

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC

LOCATION.--Lat 35°47'01", long 83°06'43", Coker 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.

REVISED RECORDS.--WDR NC-04-1: 1997(M), 1998(M), 2003(M).

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. Maximum discharge for period of record from rating curve extended above 11,000 ft³/s on basis of slope-conveyance measurement of peak flow. Minimum discharge for period of record and current water year affected by regulation.

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	2,590	1,220	2,170	938	937	1,730	2,840	1,550	1,270	1,410	1,110	1,830
2	2,330	1,090	2,460	766	774	1,910	3,250	1,430	2,100	1,350	1,500	1,450
3	2,230	1,510	2,540	1,650	961	1,580	2,200	1,420	1,530	1,380	1,370	1,050
4	2,090	1,670	1,630	1,780	1,550	1,480	2,090	1,360	1,590	1,650	1,420	378
5	1,900	1,550	1,720	2,210	736	851	2,300	1,260	1,550	1,460	1,170	1,070
6	1,820	856	2,350	1,780	532	1,160	2,360	1,560	1,220	1,760	1,270	865
7	1,620	1,010	1,830	1,800	628	1,430	1,970	764	1,480	3,510	665	1,040
8	1,320	1,430	1,690	781	702	2,270	1,890	535	1,330	3,910	1,210	871
9	1,370	1,460	3,230	496	556	2,280	1,190	1,370	1,660	2,980	1,320	908
10	1,330	1,510	3,550	950	1,420	2,020	1,500	1,620	1,200	2,440	1,270	887
11	1,180	1,190	3,450	1,120	1,730	1,860	1,980	1,250	1,760	2,730	1,180	257
12	1,410	1,510	3,190	1,780	1,150	1,950	1,910	858	1,620	1,890	893	1,010
13	1,750	2,070	2,750	1,590	683	1,400	1,960	863	5,460	2,120	917	1,000
14	1,110	1,220	2,350	2,760	1,130	1,910	2,700	1,800	3,230	2,130	645	786
15	1,770	1,190	1,530	1,610	1,140	1,980	2,760	715	2,570	1,790	595	872
16	1,560	1,460	2,210	1,070	1,190	1,780	2,280	1,340	1,970	1,560	952	1,060
17	1,820	1,440	1,950	1,660	1,740	2,010	1,400	1,300	1,850	1,740	953	623
18	1,750	1,330	1,850	1,830	1,440	1,900	1,920	1,320	1,450	1,670	1,240	518
19	1,310	1,130	983	1,810	583	989	1,900	1,090	1,460	1,810	1,400	530
20	1,200	1,090	1,590	1,420	606	555	1,860	2,370	e1,660	2,190	1,280	737
21	1,080	595	2,030	1,720	2,250	1,380	2,200	2,800	e1,750	1,850	1,400	347
22	1,030	1,520	1,990	1,710	2,350	1,560	2,110	2,270	1,550	1,760	948	566
23	308	1,560	2,540	1,400	2,060	1,600	547	1,720	1,650	1,690	1,300	612
24	275	2,420	2,380	1,350	1,900	2,120	631	1,430	1,250	1,430	1,320	332
25	775	4,380	1,910	1,150	2,090	2,110	1,340	825	1,310	1,470	988	330
26	1,240	3,250	1,630	1,440	1,590	2,040	2,360	1,530	449	1,360	820	319
27	1,450	2,850	2,080	1,470	1,620	1,320	1,940	1,380	1,330	1,680	832	749
28	1,500	2,330	1,720	1,370	2,030	2,810	2,080	851	2,180	1,440	892	751
29	1,510	2,330	1,710	1,100	---	2,450	1,520	763	1,550	1,350	1,700	797
30	1,620	2,130	1,620	681	---	2,310	1,270	618	1,290	1,230	2,040	551
31	1,060	---	1,490	1,320	---	2,250	---	1,160	---	915	2,700	---
TOTAL	45,308	50,301	66,123	44,512	36,078	54,995	58,258	41,122	52,269	57,655	37,300	23,096
MEAN	1,462	1,677	2,133	1,436	1,288	1,774	1,942	1,327	1,742	1,860	1,203	770
MAX	2,590	4,380	3,550	2,760	2,350	2,810	3,250	2,800	5,460	3,910	2,700	1,830
MIN	275	595	983	496	532	555	547	535	449	915	595	257

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	512	784	1,010	1,228	1,543	1,705	1,594	1,304	953	910	611	887
MAX	1,462	1,677	2,133	2,187	3,096	3,505	2,540	2,835	1,742	1,860	1,203	4,517
(WY)	(2005)	(2005)	(2005)	(1998)	(1998)	(1997)	(1998)	(2003)	(2005)	(2005)	(2005)	(2004)
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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	564,472		567,017		1,060	
ANNUAL MEAN	1,542		1,553		1,553	
HIGHEST ANNUAL MEAN					644	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	22,500	Sep 8	5,460	Jun 13	22,500	Sep 8, 2004
LOWEST DAILY MEAN	177	Jul 11	257	Sep 11	74	Nov 19, 2000
ANNUAL SEVEN-DAY MINIMUM	556	Aug 21	463	Sep 20	117	Oct 2, 1998
MAXIMUM PEAK FLOW			10,900	Jun 13	39,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			11.24	Jun 13	18.88	Sep 17, 2004
INSTANTANEOUS LOW FLOW			178*	Jul 27	24*	Jun 23, 2002
10 PERCENT EXCEEDS	2,480		2,350		2,090	
50 PERCENT EXCEEDS	1,240		1,490		844	
90 PERCENT EXCEEDS	581		744		189	

* See REMARKS.
e Estimated.

