

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC

LOCATION.--Lat 35°47'02", long 83°06'44", Cocks County Tennessee, Hydrologic Unit 06010105, on left bank, 550 ft upstream of Browns Bridge on Waterville Road, 0.9 mi downstream of North Carolina and Tennessee state lines, 1.0 mi northwest of Waterville, and at mile 25.

DRAINAGE AREA.--538 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,360 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable regulation, caused by Walters Hydroelectric Plant, 1.0 mi upstream. Minimum discharge for period of record and current water year affected by regulation.

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	866	483	692	1,120	1,040	2,440	1,080	e1,360	267	1,820	1,020	693
2	447	439	1,040	1,730	732	2,420	683	1,500	1,070	2,810	941	931
3	654	239	985	1,400	993	1,890	1,460	839	1,210	2,620	725	784
4	1,000	398	1,150	2,220	1,270	1,760	1,700	522	1,290	2,160	1,410	1,430
5	147	910	1,430	798	1,520	577	1,260	2,140	1,040	1,100	1,370	1,310
6	146	830	1,550	1,220	1,540	2,830	1,480	17,700	1,230	1,330	1,370	269
7	521	1,310	1,210	1,450	1,580	3,060	1,970	12,600	1,440	1,470	1,240	301
8	175	831	1,220	541	1,570	2,560	1,850	6,960	2,340	1,570	728	558
9	773	311	1,080	940	716	2,380	2,520	4,570	957	1,340	879	902
10	636	429	1,340	824	1,180	2,150	3,230	3,480	1,170	1,560	705	797
11	633	1,370	1,650	813	753	1,960	3,880	2,950	1,120	1,440	1,060	667
12	166	2,070	1,430	1,250	751	1,910	3,690	2,590	1,120	1,030	1,330	234
13	155	1,610	1,510	1,030	1,120	1,630	3,350	2,470	1,480	410	1,430	785
14	281	1,200	1,290	1,610	1,550	1,690	2,890	2,370	1,160	1,480	876	727
15	367	1,440	993	1,220	2,580	1,000	2,630	2,090	1,190	2,190	966	178
16	1,340	1,460	1,170	983	2,310	891	2,290	2,030	674	1,410	844	154
17	663	2,250	1,170	520	2,100	1,880	2,010	1,960	956	1,380	581	152
18	918	1,410	1,360	439	2,230	1,280	1,890	982	1,190	1,280	614	175
19	277	1,120	871	252	2,140	1,630	2,280	1,400	1,600	1,050	680	219
20	213	954	2,490	280	1,100	2,060	1,260	1,450	976	926	639	146
21	1,020	1,410	2,280	760	1,650	2,200	1,790	1,590	1,300	1,330	664	144
22	181	1,740	1,800	955	3,620	1,060	2,100	1,600	234	1,520	226	424
23	210	846	1,250	1,260	4,640	1,290	1,740	2,040	1,040	1,150	675	2,040
24	206	266	2,080	879	3,350	1,870	2,180	1,320	865	1,370	259	1,400
25	435	1,160	3,100	581	2,720	1,270	1,560	1,500	792	1,220	625	670
26	203	1,010	2,670	374	2,540	1,350	806	1,200	811	1,130	844	947
27	212	1,250	2,490	997	2,520	1,220	244	1,130	292	506	886	832
28	871	1,260	2,270	653	2,540	1,430	1,420	1,650	818	732	1,110	282
29	836	484	1,490	1,690	---	885	1,550	1,380	966	661	782	270
30	957	197	1,860	1,650	---	e850	e1,270	1,150	1,090	1,070	791	708
31	692	---	608	1,550	---	1,520	---	1,370	---	792	229	---
TOTAL	16,201	30,687	47,529	31,989	52,355	52,943	58,063	87,893	31,688	41,857	26,499	19,129
MEAN	523	1,023	1,533	1,032	1,870	1,708	1,935	2,835	1,056	1,350	855	638
MAX	1,340	2,250	3,100	2,220	4,640	3,060	3,880	17,700	2,340	2,810	1,430	2,040
MIN	146	197	608	252	716	577	244	522	234	410	226	144
†	-13	+25	-33	-42	+78	-19	-1	-2	0	+2	-24	+42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2003, BY WATER YEAR (WY)

MEAN	348	559	763	1,227	1,578	1,756	1,613	1,348	835	761	491	385
MAX	540	1,023	1,533	2,187	3,096	3,505	2,540	2,835	1,432	1,350	855	638
(WY)	(1998)	(2003)	(2003)	(1998)	(1998)	(1997)	(1998)	(2003)	(1997)	(2003)	(2003)	(2003)
MIN	153	286	554	810	794	1,063	961	676	471	409	293	176
(WY)	(1999)	(2002)	(2002)	(2000)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(1999)

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1997 - 2003	
ANNUAL TOTAL	293,189		496,833		927 (UNADJUSTED)	
ANNUAL MEAN	803		1,361		1,361 2003	
HIGHEST ANNUAL MEAN			‡1,361		644 2002	
LOWEST ANNUAL MEAN					17,700 May 6, 2003	
HIGHEST DAILY MEAN	3,720	Mar 18	17,700	May 6	74	Nov 19, 2000
LOWEST DAILY MEAN	119	Sep 11	144	Sep 21	117	Oct 2, 1998
ANNUAL SEVEN-DAY MINIMUM	145	Sep 14	167	Sep 15	31,900	May 6, 2003
MAXIMUM PEAK FLOW			31,900 May 6		16.39 May 6, 2003	
MAXIMUM PEAK STAGE			16.39 May 6		24* Jun 23, 2002	
INSTANTANEOUS LOW FLOW			124*			
10 PERCENT EXCEEDS	1,570		2,350		1,980	
50 PERCENT EXCEEDS	608		1,180		687	
90 PERCENT EXCEEDS	156		297		166	

e Estimated.
 † Change in contents, equivalent in cubic feet per second, in Walters Reservoir, provided by Progress Energy.
 ‡ Adjusted for change in contents.
 * See REMARKS.

