NEUSE RIVER BASIN

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC

LOCATION.--Lat 36°07'54", long 78°50'00", Durham County, Hydrologic Unit 03020201, on left bank at culvert on Secondary Road 1680, 1.5 mi southeast of Willardville.

DRAINAGE AREA.--1.14 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- March 1988 to September 1990, October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. No flow at times during most years. Maximum discharge for period of record, from rating curve extended above 70 ft³/s, on basis of computation of flow through culvert with road overflow. Maximum gage height for period of record from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.02	03	e 02	08	19	12	13	4 0	03	.12	.06
2	.26	.02	.03	e.03	.06	.18	5.2	.11	1.8	.04	.07	.03
3	.23	.03	.03	e.04	.06	.18	2.0	.09	.47	.02	.05	.03
4	.24	.02 .03 .03 .05	.03	.06	.05	1.4	1.3	.08	.26	.05	.04	.04
5	.25	.05	.04	.06	.10	1.4	12 5.2 2.0 1.3 .92	.08	.19	.03 .04 .02 .05 .08	.03	.04
6	.25	.04	.04	.06	.07	.81	.76 .64 .55 .49 .42	.08 .07 .09 .07 .08	.13	.02	.02	.02
7	.17	.06	.03	.06	.06	.45	.64	.07	.12	.02 .01 .03 .02 .02	.01	.01
8	.11	.06	.02	.08	.06	.31	.55	.09	.10	.03	.01	.00
9	.13	.08	.02	.06	.06	.27	.49	.07	.08	.02	.01 .01 .02	.01
10												.05
11	.10	.04	.02	.04	.06 .09 .16 .19 .19	.18	.36	.07	.05	.01 .01 .01 .01 .00	.21 .11 .09 .04 .02	.03
12	.08	.04	.02	.05	.09	.16	.34	.10	.05	.01	.11	.00
13	.06	.05	.02	.04	.16	.20	.33	.11	.08	.01	.09	.00
14	.04	.10	.04	.05	.19	.16	.30	.08	.16	.01	.04	.00
15												
16	.03	.03	.05	.06	.21	.34	.26 .27 .25 .22 .21	.26	.08	.00	.02	.00 .00 .00 .00
17	.02	.03	.44	.09	8.3	.27	.27	.28	.07	.00	.02	.00
18	.02	.03	.13	.14	1.4	.21	.25	.18	.04	.02	.04	.00
19 20	.04	.06	.10	.18	.64	.18	.22	.13	.04	.02	.04	.00
20					.43					.01	.02	.00
21	.03	.06 .04 .04 .04 .17	.11	.59	.32	20	.20 .18 .18 .17 .34	.12	.03	.00	.02	.00
22	.04	.04	e.06	.29	.28	5.9	.18	.14	.16 .21 .05 .04	.00	.01	.00
23	.03	.04	e.04	.21	.33	1.6	.18	.18	.21	.00	.00	
24 25	.03	.04	e.03	.17	.45	.99	.17	.14	.05	.00 .01 .00	.03	.05
25	.04			.14				.12	.04	.00		.03
26	.03	.16	e.04 e.03 e.03 e.03 e.02 e.02	.13	.40	.53	.23	.99 .27 .18 .17 .10 .07	.03 .03 .02 .02 .02	.04 12 .46 .32 .51 .22	.01	.00
27	.03	.06	e.03	.12	.27	.42	.18	.27	.03	12	.02	.00
28	.02	.04	e.03	.09	.23	.37	.17	.18	.02	.46	.08	.00
29 30	.02	.03	e.03	.09		16	.14 .13	.17	.02	.32	.04	.00
30	.02	.03	e.02	.14		43	.13	.10	.02	.32 .51 .22	.08	.00
			0.02	• = =		.53 .42 .37 16 23 4.3		.07		.22		
	2.77	1.67	1.70	4.81	15.00	81.81	29.02 .97 .12 .13 .85 .95	4.78	8.54	13.97	1.33	0.40
MEAN	.089	.056	.055	.16	.54	2.64	.97	.15	.28	.45	.043	.013
MIN	.26	.1/	.44	1.5	8.3	∠3 16	12	.99	4.0	12	.21	.06
CFSM	.02	.02	.02	14	47	2 31	.15	.07	25	40	.00	01
IN.	.09	.05	.06	.16	.49	2.67	.95	.16	.28	.46	.04	.01
							BY WATER)			
MEAN	.39	.43	.78	1.92	2.31	2.55	1.42 2.46 1997 .064 1995	.68	.56	.29	.11 .50 1989	1.59
MAX	1.46	1.27	3.26	3.17	5.41	8.30	2.46	2.20	4.07	1.26	.50	8.60
(WY)	1990	1996	1990	1998	1998	1998	1997	1989	1995			
MIN	.009	.056	.014	.16	.54	.45	.064	.15	.052	.003	.001	.000
(WY)	1999	2001	1989	2001	2001	1988	1995	2001	1988	1988	1988	1990
SUMMARY	STATISTI	ICS	FOR 2	2000 CALE	NDAR YEAR	F	OR 2001 WA	TER YEAR		WATER YE	ARS 1987	- 2001®
ANNUAL TOTAL ANNUAL MEAN			223.10				165.80			1.12		
				.61				.45				1000
HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN										1.58		1996
HIGHEST DAILY MEAN				10	Apr 19		22	Mar 20		225	Son	2001 6 1006
LOWEST DAILY MEAN				12 Apr 18 00 Tul 10			23	1 1 1 1 1 1 1 1 1 1		225	Jun 2	2 1988
ANNUAL SEVEN-DAY MINIMUM			.01 Jul 5				00 Sep 12			.00	Jul	2 1988
MAXIMUM PEAK FLOW							93 Mar 29			1410*	Sep	6 1996
MAXIMUM PEAK STAGE							4.86	Mar 29		7.77	* Sep	6 1996
INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM)			12 Apr 18 .00 Jul 10 .01 Jul 5 .53 7.28				.00* Jul 15			.00* Jun 15 1988		
			.53				.40			.98		
	RUNOFF (I											
	ENT EXCEP		1.7 .16				.44 .06			1.9 .22		
50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			.02				.05			.22		
50 I DIG				.0	-		.01			.00		
	and the second sec											

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Estimated. See PERIOD OF RECORD. @ * See REMARKS.

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