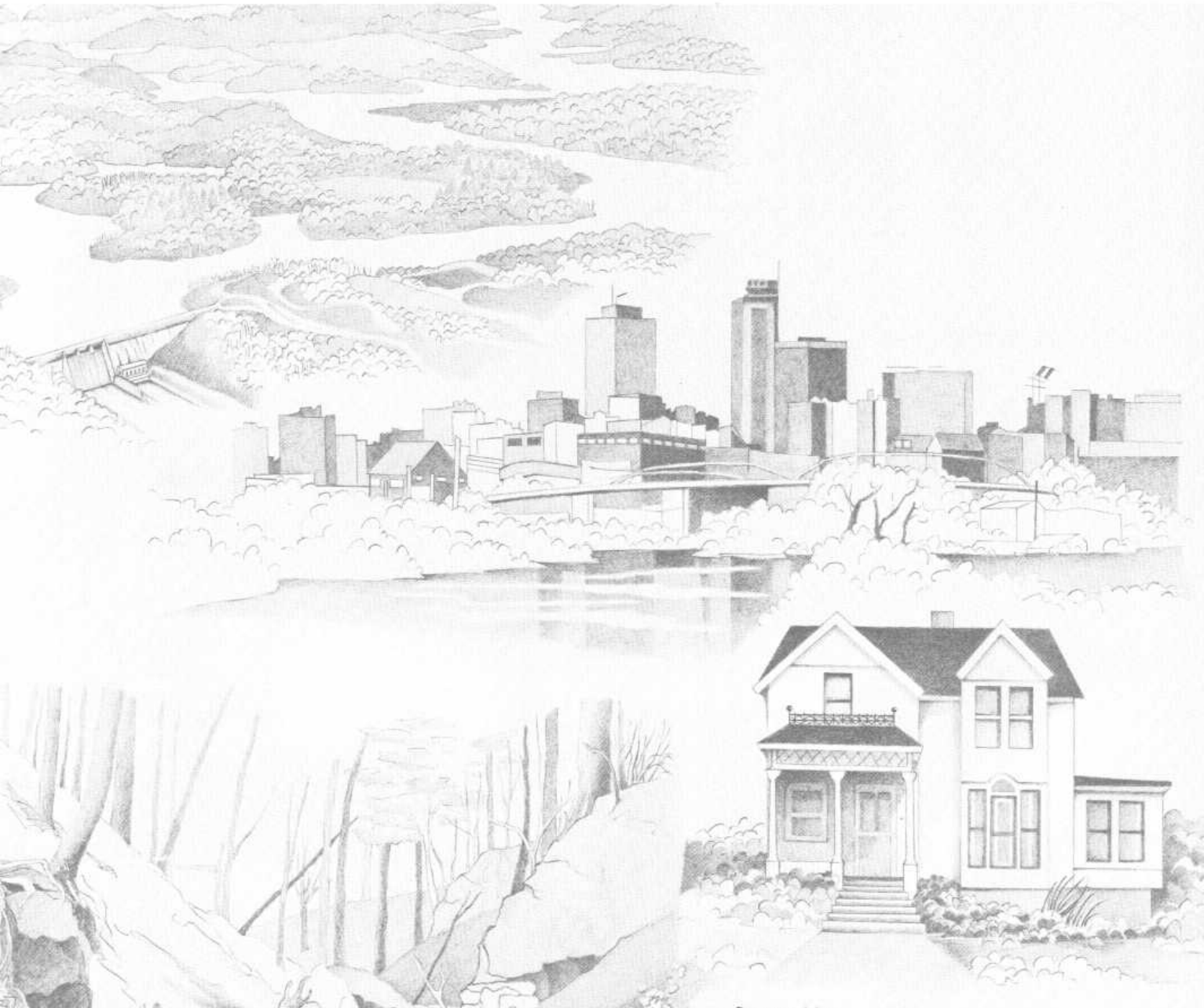


DROUGHT-RELATED IMPACTS ON MUNICIPAL AND MAJOR SELF-SUPPLIED INDUSTRIAL WATER WITHDRAWALS IN TENNESSEE--PART B



Prepared by
U. S. GEOLOGICAL SURVEY

in cooperation with
TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT, Division of Water Management
TENNESSEE VALLEY AUTHORITY, Office of Natural Resources and Economic Development,
Division of Air and Water Resources, Regional

Table 11.--Public water-supply facilities, French Broad River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Sevier</u> --Continued									
*Webb Creek UD	13D	500	69	Wells (3)	.144	.200	.050	100.0	Category 7. This UD's customers include a number of single family dwellings; some condominium complexes; and one inn containing 117 rooms. Storage capacity equals 68,000 gallons.
<u>Unicoi</u>									
*Erwin Utility Board	14A	12,292	3,512	Springs (3)	1.570	1.757	1.600	108.4	Category 8. Storage capacity equals 1,469,000 gallons.
**Temple Hill UD	14A	1,225	350	Erwin Utility Board	-	N/A	.075	61.2	Category 8. Storage capacity equals 150,000 gallons.
**Unicoi UD	14A	2,200	690	Erwin Utility Board	-	N/A	.195	88.6	Category 8. Storage capacity equals 220,000 gallons.
<u>Washington</u>									
*Jonesboro UD	14A	17,745	5,070	Nolichucky River (about 86.0) Spring (1)	109.000 .720	4.000	1.250 .275	85.9	Categories 3 and 7. Excessive turbidity and siltation problems at the water intake. Approximately 2,000,000 gallons of water is sold to Chuckey UD during the summer over a 2-month period for use at a pepper canning factory. Storage capacity equals 3,880,000 gallons.

Table 12.--Self-supplied commercial and industrial water users, French Broad River basin

[*System received all water from primary surface-water or ground-water source]

County, industry name (SIC code), and location by city	Tributary basin No.	Number of employees	Water source and intake location (river mile)	Source capacity (Mgal/d)	Average water use (Mgal/d)	Average consumptive water use (Mgal/d)	Additional information (principal products, existing problems, and so forth)
<u>Greene</u>							
*Ball Metal and Chemical Corporation (3356); Greenville	14A	200	Sinking Creek (2.6) Greenville WC	1.500 -	0.768 .220	-	Category 3. Product - Rolled zinc. Storage capacity equals 5,000,000 gallons.
*Nolichucky Sand Company (1442); Greenville	14A	15	Camp Creek (3.1) Well (1)	2.800 -	.960 .001	0.096	Categories 3 and 9. Product - Sand. Storage capacity equals 750,000 gallons.
*Parvin Sand Company (1442); Afton	14A	5	Nolichucky River (60.5) Chuckey UD - Greenville WC	141.000 -	.150 .001	.002	Category 3. Product - Sand.
*Pet Inc. (2023); Greenville	14B	132	Spring (1) Greenville WC	.634 -	.300 .034	.006	Category 7. Product - Condensed and evaporated milk products. Storage capacity equals 100,000 gallons.
*Tennessee Electro-minerals Corporation (3295); Greenville	14A	170	Holly Creek (5.4) Greenville WC	- -	.288 .001	.009	Source capacity data for Holly Creek is not available due to inadequate records. Product - Fused silica and magnesium oxide. Storage capacity equals 92,000 gallons.
<u>Hamblen</u>							
*American Enka Company (2823); Lowland	14B	3,500	Nolichucky River (7.6) Morristown WS	81.000 -	23.000 .043	.518	Category 3. Product - Manmade cellulose fibers. Occasional turbidity and flooding. Storage capacity equals 40,000,000 gallons.
<u>Jefferson</u>							
*Bush Brothers and Company (2033); Chestnut Hill	13D	500	Wells (6) Springs (3)	.576 .144	.348 .348	.073	Categories 7 and 8. Product - Canned vegetables. Storage capacity equals 8,140,000 gallons.
<u>Knox</u>							
*American Limestone Company (1422); Knoxville	13D	25	French Broad River (3.5) South Knoxville UD	132.000 -	.150 .002	.152	Category 1. The controlling upstream reservoir for this reach of the French Broad River is Douglas Dam located at river mile 32.3 on the French Broad River. Product - Limestone.

Table 12.--Self-supplied commercial and industrial water users, French Broad River basin--Continued

County, industry name (SIC code), and location by city	Tributary basin No.	Number of employees	Water source and intake location (river mile)	Source capacity (Mgal/d)	Average water use (Mgal/d)	Average consumptive water use (Mgal/d)	Additional information (principal products, existing problems, and so forth)
<u>Knox--Continued</u>							
*American Limestone Company (1422); Knoxville	13D	18	French Broad River (3.5) Knox - Chapman UD	132.000 -	0.360 .001	0.361	Category 1. The controlling upstream reservoir for this reach of the French Broad River is Douglas Dam located at river mile 32.3 on the French Broad River. Product - Limestone. Storage capacity equals 5,000 gallons.
*Modine Manufacturing Company (3443); Knoxville	13D	190	French Broad River (1.8) Knoxville UD	132.000 -	.200 .050	.001	Category 1. The controlling upstream reservoir for this reach of the French Broad River is Douglas Dam located at river mile 32.3 on the French Broad River. Product - Fabricated metal parts.
<u>Sevier</u>							
*Arnold Engineering Company (3264); Sevierville	13D	90	Little Pigeon River (7.0)	22.000	.600	-	Category 3. Product - Ceramic magnets. Occasional flooding, turbidity, and low streamflows along the Little Pigeon River.
*Cherokee Textile Mills (2231); Sevierville	13D	960	Little Pigeon River (one mile east of Sevierville on Highway 35)	20.000	.473	.147	Category 3. Product - Cloth.
<u>Unicoi</u>							
*Clinchfield Railroad including the Holston Land Company (4011); Erwin	14A	900-1,000	Manner Spring (1)	-	.120	.006	Category 9. Product - Railroad transportation. Storage capacity equals 400,000 gallons.
<u>Washington</u>							
*Moody Dunbar, Inc. (2033); Limestone	14A	50-350	Wells (3) Jonesboro UD	- -	.180 .020	.024	Category 9. Product - Canned pimentos and sweet peppers. Storage capacity equals 700,000 gallons.
*Moody Dunbar Pepper Plant, Inc. (2033); Limestone	14A	523	Wells (3) Jonesboro UD	- -	.230 .006	.004	Category 9. Employment data shown for Moody Dunbar's Pepper Plant represents average employment during the packing season which generally lasts about 15 to 20 weeks per year. During the remainder of the year, this facility is operated as a warehouse. Product - Canned pimentos and sweet peppers. Storage capacity equals 30,000 gallons.

Table 13.--Public water-supply facilities, Hatchie River basin

[*System received all water from primary surface-water or ground-water source; ** purchases part or all water from a primary (*) source; *** purchases part or all water from a secondary (**) source; **** purchases part or all water from a tertiary (***) source]

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Hardeman</u>									
*Bolivar WD	42B	7,500	2,100	Wells (4)		4.000	1.137	134.0	Category 7. Storage capacity equals 2,050,000 gallons.
**Spring Creek UD	42B	600	410	Bolivar WD		N/A	.067	111.0	Category 7. Storage capacity equals 87,000 gallons.
**Hornsby UD	42B	1,000	310	Bolivar WD		N/A	.065	65.0	Category 7. Storage capacity equals 150,000 gallons.
*Middleton WD	42A	654	291	Wells (2)		.432	.088	134.6	Category 7. Storage capacity equals 250,000 gallons.
*Toone WD+	42B	513	154	Wells (2)		.605	.175	341.1	Category 7.
*Western Mental Health Institute	42B	1,600	20	Wells (3)		.500	.217	135.6	Category 7. Storage capacity equals 890,000 gallons.
*Whiteville WS	42B	1,300	462	Wells (3)		.100	.100	76.9	Category 7. Storage capacity equals 150,000 gallons.
<u>Haywood</u>									
*Brownsville Utility Department	42C	9,500	3,624	Wells (4)		2.880	1.310	137.9	Category 7. Storage capacity equals 1,600,000 gallons.
*Stanton WD	42C	570	220	Wells (3)		.792	.092	161.4	Category 7. Storage capacity equals 300,000 gallons.
<u>Lauderdale</u>									
*Fort Pillow State Prison	42C	1,150	500	Wells (3)		.720	.435	378.3	Category 7. Storage capacity equals 400,000 gallons.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 13.--Public water-supply facilities, Hatchie River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Lauderdale--Continued</u>									
*Henning WD	42C	605	327	Wells (1)		.259	.090	148.8	Category 7. High iron content in raw water. Storage capacity equals 100,000 gallons.
*Ripley WD	42C	8,130	2,647	Wells (4)		3.000	1.522	185.6	Category 7. Storage capacity equals 1,700,000 gallons.
**Lauderdale County WS	42C	9,500	2,700	Wells (4) Ripley WD		.675	.400 .075	50.0	Category 7. Storage capacity equals 577,000 gallons.
<u>Madison</u>									
*Mercer UD+	42B	243	83	Wells (1)		N/A	.014	57.6	Category 7. Storage capacity equals 160,000 gallons.
<u>McNairy</u>									
*Bethel Springs WD	42A	1,000	350	Wells (2)		.720	.065	65.2	Category 7. Storage capacity equals 87,000 gallons.
*Selmer WD+	42A	9,000	3,000	Wells (6)		2.590	1.500	166.7	Category 7.
**Eastview UD+	42A	876	300	Selmer WD		N/A	.067	76.5	Category 7.
<u>Tipton</u>									
*Brighton WD	42C	992	370	Wells (2)		.216	.090	90.7	Category 7. Storage capacity equals 150,000 gallons.
*Covington WD	42C	7,500	2,397	Wells (5)		4.406	1.351	162.9	Category 7. Storage capacity equals 1,376,000 gallons.
*First UD of Tipton County	42C	6,234	1,781	Wells (4)		.840	.600	96.2	Category 7. Storage capacity equals 250,000 gallons.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 14.--Self-supplied commercial and industrial water users, Hatchie River basin

[*System received all water from primary surface-water or ground-water source]

County, industry name (SIC code), and location by city	Tributary basin No.	Number of employees	Water source and intake location (river mile)	Source capacity (Mgal/d)	Average water use (Mgal/d)	Average consumptive water use (Mgal/d)	Additional information (principal products, existing problems, and so forth)
<u>Hardeman</u>							
*Armira Corporation (3111); Bolivar	42B	255	Wells (3)		0.710	0.011	Category 7. Product - Finished leather. Storage capacity equals 1,000,000 gallons.
*Bolivar Sand Company (1442); Bolivar	42B	13	Bolivar Sand Pit		3.000	-	Category 7. Product - Sand. Storage capacity equals 39,099,500 gallons.
<u>Tipton</u>							
*Colonial Fiber Company (2661); Covington	42C	125	Wells (1)		.200	.050	Category 7. Product - Fiber Board.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 15.--Public water-supply facilities, Holston River basin

[*System received all water from primary surface-water or ground-water source; ** purchases part or all water from a primary (*) source;
 *** purchases part or all water from a secondary (**) source; **** purchases part or all water from a tertiary (***) source]

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Carter</u>									
*Elizabethton WD	15D	29,050	8,300	Big Hampton, Rockhouse Cave, and Valley Forge Springs (4)	7.200	7.200	4.800	159.9	Category 7. Storage capacity equals 6,750,000 gallons.
**North Elizabethton Water Cooperative	15D	1,200	300	Elizabethton WD	-	N/A	.040	33.3	Category 7. Storage capacity equals 100,000 gallons.
**Siam UD	15D	2,000	600	Elizabethton WD	-	N/A	.115	57.5	Category 7. Low water pressure due to inadequate storage and pumping capacity. Storage capacity equals 20,000 gallons.
*First UD - Carter County	15D	4,700	1,350	Campbell Spring (1)	1.500	.830	.650	125.5	Category 7. Occasional turbidity following periods of heavy rain and excessive wetness. Storage capacity equals 2,520,000 gallons.
**Blue Springs UD	15D	1,500	350	First UD - Carter County	-	N/A	.050	33.3	Category 7. Storage capacity equals 100,000 gallons.
*Hampton UD	15D	2,800	832	Hampton Spring (1)	3.020	.936	.560	137.5	Category 7. Storage capacity equals 500,000 gallons.
**South Elizabethton UD	15D	4,520	1,130	Hampton UD	-	N/A	.175	38.7	Category 7. Storage capacity equals 450,000 gallons.
*Hank Johnson Subdivision WS	15C	30	24	Little Milligan Spring (1)	-	.005	.001	33.3	Category 9. Storage capacity equals 30,000 gallons.
*Roan Mountain Water Company	15D	994	284	Spring (1) Wells (3)	- -	N/A	.012 .037	49.3	Category 9.

Table 15.--Public water-supply facilities, Holston River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Grainger</u>									
*Luttrell - Blaine - Corryton UD	16B	3,000	890	Springs (3)	-	0.432	0.145	48.3	Category 9. This UD's service area includes a part of Knox and Union Counties. Storage capacity equals 256,000 gallons.
<u>Hamblen</u>									
*Morristown WS	16A	33,250	9,500	Holston River, Cherokee Reservoir (75.3) Spring (1)	See additional information 0.550	10.000	4.067 1.743	125.9	Categories 5 and 8. Total storage in Cherokee Reservoir equals 393,000 acre-feet at normal minimum pool elevation of 1,020 feet above sea level. This provides adequate water to meet Morristown's water demands for more than 90 days. Storage capacity equals 9,000,000 gallons.
**Alpha - Talbott UD	16A	11,500	3,250	Morristown WS	-	N/A	.700	60.9	Categories 5 and 8. Alpha - Talbott UD also serves a part of Jefferson County. Storage capacity equals 640,000 gallons.
**Bean Station UD	16A	2,600	1,000	Morristown WS	-	N/A	.262	100.8	Categories 5 and 8. Storage capacity equals 500,000 gallons.
***Rutledge Water Works	16B	1,058	361	Bean Station UD	-	N/A	.097	91.7	Categories 5 and 8. Storage capacity equals 400,000 gallons.
**Russellville - Whitesburg UD	16A	7,400	2,450	Morristown WS	-	N/A	.533	62.6	Categories 5 and 8. Storage capacity equals 450,000 gallons.

Table 15.--Public water supply facilities, Holston River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Hamblen</u> --Continued									
***Bulls Gap UD	14B	1,030	283	Russellville - Whitesburg UD	-	N/A	0.070	68.0	Categories 5 and 8. This UD also serves a part of Hawkins County in the French Broad River basin. Storage capacity equals 250,000 gallons.
**Witt UD	16A	1,705	531	Morristown WS	-	N/A	.130	76.2	Categories 5 and 8. Storage capacity equals 235,000 gallons.
<u>Hawkins</u>									
*Camelot WS	16A	168	48	Well (1)	-	N/A	.014	83.3	Category 9. Storage capacity equals 317,000 gallons.
*First UD - Hawkins County	16A	12,600	3,600	Alexander Creek Lee Spring (1) Hamilton Spring (1)	1.600 .430 -	1.200	.450 .475 .150	83.9	Categories 3, 8, and 9. This system also provides backup water to the Surgoinsville UD. Storage capacity equals 1,250,000 gallons.
**New Canton UD	16A	280	80	First UD - Hawkins County	-	N/A	.018	64.3	Categories 3, 8, and 9.
*Lakemont UD	16A	160	40	Well (1)	-	.012	.006	37.5	Category 9. Storage capacity equals 12,000 gallons.
*Moorsburg UD	16A	630	180	Spring (1)	.125	.045	.025	39.7	Category 7. Storage capacity equals 263,000 gallons.
*Rogersville WS	16A	14,175	4,050	Big Creek (1.2)	1.500	2.000	1.135	57.4	Category 3. Storage capacity equals 1,600,000 gallons.
**Big Creek UD	16A	560	160	Rogersville WS	-	N/A	.043	53.6	Category 3. Storage capacity equals 100,000 gallons.

Table 15.--Public water-supply facilities, Holston River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Hawkins--Continued</u>									
***Surgoinville UD	16A	1,500	456	Spring (1) Big Creek UD	0.201 -	0.170	0.127 .013	93.3	Categories 3 and 7. Occasional turbidity problems. Storage capacity equals 350,000 gallons.
**Lakeview UD	16A	1,152	329	Rogersville WS	-	N/A	.052	45.1	Category 3.
**Persia UD	16A	2,261	646	Rogersville WS	-	N/A	.210	92.9	Category 3. Lack of storage facilities and water losses through leaks in the distribution system.
**Striggersville UD	16A	400	100	Rogersville WS	-	N/A	.017	42.5	Category 3.
<u>Jefferson</u>									
*Jefferson City WS	16A	13,500	1,927	Mossy Creek Spring (1) Well (1)	1.440 2.880	2.500	1.500 1.500	174.4	Categories 7 and 8. Additional water storage is needed. Storage capacity equals 2,000,000 gallons.
**New Market UD	16B	4,000	896	Jefferson City WS	-	N/A	.264	66.0	Categories 7 and 8.
**Shady Grove UD	13D	4,194	1,323	Jefferson City WS	-	N/A	.381	90.8	Categories 7 and 8. Shady Grove UD also serves a part of Jefferson County in the French Broad River basin. Storage capacity equals 200,000 gallons.
<u>Johnson</u>									
Brownlow WS	15C	299	108	Spring (1)	-	N/A	.017	56.9	Category 9.
*Carderview UD	15C	200	120	Mountain Streams (2) Well (1)	- -	N/A	.015 .002	85.0	Category 9. Occasional water-supply shortages. Storage capacity equals 132,000 gallons.

Table 15.--Public water-supply facilities, Holston River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Johnson--Continued</u>									
*Cold Springs WS ⁺	15C	27	9	Spring (1)	-	N/A	-	-	Category 9.
*Doe Valley WS	15C	60	20	Spring (1)	0.020	N/A	0.020	333.3	Category 7. Storage capacity equals 5,000 gallons.
*Harbin Hill Community WS	15C	49	14	Springs (2)	-	N/A	.002	40.8	Category 9. Occasional water-supply shortages during dry months. Storage capacity equals 20,000 gallons.
*Mountain City WS	15C	5,264	1,504	Springs (3)	.750	N/A	.800	152.0	Category 8. Storage capacity equals 1,650,000 gallons.
<u>Knox</u>									
*East Knox UD	16B	16,000	3,800	Holston River (9.4)	39.000	1.000	.750	46.9	Category 1. The controlling upstream reservoir for this reach of the Holston River is Cherokee Dam located at river mile 52.3 on the Holston River. Storage capacity equals 1,150,000 gallons.
*Northeast Knoxville UD	16B	13,500	4,000	Holston River, (9.6)	39.000	2.400	1.152	85.3	Category 1. The controlling upstream reservoir for this reach of the Holston River is Cherokee Dam located at river mile 52.3 on the Holston River. Storage capacity equals 1,700,000 gallons.
<u>Sullivan</u>									
*Bloomingdale UD	15B	11,200	3,200	Reedy Creek (11.2)	2.600	1.382	.590	52.7	Category 3. Storage capacity equals 8,300,000 gallons.

Table 15.--Public water-supply facilities, Holston River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
Sullivan--Continued									
Bluff City WS	15B	1,760	610	Spring (1)	.220	.300	.181	102.8	Category 7.
*Bristol WS	15B	36,000	9,457	South Fork Holston River (48.2)	12.800	10.000	5.000	120.4	Category 1. The controlling upstream reservoir for this reach of the South Fork Holston River is South Holston Dam located at river mile 49.8 on the South Fork Holston River. Storage capacity equals 15,100,000 gallons.
**Blountville UD	15B	7,500	2,235	Bristol WS Bristol - Bluff City UD	- -	N/A	.436 .128	75.2	Category 1. Storage capacity equals 400,000 gallons.
**Highway 11-W UD	15B	875	250	Bristol WS	-	N/A	.081	92.6	Category 1.
**Holston UD	15B	1,500	520	Bristol WS	-	N/A	.115	76.7	Category 1. Supply problems due to high elevations and leaks in the distribution system.
**Intermont UD	15B	300	114	Bristol WS	-	N/A	.016	53.3	Category 1.
*Bristol - Bluff City UD	15B	2,832	1,133	South Fork Holston River (35.6)	12.800	1.000	.937	176.2	Category 1. The controlling upstream reservoir for this reach of the South Fork Holston River is South Holston Dam located at river mile 49.8 on the South Fork Holston River. Storage capacity equals 2,000,000 gallons.
**South Bristol - Weaver Pike UD	15B	3,500	1,305	Bristol - Bluff City UD Bristol WS	- -	N/A	.235 .018	72.3	Category 1. Storage capacity equals 2,000,000 gallons.
**Tri-Cities/Sullivan UD	15B	823	235	Bristol - Bluff City UD	-	N/A	.075	91.1	Category 1. Storage capacity equals 250,000 gallons.

Table 15.--Public water-supply facilities, Holston River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Sullivan--Continued</u>									
*Chinquapin Grove UD	15B	1,680	480	Wildcat Springs (2)	0.209	0.208	0.155	92.3	Category 7. Storage capacity equals 120,000 gallons.
*Kingsport WS	15B	68,250	19,500	South Fork Holston River (6.4)	485.000	20.000	12.000	172.8	Category 1. The controlling upstream reservoir for this reach of the South Fork Holston River is Fort Patrick Henry Dam located at river mile 8.2 on the South Fork Holston River. Current storage capacity equals 8,000,000 gallons. An additional 5,650,000 gallons of storage are now being developed and will be available in February of 1984.
**Long Island UD	15B	350	142	Kingsport WS	-	N/A	.160	457.1	Category 1.
**Falls Branch UD	15B	2,100	600	Kingsport WS	-	N/A	.070	33.3	Category 1.
<u>Washington</u>									
*Johnson City PWD	15D	32,900	14,000	Watauga River (17.5)	72.000	16.000	8.000	290.0	Categories 1, 5, and 8. The controlling upstream reservoir for this reach of the South Fork River is Boone Dam located at river mile 18.6 on the Watauga River. Total storage in Fork Patrick Henry Reservoir equals 22,700 acre-feet at normal minimum pool elevation of 1,258 feet above sea level. This provides sufficient water to meet the system's demands for more than 90 days. Storage capacity equals 10,600,000 gallons.
				South Fork Holston River, Fort Patrick Henry Reservoir (14.3)	See additional information	1.750	.800		
				Unicoi Springs (3)	3.600	4.000	4.000		

Table 16.--Self-supplied commercial and industrial water users, Holston River basin

[*System received all water from primary surface-water or ground-water source]

County, industry name (SIC code), and location by city	Tributary basin No.	Number of employees	Water source and intake location (river mile)	Source capacity (Mgal/d)	Average water use (Mgal/d)	Average consumptive water use (Mgal/d)	Additional information (principal products, existing problems, and so forth)
<u>Carter</u>							
*North American Rayon Corporation (2823); Elizabethton	15D	1,300	Watauga River (26.0) Wells (4) Spring (1) Elizabethton WD	72.000 3.456 7.200 -	4.420 3.000 3.770 .023	-	Categories 1 and 7. The controlling upstream reservoir for this reach of the Watauga River is Wilbur Dam located at river mile 34.0 on the Watauga River. Product - Rayon. Gradual filling of the river channel with sand and debris at the intake point. Storage capacity equals 2,500,000 gallons.
<u>Hawkins</u>							
*ASG Industries, Inc. (3211); Kingsport (Greenland Plant)	16A	500	Holston River (127.0)	518.000	.500	-	Category 1. The controlling upstream reservoir for this reach of the Holston River is Fort Patrick Henry Dam located at river mile 8.2 on the South Fork Holston River. Product - Glass.
*Holliston Mills, Inc. (2789); New Canton	16A	500	Holston River (129.7) First UD - Hawkins County	518.000 -	.250 .015	0.021	Category 1. The controlling upstream reservoir for this reach of the Holston River is Fort Patrick Henry Dam located at river mile 8.2 on the South Fork Holston River. Product - Book binding materials. Storage capacity equals 250,000 gallons.
*Holston Defense Corporation, Plant A (2818) and Plant B (2892); Kingsport	Plant A - 15B Plant B - 16A	1,000	South Fork Holston River (6.0) Holston River (141.1)	485.000 518.000	17.304 50.267	.204	Category 1. The controlling upstream reservoir for these reaches of the South Fork Holston and Holston Rivers is Fort Patrick Henry Dam located at river mile 8.2 on the South Fork Holston River. Plant A is located in Kingsport in Sullivan County and Plant B is located about 5 miles west of downtown Kingsport in Hawkins County. Product - Explosives. Considerable fluctuation in river level and temperature due to water holdup and discharge from Fort Patrick Henry Dam on the South Fork Holston River. Storage capacity equals 15,000,000 gallons.
<u>Jefferson</u>							
*ASARCO, Inc. (3333); New Market (New Market Mine)	16B	157	Elmore Spring New Market UD	- -	.592 .020	.125	Category 9. Product - Zinc. Storage capacity equals 15,640,000 gallons.

Table 16.--Self-supplied commercial and industrial water users, Holston River basin--Continued

County, industry name (SIC code), and location by city	Tributary basin No.	Number of employees	Water source and intake location (river mile)	Source capacity (Mgal/d)	Average water use (Mgal/d)	Average consumptive water use (Mgal/d)	Additional information (principal products, existing problems, and so forth)
<u>Jefferson--Continued</u>							
*ASARCO, Inc. (3333); Mascot (Young Mine and Mill)	16B	242	Beaver Creek New Market UD	.600 -	.200 .009	.043	Category 9. Product - Zinc. Occasional low pressure in the water supply lines from the New Market UD. Storage capacity equals 20,000,000 gallons.
*U.S. Steel Corporation (1031); Jefferson City	16A	200	Well (Underground Mine) Jefferson WS	- -	5.405 .013	0.283	Category 9. Product - Zinc.
<u>Knox</u>							
*Knoxville By-Products (2077); Knoxville	16B	45	Lyon Creek (0.3) East Knox UD	0.270 -	.290 .020	-	Category 4. Product - Animal by-products. Storage capacity equals 50,000 gallons.
<u>Sullivan</u>							
*Mead Papers, Kingsport Plant (2621); Kingsport	15B	1,100	South Fork Holston River (2.3) Kingsport WS	485.000 -	12.000 1.300	.132	Category 1. The controlling upstream reservoir for this reach of the South Fork Holston River is Fort Patrick Henry Dam located at river mile 8.2 on the South Fork Holston River. Product - Paper. Storage capacity equals 3,000,000 gallons.
*Penn-Dixie Industries, Inc. (3241); Kingsport	15B	139	South Fork Holston River (2.5) Kingsport WS	485.000 -	.550 .470	.301	Category 1. The controlling upstream reservoir for this reach of the South Fork Holston River is Fort Patrick Henry Dam located at river mile 8.2 on the South Fork Holston River. Product - Portland cement.
*Tennessee Eastman Company (2824, 2819, 2821) Kingsport	15B	12,100	South Fork Holston River (4.85)	485.000	454.300	.100	Category 1. The controlling upstream reservoir for this reach of the South Fork Holston River is Fort Patrick Henry Dam located at river mile 8.2 on the South Fork Holston River. Products - Chemicals, fibers, and plastics.

Table 17.--Public water-supply facilities, Memphis Area basin

[*System received all water from primary surface-water or ground-water source; ** purchases part or all water from a primary (*) source;
 *** purchases part or all water from a secondary (**) source; **** purchases part or all water from a tertiary (***) source]

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Fayette</u>									
*Galloway WD	43	804	213	Wells (2)		0.432	0.055	37.2	Category 7. Storage capacity equals 250,000 gallons.
*La Grange WD	44A	218	70	Wells (3)		.187	.002	9.6	Category 7. Storage capacity equals 9,000 gallons.
*Moscow WD	44A	499	200	Wells (2)		.144	.060	120.2	Category 7. Storage capacity equals 75,000 gallons.
*Oakland WD	43	1,350	300	Wells (2)		.432	.125	92.6	Category 7. Storage capacity equals 200,000 gallons.
*Rossville WS	44A	400	140	Wells (2)		.720	.070	175	Category 7. Storage capacity equals 75,000 gallons.
*Somerville WD	43	2,203	1,008	Wells (4)		1.000	.650	276.9	Category 7. Storage capacity equals 800,000 gallons.
<u>Hardeman</u>									
*Grand Junction WD	44A	1,050	300	Wells (3)		.864	.665	427.4	Category 7. Storage capacity equals 325,000 gallons.
**Saulsbury UD	44A	700	150	Grand Junction WD		N/A	.216	309.0	Category 7.
<u>Shelby</u>									
*Arlington WD	43	1,786	400	Wells (2)		1.440	.350	196.0	Category 7. Storage capacity equals 750,000 gallons.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 17.--Public water-supply facilities, Memphis Area basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Shelby--Continued</u>									
*Bartlett-Ellendale WD	44B	9,296	2,800	Wells (2)		1.620	.971	104.4	Category 7. High level iron content in well water. Storage capacity equals 250,000 gallons.
*Collierville WD	44B	7,800	2,508	Wells (4)		5.500	1.416	181.5	Category 7. Inadequate main sizes during droughts. Storage capacity equals 700,000 gallons.
*Lakeland Development Corporation	43			Wells (1)			1.200		Category 7. Water usage for this facility involves the pumping of water to maintain a constant lake level.
*Memphis Light, Gas and Water Division	44B 44C	600,000	192,966	Wells (143)		184.000	115.000	191.7	Category 7. Storage capacity equals 98,000,000 gallons.
**Germantown WD	44B	22,400	6,396	Wells (5) Memphis Light, Gas and Water Division		6.000	2.801 .100	129.5	Category 7. Inadequate storage capacity and distribution line sizes. Storage capacity equals 2,575,000 gallons.
*Millington WD	43	9,500	2,300	Wells (4)		2.000	.981	103.2	Category 7. Storage capacity 1,300,000 gallons.
<u>Tipton</u>									
*Mason WD	43	590	220	Wells (2)		.180	.062	105.1	Category 7. Inadequate storage capacity. Storage capacity equals 56,500 gallons.
*Munford WD	43	1,800	800	Wells (2)		.648	.368	186.1	Category 7. Inadequate storage capacity during peak summer periods. Storage capacity equals 135,000 gallons.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 17.--Public water-supply facilities, Memphis Area basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Tipton--Continued</u>									
**Atoka WD	43	400	150	Munford WD		N/A	.033	82.5	Category 7. Inadequate storage capacity. Storage capacity equals 100,000 gallons.
*Poplar Grove UD	43	5,500	1,500	Wells (2)		1.000	0.350	63.6	Category 7. Inadequate storage capacity. Storage capacity equals 500,000 gallons.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 18.--Self-supplied commercial and industrial water users, Memphis Area basin

[*System received all water from primary surface-water or ground-water source]

County, industry name (SIC code), and location by city	Tributary basin No.	Number of employees	Water source and intake location (river mile)	Source capacity (Mgal/d)	Average water use (Mgal/d)	Average consumptive water use (Mgal/d)	Additional information (principal products, existing problems, and so forth)
<u>Fayette</u>							
*Alpha Chemical Corporation (2821); Collierville	44B	46	Wells (3)		0.295	0.019	Category 7. Plant is located west of Collierville in Fayette County. Product - Polyester resins.
*Troxel Manufacturing Company Inc. (3751, 3317); Moscow	44A	400	Wells (2)		.204	.004	Category 7. Product - Steel tubing and saddles. Storage capacity equals 100,000 gallons.
*United Foods, Inc. (2037); Rossville	44A	240	Wells (5)		1.440	-	Category 7. Product - Pack and warehouse frozen vegetables.
<u>Shelby</u>							
*Agricultural Chemical Group (2873); Memphis	43	277	Wells (3)		1.980	.020	Category 7. Product - Ammonia and urea.
*Ashland-Warren Inc. (2951); Memphis	41D	240	Wells (1)		.180	-	Category 7. Service - Asphalt construction. Storage capacity equals 1,000,000 gallons.
*Buckeye Cellulose Corporation (2821); Memphis	44B	860	Wells (8) Memphis Light, Gas and Water Division		10.000 .180	.192	Category 7. Product - Cellulose. Storage capacity equals 300,000 gallons.
*Cargill, Inc. (2075); Memphis	41D	107	Wells (3) Memphis Light, Gas and Water Division		3.888 .234	.007	Category 7. Product - Soybean meal and oil.
*Celotex Corporation (2952); Memphis	44B	100	Wells (1) Memphis Light, Gas and Water Division		.153 .008	.008	Category 7. Product - roofing.
*Certainteed Corporation (3079); Eads	44B	88	Wells (1)		.115	-	Category 7. Product - Polyvinyl chloride (PVC) pipe.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 18.--Self-supplied commercial and industrial water users, Memphis Area basin--Continued

County, industry name (SIC code), and location by city	Tributary basin No.	Number of employees	Water source and intake location (river mile)	Source capacity (Mgal/d)	Average water use (Mgal/d)	Average consumptive water use (Mgal/d)	Additional information (principal products, existing problems, and so forth)
Shelby--Continued							
*Chromium Mining Smelting Corporation (3313); Memphis	43	250	Wells (2) Memphis Light, Gas and Water Division		0.650 .050	0.040	Category 7. Product - Ferro alloys.
*Delta Refining Company (2911); Memphis	44C	281	Wells (1) Memphis Light, Gas and Water Division		.668 .081	.183	Category 7. Product - Petroleum fuels. Well water contains high levels of iron.
*E. I. Dupont De Nemours and Company (2819, 2821, and 2869); Memphis	43	940	Wells (9) Memphis Light, Gas and Water Division		16.800 .110	.003	Category 7. Product - Hydrogen peroxide; acrylic sheeting; methylmethacrylate; sodium perborate; hydrogen, potassium, and sodium cyanides; sodium metal; chloride; acrylonitrile; "oxone" monopersulfate compound. Storage capacity equals 1,000,000 gallons (fire water).
*Firestone Tire and Rubber Company (3011 and 3031); Memphis	44B	(confidential)	Wells (7) Memphis Light, Gas and Water Division		3.636 .128	.294	Category 7. Plant is scheduled to close early in 1983. Product - Tires and reclaimed rubber. Storage capacity equals 536,000 gallons.
*General Electric Memphis Lamp Plant (3647); Memphis	44C	500	Wells (1) Memphis Light, Gas and Water Division		.350 .032	-	Category 7. Product - Miniature lamps.
*Humko Products, Inc. (2079); Memphis	44B	500	Wells (5) Memphis Light, Gas and Water Division		1.368 .077	-	Category 7. Product - Edible oil. Storage capacity equals 100,000 gallons (Fire protection).
*Humko Products - Chemical Plant (2899); Memphis	44B	275	Wells (1) Memphis Light, Gas and Water Division		.936 .197	.001	Category 7. Product - Fatty acids.
*Kellogg Company (2043); Memphis	44C	800	Wells (1) Memphis Light, Gas and Water Division		.999 .010	.495	Category 7. Product - Ready to eat cereals. Storage capacity equals 10,000 gallons.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 18.--Self-supplied commercial and industrial water users, Memphis Area basin--Continued

County, industry name (SIC code), and location by city	Tributary basin No.	Number of employees	Water source and intake location (river mile)	Source capacity (Mgal/d)	Average water use (Mgal/d)	Average consumptive water use (Mgal/d)	Additional information (principal products, existing problems, and so forth)
Shelby--Continued							
*Kimberly Clark Corporation (2647); Memphis	44B	1,350	Wells (6) Memphis Light, Gas and Water Division		6.200 .023	.014	Category 7. Product - Paper products. Storage capacity equals 250,000 gallons.
*Mid American Industries (3079); Memphis	41D	45	Wells (2) Memphis Light, Gas and Water Division		0.144 .067	-	Category 7. Product - Plastic pipes.
*Memphis Stone and Gravel Company (1442); Arlington	43	9	Wells (1) Ponds (1)		.100 1.000	0.143	Category 7. Product - Stone and gravel. Storage capacity equals 181,812,500 gallons.
*Pulvair Corporation (2879); Millington	43	150	Wells (1) Millington WD		.180 .012	.002	Category 7. Product - Grind, blend, and package herbicides and pesticides.
*Quaker Oats Company (2869); Memphis	44B	220	Wells (4) Memphis Light, Gas and Water Division		2.938 .011	.094	Category 7. Product - Furfuryl alcohol. Storage capacity equals 268,000 gallons.
*Ralston Purina Company - Protein Division (2075, 2824); Memphis	44C	160	Wells (3) Memphis Light, Gas and Water Division		1.343 .040	.181	Category 7. Product - Soy protein isolate.
*Joseph Schlitz Brewing Company (2082); Memphis	44C	600	Wells (5)		2.466	.359	Category 7. Product - Beer. Storage capacity equals 100,000 gallons.
*Tri-State Industries, Inc. (1442); Memphis	44B	4	Ponds (1)		1.000	-	Category 7. Product - Mortar sand. Storage capacity equals 4,887,400 gallons.
*Valley Products Company (2841); Memphis	44C	30	Wells (2) Memphis Light, Gas and Water Division		.100 .035	-	Category 7. Product - Soap.
*Velsicol Chemical Corporation (2879); Memphis	44B	300	Wells (4) Memphis Light, Gas and Water Division		2.300 .200	.003	Category 7. Product - Pesticides. Storage capacity equals 100,000 gallons.

Recharge rate is about 0.6 (Mgal/d)/mi².
 Aquifer supply is adequate to meet demand.

Table 19.--Public water-supply facilities, Obion-Forked Deer River basin

[*System received all water from primary surface-water or ground-water source; ** purchases part or all water from a primary (*) source; *** purchases part or all water from a secondary (**) source; **** purchases part or all water from a tertiary (***) source]

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Carroll</u>									
*Atwood WD+	39A	1,044	400	Wells (3)		0.230	0.127	121.6	Category 7.
*Cedar Grove UD	40B	822	509	Wells (2)		.217	.069	83.9	Category 7. Excess iron in raw water. Storage capacity equals 100,000 gallons.
*Huntingdon WD	39A	4,300	1,648	Wells (3)		1.385	.550	127.9	Category 7. Storage capacity equals 750,000 gallons.
*McKenzie WD	39A	5,500	2,000	Wells (3)		3.000	.600	109.1	Category 7. Storage capacity equals 800,000 gallons.
*McLemoresville WD	39A	309	150	Wells (2)		.100	.035	113.3	Category 7. Storage capacity equals 100,000 gallons.
*Trezevant WD	39A	1,000	415	Wells (2)		.100	.085	85.0	Category 7. Storage capacity equals 150,000 gallons.
<u>Chester</u>									
*Henderson WD	40A	4,500	1,725	Wells (5)		1.000	.670	131.7	Category 7. Treatment plant is being expanded to 2,000 Mgal/d. Storage capacity equals 870,000 gallons.
<u>Crockett</u>									
*Alamo WD	40B	2,500	1,101	Wells (4)		.750	.745	298.0	Category 7. Storage capacity equals 300,000 gallons.
*Bells Public UD	40B	1,571	636	Wells (2)		.576	.214	136	Category 7. Storage capacity equals 175,000 gallons.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 19.--Public water-supply facilities, Obion-Forked Deer River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Crockett</u> --Continued									
*County-Wide UD	40B	7,500	2,137	Wells (7)		2.052	.500	66.7	Category 7. Inadequate storage capacity. Storage capacity equals 650,000 gallons.
*Crockett Mills UD+	40D	753	280	Wells (2)		0.864	0.050	66.4	Category 7. Storage capacity equals 100,000 gallons.
*Friendship WC	40D	600	230	Wells (3)		.518	.090	150.0	Category 7. Storage capacity equals 100,000 gallons.
*Maury City WD	40C	883	384	Wells (2)		.173	.080	90.6	Category 7. Storage capacity equals 75,000 gallons.
<u>Dyer</u>									
*Dyersburg Suburban Consolidated UD	40D	7,500	1,889	Wells (3)		1.037	.520	50.7	Category 7. Inadequate storage capacity. Storage capacity equals 300,000 gallons.
**Northwest Dyersburg UD	40D	2,625	750	Dyersburg Suburban Consolidated UD		N/A	.133	50.5	Category 7. Excess iron in water. Storage capacity equals 180,000 gallons.
*Dyersburg WD	40D	15,340	5,400	Wells (4)		6.400	3.500	221.3	Category 7. Storage capacity equals 3,500,000 gallons.
**East Dyersburg UD	40D	1,140	412	Dyersburg WD		N/A	.100	87.7	Category 7. Storage capacity equals 55,000 gallons.
*Newbern WD	39E	6,000	2,247	Wells (6)		2.664	.732	121.9	Category 7. Storage capacity equals 1,220,000 gallons.
*Trimble WD	39E	700	400	Wells (2)		.300	.150	214.3	Category 7. Storage capacity equals 100,000 gallons.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 19.--Public water-supply facilities, Obion-Forked Deer River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Gibson</u>									
*Bradford WD	39A	1,000	435	Wells (3)		0.864	0.250	250.0	Category 7. Inadequate storage capacity, pumping, and treatment facilities. Effort is being made to upgrade facilities with FHA and EPA assistance. Storage capacity equals 50,000 gallons.
*Dyer WD	40B	2,500	1,050	Wells (3)		.720	.375	150.0	Category 7. Storage capacity equals 600,000 gallons.
*Gibson County Municipal Water District	40B	15,000	1,700	Wells (12)		1.841	.500	33.3	Category 7. Storage capacity equals 600,000 gallons.
*Gibson WD+	40B	467	164	Wells (2)		.792	.041	87.8	Category 7. Storage capacity equals 50,000 gallons.
*Humboldt WD	40B	11,000	3,981	Wells (4)		3.456	1.000	90.9	Category 7. Storage capacity equals 800,000 gallons.
*West State UD+	40B	949	333	Wells (2)		.245	.110	115.9	Category 7. Storage capacity equals 100,000 gallons.
*Medina WD	40B	750	353	Wells (2)		.288	.062	82.7	Category 7. Storage capacity equals 15,000 gallons of treated water and 5,000 gallons of untreated water.
*Milan Department of Public Utilities	40B	8,800	3,545	Wells (3)		2.880	1.300	147.7	Category 7. An additional 1,000,000 gallons of overhead storage capacity are needed. Storage capacity equals 1,350,000 gallons.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 19.--Public water-supply facilities, Obion-Forked Deer River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Gibson--Continued</u>									
*Rutherford WD	39A	1,375	600	Wells (2)		0.612	0.175	127.3	Category 7. Storage capacity equals 175,000 gallons. An additional 100,000 gallons of storage is now under construction.
*Trenton WD	40B	4,686	1,842	Wells (3)		3.500	.775	164.6	Category 7. Storage capacity equals 850,000 gallons.
<u>Henry</u>									
*Henry WS	39B	350	150	Wells (2)		.160	.100	285.7	Category 7. Storage capacity equals 30,000 gallons.
<u>Lake</u>									
*Reelfoot UD	39D	Unknown	214	Wells (2)		.302	.146	Unknown	Category 7. Storage capacity equals 130,000 gallons.
*Reelfoot Lake State Park	39D	100	50	Wells (1)		.050	.020	200.0	Category 7. Excessive hardness and high iron content in raw water. Storage capacity equals 69,000 gallons.
*Ridgely WD	39D	1,800	700	Wells (2)		.720	.249	138.3	Category 7. Storage capacity equals 175,000 gallons.
*Tiptonville WD	39D	3,000	929	Wells (3)		1.391	.750	232.7	Category 7. Corrosive raw and treated water. Inadequate storage capacity. Storage capacity equals 600,000 gallons.
**Proctor City UD+	39D	348	120	Tiptonville WD		N/A	.052	149.4	Category 7.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 19.--Public water-supply facilities, Obion-Forked Deer River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Lauderdale</u>									
*Gates WD	40C	700	263	Wells (2)		.190	.050	71.4	Category 7. Storage capacity equals 100,000 gallons.
*Halls WD	40C	3,984	1,667	Wells (3)		0.792	0.363	91.2	Category 7. High iron content in raw water. Storage capacity equals 900,000 gallons.
<u>Madison</u>									
*Jackson Utility Division	40A	50,110	18,225	Wells (18)		20.000	8.600	165.1	Category 7. Raw water has high iron content and low pH. Storage capacity equals 14,500,000 gallons.
**Beech Bluff UD	40A	3,500	900	Jackson Utility Division		N/A	.600	171.4	Category 7. Storage capacity equals 150,000 gallons.
**Spring Creek UD	40B	1,500	500	Jackson Utility Division		N/A	.180	120.5	Category 7. Storage capacity equals 250,000 gallons.
**Pinson UD+	40A	1,022	350	Henderson WD		N/A	.087	85.1	Category 7.
<u>Obion</u>									
*Elbridge UD	39A	4,000	868	Wells (2)		.300	.260	50.0	Category 7. Storage capacity equals 150,000 gallons.
*Hornbeak UD+	39E	1,171	411	Wells (3)		.233	.170	44.7	Category 7. Storage capacity equals 100,000 gallons.
*Kenton WD	39A	2,000	661	Wells (2)		.500	.240	100.0	Category 7. Storage capacity equals 225,000 gallons.
*Obion WD	39E	1,942	700	Wells (3)		.252	.080	47.0	Category 7. Storage capacity equals 200,000 gallons.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².

Table 19.--Public water-supply facilities, Obion-Forked Deer River basin--Continued

County and facility name	Tributary basin No.	Population served	Number of connections	Water source and intake location (river mile)	Source capacity (Mgal/d)	Plant design capacity (Mgal/d)	Average water use (Mgal/d)	Gross per capita water use (gal/d)	Additional information (existing problems, and so forth)
<u>Obion--Continued</u>									
**Samburg UD+	39D	698	245	Reelfoot UD		N/A	.068	97.4	Category 7. Storage capacity equals 100,000 gallons.
*South Fulton WD	39C	4,800	1,594	Wells (2)		0.650	0.475	99.0	Category 7. Storage capacity equals 635,000 gallons.
*Troy WD	39E	1,100	615	Wells (3)		.720	.220	200.0	Category 7. Inadequate storage capacity. Storage capacity equals 150,000 gallons.
*Union City WD	39C	16,000	5,200	Wells (4)		5.184	2.300	141.3	Category 7. Storage capacity equals 2,575,000 gallons.
**Reelfoot WA	39C	735	210	Union City WD		N/A	.039	52.8	Category 7.
<u>Weakley</u>									
*Dresden WD	39B	3,000	1,094	Wells (2)		.500	.400	133.3	Category 7. Storage capacity equals 900,000 gallons.
*Gleason WD	39B	1,540	550	Wells (2)		1.440	.300	194.8	Category 7. Storage capacity equals 320,000 gallons.
*Greenfield WD	39B	2,099	953	Wells (3)		2.592	.350	166.8	Category 7. Storage capacity equals 160,000 gallons.
*Martin WD	39B	11,200	2,962	Wells (4)		3.000	1.300	116.1	Category 7. Storage capacity equals 1,099,200 gallons.

Aquifer supply is adequate to meet demand. Recharge rate is about 0.6 (Mgal/d)/mi².