

## 02077303 HYCO RIVER BELOW AFTERBAY DAM NEAR MCGEHEES MILL, NC

LOCATION.--Lat 36°31'25", long 78°59'47", 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 NGVD of 1929 (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.--No estimated daily discharges. Records good. Flow regulated by Roxboro Steam-Electric Generating Plant Afterbay Reservoir. Minimum discharge for current water year also occurred Oct. 5.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	560	55	416	152	1,230	385	52	51	58	545	72
2	1.9	360	55	55	349	1,350	369	53	52	672	369	72
3	1.8	57	54	57	111	1,720	359	52	52	746	61	72
4	1.8	148	53	58	54	1,580	349	52	52	1,140	551	82
5	1.7	338	54	58	55	717	339	53	89	567	930	891
6	2.8	376	54	58	56	676	222	53	297	58	1,010	334
7	3.5	303	55	58	57	670	867	55	462	59	510	74
8	3.7	55	55	59	296	487	2,300	55	1,090	60	489	73
9	3.7	58	56	59	617	54	3,500	56	2,370	60	612	73
10	3.6	209	56	59	595	55	3,760	55	1,920	61	1,030	74
11	497	299	557	548	369	56	3,740	55	980	61	522	73
12	118	488	804	285	269	57	2,180	55	342	61	432	73
13	4.0	998	894	54	54	57	704	55	294	61	75	73
14	11	1,080	1,490	54	54	57	244	54	543	61	75	74
15	15	392	1,930	53	55	232	241	53	762	61	76	73
16	212	288	1,550	53	56	507	239	53	1,460	62	76	73
17	357	969	62	53	57	575	237	51	1,620	61	77	72
18	345	1,820	57	53	251	789	234	51	1,500	159	75	310
19	337	1,560	143	53	545	771	88	664	609	345	75	748
20	328	518	319	52	263	2,920	51	640	176	185	75	446
21	117	471	314	52	256	5,410	52	315	58	56	75	263
22	50	144	306	52	555	2,690	52	631	169	55	75	73
23	50	54	172	52	1,300	1,450	53	2,450	309	58	74	526
24	50	55	59	51	843	300	54	1,750	235	56	74	1,190
25	49	55	731	51	601	493	53	1,060	56	58	74	961
26	50	55	1,170	51	246	707	77	3,150	56	58	73	193
27	49	56	1,090	50	272	292	363	3,600	56	58	74	152
28	49	56	418	51	730	52	152	1,160	55	57	73	71
29	206	56	56	50	---	52	52	225	57	56	72	72
30	513	56	58	50	---	471	52	219	57	56	72	72
31	579	---	652	51	---	786	---	130	---	56	71	---
TOTAL	4,012.5	11,934	13,379	2,756	9,118	27,263	21,368	16,957	15,829	5,222	8,472	7,405
MEAN	129	398	432	88.9	326	879	712	547	528	168	273	247
MAX	579	1,820	1,930	548	1,300	5,410	3,760	3,600	2,370	1,140	1,030	1,190
MIN	1.7	54	53	50	54	52	51	51	51	55	61	71

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2003, BY WATER YEAR (WY)

MEAN	56.8	66.3	117	343	314	419	252	127	90.3	95.2	70.9	124
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1974 - 2003	
ANNUAL TOTAL	30,616.3		143,715.5		172	
ANNUAL MEAN	83.9		394		394	
HIGHEST ANNUAL MEAN					5.11	2003
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	1,930	Dec 15	5,410	Mar 21	9,280	Jul 14, 1975
LOWEST DAILY MEAN	1.6	Sep 4	1.7	Oct 5	0.27	Nov 2, 1997
ANNUAL SEVEN-DAY MINIMUM	1.8	Sep 2	2.2	Oct 1	0.45	Aug 3, 1999
MAXIMUM PEAK FLOW			6,140	Mar 21	11,300	Jul 14, 1975
MAXIMUM PEAK STAGE			19.49	Mar 21	24.40	Jul 14, 1975
INSTANTANEOUS LOW FLOW			1.5*	Oct 3	0.00	Jun 26, 1980
10 PERCENT EXCEEDS	292		1,040		393	
50 PERCENT EXCEEDS	5.6		75		32	
90 PERCENT EXCEEDS	2.0		52		9.0	

\* See REMARKS.

