03432400 HARPETH RIVER BELOW FRANKLIN, TN

LOCATION.--Lat 35°56'53", long 86°52'54", Williamson County, Hydrologic Unit 05130204, on right bank 0.1 mi below bridge on U.S. Highway 431, 1.2 mi downstream from Spence Creek, 1.8 mi northwest of the courthouse in Franklin, and at mile 84.3.

DRAINAGE AREA.--210 mi^2, includes 15 mi^2 without surface drainage.

PERIOD OF RECORD.--August 1988 to September 1999, discharge for gage height of 6.00 ft and below only. October 1999 to current year.

GAGE.--Data collection platform.

REMARKS.--Records good. Flow is affected by Franklin sewage treatment plant outflow 1.1 mi upstream. Periodic observations of water temperature and specific conductance are published in the report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; maximum gage height, 28.97 ft, Feb. 4, 1990; minimum discharge, 3.0 ft^3/s, Aug. 19, 1988, Sept. 12, 18, 1999; minimum daily, 4.1 ft^3/s, Aug. 18, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 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	0915	*13,300	*28.11	Mar 6	0945	5,130	19.07

Minimum discharge, 24 ft^3/s, July 24, 25.
Minimum daily discharge, 30 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	100	40	463	392	259	335	271	115	218	422	88	65
2	87	37	341	367	271	1,890	230	215	112	538	66	220
3	79	36	267	324	579	928	199	179	91	309	51	287
4	72	34	240	281	534	673	176	162	82	206	63	162
5	63	58	213	441	4,600	1,010	159	134	75	178	1,140	120
6	63	68	186	536	12,100	4,190	146	112	64	151	286	98
7	62	47	154	394	4,440	1,540	135	100	61	159	150	81
8	60	44	142	322	1,340	934	136	90	77	115	106	73
9	49	43	132	304	981	716	127	83	76	94	87	67
10	57	34	274	266	808	577	113	186	111	84	75	61
11	58	34	437	228	669	478	109	604	62	87	72	57
12	56	47	298	201	615	407	416	188	151	77	94	53
13	54	53	243	176	542	343	1,900	194	424	65	86	72
14	69	44	291	155	477	296	2,020	163	176	87	73	68
15	59	43	291	145	433	259	951	955	117	67	62	58
16	53	80	272	133	404	254	668	608	96	56	56	119
17	50	85	259	127	393	222	513	401	94	54	51	958
18	50	422	236	929	413	203	408	276	93	50	50	820
19	42	836	214	922	373	189	330	218	78	47	49	304
20	41	556	184	581	345	247	265	170	69	45	91	193
21	37	326	156	428	313	333	225	140	62	48	190	142
22	36	226	141	341	275	266	254	119	58	46	109	112
23	40	173	239	280	255	219	263	104	76	39	94	94
24	40	560	615	241	229	194	219	93	101	30	150	78
25	32	566	456	1,250	204	177	176	84	93	66	200	69
26	63	353	343	1,160	241	167	153	80	172	90	419	60
27	55	272	276	725	331	153	133	71	115	178	176	54
28	58	1,750	233	531	270	139	118	69	77	84	115	49
29	51	1,130	273	419	225	282	108	67	77	64	93	47
30	48	641	656	365	---	424	108	63	223	55	82	45
31	43	---	516	303	---	324	---	384	---	65	72	---
TOTAL	1,727	8,638	9,041	13,267	32,919	18,369	11,029	6,427	3,381	3,656	4,496	4,686
MEAN	55.7	288	292	428	1,135	593	368	207	113	118	145	156
MAX	100	1,750	656	1,250	12,100	4,190	2,020	955	424	538	1,140	958
MIN	32	34	132	127	204	139	108	63	58	30	49	45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

MEAN	58.0	185	448	420	996	591	311	392	121	45.9	40.7	68.2
MAX	231	487	757	923	1,764	1,017	748	1,248	591	118	145	369
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2002)	(2000)	(2003)	(2003)	(2004)	(2004)	(2003)
MIN	7.68	16.7	115	173	306	382	110	66.8	32.0	17.8	8.22	10.0
(WY)	(1994)	(1999)	(2000)	(2000)	(2002)	(2003)	(1999)	(2001)	(2002)	(2000)	(1988)	(1993)

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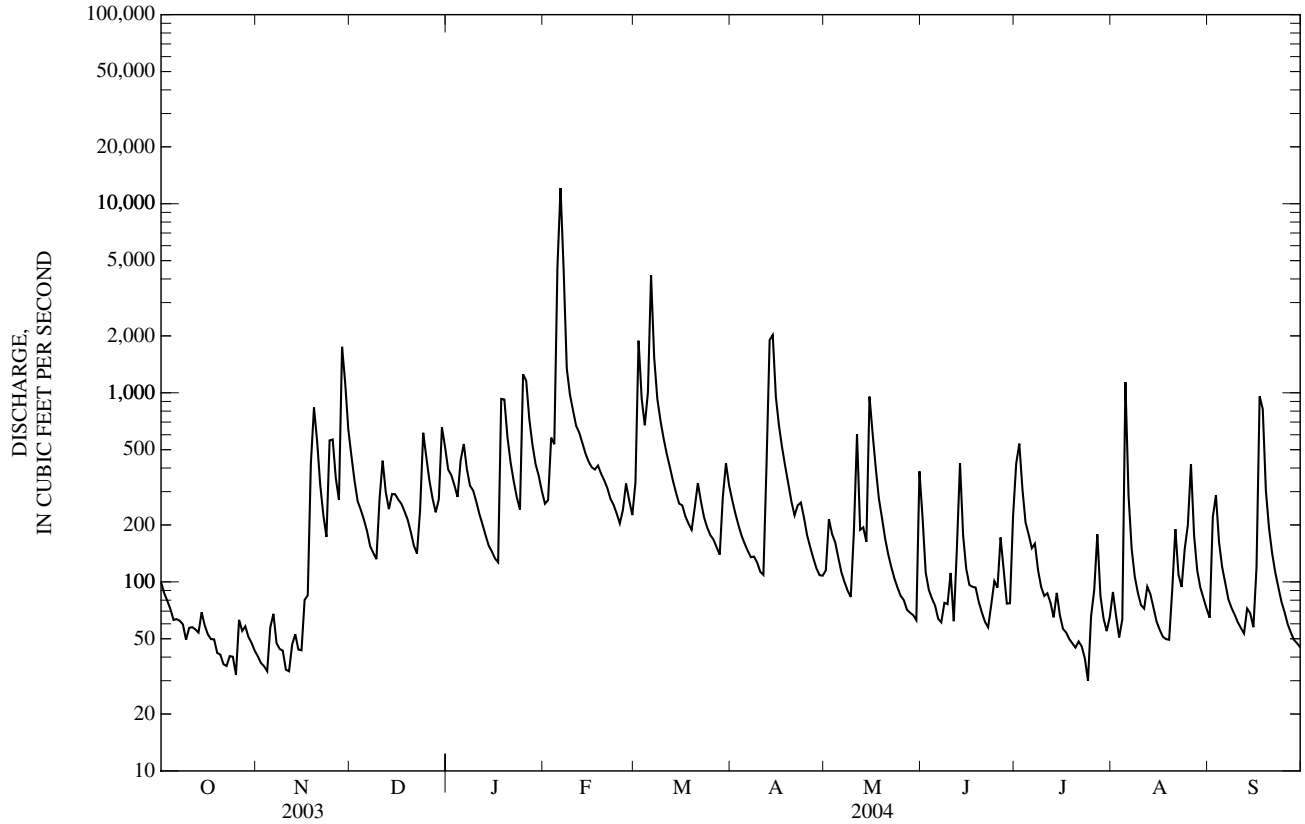
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1988 - 2004	
ANNUAL TOTAL	164,462		117,636			
ANNUAL MEAN	451		321		334	
HIGHEST ANNUAL MEAN					521	2003
LOWEST ANNUAL MEAN					207	2000
HIGHEST DAILY MEAN	9,930	Feb 16	12,100	Feb 6	12,100	Feb 6, 2004
LOWEST DAILY MEAN	18	Aug 26	30	Jul 24	4.1	Aug 18, 1988
ANNUAL SEVEN-DAY MINIMUM	19	Aug 26	38	Oct 19	4.4	Aug 12, 1988
MAXIMUM PEAK FLOW			13,300	Feb 6		
MAXIMUM PEAK STAGE			28.11	Feb 6	28.97	Feb 4, 1990
INSTANTANEOUS LOW FLOW			a24	Jul 24	3.0	Aug 19, 1988
10 PERCENT EXCEEDS	884		605		675	
50 PERCENT EXCEEDS	159		158		113	
90 PERCENT EXCEEDS	32		51		15	

a Also occurred July 25.