

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 mi<sup>2</sup>.

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 NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges and those for Oct. to Dec., Apr., and May which are poor. Maximum discharge for period of record from rating curve extended above 1,000 ft<sup>3</sup>/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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.14	0.30	0.12	4.8	3.3	0.85	15	0.81	0.11	0.01	0.01	42
2	0.12	0.37	0.09	4.8	3.0	1.3	6.3	0.86	0.10	0.01	0.00	6.0
3	0.13	0.48	0.08	5.3	2.7	18	5.5	0.73	0.07	0.01	0.00	1.6
4	0.14	0.48	e0.04	5.8	2.5	9.5	4.3	0.78	0.07	0.01	0.00	0.96
5	0.14	0.52	e0.04	6.4	2.3	3.0	3.8	1.2	0.07	0.02	0.00	0.74
6	0.17	0.49	e0.03	11	2.4	2.0	3.1	1.2	0.07	0.01	0.00	0.67
7	0.09	0.65	e0.03	12	26	1.5	2.7	1.2	0.08	0.01	0.00	0.64
8	0.11	0.59	e0.03	7.6	28	1.3	2.4	1.2	0.08	0.00	0.00	0.62
9	0.09	0.50	e0.03	5.9	9.4	1.5	3.6	1.2	0.06	0.00	0.00	0.59
10	0.09	0.40	e0.20	4.2	5.6	2.0	4.8	1.7	0.06	0.00	0.00	0.56
11	0.08	0.40	5.9	4.1	4.4	1.3	3.8	0.73	0.05	0.01	0.00	0.48
12	0.09	0.44	2.2	3.6	3.4	1.2	2.6	0.58	0.04	0.01	0.00	0.44
13	0.08	0.39	1.00	3.5	3.0	1.7	2.5	1.3	0.04	0.00	0.00	0.39
14	0.59	0.39	0.57	3.1	2.6	1.5	2.2	1.9	0.04	0.00	0.00	0.46
15	9.6	0.36	0.28	2.6	2.3	1.2	3.1	1.6	0.03	0.00	0.00	0.77
16	6.6	0.28	0.23	2.0	1.9	1.1	2.4	1.2	0.02	0.00	0.00	1.4
17	3.9	0.27	0.27	1.6	1.6	3.4	1.7	0.98	0.02	0.00	0.00	1.4
18	2.4	0.27	0.47	1.6	1.6	6.0	1.5	1.0	0.02	0.00	0.00	1.2
19	1.7	0.22	0.77	28	1.5	3.3	2.0	0.88	0.01	0.00	0.00	1.3
20	0.91	0.17	1.2	51	1.4	2.2	2.5	0.65	0.01	0.00	0.00	1.4
21	0.42	0.13	1.2	7.2	1.4	3.4	0.99	0.60	0.01	0.00	0.00	1.3
22	0.22	0.11	0.88	5.4	1.2	4.0	0.68	0.58	0.01	0.00	0.00	1.3
23	0.23	0.13	0.82	38	1.2	1.9	0.78	0.39	0.01	0.00	0.00	1.3
24	0.26	0.22	2.0	28	1.2	1.4	0.71	0.22	0.01	0.07	0.00	1.1
25	0.25	0.20	2.2	18	1.0	1.2	0.77	0.21	0.00	0.01	0.00	1.0
26	0.14	0.22	4.6	9.2	0.93	1.1	0.83	0.19	0.00	0.03	0.00	1.1
27	0.17	0.22	5.1	5.1	0.93	3.9	0.81	0.19	0.01	0.02	0.02	1.8
28	0.22	0.15	5.3	4.1	0.92	2.2	0.89	0.16	0.01	0.02	0.01	2.2
29	0.22	0.11	5.3	3.6	---	1.9	0.86	0.14	0.01	0.01	0.00	2.1
30	0.26	0.12	5.1	3.4	---	1.9	0.84	0.12	0.01	0.01	0.08	2.1
31	0.26	---	5.1	3.3	---	2.6	---	0.12	---	0.01	0.37	---
TOTAL	29.82	9.58	51.18	294.2	117.68	89.35	83.96	24.62	1.13	0.28	0.49	78.92
MEAN	0.962	0.319	1.651	9.490	4.203	2.882	2.799	0.794	0.038	0.009	0.016	2.631
MAX	9.6	0.65	5.9	51	28	18	15	1.9	0.11	0.07	0.37	42
MIN	0.08	0.11	0.03	1.6	0.92	0.85	0.68	0.12	0.00	0.00	0.00	0.39
CFSM	0.07	0.02	0.12	0.67	0.30	0.20	0.20	0.06	0.00	0.00	0.00	0.19
IN.	0.08	0.03	0.14	0.78	0.31	0.24	0.22	0.06	0.00	0.00	0.00	0.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002,® BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	6.274	7.628	8.878	23.60	23.71	29.82	18.37	9.139	7.473	3.810	2.877	9.339			
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	0.065	0.064	1.65	5.06	4.20	2.88	0.99	0.79	0.038	0.009	0.016	0.027			
(WY)	1999	1999	2002	2001	2002	2002	1995	2002	2002	2002	2002	1990			

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1988 - 2002®

ANNUAL TOTAL	2651.95	781.21		
ANNUAL MEAN	7.266	2.140	12.51	
HIGHEST ANNUAL MEAN			20.7	1996
LOWEST ANNUAL MEAN			2.14	2002
HIGHEST DAILY MEAN	255	Mar 30	51	Jan 20
LOWEST DAILY MEAN	0.03	Dec 6	0.00	Jun 25
ANNUAL SEVEN-DAY MINIMUM	0.04	Dec 3	0.00	Jul 13
MAXIMUM PEAK FLOW			124	Jan 20
MAXIMUM PEAK STAGE			4.63	Jan 20
INSTANTANEOUS LOW FLOW			0.00*	Jun 25
ANNUAL RUNOFF (CFSM)	0.52		0.15	0.89
ANNUAL RUNOFF (INCHES)	7.00		2.06	12.06
10 PERCENT EXCEEDS	9.6		4.9	23
50 PERCENT EXCEEDS	2.6		0.65	4.2
90 PERCENT EXCEEDS	0.14		0.00	0.20

e Estimated.  
® See PERIOD OF RECORD.  
\* See REMARKS.

02084909 SEVENMILE CREEK NEAR EFLAND, NC--Continued

