

ALBEMARLE SOUND BASIN

0204382800 PASQUOTANK RIVER NEAR SOUTH MILLS, NC

LOCATION.--Lat 36°25'18", long 76°20'34", Camden County, Hydrologic Unit 03010205, at bridge on US Highway 17, 1 mi below Newland Canal and 2 mi southwest of South Mills.

DRAINAGE AREA.--Approximately 64.0 mi².

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is 4.52 ft below NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. This site is strongly affected by astronomical and wind tides. The astronomical tides occur at primary harmonic periods of 12.42 hours and 24.8 hours. The published 24.0 hour mean daily discharge data for this site may be affected by aliasing due to tides and can contain fluctuations that are not representative of net downstream discharge.

DISCHARGE DCP, 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	-7.7	-5.2	-0.49	1.0	43	28	152	43	e2.0	-8.1	-7.2	-7.8
2	-18	-5.8	-0.14	-1.3	49	21	178	34	e-5.0	-4.4	-2.0	2.4
3	-26	0.74	-2.7	e3.0	41	43	164	68	e-15	-2.8	2.7	-21
4	-14	-4.4	-7.8	e-4.0	e43	51	211	80	-21	-0.32	-9.5	-31
5	-15	-0.58	-3.3	-6.2	e39	40	193	85	-18	3.1	-6.5	-9.2
6	2.4	e-3.5	-5.2	-3.6	35	41	153	86	e-10	0.92	5.0	0.48
7	5.3	-10	-3.0	5.6	66	41	120	79	e-15	-3.2	0.40	-0.46
8	-1.7	-6.8	-5.0	-0.02	89	38	101	80	e5.0	-5.3	e5.0	e-10
9	-7.6	-1.4	0.73	-3.8	77	34	108	67	e-5.0	e-5.0	e-5.0	-4.5
10	-13	-9.2	-3.4	0.84	69	36	130	72	e-10	e-10	e-10	e5.0
11	-7.7	-2.1	-3.6	-1.2	77	32	129	66	-7.5	4.0	e-5.0	e-5.0
12	-5.7	-1.1	-5.5	-1.0	67	37	121	53	-4.8	e-5.0	e-15	e-10
13	-12	-4.1	-8.9	9.4	65	69	118	36	2.0	e5.0	e-10	-22
14	-19	-5.1	-11	1.5	62	90	115	64	-28	1.3	-3.6	-33
15	-4.0	-2.4	4.6	1.6	55	85	108	51	e-20	-2.0	-1.3	-5.0
16	-5.6	-4.4	-7.7	2.1	55	82	108	39	e-10	0.58	3.6	-14
17	-0.24	-2.2	-8.5	-0.27	56	90	104	37	-4.6	-2.2	-5.2	12
18	-3.0	-6.6	-1.6	1.4	52	143	96	38	-9.2	-12	0.02	-2.3
19	-9.8	-6.4	-8.1	18	45	161	89	35	-3.4	-13	-1.8	-7.0
20	-6.0	-2.9	-1.4	123	38	e145	90	30	-0.35	3.6	-2.3	-7.2
21	-3.1	-6.7	1.6	93	51	e150	90	24	-5.5	-4.2	5.1	-9.7
22	-4.3	-7.9	-2.9	71	45	143	78	25	-9.2	-9.8	-11	-3.9
23	-10	-4.6	-8.8	64	46	117	77	21	-4.7	-30	-2.9	-3.6
24	-3.8	-15	0.93	65	42	105	62	14	-7.6	0.27	-0.54	-5.2
25	-7.2	-6.6	-3.8	72	34	103	53	19	e-5.0	0.20	1.6	-5.6
26	-5.8	-2.0	-0.97	71	31	86	65	e15	-6.4	-4.0	-5.7	-22
27	-4.1	-5.0	-5.2	63	39	103	56	e20	-5.5	-4.8	-4.4	-72
28	e-6.0	-14	-9.6	59	33	100	47	e5.0	1.4	2.2	18	-60
29	-5.0	-9.8	-0.08	54	---	87	50	e10	13	-1.5	e25	25
30	-7.9	-11	-5.0	50	---	83	44	e-5.0	-1.7	3.1	8.6	-3.4
31	-5.7	---	-1.7	48	---	100	---	e-1.0	---	3.0	5.4	---
TOTAL	-231.24	-166.04	-117.52	856.05	1444	2484	3210	1290.0	-209.05	-100.35	-28.52	-329.98
MEAN	-7.459	-5.535	-3.791	27.61	51.57	80.13	107.0	41.61	-6.968	-3.237	-0.920	-11.00
MAX	5.3	0.74	4.6	123	89	161	211	86	13	5.0	25	25
MIN	-26	-15	-11	-6.2	31	21	44	-5.0	-28	-30	-15	-72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

MEAN	106.7	65.00	77.68	119.2	171.8	152.1	145.5	86.13	54.90	64.87	52.00	146.5
MAX	430	205	172	189	367	277	183	127	130	160	172	588
(WY)	2000	2000	1997	1998	1998	1998	1998	2000	2000	2000	1996	1999
MIN	-7.46	-5.53	-3.79	27.6	51.6	80.1	107	19.4	-6.97	-3.24	-0.92	-11.0
(WY)	2002	2002	2002	2002	2002	2002	2002	2001	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1996 - 2002

ANNUAL TOTAL	14752.55	8101.35		
ANNUAL MEAN	40.42	22.20		
HIGHEST ANNUAL MEAN			182	2000
LOWEST ANNUAL MEAN			22.2	2002
HIGHEST DAILY MEAN	276	Jun 17	211	Apr 4
LOWEST DAILY MEAN	-42	Sep 20	-72	Sep 27
ANNUAL SEVEN-DAY MINIMUM	-22	Sep 18	-25	Sep 22
MAXIMUM PEAK FLOW			230	Apr 4
MAXIMUM PEAK STAGE			6.58	Sep 28
INSTANTANEOUS LOW FLOW			-151	Sep 28
10 PERCENT EXCEEDS	124		89	
50 PERCENT EXCEEDS	17		-0.08	
90 PERCENT EXCEEDS	-7.9		-10	

e Estimated.

Note.--Negative values indicate reverse flow.

0204382800 PASQUOTANK RIVER NEAR SOUTH MILLS, NC--Continued

