	140.5	143.0	101.3	58.15	51.60	57.18	67.16	81.18
MEAN	54.05	54.99	68.48	119.6	140.5	143.0	101.3	58.15	51.60	57.18	67.16	81.18
MAX	473	253	184	261	327	311	252	277	243	395	360	1083
(WY)	1965	1978	1958	1993	1998	1983	1974	1989	1995	1965	1974	1999
MIN	2.26	11.2	19.5	29.4	34.6	33.7	19.1	10.8	5.35	3.10	4.22	2.58
(WY)	1955	1987	2002	2001	1988	1986	1986	1986	1986	1987	2002	1954

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1954 - 2002

ANNUAL TOTAL	16318.7	12580.0										
ANNUAL MEAN	44.71	34.47	83.85									
HIGHEST ANNUAL MEAN			150									1965
LOWEST ANNUAL MEAN			22.9									1986
HIGHEST DAILY MEAN	802	Mar 22	342	Apr 1	7000	Sep 17	1999					
LOWEST DAILY MEAN	7.6	Jul 23	1.0	Aug 12	1.0	Oct 7	1954					
ANNUAL SEVEN-DAY MINIMUM	8.1	Jul 17	1.1	Aug 9	1.1	Aug 9	2002					
MAXIMUM PEAK FLOW			417	Jan 23	23000*	Sep 17	1999					
MAXIMUM PEAK STAGE			5.92	Jan 23	21.00*	Sep 17	1999					
INSTANTANEOUS LOW FLOW			1.0*	Aug 11	1.0*	Oct 7	1954					
ANNUAL RUNOFF (CFSM)	0.56		0.43		1.04							
ANNUAL RUNOFF (INCHES)	7.55		5.82		14.17							
10 PERCENT EXCEEDS	84		79		176							
50 PERCENT EXCEEDS	25		16		43							
90 PERCENT EXCEEDS	11		3.6		10							

\* See REMARKS.

02091000 NAHUNTA SWAMP NEAR SHINE, NC--Continued

