



Water-Data Report 2010

02091000 NAHUNTA SWAMP NEAR SHINE, NC

Neuse Basin
Contentnea Subbasin

LOCATION.--Lat 35°29'20", long 77°48'22" referenced to North American Datum of 1983, Greene County, NC, Hydrologic Unit 03020203, on right bank at 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 mi².

SURFACE-WATER 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 April 1, 1955, nonrecording gage at same site and datum. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records fair. 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 and current water year also occurred September 16, 17, 18.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10	14	47	197	127	80	197	22	37	11	7.8	3.3
2	9.3	17	52	144	163	100	139	22	36	9.0	9.7	2.9
3	8.7	16	171	107	418	378	113	20	76	6.9	7.2	2.6
4	8.1	14	107	90	450	316	97	20	55	5.7	5.7	2.2
5	7.7	16	156	82	367	187	85	22	36	5.1	28	1.8
6	9.3	12	146	75	958	142	74	20	30	4.5	18	1.5
7	11	11	93	74	968	122	64	17	25	4.1	11	1.1
8	9.3	11	74	73	685	110	58	16	21	3.6	7.8	1.1
9	8.5	10	399	68	273	101	66	14	18	3.5	6.2	0.76
10	8.4	11	380	64	254	95	65	13	17	3.8	5.3	0.69
11	8.4	154	170	61	198	99	53	13	16	6.4	4.7	0.62
12	7.9	352	116	62	158	161	48	13	15	6.4	4.2	0.58
13	9.1	216	102	61	158	218	45	13	14	15	3.6	0.58
14	9.5	124	102	59	161	191	42	14	14	13	3.3	0.52
15	18	83	92	58	153	137	41	13	13	9.8	2.8	0.36
16	24	64	83	59	145	115	42	12	12	7.2	2.4	0.30
17	19	55	75	122	126	101	38	56	15	6.2	2.0	0.32
18	14	51	71	247	114	95	34	160	12	9.0	1.8	0.35
19	12	160	155	167	105	89	32	122	11	7.9	24	0.43
20	11	132	152	117	98	81	31	73	10	6.4	48	0.50
21	9.8	84	109	104	93	76	35	48	8.9	5.5	19	0.64
22	9.1	66	90	378	94	92	45	36	8.2	5.4	10	0.51
23	8.6	71	81	440	109	104	37	32	7.4	5.2	8.5	0.57
24	8.4	75	76	462	99	83	34	47	7.3	4.8	8.0	0.51
25	7.8	67	94	426	114	74	37	53	7.9	4.1	19	0.44
26	7.6	59	218	500	107	73	36	43	7.8	3.6	11	1.0
27	10	55	141	380	94	68	30	34	6.9	3.0	8.3	81
28	12	50	108	199	86	63	27	28	6.1	3.0	6.5	273
29	15	46	90	153	---	473	24	111	5.6	3.8	5.4	148
30	12	44	77	151	---	778	23	117	7.8	9.9	4.6	655
31	12	---	171	146	---	547	---	51	---	10	3.9	---
Total	335.5	2,140	3,998	5,326	6,875	5,349	1,692	1,275	556.9	202.8	307.7	1,183.18
Mean	10.8	71.3	129	172	246	173	56.4	41.1	18.6	6.54	9.93	39.4
Max	24	352	399	500	968	778	197	160	76	15	48	655
Min	7.6	10	47	58	86	63	23	12	5.6	3.0	1.8	0.30
Cfsm	0.13	0.89	1.60	2.14	3.05	2.15	0.70	0.51	0.23	0.08	0.12	0.49
In.	0.16	0.99	1.85	2.46	3.18	2.47	0.78	0.59	0.26	0.09	0.14	0.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	51.2	61.4	73.8	116	136	140	99.4	59.4	49.9	55.5	63.2	79.0
Max	473	402	184	261	327	311	252	277	243	395	360	1,083
(WY)	(1965)	(2007)	(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)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1954 - 2010	
Annual total	22,818.9		29,241.08			
Annual mean	62.5		80.1		82.6	
Highest annual mean					150	1965
Lowest annual mean					22.9	1986
Highest daily mean	718	Mar 2	968	Feb 7	7,000	Sep 17, 1999
Lowest daily mean	6.0	Sep 16	0.30	Sep 16	0.30	Sep 16, 2010
Annual seven-day minimum	6.6	Sep 15	0.40	Sep 14	0.40	Sep 14, 2010
Maximum peak flow			1,130	Feb 6	^a 23,000	Sep 17, 1999
Maximum peak stage			10.26	Feb 6	^a 21.00	Sep 17, 1999
Instantaneous low flow			^a 0.27	Sep 15	^a 0.27	Sep 15, 2010
Annual runoff (cfsm)	0.778		0.996		1.03	
Annual runoff (inches)	10.56		13.53		13.96	
10 percent exceeds	132		170		172	
50 percent exceeds	42		36		43	
90 percent exceeds	9.1		3.6		10	

^a See Remarks.

