



~~SECRET~~
Dup

LOW FLOWS AND FLOW DURATION OF TENNESSEE STREAMS THROUGH 1981

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 84-4347



Prepared in cooperation with the

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT,

DIVISION OF WATER MANAGEMENT

03539800 - OBED RIVER NEAR LANSING, TN

LOCATION.--Lat 36°04'53", long 84°40'15", Morgan County, on left bank at Alley Ford, 2.9 miles southwest of Lansing, 3.0 miles downstream from Clear Creek, and at mile 1.5.

DRAINAGE AREA.--518 mi².

PERIOD OF RECORD.--1958-68, 1974-81.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	1.2	80	52	20	1,500
99.1	1.5	70	110	10	2,600
99	1.6	60	230	5	4,000
98	2.8	50	420	2	6,900
95	9.3	40	660	1	9,900
90	21	30	980	0.5	13,500

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	6.5	2.0	0.9	0.5
3	7.0	2.2	1.1	0.6
7	8.0	2.6	1.3	0.7
14	10	3.2	1.6	0.9
30	19	6.0	3.0	1.5
60	38	13	7.1	4.0
90	62	24	14	8.2

03540000 - EMORY RIVER AT DEERMONT, TN

LOCATION.--Lat 36°01'39", long 84°34'47", Morgan County, on county highway bridge at Deermont siding on Southern Railway, 0.4 mile upstream from Crab Orchard Creek, 2.0 miles downstream from Crooked Fork, 3.2 miles northwest of Oakdale, and at mile 21.8.

DRAINAGE AREA.--704 mi².

PERIOD OF RECORD.--1921-27.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	3.99	80	68.8	20	1,980
99.1	4.24	70	164	10	3,420
99	4.30	60	373	5	5,300
98	5.00	50	654	2	6,200
95	8.36	40	981	1	12,600
90	18.4	30	1,340	0.5	16,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	4.5	3.8	3.6	*
3	4.9	4.2	4.0	*
7	5.8	4.5	4.0	*
14				
30				
60				
90				

* Figures cannot be determined from available data.

03540 500 - EMORY RIVER AT OAKDALE, TN

LOCATION.--Lat 35°58'59", long 84°33'29", Morgan County, on left bank at Oakdale, 1,000 feet downstream from highway bridge, 1,100 feet downstream from Mud Lick Creek, and at mile 18.3.

DRAINAGE AREA.--764 mi².

PERIOD OF RECORD.--1928-81.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	0.60	80	55	20	2,000
99.1	1.2	70	130	10	3,600
99	1.3	60	260	5	5,600
98	2.6	50	530	2	10,000
95	7.0	40	890	1	14,000
90	18	30	1,300	0.5	21,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	5.70	1.20	0.40	0.0
3	6.30	1.40	.4	0.0
7	7.10	1.60	.6	.2
14	8.80	2.10	.9	.3
30	16.7	3.85	1.53	.6
60	34.9	9.37	4.34	2.20
90	63.0	18.2	8.81	4.64

03541300 - BITTER CREEK NEAR OAKDALE, TN

LOCATION.--Lat 35°59'22", long 84°29'16", Morgan County, on left bank
0.2 mile upstream from bridge on U.S. Highway 27, 3.9 miles east of
Oakdale, and at mile 0.3.

DRAINAGE AREA.--12.6 mi².

PERIOD OF RECORD.--1968-75.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	0.13	80	1.23	20	38.2
99.1	.16	70	2.70	10	68.0
99	.16	60	5.18	5	112
98	.22	50	10.3	2	212
95	.35	40	17.1	1	363
90	.58	30	25.7	0.5	590

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	0.1	0	0	0
3	.1	0	0	0
7	.1	0	0	0
14				
30				
60				
90				

03541500 - WHITES CREEK NEAR GLEN ALICE, TN

LOCATION.--Lat 35°47'49", long 84°45'37", Roane County, on left bank,
0.25 mile upstream from Black Creek, 2,200 feet upstream, from Southern
Railway bridge, and 1.5 miles southwest of Glen Alice.

DRAINAGE AREA.--108 mi².

PERIOD OF RECORD.--1934-55.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	0.13	80	4.78	20	283
99.1	.17	70	12.7	10	532
99	.18	60	26.8	5	871
98	.23	50	55.1	2	1,490
95	.45	40	110	1	2,170
90	1.15	30	178	0.5	3,120

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	0.39	0.15	0.10	0.07
3	.42	.16	.10	.07
7	.48	.18	.12	.08
14	.64	.23	.14	.10
30	.98	.34	.20	.13
60	2.13	.66	.35	.21
90	5.13	1.28	.60	.30

03543500 - SEWEE CREEK NEAR DECATUR, TN

LOCATION.--Lat 35°34'53", long 84°44'53", Meigs County, on right bank
 0.3 mile downstream from bridge on State Highway 58, 0.5 mile
 downstream from Dry Fork, 5 miles north of Decatur, and at mile 5.7.

DRAINAGE AREA.--117 mi².

PERIOD OF RECORD.--1935-81.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
 of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	14.5	80	30.4	20	250
99.1	16.0	70	40.0	10	420
99	16.1	60	55.2	5	670
98	17.5	50	78.0	2	1,200
95	21.0	40	113	1	1,700
90	24.0	30	167	0.5	2,600

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	19.5	15.5	13.9	12.8
3	19.9	15.7	14.1	12.9
7	20.6	16.3	14.5	13.3
14	21.6	17.2	15.5	14.3
30	24.1	19.1	17.2	15.9
60	27.3	21.3	19.2	17.8
90	30.6	23.2	20.9	19.4

03544500 - RICHLAND CREEK NEAR DAYTON, TN

LOCATION.--Lat 35°30'17", long 85°01'20", Rhea County, on left bank at Morgantown, 0.4 mile upstream from bridge on State Highway 30, 1.0 mile northwest of Dayton, 1.8 miles downstream from Payne Creek, and at mile 5.2.

DRAINAGE AREA.--50.2 mi².

PERIOD OF RECORD.--1929-55, 1981.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	0	80	1.1	20	158
99.1	0	70	5.3	10	260
99	0	60	17.0	5	404
98	0.1	50	38.0	2	712
95	0.2	40	65.7	1	1,030
90	0.3	30	102	0.5	1,480

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	0.1	0	0	0
3	.1	0	0	0
7	.2	0	0	0
14	.2	0	0	0
30	.3	.1	0	0
60	.8	.2	.1	0
90	1.9	.4	.2	.1

03556000 - TURTLETOWN CREEK AT TURTLETOWN, TN

LOCATION.--Lat 35°07'57", long 84°20'37", Polk County, on left bank
0.5 mile north of Turtletown, 0.75 mile downstream from Nigger Creek,
and 6 miles upstream from mouth.

DRAINAGE AREA.--26.9 mi².

PERIOD OF RECORD.--1934-71.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	12.6	80	25.6	20	68.7
99.1	14.1	70	30.2	10	87.5
99	14.3	60	35.6	5	112
98	15.7	50	42.2	2	161
95	18.0	40	49.6	1	220
90	20.8	30	58.6	0.5	280

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	18.3	14.3	12.7	11.4
3	18.6	14.6	12.9	11.6
7	19.2	14.9	13.1	11.7
14	20.0	15.8	13.9	12.6
30	21.6	16.8	14.8	13.4
60	23.8	18.7	16.6	15.1
90	25.4	20.2	18.1	16.6

03556500 - HIWASSEE RIVER NEAR McFARLAND, TN

LOCATION.--Lat 35°10'48", long 84°26'36", Polk County, on left bank
 0.25 mile downstream from Smith Creek, 0.4 mile downstream from
 Appalachia powerhouse of Tennessee Valley Authority, 2.8 miles west of
 McFarland, and at mile 53.2.

DRAINAGE AREA.--1,136 mi².

PERIOD OF RECORD.--1944-81.

REMARKS.--Flow regulated by Chatuge, Nottely, and Hiwassee Lakes (for period
 of Record), and by Appalachia Lake (since February 1943).

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
 of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	108	80	1,440	20	3,090
99.1	151	70	1,800	10	3,300
99	157	60	2,250	5	4,080
98	210	50	2,500	2	6,000
95	450	40	2,690	1	7,830
90	890	30	2,890	0.5	9,200

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	132	74.6	59.1	50.2
3	335	165	110	76.7
7	519	257	167	113
14	768	381	237	151
30	1,150	656	427	277
60	1,330	975	828	723
90	1,580	1,240	1,060	978

03557000 - HIWASSEE RIVER NEAR RELIANCE, TN

LOCATION.--Lat 35°13'20", long 84°31'34", Polk County, on State Highway 40, 0.5 mile downstream from Spring Creek, 2.9 miles downstream from Reliance, 8.6 miles downstream from Appalachia powerhouse of Tennessee Valley Authority, and at mile 45.0.

DRAINAGE AREA.--1,223 mi².

PERIOD OF RECORD.--1901-13.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	429	80	1,140	20	3,590
99.1	500	70	1,410	10	5,040
99	513	60	1,740	5	7,000
98	606	50	2,040	2	11,200
95	725	40	2,460	1	15,500
90	886	30	2,940	0.5	22,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	790	570	480	410
3	800	570	480	410
7	840	590	490	410
14	880	620	510	430
30	970	690	560	470
60	1,100	760	620	520
90	1,200	820	680	590

03559500 - OCOEE RIVER AT COPPERHILL, TN

LOCATION.--Lat 34°59'29", long 84°22'33", Polk County, on right bank
0.2 mile upstream from Fightingtown Creek, 0.4 mile downstream from
Copperhill, and at mile 37.5.

DRAINAGE AREA.--352 mi².

PERIOD OF RECORD.--1943-71.

REMARKS.--Sixty-six percent of drainage area regulated by Blue Ridge Lake.
Record includes diversion from this stream by Tennessee Copper Co.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	110	80	480	20	1,120
99.1	121	70	615	10	1,320
99	124	60	717	5	1,520
98	144	50	806	2	1,940
95	217	40	891	1	2,470
90	316	30	987	0.5	2,690

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	128	90.0	80.0	77.6
3	169	119	88.0	84.4
7	249	140	110	90.0
14	327	200	130	110
30	447	318	210	160
60	542	422	280	260
90	598	473	340	300

03560500 - DAVIS MILL CREEK AT COPPERHILL, TN

LOCATION.--Lat 34°59'43", long 84°22'56", Polk County, on right bank
0.1 mile upstream from mouth, 0.4 mile northwest of Louisville &
Nashville Railroad station, and 0.8 mile northwest of post office at
Copperhill.

DRAINAGE AREA.--5.16 mi².

PERIOD OF RECORD.--1950-77.

REMARKS.--Flow includes an unknown amount of diversion from other drainage
basins through the sulphuric acid plant of Tennessee Copper Co. Some
fluctuation due to irregular release of wastes by Tennessee Copper Co.
just above gage.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	5.6	80	32	20	64
99.1	5.9	70	35	10	120
99	6.0	60	39	5	140
98	6.8	50	43	2	160
95	23	40	46	1	170
90	27	30	51	0.5	180

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	24.5	17.6	15.2	13.7
3	26.1	18.8	16.3	14.7
7	27.8	19.9	17.1	15.4
14	28.8	21.0	18.5	16.8
30	30.2	23.8	22.0	21.1
60	33.2	25.7	23.7	22.7
90	35.1	26.8	24.6	23.4

03561000 - NORTH POTATO CREEK NEAR DUCKTOWN, TN

LOCATION.--Lat 35°00'54", long 84°22'58", Polk County, on right bank
50 feet upstream from bridge on State Highway 40, 1.5 miles south of
Ducktown, and 2 miles upstream from mouth.

DRAINAGE AREA.--13.0 mi².

PERIOD OF RECORD.--1934-70.

REMARKS.--Discharge includes diversion from Brush Creek and from Ocoee
River. This diversion was small prior to June 1941. Some fluctuations
caused by Tennessee Copper Co. plant's irregular pumpage from mines.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	6.41	80	16.2	20	37.6
99.1	6.89	70	19.0	10	50.0
99	7.01	60	21.5	5	67.4
98	7.94	50	24.4	2	100
95	10.2	40	27.9	1	146
90	12.7	30	32.0	0.5	190

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	11.9	7.91	5.40	4.71
3	12.4	8.20	6.00	5.26
7	13.0	9.16	6.60	6.06
14	13.7	9.80	7.50	7.10
30	15.4	11.2	8.00	7.50
60	17.9	13.0	9.20	8.50
90	19.0	14.0	10.0	9.00

03561500 - OCOEE RIVER AT McHARG, TN

LOCATION.--Lat 35°00'25", long 84°24'46", Polk County, 0.6 mile downstream from highway bridge, 1 mile downstream from McHarg railroad siding, 1 mile downstream from North Potato Creek, 3 miles downstream from Copperhill, and at mile 34.6.

DRAINAGE AREA.--447 mi².

PERIOD OF RECORD.--1920-31.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	136	80	529	20	1,520
99.1	152	70	660	10	2,000
99	156	60	779	5	2,590
98	196	50	926	2	3,460
95	304	40	1,080	1	4,400
90	395	30	1,270	0.5	5,350

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	340	190	120	100
3	360	220	130	110
7	380	240	140	120
14	410	250	150	140
30	450	290	170	160
60	500	320	190	180
90	560	370	220	190

03561500 - OCOEE RIVER AT McHARG, TN

LOCATION.--Lat 35°00'25", long 84°24'46", Polk County, 0.6 mile downstream from highway bridge, 1 mile downstream from McHarg railroad siding, 1 mile downstream from North Potato Creek, 3 miles downstream from Copperhill, and at mile 34.6.

DRAINAGE AREA.--447 mi².

PERIOD OF RECORD.--1931-42.

REMARKS.--Flow regulated by Blue Ridge Lake.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	146	80	410	20	1,210
99.1	154	70	619	10	1,490
99	156	60	797	5	1,880
98	175	50	911	2	2,540
95	210	40	1,010	1	3,400
90	264	30	1,100	0.5	4,090

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	170	140	130	120
3	200	160	140	130
7	240	170	150	130
14	300	200	170	150
30	360	240	190	160
60	470	330	270	230
90	560	400	340	300

03562000 - BRUSH CREEK NEAR DUCKTOWN, TN

LOCATION.--Lat 35°02'12", long 84°26'09", Polk County, 100 feet downstream from bridge on U.S. Highway 64, 3 miles west of Ducktown, at mile 0.75.

DRAINAGE AREA.--14.4 mi².

PERIOD OF RECORD.--1934-42.

REMARKS.--Some flow diverted to North Potato Creek. Site inundated by Ocoee No. 3 Lake.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	5.25	80	10.1	20	33.9
99.1	5.46	70	12.2	10	47.4
99	5.51	60	14.8	5	66.8
98	5.96	50	17.7	2	115
95	6.59	40	21.4	1	170
90	7.69	30	26.2	0.5	243

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	5.6	5.1	5.0	*
3	5.7	5.3	5.1	*
7	6.1	5.4	5.2	*
14				
30				
60				
90				

* Figures cannot be determined from available data.

03563000 - OCOEE RIVER AT EMF, TN

LOCATION.--Lat 35°05'48", long 84°32'07", Polk County, on left bank, 150 feet west of U.S. Highway 64, 700 feet downstream from Tennessee Valley Authority's Ocoee No. 2 powerplant, 0.75 mile upstream from former village of Emf (Caney Creek), 0.75 mile upstream from Big Creek, 2.4 miles south of Archville, and at mile 19.6.

DRAINAGE AREA.--524 mi².

PERIOD OF RECORD.--1943-81.

REMARKS.--Flow regulated by Blue Ridge Lake, Ocoee No. 3 Lake, and by powerplant above station.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	65.0	80	943	20	1,590
99.1	130	70	1,000	10	1,800
99	170	60	1,070	5	2,340
98	410	50	1,100	2	3,300
95	630	40	1,200	1	3,900
90	780	30	1,380	0.5	4,900

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	90.2	23.8	11.6	6.37
3	280	80.1	34.8	15.9
7	560	380	250	140
14	720	460	320	210
30	780	610	520	450
60	870	730	660	590
90	930	800	740	690

03564500 - OCOEE RIVER AT PARKSVILLE, TN

LOCATION.--Lat 35°05'48", long 84°39'15", Polk County, on right bank 0.4 mile downstream from Parksville Dam and Ocoee No. 1 power plant of Tennessee Valley Authority at Parksville, and at mile 11.5.

DRAINAGE AREA.--595 mi².

PERIOD OF RECORD.--1943-81.

REMARKS.--Flow regulated by Blue Ridge Lake, Ocoee No. 3 Lake, and Lake Ocoee.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	110	80	880	20	1,820
99.1	120	70	1,000	10	2,200
99	122	60	1,160	5	2,790
98	156	50	1,300	2	3,470
95	220	40	1,440	1	4,600
90	480	30	1,580	0.5	5,500

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	117	83.1	72.7	66.4
3	287	167	123	93.9
7	530	360	285	231
14	658	487	407	347
30	800	646	569	508
60	922	794	728	675
90	993	877	821	777

03565000 - HIWASSEE RIVER ABOVE CHARLESTON, TN

LOCATION.--Lat 35°12'33", long 84°39'31", Polk County, on right bank 0.2 mile downstream from Ocoee River, 0.3 mile upstream from Louisville & Nashville bridge, 2.5 miles north of Benton, 15.2 miles upstream from Charleston, and at mile 34.2.

DRAINAGE AREA.--2,001 mi².

PERIOD OF RECORD.--1954-76.

REMARKS.--Flow regulated by six reservoirs above station.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	940	80	2,850	20	5,000
99.1	1,130	70	3,300	10	6,200
99	1,170	60	3,600	5	8,200
98	1,380	50	3,900	2	11,000
95	1,800	40	4,200	1	13,500
90	2,300	30	4,500	0.5	16,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	1,020	682	544	448
3	1,450	1,080	924	817
7	1,920	1,430	1,220	1,060
14	2,110	1,600	1,370	1,210
30	2,520	1,930	1,650	1,440
60	2,800	2,340	2,140	1,980
90	3,000	2,590	2,400	2,250

03565040 - CHESTUEE CREEK ABOVE ENGLEWOOD, TN

LOCATION.--Lat 35°26'24", long 84°26'51", McMinn County, on left bank
2.5 miles above Englewood, 2.7 miles above mouth of Little Chestuee
Creek and 20 feet downstream from road bridge.

DRAINAGE AREA.--14.8 mi².

PERIOD OF RECORD.--1945-57.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	2.18	80	4.61	20	30.5
99.1	2.24	70	6.40	10	47.6
99	2.26	60	8.40	5	72.3
98	2.42	50	11.3	2	125
95	2.87	40	15.6	1	210
90	3.43	30	22.0	0.5	333

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	3.0	2.4	2.1	2.0
3	3.0	2.4	2.1	2.0
7	3.1	2.5	2.2	2.0
14	3.3	2.5	2.2	2.1
30	3.7	2.7	2.4	2.2
60	4.3	3.0	2.6	2.3
90	5.0	3.5	2.9	2.6

03565120 - CHESTUEE CREEK AT ZION HILL, TN

LOCATION.--Lat 35°24'05", long 84°31'22", McMinn County, on left bank
2.5 miles southwest of Englewood, 2.1 miles above confluence with
Middle Creek, and 2,000 feet downstream from road bridge.

DRAINAGE AREA.--37.8 mi².

PERIOD OF RECORD.--1945-61.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	7.51	80	14.0	20	75.5
99.1	7.95	70	18.0	10	116
99	8.07	60	22.9	5	175
98	8.52	50	29.7	2	300
95	9.42	40	40.0	1	445
90	11.0	30	55.1	0.5	643

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	9.3	7.7	7.1	6.7
3	9.4	7.8	7.2	6.9
7	9.6	7.9	7.4	7.0
14	10	8.1	7.5	7.1
30	11	8.9	8.1	7.6
60	13	10	8.9	8.2
90	14	11	9.8	9.0

03565160 - MIDDLE CREEK BELOW HWY 39 NEAR ENGLEWOOD, TN

LOCATION.--Lat 35°25'16", long 84°31'16", McMinn County, on left bank
1.8 miles west of Englewood, 1.6 miles above junction with Chestuee
Creek and 0.5 mile below Highway 39 bridge.

DRAINAGE AREA.--32.7 mi².

PERIOD OF RECORD.--1945-61.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	7.52	80	13.6	20	72.2
99.1	7.97	70	17.5	10	109
99	8.08	60	22.6	5	145
98	8.48	50	28.8	2	222
95	9.53	40	38.4	1	330
90	11.1	30	51.9	0.5	488

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	8.9	7.8	7.4	7.1
3	9.1	7.8	7.4	7.1
7	9.3	7.9	7.5	7.1
14	9.6	8.2	7.7	7.4
30	11	8.8	8.1	7.7
60	12	9.7	8.8	8.2
90	14	11	9.3	8.5

03565250 - CHESTUEE CREEK AT DENTVILLE, TN

LOCATION.--Lat 35°16'58", long 84°34'32", McMinn County, on left bank at highway bridge at Dentville, 1.2 miles downstream from Big Foot Branch and 18.1 miles above mouth.

DRAINAGE AREA.--114 mi².

PERIOD OF RECORD.--1945-61.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	23.2	80	44.0	20	251
99.1	24.6	70	56.2	10	378
99	24.9	60	72.8	5	537
98	26.6	50	93.7	2	837
95	29.1	40	128	1	1,230
90	33.7	30	176	0.5	1,800

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	29	23	22	20
3	29	24	22	21
7	30	24	22	21
14	31	25	23	21
30	35	27	25	23
60	40	30	27	25
90	43	33	29	26

03565300 - SOUTH CHESTUEE CREEK NEAR BENTON, TN

LOCATION.--Lat 35°10'02", long 84°42'59", Polk County, on downstream right wingwall of county highway bridge, 1,000 feet downstream from Climer Branch, 2.4 miles southwest of Benton Station, 2.8 miles north of Ocoee, and 3.6 miles west of Benton.

DRAINAGE AREA.--31.8 mi².

PERIOD OF RECORD.--1958-81.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	2.8	80	6.7	20	61
99.1	3.1	70	9.4	10	110
99	3.2	60	14	5	180
98	3.6	50	19	2	400
95	4.2	40	28	1	570
90	5.0	30	42	0.5	840

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	3.80	2.85	2.48	2.22
3	3.95	2.94	2.55	2.27
7	4.17	3.12	2.71	2.42
14	4.42	3.30	2.87	2.56
30	5.14	3.77	3.29	2.99
60	6.48	4.60	3.97	3.57
90	7.46	5.17	4.46	4.04

03565500 - OOSTANAULA CREEK NEAR SANFORD, TN

LOCATION.--Lat 35°19'39", long 84°24'19", McMinn County, on right bank
 20 feet downstream from highway bridge, 1.3 miles southeast of Sanford,
 3.5 miles northeast of Calhoun, and at mile 5.7.

DRAINAGE AREA.--57.0 mi².

PERIOD OF RECORD.--1955-75.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
 of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	18	80	30	20	125
99.1	19	70	37	10	180
99	19	60	47	5	275
98	20	50	59	2	460
95	23	40	74	1	670
90	25	30	95	0.5	890

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	22.0	19.1	18.0	17.4
3	22.4	19.3	18.2	17.5
7	22.9	19.6	18.5	17.7
14	23.6	20.2	19.0	18.2
30	25.2	21.6	20.4	19.7
60	27.4	23.2	21.8	21.0
90	29.2	24.4	22.9	22.1

03566000 - HIWASSEE RIVER AT CHARLESTON, TN

LOCATION.--Lat 35°17'16", long 84°45'07", Bradley County, at Hiwassee Packing Plant; 250 feet downstream from old highway bridge, 250 feet upstream from Southern Railway bridge, 1,700 feet upstream from bridge on U.S. Highway 11 at Charleston, and at mile 18.9.

DRAINAGE AREA.--2,298 mi².

PERIOD OF RECORD.--1964-77.

REMARKS.--Some diversions above the station for industrial and municipal water supplies. Flow regulated by five reservoirs.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	1,200	80	3,260	20	5,730
99.1	1,400	70	3,600	10	7,500
99	1,450	60	3,920	5	9,820
98	1,710	50	4,200	2	13,000
95	2,200	40	4,560	1	17,000
90	2,700	30	5,040	0.5	20,700

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	1,400	870	680	540
3	1,800	1,200	960	810
7	2,300	1,600	1,300	1,100
14	2,500	1,800	1,600	1,400
30	2,800	2,300	2,000	1,800
60	3,100	2,600	2,400	2,200
90	3,300	2,800	2,600	2,500

03566420 - WOLFTEVER CREEK NEAR OOLTEWAH, TN

LOCATION.--Lat 35°03'43", long 85°03'59", Hamilton County, on right bank at bridge on county road, 0.6 mile downstream from Southern Railway bridge, 0.85 mile south of post office at Ooltewah, and 1.65 miles above mouth of Little Wolftever Creek.

DRAINAGE AREA.--18.8 mi².

PERIOD OF RECORD.--1964-75.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	2.4	80	5.3	20	39
99.1	2.6	70	6.8	10	69
99	2.7	60	9.6	5	120
98	3.0	50	14	2	230
95	3.6	40	19	1	370
90	4.2	30	27	0.5	490

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	3.1	2.4	2.1	1.7
3	3.2	2.5	2.2	1.9
7	3.3	2.6	2.3	2.0
14	3.7	2.9	2.5	2.2
30	4.1	3.2	2.9	2.5
60	5.4	4.0	3.5	2.9
90	6.1	4.4	3.6	3.3

03567500 - SOUTH CHICKAMAUGA CREEK NEAR CHICKAMAUGA, TN

LOCATION.--Lat 35°00'50", long 85°12'27", Hamilton County, on right bank
0.3 mile upstream from bridge on U.S. Highway 11, 0.8 mile downstream
from West Chickamauga Creek, 1.5 miles south of Chickamauga, 6 miles
east of the city hall in Chattanooga, and at mile 12.4.

DRAINAGE AREA.--428 mi².

PERIOD OF RECORD.--1929-78.

REMARKS.--Some diurnal fluctuation at low flow caused by small mills
upstream.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	82	80	155	20	820
99.1	89	70	190	10	1,500
99	91	60	230	5	2,600
98	97	50	300	2	4,400
95	110	40	410	1	6,500
90	130	30	560	0.5	9,300

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	110	91.2	82.5	75.7
3	113	94.4	85.9	79.4
7	115	96.8	88.3	81.8
14	120	100	90.6	83.5
30	129	105	95.2	87.5
60	143	114	103	95.1
90	158	125	112	103

03568000 - TENNESSEE RIVER AT CHATTANOOGA, TN

LOCATION.--Lat 35°05'12", lon~ 85°16'43", Hamilton County, on right bank at Rivermont Golf and Country Club, 0.5 mile downstream from South Chickamauga Creek, 3 miles downstream from Chickamauga Dam, 3.5 miles upstream from Walnut Street Bridge in Chattanooga, and at mile 467.6.

DRAINAGE AREA.--21,400 mi².

PERIOD OF RECORD.--1875-1936.

REMARKS.--Unregulated. See next page for present characteristics.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	5,450	80	13,700	20	53,800
99.1	6,190	70	18,000	10	78,000
99	6,310	60	22,100	5	109,000
98	7,090	50	27,000	2	159,000
95	8,400	40	33,800	1	192,000
90	10,000	30	41,800	0.5	222,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	7,930	6,110	5,330	4,770
3	8,120	6,250	5,470	4,900
7	8,380	6,460	5,650	5,070
14	8,880	6,800	5,920	5,300
30	9,780	7,450	6,490	5,800
60	11,400	8,570	7,410	6,590
90	13,100	9,750	8,390	7,430

03568000 - TENNESSEE RIVER AT CHATTANOOGA, TN

LOCATION.--Lat 35°05'12", long 85°16'43", Hamilton County, on right bank at Rivermont Golf and Country Club, 0.5 mile downstream from South Chickamauga Creek, 3 miles downstream from Chickamauga Dam, 3.5 miles upstream from Walnut Street Bridge in Chattanooga, and at mile 467.6.

DRAINAGE AREA.--21,400 mi² (approximately).

PERIOD OF RECORD.--1954-81.

REMARKS.--Since March 1936, flow regulated by increasing number of reservoirs above the station.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	8,650	80	23,500	20	43,900
99.1	9,920	70	27,000	10	56,000
99	10,100	60	29,300	5	77,700
98	12,000	50	32,000	2	108,000
95	16,000	40	34,700	1	133,000
90	19,000	30	38,700	0.5	150,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	9,250	6,820	5,770	5,010
3	12,900	9,600	8,170	7,140
7	16,100	12,000	10,000	8,620
14	18,400	14,000	12,000	10,500
30	21,300	16,900	14,800	13,100
60	23,300	19,700	18,100	16,800
90	24,900	21,900	20,500	19,400

03571000 - SEQUATCHIE RIVER NEAR WHITWELL, TN

LOCATION.--Lat 35°12'22", long 85°29'48", Marion County, on right bank 15 feet downstream from highway bridge, 1.5 miles east of Whitwell, 3 miles upstream from bridge on State Highway 27, 4.5 miles downstream from Griffith Creek, and at mile 25.1.

DRAINAGE AREA.--402 mi² (includes 18 mi² without surface drainage).

PERIOD OF RECORD.--1954-81.

REMARKS.--Prior to 1950 some diurnal fluctuation caused by small mills above station.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	32	80	96	20	1,100
99.1	34	70	140	10	1,800
99	35	60	210	5	2,700
98	40	50	340	2	4,400
95	49	40	500	1	6,200
90	63	30	720	0.5	8,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	49.5	35.0	29.3	25.3
3	50.7	36.3	30.7	26.7
7	52.6	37.9	32.1	28.2
14	55.4	39.3	33.2	28.9
30	61.0	42.3	35.8	31.5
60	72.6	48.8	41.1	36.2
90	87.8	56.8	46.7	40.3

03571850 - TENNESSEE RIVER AT SOUTH PITTSBURG, TN

LOCATION.--Lat 35°00'41", long 85°41'51", Marion County, on right bank 150 feet upstream from South Pittsburg Ferry landing on Tennessee State Highway 156, 0.5 mile downstream from Battle Creek, 0.5 mile east of South Pittsburg, 4.6 miles downstream from Sequatchie River, 6.5 miles downstream from Nickajack Dam, and at mile 418.2.

DRAINAGE AREA.--22,640 mi² (approximately).

PERIOD OF RECORD.--1954-81.

REMARKS.--Since March 1936, flow regulated by increasing number of reservoirs above the station.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	9,630	80	25,500	20	47,900
99.1	11,200	70	29,000	10	64,000
99	11,600	60	31,600	5	88,800
98	14,000	50	35,000	2	122,000
95	18,000	40	38,200	1	150,000
90	21,000	30	42,200	0.5	175,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	10,800	7,510	6,100	5,080
3	14,600	11,100	9,610	8,540
7	18,000	13,700	11,800	10,400
14	19,900	15,400	13,500	12,000
30	22,400	18,000	16,000	14,500
60	24,700	21,300	19,900	19,000
90	26,600	23,300	21,900	21,000

03578000 - ELK RIVER NEAR PELHAM, TN

LOCATION.--Lat 35°17'48", long 85°52'12", Grundy County, on right bank at downstream side of bridge on U.S. Highway 41, 1.1 miles southeast of Pelham, 1.8 miles upstream from Caldwell Creek, and at mile 194.2.

DRAINAGE AREA.--65.6 mi².

PERIOD OF RECORD.--1952-82.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	1.5	80	8.4	20	190
99.1	1.7	70	17	10	330
99	1.7	60	32	5	550
98	2.0	50	55	2	950
95	2.6	40	87	1	1,300
90	4.2	30	130	0.5	1,900

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	3.03	1.75	1.31	1.04
3	3.13	1.81	1.36	1.08
7	3.32	1.91	1.44	1.14
14	3.68	2.10	1.57	1.24
30	4.58	2.53	1.86	1.45
60	6.64	2.97	2.00	1.47
90	8.87	3.80	2.51	1.81

03578500 - BRADLEY CREEK NEAR PRAIRIE PLAINS, TN

LOCATION.--Lat 35°21'21", long 85°58'45", Coffee County, on left bank
165 feet downstream from highway bridge, 1.1 miles northwest of Prairie
Plains, and 3.6 miles upstream from mouth.

DRAINAGE AREA.--41.3 mi².

PERIOD OF RECORD.--1952-59.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	3.21	80	7.34	20	84.8
99.1	3.30	70	10.3	10	145
99	3.32	60	15.4	5	233
98	3.56	50	23.5	2	429
95	4.10	40	39.5	1	670
90	4.76	30	57.7	0.5	990

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	7.2	4.5	3.2	2.2
3	7.5	5.0	3.8	3.0
7	7.8	5.6	4.4	3.6
14				
30				
60				
90				

03579100 - ELK RIVER NEAR ESTILL SPRINGS, TN

LOCATION.--Lat 35°17'08", long 86°06'20", Franklin County, on left bank 8 feet downstream and 8 feet shoreward from corner of bridge on Corn Mill Road, 1.7 miles northeast of Estill Springs, 2.7 miles downstream from Elk River Dam, 4.0 miles upstream from bridge on U.S. Highway 41-A and at mile 167.3.

DRAINAGE AREA.--275 mi².

PERIOD OF RECORD.--1922-52.

REMARKS.--Unregulated. See next page for present characteristics.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	29.3	80	69.3	20	679
99.1	36.2	70	101	10	1,130
99	37.4	60	147	5	1,720
98	42.5	50	220	2	2,740
95	49.5	40	322	1	3,710
90	55.3	30	466	0.5	4,900

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	48.9	32.5	24.1	12.0
3	51.3	36.5	28.8	18.0
7	52.8	39.2	32.4	22.0
14	53.9	42.4	37.0	30.0
30	57.0	46.1	41.9	37.0
60	64.9	49.6	44.2	40.7
90	76.8	55.7	48.4	43.7

03579100 - ELK RIVER NEAR ESTILL SPRINGS, TN

LOCATION.--Lat 35°17'08", long 86°06'20", Franklin County, on left bank 8 feet downstream and 8 feet shoreward from corner of bridge on Corn Mill Road, 1.7 miles northeast of Estill Springs, 2.7 miles downstream from Elk River Dam, 4.0 miles upstream from bridge on U.S. Highway 41-A, and at mile 167.3.

DRAINAGE AREA.--275 mi².

PERIOD OF RECORD.--1953-81.

REMARKS.--Flow regulated by Woods Reservoir 2.7 miles upstream.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	23.2	80	65.9	20	682
99.1	25.1	70	97.1	10	1,100
99	25.4	60	142	5	1,760
98	28.9	50	230	2	3,000
95	35.0	40	336	1	4,100
90	44.0	30	460	0.5	5,450

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	29.3	22.1	19.3	17.4
3	30.9	23.1	20.0	17.9
7	32.3	24.4	21.5	19.6
14	36.5	27.1	23.8	21.7
30	43.6	31.0	26.5	23.5
60	63.6	41.5	33.8	28.7
90	78.9	53.5	45.0	39.6

03580300 - BOILING FORK CREEK ABOVE WINCHESTER, TN

LOCATION.--Lat 35°11'14", long 86°05'42", Franklin County, on left bank, on downstream end of left pier of county road bridge, 0.65 mile upstream from Louisville & Nashville Railroad bridge, 1.0 mile east of Winchester, 2.3 miles upstream from mouth of Wagner Creek, and 5.2 miles above mouth.

DRAINAGE AREA.--55.9 mi².

PERIOD OF RECORD.--1962-70.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	3.70	80	8.60	20	114
99.1	3.78	70	13.6	10	196
99	3.80	60	22.8	5	304
98	4.01	50	34.4	2	570
95	4.70	40	53.0	1	760
90	5.81	30	78.5	0.5	1,100

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	2.3	1.2	1.0	0.8
3	2.5	1.3	1.0	.9
7	2.7	1.4	1.1	1.0
14				
30				
60				
90				

03582000 - ELK RIVER ABOVE FAYETTEVILLE, TN

LOCATION.--Lat 35°08'04", long 86°32'23", Lincoln County, on right bank
100 feet downstream from highway bridge, 1.75 miles southeast of
Fayetteville, 4 miles upstream from Norris Creek, and at mile 93.9.

DRAINAGE AREA.--827 mi².

PERIOD OF RECORD.--1935-52.

REMARKS.--Prior to August 1949, diurnal fluctuations at low flow caused by
powerplants upstream.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	150	80	246	20	1,930
99.1	152	70	320	10	3,200
99	153	60	433	5	4,920
98	158	50	620	2	8,200
95	180	40	930	1	11,000
90	200	30	1,350	0.5	14,300

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	170	150	140	140
3	170	150	140	140
7	170	150	150	140
14	180	160	150	140
30	190	160	150	150
60	220	180	160	150
90	250	200	180	180

03582000 - ELK RIVER ABOVE FAYETTEVILLE, TN

LOCATION.--Lat 35°08'04", long 86°32'23", Lincoln County, on right bank
100 feet downstream from highway bridge, 1.75 miles southeast of
Fayetteville, 4 miles upstream from Norris Creek, and at mile 93.9.

DRAINAGE AREA.--827 mi².

PERIOD OF RECORD.--1972-81.

REMARKS.--Flow regulated by Woods Reservoir (since 1952), and Tims Ford Lake
since December 1970.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	132	80	414	20	2,640
99.1	144	70	510	10	3,800
99	147	60	694	5	4,850
98	167	50	1,000	2	6,990
95	220	40	1,430	1	9,200
90	300	30	1,980	0.5	12,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	150	110	95	82
3	180	140	120	110
7	250	190	170	150
14	310	240	210	190
30	360	300	270	240
60	400	350	340	340
90	470	400	380	370

03582500 - ELK RIVER NEAR FAYETTEVILLE, TN

LOCATION.--Lat 35°08'10", long 86°35'15", Lincoln County, at old dam and powerhouse of Tennessee Electric Power Co., 2 miles southwest of Fayetteville, and at mile 88.4.

DRAINAGE AREA.--897 mi².

PERIOD OF RECORD.--1926-34.

REMARKS.--Diurnal fluctuations caused by powerplants above stations.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	102	80	290	20	2,020
99.1	108	70	409	10	3,430
99	110	60	573	5	5,390
98	129	50	774	2	9,370
95	171	40	1,050	1	14,000
90	207	30	1,430	0.5	20,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	160	110	94	78
3	170	120	100	85
7	180	130	110	92
14				
30				
60				
90				

03583000 - BRADSHAW CREEK AT FRANKEWING, TN

LOCATION.--Lat 35°11'31", long 86°50'43", Giles County, on downstream side of second pier from right abutment of bridge on U.S. Highway 64, 0.4 mile east of Frankewing, 2.2 miles downstream from Little Bradshaw Creek, and 10.5 miles east of Pulaski.

DRAINAGE AREA.--36.5 mi².

PERIOD OF RECORD.--1955-61; 1966-68.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	0	80	2.77	20	65.5
99.1	0	70	5.57	10	129
99	0	60	10.0	5	235
98	.02	50	17.2	2	482
95	.21	40	26.9	1	820
90	.72	30	40.5	0.5	1,200

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	0	0	0	0
3	0	0	0	0
7	0	0	0	0
14				
30				
60				
90				

03583300 - RICHLAND CREEK NEAR CORNERSVILLE, TN

LOCATION.--Lat 35°19'10", long 86°52'20", Marshall County, on left bank, on downstream end of pier of bridge on U.S. Highway 31A, 0.1 mile downstream from Corn Creek, 1.7 miles downstream from Louisville & Nashville Railroad bridge, 2.0 miles downstream from Town Creek, and 3.4 miles southwest of Cornersville.

DRAINAGE AREA.--47.5 mi².

PERIOD OF RECORD.--1962-68.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	0.81	80	3.82	20	82.3
99.1	.86	70	7.01	10	165
99	.87	60	11.3	5	354
98	1.01	50	18.3	2	725
95	1.25	40	29.9	1	1,140
90	1.88	30	49.7	0.5	1,590

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	0.6	0.2	0.2	0.1
3	.6	.3	.2	.2
7	.7	.3	.2	.2
14				
30				
60				
90				

03583500 - WEAKLEY CREEK NEAR BODENHAM, TN

LOCATION.--Lat 35°15'08", long 87°10'08", Giles County, on right downstream bank at wingwall of highway bridge, 1.6 miles northwest of Bodenham, 1.6 miles downstream from Muckle Creek, 4.9 miles upstream from mouth, and 8.7 miles northwest of Pulaski.

DRAINAGE AREA.--24.4 mi².

PERIOD OF RECORD.--1956-61; 1966-68.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	4.50	80	8.06	20	49.6
99.1	4.62	70	10.6	10	78.3
99	4.66	60	13.1	5	121
98	4.98	50	16.8	2	223
95	5.55	40	22.6	1	320
90	6.20	30	32.2	0.5	450

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	5.2	4.0	3.3	3.0
3	5.3	4.3	3.6	3.1
7	5.4	4.4	3.9	3.5
14				
30				
60				
90				

03584000 - RICHLAND CREEK NEAR PULASKI, TN

LOCATION.--Lat 35°12'51", long 87°06'05", Giles County, on right bank 1,200 feet upstream from bridge on U.S. Highway 64, 1 mile downstream from Weakley Creek, 4 miles west of Pulaski, and at mile 30.1.

DRAINAGE AREA.--366 mi².

PERIOD OF RECORD.--1935-75

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	18.0	80	61.8	20	771
99.1	19.8	70	91.5	10	1,410
99	20.3	60	131	5	2,350
98	24.3	50	195	2	4,340
95	31.4	40	304	1	6,000
90	41.1	30	485	0.5	8,770

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	24.5	16.9	14.3	12.7
3	25.3	17.4	14.7	13.0
7	27.2	18.5	15.6	13.7
14	30.7	20.8	17.4	15.1
30	39.2	26.1	21.4	18.4
60	54.9	34.7	27.6	22.9
90	66.1	42.9	35.0	29.8

03584500 - ELK RIVER NEAR PROSPECT, TN

LOCATION.--Lat 35°01'39", long 86°56'52", Giles County, on right bank
50 feet upstream from highway bridge, 1.1 miles downstream from
Richland Creek, 3.2 miles east of Prospect, 5.4 miles upstream from
Ford Creek, 7.9 miles upstream from Tennessee-Alabama State line, and
at mile 41.5.

DRAINAGE AREA.--1,784 mi².

PERIOD OF RECORD.--1905-07; 1920-52.

REMARKS.--Unregulated. See next page for present characteristics.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	150	80	445	20	4,020
99.1	175	70	640	10	7,200
99	180	60	940	5	11,900
98	200	50	1,400	2	19,800
95	240	40	1,920	1	24,900
90	290	30	2,710	0.5	31,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	236	171	141	118
3	247	182	152	130
7	258	190	161	139
14	274	200	168	144
30	313	221	183	157
60	397	264	215	182
90	492	323	262	221

03584500 - ELK RIVER NEAR PROSPECT, TN

LOCATION.--Lat 35°01'39", long 86°56'52", Giles County, on right bank
50 feet upstream from highway bridge, 1.1 miles downstream from
Richland Creek, 3.2 miles east of Prospect, 5.4 miles upstream from
Ford Creek, 7.9 miles upstream from Tennessee-Alabama State line, and
at mile 41.5.

DRAINAGE AREA.--1,784 mi².

PERIOD OF RECORD.--1972-81.

REMARKS.--Flow regulated by Woods Reservoir (since May 1952), and by Tims
Ford Lake since December 1970.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	260	80	733	20	5,000
99.1	288	70	1,000	10	7,600
99	294	60	1,460	5	12,100
98	347	50	2,100	2	19,500
95	430	40	2,790	1	25,500
90	520	30	3,670	0.5	32,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	260	200	180	170
3	330	270	250	240
7	410	350	330	320
14	500	410	370	340
30	550	440	400	370
60	640	570	450	410
90	800	610	530	470

03588000 - SHOAL CREEK AT LAWRENCEBURG, TN

LOCATION.--Lat 35°14'31", long 87°21'14", Lawrence County, on left bank at downstream side of highway bridge, 1,500 feet upstream from Crowson Creek, 1,800 feet downstream from Little Shoal Creek, 1.1 miles west of the courthouse in Lawrenceburg, and at mile 55.6.

DRAINAGE AREA.--55.5 mi².

PERIOD OF RECORD.--1933-34, 1968-81.

REMARKS.--About 5 ft³/s is diverted by the City of Lawrenceburg above the gage for water supply. No adjustments have been made for that diversion.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	20	80	35	20	120
99.1	20	70	41	10	180
99	21	60	49	5	320
98	22	50	59	2	650
95	25	40	72	1	1,100
90	29	30	89	0.5	1,400

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	23	20	19	17
3	24	21	19	18
7	25	22	21	20
14	27	23	21	20
30	29	25	23	22
60	32	27	24	23
90	36	29	27	25

03588400 - CHISHOLM CREEK AT WESTPOINT, TN

LOCATION.--Lat 35°08'04", long 87°31'45", Lawrence County, on downstream side of left pier of county road bridge 0.3 mile northeast of Westpoint, and 1.2 miles above mouth.

DRAINAGE AREA.--43.0 mi².

PERIOD OF RECORD.--1963-81.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	11	80	23	20	96
99.1	12	70	28	10	170
99	12	60	33	5	280
98	13	50	41	2	500
95	15	40	53	1	760
90	18	30	71	0.5	1,200

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	16	12	9.8	8.6
3	16	12	9.9	8.7
7	16	12	10	9.1
14	17	13	11	10
30	20	15	12	11
60	21	16	14	12
90	24	18	16	14

03588500 - SHOAL CREEK AT IRON CITY, TN

LOCATION.--Lat 35°01'27", long 87°34'44", Lawrence County, on downstream side near center of bridge on county road, 400 feet downstream from Holly Creek, 1,350 feet upstream from Louisville & Nashville Railroad bridge, 1,350 feet northeast of post office at Iron City, and at mile 22.0.

DRAINAGE AREA.--348 mi².

PERIOD OF RECORD.--1926-81.

REMARKS.--Prior to January 1951, diurnal fluctuation at low flow caused by powerplant near Lawrenceburg.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	77	80	160	20	790
99.1	82	70	190	10	1,300
99	83	60	240	5	2,100
98	95	50	310	2	3,700
95	110	40	410	1	5,500
90	130	30	560	0.5	7,500

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	105	80.7	69.7	61.3
3	108	84.9	74.1	66.0
7	113	89.6	79.0	71.0
14	120	94.8	83.7	75.4
30	133	104	92.1	83.3
60	147	114	102	93.3
90	162	126	112	103

03593300 - SNAKE CREEK NEAR ADAMSVILLE, TN

LOCATION.--Lat 35°13'11", long 88°25'36", McNairy County, on left bank at bridge on U.S. Highway 64, 1.7 miles downstream from Little Snake Creek and 2.3 miles southwest of Adamsville.

DRAINAGE AREA.--49.4 mi².

PERIOD OF RECORD.--1941-59.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	0	80	4.21	20	70.4
99.1	.30	70	6.77	10	137
99	.40	60	10.5	5	284
98	.65	50	16.3	2	658
95	1.30	40	24.4	1	1,000
90	2.24	30	41.7	0.5	1,400

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	1.4	0.5	0.2	0.0
3	1.5	.5	.2	.1
7	1.7	.6	.3	.1
14	2.0	.7	.3	.1
30	3.0	.9	.4	.2
60	4.3	1.8	1.2	.8
90	5.8	2.7	1.9	1.4

03593500 - TENNESSEE RIVER AT SAVANNAH, TN

LOCATION.--Lat 35°13'29", long 88°15'36", Hardin County, on left bank pier of bridge on U.S. Highway 64 at Savannah, 16.8 miles downstream from Pickwick Landing Dam, and at mile 189.9.

DRAINAGE AREA.--33,140 mi² (approximately).

PERIOD OF RECORD.--1946-81.

REMARKS.--Increasing regulation since 1936 as reservoirs have been built above station.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	11,000	80	30,300	20	72,400
99.1	13,000	70	35,000	10	110,000
99	13,500	60	38,900	5	154,000
98	16,400	50	44,000	2	215,000
95	21,000	40	49,800	1	263,000
90	25,000	30	57,700	0.5	290,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	14,000	9,200	6,200	4,000
3	19,300	13,600	10,700	7,000
7	23,400	17,000	13,700	9,800
14	25,600	18,800	15,200	12,300
30	27,500	22,100	19,400	17,200
60	30,800	25,800	23,500	21,700
90	32,300	27,300	24,900	23,100

03593800 - HORSE CREEK NEAR SAVANNAH, TN

LOCATION.--Lat 35°10'37", long 88°12'34", Hardin County, on right bank at bridge on county road, 1.2 miles northeast of Maddox and 4 miles southeast of Savannah.

DRAINAGE AREA.--104 mi².

PERIOD OF RECORD.--1940-70.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	22.6	80	47.4	20	184
99.1	23.9	70	54.4	10	281
99	24.3	60	63.2	5	431
98	26.4	50	77.1	2	787
95	31.9	40	97.6	1	1,230
90	38.5	30	132	0.5	1,900

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	34.7	27.1	23.7	21.0
3	35.1	27.6	24.1	21.5
7	35.9	28.1	24.5	21.7
14	36.9	28.9	25.2	22.4
30	39.5	31.0	27.0	24.0
60	43.4	34.7	30.8	27.8
90	46.4	37.2	33.0	29.8

03594040 - TURKEY CREEK NEAR SAVANNAH, TN

LOCATION.--Lat 35°13'45", long 88°11'38", Hardin County, on left bank at bridge on U.S. Highway 64, and 3.2 miles east of Savannah.

DRAINAGE AREA.--53.7 mi².

PERIOD OF RECORD.--1941-59.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	3.50	80	16.0	20	104
99.1	4.68	70	20.7	10	173
99	4.78	60	26.1	5	278
98	5.72	50	34.0	2	505
95	7.79	40	48.1	1	717
90	11.3	30	70.0	0.5	1,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	9.7	4.6	2.8	2.2
3	10	4.9	3.0	2.5
7	11	5.2	3.3	2.6
14	11	5.5	4.3	3.8
30	12	7.0	5.9	4.7
60	14	8.0	7.0	6.3
90	16	10	8.7	7.4

03594058 - WHITE OAK CREEK NEAR MILLEDGEVILLE, TN

LOCATION.--Lat 35°22'26", long 88°22'54", McNairy County, on left bank of White Oak Creek Drainage Ditch, 1 mile west of Milledgeville.

DRAINAGE AREA.--46.1 mi².

PERIOD OF RECORD.--1941-59.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	0.74	80	6.68	20	80.4
99.1	.90	70	9.49	10	151
99	.95	60	13.5	5	276
98	1.18	50	19.4	2	760
95	2.14	40	30.4	1	1,160
90	3.73	30	49.4	0.5	1,580

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	2.3	0.9	0.4	0.0
3	2.5	1.0	.4	.1
7	3.1	1.2	.6	.4
14	3.4	1.4	.8	.5
30	4.0	1.9	1.2	.8
60	6.7	3.8	2.8	2.2
90	8.3	5.3	4.3	3.7

03594120 - MIDDLETON CREEK NEAR MILLEDGEVILLE, TN

LOCATION.--Lat 35°24'59", long 88°21'40", Hardin County, on right bank
1,600 feet downstream from Big Hurricane Creek and 3.2 miles north of
Milledgeville.

DRAINAGE AREA.--45.5 mi².

PERIOD OF RECORD.--1941-59.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	0.40	80	7.83	20	65.3
99.1	.79	70	11.2	10	129
99	.90	60	15.1	5	260
98	1.60	50	20.2	2	636
95	2.79	40	29.8	1	959
90	4.53	30	44.0	0.5	1,450

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	3.1	1.0	0.5	0.2
3	3.3	1.1	.5	.2
7	3.9	1.4	.8	.3
14	4.5	1.8	1.0	.3
30	5.5	2.4	1.5	.6
60	7.3	3.8	2.7	2.0
90	9.8	5.5	4.0	3.1

03594160 - INDIAN CREEK NEAR CERRO GORDO, TN

LOCATION.--Lat 35°18'25", long 88°07'31", Hardin County, on left bank
3.5 miles east of Cerro Gordo, 1,800 feet below the mouth of Smith
Fork, at steel bridge known as "Upper Bridge."

DRAINAGE AREA.--201 mi².

PERIOD OF RECORD.--1941-59.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	12.0	80	53.2	20	478
99.1	15.9	70	70.4	10	750
99	16.4	60	96.7	5	1,190
98	21.4	50	138	2	2,070
95	29.4	40	206	1	3,150
90	37.6	30	317	0.5	4,270

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	27	15	11	8.4
3	28	15	11	8.4
7	28	16	11	8.7
14	30	17	13	9.8
30	35	21	16	13
60	43	28	23	19
90	51	33	27	23

03594415 - BEECH RIVER NEAR LEXINGTON, TN

LOCATION.--Lat 35°39'34", long 88°25'01", Henderson County, on left bank at downstream side of bridge on State Highway 20, 1.5 miles west of the courthouse in Lexington.

DRAINAGE AREA.--15.9 mi².

PERIOD OF RECORD.--1953-63.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	6.78	80	9.69	20	20.3
99.1	6.94	70	10.9	10	32.2
99	6.97	60	12.2	5	60.1
98	7.37	50	13.3	2	160
95	7.97	40	14.6	1	250
90	8.62	30	16.7	0.5	354

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	7.9	7.3	6.6	6.3
3	8.0	7.3	6.9	6.6
7	8.2	7.6	7.2	7.0
14	8.5	7.8	7.4	7.1
30	9.0	8.1	7.6	7.3
60	9.6	8.5	8.0	7.6
90	11	9.1	8.3	7.7

03594430 - HARMON CREEK NEAR LEXINGTON, TN

LOCATION.--Lat 35°38'16", long 88°21'15", Henderson County, on left bank at bridge on State Highway 20, 2 miles east of Lexington.

DRAINAGE AREA.--6.87 mi².

PERIOD OF RECORD.--1953-70.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	2.99	80	4.80	20	11.0
99.1	3.15	70	5.38	10	17.0
99	3.19	60	5.99	5	30.4
98	3.47	50	6.71	2	58.8
95	3.89	40	7.60	1	100
90	4.21	30	8.83	0.5	140

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	3.5	3.2	3.0	2.8
3	3.6	3.2	3.0	2.9
7	3.7	3.3	3.1	3.0
14	3.9	3.5	3.3	3.1
30	4.3	3.8	3.6	3.3
60	4.8	4.1	3.8	3.6
90	5.3	4.4	4.0	3.7

03594445 - BEECH RIVER NEAR CHESTERFIELD, TN

LOCATION.--Lat 35°37'26", long 88°16'22", Henderson County, on right bank at bridge on Chesterfield-Middleburg Road, 1 mile south of Chesterfield.

DRAINAGE AREA.--115 mi².

PERIOD OF RECORD.--1941-54, 1961-63.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	24.1	80	47.3	20	204
99.1	24.6	70	62.0	10	400
99	24.8	60	75.2	5	780
98	26.1	50	94.0	2	1,260
95	30.0	40	116	1	1,700
90	34.0	30	146	0.5	2,470

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	34	23	19	17
3	34	24	20	18
7	36	25	21	18
14	38	26	22	19
30	41	28	24	21
60	47	32	27	23
90	54	36	30	26

03594480 - TURKEY CREEK NEAR DECATURVILLE, TN

LOCATION.--Lat 35°34'30", long 88°08'20", Decatur County, on right bank
1 air mile upstream from bridge on Middleburg Road, 1.2 miles southeast
of Camp Ground Church, and 1.3 miles west of Decaturville.

DRAINAGE AREA.--8.40 mi².

PERIOD OF RECORD.--1953-73.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	0	80	0.30	20	9.36
99.1	0	70	.64	10	18.0
99	0	60	1.08	5	37.1
98	0	50	1.84	2	80.3
95	0	40	3.50	1	130
90	.06	30	5.85	0.5	201

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	0	0	0	0
3	0	0	0	0
7	0	0	0	0
14	0	0	0	0
30	.10	0	0	0
60	.20	0	0	0
90	.34	.10	0	0

03596000 - DUCK RIVER BELOW MANCHESTER, TN

LOCATION.--Lat 35°28'15", long 86°07'18", Coffee County, on right bank
 50 feet downstream from Powers Bridge, 2 miles southwest of Manchester,
 3.25 miles downstream from Little Duck River, 7 miles upstream from
 Crumpton Creek, and at mile 265.4.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--1935-81.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
 of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	13	80	28	20	215
99.1	15	70	34	10	380
99	15	60	45	5	650
98	18	50	64	2	1,270
95	20	40	95	1	1,870
90	23	30	144	0.5	2,850

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	17.6	13.5	11.7	10.4
3	18.3	14.0	12.1	10.7
7	19.2	14.7	12.7	11.2
14	20.5	15.8	13.7	12.1
30	22.6	17.9	15.9	14.4
60	25.4	20.0	17.8	16.4
90	28.6	22.2	19.8	18.2

03596500 - DUCK RIVER AT NORMANDY, TN

LOCATION.--Lat 35°27'26", long 86°15'25", Bedford County, on right bank
 50 feet downstream from county road bridge, 0.5 mile north of Normandy,
 1.7 miles downstream from Normandy Dam, 3.5 miles from L & N Railroad
 bridge, 7.5 miles upstream from Garrison Fork, and at mile 246.9.

DRAINAGE AREA.--208 mi².

PERIOD OF RECORD.--1922-31, 1973-75.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
 of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	41.8	80	81.8	20	517
99.1	43.3	70	103	10	879
99	43.7	60	134	5	1,340
98	47.7	50	182	2	2,490
95	57.0	40	254	1	3,860
90	64.7	30	355	0.5	5,580

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	61	52	48	45
3	61	52	48	45
7	61	52	48	45
14	63	53	49	45
30	70	58	52	48
60	77	62	54	49
90	87	67	58	50

03597000 - GARRISON FORK AT FAIRFIELD, TN

LOCATION.--Lat 35°33'59", long 86°17'00", Bedford County, near left bank on downstream side of center pier of highway bridge, 0.1 mile east of Fairfield, 0.6 mile downstream from Noah Fork, and 4.5 miles northeast of Wartrace.

DRAINAGE AREA.--66.3 mi².

PERIOD OF RECORD.--1954-58; 1966-68.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	1.61	80	9.92	20	107
99.1	1.77	70	15.3	10	206
99	1.82	60	22.7	5	395
98	2.24	50	32.7	2	770
95	4.29	40	48.3	1	1,490
90	6.21	30	72.2	0.5	2,100

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	3.3	1.3	0.7	0.3
3	4.0	2.1	1.5	1.0
7	4.5	2.5	1.6	1.5
14				
30				
60				
90				

03597500 - WARTRACE CREEK AT BELL BUCKLE, TN

LOCATION.--Lat 35°35'16", long 86°20'22", Bedford County, on downstream right bank wingwall of bridge on State Highway 82, 0.2 mile downstream from Kelly Creek, 0.9 mile east of Bell Buckle, 4.0 miles northeast of Fairfield, and 7.7 miles upstream from mouth.

DRAINAGE AREA.--16.3 mi².

PERIOD OF RECORD.--1954-61; 1966-75.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	0	80	0.57	20	29.0
99.1	0	70	1.63	10	60.7
99	0	60	3.64	5	118
98	0	50	6.47	2	239
95	.03	40	11.0	1	410
90	.15	30	17.3	0.5	640

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	0	0	0	0
3	0	0	0	0
7	0	0	0	0
14	.1	0	0	0
30	.3	.1	0	0
60	1.2	.3	.1	0
90	1.8	.4	.1	0

03598000 - DUCK RIVER NEAR SHELBYVILLE, TN

LOCATION.--Lat 35°28'49", long 86°29'57", Bedford County, on right bank
150 feet downstream from Sims Bridge, 2.1 miles upstream from Sugar
Creek, 2.2 miles west of Shelbyville, 2.9 miles downstream from Flat
Creek, and at mile 216.2.

DRAINAGE AREA.--481 mi².

PERIOD OF RECORD.--1935-47.

REMARKS.--Prior to 1948 diurnal fluctuation caused by powerplant upstream.

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	42.4	80	105	20	868
99.1	47.7	70	130	10	1,500
99	48.5	60	183	5	2,880
98	57.0	50	260	2	5,500
95	70.0	40	392	1	6,800
90	83.0	30	580	0.5	10,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	46	25	20	16
3	63	50	43	38
7	68	58	52	48
14	74	62	56	51
30	82	67	59	53
60	99	77	65	56
90	120	92	80	71

03598000 - DUCK RIVER NEAR SHELBYVILLE, TN

LOCATION.--Lat 35°28'49", long 86°29'57", Bedford County, on right bank
150 feet downstream from Sims Bridge, 2.1 miles upstream from Sugar
Creek, 2.2 miles west of Shelbyville, 2.9 miles downstream from Flat
Creek, and at mile 216.2.

DRAINAGE AREA.--481 mi².

PERIOD OF RECORD.--1949-76.

REMARKS.--

FLOW DURATION

Flow in cubic feet per second, which was equaled or exceeded for percentage
of time indicated.

Percentage	Discharge	Percentage	Discharge	Percentage	Discharge
99.5	59.0	80	129	20	1,130
99.1	65.0	70	170	10	1,900
99	66.5	60	226	5	3,130
98	71.1	50	330	2	5,640
95	81.0	40	500	1	9,200
90	97.0	30	735	0.5	13,000

LOW FLOW

Lowest average flow in cubic feet per second.

Period (consecutive days)	Recurrence interval (in years)			
	2	5	10	20
1	81.5	66.1	58.6	52.7
3	82.7	67.2	59.6	53.8
7	85.3	68.8	60.8	54.5
14	89.8	72.2	63.6	56.9
30	100	79.7	70.6	63.8
60	118	89.1	77.9	70.3
90	138	98.0	83.8	74.5