

03601990 DUCK RIVER AT HIGHWAY 100 AT CENTERVILLE, TN

LOCATION.--Lat 35°47'03", long 87°27'36", Hickman County, Hydrologic Unit 06040003, on downstream right bank side of bridge on US Highway 48/100, at Defeated Creek, 0.43 mi northeast of public square in Centerville, 3.5 mi downstream from Swan Creek and at mile 72.6.

DRAINAGE AREA.--2,048 mi².

PERIOD OF RECORD.--April 1919 to September 1955, published as "at Centerville." May 2001 to current year.

GAGE.--Data collection platform. Datum of gage is 447.76 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges and discharge below 1,500 ft³/s, which are fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 14, 1948, (from graph through bi-hourly gage readings) at site downstream, 03602000 Duck River at Centerville, TN, 37.58 ft (discharge 97,700 ft/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36,900 ft³/s, Dec. 10, gage height, 26.40 ft; minimum discharge, 398 ft³/s, Aug. 15, 16, gage height, 3.12 ft.

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	582	2,040	35,500	2,920	3,260	4,630	5,410	3,810	672	587	520	3,070
2	565	1,820	34,700	2,640	2,960	4,430	10,900	6,380	807	678	512	2,200
3	545	1,710	30,900	2,440	4,280	3,960	9,890	3,620	1,030	655	486	1,540
4	523	2,410	14,600	2,290	5,240	3,240	7,520	2,610	971	576	466	1,150
5	507	3,940	8,330	2,320	4,950	2,760	5,390	2,140	1,010	548	455	e924
6	488	4,040	7,550	2,390	4,120	2,440	4,620	1,850	1,160	586	454	e803
7	481	3,540	21,700	2,990	3,620	2,270	12,000	1,650	1,600	589	470	e722
8	479	2,860	34,700	17,500	4,090	2,230	18,600	1,500	1,200	577	465	e661
9	480	2,450	34,600	21,000	4,800	2,120	18,100	1,380	1,700	576	471	e620
10	480	2,160	35,800	14,600	4,630	2,060	13,500	1,330	2,230	553	454	e600
11	480	2,010	31,500	9,030	3,960	2,010	9,030	1,260	2,460	628	477	e580
12	649	1,950	22,600	9,440	3,480	1,870	6,870	1,190	3,090	825	490	e540
13	e811	2,190	10,900	10,400	3,250	1,750	5,130	1,130	4,290	735	446	e540
14	e819	3,680	8,460	16,600	4,040	1,630	4,600	1,070	2,780	693	424	489
15	908	2,990	7,120	15,500	7,380	1,540	3,990	1,120	2,060	1,240	405	497
16	811	2,290	6,240	10,500	6,880	1,500	3,290	1,180	1,570	e1,520	413	585
17	756	1,910	5,660	7,580	5,240	1,500	2,720	1,080	1,210	1,330	549	e681
18	774	1,690	5,160	6,060	4,330	1,460	2,360	1,020	998	1,000	784	657
19	e4,880	1,560	4,530	5,070	3,830	1,430	2,130	972	885	838	624	594
20	e12,000	1,470	3,250	4,180	4,300	1,420	1,950	e968	813	750	506	584
21	e10,600	1,380	2,790	3,650	12,400	1,360	1,850	952	762	860	464	577
22	6,810	1,320	3,030	3,220	21,700	1,330	2,220	891	725	914	454	538
23	e4,020	1,360	16,300	2,850	21,300	3,270	2,900	850	e689	841	447	525
24	e2,790	6,350	20,200	2,550	11,600	3,500	3,360	830	649	787	425	485
25	2,370	13,200	14,100	2,350	7,790	2,660	2,530	782	621	706	444	479
26	2,210	12,700	8,050	2,210	6,200	2,270	2,090	746	e623	708	584	640
27	2,790	7,330	6,060	2,060	5,190	2,050	1,890	729	e623	652	649	1,060
28	e2,570	5,600	4,900	1,920	4,710	2,520	1,750	702	631	649	612	1,530
29	e2,440	4,740	3,970	2,040	---	7,680	1,880	677	625	728	606	1,110
30	2,440	13,400	3,500	3,000	---	e6,320	2,560	663	602	587	5,540	873
31	2,240	---	3,190	3,810	---	4,620	---	660	---	540	5,900	---
TOTAL	69,298	116,090	449,890	195,110	179,530	83,830	171,030	45,742	39,086	23,456	25,996	25,854
MEAN	2,235	3,870	14,510	6,294	6,412	2,704	5,701	1,476	1,303	757	839	862
MAX	12,000	13,400	35,800	21,000	21,700	7,680	18,600	6,380	4,290	1,520	5,900	3,070
MIN	479	1,320	2,790	1,920	2,960	1,330	1,750	660	602	540	405	479
(†)	-2,900	-3,900	-4,500	100	1,400	4,700	8,400	700	-900	-600	-2,000	-2,600
MEAN(‡)	2,142	3,740	14,367	6,297	6,462	2,856	5,981	1,498	1,273	737	774	775
CFSM(‡)	1.05	1.83	7.02	3.07	3.16	1.39	2.92	0.73	0.62	0.36	0.38	0.38
IN. (‡)	1.21	2.04	8.09	3.54	3.29	1.61	3.26	0.84	0.69	0.42	0.44	0.42
CAL YR 2004	MEAN(‡) 4622	CFSM(‡) 2.26	IN. (‡) 30.64									
WTR YR 2005	MEAN(‡) 3898	CFSM(‡) 1.90	IN. (‡) 25.84									

(†) Change in contents, in cfs-days in Normandy Lake.

(‡) Adjusted for change in content.

NOTE.--Contents (cfs-days) for adjustments furnished by Tennessee Valley Authority.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	1,844	3,476	7,920	5,817	9,298	5,728	4,504	4,357	2,068	1,437	1,140	1,350
MAX	2,451	5,073	14,510	11,530	16,650	10,750	5,893	13,230	4,058	3,162	1,984	2,370
(WY)	(2003)	(2003)	(2005)	(2002)	(2003)	(2002)	(2002)	(2003)	(2004)	(2004)	(2001)	(2003)
MIN	607	2,359	2,938	1,790	3,150	2,704	3,200	1,077	758	757	584	737
(WY)	(2004)	(2004)	(2004)	(2003)	(2002)	(2005)	(2004)	(2001)	(2002)	(2005)	(2002)	(2001)

03601990 DUCK RIVER AT HIGHWAY 100 AT CENTERVILLE, TN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	1,688,021		1,424,912		4,142	
ANNUAL MEAN	4,612		3,904		5,090	
HIGHEST ANNUAL MEAN					3,370	
LOWEST ANNUAL MEAN					53,200	
HIGHEST DAILY MEAN	44,400	Feb 7	35,800	Dec 10	53,200	May 8, 2003
LOWEST DAILY MEAN	479	Oct 8	405	Aug 15	405	Aug 15, 2005
ANNUAL SEVEN-DAY MINIMUM	485	Oct 5	444	Aug 10	440	Sep 9, 2002
MAXIMUM PEAK FLOW			36,900	Dec 10	54,400	May 8, 2003
MAXIMUM PEAK STAGE			26.40	Dec 10	33.10	May 8, 2003
INSTANTANEOUS LOW FLOW			a398	Aug 15	398	Aug 15, 2005
10 PERCENT EXCEEDS	8,640		9,620		8,330	
50 PERCENT EXCEEDS	2,350		1,950		1,910	
90 PERCENT EXCEEDS	807		539		587	

a Also occurred Aug. 16, 2005.

e Estimated

