

02085000 ENO RIVER AT HILLSBOROUGH, NC

LOCATION.--Lat 36°04'16", long 79°05'44", Orange County, Hydrologic Unit 03020201, on left bank 900 ft downstream of bridge on State Highway 86 at Hillsborough, and 2 mi downstream of Sevenmile Creek.

DRAINAGE AREA.--66.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to September 1971, October 1985 to current year.

REVISED RECORD.--WDR NC-96-1: 1945(M).

GAGE.--Water-stage recorder. Datum of gage is 487.44 ft above NGVD of 1929. Telephone and satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Diversions upstream from station of 1.1 ft³/s by Orange-Alamance Water System, Inc. and 2.0 ft³/s by town of Hillsborough for municipal supply, part of which is returned downstream of station as treated effluent. Maximum gage height for period of record, 21.13 ft, from high-water mark in gage shelter. No flow for part of Sept. 13, 2002. Minimum discharge for current water year also occurred July 15, 22.

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	25	26	25	34	47	69	164	22	8.6	8.7	38	120
2	25	25	19	33	41	60	120	39	7.1	6.5	38	58
3	22	24	17	33	227	75	76	139	5.6	4.9	161	33
4	20	22	15	33	189	61	58	85	19	43	39	24
5	19	22	29	36	107	50	45	47	22	12	16	17
6	19	25	28	46	93	52	37	33	12	5.9	13	57
7	19	27	23	35	225	56	34	25	8.7	4.5	7.8	163
8	19	24	19	30	129	43	34	20	7.8	3.2	5.6	628
9	24	21	17	32	86	36	33	17	8.4	2.7	3.9	300
10	29	17	89	35	71	34	29	15	7.6	2.5	4.3	119
11	31	17	514	29	61	33	29	14	8.2	2.5	5.1	68
12	29	15	162	29	67	30	56	12	11	4.4	8.7	45
13	22	19	93	31	83	29	129	11	9.3	2.9	7.2	32
14	23	15	339	30	65	26	139	11	7.0	2.3	223	27
15	53	13	252	31	58	29	102	10	5.9	2.2	84	38
16	32	15	137	27	77	49	68	9.4	6.3	4.7	33	33
17	22	14	134	25	71	89	53	9.0	5.9	6.3	50	123
18	20	16	148	35	63	64	44	9.4	5.7	11	247	371
19	19	51	103	40	62	58	37	8.0	5.2	7.5	46	162
20	15	78	77	32	55	43	34	11	4.4	35	22	80
21	15	35	60	28	50	40	31	13	3.4	7.3	14	49
22	14	23	53	27	45	35	26	10	3.1	2.8	12	37
23	13	18	50	27	39	30	24	9.6	6.4	3.0	9.7	29
24	12	16	55	25	38	26	22	8.6	13	5.3	7.4	23
25	12	16	56	27	37	25	22	7.2	9.5	7.4	6.0	19
26	13	15	47	41	34	25	20	7.4	20	6.3	4.6	17
27	17	13	42	34	48	25	30	6.6	23	14	4.3	17
28	25	17	40	34	54	26	24	8.6	11	29	4.7	60
29	117	70	37	32	85	23	19	8.4	39	123	3.6	69
30	66	39	37	40	---	22	18	9.9	14	142	670	37
31	36	---	36	64	---	29	---	11	---	26	377	---
TOTAL	827	748	2,753	1,035	2,307	1,292	1,557	647.1	318.1	538.8	2,165.9	2,855
MEAN	26.7	24.9	88.8	33.4	79.6	41.7	51.9	20.9	10.6	17.4	69.9	95.2
MAX	117	78	514	64	227	89	164	139	39	142	670	628
MIN	12	13	15	25	34	22	18	6.6	3.1	2.2	3.6	17
CFSM	0.40	0.38	1.35	0.51	1.21	0.63	0.79	0.32	0.16	0.26	1.06	1.44
IN.	0.47	0.42	1.55	0.58	1.30	0.73	0.88	0.36	0.18	0.30	1.22	1.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004,® BY WATER YEAR (WY)

MEAN	29.3	43.5	56.6	89.1	111	120	95.7	51.3	38.7	37.5	33.1	38.7
MAX	181	213	183	326	311	354	304	175	210	359	256	342
(WY)	(1930)	(1986)	(2003)	(1936)	(1998)	(1998)	(2003)	(2003)	(1995)	(1938)	(1939)	(1945)
MIN	0.63	0.82	3.64	5.16	17.2	22.4	12.4	4.17	1.75	1.28	0.85	0.28
(WY)	(1987)	(1942)	(1942)	(1942)	(2002)	(2002)	(2002)	(2002)	(1986)	(1986)	(1987)	(1954)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004 [@]	
ANNUAL TOTAL	49,054		17,043.9		61.8	
ANNUAL MEAN	134		46.6		9.67	
HIGHEST ANNUAL MEAN					154	2003
LOWEST ANNUAL MEAN					9.67	2002
HIGHEST DAILY MEAN	2,590	Mar 20	670	Aug 30	4,600	Sep 6, 1996
LOWEST DAILY MEAN	12	Oct 24	2.2	Jul 15	0.02	Jul 10, 1986
ANNUAL SEVEN-DAY MINIMUM	13	Oct 20	2.8	Jul 9	0.10	Oct 6, 1954
MAXIMUM PEAK FLOW			1,560	Aug 30	10,800	Sep 6, 1996
MAXIMUM PEAK STAGE			10.70	Aug 30	21.13*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			2.0*	Jul 14	0.00*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	2.04		0.706		0.937	
ANNUAL RUNOFF (INCHES)	27.65		9.61		12.73	
10 PERCENT EXCEEDS	341		93		118	
50 PERCENT EXCEEDS	54		27		26	
90 PERCENT EXCEEDS	19		6.5		4.0	

[@] See PERIOD OF RECORD.

* See REMARKS.

