

Water-Data Report 2007

02084557 VAN SWAMP NEAR HOKE, NC

Pamlico Basin
Pamlico Subbasin

LOCATION.--Lat 35°43'51", long 76°44'46" referenced to North American Datum of 1983, Washington County, NC, Hydrologic Unit 03020104, on left bank at upstream side of culvert on North Carolina Highway 32, and 4.8 mi east of Hoke.

DRAINAGE AREA.--23 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 20 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. No flow occurs periodically.

02084557 VAN SWAMP NEAR HOKE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.9	28	110	46	55	24	9.2	9.7	0.97	14	8.0	0.09
2	8.1	24	92	59	90	28	8.6	8.5	1.3	7.6	5.3	0.08
3	7.3	21	76	58	105	38	7.9	7.5	1.4	3.9	3.7	0.07
4	6.6	19	67	52	92	35	7.7	7.0	1.4	2.2	2.7	0.06
5	6.0	17	60	48	77	31	7.4	6.8	1.1	1.1	2.0	0.05
6	5.6	16	52	61	67	28	6.6	8.0	0.75	0.53	1.6	0.04
7	6.8	17	48	72	60	25	6.2	8.3	0.34	0.24	1.2	0.03
8	6.9	49	50	68	53	22	5.8	7.7	0.25	0.15	0.88	0.02
9	6.9	57	56	63	48	20	5.4	8.9	0.19	0.09	0.57	0.02
10	6.9	49	55	55	44	19	5.1	12	0.15	0.19	0.74	0.02
11	6.4	42	50	49	41	18	4.8	11	0.11	2.5	1.5	0.01
12	5.8	44	45	44	37	16	4.8	9.4	0.09	3.3	0.78	0.00
13	5.3	98	41	41	35	15	4.5	9.2	0.08	2.1	0.45	0.00
14	5.0	91	37	37	42	14	4.0	9.1	0.06	1.4	0.28	0.00
15	4.7	75	35	34	45	13	19	7.9	0.05	1.0	0.20	0.09
16	4.5	65	32	32	42	14	87	6.7	0.06	0.71	0.14	0.02
17	4.2	63	29	29	39	29	81	5.8	0.08	5.7	0.17	0.01
18	10	58	26	28	37	30	63	6.2	0.04	96	0.09	0.01
19	14	51	24	31	34	27	52	6.0	0.04	43	0.05	0.01
20	13	46	22	32	32	24	44	6.9	0.03	27	0.04	0.01
21	11	43	20	30	30	22	38	6.1	0.03	18	0.08	0.03
22	9.6	196	19	89	28	20	32	5.9	0.03	12	0.52	0.01
23	8.9	260	30	131	26	18	28	5.0	0.02	8.3	0.13	0.01
24	8.2	252	40	117	24	16	24	4.2	0.01	6.0	0.07	0.00
25	7.4	235	43	100	22	14	21	3.9	0.01	4.4	0.05	0.00
26	6.9	212	82	83	28	13	18	3.6	0.01	3.4	0.05	0.00
27	6.5	193	81	71	28	12	16	3.1	0.01	2.6	0.07	0.00
28	31	174	69	65	26	11	14	2.5	0.01	2.1	0.07	0.00
29	43	153	62	67	---	11	13	2.0	0.11	1.5	0.11	0.00
30	36	131	54	64	---	11	11	1.4	0.32	3.8	0.13	0.00
31	31	---	49	58	---	10	---	1.2	---	11	0.11	---
Total	342.4	2,779	1,556	1,814	1,287	628	649.0	201.5	9.05	285.81	31.78	0.69
Mean	11.0	92.6	50.2	58.5	46.0	20.3	21.6	6.50	0.30	9.22	1.03	0.02
Max	43	260	110	131	105	38	87	12	1.4	96	8.0	0.09
Min	4.2	16	19	28	22	10	4.0	1.2	0.01	0.09	0.04	0.00
Cfsm	0.48	4.03	2.18	2.54	2.00	0.88	0.94	0.28	0.01	0.40	0.04	0.00
In.	0.55	4.49	2.52	2.93	2.08	1.02	1.05	0.33	0.01	0.46	0.05	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	18.4	18.5	19.9	40.1	43.7	52.6	39.1	24.4	10.9	6.57	13.2	20.7
Max	166	121	98.5	124	122	142	101	122	43.8	55.2	74.9	189
(WY)	(2000)	(1978)	(2004)	(1978)	(1998)	(1983)	(1983)	(1978)	(2001)	(1989)	(2003)	(1999)
Min	0.02	0.01	0.03	0.72	9.76	8.78	4.68	0.58	0.29	0.01	0.00	0.02
(WY)	(1979)	(2002)	(2002)	(1989)	(2002)	(1992)	(1985)	(1985)	(1985)	(1997)	(1997)	(2007)

02084557 VAN SWAMP NEAR HOKE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1977 - 2007	
Annual total	10,732.36		9,584.23			
Annual mean	29.4		26.3		25.5	
Highest annual mean					51.7	1978
Lowest annual mean					6.91	2002
Highest daily mean	260	Nov 23	260	Nov 23	385	Nov 7, 1977
Lowest daily mean	0.87	Aug 29	0.00	Sep 12	0.00	Aug 21, 1983
Annual seven-day minimum	1.2	Aug 15	0.00	Sep 24	0.00	Sep 12, 1985
Maximum peak flow			269	Nov 23	409	Nov 6, 1977
Maximum peak stage			3.60	Nov 23	7.43	Sep 16, 1999
Instantaneous low flow			^a 0.00	Jun 28	^a 0.00	Oct 1, 1978
Annual runoff (cfsm)	1.28		1.14		1.11	
Annual runoff (inches)	17.36		15.50		15.06	
10 percent exceeds	65		66		72	
50 percent exceeds	18		10		9.7	
90 percent exceeds	4.3		0.05		0.14	

^a See Remarks.

