03433500 HARPETH RIVER AT BELLEVUE, TN

LOCATION.--Lat 36°03'16", long 86°55'42", Davidson County, Hydrologic Unit 05130204, on right bank 45 ft upstream from bridge on State Highway 100, 0.1 mi downstream from Little Harpeth River, 0.9 mi southeast of Bellevue, and at mile 62.1.

DRAINAGE AREA.--408 mi^2, includes 15 mi^2 without surface drainage.

PERIOD OF RECORD.--April 1920 to current year. Monthly discharge only November 1929 to December 1931, published in WSP 1306.

REVISED RECORDS.--WSP 953: 1920-30, 1932-35. WSP 1386: 1948. WSP 1556: Drainage area. WSP 1910: 1960.

GAGE.--Data collection platform. Datum of gage is 541.04 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Apr. 11, 1920, to Oct. 31, 1929, Jan. 1, 1932, to Sept. 30, 1933, nonrecording gage at site 2.8 mi downstream at datum 7.85 ft lower.

REMARKS.--Records good, except for estimated daily discharges, 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.--Maximum stage since at least 1897, that of Feb. 13, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 6	1300	*20,100	*20.04	Mar 6	1130	8,330	13.06

Minimum discharge, 41 ft^3/s, July 25.

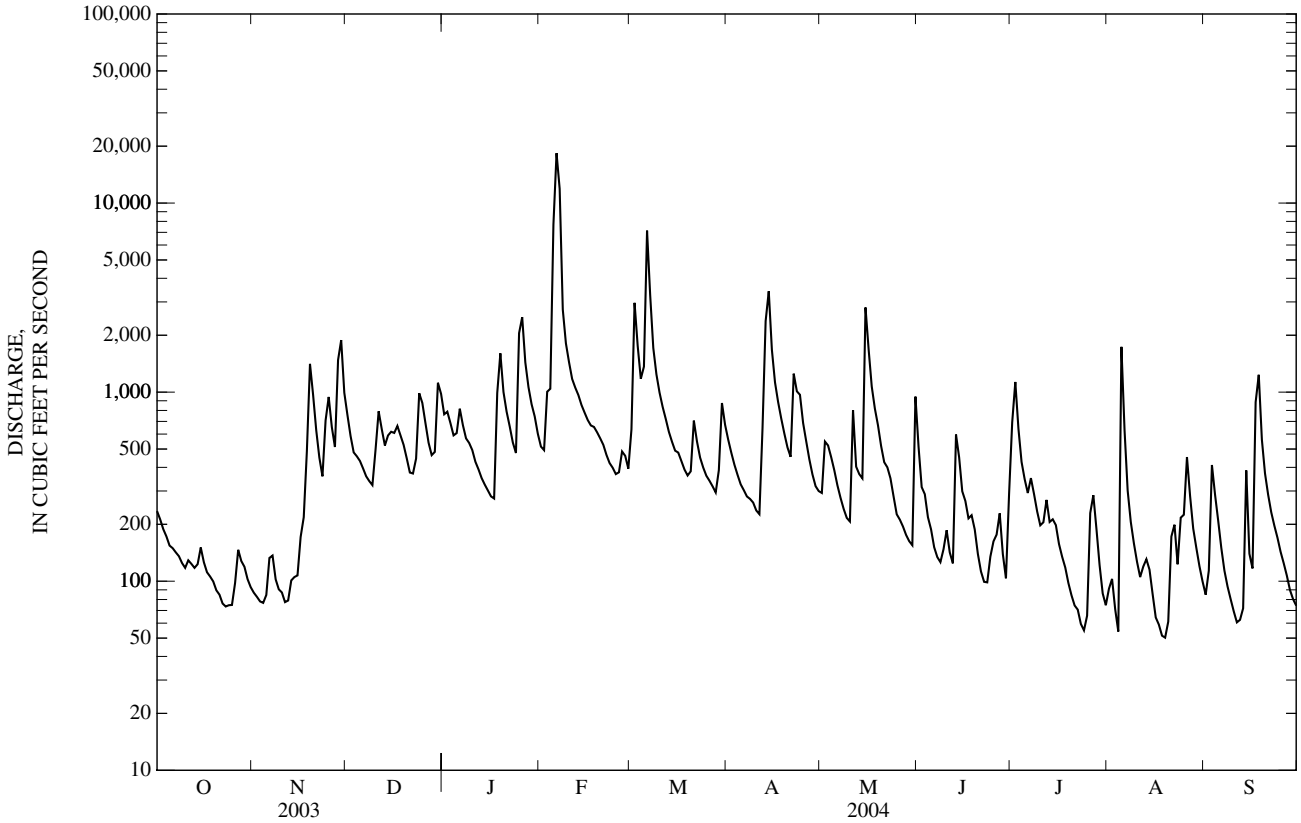
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	87	758	764	515	635	561	293	513	692	91	85
2	212	83	586	788	493	2,970	478	548	314	1,130	103	114
3	188	78	480	686	1,000	1,760	413	522	288	641	71	412
4	172	77	458	590	1,040	1,180	365	453	218	427	54	287
5	154	85	433	607	7,700	1,360	326	386	188	346	1,740	209
6	149	133	395	817	18,400	7,150	303	321	151	293	630	150
7	142	137	359	668	11,900	3,260	281	276	134	351	301	114
8	136	102	338	570	2,730	1,710	272	241	126	289	206	94
9	125	91	322	538	1,810	1,240	261	216	148	234	158	80
10	118	87	495	494	1,440	995	237	207	186	198	127	69
11	129	77	792	428	1,170	835	226	803	142	205	105	61
12	123	79	637	390	1,060	721	645	403	124	269	119	62
13	118	101	522	351	964	616	2,380	368	596	206	131	72
14	123	105	590	324	855	546	3,420	350	452	213	115	385
15	151	107	617	302	779	490	1,680	2,800	299	198	85	140
16	126	171	608	281	712	479	1,130	1,680	266	157	64	117
17	112	218	662	274	667	432	887	1,070	215	135	59	885
18	106	486	590	990	654	390	725	819	223	118	52	1,240
19	100	1,410	526	1,600	613	362	604	667	188	98	50	561
20	90	967	447	1,000	569	381	510	519	139	84	61	372
21	85	629	376	789	526	707	455	426	113	74	172	287
22	76	451	371	658	465	549	1,250	e400	99	71	199	232
23	73	359	445	541	422	451	1,010	e350	99	59	123	197
24	75	708	987	476	398	399	968	e280	135	55	217	170
25	75	943	877	2,050	368	361	687	226	162	66	225	143
26	98	653	686	2,490	377	340	549	212	176	229	454	124
27	147	513	540	1,440	485	317	441	195	228	285	282	107
28	128	1,480	464	1,060	460	295	367	176	139	189	e190	90
29	119	1,880	483	864	394	386	318	163	104	122	e150	80
30	103	992	1,120	744	---	876	300	155	289	86	e120	74
31	93	---	979	602	---	672	---	947	---	75	100	---
TOTAL	3,881	13,289	17,943	24,176	58,966	32,865	22,049	16,472	6,454	7,595	6,554	7,013
MEAN	125	443	579	780	2,033	1,060	735	531	215	245	211	234
MAX	235	1,880	1,120	2,490	18,400	7,150	3,420	2,800	596	1,130	1,740	1,240
MIN	73	77	322	274	368	295	226	155	99	55	50	61
CFSM	0.31	1.09	1.42	1.91	4.98	2.60	1.80	1.30	0.53	0.60	0.52	0.57
IN.	0.35	1.21	1.64	2.20	5.38	3.00	2.01	1.50	0.59	0.69	0.60	0.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2004, BY WATER YEAR (WY)

MEAN	117	370	834	1,151	1,314	1,328	867	587	287	144	114	125
MAX	953	1,678	3,952	4,305	3,606	4,263	2,579	3,232	1,834	827	663	1,685
(WY)	(1976)	(1987)	(1927)	(1937)	(1950)	(1975)	(1927)	(1984)	(1928)	(1989)	(1926)	(1979)
MIN	1.90	10.4	32.3	40.5	90.2	167	138	38.7	13.1	15.6	5.76	1.28
(WY)	(1932)	(1940)	(1940)	(1940)	(1941)	(1941)	(1967)	(1941)	(1988)	(1954)	(1954)	(1948)

03433500 HARPETH RIVER AT BELLEVUE, TN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1920 - 2004	
ANNUAL TOTAL	301,150		217,257			
ANNUAL MEAN	825		594		600	
HIGHEST ANNUAL MEAN					1,157	1973
LOWEST ANNUAL MEAN					137	1941
HIGHEST DAILY MEAN	17,600	Feb 16	18,400	Feb 6	32,400	Mar 13, 1975
LOWEST DAILY MEAN	39	Sep 21	50	Aug 19	0.00	Oct 5, 1922
ANNUAL SEVEN-DAY MINIMUM	44	Aug 27	69	Aug 14	0.07	Oct 4, 1922
MAXIMUM PEAK FLOW			20,100	Feb 6	40,000	Feb 13, 1948
MAXIMUM PEAK STAGE			20.04	Feb 6	a24.34	Feb 13, 1948
INSTANTANEOUS LOW FLOW			41	Jul 25	b0.00	Oct 5, 1922
ANNUAL RUNOFF (CFSM)	2.02		1.45		1.47	
ANNUAL RUNOFF (INCHES)	27.46		19.81		19.97	
10 PERCENT EXCEEDS	1,470		1,050		1,380	
50 PERCENT EXCEEDS	338		343		195	
90 PERCENT EXCEEDS	75		87		17	

a From floodmarks.
b Also occurred Oct. 6-10, 1922.
e Estimated