

02077303 HYCO RIVER BELOW AFTERBAY DAM NEAR MCGEHEES MILL, NC

LOCATION.--Lat 36°31'21", long 78°59'51", 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 mi².

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 NGVD of 1929 (levels by Carolina Power and Light Company). From August 1964 to September 1973, records published as "Hyc0 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. Minimum discharge for water current year also occurred Nov. 18, Dec. 3, 5.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	19	313	18	23	379	218	171	19	19	21	29
2	24	20	308	19	61	556	219	188	19	19	21	24
3	21	20	87	75	183	438	219	185	18	21	20	24
4	22	20	19	120	182	119	215	20	18	21	20	24
5	20	20	19	120	183	120	162	19	19	20	21	25
6	20	22	18	98	299	118	34	19	19	20	21	25
7	20	21	17	19	510	117	20	19	19	21	22	24
8	19	21	18	19	204	119	20	20	19	24	22	23
9	20	22	19	20	122	119	128	20	19	21	22	21
10	19	22	1,600	19	120	118	151	20	19	22	22	21
11	21	21	2,960	19	121	79	149	19	19	21	22	21
12	21	291	1,850	19	120	24	109	19	19	21	22	21
13	21	1,090	556	125	119	23	22	19	19	20	24	20
14	20	1,140	86	1,250	95	24	21	19	19	21	22	20
15	20	1,000	20	2,150	22	24	22	19	19	20	21	20
16	20	472	19	1,380	22	25	22	19	20	20	e21	20
17	19	199	19	361	23	182	22	19	20	20	e21	20
18	19	18	19	173	24	280	22	19	21	22	21	20
19	18	18	20	173	67	434	21	18	21	21	21	21
20	20	18	20	127	149	438	21	19	20	21	20	22
21	19	18	19	67	146	424	21	19	21	22	20	20
22	19	18	19	70	145	185	21	19	20	20	20	21
23	19	217	18	70	144	140	21	19	20	21	20	20
24	19	309	19	69	145	139	22	19	20	22	20	20
25	19	280	110	34	107	142	21	19	20	20	21	20
26	20	248	218	22	24	142	21	19	20	20	21	19
27	22	203	168	22	24	142	21	19	19	21	20	23
28	21	120	21	23	25	1,050	21	19	19	21	20	22
29	21	122	19	23	---	2,070	20	19	20	21	23	20
30	20	265	19	23	---	1,060	20	19	19	21	26	21
31	19	---	19	23	---	339	---	19	---	21	28	---
TOTAL	623	6,274	8,636	6,750	3,409	9,569	2,026	1,079	583	645	666	651
MEAN	20.1	209	279	218	122	309	67.5	34.8	19.4	20.8	21.5	21.7
MAX	24	1,140	2,960	2,150	510	2,070	219	188	21	24	28	29
MIN	18	18	17	18	22	23	20	18	18	19	20	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

MEAN	55.4	69.3	126	331	305	405	242	122	85.8	90.4	68.9	120
MAX	351	398	432	1,201	926	1,165	712	864	528	1,058	294	675
(WY)	(1996)	(2003)	(2003)	(1978)	(1979)	(1993)	(2003)	(1978)	(2003)	(1975)	(1982)	(1974)
MIN	3.47	2.40	2.19	2.76	4.38	6.02	5.21	4.22	3.96	6.14	1.08	1.55
(WY)	(1999)	(1998)	(1998)	(2001)	(2002)	(2002)	(2002)	(2002)	(1974)	(2002)	(1999)	(1977)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	37,270		40,911		168	
ANNUAL MEAN	102		112		394	
HIGHEST ANNUAL MEAN					5.11	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	2,960	Dec 11	2,960	Dec 11	9,280	Jul 14, 1975
LOWEST DAILY MEAN	14	Aug 12	17	Dec 7	0.27	Nov 2, 1997
ANNUAL SEVEN-DAY MINIMUM	15	Aug 9	19	May 29	0.45	Aug 3, 1999
MAXIMUM PEAK FLOW			3,040	Dec 11	11,300	Jul 14, 1975
MAXIMUM PEAK STAGE			15.17	Dec 11	24.40	Jul 14, 1975
INSTANTANEOUS LOW FLOW			16*	Nov 17	0.00	Jun 26, 1980
10 PERCENT EXCEEDS	217		217		378	
50 PERCENT EXCEEDS	22		21		31	
90 PERCENT EXCEEDS	16		19		9.4	

* See REMARKS.
e Estimated.

