07025400 NORTH FORK OBION RIVER NEAR MARTIN, TN

LOCATION.--Lat 36°24'18", long 88°51'16", Weakley County, Hydrologic Unit 08010203, on right bank on U.S. Highway 45E, 4.0 miles north of Martin.

DRAINAGE AREA.--372 mi^2.

PERIOD OF RECORD.--October 2001 to current year. Annual maximum at unknown datum, 1939 to 1967. Periodic measurements of discharge and miscellaneous water-quality data, 1979 to 1987. Annual maximum at present datum, 1997 to 2001.

GAGE.--Data collection platform, operated in cooperation with the Memphis District Corps of Engineers. Datum of gage is 303.46 ft above NGVD of 1929, determined by the Memphis District Corps of Engineers.

REMARKS.--Records good except for estimated daily discharges, which are poor. Periodic observation of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

COOPERATION.--Gage operated jointly with the Memphis District U.S. Army Corps of Engineers.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge for years 1939-2001, 30,300 ft^3/s, Nov. 19, 1957, stage 23.05; minimum discharge, 40 ft^3/s, Feb. 7, 1946 from reports by Memphis District U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 2	unknown	*7,430	*18.91	Mar 28	0700	7,300	18.76

Minimum discharge, 142 ft^3/s, Oct. 7.

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	145	2,470	2,730	1,370	273	327	501	1,880	199	167	171	1,090
2	147	e6,260	812	3,010	294	296	496	609	311	163	170	344
3	148	e4,870	527	1,680	458	289	407	444	305	162	170	245
4	147	1,070	431	1,440	348	290	363	373	246	160	168	220
5	144	482	426	1,210	298	284	340	334	218	166	166	212
6	144	345	2,900	3,730	282	274	422	305	204	163	167	210
7	143	296	4,170	2,330	291	312	1,410	288	197	161	211	204
8	144	267	2,000	3,280	404	723	1,000	276	196	159	375	200
9	144	251	746	1,070	350	429	535	269	252	157	193	196
10	146	242	592	647	304	339	421	273	215	155	181	190
11	162	255	486	538	268	313	585	260	210	188	174	189
12	327	441	424	486	261	297	1,850	256	2,020	313	168	188
13	212	314	387	1,700	1,040	287	657	244	1,930	355	165	187
14	177	262	344	1,290	1,090	270	530	314	470	262	165	187
15	174	246	321	543	530	261	408	341	279	420	174	194
16	167	236	315	417	380	261	337	252	233	566	169	264
17	160	234	304	341	302	267	306	235	214	1,260	224	231
18	420	232	294	311	266	260	291	227	203	516	357	204
19	3,400	328	273	313	251	256	274	223	191	279	242	197
20	762	328	238	324	265	253	262	234	187	242	186	194
21	316	273	249	318	1,890	252	263	253	182	237	174	194
22	244	253	1,600	299	1,400	297	2,280	220	178	207	175	190
23	359	515	1,120	266	624	1,070	937	219	174	198	178	189
24	733	1,920	541	257	450	526	432	211	172	194	172	187
25	384	861	373	269	368	365	330	202	170	187	168	245
26	278	416	320	275	334	316	322	199	201	184	167	303
27	1,580	498	289	260	321	2,510	346	201	221	180	247	211
28	767	1,020	279	246	330	6,960	309	197	178	177	281	190
29	461	477	1,030	289	---	5,020	895	193	173	175	1,040	192
30	338	3,100	3,000	352	---	1,120	4,900	193	170	172	3,430	183
31	286	---	2,970	296	---	646	---	193	---	171	3,070	---
TOTAL	13,159	28,762	30,491	29,157	13,672	25,370	22,409	9,918	10,099	8,096	13,098	7,230
MEAN	424	959	984	941	488	818	747	320	337	261	423	241
MAX	3,400	6,260	4,170	3,730	1,890	6,960	4,900	1,880	2,020	1,260	3,430	1,090
MIN	143	232	238	246	251	252	262	193	170	155	165	183
CFSM	1.14	2.58	2.64	2.53	1.31	2.20	2.01	0.86	0.90	0.70	1.14	0.65
IN.	1.32	2.88	3.05	2.92	1.37	2.54	2.24	0.99	1.01	0.81	1.31	0.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	416	740	1,378	713	916	764	675	965	378	238	279	376
MAX	679	1,106	2,832	954	1,885	1,320	747	1,597	496	294	423	788
(WY)	(2003)	(2002)	(2002)	(2002)	(2003)	(2002)	(2005)	(2003)	(2003)	(2003)	(2005)	(2002)
MIN	243	332	398	470	488	445	571	320	337	186	195	154
(WY)	(2004)	(2003)	(2004)	(2003)	(2005)	(2004)	(2003)	(2005)	(2005)	(2002)	(2004)	(2004)

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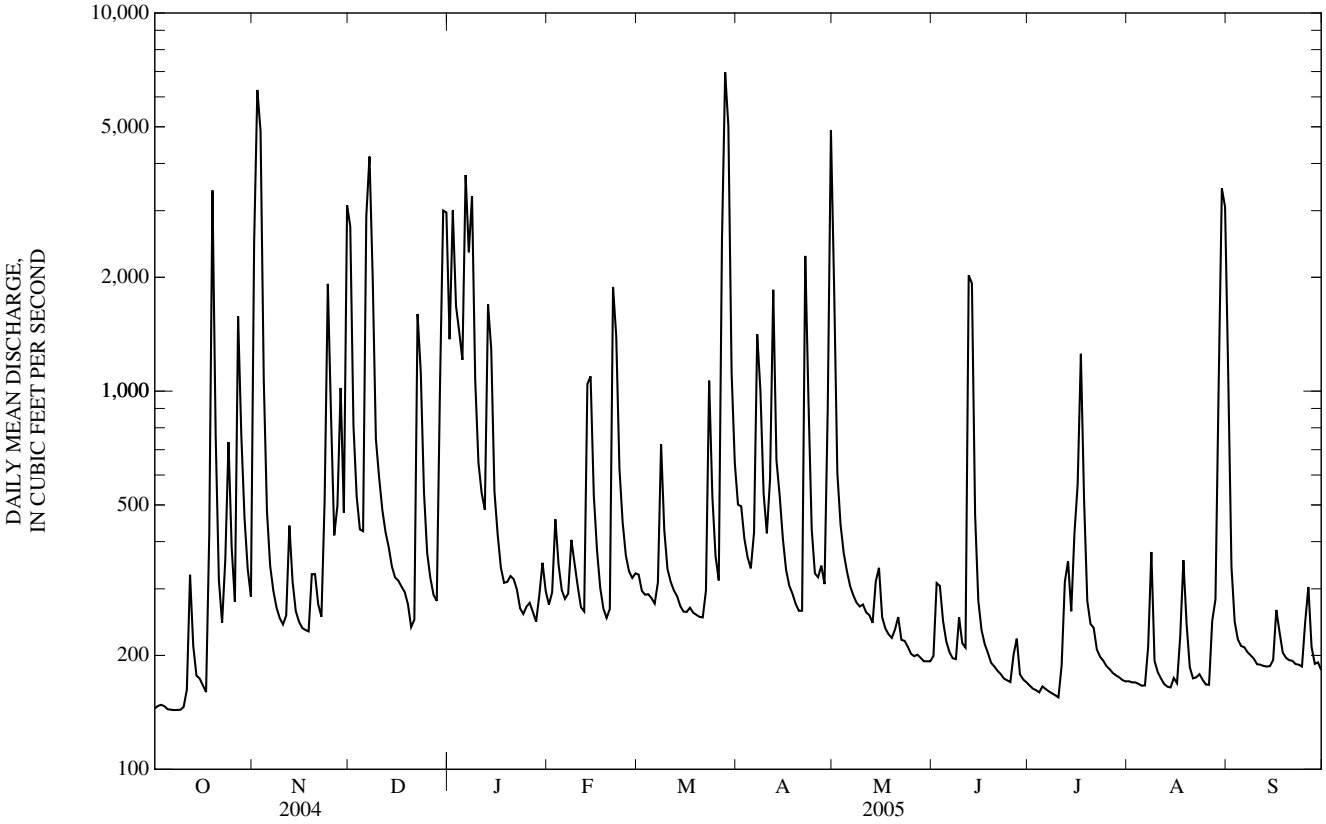
SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	179,734		211,461			
ANNUAL MEAN	491		579		653	
HIGHEST ANNUAL MEAN					918	2002
LOWEST ANNUAL MEAN					394	2004
HIGHEST DAILY MEAN	6,260	Nov 2	6,960	Mar 28	12,300	Dec 1, 2001
LOWEST DAILY MEAN	143	Sep 29	143	Oct 7	143	Sep 29, 2004
ANNUAL SEVEN-DAY MINIMUM	145	Oct 4	145	Oct 4	145	Oct 4, 2004
ANNUAL RUNOFF (CFSM)	1.32		1.56		1.75	
ANNUAL RUNOFF (INCHES)	17.97		21.15		23.83	
10 PERCENT EXCEEDS	910		1,320		1,410	
50 PERCENT EXCEEDS	271		282		277	
90 PERCENT EXCEEDS	160		171		168	

e Estimated