03432350 HARPETH RIVER AT FRANKLIN, TN

LOCATION.--Lat 35°55'14", long 86°51'55", Williamson County, Hydrologic Unit 05130204, on left bank 15 ft downstream from State Highway 96 bridge, 0.4 mi southeast of the courthouse in Franklin, and at mile 88.1.

DRAINAGE AREA.--191 mi^2, includes 15 mi^2 without surface drainage.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 604.42 ft above NGVD of 1929.

REMARKS.--No estimated daily discharge. Records good. The Franklin Utility District diverts part of its municipal water supply from the river above the gage. This water along with other water is returned to the river through the sewage treatment plant 2.7 mi below gage. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 28	1230	3,270	14.22	Mar 6	0830	5,080	19.30
Feb 6	0700	*12,900	*29.26	Apr 13	2230	3,010	13.44
Mar 2	0700	3,090	13.68				

Minimum daily discharge, 9.9 ft^3/s, July 24.

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	71	23	399	329	206	263	223	107	164	310	80	31
2	61	21	290	301	212	2,090	191	163	83	489	44	198
3	58	19	223	269	536	913	178	156	62	264	27	223
4	49	18	199	234	470	627	162	150	56	158	28	124
5	40	50	180	403	4,590	1,060	149	123	49	144	923	91
6	38	51	156	468	11,400	4,110	135	103	37	118	203	70
7	43	32	133	335	3,630	1,530	125	91	36	120	101	51
8	37	32	124	275	1,320	893	126	81	41	94	68	41
9	30	29	116	259	934	649	115	78	58	74	51	35
10	32	23	232	225	739	495	102	209	60	62	38	28
11	33	23	374	196	592	403	98	487	29	56	33	23
12	36	31	249	174	540	339	371	160	90	51	54	20
13	30	34	203	154	479	281	2,090	155	324	37	52	27
14	33	33	239	139	426	241	2,100	134	120	51	36	26
15	33	31	241	128	394	215	951	860	86	34	25	21
16	31	59	219	119	368	205	640	491	67	26	20	48
17	29	81	212	112	363	170	483	314	61	25	17	1,020
18	28	325	195	993	390	155	378	208	69	22	16	768
19	24	815	178	880	350	148	309	164	51	23	16	272
20	23	486	154	512	321	158	248	132	42	26	34	182
21	21	271	132	371	284	236	214	109	32	29	153	138
22	24	191	122	292	252	188	205	94	31	27	72	108
23	26	154	190	236	236	163	203	82	61	17	65	89
24	24	514	562	206	203	150	188	70	90	9.9	116	73
25	16	498	385	1,330	181	145	160	63	75	72	243	59
26	31	301	284	1,150	216	140	142	57	171	93	335	45
27	36	233	228	671	314	129	126	47	103	161	137	36
28	40	1,990	195	462	237	122	113	46	63	68	86	32
29	35	1,110	209	361	200	219	103	41	48	43	66	29
30	29	577	612	306	---	354	99	36	155	31	51	25
31	24	---	439	245	---	262	---	249	---	35	39	---
TOTAL	1,065	8,055	7,674	12,135	30,383	17,053	10,727	5,260	2,414	2,769.9	3,229	3,933
MEAN	34.4	268	248	391	1,048	550	358	170	80.5	89.4	104	131
MAX	71	1,990	612	1,330	11,400	4,110	2,100	860	324	489	923	1,020
MIN	16	18	116	112	181	122	98	36	29	9.9	16	20
CFSM	0.18	1.41	1.30	2.05	5.49	2.88	1.87	0.89	0.42	0.47	0.55	0.69
IN.	0.21	1.57	1.49	2.36	5.92	3.32	2.09	1.02	0.47	0.54	0.63	0.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY)

MEAN	91.9	259	463	519	592	647	354	325	132	61.6	40.9	76.6
MAX	610	778	1,172	1,472	1,575	1,945	1,066	1,489	574	431	208	971
(WY)	(1976)	(1980)	(1991)	(1979)	(2003)	(1975)	(1979)	(1984)	(1997)	(1989)	(1998)	(1979)
MIN	0.52	4.08	16.2	14.4	139	159	62.2	21.8	1.25	1.44	1.58	1.17
(WY)	(1981)	(1981)	(1981)	(1986)	(1978)	(1985)	(1986)	(1988)	(1988)	(1988)	(1988)	(1980)

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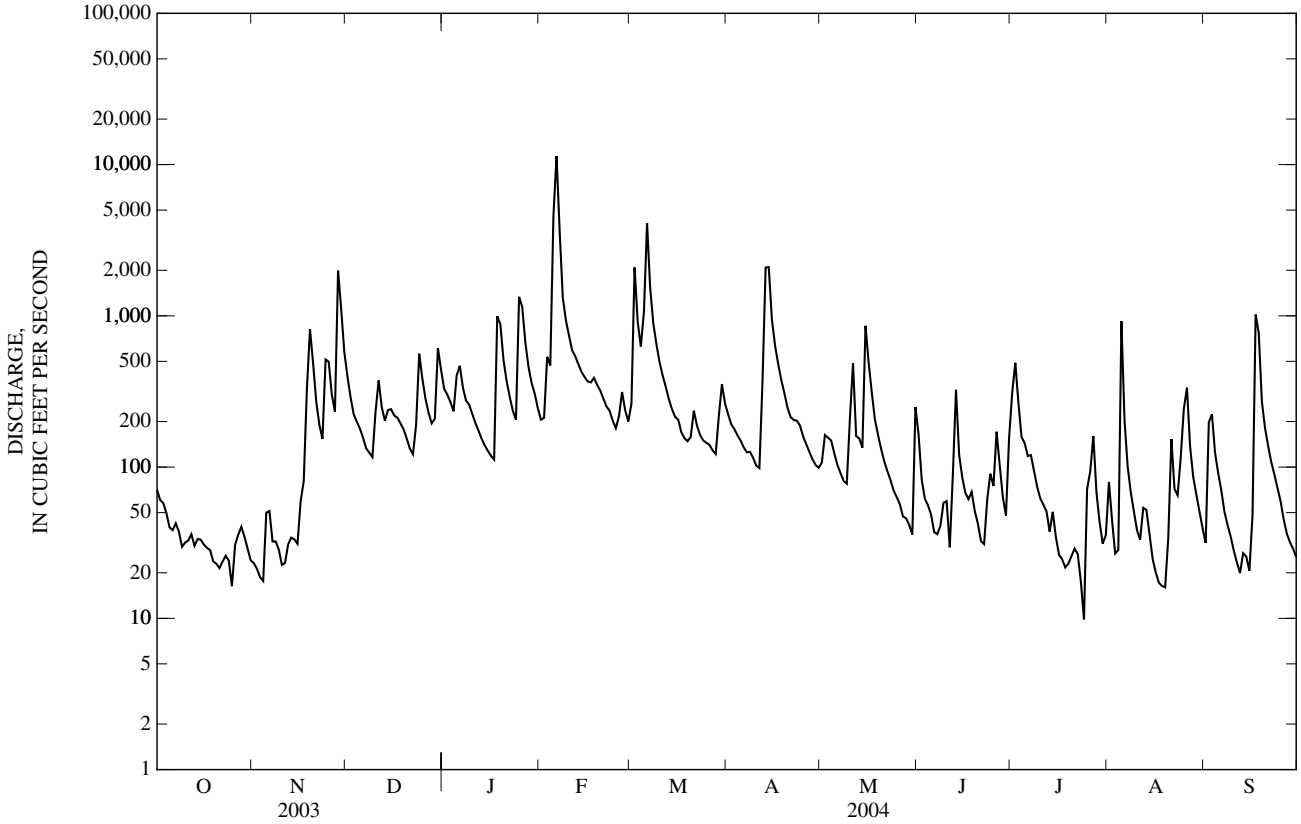
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1975 - 2004	
ANNUAL TOTAL	141,922.2		104,697.9			
ANNUAL MEAN	389		286		296	
HIGHEST ANNUAL MEAN					522	1979
LOWEST ANNUAL MEAN					68.7	1981
HIGHEST DAILY MEAN	9,280	Feb 16	11,400	Feb 6	18,500	Mar 13, 1975
LOWEST DAILY MEAN	5.2	Sep 20	9.9	Jul 24	0.30	Oct 14, 1980
ANNUAL SEVEN-DAY MINIMUM	5.7	Aug 24	22	Jul 18	0.32	Oct 20, 1980
MAXIMUM PEAK FLOW			12,900	Feb 6	20,200	Mar 13, 1975
MAXIMUM PEAK STAGE			29.26	Feb 6	33.65	Mar 13, 1975
INSTANTANEOUS LOW FLOW			9.2	Jul 24	0.30	Oct 14, 1980
ANNUAL RUNOFF (CFSM)	2.04		1.50		1.55	
ANNUAL RUNOFF (INCHES)	27.64		20.39		21.03	
10 PERCENT EXCEEDS	801		521		648	
50 PERCENT EXCEEDS	124		134		94	
90 PERCENT EXCEEDS	16		28		3.2