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LOW - FLOW FREQUENCY
AND FLOW DURATION
OF TENNESSEE STREAMS

U. S. Geological Survey



OPEN-FILE REPORT 78-807

Prepared in cooperation with the
Tennessee Department of Conservation
Division of Water Resources

03604500 - BUFFALO RIVER NEAR LOBELVILLE, TN

LOCATION.--Lat 35°48'46", long 87°47'51", Perry County, on right bank 30 ft upstream from Standing Rock Bridge, 1.4 miles downstream from bridge on State Highway 13, 3 miles north of Lobelville, 13 miles downstream from Cane Creek, and at mile 17.7.

DRAINAGE AREA.--707 mi².

PERIOD OF RECORD.-- October 1927 to September 1975.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
170	180	183	204	234	270
80	70	60	50	40	30
324	380	457	576	760	1050
20	10	5	2	1	0.5
1490	2430	3720	6500	9300	12300

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	227	185	168	155	142
3	229	187	169	156	143
7	235	191	172	158	144
14	246	200	180	165	151
30	270	218	194	177	159
60	298	240	215	198	180
120	344	281	258	244	230
183	401	318	289	271	254

03604800 - BIRDSONG CREEK NEAR HOLLADAY, TN

LOCATION.--Lat 35°53'56", long 88°07'37", Benton County, on left bank half a mile downstream from Wolf Creek and 2 miles northeast of Hollyday.

DRAINAGE AREA.--44.9 mi²

PERIOD OF RECORD.--February 1940 to September 1967.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
0.0	0.0	0.0	0.05	0.6	1.27
80	70	60	50	40	30
3.13	5.35	8.34	14.2	24.2	39.3
20	10	5	2	1	0.5
60.6	108	234	600	960	1480

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	0.46	0.01	0.0	0.0	
3	0.48	0.01	0.0	0.0	
7	0.58	0.01	0.0	0.0	
14	0.63	0.04	0.0	0.0	
30	1.25	0.29	0.12	0.05	
60	2.30	0.88	0.52	0.33	
120	4.36	2.04	1.44	1.11	
183	7.98	3.80	2.67	2.03	

03605555 - TRACE CREEK ABOVE DENVER, TN

LOCATION.-- Lat 36°03'08", long 87°54'27", Humphreys County, on left bank at bridge on U. S. Highway 70, 1.0 mile east of Denver, 3.9 miles northeast of New Johnsonville, and at mile 4.2.

DRAINAGE AREA.-- 31.9 mi².

PERIOD OF RECORD.-- October 1963 to November 1972, December 1972 to September 1975.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
8.22	8.69	8.81	9.85	11.5	13.0
80	70	60	50	40	30
15.5	18.4	22.4	30.4	43.3	59.2
20	10	5	2	1	0.5
86.3	151	247	498	940	1290

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	9.74	8.08	7.31	6.73	
3	10.0	8.34	7.55	6.94	
7	10.3	8.70	8.02	7.53	
14	10.8	9.03	8.28	7.74	
30	12.4	10.6	9.76	9.13	
60	14.3	11.6	10.4	9.53	
120	18.6	13.6	11.7	10.3	
183	22.5	16.8	14.8	13.5	

03606500 - BIG SANDY RIVER AT BRUCETON, TN

LOCATION.-- Lat 36°02'19", long 88°13'42", Carroll County, on right bank on downstream end of abutment of county bridge, 700 ft downstream from bridge on U.S. Highway 70, 0.6 mile upstream from Cherry Creek, 0.9 mile east of Bruceton, and at mile 31.6.

DRAINAGE AREA.-- 205 mi².

PERIOD OF RECORD.-- August 1929 to September 1975.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
32.9	35.0	35.3	38.9	43.9	51.0
80	70	60	50	40	30
63.5	77.6	94.5	117	147	195
20	10	5	2	1	0.5
294	647	1190	1900	2690	3400

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	44.6	36.6	33.9	32.2	30.8
3	45.4	37.3	34.6	32.9	31.4
7	46.4	38.2	35.5	33.8	32.4
14	48.2	39.2	36.3	34.5	33.1
30	52.8	42.0	38.4	36.2	34.3
60	63.8	47.6	42.0	38.3	35.0
120	86.7	60.0	51.2	45.7	40.8
183	109	73.9	61.9	54.0	46.9

03607000 - BIG SANDY RIVER AT BIG SANDY, TN

LOCATION.--Lat 36°13'50", long 88°06'16", Benton County, on left bank of former drainage canal, 700 ft upstream from bridges of relocated State Highway 69 and Louisville & Nashville Railroad, and 1 mile west of Big Sandy.

DRAINAGE AREA.-- 379 mi².

PERIOD OF RECORD.--March 1935 to September 1944.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
38.5	40.7	41.3	43.9	48.2	56.3
80	70	60	50	40	30
73.1	91.2	116	143	180	247
20	10	5	2	1	0.5
375	877	1680	2500	3400	5300

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	66	51	45	43	
3	67	53	47	44	
7	69	55	49	45	
14					
30					
60					
120					
183					

07024300 - BEAVER CREEK AT HUNTINGDON, TN

LOCATION.-- Lat 35°59'56", long 88°26'01", Carroll County, on left bank on downstream end of pier of bridge on U.S. Highway 70, 0.3 mile west of Huntingdon, 0.6 mile downstream from Brier Creek, and at mile 5.6.

DRAINAGE AREA.--55.5 mi².

PERIOD OF RECORD.--October 1962 to September 1975.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
21.0	21.7	22.0	23.1	24.0	25.5
80	70	60	50	40	30
28.7	32.3	37.0	42.9	52.6	66.4
20	10	5	2	1	0.5
91.9	207	396	920	1300	2000

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	22.9	21.3	20.5	18.9	
3	23.1	21.3	20.6	20.2	
7	23.8	21.9	21.2	20.8	
14	25.2	22.6	21.6	21.0	
30	26.2	23.5	22.7	22.3	
60	30.3	25.3	23.4	22.1	
120	42.4	29.5	25.1	22.3	
183	49.3	32.9	27.2	23.5	

07024500 - SOUTH FORK OBION RIVER NEAR GREENFIELD, TN

LOCATION.--Lat 36°07'05", long 88°48'39", Weakley County, on left bank 75 ft downstream from bridge on U.S. Highway 45E, 1.1 miles downstream from Mosley Branch, 2.5 miles south of Greenfield, and 9.7 miles upstream from confluence with Middle Fork.

DRAINAGE AREA.-- 383 mi².

PERIOD OF RECORD.-- August 1925 to September 1975.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
75.2	78.2	78.9	87.0	93.1	102
80	70	60	50	40	30
118	138	164	205	278	413
20	10	5	2	1	0.5
711	1450	2280	3690	5000	6710

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	92.9	80.8	76.3	73.3	70.6
3	93.8	81.5	77.0	74.0	71.4
7	96.2	83.6	79.1	76.1	73.5
14	99.0	85.7	81.3	78.6	76.3
30	107	91.2	86.3	83.4	81.0
60	122	97.9	90.3	85.7	81.9
120	152	112	100	92.4	86.0
183	192	133	113	100	89.1

07025000 - RUTHERFORD FORK OBION RIVER NEAR BRADFORD, TN

LOCATION.-- Lat 36°03'10", long 88°52'42", Gibson County on left bank
10 ft downstream from bridge on State Highway 54, 2.0 miles upstream
from Camp Creek, and 4.0 miles southwest of Bradford, and at mile 17.5.

DRAINAGE AREA.--203 mi².

PERIOD OF RECORD.--August 1929 to September 1957.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED
FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
14.4	15.6	15.9	18.1	20.3	23.3
80	70	60	50	40	30
28.0	33.6	42.3	55.1	75.8	113
20	10	5	2	1	0.5
195	527	1200	2460	3360	4230

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED
RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	19.7	15.8	14.2	13.1	12.0
3	20.0	16.1	14.6	13.5	12.5
7	20.7	17.0	15.7	14.8	14.1
14	22.0	17.9	16.4	15.5	14.6
30	24.1	18.9	17.1	15.9	14.8
60	30.8	22.8	20.2	18.7	17.4
120	45.0	30.5	26.0	23.4	21.1
183	60.7	38.7	31.6	27.1	23.2

07025500 - NORTH FORK OBION RIVER NEAR UNION CITY, TN

LOCATION.-- Lat 36°23'59", long 88°59'43", Obion County, on downstream side of right pier of bridge on State Highway 22, 0.3 mile downstream from Harris Fork Creek, 0.8 mile southeast of Gibbs, 3.9 miles south-east of Union City, 4.5 miles upstream from Hoosier Creek, and 10 miles upstream from confluence with South Fork.

DRAINAGE AREA.-- 480 mi².

PERIOD OF RECORD.-- August 1929 to December 1970.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
86.1	87.9	88.3	92.8	102	109
80	70	60	50	40	30
125	140	159	185	228	310
20	10	5	2	1	0.5
514	1410	2850	5150	6900	8900

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	103	92.1	88.0	85.0	82.2
3	103	92.7	88.6	85.8	83.3
7	104	93.9	90.0	87.4	85.0
14	108	96.2	92.0	89.2	86.7
30	113	99.8	94.8	91.6	88.6
60	126	106	100	97.1	94.5
120	148	123	118	115	114
183	186	141	128	120	114

07026000 - OBION RIVER AT OBION, TN

LOCATION.-- Lat 36°15'04", long 89°11'33", Obion County, near left bank on downstream end of pier of bridge on U.S. Highway 51, 0.5 mile upstream from Richland Creek, 0.6 mile south of Obion, and 14.5 miles downstream from North Fork.

DRAINAGE AREA.-- 1,852 mi².

PERIOD OF RECORD.-- August 1929 to September 1958 , October 1966 to September 1975.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
235	256	262	286	315	366
80	70	60	50	40	30
452	559	704	936	1430	2180
20	10	5	2	1	0.5
3240	6700	11300	17700	22800	30100

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	325	272	248	227	
3	336	281	258	241	
7	343	286	263	246	
14	364	297	270	250	
30	396	310	277	255	
60	464	345	304	278	
120	601	421	366	333	
183	785	505	414	357	

07026500 - REELFOOT CREEK NEAR SAMBURG, TN

LOCATION.-- Lat 36°26'32", long 89°17'47", Obion County, on right bank at downstream side of bridge on State Highway 22, 0.5 mile downstream from confluence of North Reelfoot and South Reelfoot Creeks, 5 miles northeast of Samburg, 14 miles west of Union City, and at mile 4.0.

DRAINAGE AREA.-- 110 mi².

PERIOD OF RECORD.-- January 1951 to September 1972.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
0.0	0.0	0.0	0.0	0.02	0.43
80	70	60	50	40	30
1.05	2.12	4.14	8.89	19.2	36.8
20	10	5	2	1	0.5
71.7	236	626	1420	2120	2800

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	0.07	0.01	0.0	0.0	
3	0.11	0.03	0.01	0.0	
7	0.17	0.04	0.02	0.01	
14	0.20	0.07	0.04	0.02	
30	0.65	0.14	0.04	0.02	
60	2.77	0.57	0.06	0.03	
120	12.2	3.31	1.44	0.67	
183	23.0	9.25	5.70	3.80	

07027500 - SOUTH FORK FORKED DEER RIVER AT JACKSON, TN

LOCATION.-- Lat 35°35'38", long 88°48'52", Madison County, on right bank 20 ft downstream from bridge on U.S. Highway 45, 0.6 mile downstream from Meridan Creek, and 1.4 miles south of the post office in Jackson.

DRAINAGE AREA.-- 495 mi².

PERIOD OF RECORD.-- July 1929 to September 1973.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
77.5	84.0	84.4	88.6	101	115
80	70	60	50	40	30
141	172	210	267	358	506
20	10	5	2	1	0.5
800	1780	3090	4600	5820	7640

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	96.9	82.8	76.8	72.3	67.8
3	98.7	84.2	77.8	73.2	68.4
7	102	87.0	81.0	76.6	72.3
14	107	90.1	83.6	79.0	74.6
30	120	98.0	89.2	83.0	77.0
60	154	117	102	91.1	80.8
120	200	146	125	110	96.6
183	236	168	143	126	111

07028000 - SOUTH FORK FORKED DEER RIVER AT CHESTNUT BLUFF, TN

LOCATION.-- Lat 35°51'43", long 89°20'52", Crockett County, on left bank 20 ft downstream from county highway bridge, 0.8 mile west of Chestnut Bluff, 1.1 miles upstream from Halls Creek, 1.2 miles downstream from Black Creek, 2.9 miles east of Halls, 3.1 miles downstream from bridge on State Highway 88, and 16 miles upstream from confluence with North Fork.

DRAINAGE AREA.-- 1003 mi² (approximately), includes that of Halls Creek.

PERIOD OF RECORD.-- July 1929 to September 1957.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
120	129	130	143	163	191
80	70	60	50	40	30
242	294	366	484	696	1170
20	10	5	2	1	0.5
2100	3900	5610	7950	10600	13000

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	164	131	118	108	98.7
3	165	133	121	112	103
7	169	137	125	116	108
14	175	143	131	122	114
30	195	155	140	130	121
60	247	182	158	143	128
120	339	240	204	179	157
183	398	280	239	213	189

07028500 - NORTH FORK FORKED DEER RIVER AT TRENTON, TN

LOCATION.-- Lat 35°58'49", long 88°55'35", Gibson County, on downstream side of bank pier of bridge on State Highways 77 and 104, 0.8 mile east of Trenton, 1.0 mile downstream from Thompson Levee Creek, 1.6 miles upstream from Cain Creek, and 16.5 miles upstream from Middle Fork.

DRAINAGE AREA.-- 73.4 mi².

PERIOD OF RECORD.-- January 1951 to September 1971

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
6.87	7.54	7.72	8.80	10.4	12.3
80	70	60	50	40	30
13.9	15.8	17.8	20.8	25.7	36.5
20	10	5	2	1	0.5
64.4	183	459	1030	1570	1990

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	11.0	8.42	7.12	6.11	
3	11.1	8.54	7.25	6.25	
7	11.1	8.70	7.46	6.49	
14	11.3	8.96	7.80	6.89	
30	11.7	9.39	8.30	7.45	
60	13.7	11.3	10.7	10.3	
120	19.9	14.2	12.4	11.4	
183	27.4	18.3	15.3	13.4	

07029000 - MIDDLE FORK FORKED DEER RIVER NEAR ALAMO, TN

LOCATION.-- Lat 35°51'100", long 89°04'00", Crockett County, on right bank 30 ft downstream from bridge on State Highway 54, 3 miles upstream from Buck Creek, 5 miles north of Alamo, and 13 miles upstream from mouth.

DRAINAGE AREA.-- 369 mi².

PERIOD OF RECORD.-- August 1929 to September 1973.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
73.6	78.5	79.7	82.5	87.9	97.00
80	70	60	50	40	30
110	125	142	168	208	280
20	10	5	2	1	0.5
460	1170	2380	4490	5750	7000

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	89.3	79.2	75.2	72.5	69.8
3	90.2	79.9	75.7	72.8	69.9
7	91.7	81.3	77.0	74.0	71.2
14	94.3	83.1	78.7	75.6	72.6
30	99.6	86.7	82.2	79.4	76.9
60	115	94.6	87.5	82.8	78.7
120	146	113	102	95.1	89.2
183	172	126	111	102	94.3

07029100 - NORTH FORK FORKED DEER RIVER AT DYERSBURG, TN

LOCATION.-- Lat 36°01'49", long 89°23'13", Dyer County, attached to platform handrail of electric powerplant gatehouse, near downstream side of bridge on U. S. Highway 51 at Dyersburg, and at mile 6.4.

DRAINAGE AREA.-- 867 mi².

PERIOD OF RECORD.-- January 1948 to December 1969.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
98.6	101	102	109	125	144
80	70	60	50	40	30
184	245	330	482	764	1180
20	10	5	2	1	0.5
1910	3510	5160	7770	10200	12500

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	117	92.0	80.5	71.8	
3	118	94.4	84.5	77.2	
7	122	100	91.2	84.9	
14	130	106	96.8	90.6	
30	146	116	106	99.1	
60	193	142	124	112	
120	251	170	147	134	
183	344	214	175	152	

07029380 - CYPRESS CREEK NEAR RAMER, TN

LOCATION.-- Lat 35°03'58", long 88°39'18", McNairy County, at bridge on State Highway 57, 0.6 mile upstream from Muddy Creek and 2 miles west of Ramer.

DRAINAGE AREA.-- 94.8 mi².

PERIOD OF RECORD.-- October 1940 to December 1958, January 1964 to December 1969.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
6.10	7.66	7.79	9.45	13.0	16.9
80	70	60	50	40	30
25.2	33.9	45.0	61.1	83.8	126
20	10	5	2	1	0.5
184	314	620	1240	1600	2010

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	17.2	8.86	6.57	5.25	
3	17.7	9.26	6.91	5.55	
7	18.4	9.55	7.15	5.77	
14	19.9	10.7	8.13	6.67	
30	22.9	12.1	9.14	7.40	
60	27.8	15.1	11.4	9.20	
120	37.2	19.2	13.9	10.7	
183	45.7	24.0	17.5	13.6	

07029400 - HATCHIE RIVER AT POCAHONTAS, TN

LOCATION.-- Lat 35°03'24", long 88°48'05", Hardeman County, at bridge on State Highway 57, 0.5 mile northeast of Pocahontas, 1.7 miles downstream from Tusculum River, and at mile 176.

DRAINAGE AREA.-- 837 mi².

PERIOD OF RECORD.-- November 1940 to December 1958, January 1964 to December 1969.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
56.8	59.3	60.0	66.8	88.4	115
80	70	60	50	40	30
165	226	320	473	714	1240
20	10	5	2	1	0.5
2130	3440	5530	8430	11100	15000

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	82.2	59.8	49.9	42.5	
3	84.1	61.5	51.6	44.4	
7	87.4	65.4	56.1	49.3	
14	95.0	70.5	60.6	53.5	
30	121	88.9	76.0	66.8	
60	173	119	97.6	83.1	
120	244	163	133	112	
183	320	216	179	154	

07029500 - HATCHIE RIVER AT BOLIVAR, TN

LOCATION.--Lat 35°16'40", long 88°58'30", Hardeman County, on upstream end of left bank pier of bridge on State Highway 18, 250 ft upstream from Illinois Central Railroad bridge, 2,000 ft downstream from Spring Creek, and 1.5 miles northeast of Bolivar.

DRAINAGE AREA.-- 1,480 mi².

PERIOD OF RECORD.-- August 1929 to September 1975.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
126	140	141	155	192	242
80	70	60	50	40	30
349	490	690	1000	1530	2450
20	10	5	2	1	0.5
3790	6010	8410	12200	15700	20000

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	175	134	119	109	98.9
3	177	136	121	110	100
7	185	141	124	113	103
14	200	151	134	124	114
30	246	181	158	143	129
60	324	224	188	163	141
120	452	315	269	239	213
183	597	410	345	303	265

07030000 - HATCHIE RIVER NEAR STANTON, TN

LOCATION.-- Lat 35°31'22", long 89°20'57", Haywood County, near right bank on downstream end of pier of bridge on U. S. Highways 70 and 79, 2.9 miles downstream from Louisville and Nashville Railroad bridge, 4.6 miles northeast of Stanton, and 7 miles upstream from Big Muddy Creek.

DRAINAGE AREA.-- 1,940 mi² (approximately).

PERIOD OF RECORD.-- August 1929 to September 1958.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
262	272	277	300	342	410
80	70	60	50	40	30
558	745	1010	1450	2130	3080
20	10	5	2	1	0.5
4390	7410	10200	14600	19000	24600

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	339	278	254	237	221
3	341	279	255	238	222
7	348	284	258	241	224
14	364	294	268	250	233
30	413	323	288	264	242
60	485	362	318	289	262
120	639	468	414	381	354
183	834	592	511	459	414

LOCATION.-- Lat 35°18'37", long 89°38'23", Shelby County on left bank
20 ft downstream from bridge on U.S. Highways 70 and 79, 1.5 miles
upstream from Beaver Creek, 1.5 miles northeast of Arlington, and at
mile 30.4

DRAINAGE AREA.-- 262 mi².

PERIOD OF RECORD.-- October 1969 to September 1975.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED
FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
66.7	67.2	67.4	68.7	73.0	78.5
80	70	60	50	40	30
84.9	91.9	101	110	135	173
20	10	5	2	1	0.5
257	740	1860	3590	4800	7380

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED
RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	70	66	68	*	
3	72	71	70	*	
7	74	73	72	*	
14					
30					
60					
120					
183					

* Figures cannot be determined from available data.

07030280 - LOOSAHATCHIE RIVER AT BRUNSWICK, TN

LOCATION.-- Lat 35°16'53", long 89°45'56", Shelby County, on upstream side of new highway bridge 1 mile north of Brunswick and at mile 26.8.

DRAINAGE AREA.-- 505 mi².

PERIOD OF RECORD.-- February 1939 to June 1950, August 1950 to September 1969.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
52.0	56.7	57.4	64.8	73.5	84.0
80	70	60	50	40	30
95.6	106	117	135	164	227
20	10	5	2	1	0.5
400	1440	4210	7500	9500	12000

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	76.7	63.0	55.7	49.7	
3	78.7	64.0	56.2	49.8	
7	81.3	65.8	57.3	50.4	
14	85.2	69.1	60.6	53.7	
30	90.2	74.0	66.2	60.1	
60	101	85.1	80.0	76.8	
120	130	103	94.2	88.1	
183	177	124	105	93.1	

07030500 - WOLF RIVER AT ROSSVILLE, TN

LOCATION.-- Lat 35°03'15", long 89°32'30", Fayette County, on left bank 100 ft downstream from new county highway bridge, 0.4 mile upstream from Hurricane Creek, 0.5 mile north of Rossville, 3.5 miles downstream from Grissum Creek, and at mile 60.

DRAINAGE AREA.-- 503 mi².

PERIOD OF RECORD.-- August 1929 to January 1972.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
116	122	123	132	147	164
80	70	60	50	40	30
189	214	246	289	354	470
20	10	5	2	1	0.5
708	1340	2300	4350	6400	8040

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	150	131	121	113	104
3	151	132	122	114	106
7	154	134	124	116	107
14	158	137	126	118	109
30	169	145	133	125	115
60	184	154	141	132	123
120	218	179	164	154	144
183	258	205	185	172	160

07031650 - WOLF RIVER NEAR GERMANTOWN, TN

LOCATION.-- Lat 35°06'59", long 89°48'05", Shelby County, on left bank at bridge on Germantown Road, 2.1 miles north of Germantown, 3.6 miles downstream from Grays Creek, 6.4 miles upstream from Fletcher Creek, and at mile 18.9.

DRAINAGE AREA.-- 699 mi².

PERIOD OF RECORD.-- October 1969 to September 1975.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
199	201	201	206	223	245
80	70	60	50	40	30
305	345	403	491	621	828
20	10	5	2	1	0.5
1260	2220	3570	5530	8130	12000

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	172	150	138	122	
3	175	152	139	124	
7	180	155	140	130	
14					
30					
60					
120					
183					

07031700 - WOLF RIVER AT RALEIGH, TN

LOCATION.-- Lat 35° 12' 08", long 89° 55' 24", Shelby County, on downstream side of Austin Peay Highway bridge at Raleigh and at mile 16.9.

DRAINAGE AREA.-- 770 mi².

PERIOD OF RECORD.-- June 1936 to June 1963, October 1963 to December 1969.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
154	168	173	176	193	217
80	70	60	50	40	30
253	287	337	405	510	724
20	10	5	2	1	0.5
1300	2480	3980	6620	8730	11000

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	192	156	138	123	
3	194	164	149	138	
7	197	172	161	152	
14	205	180	168	160	
30	225	193	177	165	
60	246	206	188	175	
120	293	241	220	207	
183	351	272	243	224	

LOCATION.-- Lat 35°02'59", long 89°49'08", Shelby County, on left bank at downstream side of bridge on Winchester Road, 2.6 miles south of Germantown, and 17.3 miles upstream from mouth.

DRAINAGE AREA.-- 68.2 mi².

PERIOD OF RECORD.-- October 1969 to September 1975.

REMARKS:

FLOW DURATION

FLOW IN CUBIC FEET PER SECOND, WHICH WAS EQUALED OR EXCEEDED FOR PERCENTAGE OF TIME INDICATED.

99.5	99.1	99	98	95	90
0.0	0.0	0.0	0.0	0.02	0.08
80	70	60	50	40	30
0.36	0.90	2.21	4.52	9.25	19.3
20	10	5	2	1	0.5
52.2	237	611	1220	1870	2590

MAGNITUDE AND FREQUENCY

LOWEST AVERAGE FLOW IN CUBIC FEET PER SECOND, FOR INDICATED RECURRENCE INTERVAL IN YEARS.

PERIOD (CONSECUTIVE DAYS)	2	5	10	20	50
1	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	
14					
30					
60					
120					
183					