

02091736 MIDDLE SWAMP NEAR FARMVILLE, NC

LOCATION.--Lat 35°31'58", long 77°32'43", Pitt County, Hydrologic Unit 03020203, at bridge on Secondary Road 1139, 1.2 mi above mouth and 5 mi southeast of Farmville.

DRAINAGE AREA.-- 51.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 45 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources to monitor water quality changes in an agricultural watershed. Maximum gage height for period of record probably occurred on Sept. 17, 1999, discharge not determined. Maximum gage height from floodmarks. No flow also occurred on June 10, 1999; and on several days in Sept. and Oct. 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	160	17	27	31	108	9.5	9.6	3.4	17	0.79	2.6
2	22	126	15	25	28	89	9.5	22	2.4	11	0.97	2.6
3	16	95	13	23	34	72	9.3	235	1.9	11	1.9	1.4
4	13	70	17	22	43	55	8.5	321	3.3	6.6	1.2	1.1
5	11	55	33	20	39	42	6.9	207	4.9	4.5	0.94	0.81
6	9.7	81	45	22	40	36	6.0	150	14	3.1	0.89	0.78
7	8.9	146	39	19	38	33	5.0	110	12	2.3	0.77	0.88
8	9.0	129	33	18	32	29	4.3	82	22	1.9	0.57	1.1
9	27	105	31	18	27	25	4.2	53	14	1.6	0.44	1.9
10	55	87	43	20	25	22	4.1	33	7.9	1.2	0.30	4.7
11	65	67	199	18	24	19	7.1	23	5.8	1.1	0.25	15
12	48	55	174	18	43	18	17	18	7.4	0.89	0.22	13
13	35	38	135	19	105	16	29	87	7.4	0.76	1.0	8.1
14	34	28	194	18	113	14	101	46	6.2	0.59	93	4.8
15	50	24	289	17	115	14	105	22	4.3	0.43	378	3.8
16	39	22	214	15	153	18	74	13	5.1	0.29	315	3.0
17	36	18	176	14	157	21	44	9.6	8.4	0.19	198	2.9
18	29	15	180	16	149	20	30	7.5	7.5	0.16	126	7.7
19	23	24	162	18	130	20	21	6.5	15	0.20	60	9.5
20	20	80	132	18	107	18	16	7.8	7.3	0.49	29	8.3
21	16	93	107	16	89	17	13	6.1	4.8	0.25	23	6.0
22	14	75	90	17	72	15	10	4.9	3.7	0.18	18	4.4
23	13	56	76	15	54	13	8.3	172	3.0	0.73	11	2.9
24	13	41	79	14	42	12	6.6	108	3.8	1.7	6.9	2.1
25	15	31	79	13	34	10	5.3	56	3.9	1.6	4.4	1.8
26	12	25	67	18	32	9.4	5.6	27	10	1.2	3.1	1.5
27	11	22	58	20	94	8.9	16	16	7.7	0.89	4.3	1.3
28	16	22	48	25	159	8.5	17	12	12	0.67	2.5	2.9
29	248	22	40	30	140	8.1	16	8.7	39	0.59	1.9	6.1
30	333	18	36	35	---	7.6	11	5.5	29	0.52	1.8	9.6
31	223	---	30	35	---	8.7	---	4.6	---	0.69	1.8	---
TOTAL	1,493.6	1,830	2,851	623	2,149	807.2	620.2	1,883.8	277.1	74.32	1,287.94	132.57
MEAN	48.2	61.0	92.0	20.1	74.1	26.0	20.7	60.8	9.24	2.40	41.5	4.42
MAX	333	160	289	35	159	108	105	321	39	17	378	15
MIN	8.9	15	13	13	24	7.6	4.1	4.6	1.9	0.16	0.22	0.78
CFSM	0.94	1.20	1.80	0.39	1.45	0.51	0.41	1.19	0.18	0.05	0.81	0.09
IN.	1.09	1.33	2.08	0.45	1.57	0.59	0.45	1.37	0.20	0.05	0.94	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	48.3	33.9	40.1	37.2	63.6	63.5	53.4	46.5	17.1	22.6	49.0	111
MAX	166	61.0	92.0	91.1	98.3	180	150	173	48.3	111	232	462
(WY)	(2000)	(2004)	(2004)	(2000)	(2000)	(2003)	(2003)	(2003)	(2001)	(2003)	(2003)	(1999)
MIN	0.52	0.35	0.52	9.29	22.1	21.4	20.1	2.09	0.50	1.77	0.16	0.01
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2002)	(1999)	(2001)	(2002)	(2000)	(1999)	(2002)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	40,410.02		14,029.73		45.0	
ANNUAL MEAN	111		38.3		107 2003	
HIGHEST ANNUAL MEAN					14.1 2002	
LOWEST ANNUAL MEAN					3,000 Sep 17, 1999	
HIGHEST DAILY MEAN	1,110	Apr 11	378	Aug 15		
LOWEST DAILY MEAN	0.29	Jul 1	0.16	Jul 18	0.00 Sep 6, 2002	
ANNUAL SEVEN-DAY MINIMUM	0.72	Jun 25	0.25	Jul 16	0.00 Sep 6, 2002	
MAXIMUM PEAK FLOW			390	Aug 15	NOT DETERMINED*	
MAXIMUM PEAK STAGE			9.14	Aug 15	19.03* Sep 17, 1999	
INSTANTANEOUS LOW FLOW			0.12	Jul 19	0.00* Jun 9, 1999	
ANNUAL RUNOFF (CFSM)	2.17		0.752		0.882	
ANNUAL RUNOFF (INCHES)	29.48		10.23		11.98	
10 PERCENT EXCEEDS	287		108		126	
50 PERCENT EXCEEDS	48		17		13	
90 PERCENT EXCEEDS	11		1.2		0.47	

* See REMARKS.

