

NEUSE RIVER BASIN

02084909 SEVENMILE CREEK NEAR EFLAND, NC

LOCATION.--Lat 36°03'56", long 79°08'39", Orange County, Hydrologic Unit 03020201, at upstream side of culvert on I-85, 1 mi upstream from mouth, and 1.5 mi southeast of Efland.

DRAINAGE AREA.--14.1 mi².

PERIOD OF RECORD.--July 1981 to July 1982, June 1987 to current year.

REVISED RECORDS.--WRD NC-96-1: 1988-95(M).

GAGE.--Water-stage recorder. Elevation of gage is 560 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges and those for Oct., Nov., and Dec. 1-16, which are poor. Maximum discharge for period of record from rating curve extended above 1,000 ft³/s, on the basis of computation of peak flow through culvert; maximum gage height 15.47 ft, from floodmark. No flow occurs periodically most years.

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	1.3	.92	1.0	3.3	3.4	6.5	245	e4.0	62	.55	3.9	.79
2	1.3	.87	1.2	2.7	2.9	6.0	124	e3.8	48	.51	2.8	2.7
3	1.3	.82	1.4	2.4	2.7	6.2	36	e3.6	16	.40	1.9	.98
4	1.3	.74	1.2	2.5	2.6	35	22	e3.4	9.3	.48	1.1	.71
5	1.6	.71	1.2	2.8	3.0	32	13	e3.2	7.4	.96	.83	1.7
6	1.7	.77	1.1	3.1	3.1	19	9.6	e3.0	5.9	.69	.53	.97
7	1.5	.84	1.0	2.9	2.8	14	7.5	e3.0	8.5	.42	.55	.74
8	1.2	.90	.98	3.5	2.5	9.5	6.5	e2.9	5.9	4.4	.45	.64
9	1.4	.95	.90	3.1	2.5	7.3	6.0	e2.8	4.5	3.9	.36	.27
10	1.9	1.1	.94	2.6	3.0	5.8	5.1	e2.7	3.0	1.1	.29	.19
11	1.6	1.1	.56	2.6	3.9	5.5	4.6	e2.5	2.1	.57	5.9	.13
12	1.3	.90	.36	2.8	3.8	5.5	4.5	e2.5	2.2	.33	24	.09
13	1.1	.81	.33	2.7	7.4	6.3	4.3	e2.7	2.9	.27	3.9	.06
14	.88	.99	.43	3.3	7.7	5.6	4.0	e2.2	13	.23	2.5	.06
15	.87	.74	.47	3.3	6.6	11	3.7	e2.0	8.3	.18	1.7	.07
16	.91	.59	.94	2.9	6.8	19	4.3	16	4.3	.14	1.2	.06
17	.95	.37	107	2.5	169	9.8	4.2	4.9	2.5	.10	.83	.06
18	.95	.32	15	3.6	31	6.2	5.9	4.2	1.6	1.3	.85	.06
19	.91	.38	8.3	5.7	15	4.7	5.7	3.0	1.3	6.7	4.2	.04
20	.99	.59	7.2	36	9.7	11	5.8	2.7	1.0	1.3	2.5	.07
21	.93	.67	6.1	18	7.0	203	e5.5	2.6	.85	.50	1.3	.13
22	.77	.69	5.8	8.7	6.6	41	e5.2	3.2	.96	.25	.72	.21
23	.68	.59	5.4	5.9	7.2	18	e5.0	5.3	3.3	.24	.53	.17
24	.63	.65	5.1	4.6	9.1	10	e4.8	5.1	2.7	.36	.45	.28
25	.91	1.6	4.9	4.2	8.8	6.6	e9.0	4.4	1.4	.81	.35	.59
26	1.0	5.2	4.6	4.1	9.3	5.2	e8.0	7.1	2.6	6.2	.30	.33
27	.96	1.2	4.4	3.4	7.7	4.0	e7.0	6.8	2.1	40	.32	.22
28	.94	.94	4.6	3.2	7.2	3.6	e6.0	4.5	.93	10	.48	.18
29	.98	1.1	4.5	2.7	---	97	e5.0	4.3	.69	7.4	.33	.16
30	.85	1.0	4.3	3.6	---	255	e4.5	3.5	.57	15	.30	.13
31	.91	---	3.8	4.3	---	60	---	3.7	---	5.9	.32	---
TOTAL	34.52	29.05	205.01	157.0	352.3	929.3	581.7	125.6	225.80	111.19	65.69	12.79
MEAN	1.11	.97	6.61	5.06	12.6	30.0	19.4	4.05	7.53	3.59	2.12	.43
MAX	1.9	5.2	107	36	169	255	245	16	62	40	24	2.7
MIN	.63	.32	.33	2.4	2.5	3.6	3.7	2.0	.57	.10	.29	.04
CFSM	.08	.07	.47	.36	.89	2.13	1.38	.29	.53	.25	.15	.03
IN.	.09	.08	.54	.41	.93	2.45	1.53	.33	.60	.29	.17	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	6.65	8.15	9.39	24.6	25.1	31.7	19.5	9.74	8.00	4.08	3.08	9.82		
MAX	24.9	28.9	17.6	58.2	62.9	76.6	36.3	36.3	30.6	14.4	8.27	54.4		
(WY)	1996	1996	1991	1991	1998	1998	1993	1989	1995	1989	1989	1996		
MIN	.065	.064	2.90	5.06	4.35	4.39	.99	1.26	.53	.21	.33	.027		
(WY)	1999	1999	1992	2001	1999	1988	1995	1995	1999	1988	1998	1990		

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1988 - 2001

ANNUAL TOTAL	5344.56	2829.95		
ANNUAL MEAN	14.6	7.75		
HIGHEST ANNUAL MEAN			13.3	
LOWEST ANNUAL MEAN			20.7	1996
HIGHEST DAILY MEAN	359	Mar 17	5.92	1988
LOWEST DAILY MEAN	.32	Nov 18	.00	Aug 3 1988
ANNUAL SEVEN-DAY MINIMUM	.52	Nov 16	.06	Sep 13 1988
MAXIMUM PEAK FLOW			562	Mar 30 1996
MAXIMUM PEAK STAGE			8.63	Mar 30 1996
INSTANTANEOUS LOW FLOW			.03	Sep 19 1987
ANNUAL RUNOFF (CFSM)	1.04		.55	
ANNUAL RUNOFF (INCHES)	14.10		7.47	12.77
10 PERCENT EXCEEDS	42		9.7	24
50 PERCENT EXCEEDS	4.4		2.7	4.6
90 PERCENT EXCEEDS	.93		.33	.27

e Estimated.

* See REMARKS.

02084909 SEVENMILE CREEK NEAR EFLAND, NC--Continued

