

ROANOKE RIVER BASIN

02077303 HYCO RIVER BELOW AFTERBAY DAM NEAR MCGEHEES MILL, NC

LOCATION.--Lat 36°31'24", long 78°59'48", Person County, Hydrologic Unit 03010104, on left bank 200 ft downstream from Afterbay Reservoir dam of Carolina Power and Light Company, 1.2 mi upstream from Ghent Creek, and 1.8 mi east-northeast of McGehees Mill.

DRAINAGE AREA.--202 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 342.98 ft above sea level (levels by Carolina Power and Light Company). From August 1964 to September 1973, records published as "Hyco River at McGehees Mill, NC" at site 2.8 mi upstream, at datum 349.78 ft. Water-temperature recorder operated at site 600 ft downstream on right bank from June 1974 to Sept. 1995. Satellite telemetry at station.

REMARKS.-- Records good except those for estimated daily discharges, which are poor. Flow regulated by Roxboro Steam-Electric Generating Plant Afterbay Reservoir.

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	16	16	13	e2.5	e3.4	31	1550	19	20	13	14	11
2	17	16	13	e2.5	e3.4	31	2060	19	224	13	14	11
3	17	16	13	e2.5	e3.4	31	1750	19	141	13	14	25
4	17	16	13	e2.5	e3.4	49	698	19	12	13	14	25
5	17	16	13	e2.5	e3.4	73	76	19	e12	13	14	24
6	17	15	13	e2.5	e3.6	184	77	19	e500	13	14	25
7	17	15	13	e2.5	e3.8	255	79	20	e445	15	13	25
8	16	16	e13	e2.5	e4.0	137	79	19	414	16	13	25
9	16	16	e13	e2.5	e4.0	66	81	19	307	16	13	24
10	16	16	e13	e2.5	e4.0	66	81	19	16	16	12	21
11	16	15	e13	e2.5	e4.0	66	82	19	15	15	12	18
12	16	15	e13	e2.5	e4.0	61	122	19	14	15	12	19
13	17	15	e13	e2.5	e9.0	57	187	19	14	15	12	19
14	17	15	e12	e2.5	e16	56	188	19	14	15	12	19
15	16	14	e12	e2.5	e16	56	187	18	14	15	13	19
16	17	14	e12	e2.5	e16	56	185	19	13	15	12	18
17	17	14	e12	e2.5	e22	57	126	16	14	15	12	18
18	17	14	e12	e2.5	e30	57	79	12	14	15	12	18
19	17	14	e2.6	e2.6	e29	57	79	11	13	15	12	18
20	16	14	e2.5	e2.6	e28	57	78	11	13	15	12	17
21	17	14	e2.5	e2.7	28	956	78	11	13	15	12	17
22	17	13	e2.5	e2.8	148	1690	78	11	13	15	12	17
23	16	14	e2.5	e2.8	185	1490	78	11	13	15	12	17
24	16	13	e2.5	e3.2	132	626	78	11	13	15	12	17
25	17	13	e2.5	e3.4	30	263	78	11	13	15	12	17
26	16	14	e2.5	e3.4	30	73	58	11	13	15	12	18
27	17	14	e2.5	e3.4	30	74	19	11	13	15	11	18
28	17	14	e2.5	e3.4	30	75	18	11	13	15	11	18
29	16	13	e2.5	e3.4	---	405	19	11	13	14	11	18
30	16	14	e2.5	e3.4	---	2190	19	11	13	14	11	18
31	16	---	e2.5	e3.4	---	2130	---	11	---	14	11	---
TOTAL	513	438	261.6	85.5	823.4	11475	8367	475	2359	453	383	574
MEAN	16.5	14.6	8.44	2.76	29.4	370	279	15.3	78.6	14.6	12.4	19.1
MAX	17	16	13	3.4	185	2190	2060	20	500	16	14	25
MIN	16	13	2.5	2.5	3.4	31	18	11	12	13	11	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

MEAN	56.0	56.6	110	364	325	417	245	117	77.6	95.8	66.1	124
MAX	351	334	361	1201	926	1165	692	864	456	1058	294	675
(WY)	1996	1986	1983	1978	1979	1993	1983	1978	1982	1975	1982	1974
MIN	3.47	2.40	2.19	2.76	11.0	18.3	12.9	7.90	3.96	9.60	1.08	1.55
(WY)	1999	1998	1998	2001	1981	1981	1985	1981	1974	1985	1999	1977

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1974 - 2001

ANNUAL TOTAL	35049.6	26207.5										
ANNUAL MEAN	95.8	71.8								170		
HIGHEST ANNUAL MEAN										392		1975
LOWEST ANNUAL MEAN										17.9		1981
HIGHEST DAILY MEAN	1440	Apr 19				2190	Mar 30		9280		Jul 14	1975
LOWEST DAILY MEAN	2.5	Dec 20				2.5	Dec 20			.27	Nov 2	1997
ANNUAL SEVEN-DAY MINIMUM	2.5	Dec 20				2.5	Dec 20			.45	Aug 3	1999
MAXIMUM PEAK FLOW						2520	Mar 30		11300		Jul 14	1975
MAXIMUM PEAK STAGE						14.19	Mar 30			24.40	Jul 14	1975
INSTANTANEOUS LOW FLOW						NOT DETERMINED				.00	Jun 26	1980
10 PERCENT EXCEEDS	285					79				381		
50 PERCENT EXCEEDS	17					15				32		
90 PERCENT EXCEEDS	14					3.0				11		

e Estimated.

02077303 HYCO RIVER BELOW AFTERBAY DAM NEAR MCGEHEES MILL, NC--Continued

